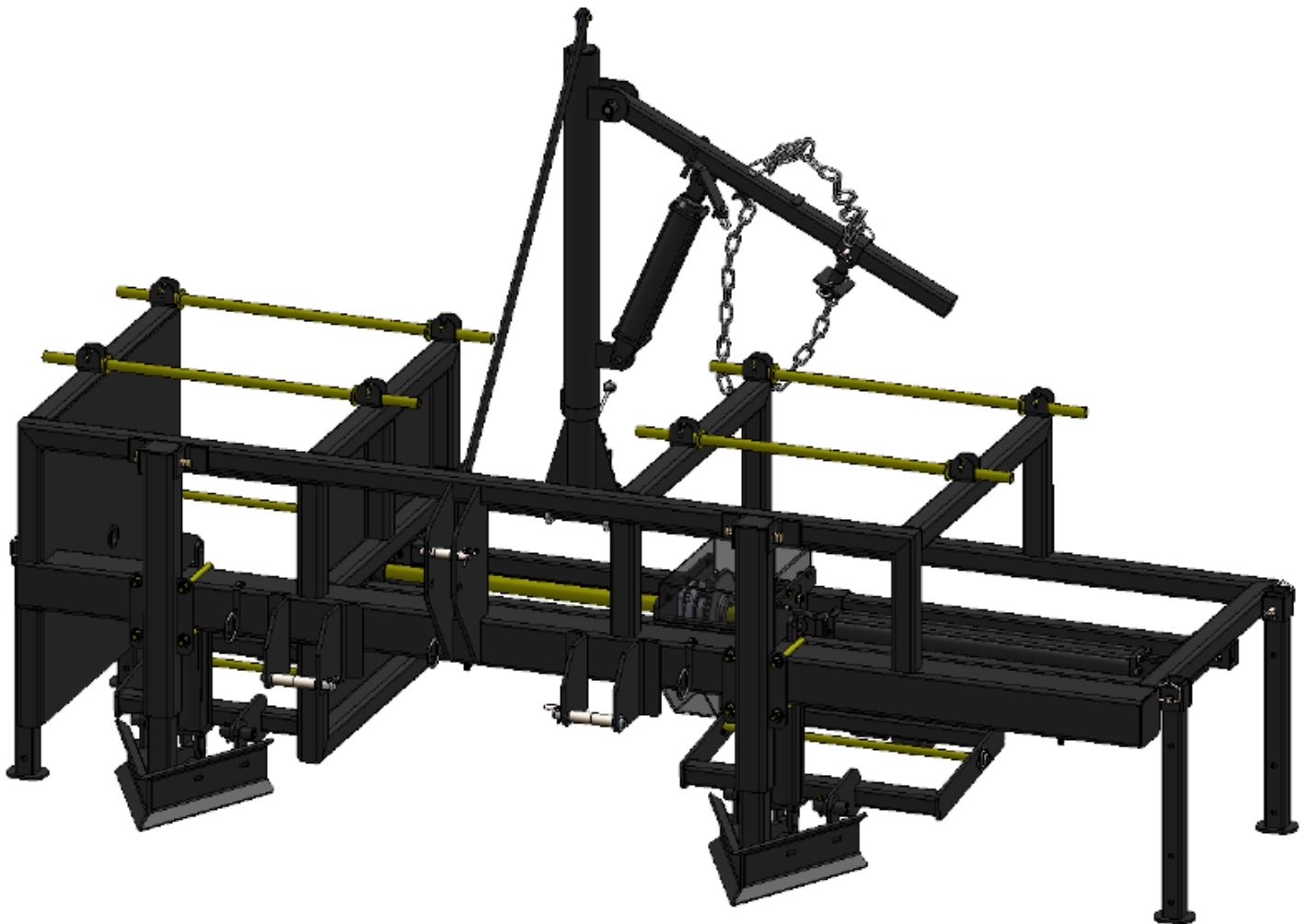




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POLY-PIPE LAYER INSTRUCTIONAL GUIDE

