

I-110XL2 PARTS MANUAL

ver 0109-22128



Ashland Industries Inc. 1115 Rail Drive P.O. Box 717

Ashland, WI. 54806

Ph: 877-634-4622 Toll Free

Ph: 715-682-4622 Fx: 715-682-9717 www.ashlandind.com





How to Order Parts



HOW TO ORDER PARTS:

IMPORTANT

Parts must be ordered through your local authorized ASHLAND dealer.

Be sure to state MODEL and SERIAL NUMBER of your machine, PART NUMBER, DESCRIPTION and QUANTITY needed.

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

Ashland Industries weldable replacement parts are available to rebuild, modify or update your scraper to current factory specifications.

Index

Page 2.	Safety Guidelines
Page 3.	Operators and Maintenance Instructions
Page 4.	Assembly-Illustration
Page 5.	Gooseneck Frame Assembly – Illustration and Parts List
Page 6.	Apron Assembly – Illustration and Parts List
Page 7.	Bowl and Frame Assembly – Illustraton and Parts List
Page 8.	Push Off Gate Assembly – Illustration and Parts List
Page 9.	Pole and Axle Assembly – Illustration and Parts List
Page 10.	Front Wheel and Hub Assembly – Illustration and Parts List
Page 11.	Rear Wheel, Spindle and Hub Assembly – Illustration and Parts List
Page 12.	Hydraulic Cylinder (Apron), 4" X 13", Illustration and Parts List
Page 13.	Hydraulic Cylinder (Lift), 4" X 16", Illustration and Parts List
Page 14.	Hydraulic Cylinder (Pushoff), 4 x 54", Illustration and Parts List
Page 15.	Grease Locations
Page 16-18.	Hydraulic Valve, Identification, Illustration, Parts List and Adjustment
Page 19-22.	Service Manual Appendix
Page 23.	Troubleshooting
Page 24.	Warranty Statement

Safety Signal Words



SAFETY SIGNAL WORDS

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

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious

injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



GENERAL SAFETY GUIDELINES

Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not attempt to operate this equipment under the influence of drugs or alcohol.

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons** to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.

To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**

Ashland Industries Page #2 Toll-free:877-634-4622 Fax:715-682-9717

Operators & Maintenance Instructions

OPERATORS AND MAINTENANCE INSTRUCTIONS

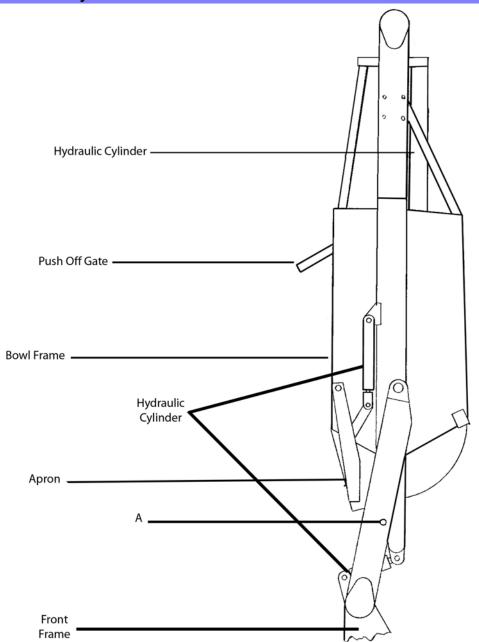
This scraper is a durable piece of equipment and with proper care will yield many years of trouble free operation. The scraper requires a power source with TWO 4 way (double acting) hydraulic control valves.

The scraper should be greased at all points where grease fittings are provided. Connect hydraulic hoses to the tractor and retract lift cylinders to **REMOVE TRANSPORT LOCK PINS**, then extend and retract all cylinders several times to force out any air from the hydraulic cylinders and lines. Check the oil levels in the tractor hydraulic system and add to maintain the proper level. Care should be used when adding oil or when disconnecting any oil line to keep all dirt out of the oil as dirt is a major factor in the failure of hydraulic components.

When the scraper is placed into operation, the operator will have to "feel out" the amount of depth of cut to obtain maximum loading efficiency. This is usually accomplished by taking a lesser and more uniform cut; however, some soil conditions such as loose sand may require a "pumping action" obtained by taking successive deep cuts and lifting out of cut as the tractor begins to lose power or traction.

