



# Parts Manual

06-16

# 25 CS



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**Ashland Industries**

*Crafting Quality since 1953!*

[www.ashlandind.com](http://www.ashlandind.com)  
[www.scraperdrawbar.com](http://www.scraperdrawbar.com)

# Table of Contents

## Categorized Listing

<b>ASHLAND SCRAPERS</b>	<b>1</b>
Introduction	1
Operation and Maintenance	2
Safety Guidelines	5
Assembly - 25-2	6
Actuating Frame - 25	7
Apron Assembly	8
Frame - 25	9
Wheel Assembly - 25	10
Lift Cylinder - A3516H1	11
Maintenance Check List	12
Service: Tire Service	13
Troubleshooting	14
Warranty Statement	15

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## Table of Contents

### Alphabetized Listing

<b>A</b>	
Actuating Frame - 25	7
Apron Assembly	8
ASHLAND SCRAPERS	1-15
Assembly - 25-2	6
<b>F</b>	
Frame - 25	9
<b>I</b>	
Introduction	1
<b>L</b>	
Lift Cylinder - A3516H1	11
<b>M</b>	
Maintenance Check List	12
<b>O</b>	
Operation and Maintenance	2
<b>S</b>	
Safety Guidelines	5
Service: Tire Service	13
<b>T</b>	
Troubleshooting	14
<b>W</b>	
Warranty Statement	15
Wheel Assembly - 25	10



**ASHLAND SCRAPERS****Introduction**

Thank you for choosing an Ashland scraper for your earthmoving needs. Years of research, testing and successful application have been spent to ensure quality and maximum performance for our customers.

**QUALITY POLICY**

**It is our mission to exceed our customers' expectations in quality, delivery, and cost through continuous improvement and customer interaction.**

Please read and understand this manual before attempting to attach or operate this scraper. This manual should always remain with the machine. Be sure and fill out and send in the owners registration form at the beginning of this manual, or you may fill out the form on-line by going to [ashlandind.com](http://ashlandind.com) and click on "Register your Machine" at the bottom of the page. If you have questions, please feel free to call or email us. You can visit us on-line at [www.ashlandind.com](http://www.ashlandind.com).

Ashland Industries hours of operation are 8:00 a.m. to 5:00 p.m. CST. We can be reached toll free at: 877-634-4622.

**SCRAPER ID NUMBER**

The serial number plate for the scraper is located on the right side of the front main frame. The letter and numbers stamped identify the serial number, model number and capacity of the scraper. Please record this serial number for use in ordering parts, warranty issues and to track your equipment if it is ever stolen.

References to serial number breaks on parts are located in the manual with a reference sequence of XXXXX-XXXXX. The beginning number records the serial number start of the use of that part. The ending number is the final serial number use of the part within this machine.



A black rectangular plate with white text and a QR code. The text includes the Ashland Industries logo, contact information (Ashland, WI 54806, 877-634-4622), and three input fields for 'Serial #', 'Model', and 'Cap. Heaped'. The website [www.ashlandind.com](http://www.ashlandind.com) is printed at the bottom.

**IMPORTANT**

Parts must be ordered through your local authorized ASHLAND dealer. Be sure to state MODEL and SERIAL NUMBER of your machine. Ashland Industries weldable replacement parts are also available to rebuild, modify or update your scraper to current factory specifications.

**ASHLAND SCRAPERS****Operation and Maintenance**

Your Ashland scraper is a durable piece of equipment and with proper care will yield many years of trouble free operation. However, the life of your scraper can be severely shortened by poor maintenance. You must follow consistent maintenance practices and use good quality grease and hydraulic oil (compatible with the power unit's hydraulic system) to insure the longer, most productive use from your scraper.

Your scraper should be greased at all points where grease fittings are provided. **REMOVE TRANSPORT LOCKS** prior to operation. Next, 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 your 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 8 hours of operation, all bolts should be checked and tightened if necessary and all grease fittings lubricated. Check tire pressures daily. Also, check pins and cutting edges for signs of wear.
- After 50 hours work, all bolts should be rechecked and tightened if necessary. Check wheel bearings and adjust if necessary.
- Check wheel lug nut torque.
  - After first 2 hours of operation.
  - Recheck daily for the next 2 weeks.
  - Tighten wheel lug nuts in a star pattern.
  - Torque wheel lug nut (see Torque Specifications).
- After 300 hours work, clean and repack wheel bearings and replace, if necessary, cutting edges, worn pins, etc.