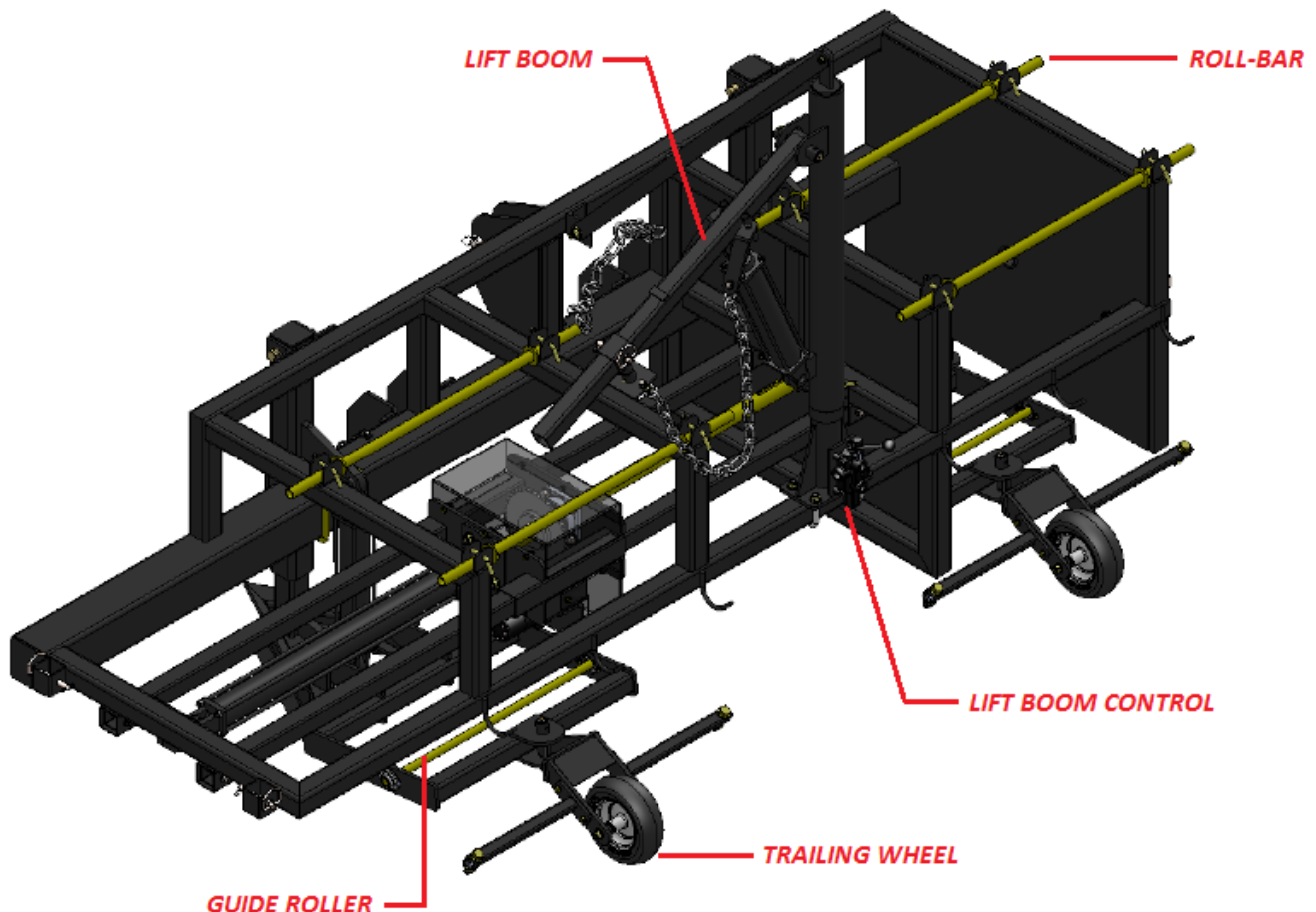


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POLY-PIPE LAYER

PLACING NEW PIPE

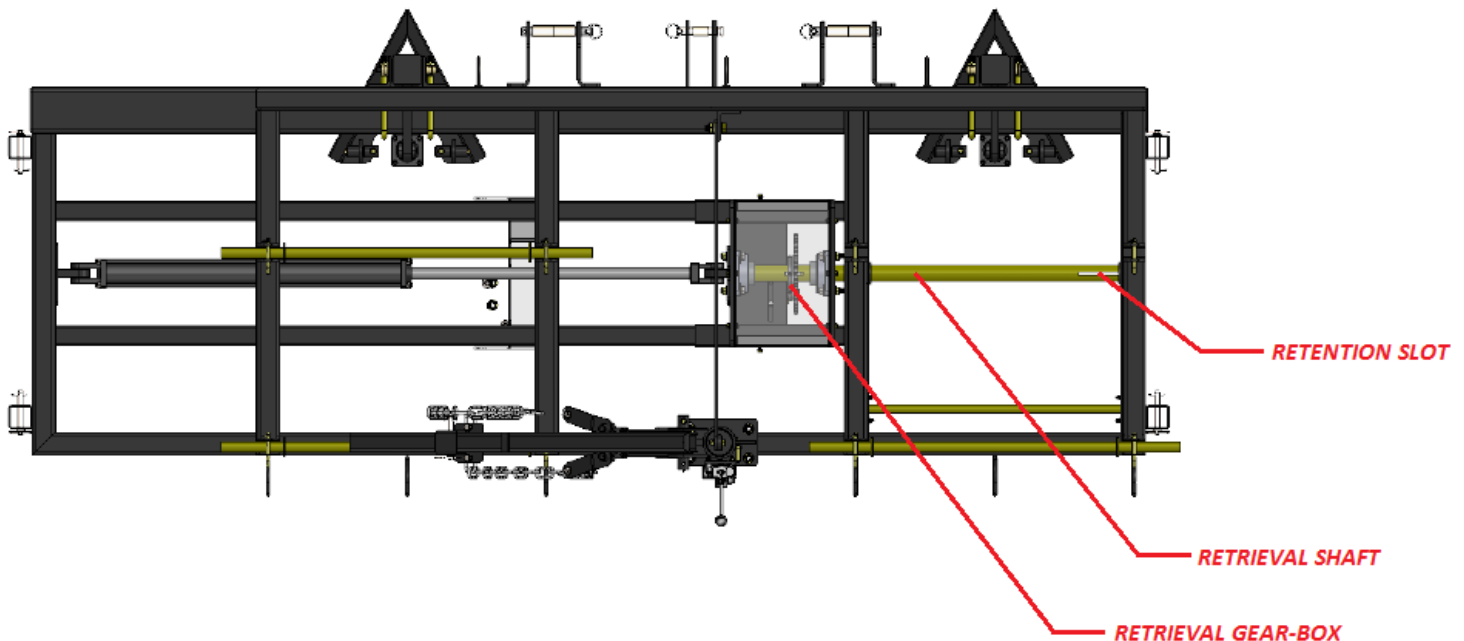
- 1) Stage pipe rolls behind the machine within reach of the lift boom, and insert supplied roll-bars through the center of the pipe roll.
- 2) Using the control valve, lower the lift boom until the chain hoist can safely reach a pipe roll and insert lift eyes into each end of the roll bars.
ENSURE THAT LIFT EYES ARE FULLY ENGAGED WITH ROLL-BARS BEFORE PROCEEDING
- 3) With lift eyes securely in place, use the control valve to raise the roll above the machine and carefully guide into position. Do not remove lift eyes until roll-bars are locked into position.
KEEP HANDS FREE OF LIFT EYES WHILE LIFTING PIPE ROLLS.
DO NOT STAND BETWEEN THE MACHINE AND PIPE ROLLS AT ANY POINT DURING OPERATION.
- 4) With pipe rolls locked in place, pull pipe from one roll and thread inside the guide roller and beneath the trailing wheel and drag chain. Secure tail end of pipe to ground using loose soil. Repeat process on opposite side of machine if laying multiple pipes.
- 5) When ready, raise the machine to a modest height and lower plow(s) to the ground and begin to pull forward to dig a shallow trench for pipe to nest in. The included drag chains will pull loose soil onto the pipe to secure it into place until plumbing can be completed.
PLOWS ARE NOT INTENDED TO TRENCH IN ECCESS OF 3" DEEP. ATTEMPTS TO DO SO CAN RESULT IN PLOW FAILURE.
- 6) Repeat Steps 1-5 as needed.



