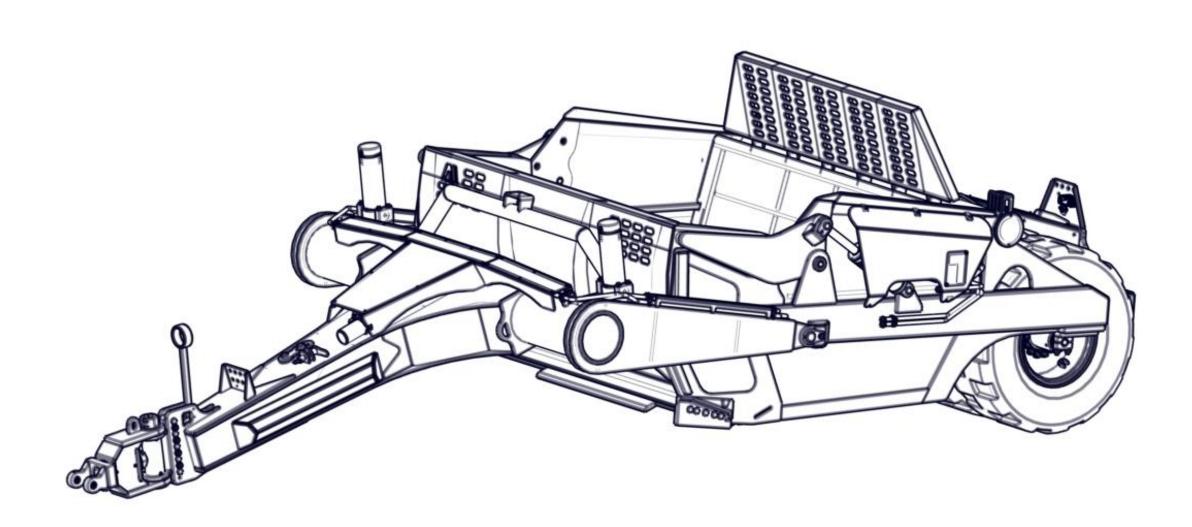


Parts Manual 220TS4



WG-220T-4-005

2-21

25509+

Address

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Business
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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 owner's registration form at the beginning of this manual, or you may fill out the form on-line by going to ashlandind.com and click on "Owner Registration" in the Parts section drop-down. If you have questions, please feel free to call or email us. You can visit us on-line at 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

You can find the serial number plate for **most** machines on the right side of the scraper in the top corner of the bowl. CS models will have plates on the front horsehead or front section. 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.







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.

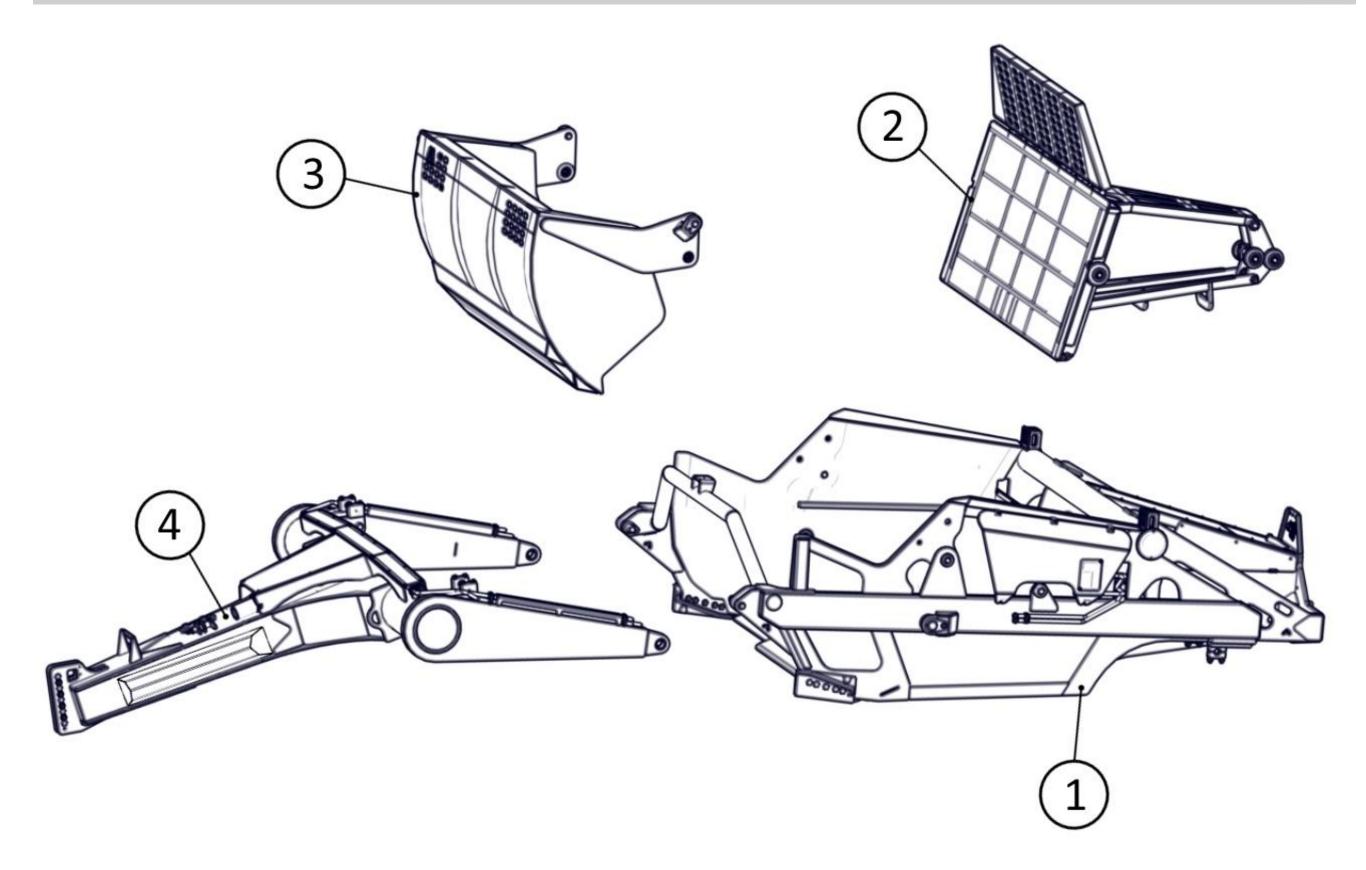
Scraper Specifications



Capacity, Struck	16 Cubic Yards
Capacity, Heaped	22 Cubic Yards
Overall Dimensions: Length Width	339 Inches 143 Inches
Height	97-1/2 Inches
Apron Clearance	56 Inches
Weight: Empty	26,558 Pounds
Cutting Width	126 Inches
Depth of Cut	8 Inches
Depth of Spread	0 – 18 Inches
Blade: 5 Piece	
Center	1-1/8 x 18 x 54-1/4 Inches
Corner	7/8 x 13 x 35-7/8 Inches
Router	1 x 8-1/2 x 21 Inches
Cylinders:	
Apron	Two (5 x 13 Inches)
Lift	Two (5-1/2 x 20 Inches)
Pushoff	One (5 x 60 Inches)
Horsepower Requirements: Single (Tractor)	400 - 620

Assembly

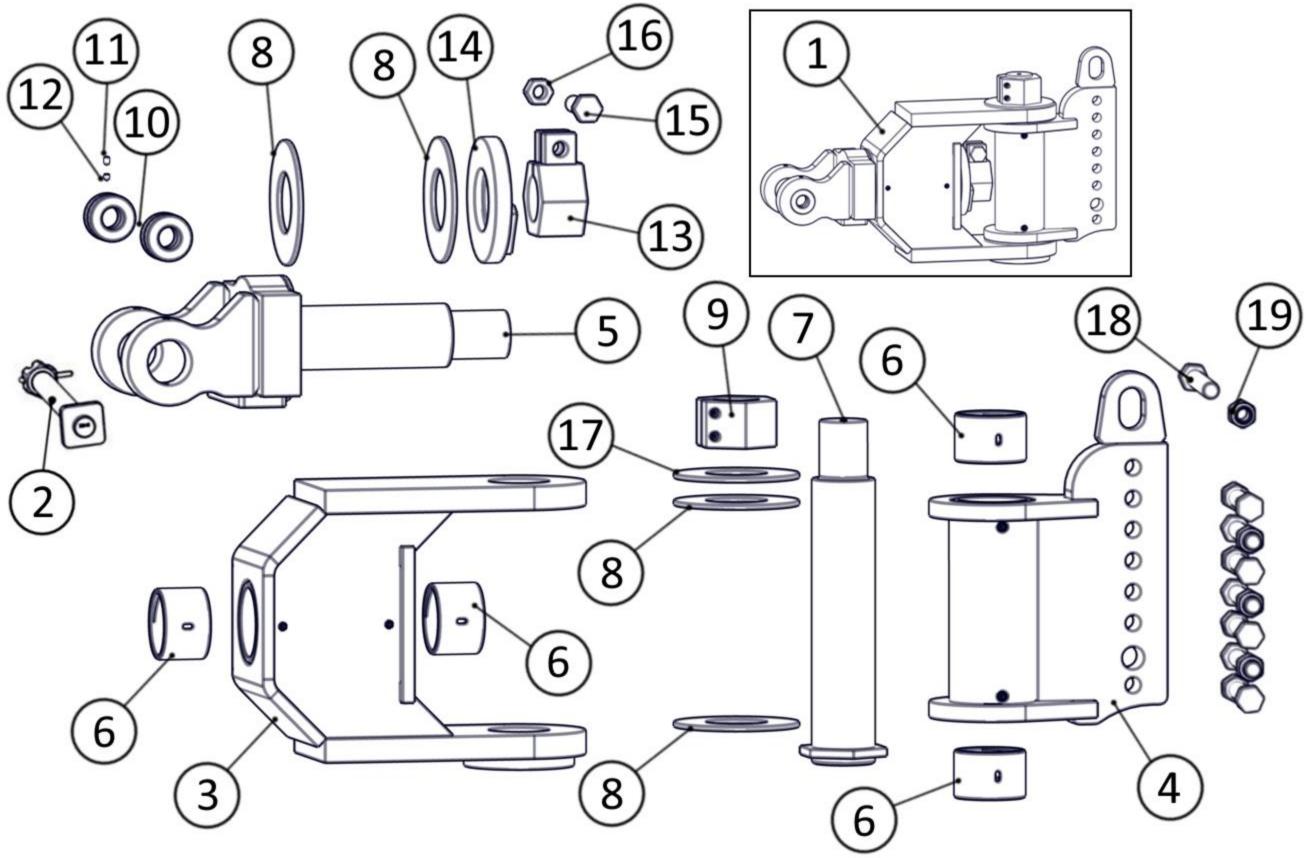




Item	Part Number	Description
1	701030	Bowl
2	702026	Pushoff
3	703006	Apron
4	704018	Front Section

