MODEL L-112 LAND LEVELER

HOW TO ORDER PARTS:

Be sure to state MODEL and SERIAL NO. of machine, PARTS NO., DESCRIPTION, and QUANTITY wanted.

Unless this is done, we cannot provide prompt service or assure shipment of the correct parts.

INDEX

PAGE NO.

ASSEMBLY INSTRUCTIONS FOR MODEL L-112 LANDLEVELER

1. Pack all wheel bearings with good quality wheel bearing grease and assembly bearings, seals, and hubs to axle spindles. Tighten adjusting nut, then loosen one or two castellations. Install cotter pin and hub cap.

2. Mount tires on rims and inflate to 35 p.s.i. Assemble tires and wheels to hubs of rear frame section and front pole.

3. Remove cast socket halves from gooseneck post. Roll front axle assembly under gooseneck and place cast socket halves around ball swivel and insert back into post. Be sure the socket half with the grease hole is to the rear of the post. Secure with 5/8" x 4" bolts. Install long shank grease fitting.

4. Connect rear frame section to front frame section using 1½" x 6" pins. Lock pins in position using ½" x 1" NC capscrews.

5. Raise frame and slide moldboard under. Connect moldboard to frame brackets using ¾" x 2 ½" bolts, flat washers and lock washers at the bottom. Install the adjustable tilt brackets to the mold board using the ½" x 2 ½" bolts and lockwashers. Install ½" x 2 ½" bolts into the desired hole setting on tilt bracket and fasten to frame bracket.

6. Install end plates to moldboard using ¾" x 1 ½" bolts and ½" x 1 ½" into the desired hole setting to keep bottom of plate level.

7. Connect one end of end plate brace to frame with 5/8" x 2" bolt. Connect opposite end to end plate with 5/8" x 1 ½" bolt..

8. Install the depth gauge pointer to the rear frame cross members with the pointer facing forward and downward using 3/8" x 1" bolts. After the leveler is actuated with the hydraulic system a dark marking should be made on the quadrant to align the pointer with the blade at ground level.

9. Install the hydraulic cylinder with the piston rods to the rear. Secure the pins with the clip pins provided. Install the 3/8" 90° swivel adapters into the cylinder ports.

10. Install the 3/8" x 24" hydraulic hoses to the cylinders and oil lines, making sure the hoses from the rear cylinder ports are connected to the same line.

11. Connect land leveler to tractor hydraulic system and raise and lower the leveler several times to the extreme limits of the cylinders to remove all air which may be trapped in the lines.

12. With the leveler in a partially raised position and over a level surface, the distance from the floor to each end of the blade should be equal. Adjustment , if necessary is made at the slotted holes at each end of the moldboard where attached to the frame brackets.

13. Retighten all bolts after a few days of operation

IMPORTANT: It is necessary to bleed the air from the hydraulic lines for smooth operation. Loosen the swivel adapters from the hoses at each hydraulic cylinder and release all air and foam which is trapped.

ASHLAND INDUSTRIES
P. O. BOX 717
Ashland, Wisconsin 54806

OPERATING INSTRUCTIONS FOR ASHLAND LAND LEVELER, Model L-112

Land forming is becoming more and more important with each passing year to obtain increased yields per acre. By leveling your fields, you are able to eliminate wet spots and low areas, thereby enabling earlier seed bed preparation, elimination of drowning out your crop, proper cultivation during early growth, and assured harvest of your crop at the proper time.

Land leveling permits faster travel speeds of equipment, which is very important, especially in harvesting when getting the crop off while the weather is suitable can often mean the difference between profit or loss.

Ashland Land Levelers are designed for maximum leveling effectiveness with a minimum of power and expense. With proper location of blade on the long rigid box frame, positive leveling action is obtained which is difficult to maintain in competitive makes of machines using numerous pins and linkages to control the action of the blade.

By its very simple design and construction, the Ashland Land Leveler requires very little operating skill. However, the following procedure should aid the operator just beginning to level.

