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Installation Instructions

Models: 65 LDA, 75 LDA, 85 LDA

READ BEFORE INSTALLATION!

Instructions in this manual supersede all editions published at an earlier date.

Snowman Snowplow, Inc. reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.

IMPORTANT!

This manual contains step-by-step instructions for proper installation of the SNOWMAN model 65 LDA, 75 LDA and 85 LDA snowplows.

Please read manual carefully before assembling plow, and follow recommendations given.

IF FURTHER ASSISTANCE IS NEEDED, CALL 888-766-6267



This is a safety alert symbol. It alerts an operator to information concerning personal safety.

Always observe and heed these symbols and instructions to prevent serious injury to yourself or others.

GENERAL INFORMATION:



CAUTION: Always disconnect battery prior to installation.

Check contents of shipment against the parts list to determine all are correct and included.

When ordering parts, furnish model number of plow, part number, name and description.



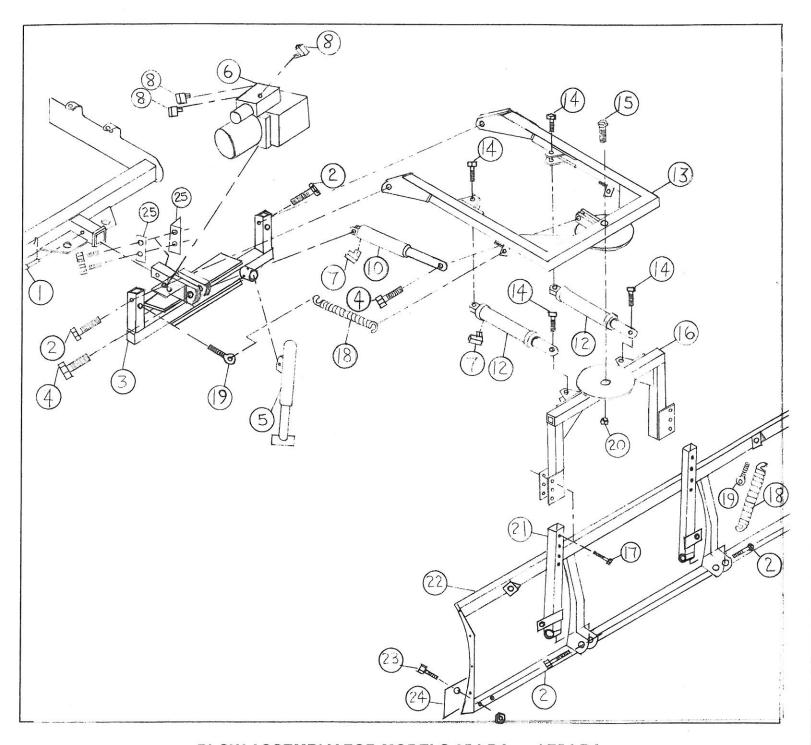
SAFETY PRECAUTIONS should be used when power unit is IN OPERATION and plow is in ANY POSITION. LOWER plow to ground when vehicle is PARKED.



Remove plow when not in use. Always **SWITCH THE REMOTE CONTROL TO OFF** before unhooking from plow, and when the plow is not in use.

TOOLS NEEDED FOR SNOWMAN MODEL 65-75-85 LDA SNOWPLOW INSTALLATION

	8	
WRENCHES:	DRILL BITS:	SIDE CUTTERS
7/16"	3/8"	DRILL
1/2"	11/16"	3/8" NUT DRIVER
9/16"		STRAIGHT SLOT SCREWDRIVER
5/8"		
11/16"		
3/4"		
15/16"		
1-1/8"		
(2) 1-1/2"		



PLOW ASSEMBLY FOR MODELS 65 LDA and 75 LDA

- 1) (X11031) 5/8"x31/2" Hitch pin (1)
- 2) (X11007) 5/8"x4" Bolt (4)
- 3) (TM101LDA-L; TM101LDA-H) LDA T-mount
- 4) (X11042) 1"x4" Bolt (2)
- 5) (JA001S) 10" Jack
- 6) (SM80SPC) LDA Power unit-SPX
- 7) (H2009) 1/4" Standard swivel fitting (6)
- 8) (E3001PF) Pump flow control (1)
- 9) (E3001PFN) Pump flow nipple (1)