Ashland Hitch - 601689

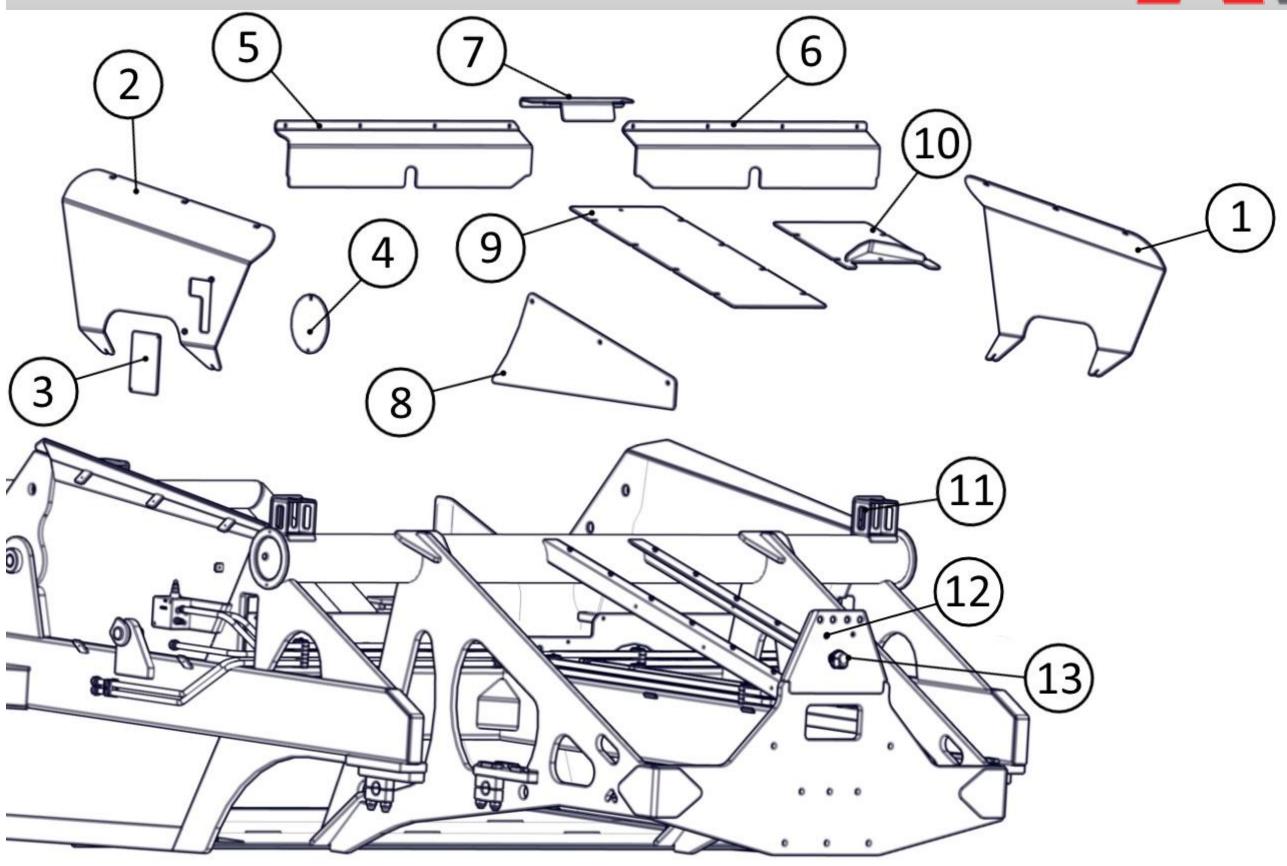




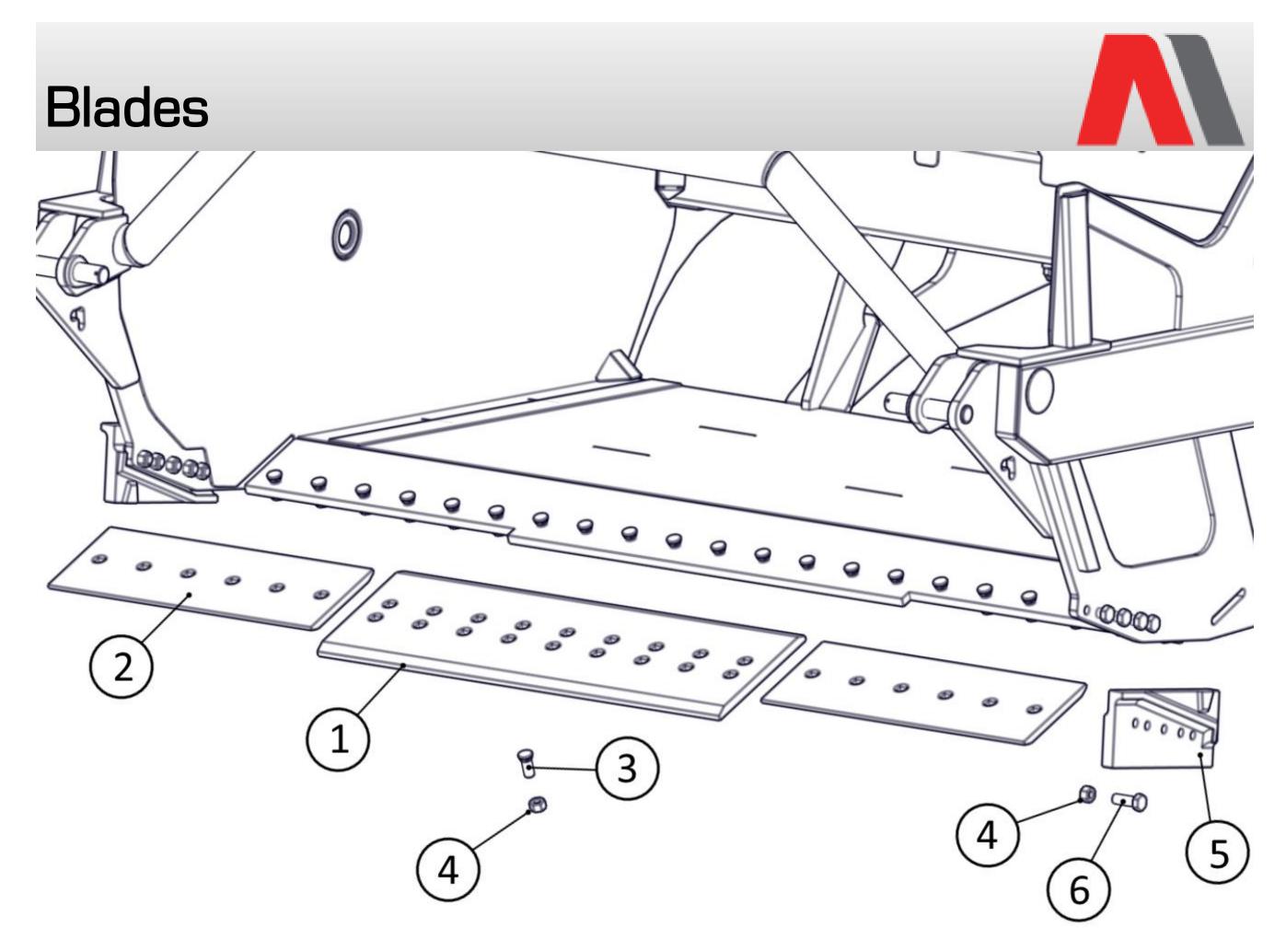
Part Number	Description
601689	Hitch Ass'y.: Includes Items 3 – 17
CNH 84268964	Pin Ass'y.: 1-1/2" Diameter w/ Nut & Cotter Pin
601685	Housing: Main w/ Bushings (2pc Item 6 Installed)
601684	Bracket: Vertical w/ Bushings (2pc Item 6 Installed)
601713	Yoke: Swivel w/ Bushings (2pc Item 10 Installed)
400312	Bushing: 4" ID x 3" Long
600925	Pin: Vertical, 4"
400384	Washer: Nylon, 4" x 8"
601026	Clamp: 3"-8 Nut w/ 3/8"-16 x 2" Cap Screws
400773	Bushing: 1-1/2" ID x 3" OD w/ Grease Groove
405000122	Socket Set Screw: Flat 1/2"-13 x 3/4"
405000121	Socket Set Screw: Cone Point 1/2"-13 x 1/2"
601550	Clamp: 3"-8 Nut w/ HHCS & Nut (Includes Item 15 & 16)
601549	Ring: Keeper, 3" ID x 8" OD w/ 4-1/8" ID Shoulder
AFB-00086	HHCS: 1"-8 x 3-1/2"
AFN-00012	Nut: 1"-8
503468	Ring: Steel, 3" ID
AFB-00021	HHCS: 1"-8 x 5-1/2" (8 Bolts Required)
AFN-00037	Nut: 1"-8 Top Lock
	601689 CNH 84268964 601685 601684 601713 400312 600925 400384 601026 400773 405000122 405000121 601550 601549 AFB-00086 AFN-00012 503468 AFB-00021