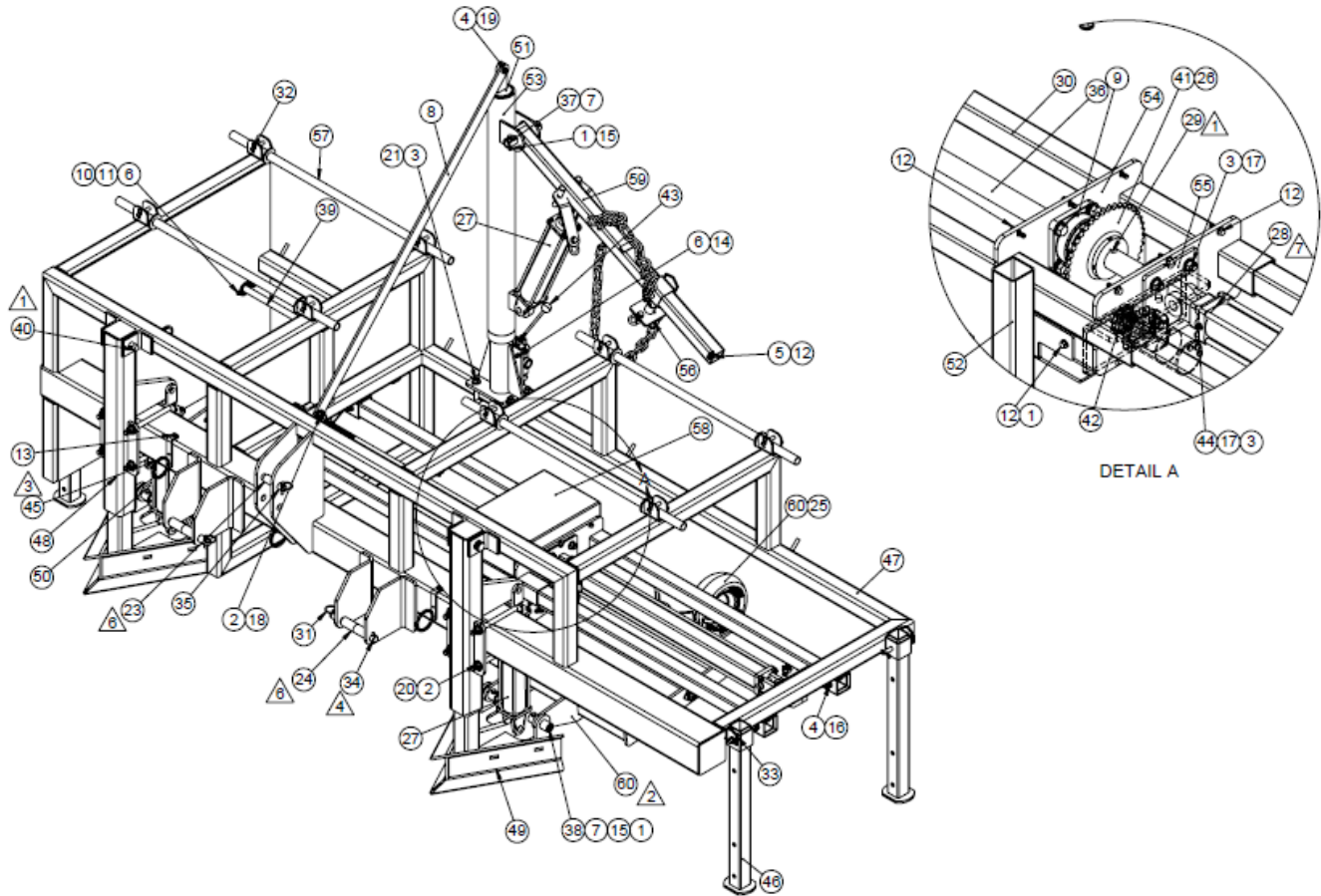
PIPE RETRIEVAL

In preparation for pipe retrieval, it is recommended to remove Plow Sweep assemblies including the Guide Roller, Trailing Wheel, and Drag Chains.

- 1) Align the tractor so that one set of wheels is centered on top of poly-pipe, with the tail of the poly-pipe remaining free from obstruction.
- 2) With the tractor in park and the engine off, insert the tail end of the poly-pipe into the slot on the retrieval shaft.
ENSURE RETRIEVAL SHAFT IS FULLY EXTENDED AND ENGAGING THE GUIDE BUSHING ON THE OUTER FRAME WALL. LUBRICATING THE SHAFT WITH GREASE IS RECOMMENDED TO PREVENT BINDING AND UNNECESSARY WEAR.
- 3) With the poly-pipe secured to the retrieval shaft, raise the machine to the highest position using the tractor's 3-Point hitch.
LEAVE 4-5 FEET OF SLACK IN THE PIPE BETWEEN THE REAR TRACTOR TIRE AND RETRIEVAL SHAFT.
- 4) When ready, begin to pull forward driving over the poly-pipe to help remove any remaining water. Once moving, engage the retrieval motor on the machine.
MATCHING TRACTOR SPEED TO PIPE RETRIEVAL SPEED IS CRITICAL TO PROPER OPERATION. BE CERTAIN TO MAINTAIN THE ABOVE MENTIONED SLACK BETWEEN THE TRACTOR AND RETRIEVAL SHAFT. FAILURE TO DO SO CAN RESULT IN BINDING THE MATERIAL TO THE SHAFT.
- 5) Once the desired amount of pipe has been retrieved, lower the implement until the pipe-roll is resting on the ground and retract the retrieval shaft.
- 6) With the retrieval shaft fully retracted, raise the machine to clear the pipe-roll and pull-away from the pipe.
- 7) Repeat Steps 1-6 for each roll to be retrieved.