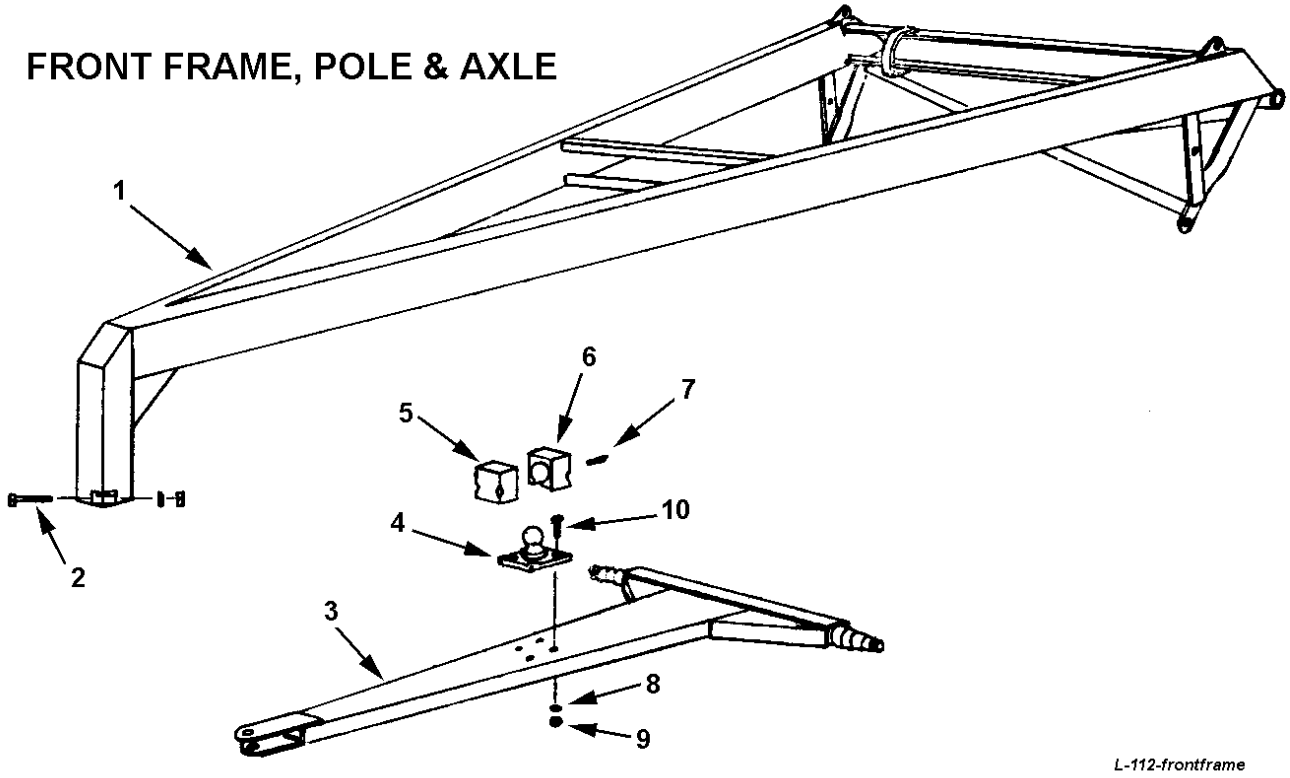
> When the land leveler is being set up, care should be taken that the blade is level with the rear wheels. This should be checked before the unit goes out into the field. The unit should be run over a flat slab of concrete and with the blade in a partially raised position. A measurement should be made at each end of the blade and adjusted accordingly. The measurement should be the same on each side. The adjustment is made at the slotted hole in the moldboard where attached to the frame standard. With the land leveler in ground level position, the indicator should be either bent or a marking made accordingly to show level position on the indicator.

The field to be leveled should be plowed and disked to give your Ashland Land Leveler the effectiveness which it is designed for. The land leveler will drag the worked up ground off the high spots in your field and deposit it in the low spots.