Bowl





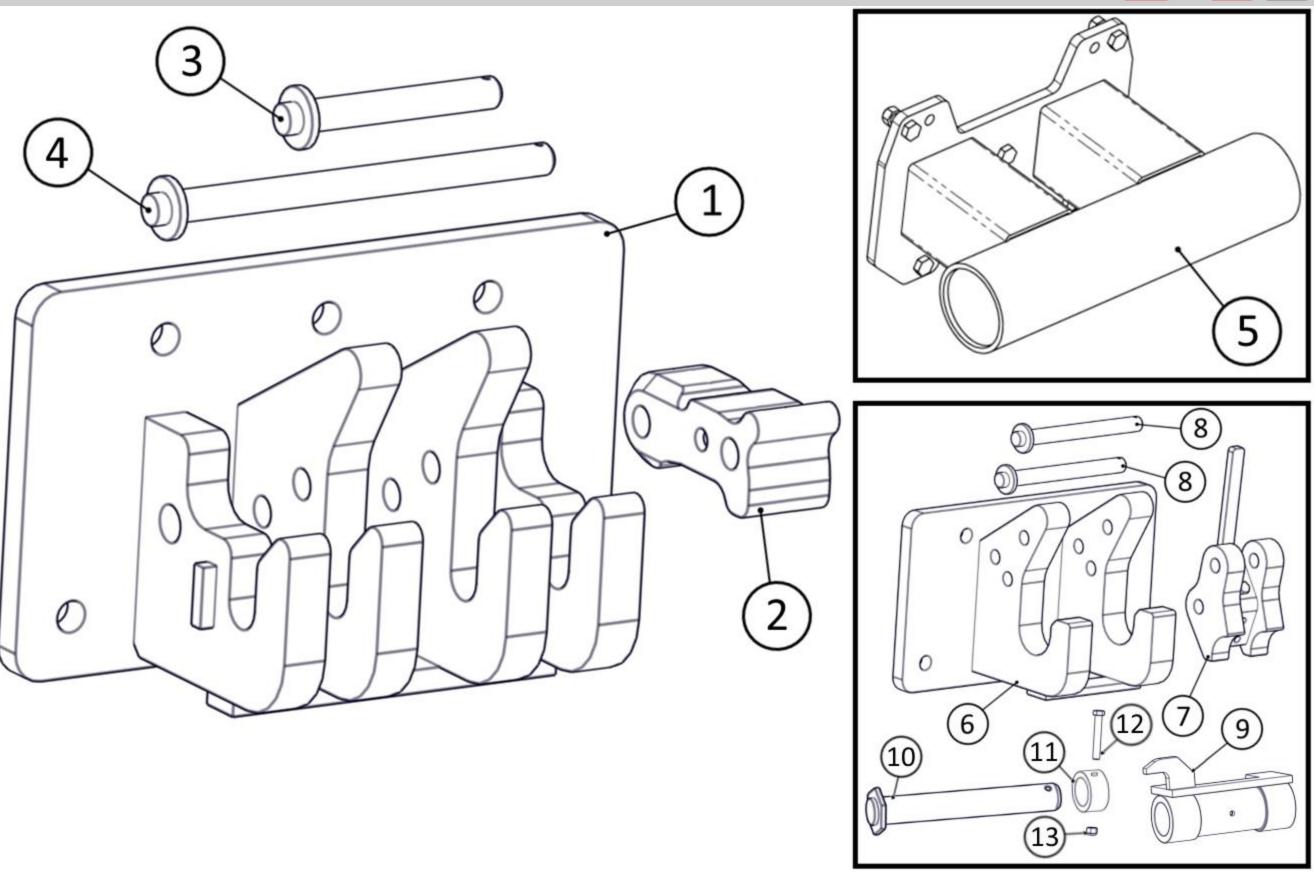
Item	1	Part Number	Description
1		501513	Guard: Apron Cylinder, RH
2		601356	Guard: Apron Cylinder, LH
3		501512	Guard: Valve Pivot
	Fastener	AFB-00128	Bolt: 3/8"-16 x 1" Serrated Flanged
4		501509	Cover: Rear Pipe
	Fastener	AFB-00094	HHCS: 3/8"-16 x 1"
5		502543	Guard: Hydraulic Rear, LH
6		502544	Guard: Hydraulic Rear, RH
7		502545	Guard: Hydraulic Rear Center
8		501650	Guard: Dirt Shield, LH & RH
	Fastener	AFB-00128	Bolt: 3/8"-16 x 1" Serrated Flanged
9		501994	Guard: Dirt Shield
10		600842	Guard: Dirt Shield, Rear Cap
	Fastener	AFB-00128	Bolt: 3/8"-16 x 1" Serrated Flanged
	Fastener	AFW-00010	Washer: 3/8"
11		A125410	Light: 4" Round Amber LED
12		500966	Shim: Axle Clamp
13		A125447	Socket: 7-Way Electrical Connector



Item	Part Number	Description
1	A125072	Blade: Center 18" x 54-1/4" Straight (9 Bolts Required)
Optional	A125072-SER	Blade: Center 18" x 54-1/4" Serrated (9 Bolts Required)
2	A125103	Blade: Corner 13" x 35-7/8" Straight (6 Bolts Required)
Optional	500788	Blade: Corner 18" x 35-7/8" Finishing (6 Bolts Required)
3	PB1P-NC-100-0275	Bolt: Flat Head Plow 1"-8 x 2-3/4"
4	AFN-00012	Nut: 1"-8
5	A123357	Blade: Cast Router Bit (5 Bolts Required)
6	AFB-00018	HHCS: 1"-8 x 3"

