

ver 1008-22079



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CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION



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.

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I-175 XL2 Transport Link



IMPORTANT

Please locate red Transport Links and remove prior to operation.

I-175 XL2 Operators and Maintenance Instructions OPERATORS AND MAINTENANCE INSTRUCTIONS

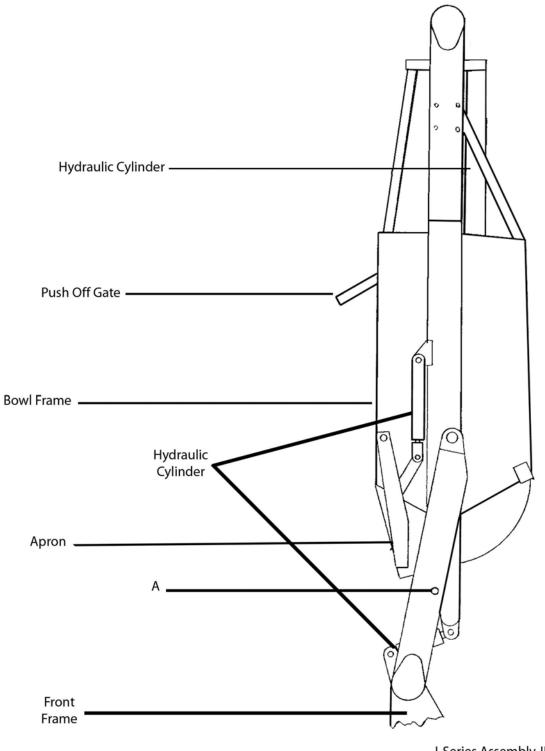
This scraper is a durable piece of equipment and with proper care will yield many years of trouble free operation. The scraper requires a power source with TWO 4 way (double acting) hydraulic control valves.

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** (point A), 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.

- 1. 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.

I-175 XL2 Assembly Illustration



I-Series Assembly-ILL

I-175 XL2 Safety Guidelines



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.



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.

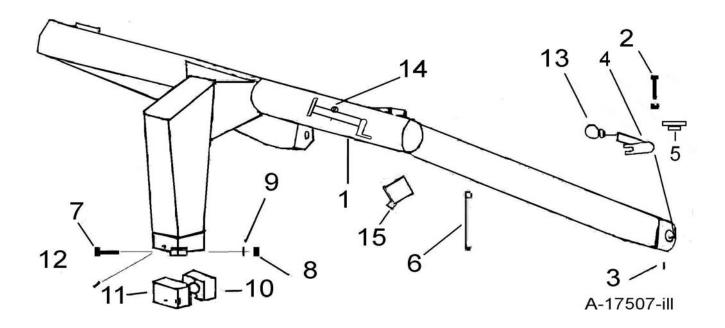
Review the safety instructions with all users annually.

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.

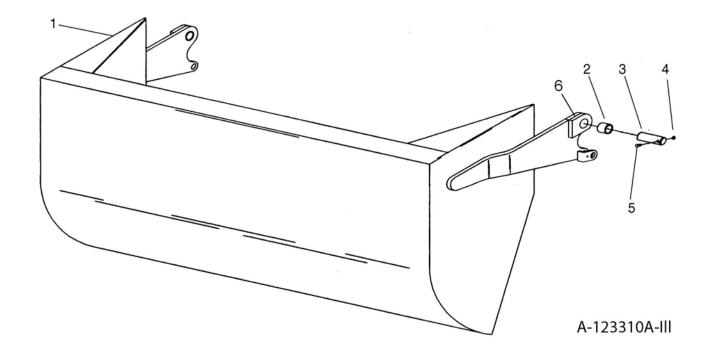
To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

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.