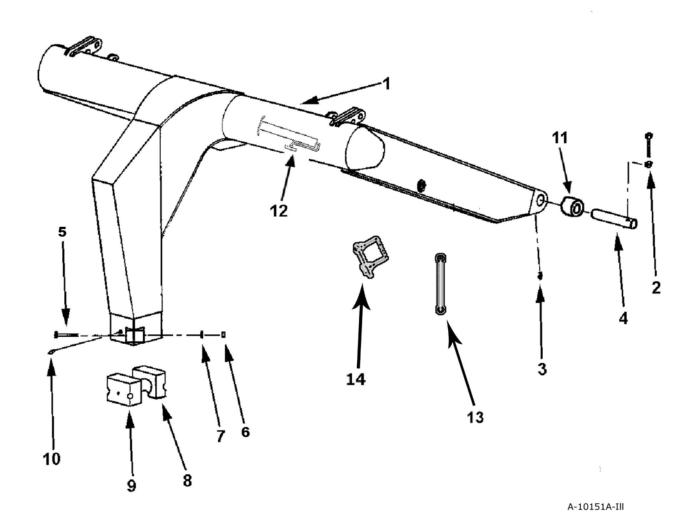
- After 10 hours work, all bolts should be checked and tightened if necessary.
- 2. Every 10 hours all grease fittings should be lubricated.
- 3. After 50 hours work, all bolts should be rechecked and tightened if necessary. Check wheel bearings and adjust if necessary.
- 4. After 300 hours work, clean and repack wheel bearings and replace, if necessary, cutting edges, worn pins, etc.

Illustration Assembly



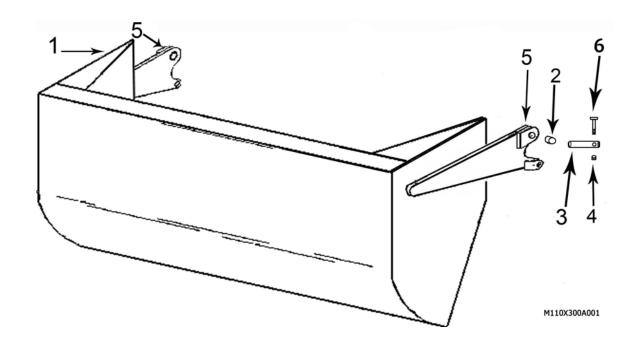
I-Series Assembly-ILL

Gooseneck Frame Assembly



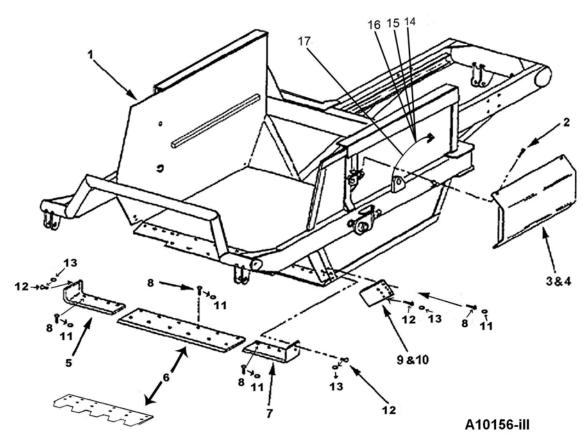
Key Number	Part Number	Description
1	A10151A	Gooseneck frame, s/n 17816 & up
2	AFB-00054	Bolt, 1/2" NC x 3-1/2" w/ 7500 Nut
3	AHF-00028	Fitting, Grease 90° 1/8 NPT
4	A10152A	Pin, Frame attachment, 2" OD x 8-1/16" Long
5	AFB-00069	Bolt, 3/4" x 4-1/2" gr. 8 NF
6	AFN-00030	Nut, 3/4" NF
7	AFW-00002	Lockwasher, 3/4"
8	A10004A	Cast socket half, rear
9	A10005A	Cast socket half, front w/ zerk hole
10	A2206	Grease zerk, long shank
11	A14039	Bushing, 2.375 OD x 2.00 ID x 2" Long, Grease Passage
12	OPT-00001	Hitch jack
13	A030672-33	Dog Bone
14	A125006	Safety Snap Pin

Apron Assembly 110XL2



Key Number	Part Number	Description
1	A123340	Apron
2	A123343	Bushing: 2" OD X 1 1/2" ID X 1 3/4" L
3	A123337	Pin: 1 1/2" X 5 3/8" L
4	7450	Nut: 3/8 NC
5	14505	Grease Fitting
6	AFB-00049	Bolt: 3/8 NC X 3"

Bowl & Frame Assembly

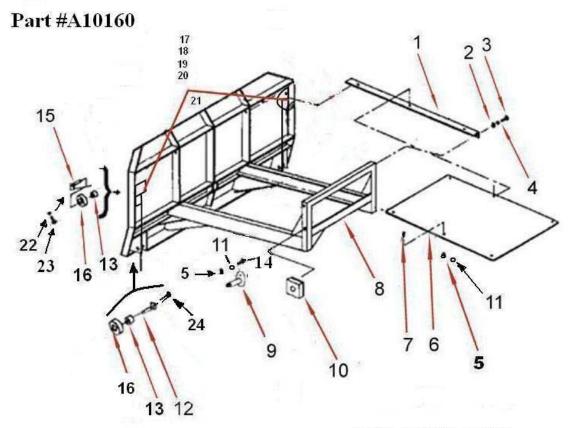


Blade Bolts Required:

A123331 (& Ser)	PB9P-NC-088-0275	<u>Oty</u> (12)
A123332L & R	PB9P-NC-088-0275 PB9P-NC-088-0225	(4) (2)
A123338L & R	PB9P-NC-088-0275 PB9P-NC-088-0225	(4) (3)

	PB9P-NC-088-02.	25 (3)
Key Number	Part Number	Description
1	A10156	Bowl and Frame I-110XL2
2	AFB-00094	Flange Bolt, 3/8" NC x 1"
3	A123309-62L	Apron Cylinder Guard Left
4	A123309-62R	Apron Cylinder Guard Right
5	A123332R	Right cutting edge, 8"
6	A123331	Center cutting edge, 13" x 54"
	A123331SER	Optional Serrated cutting edge 13" X 54"
7	A123332L	Left cutting edge, 8"
8	PB9P-NC-088-0275	Plow bolt, 7/8" NC x 2-3/4"
9	AFN-00019	Nut: 7/8" NC (12 req'd./ center blade)
10	PB9P-NC-088-0225	Plow bolt, 7/8" NC x 2-1/4"
11	AFN-00026	Nut: 7/8" NC Jam
12	A123338L	(Optional) Left Bank Shaver Side Blade
13	A123338R	(Optional) Right Bank Shaver Side Blade
14	A125019	Grease Fitting
15	A125026	Bulkhead Nut
16	A123309-89	Single Hole Tab
17	A125022	18" Grease Line
		Page #7 Tall (12 - 077 00 4 4000

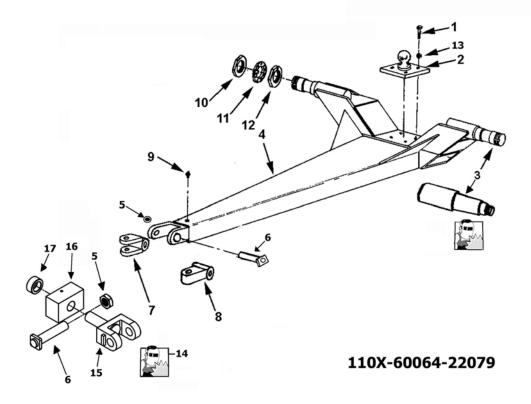
Push Off Gate



110X-A10160-22128

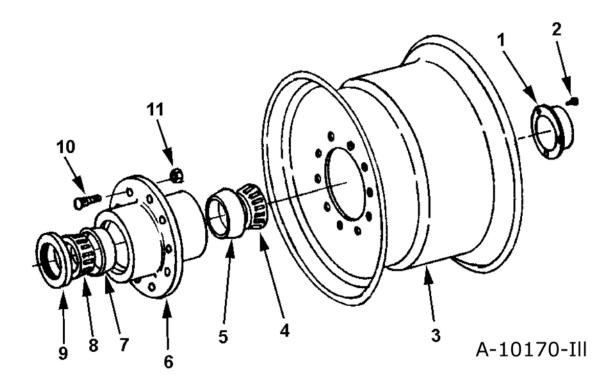
Key Number	Part Number	Description
1	A10159	Brace (L.H. & R.H. same)
2	AFN-00006	Nut: 3/4" NC
3	AFB-00037	Bolt: 3/4" NC X 2" lg
4	AFW-00002	Lockwasher: 3/4"
5	7500	Nut: 1/2" NC
6	A10171	Dirt Shield
7	AFB-00019	Bolt: 1/2" X 1/2" NC
8	A10160	Push Off Gate: Model I110
9	A123305A	Pin: 1 1/4" X 2 3/4"
10	A123353	Wear Pad
11	8100	Lockwasher: 1/2"
12	A123323-21	Pin: Lower Roller 1 1/4" X 5 1/4"
13	A10163	Bushing: 1 /34' OD X 1 1/4" ID
14	AFB-00033	Bolt: 1/2 NC X 2 1/2"
15	500465	Pin: 1 1/4: X 7"
16	A10164	Roller: 4 1/4 OD X 1 3/4" ID
17	A125020	32" Grease Line
18	A123323-40	Double Hole Tab
19	A125026	Bulkhead Nut
20	A125021	54" Greaseline
21	A125019	Greasefitting 1/4-29 54 Lg.
22	A123358	Pin Keeper Bushing
23	AFB-00079	Bolt: 5/8" NC X 1 1/2" gr. 8
24	AFP-00001	Cotter Pin: 1/4 X 3 1/2"