Rear Hitch

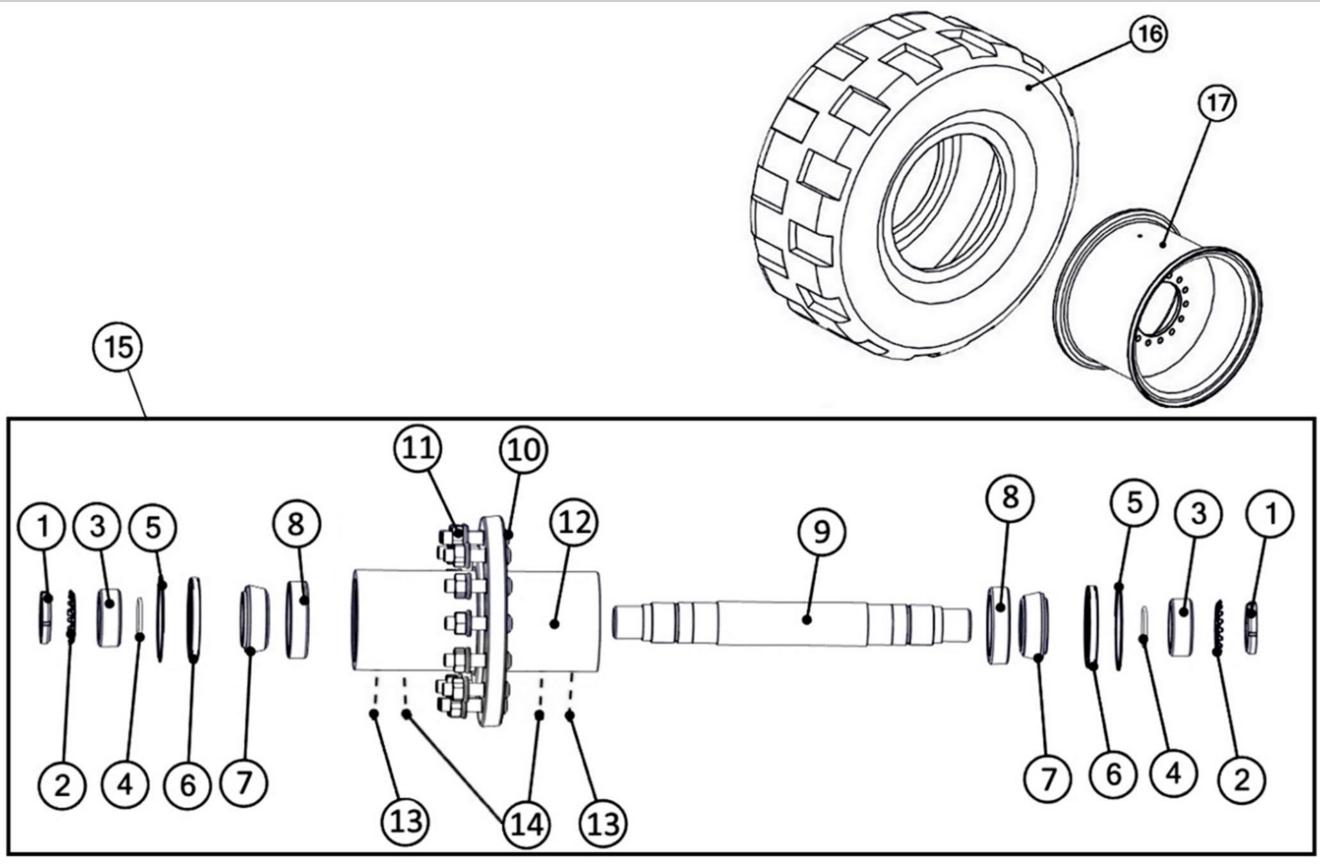




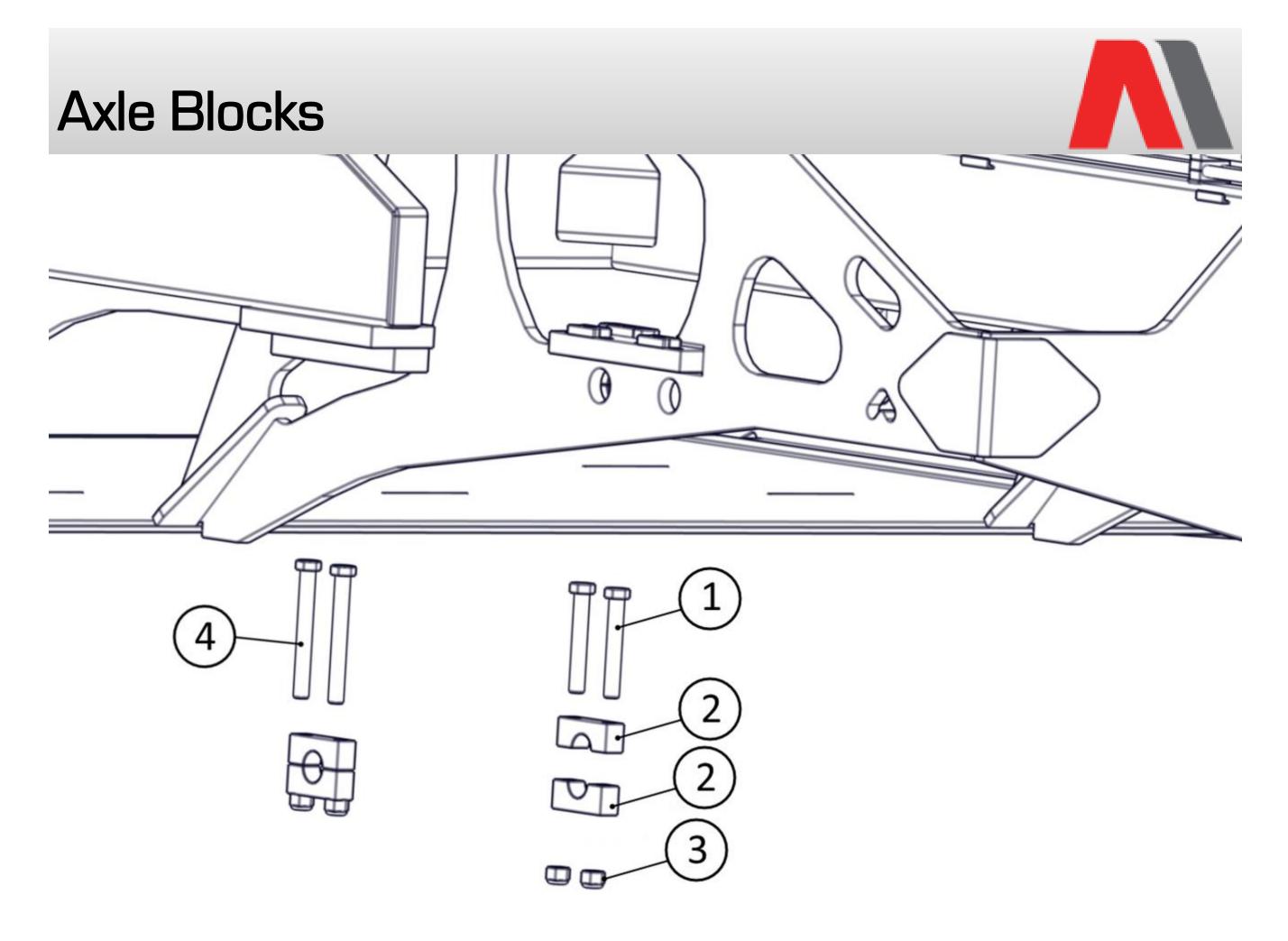
Item	Part Number	Description
Ashland Hitch	600479	Hitch Ass'y.: Rear Quick Hitch (Includes Items 1 – 4)
1	600476	Hitch: Rear Bolt-on, Main Body Ass'y.
2	600363	Lug: Quick Hitch
3	600480	Pin: Quick Hitch, Low-Profile – Short
4	600452	Pin: Quick Hitch, Low-Profile – Long
Optional	600478	Pushbar: Bumper Bolt-on (Includes Item 5)
Optional	601471	Hitch Ass'y.: JD Rear Quick Hitch (Includes Items 6 – 8)
6	601468	Hitch: Rear JD Bolt-on, Main Body Ass'y.
7	601470	Lug: JD Quick Hitch (Includes Handle 504566)
8	601478	Pin: 1" x 14" w/ Round Head
Fastener	AFB-00018	HHCS: 1"-8 x 3"
Fastener	AFN-00037	Nut: 1"-8 Top Lock
9	601392	Sleeve: JD Hitch Adapter, 60mm
Optional	600609	Pin Ass'y.: JD Pin w/ Collar, 60mm (Includes Items 10 – 13)
10	600610	Pin: JD Hitch, 60mm
11	501859	Collar: JD Hitch, 60mm
12	AFB-00112	HHCS: 1/2"-13 x 4-1/2"
13	AFN-00060	Nut: 1/2"-13

Wheel Assembly





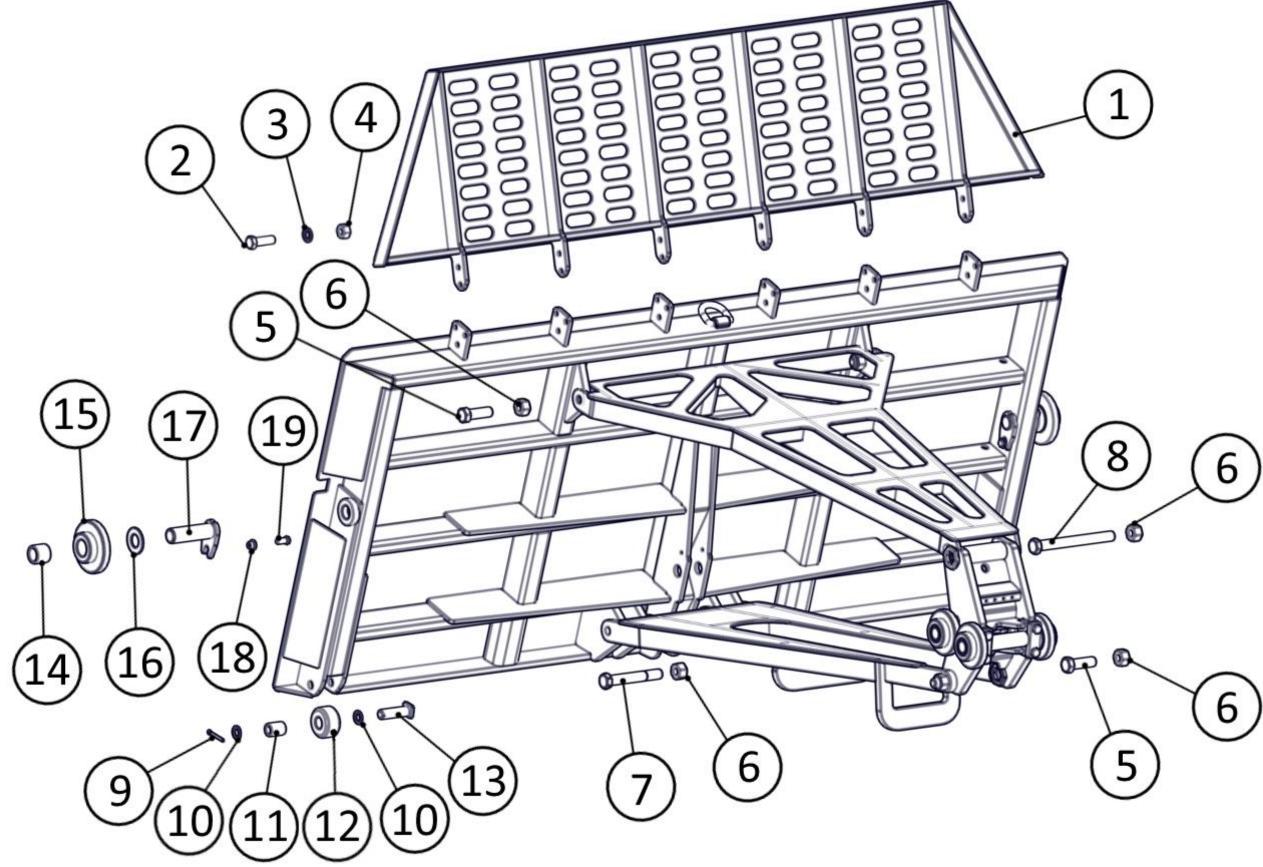
Item	Part Number	Description
1	A125202	Nut: Spindle 2-3/4"
2	A125203	Washer: Tab Lock
3	500140	Spacer: Bearing
4	A130H13	Seal: O-Ring 2-1/2" ID
5	A125204	Retaining Ring: Spindle 6" Internal
6	400802	Seal: Grease
7	A14015	Bearing: Cone Outer
8	A14014	Bearing: Cup Outer
9	503751	Axle: 3" Diameter x 25" Long
10	A125236	Stud: 22mm x 3-11/16"
11	A125229	Nut: Wheel Flanged 22mm
12	601235	Hub: 14-Hole Pass-Thru
13	14505	Fitting: 1/8"-27 Straight Grease
14	A125466	Vent: Pressure Relief 1/8" NPT
15	601236	Hub Ass'y.: Axle/Hub Complete
16	ATI-00011	Tire: 20.5 - 25
17	400068	Wheel: 17 x 25" 14-Hole