- 10) (H4300) Lift cylinder, 13/4"x12" stroke
- 12) (H4210) Angle cylinder, 1½"x6" stroke (2)
- 13) (U6001LDA) LDA upper pivot arm
- 14) (X11040) 3/4" x33/4" Bolt (4)
- 15) (X11044) 1"x6" Bolt (1)
- 16) (U6002LDA) LDA lower pivot arm
- 17) (X11005) ½"x3½" Bolt (4)
- 18) (T9001) Springs (4)
- 19) (X11021) 5/8"x63/4" Eye Bolt (4)

- 20) (X11043) 1" Lock nut (3)
- 21) (L7004) LDA lower left arm
- 22) (M65LDA/M75LDA) Moldboard (6.5'-65 LDA and 7.5'-75 LDA)
- 23) (X11004) ½"x3½" Carriage bolt (9-model 65 LDA) (10-model 75 LDA)
- 24) (C4065-C4075)
 - Carbon steel cutting edge
- 25) (U6005 L/R) Left & right hitch stop (2)

PARTS LIST: 75 LDA

22 24 23 21 2 18 19	M65LDA-R/Y C4065 X11051 X11018 L7004 R8004	6-1/2 Ft. 12 Ga. Moldboard 6-1/2 Ft. carbon steel cutting edge 1/2"x2" Carriage bolt	1 1		22	MAZEL DA DA	17 4/0 Ft 40 O- M 18		B/O
23 21 2 18	X11051 X11018 L7004	1/2"x2" Carriage bolt	1				7-1/2 Ft. 12 Ga. Moldboard	1 1	
21 2 18	X11018 L7004				24	C4075	7-1/2 Ft. carbon steel cutting edge	1	
2	L7004		9		23	X11051	1/2"x2" Carriage bolt	10	
2		1/2" Lock nut	9			X11018	1/2" Lock nut	10	
18	R8004	LDA lower left arm	1		21	L7004	LDA lower left arm	1	
18	110000	LDA lower right arm	1			R8004	LDA lower right arm	1	
12000	X11007	5/8"x4" Bolt	2		2	X11007	5/8"x4" Bolt	2	
12000	X11035	5/8" Lock nut	2		 -	X11035	5/8" Lock nut	2	
12000	T9001	Springs (trip)	2	\vdash	18	T9001	Springs (trip)	2	
	X11021	5/8"x6-3/4" Eye bolt (2 nut)	2		19	X11021	5/8"x6-3/4" Eye bolt (2 nut)	2	
ı	X11039	5/8" Structural washer	4		10	X11039	5/8" Structural washer	4	-
3		LDA T-mount (hitch height 16"-24") (std)	1 7	\vdash	3		LDA T-mount (hitch height 16"-24") (std)		
_		LDA T-mount (hitch height 10"-16") (opt)	 '-		1 3	TM101LDA-II	LDA T-mount (hitch height 10" 40") (std)	1	
13	U6001LDA	LDA upper pivot arm	1		13	U6001LDA	LDA T-mount (hitch height 10"-16") (opt)		
	U6002LDA	LDA lower pivot arm					LDA upper pivot arm	1	
18	T9001		1		16	U6002LDA	LDA lower pivot arm	1 1	
		Springs (down pressure)	2		18	T9001	Springs (down pressure)	2	
38.88	X11021	• 5/8"x6-3/4" Eye bolt (2 nut)	2		19	X11021	• 5/8"x6-3/4" Eye bolt (2 nut)	2	
2	X11007	• 5/8"x4" Bolt	2		2	X11007	• 5/8"x4" Bolt	2	
	X11039	• 5/8" Structural washer	4			X11039	5/8" Structural washer	4	
	X11035	• 5/8" Lock nut	2			X11035	• 5/8" Lock nut	2	
17	X11005	• 1/2"x3-1/2" Bolt	4		17	X11005	• 1/2"x3-1/2" Bolt	4	
	X11038	1/2" Structural washer	4			X11038	1/2" Structural washer	4	