Pole & Axle Assembly



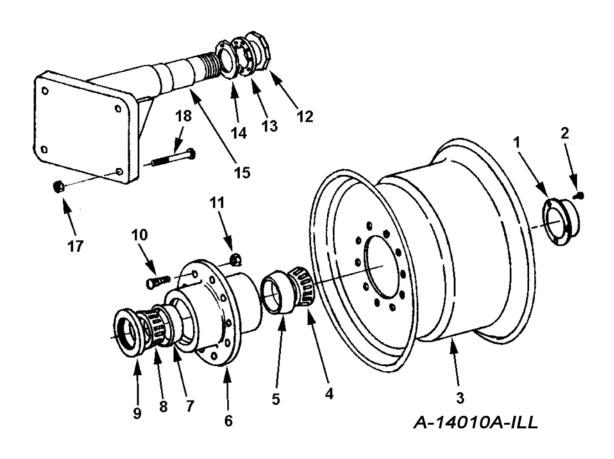
Key Number	Part Number	Description
1	AFB-00005	Bolt, 3/4" NC X 2 1/2"
2	A10035	Ball Swivel
3	A14021	Spindle Only (Weldable)
4	A10181	Pole
5	500433	Nut: Lock
6	600053	Pin: Swivel Hitch
7	A10033	Double Lip Clevis
8	A10033A	Single Lip Hitch
9	14505	Grease Fitting
10	A10048	Spindle Nut
11	A10049A	Lock Collar
12	A10172	Nut w/lock pin
13	AFW-00002	Lockwasher, 3/4"
14	600064	Yoke Hitch Rebuild Kit (Contains items 5,6,15,16,17)
15	A030168-3A	Swivel Yoke Assembly
16	A030172-11	Swivel Block
17	A030568-01	Hitch Collar

Front Wheel & Hub Assembly



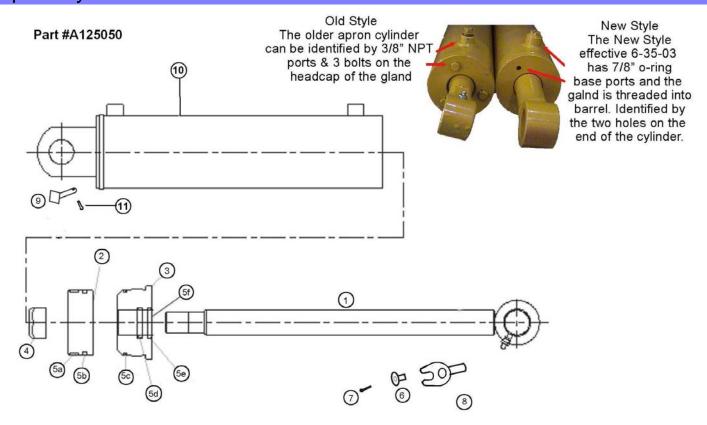
Key Number	Part Number	Description
1	A14004	Hub cap
2	AFB-00080	Bolt, 5/16 NC x 1/2 lg.
3	A10170	Wheel, 14 x 16.1
4	A14015	Bearing cone (Timken 644)
5	A14014	Bearing cup (Timken 632)
6	A14010A	Hub
7	A14013	Bearing cup (Timken 742)
8	A14012	Bearing cone (Timken 749)
9	A14011	Grease seal (CR 42624)
10	A10176	Stud
11	A10046	Lug nut

Rear Wheel Spindle & Hub Assembly



Key Number	Part Number	Description
1	A14004	Hub cap
2	AFB-00080	Bolt, 5/16 NC x 1/2 lg.
3	A10039	Wheel, 16 x 26 Drop Center
4	A14015	Bearing cone (Timken 644)
5	A14014	Bearing cup (Timken 632)
6	A14010A	Hub, Blank, less cups + studs
7	A14013	Bearing cup (Timken 742)
8	A14012	Bearing cone (Timken 749)
9	A14011	Grease seal (CR 42624)
10	A10176	Stud
11	A10046	Lug nut
12	A10048	Spindle nut
13	A10049A	Lock collar
14	A10172	Nut w/ lock pin
15	A14037	Spindle
17	AFN-00001	Nut: 1" NF Top Lock
18	AFB-00017	Bolt, 1" NF x 6-1/2" lg.

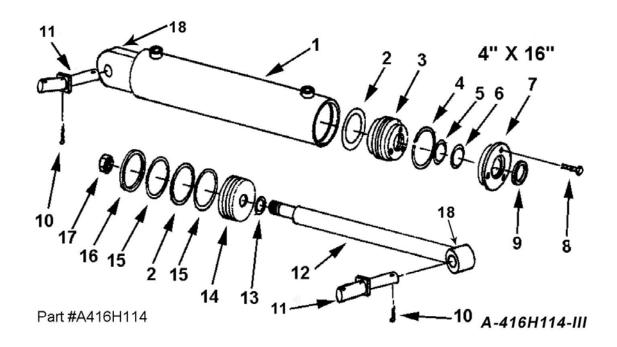
Apron Cylinder 4" x 13"