Item	Part Number	Description
1	AFB-00024	HHCS: 1"-14 x 7" (INSIDE BLOCKS ONLY)
2	500205	Block: 2-1/4" ID Axle Mount
3	AFN-00074	Nut: 1"-14 Nylon Insert Lock
4	AFB-00135	HHCS: 1"-14 x 9" (OUTSIDE BLOCKS ONLY)

Pushoff

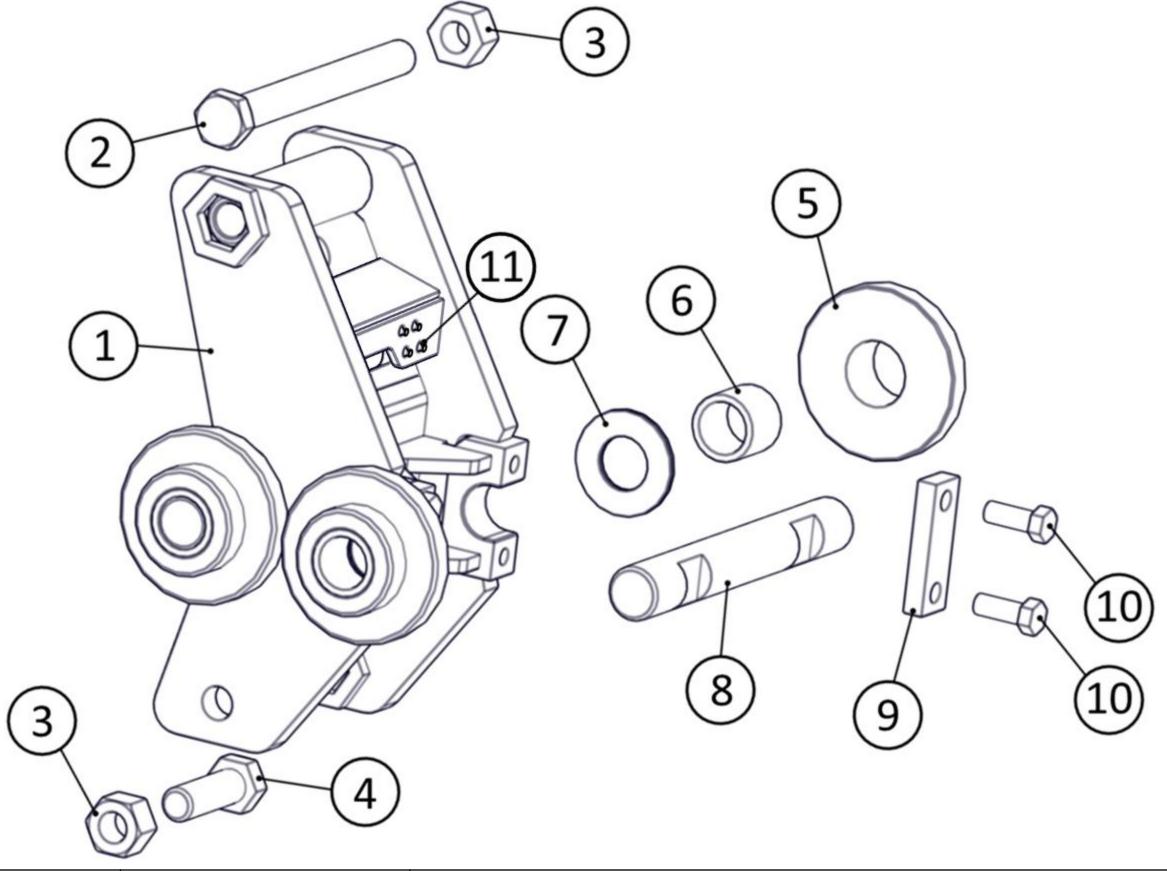




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Item	Part Number	Description
1	601032	Spill Plate Ass'y.: Tiltable
2	AFB-00037	HHCS: 3/4"-10 x 2"
3	AFW-00002	Washer: 3/4" Split Lock
4	AFN-00006	Nut: 3/4"-10
5	AFB-00076	HHCS: 1-1/4"-12 x 4"
6	AFN-00032	Nut: 1-1/4"-12 Nylon Insert Heavy Hex Jam
7	AFB-00109	HHCS: 1-1/4"-12 x 9"
8	AFB-00147	HHCS: 1-1/4"-12 x 13"
9	AFP-00001	Pin: 1/4" x 3" Cotter
10	AFW-00015	Washer: 1-1/4" Flat
11	400298	Bushing: 1-1/4" x 2-3/8" Fiber
12	503135	Roller: 4-1/4" OD Guide
13	601126	Pin: 1-1/4" x 5" for Fiber Bushing
14	400355	Bushing: 2" x 2-1/8" Fiber
15	503829	Roller: 7-1/2" OD Flanged Hold Down
16	501598	Spacer: 2" ID
17	601265	Pin: 2" x 7" w/ Flag Head for Fiber Bushing
18	A123358	Bushing: 11/16" ID Pin Keeper w/ Flange
19	AFB-00079	HHCS: 5/8"-11 x 1-1/2"

Pushoff Truck

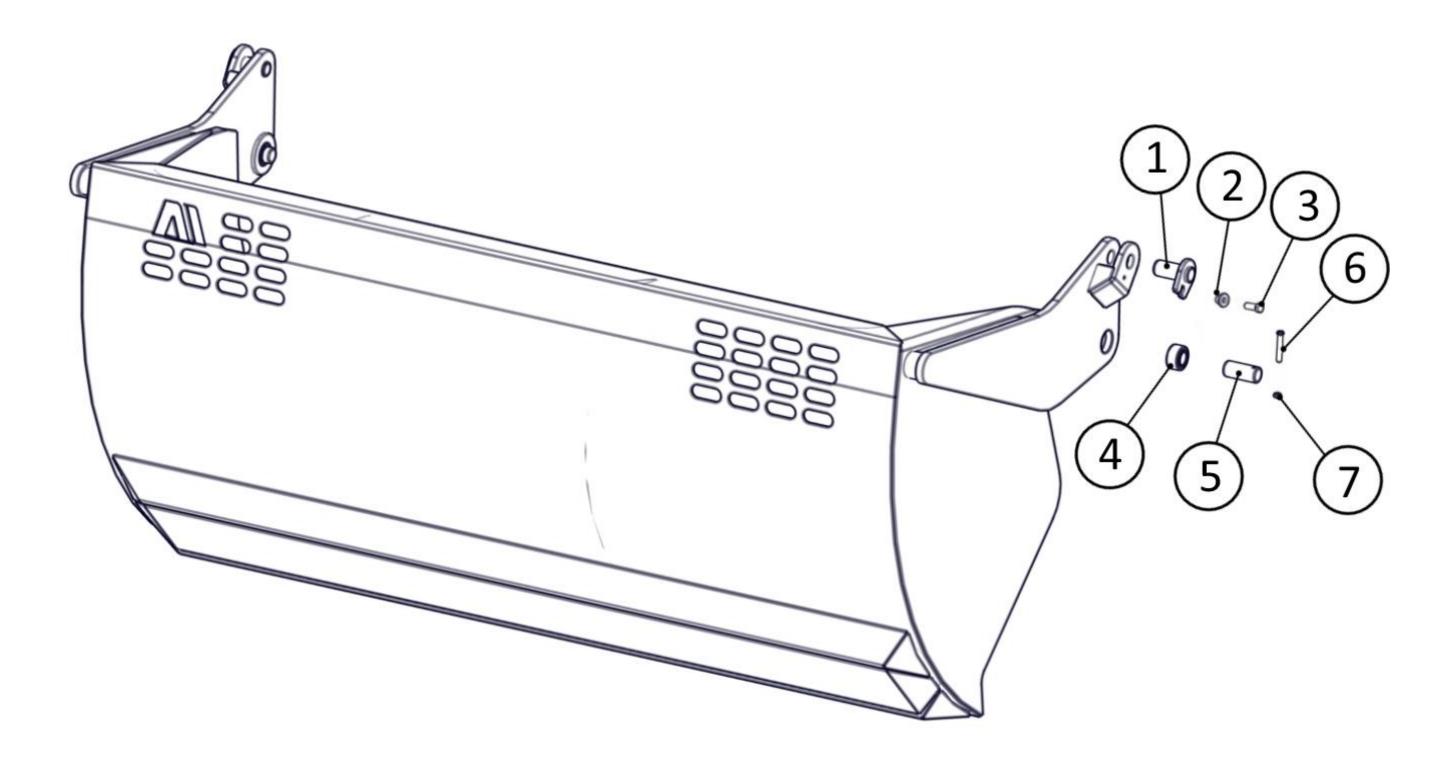




Item	Part Number	Description
1	600468	Truck Body: Main Housing
2	AFB-00147	HHCS: 1-1/4"-12 x 13"
3	AFN-00032	Nut: 1-1/4"-12 Nylon Insert Heavy Hex Jam
4	AFB-00076	HHCS: 1-1/4"-12 x 4"
5	501617	Roller: 6-1/2" Flanged Pushoff Guide
6	501619	Bushing: 2" x 2-1/8" Bronze
7	501598	Spacer: 2" ID Steel
8	501615	Spindle: 2" x 15" Notched Truck
9	501550	Block: 1-3/4" x 5" Flat Clamp
10	AFB-00037	HHCS: 3/4"-10 x 2"
11	A125022	Grease Line: 18" Assembly

