Inland

HAYLINER 1000

OPERATOR'S MANUAL AND PARTS LISTS

Manufactured by:
Inland Steel & Forgings Ltd.
675 Washington Avenue
Winnipeg, Manitoba R2K 1M4
Canada
Phone: (204) 667-7854 Fax: (204) 669-2599
Website: http://www.inland.ca
Email: info@inland.ca

30047 (98-1)

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SAFETY

SAFETY ALERT SYMBOL:

This safety alert symbol indicates important safety messages in this manual and on safety signs on the bale carrier.

This symbol means: **ATTENTION !**

BECOME ALERT !

YOUR SAFETY IS INVOLVED !

Carefully read and follow the safety message accompanying this symbol.

Why is SAFETY important to you? THREE BIG REASONS:

- ACCIDENTS DISABLE AND KILL
- ACCIDENTS COST
- ACCIDENTS CAN BE AVOIDED

SIGNAL WORDS:

Note the use of the signal words DANGER, WARNING, and CAUTION with safety messages. The appropriate signal word for each message has been selected using the following guidelines:

⚠ DANGER — An immediate and specific hazard or forbidden practice which WILL result in severe personal injury or death if the message is not followed.

⚠ WARNING — A specific hazard or unsafe practice which COULD result in severe personal injury or death if the message is not followed.

⚠ CAUTION — Unsafe practice which COULD result in personal injury if the message is not followed, or a reminder of good safety practices.

SAFETY SIGNS:

The safety signs reproduced below appear on the bale carrier at the locations listed. Make sure all safety signs are clearly legible. Signs that have become illegible should be replaced. New signs can be purchased from your dealer or directly from the manufacturer. If new parts are installed, make sure that the appropriate signs are in place, if applicable.

When affixing new signs, clean the area where they are to be applied, remove the backing paper, and apply directly in original location.

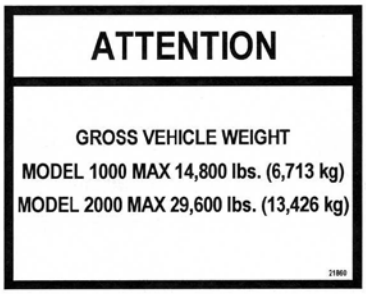
DRUM GUARD

DRUM GUARD

SUBFRAME (over TANDEM AXLES)

PUSHER

BALE LIFT ARM



LEFT OUTSIDE CARRIER BEAM (front)

LEFT OUTSIDE CARRIER BEAM (rear)

ROLLBAR

CHAIN GUARD

GENERAL SAFETY PRECAUTIONS:

- Always read operator's manual and familiarize yourself with new equipment before operating.
- Do not let inexperienced operators run this equipment.
- Do not remove shields or guards.
- Do not service or clean equipment while it is operating.
- Relieve all hydraulic pressure from systems before servicing or inspecting.
- Periodically inspect valves, hydraulics hoses and fittings for leakage.
- Obey all local laws when transporting equipment on roads or highways.

SPECIFICATIONS

DIMENSIONS:

Length: 43' (13.1 m)
Deck Length: 36' (11.0 m)
Width: 8' 6" (2.6 m)
Weight (empty): 4400 lbs. (1995 kg)

CAPACITY:

GVW: 14800 lbs. (6713 kg)
8 - 4' bales
7 - 5' bales

TIRES:

11L x 15 - 6 ply, max. load 3120 lbs. at 60 psi, rib implement, load range D
6 bolt hubs with twine guards
Heavy duty wheels

CONTROL HANDLE:

Power: 12v
Fuse: 10 amp

HYDRAULICS:

Two double acting auxiliary circuits required
LIFT CYLINDER: 3" bore x 16" stroke - 24" closed center with restrictor
TILT CYLINDER: 3" bore x 10" stroke - 18" closed center with restrictor

TRACTOR:

60 hp minimum

HITCH WEIGHTS:

Frame assembled (no forks): 520 lbs.
Frame assembled with standard forks: 665 lbs.
Frame assembled with rotating forks: 930 lbs.

WARRANTY

Inland Steel & Forgings Ltd. warrants its products to be free from defects in material and workmanship under normal use for a period of one year from the date of purchase by the original purchaser and 90 days from the date of purchase by a commercial operation.

The warranty will be limited to the replacement or repair of parts by the factory. This warranty will not apply if the parts have been altered, misused or involved in an accident. All claims must be processed through the dealer where purchase was made and must include serial number of the machine, date of purchase, part number, and an explanation of the problem.

Unless otherwise stated, parts requiring repair must be kept until the warranty claim has been approved.

The labor costs for replacing parts under warranty will be credited at a rate determined by Inland.

All components not manufactured by Inland (such as wheels, valves, motors, tires, hydraulic hoses, etc.) will be covered by the original manufactures' warranties.

All claims must be made within 30 days of mechanical breakdown. Inland reserves the right to require parts sent to its factory prepaid. If warranty applies, freight will be paid by Inland.

Dealer:_____

Date Purchased:_____

Serial Number:_____

ASSEMBLY INSTRUCTIONS

The bale carrier is usually shipped fully assembled at the manufacturing plant. However, some components may have been dismantled to reduce shipping costs and it is normally the dealer's responsibility to complete assembly. If your unit has not been fully reassembled, please follow the assembly instructions outlined below.

CAUTION: Make sure area is clear of obstructions, well lit, and has sufficient room for safe assembly.

- Before installing TANDEM AXLES coat inside of axle bearings with grease and slide together with TANDEM AXLE LOCATOR onto AXLE BEAM. Lock LOCATOR in place.

- Bolt FRONT BRACE to underside of SUBFRAME using 1/2 x 1-1/2" grade 5 bolts.

- Bolt REAR BRACE to underside of SUBFRAME and REAR CROSSMEMBER using 1/2 x 1-1/2" grade 5 bolts.

- Bolt CENTER BRACE to FRONT & REAR BRACES using 1/2 x 3" bolts and a flatwasher on top of CENTER BRACE.

- Bolt ROLLBAR to left side of FRONT and SECOND CROSSMEMBER using 1/2 x 1-1/2" bolts.

- Bolt SMV BRACKET to left side of REAR CROSSMEMBER using existing 3/8 x 2" bolts.

- Connect RIGHT BALE LIFT ARM to FRONT and SECOND CROSSMEMBER using LIFT ARM PIN and secure with 3/8 x 2-1/2" bolt. Slide LEFT and RIGHT BALE FORKS onto BALE LIFT ARM and secure with 5/8 x 6" bolts with the heads forward. Position FORKS to suit bale. It is recommended that the outside BALE

FORK be positioned at the end of BALE LIFT ARM and the inner BALE FORK about 36" from the end.