	X11018	• 1/2" Lock nut	4			X11018	• 1/2" Lock nut	4	
	X11031	• 5/8"x3-1/2" Hitch pin	1		1	X11031	• 5/8"x3-1/2" Hitch pin	1 1	
20	X11043	• 1" Lock nut	1		20	X11043	• 1" Lock nut	1	
15	X11044	• 1"x6" Bolt	1		15	X11044	• 1"x6" Bolt		
	X11036	• 5/16" Lock nut	2			X11036	• 5/16" Lock nut	2	
	X11047	• 5/16"x2-3/4" Bolt	2		-	X11047	• 5/16"x2-3/4" Bolt	2	
	U6005L	Left hitch stop	1		25	U6005L	• Left hitch stop	1	
		Right hitch stop	1	-		U6005R	Right hitch stop	1	
		Safety Chain	1		20	SC1001	Safety Chain	,	
		• Flag/Pr. (includes 2 S-hooks)	1	-		A5006	Flag/Pr. (includes 2 S-hooks)	1	
		re indented items included in bag # 1 LDA		-			/e indented items included in bag # 1 LDA	1	
		2.0 Hydraulic power unit (LDA)	1		6				
		4-way joystick controller w/3' lead	1	\rightarrow	0		2.0 Hydraulic power unit (LDA)	1	
		Hydraulic hoses (36")	3				4-way joystick controller w/3' lead	1	
		Vinyl power unit cover				H2003	Hydraulic hoses (36")	3	
			1			PC001	Vinyl power unit cover	1	
		• 3/8"x1" Bolt	2			X11002	• 3/8"x1" Bolt	2	
	X11022	• 3/8" Lock washer	2			X11022	3/8" Lock washer	2	Adams To
		1/4" Standard swivel fitting	3			H2009	1/4" Standard swivel fitting	3	
		9/16" Boss swivel fitting	3			H2004	9/16" Boss swivel fitting	3	
		Angle cylinder (1-1/2"x6" stroke)	2			H4210	Angle cylinder (1-1/2"x6" stroke)	2	
		Lift cylinder (1-3/4"x12" stroke)	1		10	H4300	Lift cylinder (1-3/4"x12" stroke)	1	
	and the second s	• 1"x4" Bolt	2		4	X11042	• 1"x4" Bolt	2	
		1" Lock nut	2			X11043	• 1" Lock nut	2	
14	X11040	• 3/4"X3-3/4" Bolt	4		14	X11040	• 3/4"X3-3/4" Bolt	4	
	X11041	· 3/4" Lock nut	4			X11041	• 3/4" Lock nut	4	
7	Z1001 •	3/16" Grease zerk	3			Z1001	• 3/16" Grease zerk	3	
		e indented items included in bag # 2 LDA					re indented items included in bag # 2 LDA	9	
		25 Ft. vehicle harness	1				25 Ft. vehicle harness	1	
		3 Ft. pump harness	1				3 Ft. pump harness	1	
		2 Ft. battery cable	1			CONTRACTOR		1	
		Solenoid	1	-+			2 Ft. battery cable	1	
		1/4"x3/4" Bolt	2			E3003WR	Solenoid A/All-2/All Park	1	
		1/4" Lock nut					• 1/4"x3/4" Bolt	2	
			2				• 1/4" Lock nut	2	
		Dielectric grease	1			E3009	Dielectric grease	1	
		Cable ties	12				Cable ties	12	
		e indented items included in bag # 3				 All of the abov 	e indented items included in bag # 3		
		5" Jack (standard)	1		5	JA001L	15" Jack (standard)	1	
	JA001S 1	0" Jack (optional)		[JA001S	10" Jack (optional)		
PART	SLISTLDA	Ref. No. refers	o drawir	ng, pg.	2, inst	allation instructed for each plo	ions.		