Apron

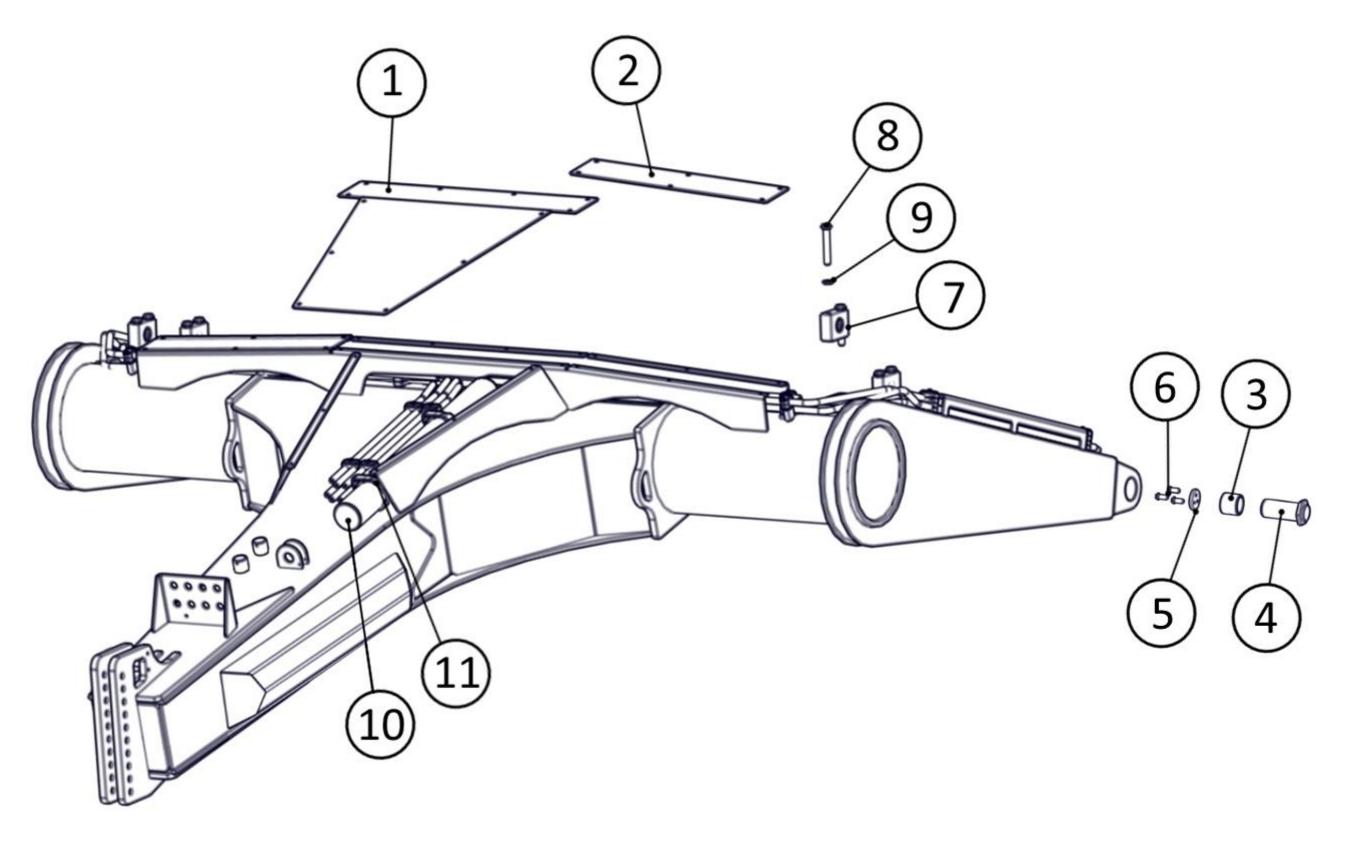




Item	Part Number	Description
1	A123322-14	Pin: 2" x 4-1/4" w/ Tab Head
2	A123358	Bushing: 11/16" ID Pin Keeper w/ Flange
3	AFB-00079	HHCS: 5/8"-11 x 1-1/2"
4	A125257-35	Bushing: 2" ID Spherical
5	A123321-113	Pin: 2" x 4-3/4" Greaseable
6	AFB-00012	HHCS: 1/2"-13 x 4-1/2"
7	AFN-00011	Nut: 1/2"-13

Front Section

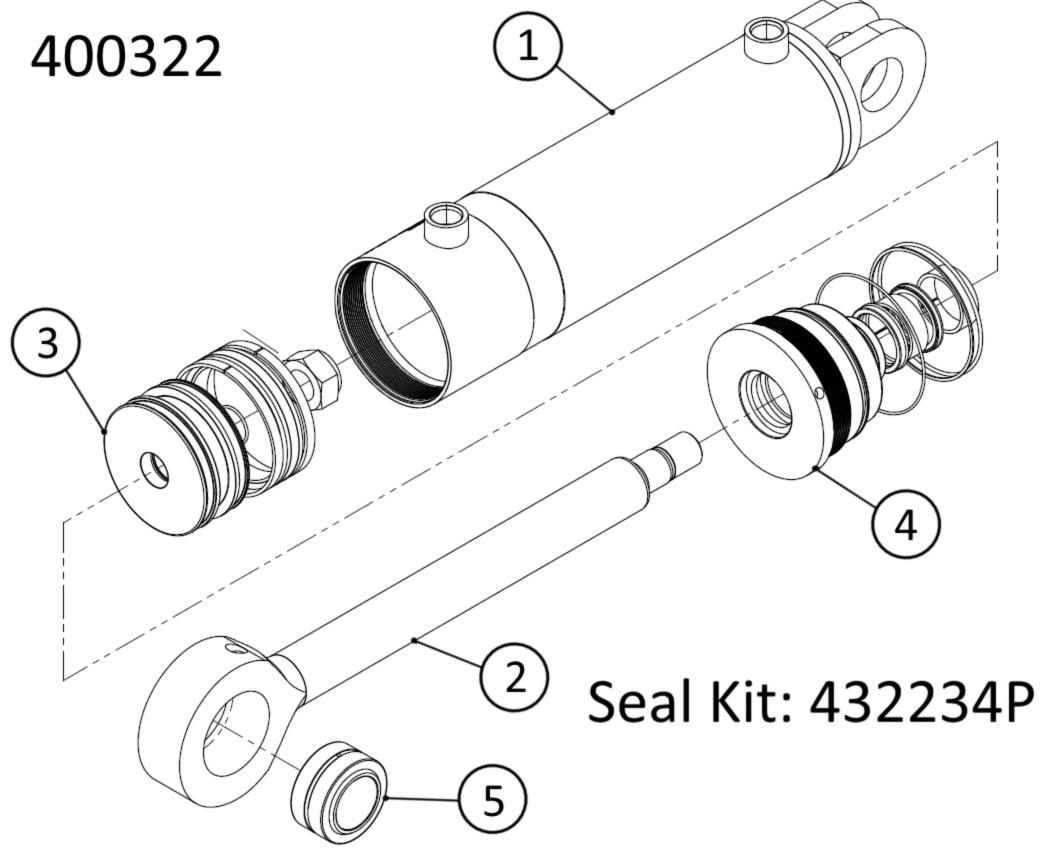




Item	Part Number	Description
1	502508	Guard: Center
2	502513	Guard: Left & Right
3	A123320-08	Bushing: 3" ID x 3-1/2" OD Bronze
4	601561	Pin: 3" x 7" w/ Hex Head
5	504672	Cap: 3-1/2" OD Pin Keeper w/ 3-Holes
6	AFB-00079	HHCS: 5/8"-11 x 1-1/2"
7	502143	Block: 2" ID Trunnion Mount
8	AFB-00039	HHCS: 3/4"-10 x 5-1/2"
9	AFW-00002	Washer: 3/4" Split Lock
10	A125005	Accumulator: Hydraulic
11	A125009	Clamp: Accumulator Bracket

Apron Cylinder - 400322

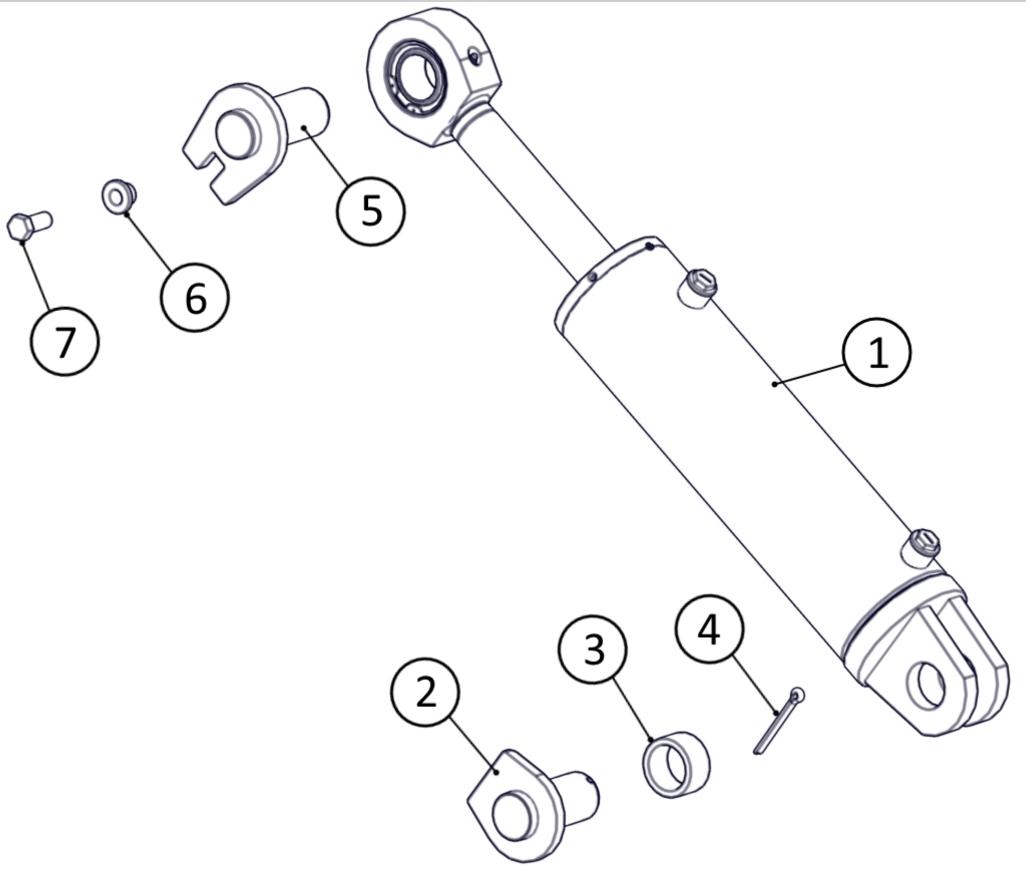




Item	Part Number	Description
1	202006P	Barrel: for 5" x 13" Cylinder
2	301657P	Rod: 2"
3	400782P	Piston: Ass'y. 5" x 1-1/4"
4	500929P	Head: Ass'y. 5" x 2"
5	A125257-35	Bushing: 2" ID Spherical
Seal Kit	432234P	Kit: Seal for 400322