**Failure to replace worn cutting edges may result in unnecessary wear to the earthmover sides and floor.**

**ASHLAND SCRAPERS****Operation and Maintenance**

Before starting a job, make sure Diggers Hot Line has been contacted and all underground utilities have been properly located (electric, phone and pipelines). Have a clear understanding of all local, OSHA and MSHA rules that apply to the job. Beware of your environment and keep others a safe distance from the machine while familiarizing yourself with the machine's controls. The scraper requires a power source with **TWO** 4-way (double acting) hydraulic control valves.

**Scraper damage can occur if:**

1. The scraper is running over the haul road with the bowl fully raised. On scrapers that have factory installed nitrogen over hydraulic accumulators, the lift cylinders should be lowered 3 to 4 inches to allow the cushioned ride to work properly.
2. The heaped payload repeatedly exceeds the design ISO 6485 Earth-moving machinery-Tractor-scraper volumetric rating.
3. The fully loaded scraper exceeds the 10 mph on smooth haul roads and dramatically less on uneven haul roads.
4. The scraper is being top-loaded without the bowl being fully lowered to the ground prior to placing the material into the bowl.
5. The scraper is being used to level haul roads with the apron closed, not allowing material to enter the bowl.
6. The scraper is being used to load rock.
7. The scraper is being aggressively push loaded with a dozer.
8. A power unit that is above the horsepower rating is pulling the scraper.

These types of damage are not covered by warranty. Warranty only covers defects in material or workmanship and not abuse because of improper use.

**Know the job:**

1. Know the weight of the material to be moved.
2. Lay the job out to take advantage of grades when loading, if possible.
3. Keep hauls as short as possible.
4. Keep haul roads smooth.
5. If more than one unit is on the job, make sure the haul roads are one way and that the operators understand the direction.
6. Brief the operators as to what the job consists of so there is not misunderstanding.
7. Know the moisture content in the material to be moved.
8. Will water be needed for proper compaction?
9. Will drainage be a problem?
10. How many units will be needed to efficiently complete the job?

**Transport the scraper safely:**

1. Always empty scraper.
2. Clean all material from exterior of scraper.
3. Make sure all road rules are followed.
4. Use proper lighting and flagging.
5. Lower scraper bowls to provide just enough clearance over obstacles.
6. Transport at a safe speed to avoid roll over.
7. Reduce speed on curves and when going downhill.

**ASHLAND SCRAPERS****Operation and Maintenance****Apron Opening Guidelines:**

You will need to determine the ideal opening for your soil condition. It is important to have the apron opened prior to loading. To receive the highest production possible, it is important to know the general characteristics of the material that you will be loading. In heavier soils like clay or gumbo, the soil will slab up and remain together after being cut by the blades. In lighter soils, like sand or dry loose top soil, the material will pile up or push after being cut by the blade. Use the suggestions listed below:

**Topsoil with heavy vegetation (12" to 24" opening):**

When cutting undisturbed soils, you will need to open the apron high enough to allow debris to easily enter the scraper bowl. If the apron is opened too high, the rolling up sod will fall out past the apron and hinder the incoming material. If the apron is not adjusted quick enough, the material will bunch or push ahead of the machine. If this happens, you should close the apron and pull out the cut quickly. If you wait too long, you may develop too large a pile to clear the scraper while rising out of the cut. This can cause the power unit to lose traction and possibly cause you to get stuck.

**Clay or loamy material: (6" to 12" opening):**

To cut clay or loam soils, lower the apron to approximately 6" to 12" between the blades and the bottom of the apron. When you first lower the bowl, you'll see the material being cut by the blades and entering the bowl. As you continue to move forward, small clumps will fall past the apron and develop a small pile ahead of the apron. By limiting this apron opening, the small pile will "blade off" any loose material ahead of the machine. Adjustments should be made if large objects such as rocks or deep gouges are within the cut.

**Sand or loose topsoil (15" to 30" topsoil):**

Loading sand or loose top soil is the most difficult type of soil to load. In combination with the larger apron opening, you'll want to operate at a faster ground speed. By traveling faster and lowering the blade deeper than normal, it forces the material into the scraper bowl.