PARTS LIST: 85 LDA

REF NO	PART NUMBER	DESCRIPTION	QTY	QTY B/O	REF NO	PART NUMBER	DESCRIPTION	QTY	QTY B/O
22	M85LDA-R/Y	8-1/2 Ft. 12 Ga. Moldboard	1		6	SM-DB1439	2.0 Hydraulic power unit (LDA)	1	
24	C4085	8-1/2 Ft. carbon steel cutting edge	1			E3002FA	4-way joystick controller w/3' lead	1	
23	X11051	1/2"x2" Carriage bolt	10			H2003	Hydraulic hoses (36")	3	
	X11018	1/2" Lock nut	10			PC001	Vinyl power unit cover	1	
21	L7004	LDA lower left arm	1			X11002	• 3/8"x1"Bolt	2	
	R8004	LDA lower right arm	1			X11022	• 3/8" Lock washer	2	
2	X11007	5/8"x4" Bolt	2		7	H2009	• 1/4" Standard swivel fitting	3	
	X11035	5/8" Lock nut	2		8	H2004	9/16" Boss swivel fitting	3	
18	T9001	Springs (trip)	2		12	H4210	Angle cylinder (1-1/2"x6" stroke)	2	
19	X11021	5/8"x6-3/4" Eye bolt (2 nut)	2		10	H4300	Lift cylinder (1-3/4"x12" stroke)	1	
	X11039	5/8" Structural washer	4		4	X11042	• 1"x4" Bolt	2	
3	TM101LDA-H	LDA T-mount (hitch height 16"-24")(std)	1			X11043	• 1" Lock nut	2	
	TM101LDA-L	LDA T-mount (hitch height 10"-16") (opt)			14	X11040	• 3/4"X3-3/4" Bolt	4	
13	U6001LDA	LDA upper pivot arm	1			X11041	• 3/4" Lock nut	4	
16	U6002LDA	LDA lower pivot arm	1			Z1001	3/16" Grease zerk	3	
18	T9001	Springs (down pressure)	2			All of the above indented items included in bag # 2 LDA			
19	X11021	• 5/8"x6-3/4" Eye bolt (2 nut)	2			EH4002	25 Ft. vehicle harness	1	
2	X11007	• 5/8"x4" Bolt	2			EH4001	3 Ft. pump harness	1	
	X11039	5/8" Structural washer	4			E3005	2 Ft. battery cable	1	
	X11035	• 5/8" Lock nut	2			E3003WR	Solenoid	1	
17	X11005	• 1/2"x3-1/2" Bolt	4			E3006A	• 1/4"x3/4" Bolt	2	
	X11038	1/2" Structural washer	4			E3006D	• 1/4" Lock nut	2	
	X11018	• 1/2" Lock nut	4			E3009	Dielectric grease	1	
1	X11031	• 5/8"x3-1/2" Hitch pin	1			H2007	Cable ties	12	
20	X11043	• 1" Lock nut	1			All of the above indented items included in bag # 3			
15	X11044	• 1"x6" Bolt	1		5	JA001L	15" Jack (standard)	1	
	X11036	• 5/16" Lock nut	2			JA001S	10" Jack (optional)		
	X11047	• 5/16"x2-3/4" Bolt	2						
25	U6005L	Left hitch stop	1						
25	U6005R	Right hitch stop	1						
	SC1001	Safety Chain	1						
	A5006	Flag/Pr. (includes 2 S-hooks)	1						
	All of the above	ve indented items included in bag # 1 LDA							
Ref. No	o. refers to draw	ring, pg. 2, installation instructions. Qty. rep	presents	no. of	parts re	quired for each	plow.		

IMPORTANT:
This manual contains
step-by-step instructions
for proper installation of the
SNOWMAN model 65 LDA, 75 LDA and
85 LDA snowplows.
Please read manual carefully before
assembling plow, and follow
recommendations given.

IF FURTHER ASSISTANCE IS NEEDED, CALL 888-766-6267.

SNOWMAN MODELS 65 LDA, 75 LDA & 85 LDA INSTALLATION INSTRUCTIONS

Bolts should be finger tight until instructed to tighten. Use standard methods and practices when attaching snowplow.

IMPORTANT: PRIOR TO INSTALLING THE SNOWMAN PLOW ON THE VEHICLE:

- Inspect the existing hitch and frame for cracks and other defects that could weaken the hitch or frame. If cracks or defects are discovered in the hitch, it must be replaced before mounting the Snowman plow. If defects are found in the frame they must be repaired prior to mounting the Snowman plow.
- Check the bolts that were used in mounting the hitch. Snowman recommends using Loctite and lock nuts on grade 8 bolts to assure maximum strength.
- Check the existing hitch to verify that it is a class 3 hitch, with a tongue weight rating of no less than 500# for the 65 or 75 LDA; or class 4 hitch with a tongue weight rating of no less than 750# for the 85 LDA model as required by Snowman Snowplow.