If the field to be leveled has never been leveled and certain areas are quite irregular, it will be advantageous to work over these small areas first. In doing so, it will be necessary for the operator to control the blade with the hydraulic control to obtain the most efficient use of the machine. Due to the length of the machine, the depth of cut will increase automatically when traveling over high sports or rises in the field and generally it will be necessary for the operator to raise the blade slightly depending on how large a tractor is being used. When traveling through a low area or dip in the field, the load in front of the moldboard will empty. Some operators feel this should not occur, however, this shows that dirt is being deposited in the low area which is the primary purpose of the land leveling.

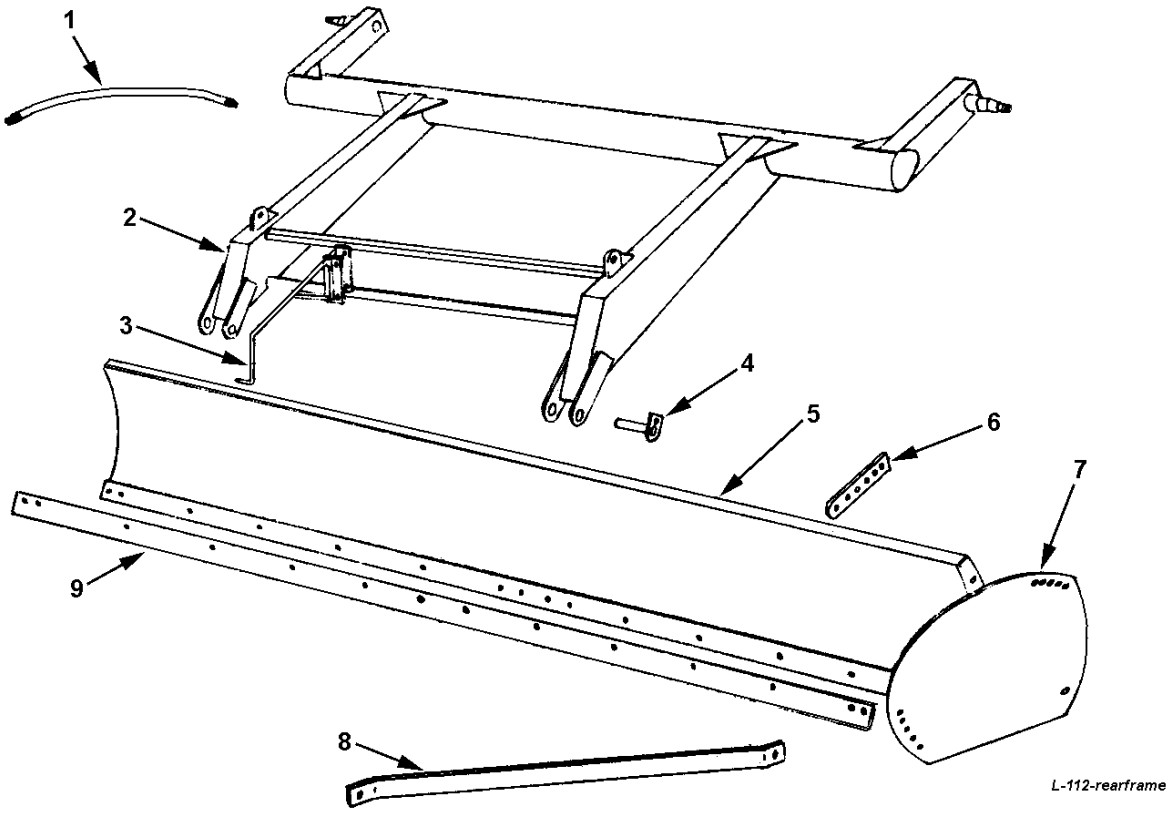
In areas of severe irregularity, the above operation should be repeated until the desired contour of the land is obtained. The entire field should then be gone over one or more times as desired. Once your fields have been leveled, you will find it necessary to repeat the planing operation the following year because the dirt deposited in the low areas will tend to settle, therefore repeated operation is necessary.