We encourage you to experiment with different apron openings to determine the best condition for your jobsite.



The Apron is designed to capture material inside of the scraper bowl and should not be used as a large blade. Obstructions like large rocks or dense piles may cause the apron to bend inward after prolonged exposure to these conditions.

## Safety Guidelines



**Safety Signal Words:** Please note the use of signal words such as DANGER, WARNING, and CAUTION paired with the safety messages on your scraper. The appropriate signal word for each safety message 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 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. For example, hazards that are exposed when guards are removed. This signal word 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. This signal word may also be used to alert against unsafe practices.

Operator safety is a main concern in designing and developing equipment. Designers and manufacturers include as many safety features as possible. However, every year many accidents occur which could have been avoided by extra thought and a more careful approach to handling equipment. The operator can avoid many accidents by observing the precautions in this section. To avoid personal injury, study the following precautions and insist those working with, or for you, follow them.

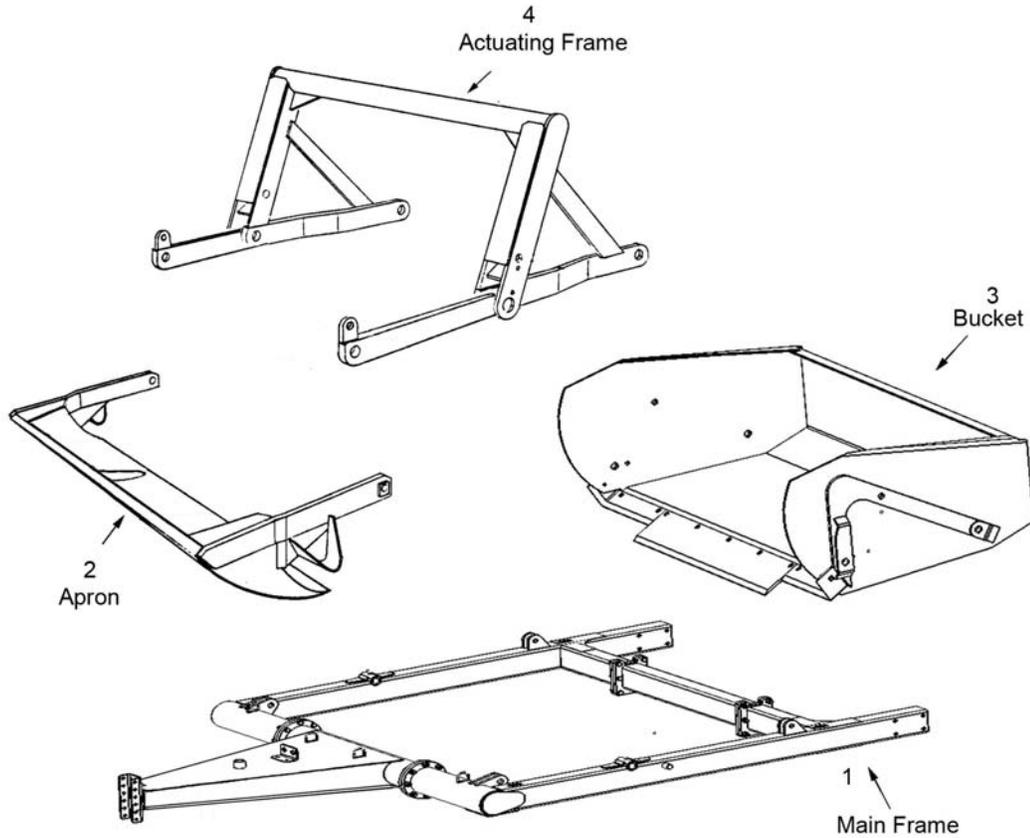
Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or missing. Locations of decals are indicated in this booklet.

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

Review the safety instructions in the operator's manual with all users annually.