CAUTION: Use the LIFT ARM SAFETY CHAIN to secure the BALE LIFT ARM in the raised position FOR TRANSPORT. Make sure the CHAIN LATCH is in place to prevent CHAIN from dislodging.

- Two remote outlets are required to operate the bale carrier. One outlet controls the MOTOR and the second outlet controls the other functions through the SOLENOID VALVE (see the Hydraulic Layout).

- Mount CONTROL HANDLE to the tractor hydraulic lever that controls the HYDRAULIC CYLINDERS. Connect wiring to SOLENOID VALVE and to battery. The red wire attaches to the positive terminal of the battery. See wiring schematic

Contact your dealer if there are any details not clearly understood.

CAUTION: When transporting on public roadways use amber flashers day or night. Do not tow over 20 mph (32 km/h) if loaded weight is 1.5 times the weight of the towing unit.

OPERATION

YOUR RESPONSIBILITIES AS AN OWNER/OPERATOR:

CAUTION:

1. It is your responsibility to read and understand this manual completely before operating the bale carrier. Contact your dealer if an instruction is not clear to you.

2. Follow all safety messages in the manuals and on safety signs on the machine.

3. Remember that YOU are the key to safety. Good safety practices protect you and the people around you.

4. Before allowing anyone to operate the machine, for however short a time or distance, make sure they have been instructed in its safe and proper use.

5. Review the manual and all safety related items with all operators annually.

6. Be alert for other operators not using recommended procedures or not following safety precautions. Correct these mistakes immediately, before an accident occurs.

7. Maintain the bale carrier correctly. Be sure all controls are functioning properly before use.

8. Do not modify or remove shields. Unauthorized modifications may impair the function and/or safety and affect machine life.

9. The safety information given in this manual does not replace safety codes, insurance needs, or laws governing your area. Be sure your machine meets the standards set by these regulations.

TO THE NEW OPERATOR:

It's natural for an operator to be anxious to get started with a new machine. Please take the time to familiarize yourself with the bale carrier by reading this manuals and all safety signs before attempting operation. Study the operating procedures so you will know what to expect.

ATTACHING BALE CARRIER TO TRACTOR:

CAUTION: Shut off tractor, engage parking brake and remove key before working around hitch.

CAUTION: Never attach bale carrier to rear axle or three point hitch arms. Use only the drawbar and make sure tractor size is adequate and drawbar is capable of supporting the torque whether empty or loaded.

Adjust CLEVIS to suit tractor drawbar height. With the bale carrier on level ground the BALE FORKS should be about 2" above the ground when the BALE LIFT ARM is level.

Offset tractor drawbar hitch to right hand side.

Using the torque jack, raise torque to align with hitch pin. Position tractor and secure with locking type drawbar pin (use approved hitch pin with mechanical retainer).

Route SAFETY CHAIN around the adjustable hitch weldment, around drawbar support and back hook. IMPORTANT: Adjust CHAIN length to remove all slack except what is needed for turns.

Do not use intermediate support on drawbar as attaching point.

Store SAFETY CHAIN off the ground when not in use. If safety chain is damaged in any way, contact your dealer for a replacement.

If tractor is equipped with adjustable flow control, set flow to CYLINDERS to about

10 gpm. NOTE: Connect quick couplers to tractor remote outlets so that tractor graphics correspond with cylinder movement.

Connect lighting coupler, if so equipped.

SETTING UP:

The wheels on the right side should be moved out until the FRAME does not lift when the first bale is loaded. Any excess AXLE BEAM can be cut off to make it easier to go through gates. If AXLE BEAM is cut, the inner BEAM must be re-welded.

CABLE tension is critical. A loose CABLE will not track true and may destruct. On a new CABLE, check tension after each load for the first six loads. With the machine unloaded adjust tension until the lower CABLE clears the CROSSMEMBERS. After initial break-in check CABLE tension frequently.

Cable damage due to neglect is not covered by warranty.

LOADING:

DANGER: Make sure area is clear before lowering BALE LIFT ARM. Failure to do so could result in serious injury or death.

Lower BALE LIFT ARM to ground. Drive forward until BALE FORKS are under bale and the bale hits BALE LIFT ARM. Raise BALE LIFT ARM until bale rolls off arm and onto CARRIER BEAMS. **AVOID BOTTOMING LIFT CYLINDER ON EACH STROKE AS THIS WILL CAUSE PREMATURE FAILURE OF CYLINDER.**

Start PUSHER and move bale far enough to the rear to provide room to load another bale. Return PUSHER all the way to the front. There is a hydraulic bypass to the motor when the PUSHER hits the front stop. Continue loading bales until bale carrier is fully loaded.

CAUTION:

To avoid overbalancing the load do not move bales to rear until ready to load the next bale.

The bale carrier is designed to handle the majority of dry round bales but the specified GVW of 14,800 pounds **must not be exceeded**.

Heavy, wet or sticky bales may require hydraulic pressures higher than some tractors can deliver. Contact your dealer for possible solutions.

UNLOADING:

DANGER: Make sure area is clear before unloading. Failure to do so could result in serious injury or death.

To unload tilt CARRIER BEAMS (the optional TAIL GATE will drop down automatically). Push bales off with PUSHER. Driving forward at the same time as unloading will keep the bales in a neat row. When amber reflector on inside of CARRIER BEAM becomes visible the PUSHER is 26" from end of CARRIER BEAM. Stop PUSHER and drive forward. The last bale will fall off and the PUSHER can be returned to the forward position ready for another load.

CAUTION: Do not run PUSHER all the way to the end, the resulting shock load may cause damage to driveshaft of the CABLE DRUM and cable.

If PUSHER requires excessive force to unload bales we recommend that the CARRIER BEAMS and GUIDE RAIL be painted with "Slip-Plate" lubricant available from your dealer.

Additional torque may be obtained by replacing the 14 tooth DRIVE SPROCKET with an 11 tooth #60 - 1" bore sprocket. This will provide approximately 20% greater torque

to CABLE DRUM and may be necessary if tractor pressure is low.

CAUTION: If bale carrier is equipped with optional lighting kit, turn on flashing lights when transporting on public roadways. Do not transport on public roads after dark unless so equipped. Obey local regulations regarding road transport.