A-125050-III

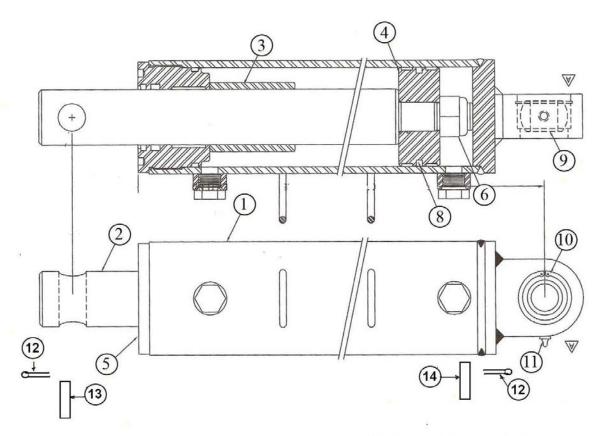
Mars Name Is an	David Named an	Description
Key Number	Part Number	Description
1	A125050-01	Rod 1-3/4" with welded eye
2	A125050-02	Piston
3	A125050-03	Gland, Threaded
4	A125050-04	Lock Nut, 1-1/8" NF
5	A125050-05	Seal Kit, a-f
5a	A125050-05a	Nylon Wear Ring
5b	A125050-05b	FSP Seal
5c	A125050-05c	O-Ring
5d	A125050-05d	Backup Washer
5e	A125050-05e	Hallite Rod Seal
5f	A125050-05f	Snap-in Rod Wiper
6	A123351	Pin Keeper Bushing
7	AFB-00015	1/2" X 1 1/2" Gr 8 Bolt
8	A123362	Rod End Pin 1 1/2 X 4 1/2
9	A123363	Barrel End Pin 1 1/2 X 4 18 Sq. Head
10	A125050-06	Cylinder Barrel
11	8602	Cotter Pin

Hydraulic Cylinder Dig & Lift Circuit



Key Number	Part Number	Description
1	A45H04A	Barrel Assembly -2" ear 1 1/4" hole
2	A300H06	O-ring, 4" OD x 3/16"
3	A300H11	Head gland
4	A300H12	Retainer ring
5	A22H15	O-ring, 1-1/2" ID x 1/8"
6	A22H15A	Backup washer
7	A300H13	Head cap
8	A22H18	Capscrew, 1/4" x 1"
9	A22H17	Wiper seal, 1-1/2" ID
10	8602	Cotter pin, 1/4" x 2"
11	A123383	Pin, 1-1/4" x 7" w/ square head (for units w/Dog Bone, 06/04)
12	A45H03-114	Shaft, 1-1/2" diameter
13	A45H05	Piston gasket, 1" ID
14	A300H07	Piston, 4"
15	A300H05	Backup washer, 4" OD
16	A300H04	Cast iron ring, 4" OD
17	A300H03	Piston nut
18	14505	Grease fitting
	A300H14B	Packing kit containing: *See Note*
		1- A300H04 2- A-22H15 2 - A300H05 1-A22H15A
		2-A300H06 1-A22H17 1-A45H05

Pushgate Cylinder

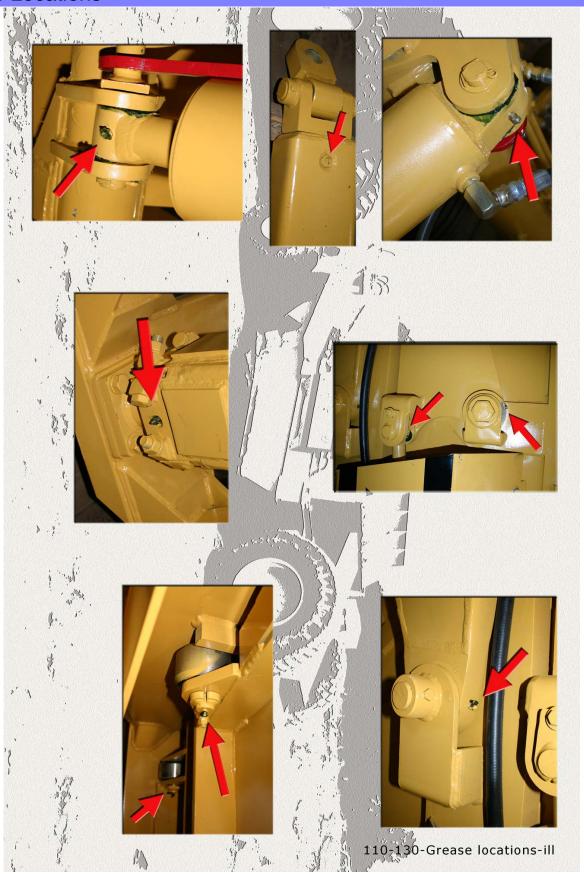


Part # A125176

110X-A125176-22037

-	*****	
Key Number	Part Number	Description
	A125176	Pushgate Cylinder
1	A125176-10	Barrel Weldment
2	A125176-20	Shaft
3	A125176-32	Spacer
4	A125176-30	Piston
5	A125176-31	Head
6	A125175-33	1 1/4" Nylock Nut
7	A125176-40	Seal Kit
8	A125175-35	Bearing
9	A125175-36	Snap Ring
10	A125175-37	Grease Zerk
11	8602	1/4" X 2" Cotter Pin
12	A14033	Pin: Rod End
13	A9024	Pin: Barrel End

Grease Locations



Hydraulic Manifold Assembly



IMPORTANT: This Hyd. Manifold was integrated into production April, 2006 It replaces A125070 valve.