PARTS BREAKDOWN



Item No	Part Number	Qty.	Description	Item No	Part Number	Qty.	Description
1	5006345	10	3/8-16nc Hex Flanged Toplock Nut Gr. 5	31	5101091	3	Lynch Pin, 7/16" x 1-1/4"
2	5006359	9	3/4-10nc Hex Flanged Toplock Nut Gr. 8	32	5101202	9	BENT CLEVIS PIN (1/2" DIA.)
3	5006364	14	5/8-11nc Hex Flanged Toplock Nut Gr. 8	33	5101226	5	Hitch Pin, 5/8" Dia., 4 1/4" Useable w/Hairpin Cotter
4	5006365	5	1/2-13nc Hex Flanged Toplock Nut Gr. 8	34	5101234	2	Cat. II Hitch Pin (7 7/8" Useable)
5	5006366	1	3/8-16nc Hex Flanged Toplock Nut Gr. 8	35	5101332	1	Top Link Pin
6	5006367	7	5/16-18nc Hex Flanged Toplock Nut Gr. 8	36	5101344	1	SHAFT
7	5012015	5	Grease Zerk, 1/4"-28 Thread	37	5101345	1	PIN
8	5027872	1	PLATE, HOIST SUPPORT	38	5101346	4	PIN
9	5031504	2	BEARING, 4 BOLT HOUSING, 2" DIA SHAFT	39	5101348	1	SHAFT, ROLLER SUPPORT
10	5031505	2	BEARING, 2 BOLT FLANGE, 1" DIA SHAFT	40	5101353	2	Top Link Pin
11	5034448	4	Carriage Bolt, 5/16"-18 x 1"	41	5130016	1	Sprocket, #60, 42 Teeth, 2" DIA SHAFT
12	5034592	16	H.H.C.S. Flanged 3/8"-16nc x 1 1/4" Long	42	5130017	1	11 TOOTH SPROCKET, 1" DIA SHAFT
13	5034597	3	3/8-16 x 3/4" Long Hex Head Self Tapping Screw Type 23	43	5143542	1	VALVE, PRINCE RD2500 MONO BLOCK
14	5034640	3	H.H.C.S. Flanged 5/16"-18nc x 2" Long	44	5162036	1	HYDRAULIC MOTOR
15	5034666	5	H.H.C.S. Flanged 3/8"-16nc x 2 1/4" Long	45	5275467	3	Long Hose Guide Weldment
16	5034701	4	H.H.C.S. Flanged 1/2"-13nc x 3 3/4" Long	46	5278810	4	LEG WELDMENT
17	5034722	10	5/8"-11 x 2 1/2" Flanged HHCS	47	5278811	1	POLY PIPE LAYER FRAME WELDMENT
18	5034757	1	Fing HH Bolt 3/4-10 x 2"	48	5278813	2	FLOW SUPPORT WELDMENT
19	5034781	1	Fing HH Bolt 1/2-13 X 1 1/2"	49	5278817	2	FLOW WELDMENT
20	5034795	4	U-BOLT, 3/4-10 x 6" WIDE x 10" LONG	50	5278820	1	WHEEL STEERING ASSEMBLY, RH
21	5034821	2	5/8-11 x 3.125 x 4.375 SQ. U-BOLT, GR. 2, CZP	51	5278823	1	HOIST MAST SUPPORT WELDMENT
22	5038897	1	MOTOR MOUNT BRACKET	52	5278824	1	LOWER GUARD WELDMENT
23	5041067	1	Top Link Bushing	53	5278825	1	MAST WELDMENT
24	5041091	4	Lower Link Bushing	54	5278826	1	SHAFT SLIDE WELDMENT
25	5049058	2	CHAIN, 1/2" GRADE 30 PROOF	55	5278827	1	CYLINDER BRACKET WELDMENT
26	5049059	1	#60 ROLLER CHAIN W/MASTER LINK	56	5278829	1	CHAIN LIFT ASSEMBLY
27	5061033	3	Hydraulic Cylinder, 3" x 16", 1.5" Rod	57	5278853	4	PIPE HOLDER WELDMENT
28	5061053	1	Hyd. Cyl. - 3" x 36" x 1.5" Rod	58	5278854	1	UPPER GUARD WELDMENT
29	5089056	1	KEY, LARGE SPROCKET	59	5278855	1	BOOM LIFT WELDMENT
30	5100900	2	SLIDE TUBE	60	5278976	1	WHEEL STEERING ASSEMBLY, LH

TROUBLESHOOTING

Q.) Why won't the Retrieval Shaft fully retract?

A.) Poly-pipe is likely bound to the shaft.

This is typically caused by a failure to match tractor and retrieval speeds.

To free ply-pipe from shaft, spin retrieval shaft in the opposite direction of the pipe roll to relieve pressure and retract the shaft.

Q.) Why can't I maintain slack between the tractor and poly-pipe roll during retrieval?

A.) Ground Speed and Retrieval speed do not match.

Adjust your ground speed on the tractor in order to match pipe retrieval rate. In some cases, it may be necessary to adjust hydraulic flow rates to the retrieval motor to suit a desired ground speed.

Q.) Why won't the Retrieval Shaft fully extend to engage the guide bushing on the outer frame wall?

A.) Retrieval Shaft may be bent.

This is typically caused by loading the retrieval shaft when it is not fully engaged.

Please contact a certified Ag Spray Dealer or Representative for service.

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