MAINTENANCE

Inspect hydraulic hoses, fittings, connections and hydraulic parts at the beginning of each season for wear, leaks and tightness. Replace any damaged or worn hoses. Make sure hoses have sufficient clearance and do not rub. Check all bolts for tightness after the first 10 hours and every 50 hours thereafter.

Inspect and tighten chains and sprockets after the first 10 hours and every 50 hours thereafter.

Inspect CABLE and PULLEY at the start of each season. Replace frayed or worn CABLES. The CABLE should be cleaned and lubricated with a dry type wire rope lubricant.

Replace PULLEY HOLDER WITH PULLEY if there is excessive wobble in the pulley.

All grease fittings should be lubricated before operating the bale carrier at the start of the season and daily during the season. There are fourteen grease fittings to lubricate:

- At both ends of each HYDRAULIC CYLINDER (4 fittings).
- Bushing at right end of FRONT CROSSMEMBER (1 fitting).
- Bushing at right end of SECOND CROSSMEMBER (1 fitting).
- On PUSHER (1 fitting) and 1 oil fitting on each 4" pulley.
- At FRAME end of both HITCH BEAMS (2 fittings).
- On TANDEM AXLES (4 fittings).
- In PULLEY HOLDER at rear of machine (1 fitting - lubricate daily).

The PULLEY CENTER PIN is provided with a grease zerk for lubrication. Lubricate daily.

The wheel bearings should be inspected and re-packed annually. When reinstalling

the wheels, the HUB BOLTS should be torqued to 125 ft-lbs. (note: the valves should be facing away from the HUBS). A thread locking compound such as Locktite 271 is recommended for the HUB BOLTS.

The CABLE DRUM bearings are sealed bearings and normally do not require greasing.

To prevent rust wipe top of CARRIER BEAMS with an oily rag after each day's service. Repaint with "Slip-Plate" at end of season to prevent rust.

CABLE REPLACEMENT:

Please note that replacement CABLES must have a minimum ultimate breaking strength of 14,400 lbs. Follow the installation instructions outlined below.

- Position PUSHER about 18" from front of GUIDE RAIL and prevent PUSHER from sliding forward.

- Remove DRUM GUARD and wrap CABLE 9-1/2 times around CABLE DRUM starting from non-sprocket bottom side and bring off top of CABLE DRUM 1-1/4" from sprocket side flange (see Figure 1).

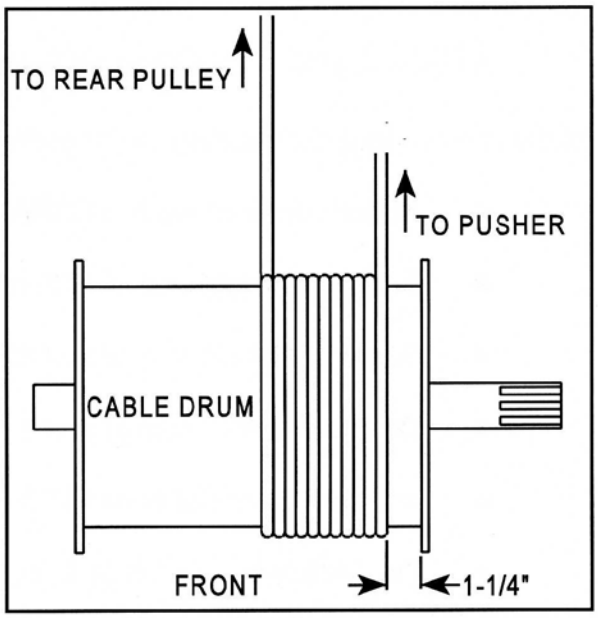


Figure 1 - CABLE DRUM

- Insert this end of CABLE at bottom of 4" pulley on PUSHER, pull CABLE around to the top of this pulley, then insert CABLE at top of pulley on CABLE TIGHTENER BRACKET and pull it around to the bottom of this pulley (see Figure 2). Form loose end of CABLE into a U-shape, insert through narrow end of holder on PUSHER and secure

with WEDGE.

- Pull CABLE tight. Check that rear PULLEY HOLDER WITH PULLEY is in its maximum forward position and wrap long end of CABLE around this pulley.