FRONT FRAME, POLE & AXLE

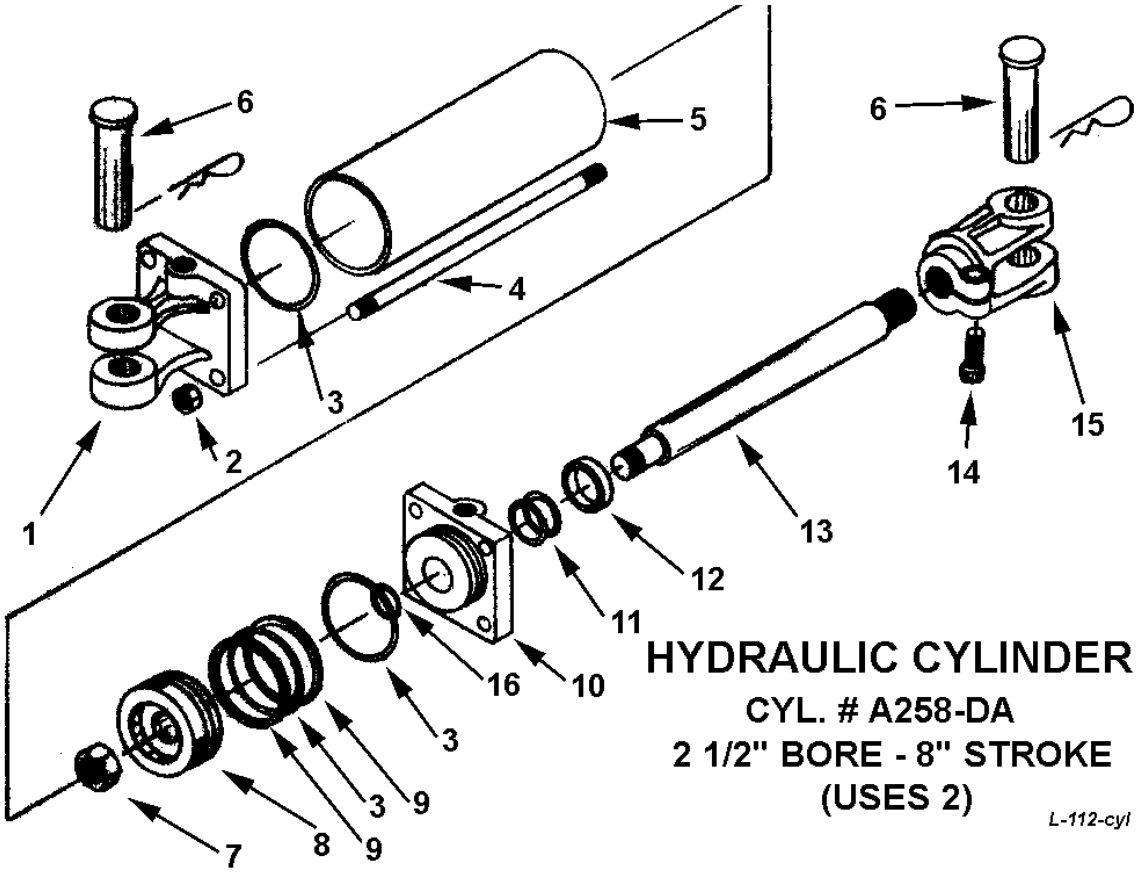


KEY NO.	PART NO.	DESCRIPTION
1	A1251	Front frame section
2		Bolt, 5/8" NC x 3-1/2" w/ nut & lockwasher
3	A1202	Pole & axle
4	A40006	Ball swivel, 1-1/4" NF thread
5	A40004	Cast socket half
6	A40005	Cast socket half w/ zerk hole
7	A2206	Zerk, 1/8" NPT w/ long shank
8		Lockwasher, 3/4" NC
9		Nut, 3/4" NC
10		Machine Bolt, 3/4" NC x 2-1/2"