I-175 XL2 Gooseneck Assembly

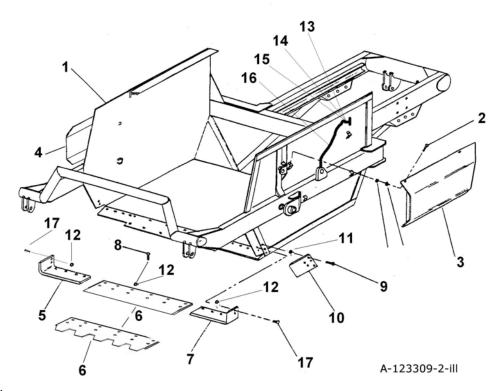


Key Number	Part Number	Description
1	A17507	Gooseneck Frame
2	AFB-00079	Bolt, 5/8 NC X 1 1/2" Gr. 8
3	14505	Grease Zerk - Straight
4	A123321-09	Main Frame Pin
5	A123358	Bushing Pin Keeper
6	A123230-20	Travel Lock
7	AFB-00081	"Bolt, 7/8"NF x 5" Lg. Grade 5"
8	7597	"Nut, 7/8"NF"
9	8125	Lockwasher 7/8"
10	A14002	Cast Socket Half - Rear
11	A14003	Cast Socket Half - Front w/Zerk Hole
12	A2206	Grease Zerk - Long Shank
13	A123320-08	"Bushing, 3 ID X 3.5 OD X 3"
14	OPT-00001	Hitch Jack
15	A125006	Safety Link Pin



Key Number	Part Number	Description
1	A17505	Apron Model I-175XL
2	A16027	Bushing: 2" OD x 1-1/2" ID x 2" Long
3	A123337	Pin: 1-1/2" x 5-3/8"
4	7450	Nut: 3/8" NC
5	AFB-00049	Bolt: 3/8" NC x 3"
6	14505	Grease Zerk-straight

I-175 XL2 Bowl & Frame Assembly

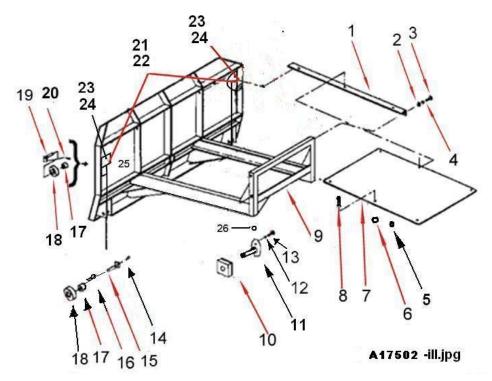


Blade Bolts Required:

A123330 (& Ser)	PB9P-NC-088-0275	Oty Each (12)	<u>Nut</u> AFN-00019
A123332L & R	PB9P-NC-088-0275 PB9P-NC-088-0225	(4) (2)	AFN-00019
A123357	AFB-00018	(5)	AFN-00012

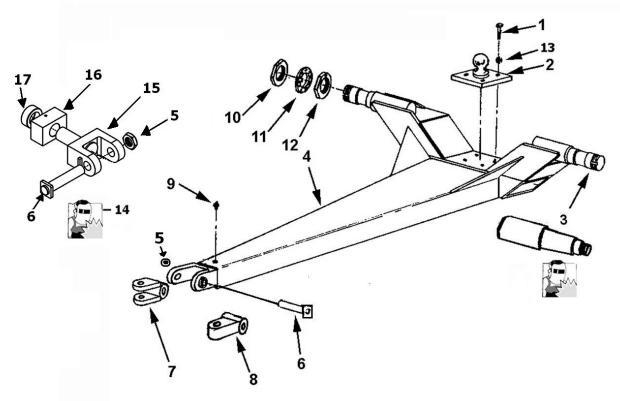
Key Number	Part Number	Description
1	A17503	"Bowl and Frame, Model I-175XL2 w/Std. Tires"
2	AFB-00094	Bolt: 3/8 NC X 1" Flange Bolt
3	A123309-62L	Cylinder Guard - Left Hand
4	A123309-62R	Cylinder Guard - Right Hand
5	A123332L	Left Cutting Edge
6	A123330	"Center Cutting Edge, Straight 1-1/8" x 12" x 63""
	A123330SER	"Center Cutting Edge, Serrated 1-1/8" x 12" x 63""
7	A123332R	Right Cutting Edge
8	PB9P-NC-088-0275	Plow Bolt: 7/8 NC X 2-3/4"
9	AFB-00018	"Bolt, 1" NC x 3" long
10	A123357	"Bank Shaver/router bit Reversible, L & R"
11	AFN-00012	Nut: 1" NC
12	AFN-00019	Nut: 7/8" NC
13	A125019	Grease fitting 1/4-28 x .54" long
14	A125026	Bulkhead nut 1/8 n.p.s.m.
15	A123309-89	Single hole tab
16	A125022	18" Grease line
17	PB9P-NC-088-0225	Plow Bolt: 7/8 NC X 2 1/4"