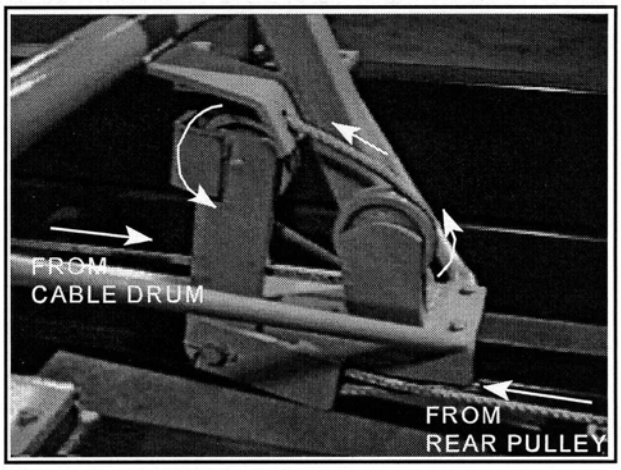


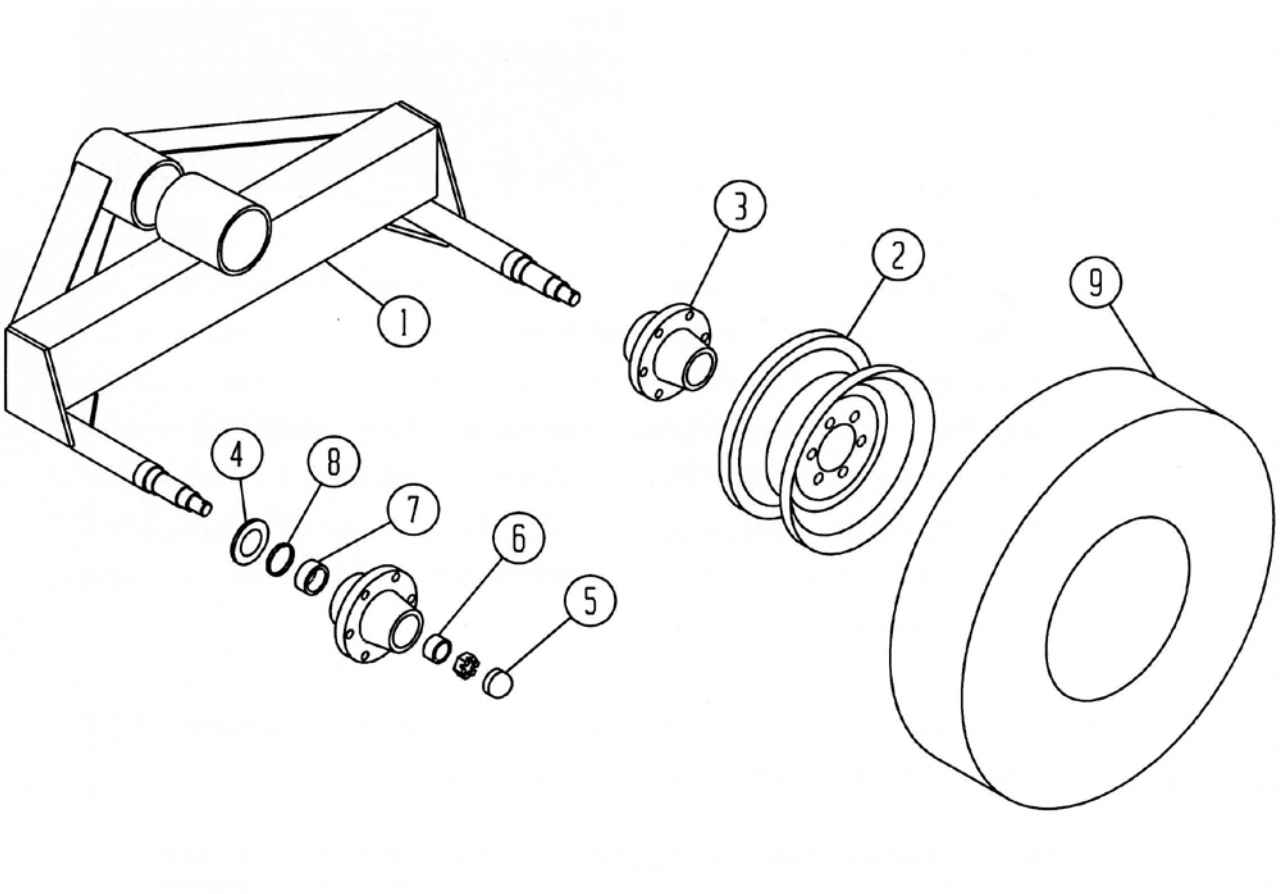
Figure 2 - CABLE installation

- Place bracket of CABLE INSTALLATION TOOL (optional) on rear of CABLE TIGHTENER BRACKET, pass cable through holder on other end of TOOL and secure with WEDGE. Tighten CABLE by screwing in bolt on end of TOOL. Form loose end of CABLE in U-shape, insert through holder in CABLE SWIVEL and secure with WEDGE. The free end of the CABLE must be at the bottom of the CABLE SWIVEL with WEDGE and HOLDER to the inside (see Figure 2). Adjust cable tension until CABLE SWIVEL slips onto pin on CABLE TIGHTENER BRACKET. Secure CABLE SWIVEL with flatwasher and cotter pin and remove TOOL.

- Check that rear PULLEY clears GUIDE RAIL and adjust tension until CABLE clears CROSSMEMBERS. Reinstall DRUM GUARD.

CAUTION: CABLE tension is <u>CRITICAL</u>. A loose CABLE will not track true and may destruct. On a new CABLE, check tension after each load for the first six loads. With the machine unloaded adjust tension until the lower CABLE clears the CROSSMEMBERS. After initial break-in check CABLE tension frequently.