For older machines see master parts book on Ashlandind.com.

HYDRAULIC MANIFOLD ASSEMBLY A125174 SETTING THE APRON AND PUSHOFF VALVE

The manifold block containing the pushoff sequence valve cartridge and apron sequence valve cartridge is used to control two hydraulic circuits with one hydraulic remote. When the tractor hydraulic remote is activated, oil flows first to the apron cylinders until they are fully extended. Once the cylinders are fully extended, the apron circuit's hydraulic pressure begins to increase. Once the pressure threshold is surpassed (which is adjustable, see adjustment section), the sequence valve diverts the oil flow to the pushoff's hydraulic circuit. Once the push off is completely extended, the operator then reverses the tractor's hydraulic remote. The counterbalance valve will hold the apron open until the push off is fully retracted. The Apron sequence valve then opens and allows the apron to close.

Setting the valves:

STEP 1 PUSHOFF SEQUENCE VALVE

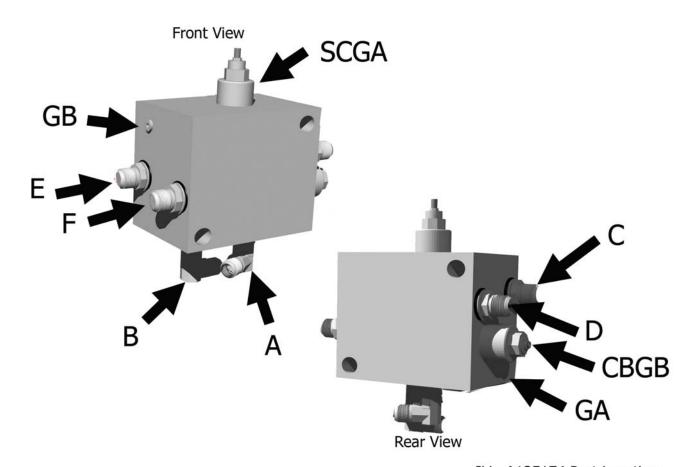
Loosen the lock nut (9/16") on the sequence valve cartridge. Turn the setscrew (4mm) clockwise until the front apron rises before the push-off begins to advance. (Earthmover should be empty) Turn the adjustment screw an additional 1/4 turn clockwise and tighten jam nut.

STEP 2 COUNTER BALANCE VALVE

Loosen the lock nut (9/16") on the counterbalance valve cartridge. Turn the setscrew (4mm) counterclockwise until the apron holds in a raised position while rear gate is being retracted. Turn adjustment screw an additional 1/4 turn, tighten jam nut. DO NOT tighten adjusting screw more than necessary.

Key Number	Part Number	Description
1	A125162-01	COUNTER BALANCE CARTRIDGE
2	A125162-02	SEQUENCE CARTRIDGE

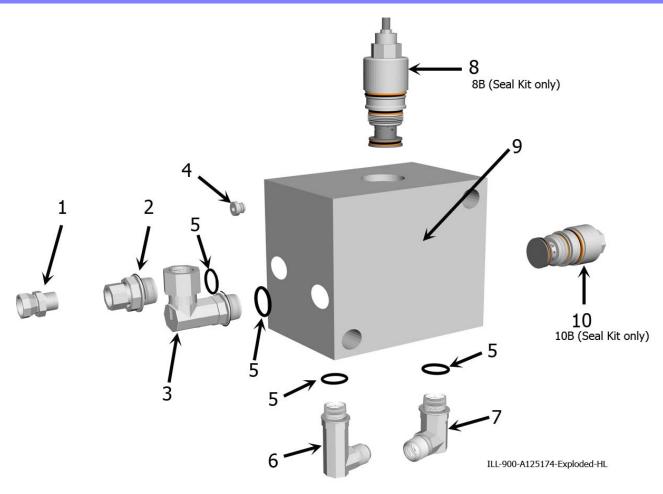
Hydraulic Valve Assembly Ports



ILL. A125174 Port Location

Key Number	Description
Α	Supply Line
В	Pushoff Cyl. (Rod End) - Apron Cyl., Right Side (Rod End) - Supply Line
С	Pushoff Cylinder (Base End)
D	Apron Cylinder, Right Side, (Base End)
E	Apron Cylinder, Left Side, (Rod End)
F	Apron Cylinder, Left Side, (Base End)
CBGB	Counterbalance Valve, adjustable
SCGA	Sequence Valve, adjustable
GA	Pressure test port
GB	Pressure test port