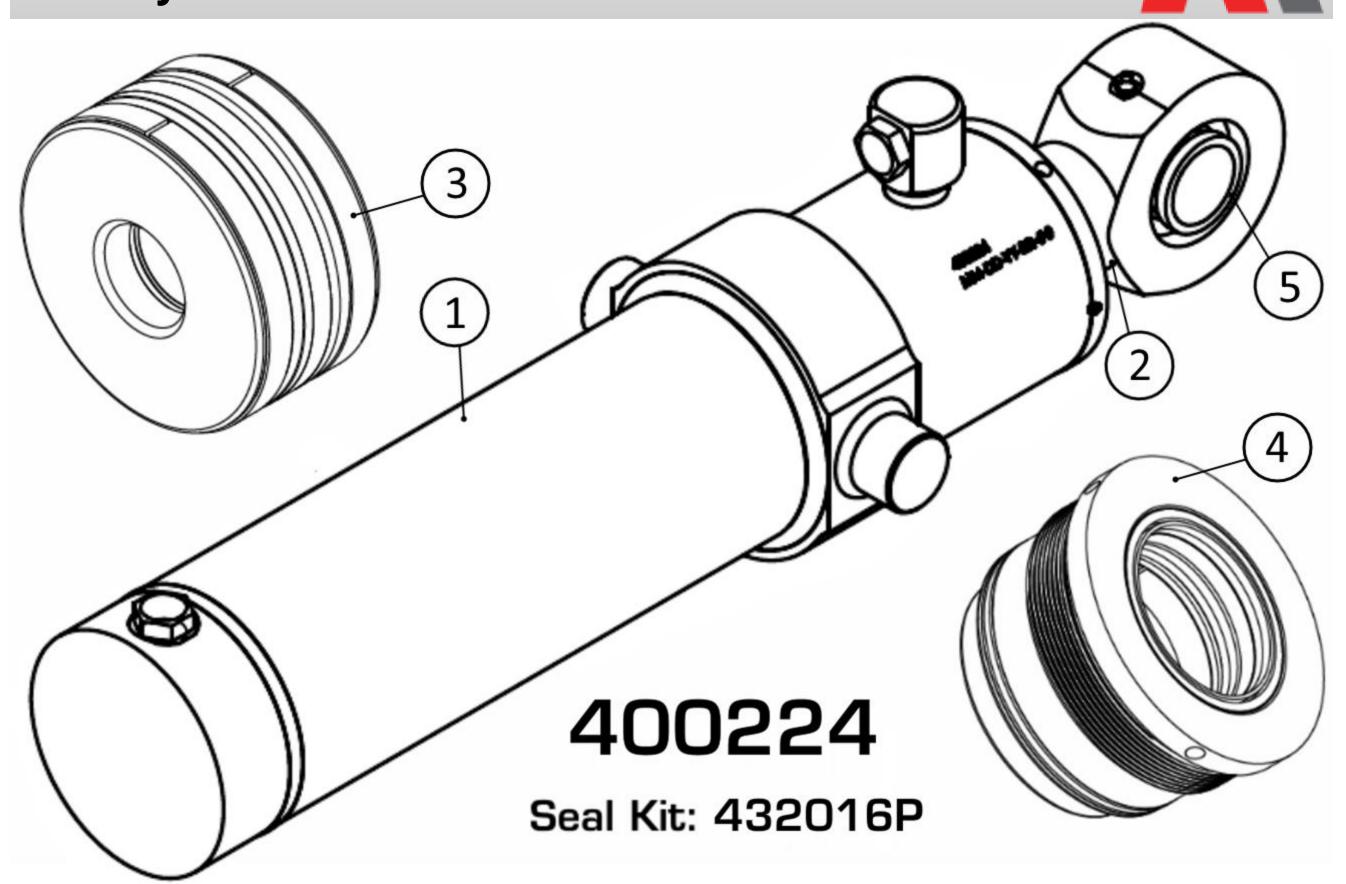
Apron Cylinder Pins





Item	Part Number	Description
1	400322	Cylinder: 5" x 13" x 2"
2	601273	Pin: 2-1/2" x 3-3/4" w/ Tab Head for Fiber Bushing
3	400357	Bushing: 2-1/2" x 1-1/4" Fiber
4	AFP-00001	Pin: 1/4" x 3" Cotter
5	A123322-14	Pin: 2" x 4-1/4" w/ Tab Head
6	A123358	Bushing: 11/16" ID Pin Keeper w/ Flange
7	AFB-00079	HHCS: 5/8"-11 x 1-1/2"

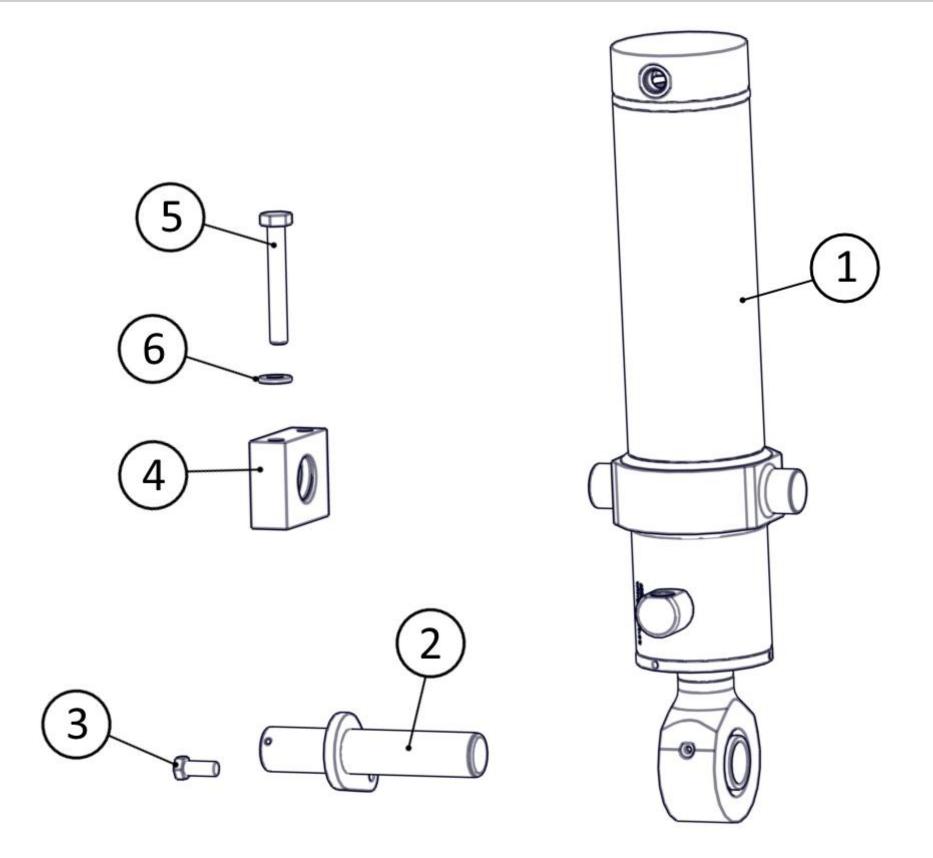
Lift Cylinder - 400224



Item	Part Number	Description
1	201870P	Barrel: for 5-1/2" x 20" Cylinder
2	301537P	Rod: 2-1/2"
3	400692P	Piston: Ass'y. 5-1/2" x 2-3/8"
4	500847P	Head: Ass'y. 5-1/2" x 2-1/2"
5	720019P	Bushing: 2" Spherical w/ Extended Inner Race
Seal Kit	432016P	Kit: Seal for 400224