TANDEM AXLE

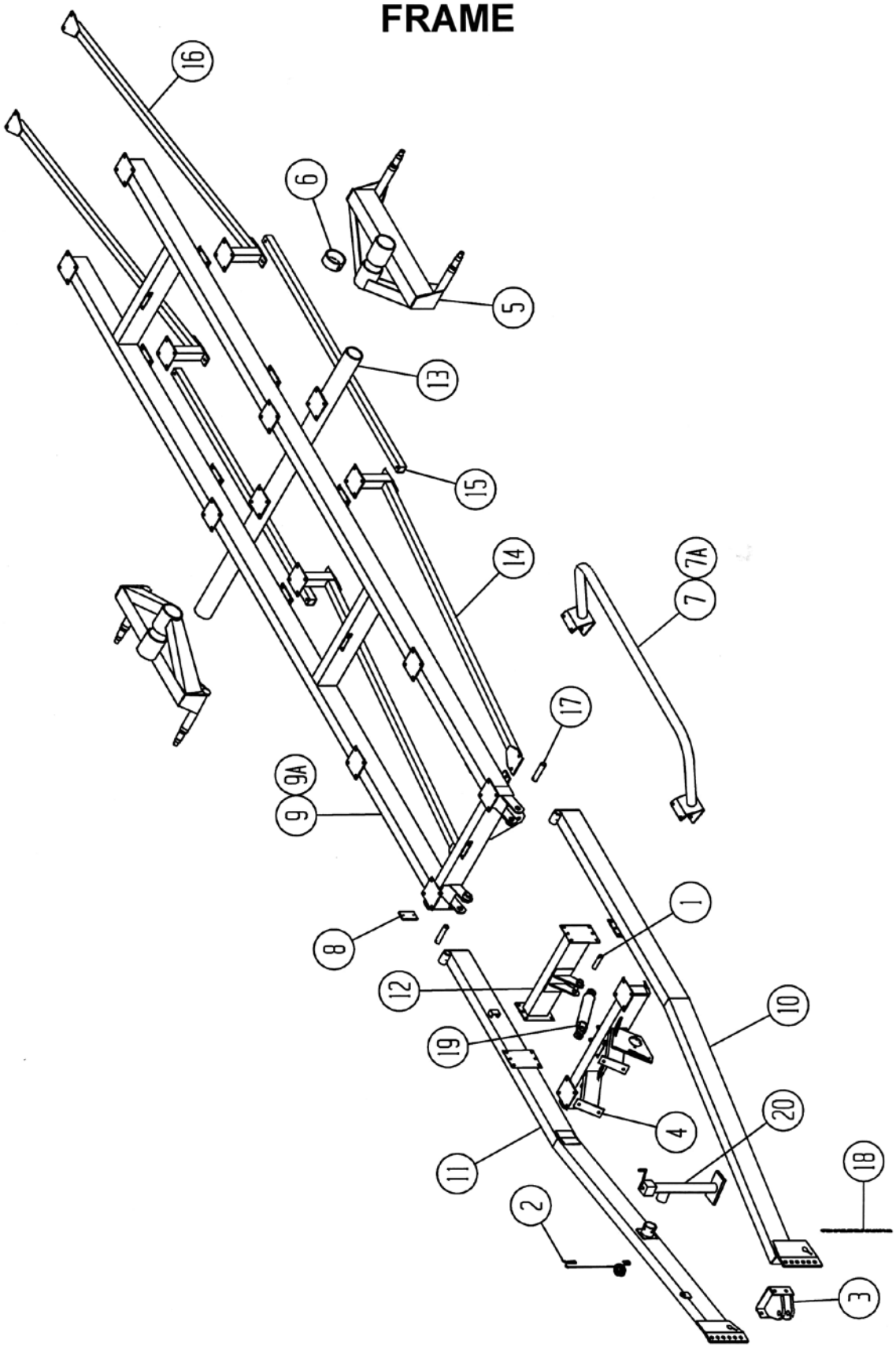


TANDEM AXLE PARTS LIST

DWG #	PART #	DESCRIPTION	QTY
1	C2406-00	TANDEM AXLE	2
2	20029	15 x 8 - 6 BOLT RIM 85 PSI	4
3	20045	6 BOLT WHEEL HUB	4
4	20045-01	SHIELD	4
5	20059	HUB CAP	4
	20071	9/16" WHEEL BOLT	24
6	967205	OUTER BEARING	4
7	967208	INNER BEARING	4
8	20321	OIL SEAL	4
9	21645	11L x 15 TIRE	4

NOTE: Part #20038-01 single ended spindle for item 1

FRAME

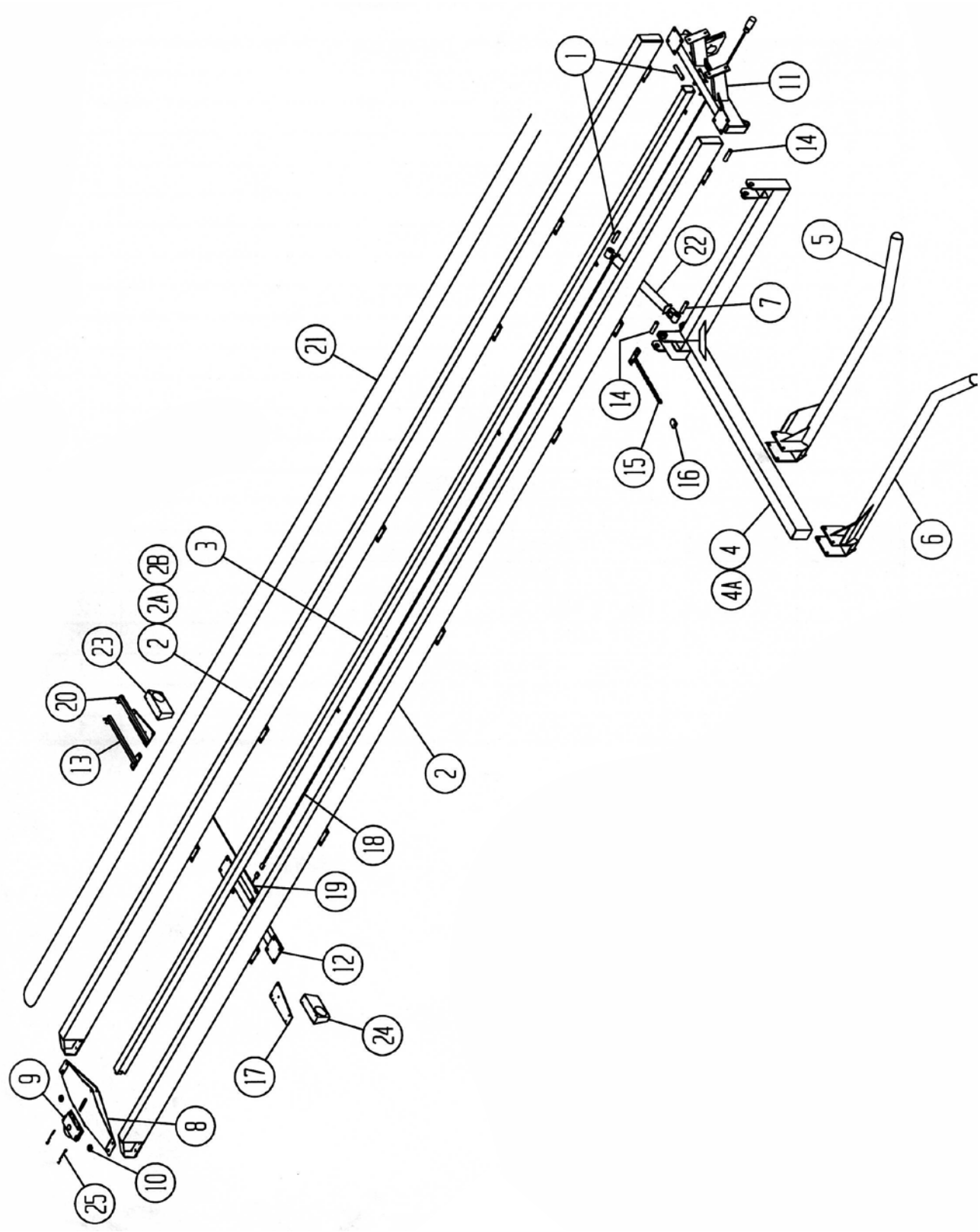


FRAME PARTS LIST

DWG #	PART #	DESCRIPTION	QTY
1	E2345-00	SHORT CYLINDER PIN	1
2	B2363-00	HOSE HOLDER	1
3	B2369-00	HITCH	1
4	B2400-00	FRONT CROSSMEMBER	1
5	C2406-00	TANDEM AXLE	2
6	B2407-00	TANDEM AXLE LOCATOR	2
7	B2411-00	ROLLBAR	1
7A	21841	HYDRAULIC OIL SAFETY DECAL	1
8	E2413-00	ARM CUSHION	1
9	B2435-00	SUBFRAME	1
9A	21858	TIRE INFLATION DECAL	1
10	B2436-00	LEFT HITCH BEAM	1
11	B2437-00	RIGHT HITCH BEAM	1
12	B2438-00	HITCH CROSSMEMBER	1
13	B2439-00	AXLE BEAM	1
14	B2440-00	FRONT BRACE	2
15	B2441-00	CENTER BRACE	2
16	C2442-00	REAR BRACE	2
17	E2445-00	LIFT ARM PIN	2
18	21441	SAFETY CHAIN (20000 lbs.)	1
19	26006	3 x 10" HYDRAULIC CYLINDER	1
20	31041	CROWN JACK 7TM - 10-0	1