Installing Power Unit/Pump Harness:

 Apply Neversieze or grease to the 2" square extension on the T-mount. This will assure easy on/off when hooking up to or unhooking from the vehicle.

- 2. Insert the T-mount into the center tube on the hitch and fasten with one 5/8" hitch pin.
- 3. Standing at the rear of the vehicle, set the power unit on the T-mount, running it lengthwise with the bumper, with the reservoir to the right (passenger side of vehicle), and the motor to the left (driver's side of vehicle).
- 4. Locate the black (-) cable on the 3 ft. pump harness. Place one 3/8" lock washer on one of the 3/8"x3/4" bolts provided. Insert the bolt through the eyelet at the end of the cable. Screw the bolt up through one of the mounting holes on the T-mount and into the corresponding hole on the bottom of the power
- Place the second 3/8" lock washer on the remaining 3/8"x3/4" bolt. Screw the bolt up through the second mounting hole in the Tmount and into the corresponding hole on the power unit.

MPORTANT: Care should be taken to avoid over tightening, which could break the aluminum pump housing.

- Locate the red (+) cable on the 3 ft. pump harness. Connect the eyelet at the end of the red cable to the 1/4" post located on the top left side of the power unit motor to supply power to the power unit.
- 7. Locate the 3 small wires (red, orange, green) at the end of the pump harness. Standing at back of truck, and facing the power unit, connect the green wire to the left angle coil lead on the pump; the orange to the center lift coil lead, and the red to the right angle coil lead.
- Fill the reservoir 3/4 full (normal operating level)
 with "Lubriplate Special Pour Hydraulic"
 (approx. 3 qts). Another oil of equal weight
 may be substituted for Lubriplate, or whatever
 is recommended for your front plow will work.

MPORTANT: Snowman Snowplow, Inc. recommends "Lubriplate Special Pour Hydraulic" oil. To locate a Lubriplate dealer near you, call 419-691-2491. When ordering, ask for item no. 76757 (four, 1-gallon containers).

Installing Vehicle Harness:

- Locate the cable ends on the 25 ft. vehicle harness that will connect to the battery and cab remote control. Tape the cables together with electrical tape for easier installation.
- Beginning at the back of the vehicle, decide on where you want to start installing the harness (i.e. run it through a plug in the bumper, or between the bumper and the vehicle.)
- 3. Using the cable ends that you taped together as the lead end, run the harness along the vehicle's frame channel from the back of the vehicle to the front, ending up at the battery. Untape the cables.



CAUTION: Keep cord away from heat and wear points.

- 4. Run the harness remote cord through an outlet in the firewall of the cab. Look for an outlet underneath the cab and towards the front. If there is no existing outlet, a hole can be drilled through the firewall. CAUTION: Make sure there are no wires or hidden objects in the area that you will be drilling through. Connect the remote cord to the remote control in the cab.
- Run the fused wire to a spare fuse spade in the fuse panel so that it is connected live when the vehicle ignition is on. When the vehicle ignition is turned off, the remote should be dead.

MPORTANT: Regular cleaning, re-greasing (using dielectric grease) and sealing of all connections is necessary to maintain correct grounding and amp flow for optimum operating performance of the unit.

Solenoid Installation:

 Locate a metal area under the hood of the vehicle on the inside of the fender to mount the solenoid. The location must be within 2 feet of the positive post on the battery.

- 2. Drill two 5/16" holes at this location.
- 3. Using the two 1/4"x3/4" bolts and two 1/4" lock nuts, mount the solenoid in a vertical position with the solenoid cap pointing down.
- 4. Connect one end of the 2 ft. battery cable to the solenoid post located on the side of the solenoid that is towards the front of the vehicle. DO NOT CONNECT THE CABLE TO THE BATTERY AT THIS TIME.
- 5. Connect the black ground cable of the 25 ft. vehicle harness cables to the negative (-) post on the battery. Connect the red positive (or hot power cable) to the solenoid post located on the side of the solenoid that is towards the rear of the vehicle.
- 6. Locate the brown wire with a 3/8" eyelet on the end that splits out of the harness, and connect it to the small post on top of the solenoid.
- Gather up excess vehicle harness cable length and secure it with cable ties at a location away from heat and wear points.
- 8. Plug the 3 ft. pump harness into the 25 ft. vehicle harness at the bumper.