I-175 XL2 PushOff Assembly I-175 XL2



Key Number	Part Number	Description
1	A14022	Brace
2	AFN-00006	Nut: 3/4" NC
3	AFB-00037	Bolt: 3/4" NC x 2" Lg.
4	AFW-00002	Lockwasher: 3/4"
5	8100	Lockwasher: 1/2"
6	AFN-00015	Nut 1/2" NC
7	A14023	Dirt Shield
8	AFB-00015	Bolt: 1/2" x 1-1/2" NC bolt
9	A17502	Pushoff Gate: Model I-175
10	A123353	Wear Pad
11	A123305A	Pin: 1 1/4 X 2 3/4" for Wear Pad
12	8100	Lockwasher: 1/2"
13	AFB-00033	Bolt: 1/2 NC X 2 1/2"
14	AHF-00028	Grease Fitting: 1/8: NPT -90 degree
15	A6007A	Pin: 1 1/4" x 4 1/8" lg.
16	AFP-00001	Cotter Pin: 1/4 X 3 1/2"
17	A10163	Bushing: 1 3/4" OD X 1 1/4" ID
18	A10164	Roller 3-1/2 OD x 1-3/4 ID
19	A123288	Pin: 1 1/4 X 3 1/4" Tab Head
20	7036	Bolt: 1/2 NC X 2"
21	A125020	32" Grease Line
22	A125021	54" Grease Line
23	A125019	Grease Fitting 1/4 x 28.54 Long
24	A125026	Bulkhead Nut
25	A123323-40	Double Hole Tab
26	7500	1/2" Nut

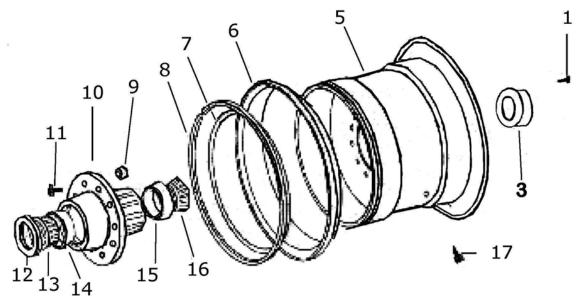
I-175 XL2 Pole & Axle Assembly



175X-A123375-22079

Key Number	Part Number	Description
1	AFB-00018	Bolt, 1" NC X 3" Lg.
2	A14017	Ball Swivel
3	A14021	Spindle, weld on
4	A123375	Pole W/20.5 X 25 Tires
5	500462	Nut, Swivel Pin
6	600055	Pin: Swivel Hitch
7	A17511	Swivel Hitch, Double Lip
8	A17510	Swivel Hitch Single Lip
9	14505	Grease Fitting
10	A10048	Spindle Nut
11	A10049A	Lock Collar
12	A10172	Nut with Lock Pin
13	A123232A	Swivel Hitch Rebuild Kit, includes items 5,6,15,16,17
14	AFW-00006	Lockwasher 1"
15	A123232-3	Hitch: Yoke Assembly
16	A123232-2	Swivel Block 4x6x3
17	A123232-1	Hitch: Retaining Collar