NOTE: Part #20038-01 single ended spindle for item 5

CARRIER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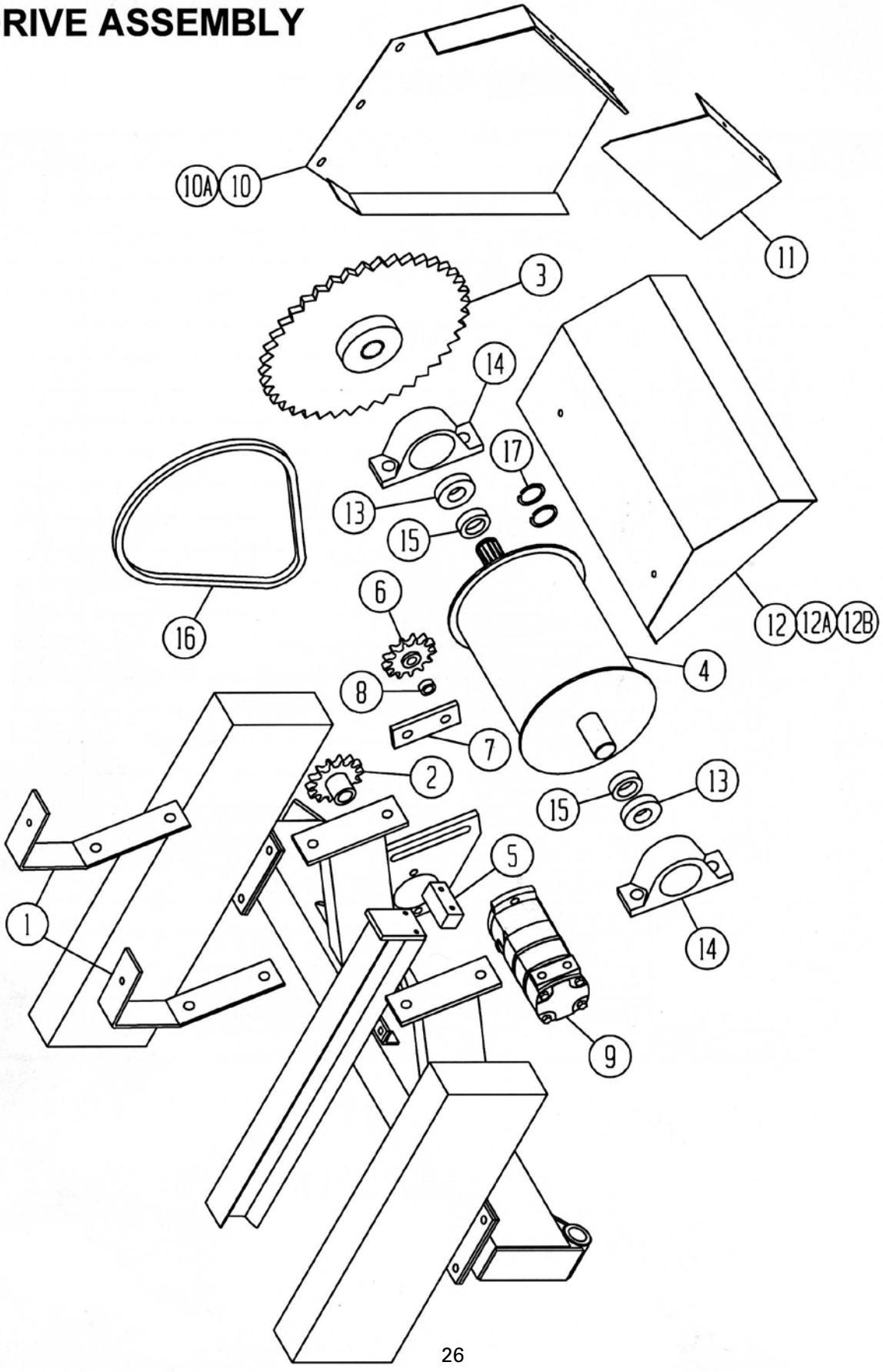
CARRIER PARTS LIST

DWG #	PART #	DESCRIPTION	QTY
1	E1932-00	AXLE PIN	2
2	B2308-00	OUTSIDE BEAM	2
2A	21860	GROSS WEIGHT DECAL	1
2B	21861	CAUTION CABLE DECAL	1
3	B2309-00	GUIDE RAIL	1
4	B2316-00	RIGHT BALE LIFT ARM	1
5	C2329-00	LEFT BALE FORK	1
6	C2330-00	RIGHT BALE FORK	1
7	E2345-00	SHORT CYLINDER PIN	1
8	B2381-00	PULLEY BRACKET	1
9	B2382-00	PULLEY HOLDER WITH PULLEY	1
10	E2397-00	THRUST WASHER	2
	58165000	11/16 x 1-3/4" FLATWASHER	2
11	B2400-00	FRONT CROSSMEMBER	1
12	B2408-00	REAR CROSSMEMBER	1
13	B2409-00	SMV BRACKET	1
14	E2445-00	LIFT ARM PIN	2
15	B2484-00	SAFETY LOCK BRACKET	1
16	B2485-00	SAFETY LATCH	1
17	B2486-00	LIGHT BRACKET (OPTIONAL)	1
18	E2488-00	MAIN HARNESS-1000/2000 (OPTIONAL)	1
19	E2489-00	CROSSMEMBER HARNESS - 1000 (OPTIONAL)	1
20	B2495-00	SMV/LIGHT BRACKET (OPTIONAL)	1
21	21258-01	3/8 x 99' 8" CABLE	1
22	22047	3 x 16" HYDRAULIC CYLINDER VANA	1
23	25050	DUAL LAMP LEFT HAND (OPTIONAL)	1
24	25051	DUAL LAMP RIGHT HAND (OPTIONAL)	1
25	E2398-00	5/8 x 7" HEX BOLT	2