REAR FRAME & MOLDBOARD



KEY NO.	PART NO.	DESCRIPTION
1	A45H06	Hydraulic hose, 1/2 x 24 (4 req'd)
2	A1252	Rear frame section
3	A908	Depth gauge pointer
4	A911	Pin, 1-1/2" x 6" with grease hole (2 req'd)
5	A1253	Moldboard
6	A907	Tilt bracket (2 req'd)
7	A910	Moldboard end plate (2 req'd)
8	A1214	End plate brace (2 req'd)
9	A12S02	Cutting edge
		Plow Bolt, 1/2" NC x 1-3/4" (14 req'd)



HYDRAULIC CYLINDER

CYL. # A258-DA

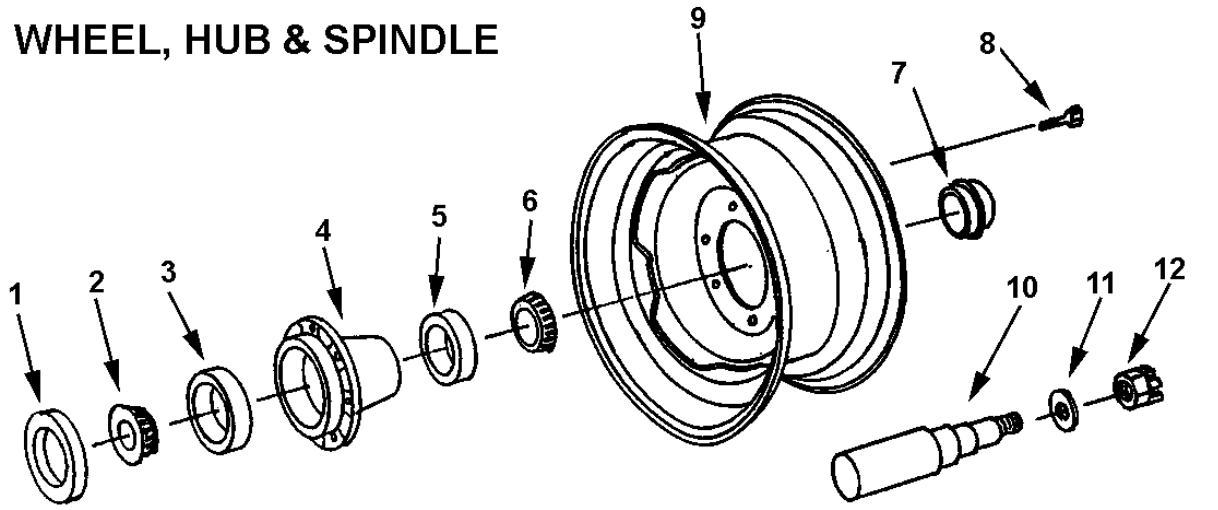
2 1/2" BORE - 8" STROKE

(USES 2)

L-112-cyl

KEY NO.	PART NO.	DESCRIPTION
1	A9H15	Base end clevis
2		Nut, 3/8" NC
3	A22H22	O-ring, 2-1/2" OD x 3/16"
4	A9H16	Tie rod
5	A9H17	Barrel, 2-1/2" ID
6	A912	Pin, 1" dia., w/ clip pin
7	A9H18	Piston nut
8	A9H19	Piston, 2-1/2" dia.
9	A22H21	Back up washer, 2-1/2" OD
10	A9H20	Head gland
11	A9H21A	Shaft seal, 1-1/16"
12	A9H22A	Wiper seal, 1-1/16"
13	A9H23A	Shaft, 1-1/16"
14		Capscrew, 5/16" NC socket head
15	A9H24	Clevis end
16	A9H25	Piston gasket
	A9H26	Packing kit containing:
		3 A22H22 1 A9H21 2 A22H21
		1 A9H22 1 A9H25