I-175 XL2 Front Wheel & Hub Assembly



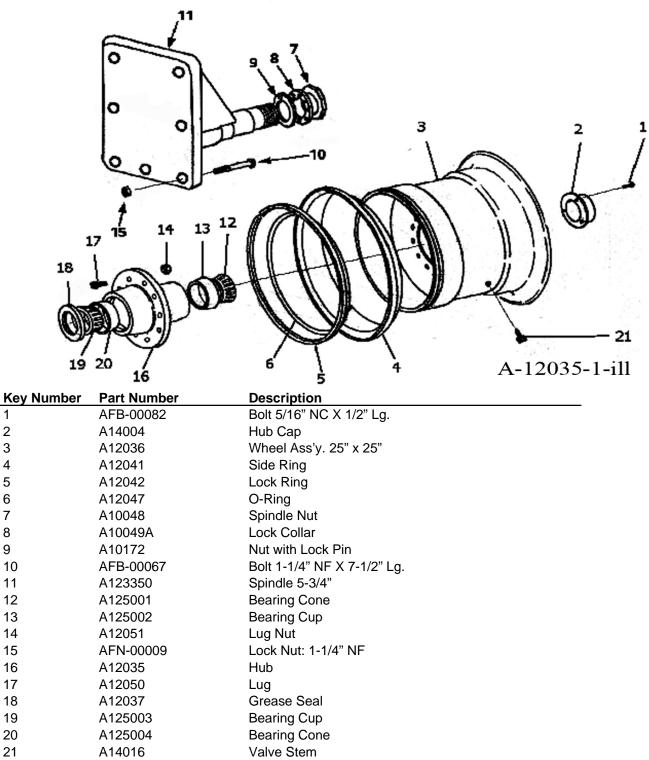
A-14004-2-ill

FRONT WHEEL AND HUB ASSEMBLY W/20.5-25 STANDARD TIRE

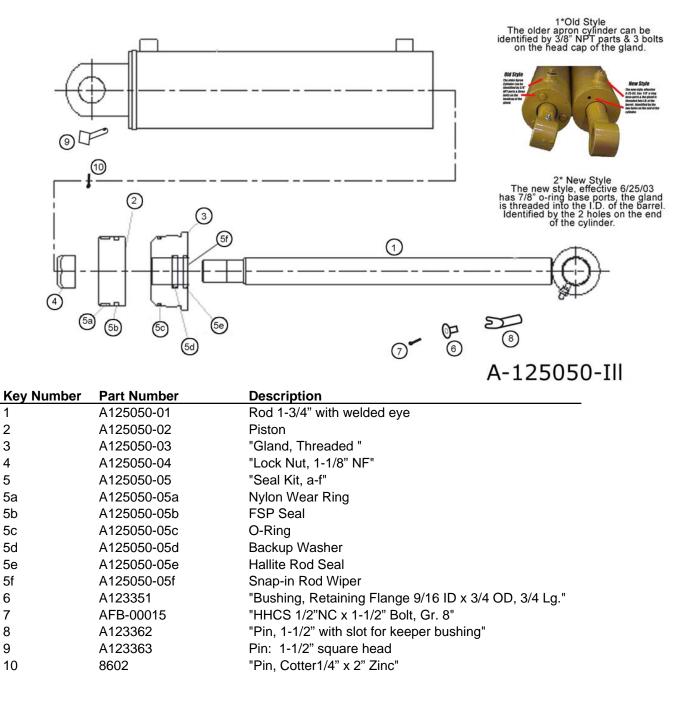
Key Number	Part Number	Description
1	AFB-00080	Bolt 5/16" NC x 1/2"
3	A14004	Hub Cap
5	A14035	Wheel 17" x 25"
6	A14036	Side Ring for 17" x 25" Wheel
7	A14008	"O" Ring
8	A14038	Lock Ring
9	A10046	Lug Nut
10	A14010	Hub
11	A10176	Stud
12	A14011	Grease Seal
13	A14012	Bearing Cone
14	A14013	Bearing Cup
15	A14014	Bearing Cup
16	A14015	Bearing Cone
17	A14016	Valve Stem