Hydraulic Valve Seal Kit



<u>ITEM</u>	PART NO.	DESCRIPTION
1	AHA-00076	Adapter: Str. Swiv ½ MP X ½ FP. 109 Rest
2	AHA-00043	Adapter: Str. Sw. 1 1/16 M ORB X ½ FP
3	AHA-00048	Adapter: 90 Deg. Swiv. 1 1/16 M ORB X ½ FP
4	AHA-00046	6 ORB Plug
5	AHS-00153	O-ring for 12 M ORB Fitting
6	AHA-00047	Adapter: 90 Deg. XL ¾ MJ X 1 1/16 M ORB
7	AHA-00044	Adapter: 90 Deg. 3/4 MJ X 1 1/6 M ORB
8	A125162-02	Valve: Sequence Cartridge for Ver. III & IV
9	A125174	Valve: Manifold Block IV Body
10	A125162-01	Valve: Counterbalance Cartridge for Ver. III & IV
Seal Kits:	A125162-01KIT A125162-02KIT	Seal Kit for A125162-01 Valve Cartridge Seal Kit for A125162-02 Valve Cartridge

Maintenance check list

MAINTENANCE CHECKLIST

- 1. Grease all zerks.
 - a) Every 8 hours of operation.
 - b) See Lubrication Points section on next page.
- 2. Greasing the hubs.
 - a) Re-pack wheel bearings after 600 hrs of operation.
 - b) Completely clean grease out of hub and bearings every 1200 hours of operation.
- 3. Check tire pressure.
 - a) 20.5 25, 12-ply tire requires a tire pressure of 35-40 psi on a rear machine, 40-50 on a front machine.
- 4. Check all pins for signs of wear.
 - a) Daily
- 5. Check wheel lug nut torque.
 - a) After first 2 hours of operation.
 - b) Recheck daily for next 2 weeks.
 - c) Tighten wheel lug nuts in a star pattern.
 - d) Torque wheel lug nuts to 450 ft-lbs.
- 6. Check and retighten all bolts.
 - a) After initial 10 hours of use.
 - b) Again after 50 hours of use.
 - c) See Torque Specifications on next page.
- 7. Inspect cutting edges.
 - a) Daily
 - b) Replace cutting edges when center blade has been worn to approximately 6" and side edges worn to approximately 4".



CAUTION! Failure to replace worn cutting edges may result in unnecessary

wear to the earthmover sides and floor.

Note: Please specify left or right "L" shaped cutting edges when ordering replacements.

Torque Specifications

Bolt	Torque
Diameter	Ft-lbs
1/4	12
5/16"	25
3/8"	45
7/16″	70
1/2"	110
9/16"	150
5/8"	220
3/4"	380
7/8″	600
1"	900
1-1/8"	1280
Lug Nuts	750

LUBRICATION

- 1. Grease all zerks every 8 hrs of operation with high quality, general-purpose grease.
 - a) Grease until grease flows from around pin.

<u>Lubrication Points</u> (see III.)

- 1. Hitch Horizontal and vertical pins.
- 2. Lift Cylinders Rod end &Trunion; Both left & right sides.
- 3. Front Arm Pivot Joint Both left & right sides.
- 4. Apron Cylinders Rod clevis pin; Both left & right sides.
- 5. Apron Pivot Pin Both left & right sides.
- 6. Hold-down Rollers Both left & right sides.
- 7. Floor Rollers Both left & right sides.
- 8. Tapered Rollers Both left & right sides.

Safety-Tire Warning

WARNING



Check Tires and Wheels

The task of servicing tires and wheels can be extremely dangerous and should be performed by trained personnel only, using the correct tools and following specific procedures. Do not attempt to mount, demount or inflate a tire if you do not have the proper equipment and experience to perform the job. Call a qualified repair service to inspect the assembly and make necessary repairs. Failure to heed warnings could lead to serious injury or death.

Visually inspect tires and wheels daily. Carefully inspect any rim and tire assembly that has been run underinflated or flat before reinflating the tire to make sure there is no damage to either the rim or tire.