NOTE: Part #E2461-00 6" pulley for item 9

DRIVE ASSEMBLY



DRIVE ASSEMBLY PARTS LIST

DWG #	PART #	DESCRIPTION	QTY
1	B2304-00	DRUM GUARD BRACKET	2
2	B2444-00	DRIVE SPROCKET (#60 - 14 TEETH)	1
3	B2459-00	CABLE DRUM SPROCKET (#60 - 60 TEETH) 1"	1
4	B2460-00	CABLE DRUM	1
5	E2465-00	CABLE SPACER	1
6	B2470-00	CHAIN TIGHTENER SPROCKET (#60 - 13 TEETH)	1
7	B2471-00	CHAIN TIGHTENER SPROCKET PLATE	1
8	B2472-00	CHAIN TIGHTENER SPROCKET SPACER	1
9	B2474-00	HYDRAULIC MOTOR	1
10	B2487-00	CHAIN GUARD	1
10A	21878	MOVING PART HAZARD DECAL	1
11	B2493-00	INSIDE CHAIN GUARD	1
12	B2494-00	CABLE DRUM GUARD	1
12A	21547	CAUTION DECAL	1
12B	21592	HIGH PRESSURE FLUID HAZARD DECAL	1
13	20198-01	1-1/2" BEARING	2
14	20198-02	BEARING HOUSING	2
15	20198-03	LOCKING COLLAR	2
16	21439	#60 x 76 LINK CHAIN	1
17	55035	SNAP RING	2

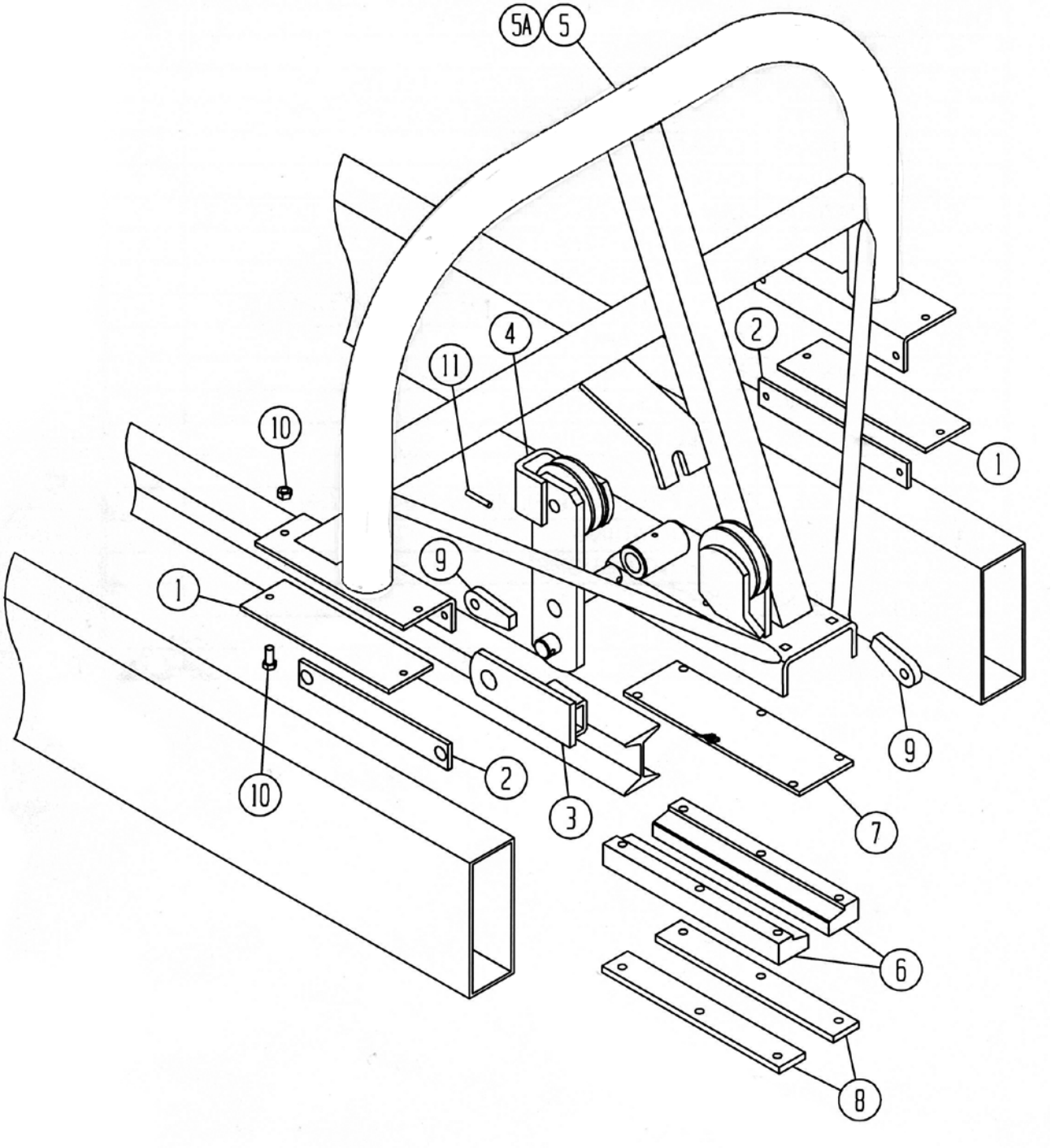
NOTE:

Item #2 - #B2444-00 is keyed

Item #3 - #60 - 60 tooth cable drum sprocket part # B2459-00 is splined and part #B2392-00 is keyed