Assembling the Plow:

- If not preassembled, bolt the carbon steel cutting edge to the moldboard using nine 1/2"x3-1/2" carriage bolts and nine 1/2" lock nuts for the 65 LDA, ten of each for the 75 LDA and 85 LDA.
- 2. If not preassembled, bolt the **left** lower arm and the **right** lower arm to the moldboard using two 5/8"x4" bolts, two 5/8" structural washers and two 5/8" lock nuts.
- 3. Attach the LDA lower pivot arm to the lower arms using four 1/2"x3-1/2" bolts, four 1/2" structural washers and four 1/2" lock nuts.
- Attach the LDA upper pivot arm to the LDA lower pivot arm using one 1"x6" bolt and lock nut.

- 5. Mount the LDA upper pivot arm to the LDA T-mount with two 5/8"x4" bolts, two 5/8" structural washers and two 5/8" lock nuts that are provided. **Caution: Do not overtighten.**
- 6. If not preassembled, hook the two springs to the spring mounts located on the lower arms. Hook the other end of the springs to the two 5/8"x6-3/4" eyebolts provided. Thread one nut on each eyebolt. Insert the eyebolts into the two spring mounts located along the top lip of the moldboard. Place a 5/8" structural washer and the second nut on each eyebolt and tighten down.

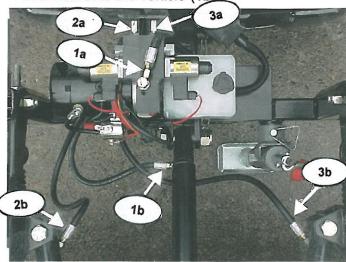
Installing Cylinder and Hoses:



CAUTION: To avoid possible damage to the cylinder, do not overtighten nuts.

- 1. With the welded end of the lift cylinder pointed toward the vehicle, fasten the front end of the lift cylinder to the center of the LDA T-mount using one 1"x4" bolt and lock nut making sure that fitting hole is underneath. Extend the lift cylinder and fasten it to the upper arm assembly using one 1"x4" bolt and lock nut.
- 2. With the welded end of one angle cylinder pointed toward the vehicle, and using a 15/16" wrench, fasten the welded end of the cylinder to one of the side mounts on the upper pivot arm, using one 3/4"x3-3/4" bolt and lock nut. Extend the angle cylinder out and fasten the extended end to one of the mounts located on the crossbar of the lower pivot arm using one 3/4"x3-3/4" bolt and lock nut. (Repeat for the second cylinder.)
- 3. Insert three 1/4" standard swivel fittings into the oil ports located on the 3 cylinders (one fitting per cylinder). Point the ends of the angle cylinder fittings towards the center lift cylinder. Point the end of the lift cylinder fitting toward the angle cylinder and opposite the jack mount.

4. REFERRING TO PICTURE: Locate the oil port on the top side of the power unit valve body (1a). Connect one 9/16" boss swivel fitting to the oil port. Point the female end of the fitting towards the vehicle. After attaching one end of one 36" hose to the fitting, bring the hose around and under the electrical portion of the power unit and then attach the other end of the hose to the 1/4" standard swivel fitting located on the front end of the lift cylinder, the end closest to the vehicle (1b)



- 5. REFERRING TO PICTURE: Connect two 9/16" boss swivel fittings to the oil ports located on the side of the valve body closest to the vehicle (2a, 3a). Point fittings (2a, 3a) towards the ground. Attach one end of the 2nd 36" hose to the right swivel fitting on the valve body (3a), and then run the hose down under the lift cylinder and over to the right angle cylinder (3b). Connect it to the swivel fitting on the right angle cylinder. Attach one end of the 3rd 36" hose to the left 1/4" standard swivel fitting (2a). Run the hose down under the power unit. Pull the hose under the power unit and back to the left angle cylinder (2b). Connect it to the 1/4" standard swivel fitting on the left angle cylinder.
- 6. The hoses will loop out slightly towards the driver's side of the vehicle when the plow is in the lowered position.
- Place storage/mounting jack horizontally on LDA T-mount and fasten with the 9/16" pin provided. (Remove the jack when you are plowing.)