I-175 XL2

Rear Wheel & Hub Assembly with 29.5 x 25 inch Tire

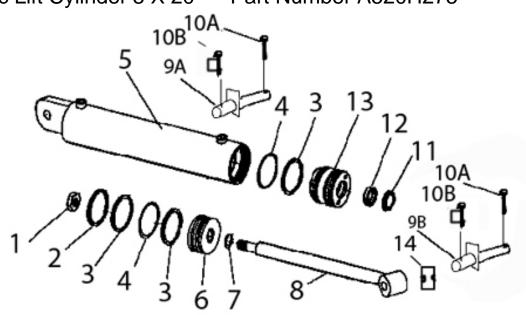


I-175 XL2 Apron Cylinder 4 x 13 Cylinder Part # A125050



I-175 XL2

Hydraulic Lift Cylinder 5 X 20 Part Number A520H275

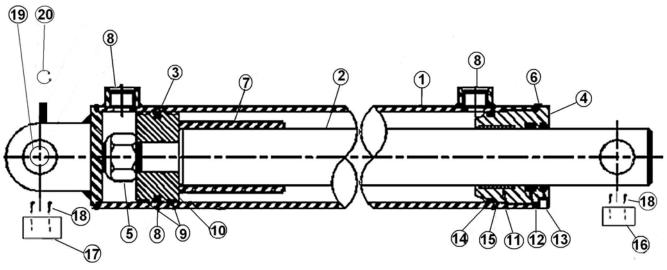


A-520h275-ill

Key Number	Part Number	Description
1	A400H17	"Nut 1-1/4" NF, Lock Type"
2	A400H04	"Cast Ring, 5" OD"
3	A400H05	"Back-up Washer, 5" OD x 1/4""
4	A400H06	""O" Ring, 5" OD x 1/4""
5	A80H35	Barrel Assembly with 2" holes
6	A80H01	"Piston, 5" OD"
7	A60H52	""O" Ring, 1-1/4" OD x 1/16""
8	A80H32	Shaft 2" Dia.
9A.	A123372	"Pin, upper"
9B.	A123335	"Pin, lower"
10A.	AFP-00001	"Cotter Pin, 1/4" x 3""
10B.	A125006	SafetySnap Pin
11	A80H06	Wiper Seal 2" ID
12	A80H04	Seal 2" ID
13	A80H05A	Head Gland
14	A123231-88	Spacer for Lower Pin
	A80H07	"Packing Kit, Containing: A400H04 (1), A400H05 (3), A400H06 (2), A460H52 (1), A80H04 (1), A80H06 (1)

I-175 XL2

Pushgate Cylinder 4" Bore X 60" Stroke Part # A125178



A125178-ill

Key Number	Part Number	Description
1	A123360-01	BARREL
2	A123360-02	ROD
3	A123360-03	PISTON
4	A123360-04	GLAND
5	A123360-05	LOCK NUT
6	A123360-06	SCREW
7	A123360-07	SPACER SLEEVE
8	A123360-08	PISTON SEAL
9	A123360-09	WEAR RING
10	A123360-10	O-RING
11	A123360-11	WEAR RING
12	A123360-12	ROD SEAL
13	A123360-13	WIPER
14	A123360-14	O-RING
15	A123360-15	BACK-UP RING
16	A123323-38	Rod End Pin 5-1/16 x 1-1/2
17	A123323-41	Barrel End Pin 4-9/16 x 1-1/2
18	AFP-00001	1/4 x 3 Cotter Pin
19	A125178-35	Bearing
20	A125178-36	Snap Ring
	A123360-16	"SEAL KIT, INCLUDES ITEMS 8 - 15"

I-175 XL2 Hydraulic Manifold Assembly A125174



IMPORTANT: This Hyd. Manifold was intergrated 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 circuits' 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 tractors 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

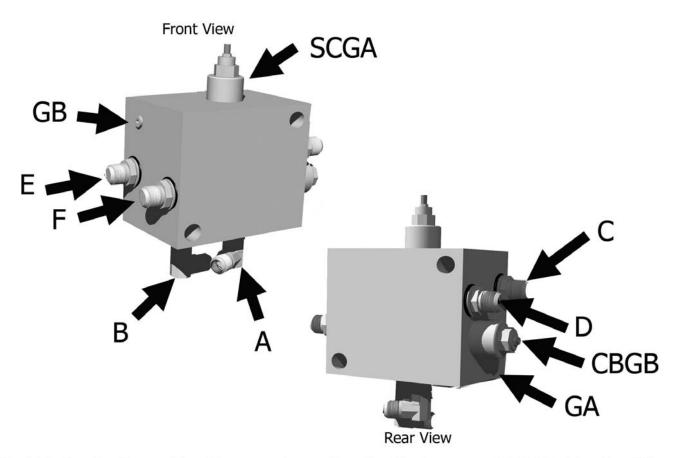
Loosen the lock nut (9/16") on the sequence valve cartridge. Turn the setscrew (4mm) clockwise until the front apron rises before the push-off begins to advance. (Earthmover should be empty) Turn the adjustment screw an additional 1/4 turn clockwise and tighten jam nut.

STEP 2 Counter Balance VALVE

Loos en the lock nut (9/16") on the counterbalance valve cartridge. Turn the setscrew (4mm) counter-clockwise 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
01	A125162-01	Counter Balance Cartridge
02	A125162-02	Sequence Cartridge