**Operators should be responsible adults who are familiar with machinery and trained in the equipment's operations. Do not allow persons to operate or assemble this unit until they have read this manual and the owner's manual and have developed a thorough understanding of the safety precautions and scraper operation.**

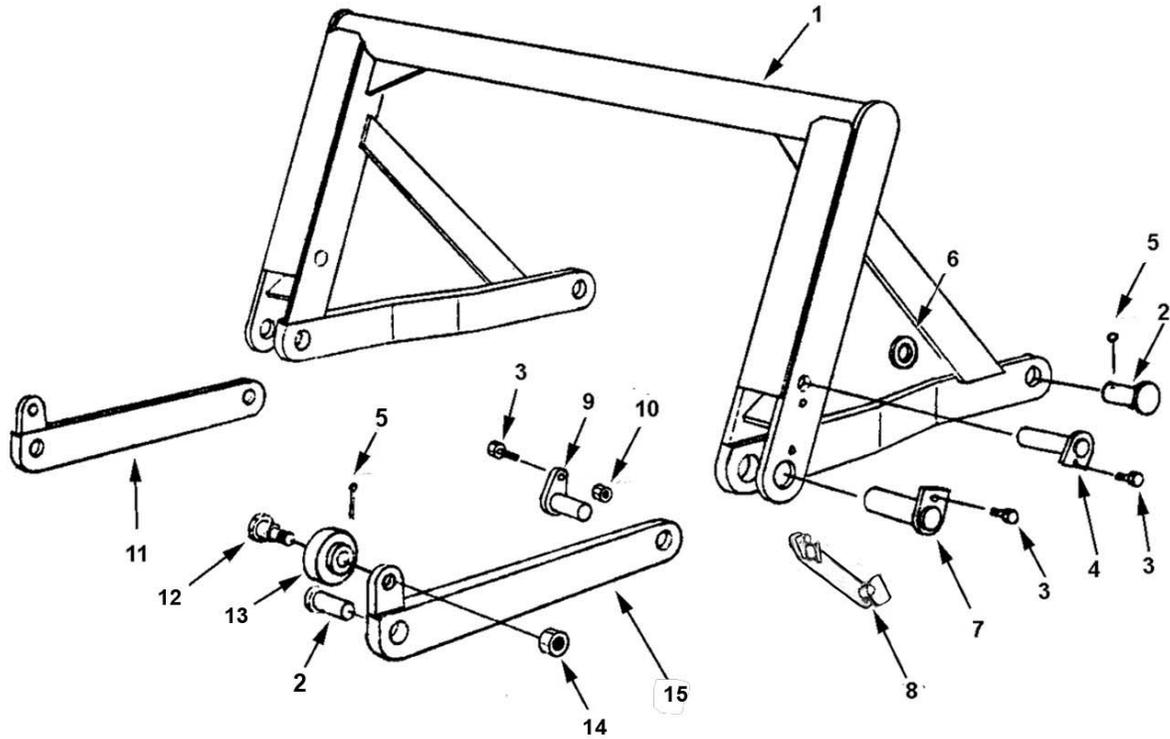
**Assembly - 25-2**



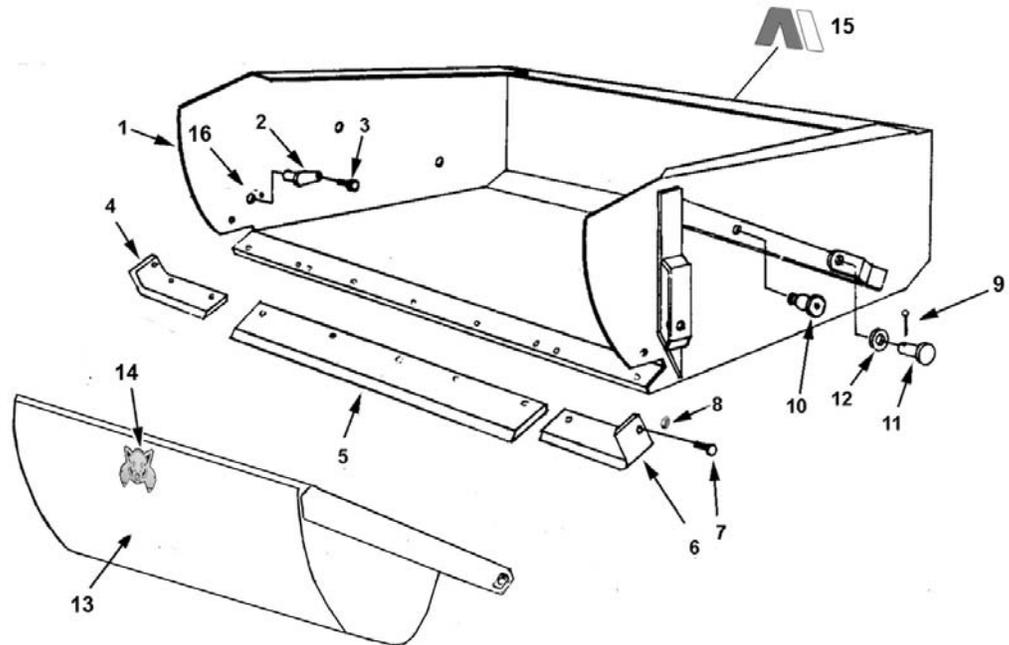
ITEM	PART	DESCRIPTION
1	600982	Main Frame
2	A3317	Apron
3	A2504	Bucket
4	A2506	Actuating Frame