Installing Down Pressure Springs: (Plow must be in down position)

- 1. Thread one nut onto one 5/8" eyebolt as far as it will go. Hook a spring on one end of the eyebolt. Insert the eyebolt into a mounting hole on one end of the T-mount and hook the other end of the spring into the angle iron on the corresponding side of the upper pivot arm. Thread a 5/8" structural washer and the second nut onto the eyebolt and tighten the nut down as far as it will go. IMPORTANT: The eyebolt spade must be installed in a vertical position and the nut must be tight on the bolt (using all threads) to provide strength...
- 2. Repeat step one for installing the spring on the opposite side.

System Check-out:

- Tighten all bolts, hoses and fittings using standard methods and practices.
- 2. Attach the loose end of the 2 ft. battery cable to the (+) positive post on the vehicle battery.
- 3. Check to see that all bystanders are a safe distance from the plow to avoid possible injury.
- Raise the plow to its maximum height, then lower the plow until the lift cylinder is fully retracted.
- 5. Check oil level in reservoir. Oil may have to be added as air is removed. Reservoir level should be approximately 1/4 full with the plow raised to its maximum height, and 3/4 full when completely down.
- Repeat step #4 until all air has been removed. Check oil level in reservoir each time step #4 is repeated.
- 7. Place the vinyl pump cover on the pump beginning at the reservoir end and working it across and down over the motor end.
- 8. Install one 3/16" drive grease zerk in the hole under the pivot plate on the lower pivot arm.

- 9. Install one 3/16" drive grease zerk in the hole above the pivot plate on the upper pivot arm.
- 10. Install one 3/16" drive grease zerk in the hole in the pivot plate on the upper pivot arm.
- 11. Grease the three zerks.

Installing Hitch Stops:

Hitch stops are provided to assist the operator in lining up the hitch pin holes in the T-mount and receiver hitch when hooking the plow up to the vehicle's receiver hitch.

- With the plow mounted to the vehicle's receiver hitch and the hitch pin in place, position the hitch stops in a vertical position on both sides of the T-mount.
- 2. The stops should rest against the receiver opening.
- 3. Fasten the two stops together with the two 5/16"x2-3/4" bolts and 5/16" lock nuts provided and tighten to secure their position.

Safety Chain:

- 1. Drape the safety chain over the lift cylinder.
- 2. Bring the ends of the chain under the T-mount and hook them in the holes on the hitch (located on each side of the 2" receiver tube.
- Gather the 2 sides of the chain together under the cylinder and fasten with a cable tie.

VERY IMPORTANT!!!

SWITCH THE REMOTE CONTROL TO "OFF"

- \cdot When the plow is not in use
- When unhooking from the plow (after plow has been lowered to the ground)
- · When plow is in storage

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY	
Plow will not raise (will not lower)	1) Disconnected harness	1) Connect harness	
No sound at motor	2) Corroded contacts at harness plug ends	2) Clean & apply dielectric grease	
	3) Corroded eyelets at pump	3) Clean & apply dielectric grease	
	4) Corroded eyelets at battery	4) Clean & apply dielectric grease	
	5) Solenoid has failed	5) Check for bare or exposed wire & repair, replace fuse	
Plow will not raise (will not lower) Solenoid clicks	Corroded contacts at harness plug ends	Take apart, clean & apply dielectric grease	
	2) Corroded eyelets at pump	2) Take apart, clean & apply dielectric grease	
	3) Corroded eyelets at battery	3) Take apart, clean & apply dielectric grease	
Plows descends in jerking motion	1) Oil weight is too light	1) Replace with Lubriplate Special Pour Hydraulic oil (see pg. 4)	
	2) Air in system	2) Remove air by raising the plow to its maximum height, then lower the	
	3) Possible internal bypassing in cylinder	3) Replace cylinder	
Plow descends too fast or slams down	1) Oil weight is too light	1) Replace with Lubriplate Special Pour Hydraulic oil (see pg. 4)	
	2) Air in system	2) Remove air by raising the plow to its maximum height, then lower the plow until the cylinder ram is fully retracted; repeat until all air is removed	
Plow lowers and/or raises too slow	1) Incorrect fluid being used	1) Flush & replace with Lubriplate Special Pour Hydraulic oil (see pg. 4)	
	2) Fitting is restricted	2) Remove fitting, clean, replace & test; if necessary, repeat until system is flushed clean	