I-175 XL2 Hydraulic Valve Assembly Ports

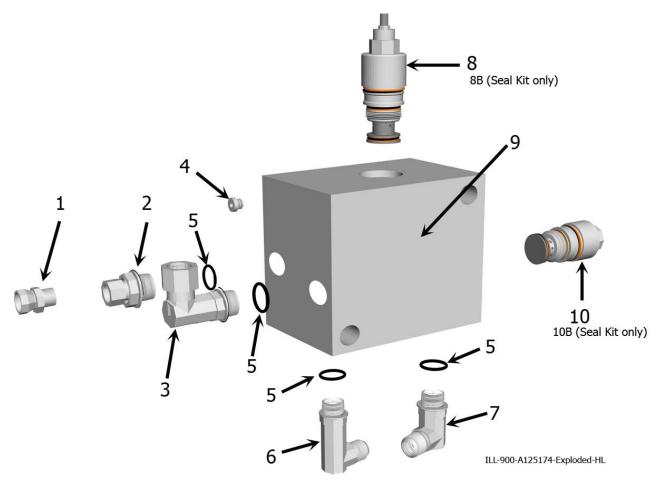


The lettering for the port locations are stamped on the block

A125174 Port Locations.ILL

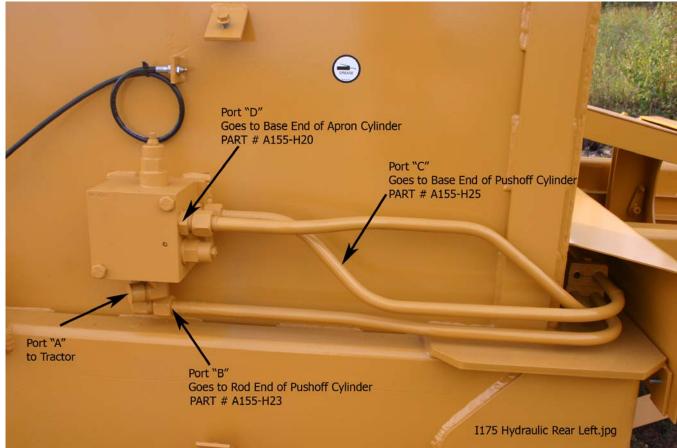
Key Number	Description
A	Supply Line
В	Pushoff Cyl. (Rod End)-Apron Cyl., Right side (Rod End)-Supply Line
С	Pushoff Cylinder, (Base End)
D	Apron Cylinder, Right Side, (Base End)
E	Apron Cylinder, Left side, (Rod End)
F	Apron Cylinder, Left side, (Base End)
CBGB	Counterbalance Valve, adjusttable
SCGA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

I-175 XL2 Hydraulic Valve Seals

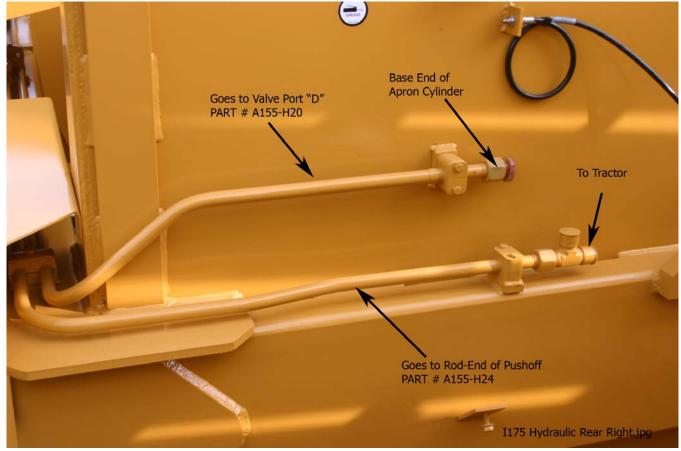


ITEM	PART NO.	DESCRIPTION
1	AHA-00076	Adapter: Str. Swiv ¹ / ₂ MP X ¹ / ₂ FP. 109 Rest
2	AHA-00043	Adapter: Str. Sw. 1 1/16 M ORB X ½ FP
3	AHA-00048	Adapter: 90 Deg. Swiv. 1 1/16 M ORB X ¹ / ₂ FP
4	AHA-00046	6 ORB Plug
5	AHS-00153	O-ring for 12 M ORB Fitting
6	AHA-00047	Adapter: 90 Deg. XL 3/4 MJ X 1 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
<u>Seal Kits:</u>	A125162-01KIT A125162-02KIT	Seal Kit for A125162-01 Valve Cartridge Seal Kit for A125162-02 Valve Cartridge

I-175 XL2 Hydraulics Rear Left



Hydraulics Rear Right



Ashland Industries

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I-175 XL2 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.

I-175 XL2 Pushing the Earthmover



PUSHING THE EARTHMOVER

The I-175XL2 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-175XL2 earthmover to prevent any unnecessary damage.

CAUTION! The I-175XL2 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.

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.

Lubrication Points (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.

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.

I-175 XL2 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 judgement, 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. make 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 direct 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