Item #4 - #B2460-00 cable drum is splined and #INE2460-01 is axle for cable drum

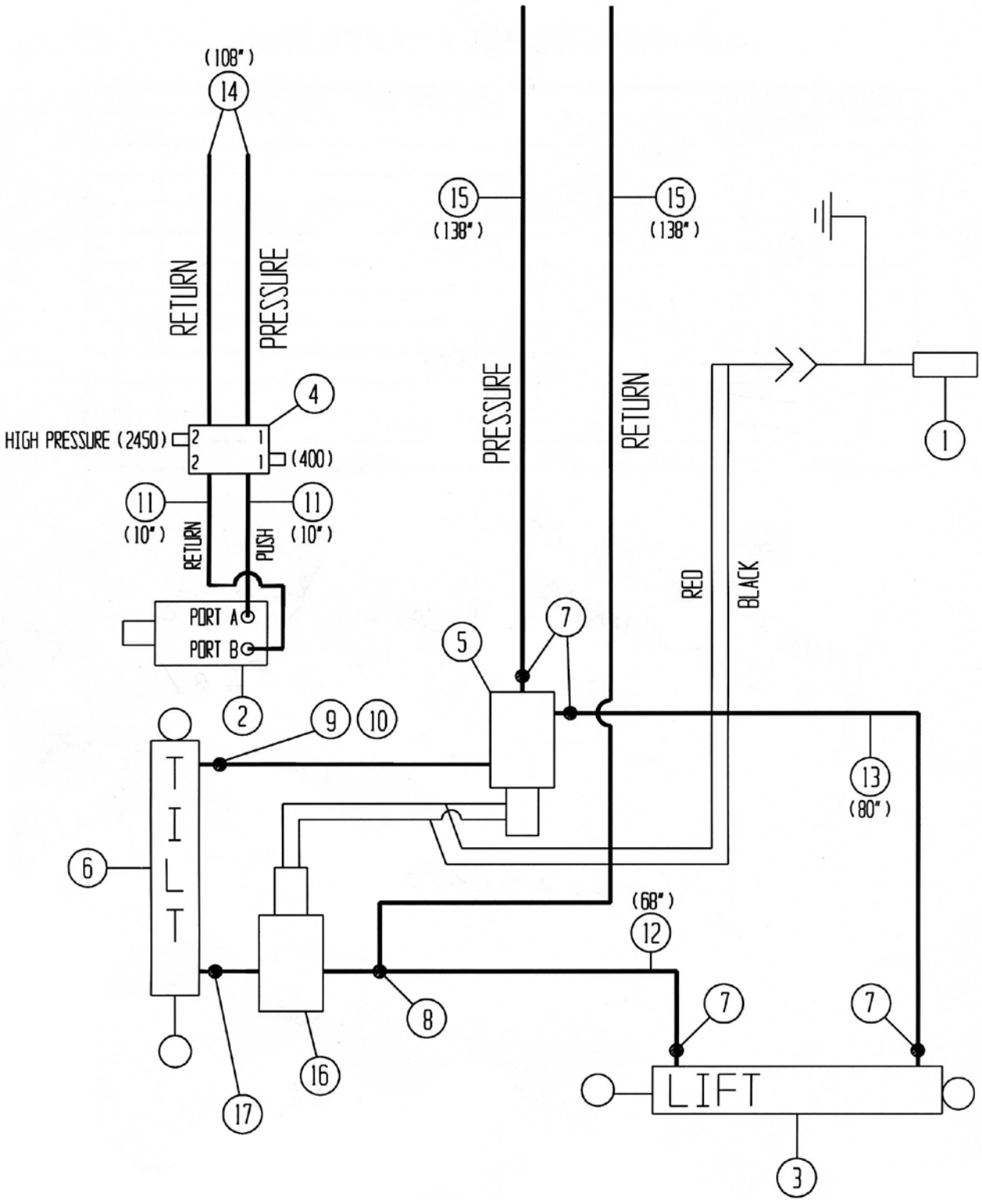
PUSHER ASSEMBLY



PUSHER ASSEMBLY PARTS LIST

DWG #	PART #	DESCRIPTION	QTY
1	E2386-00	TOP SLIDER	2
2	E2387-00	SIDE SLIDER	2
3	B2396-00	CABLE SWIVEL	1
4	B2463-00	CABLE TIGHTENER BRACKET	1
5	C2464-00	PUSHER	1
5A	21850	CAUTION DECAL	1
6	E2473-00	BEAM SLIDER	2
7	E2474-00	FRONT TOP SLIDER	1
8		SLIDER BACKUP	2
9		WEDGE	2
10		BRASS NUTS (#813561) & BOLTS (#813558)	8
11	59013010	1/4" ROLL PIN	1

HYDRAULIC/ELECTRICAL LAYOUT PARTS LIST



HYDRAULIC/ELECTRICAL LAYOUT PARTS LIST

DWG #	PART #	DESCRIPTION	QTY
1	B2412-00	ONE BUTTON CONTROL HANDLE	1
	E2414-00	CLAMP BRACKET	1
	E2443-00	CONTROL HANDLE COVER	1
	22094	PUSHBUTTON SWITCH	1
	22093	CONTROL HANDLE HARNESS	1
	22097	EXTENSION HARNESS	1
2	B2474-00	HYDRAULIC MOTOR	1
3	22047	LIFT CYLINDER	1
4	22082	CROSSOVER RELIEF VALVE	1
5	22081	SOLENOID VALVE	1
	22081-01	COIL	1
	22081-02	BODY	1
	22081-03	CARTRIDGE	1
6	26006	TILT CYLINDER	1
7	29012	#6 ORB x JIC MALE ELBOW ADAPTER	4
8	29015	#6 ORB x JIC MALE TEE	1
9	29017	1/4 NPT x #6 ORB STRAIGHT ADAPTER	1
10	29032	90° ELBOW #6 ORB x 1/4 NPT FEMALE	1
11	29079	3/8 x 10" HYDRAULIC HOSE	2
12	29067	3/8 x 68" HYDRAULIC HOSE	1
13	29068	3/8 x 80" HYDRAULIC HOSE	1
14	29080	3/8 x 108" HYDRAULIC HOSE	2
15	29065	3/8 x 138" HYDRAULIC HOSE	2
16	22171	SOLENOID CHECK VALVE	1
17	29049	O BOSS CONNECTOR	1
	22046	PIONEER COUPLING	4
	22101	AUXILARY HARNESS	1

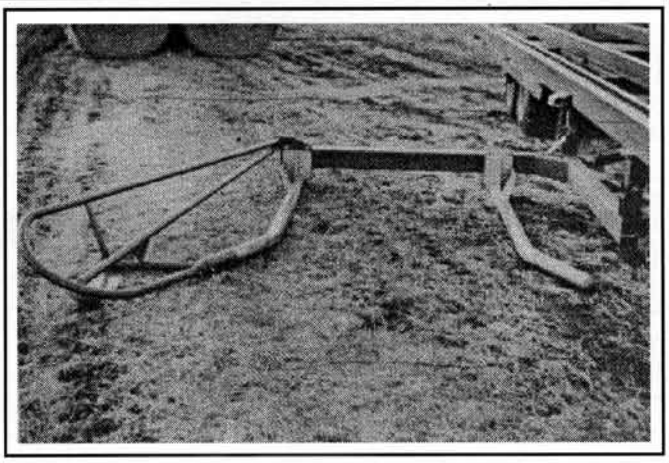
OPTIONAL EQUIPMENT

ROTATING PICKUP UNIT

This fork automatically picks up the bale, rotates it 90° and loads it onto the carrier. This allows the operator to follow the baler around field.

BALE DEFLECTOR

Attached to standard fork, this rotates bale 90° so operator can follow baler around field. Not as precise as Rotating Pickup Unit.



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