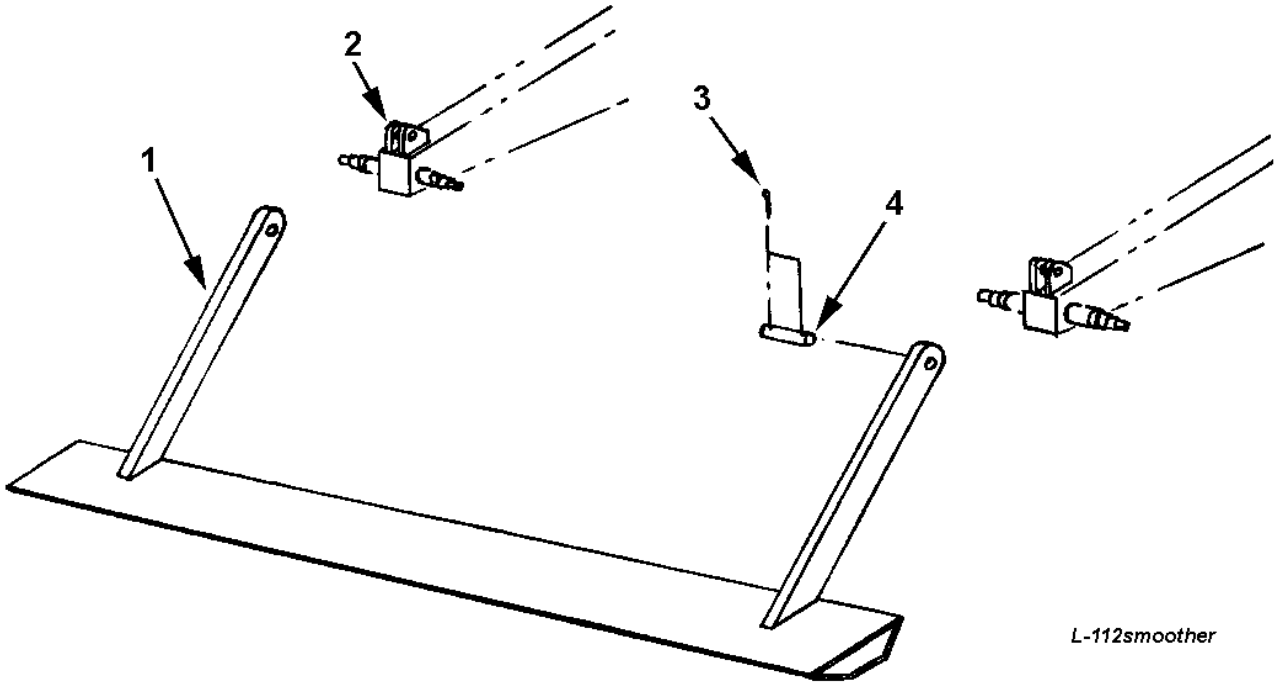
WHEEL, HUB & SPINDLE



L-112-wheel

KEY NO.	PART NO.	DESCRIPTION
1	A2229	Grease seal
2	A2230	Bearing cone (inner)
3	A2231	Bearing cup (inner)
4	A2232	Hub, less bearings
5	A2233	Bearing cup (outer)
6	A2234	Bearing cone (outer)
7	A2235	Hub cap
8	A2236	Wheel bolt
9	A3319	Wheel, 15" x 6"
10	A2238	Spindle
11	A2239	Washer, special 7/8" flat
12		Nut, 7/8" NF castellated
		Cotterpin, 3/16" x 1-1/2"

OPTIONAL SMOOTHER ATTACHMENT



KEY NO.	PART NO.	DESCRIPTION
1	A11209	Smoother shoe
2	A11210	Bracket - Field installation
3		Cotter pin, 3/16" x 1-1/2"
4	A2508	Pin, 1" dia.