**ASHLAND SCRAPERS**

**Actuating Frame - 25**

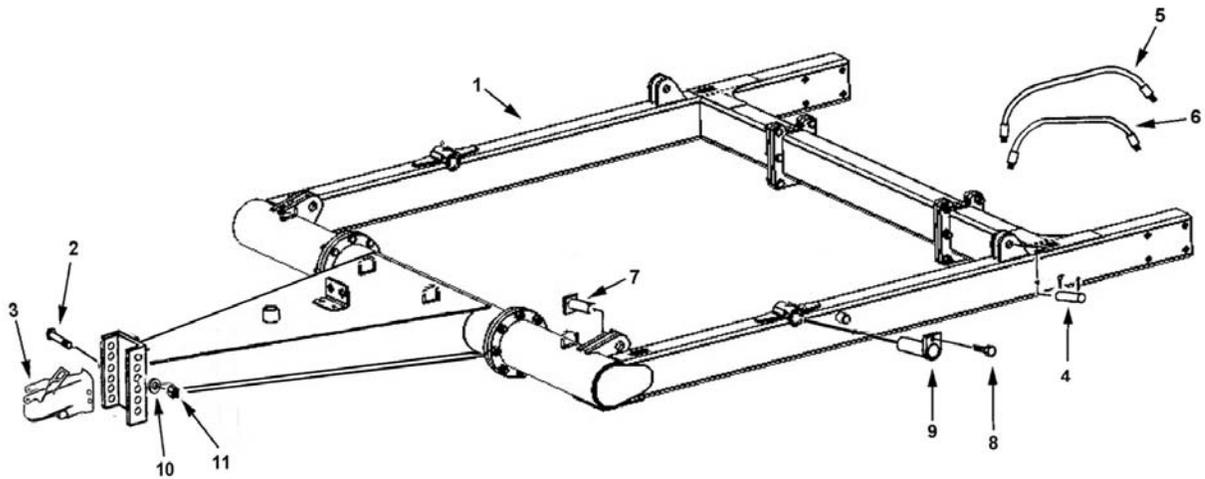


ITEM	PART	DESCRIPTION
1	A2506	Actuating Frame
2	A3310	Pin, 1 1/4" X 2 7/8"
3	AFB-00143	Hex Head Capscrew 1/2" X 1" NC
4	A3318A	Pin, 1" X 5 5/8" Tab Head
5	AFP-00010	Cotter Pin 1/4 X 2
6	AFW-00005	Narrow Rim Washer, 1 1/4" ID
7	A2502A	Pin: 1/2" X 5 5/8"
8	A123475	Transport Lock
9	A4505	Pin: 1 1/4" X 2 3/8" w/tab head
10	AFN-00011	Nut: 1/2" Hex
11	A3312	Actuating Arm, Right
12	A30003	Shoulder pin, 2 1/2"
13	A30002	Roller
14	AFN-00012	Nut: 1" Lock
15	A3313	Actuating Arm, Left

**ASHLAND SCRAPERS**
**Apron Assembly**


ITEM	PART	DESCRIPTION
1	A2504	Bucket
2	A4505	Pin, 1 1/4" X 2 3/8" w/lock head
3	AFB-00143	Hex Head Capscrew, 1/2" X 1" NC
4	A2224	Right Cutting Blade
5	A30021	Center Cutting Blade
6	A2221	Left Cutting Blade
7	PB-NC-050-0175	Plow Bolts, 1/2" X 1 3/4"
8	AFN-00011	1/2" Nut
9	AFP-00010	Cotter Pin
10	A30020	Shoulder Pin, 1 1/4" to 1" NF
11	A3310	Pin, 1 1/4" X 2 7/8"
12	AFW-00005	Narrow Rim Washer, 1 1/4" ID
13	A3317	Apron
14	ADS-00033	Ground Hog Decal
15	ADS-00064	Large "AI"
16	AFN-00074	Nut: 1" Gr 8 Locknut