- ALWAYS wear personal protection equipment such as gloves, footwear, eye protection, hearing protection and head gear when servicing tire and wheel components.
- DO NOT operate with damaged rims, tire cuts or bubbles, missing lug bolts or nuts or damaged rims.
- ALWAYS maintain the correct tire pressure. NEVER exceed recommended tire inflation pressure.
- INSPECT any rim and tire assembly that has been run flat or severely underinflated before reinflating the tire. Damage to the rim and tire may have developed.
- NEVER reinflate a tire that has lost air pressure or has been run flat without determining and correcting the problem.
- NEVER try to repair wheel, rim, or tire components parts. Parts that are cracked, worn, pitted with corrosion, or damaged must be discarded, and replaced with good parts.
- ALWAYS use approved tire and rim combinations for the model scraper that you have and verify that part numbers of components are correctly matched for the assembly.
- ALWAYS exhaust all air from the tire prior to demounting.
- ALWAYS place wheel and tire assemblies in restraining devices (safety cage) when
 inflating tires. Use a clip-on chuck and long extension hose to allow you to stand to the
 side of the tire and not in front of it.
- NEVER weld or cut on an inflated tire assembly. Welding heat can cause increased pressure which could result in tire explosion.
- ALWAYS use proper lifting techniques, and mechanized lifting aids to move heavy components and assemblies.
- NEVER leave a tire, wheel, or assembly unsecured in a vertical position.
- ALWAYS take care when moving tires and wheels that other people in the area are not endangered.

Pushing the Earthmover



PUSHING THE EARTHMOVER

The I-110XL was designed to be pushed when equipped with the optional push-bar. However, Ashland Industries, Inc. **STRONGLY** recommends using extreme caution when pushing the I-110XL earthmover to prevent any unnecessary damage.

CAUTION! The I-110XL earthmover must be pushed in a straight line with a maximum of a 100 hp dozer. Do not ram or jar the earthmover while pushing and push at a constant speed.

Troubleshooting

TROUBLESHOOTING

Introduction

With proper care and maintenance, the I-110TS will give many years of reliable service. When a situation arises where the earthmover performance is not satisfactory, this section will give some pointers on finding and correcting the problem.

Grease zerk will not take grease.

- 1. Grease zerk plugged.
 - a) Remove and replace grease zerk.
- 2. Pin is frozen.
 - a) Remove, clean, and inspect pin.
 - b) Replace pin if necessary.
- 3. Bushing grease passage is not aligned with grease zerk.
 - a) Remove, clean, inspect, and realign bushing.
 - b) Replace bushing if necessary and realign.

Push-off rollers do not roll.

- 1. The rollers need lubrication.
 - a) Check zerk hole and grease.
 - b) Remove pin, clean, inspect, and replace if necessary.
- 2. The roller bushing is worn out.
 - a) Remove roller assembly and replace bushing.
 - b) See parts manual.

Cylinders will not hold in preset position, i.e. the cylinder creeps.

- 1. Seals leaking internally.
 - a) Remove and replace seal kit.

Machine cuts unevenly.

- 1. Cutting edges worn unevenly.
 - a) Replace cutting edges.
- 2. Improperly inflated tires.
 - a) Check air pressure in tires.

Warranty Statement

Limited Warranty Statement

Ashland Industries Inc. warrants each new product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the product or components, not to exceed **six consecutive months** from the date of delivery of the new Ashland Industries product to the purchaser, or the date the product is first put into service via a rental agreement or other means, whichever occurs first.

The major components of swivel hitches used on Industrial series scrapers are warranted for three consecutive months from the date of delivery of the new Ashland Industries product to the purchaser, or the date the product is first put into service via a rental agreement or other means, whichever occurs first, except those components described below.

Genuine Ashland Industries Inc. replacement parts and components will be warranted for 30 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Under no circumstances will it cover any merchandise or components thereof, which in the opinion of the company, has been subjected to misuse, unauthorized modification, alterations, an accident or if repairs have been made with parts other than those obtained through Ashland Industries Inc.

Ashland Industries Inc. in no way warrants tires since their respective manufacturer warrants these items separately. Please call Ashland Industries Inc. to receive phone numbers of tire suppliers.

Ashland Industries Inc. in no way warrants wearable items such as cutting edges, front dolly wheel balls, socket halves, rollers, bushings, yoke hitch pins, hitch bushings, etc.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in our judgment, shall show evidence of such defect, provided further that such part shall be returned within 30 days from the date of failure to Ashland Industries Inc. routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. Upon warranty approval proper credits will be reimbursed for transportation.

This warranty shall not be interpreted to render Ashland Industries Inc. liable for injury or damages of any kind or nature to person or property. This warranty does not extend to the loss revenue, extra labor cost associated with downtime, substitute machinery, rental or for any other reason.

Except as set forth above, Ashland Industries Inc. shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. Ashland Industries, Inc. makes no other warranty, expressed or implied, and, specifically, Ashland Industries Inc. disclaims any implied warrant or merchantability or fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusion in this warranty may not apply.

This warranty is subject to any existing conditions of supply which may directly affect our ability to obtain materials or manufacture replacement parts.

Ashland Industries Inc. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

No one is authorized to alter, Modify or enlarge this warranty nor the exclusion, limitations and reservations.

Ashland Industries Inc. Warranty Department