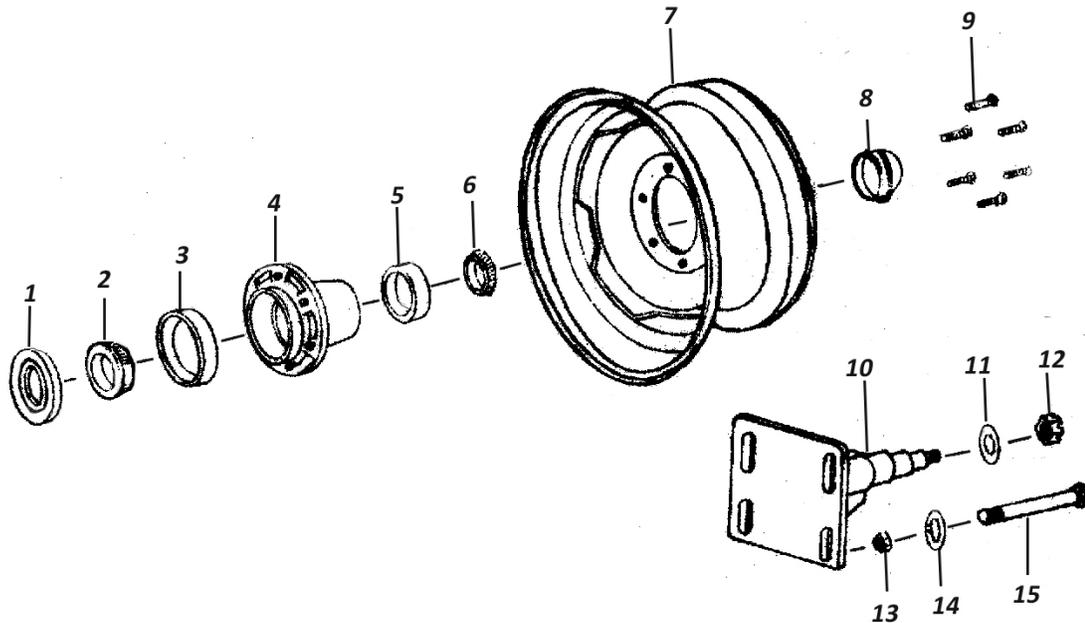
**Frame - 25**



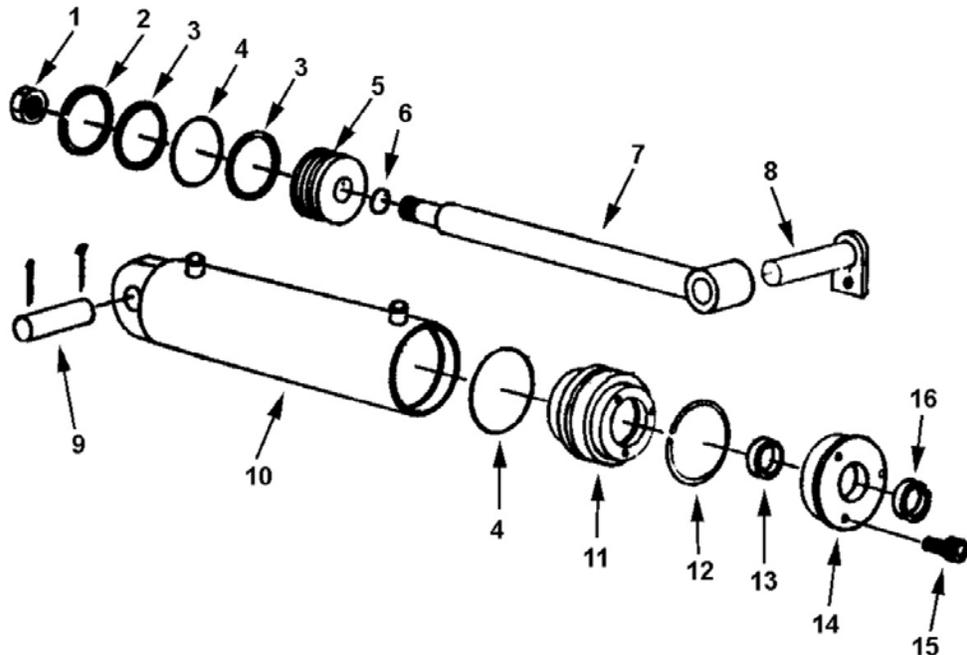
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ITEM	PART	DESCRIPTION
1	600982	Frame, two wheel mount
2	AFB-00011	Bolt: Hex Cap 5/8" X 6"
3	0091555	Hitch: 2 5/16 coupler
4	A2508	Pin, 1" X 3 1/4", + cotter both ends
5	A22H02	Hydraulic hose, 3/8" X 33"
6	A22H01	Hydraulic hose, 3/8" X 24"
7	A3310	Pin, 1 1/4" X 2 7/8"
8	AFB-00143	Capscrew 1/2" X 1" NC
9	A2502A	Pin, 1 1/2" X 5 5/8"
10	AFW-00031	Washer: 5/8 Lock
11	AFN-00007	Nut: 5/8 Lock

**Wheel Assembly - 25**



ITEM	PART	DESCRIPTION
1	A2229A	Grease Seal
2	A2230A	Bearing Cone (inner)
3	A2231	Bearing Cup (inner)
4	A2232	Hub, less bearings
5	A2233	Bearing Cup (outer)
6	A2234	Nut: 5/8" (Fastener)
7	A3319A	Wheel
8	A2235	Hub Cap
9	A2236	Wheel Bolt
10	A30022A	Spindle
11	A2239	Washer, 7/8 flat
12	AFN-00005	Nut: 7/8 NF
13	AFN-00006	Nut: 3/4 Hex
14	AFN-00005	Nut: 7/8 NF
15	AFB-00004	Bolt: 3/4" Hex

**ASHLAND SCRAPERS**
**Lift Cylinder - A3516H1**


ITEM	PART	DESCRIPTION
	A3516H1	APRON CYLINDER (3 1/2" X 16")
1	A22H05	Piston Nt, 3/4" NF
2	A22H06	Cast Iron Ring, 3 1/2" OD
3	A22H07	Back-up Washer, 3 1/2" OD
4	A22H08	O-Ring Seal, 3 1/2" X 3 1/16"
5	A22H09	Piston, 3 1/2"
6	A22H10	Piston Gasket, 3/4" ID
7	A22H11	Shaft, 1 1/2" dia.
8	A3318	Pin, 1" X 5 5/8" tab head
9	A2508	Capscrew, 1/2" NC X 1" w/LW Pin, 1" 1 3/4"
		Cotter pin, 3 1/6" X 1 1/2"
10	A22H12	Barrel 3 1/2" ID
11	A22H13	Head Gland, 3 1/2"
12	A22H14	Retainer Ring
13	A22H15	O-Ring
	A22H15A	Back-up Washer
14	A22H16	Head Cap
15	A22H18	Capscrew, 1/4" X 1"
16	A22H17	Wiper seal, 1 1/2" OD
	A22H19B	Seal Kit

**ASHLAND SCRAPERS****Maintenance Check List**

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 300 hrs of operation.
  - b) Completely clean grease out of hub and bearings every 1200 hours of operation.
  
3. Check tire pressure.
  - a) See Tire Pressure Chart.
  
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 (See Torque Specifications).
  
6. Check and retighten all bolts.
  - a) After initial 10 hours of use.
  - b) Again after 50 hours of use.
  - c) See Torque Specifications.
  
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. Left or right side parts are determined by viewing from rear of the scraper.

**ASHLAND SCRAPERS****Service: Tire Service**

**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 inflate 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.

**ASHLAND SCRAPERS****Troubleshooting**

With proper care and maintenance, your Ashland Scraper 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.

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**Grease zerk will not take grease.**

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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.

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**Push-off rollers do not roll.**

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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.

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

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

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**Machine cuts unevenly.**

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

**ASHLAND SCRAPERS****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. 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 reservation .

Warranty Department