Lift Cylinder Pins

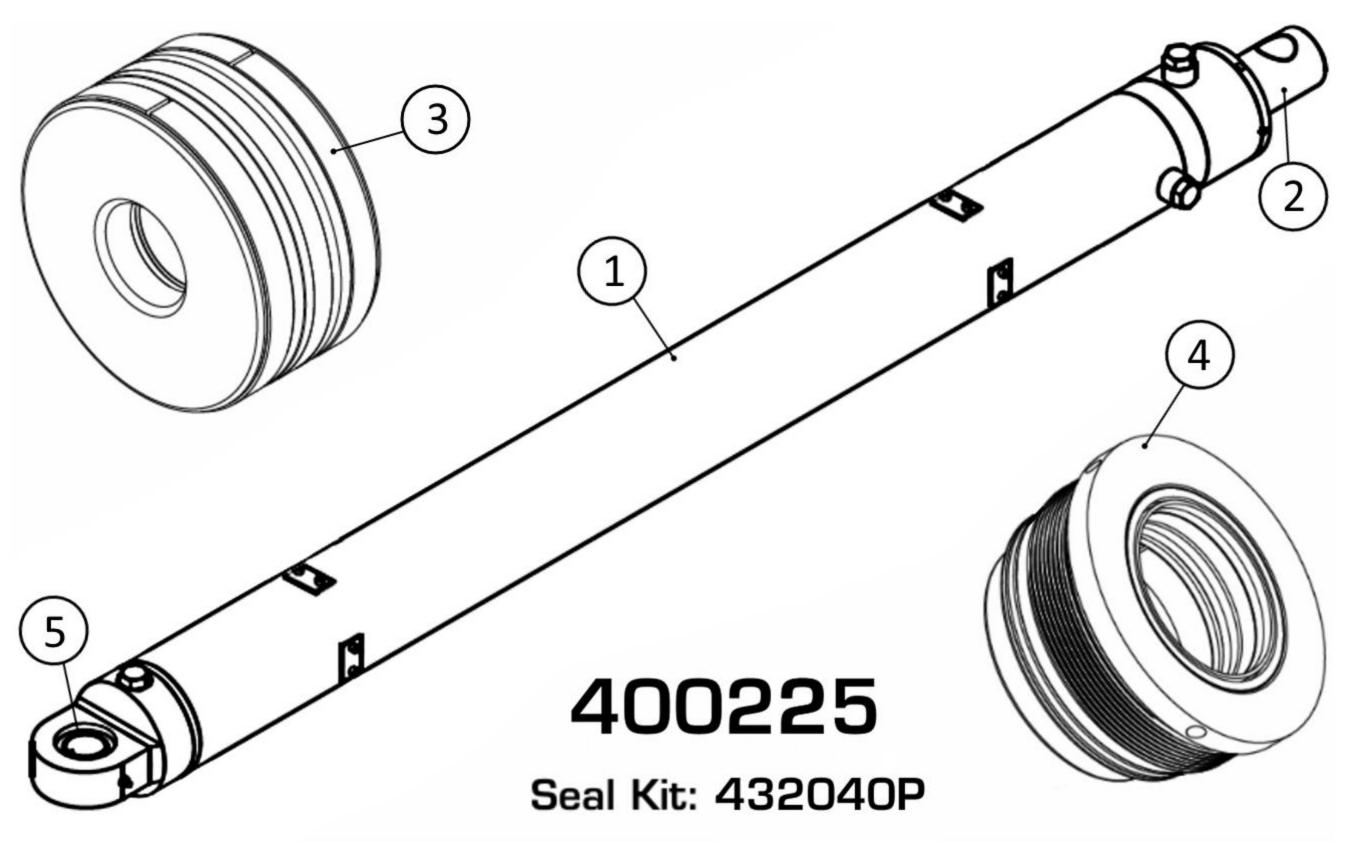




Item	Part Number	Description
1	400224	Cylinder: 5-1/2" x 20" x 2-1/2"
2	600221	Pin: 2" x 6-1/2" w/ Tab Head
3	AFB-00143	HHCS: 1/2"-13 x 1"
4	502143	Block: 2" ID Trunnion Mount
5	AFB-00039	HHCS: 3/4"-10 x 5-1/2"
6	AFW-00002	Washer: 3/4" Split Lock

Pushoff Cylinder - 400225

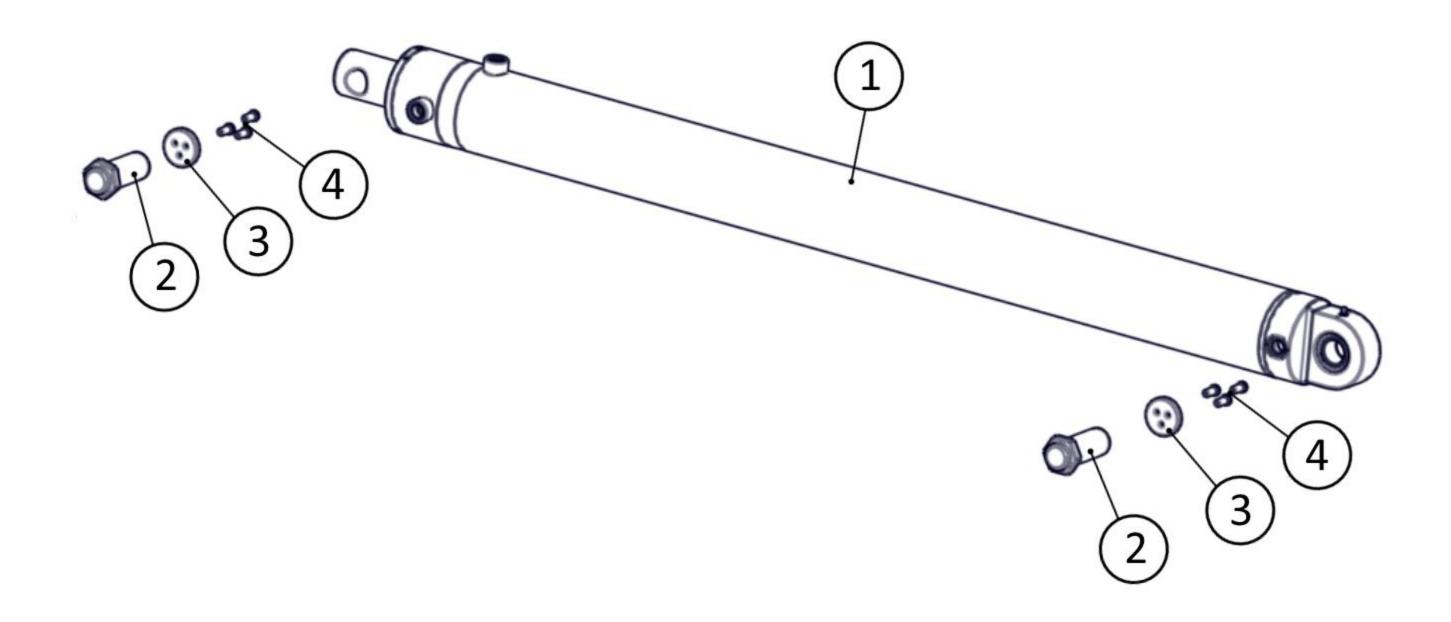




Item	Part Number	Description
1	201872P	Barrel: for 5" x 60" Cylinder
2	301539P	Rod: 3"
3	411079P	Piston: Ass'y. 5" x 1-3/4"
4	511202P	Head: Ass'y. 5" x 3"
5	400387	Bushing: 1-3/4" ID Spherical w/ PTFE Lining
Seal Kit	432040P	Kit: Seal for 400225
	AHL-00001	Clamp: 3/4" Hydraulic Tube
	400350	Tube Ass'y.: Pushoff Cylinder Jumper
	AHA-00044	Adapter: 90 Deg. 3/4" Male JIC x 1-1/16" Male ORB

Pushoff Cylinder Pins

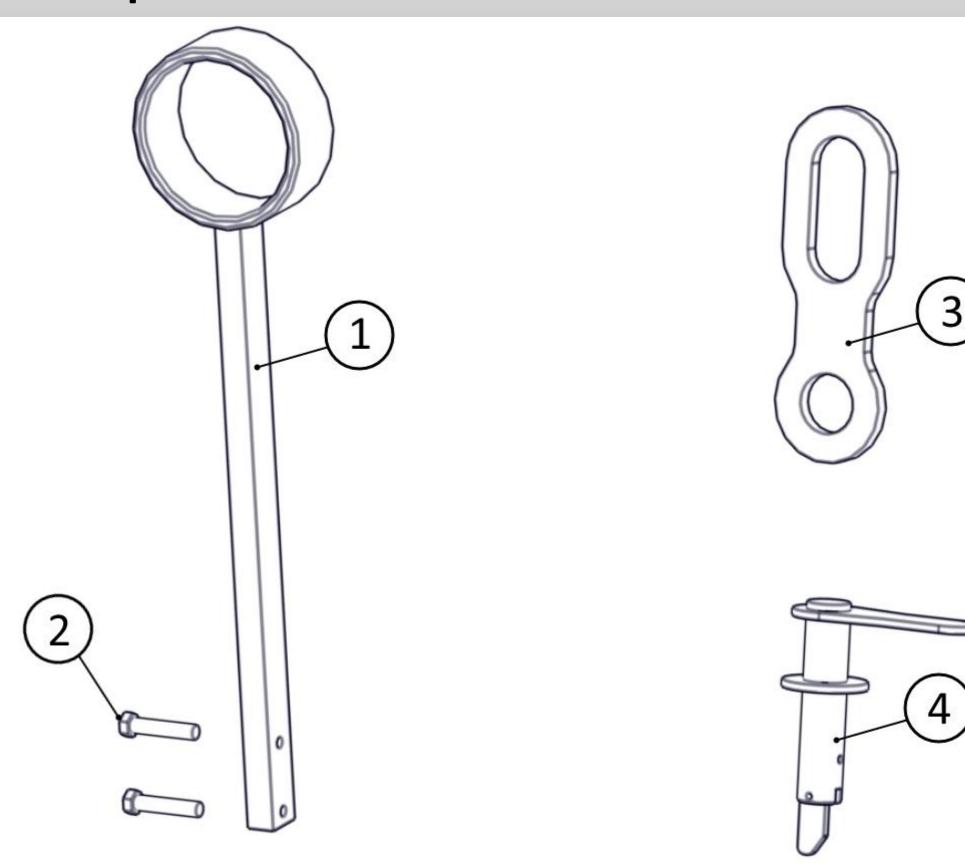




Item	Part Number	Description
1	400225	Cylinder: 5" x 60" x 3"
2	601562	Pin: 1-3/4" x 4-3/16" w/ Hex Head
3	504703	Cap: 2-1/2" OD Pin Keeper w/ 3-Holes
4	AFB-00034	HHCS: 3/8"-16 x 1"

Transport Locks & Hose Holder

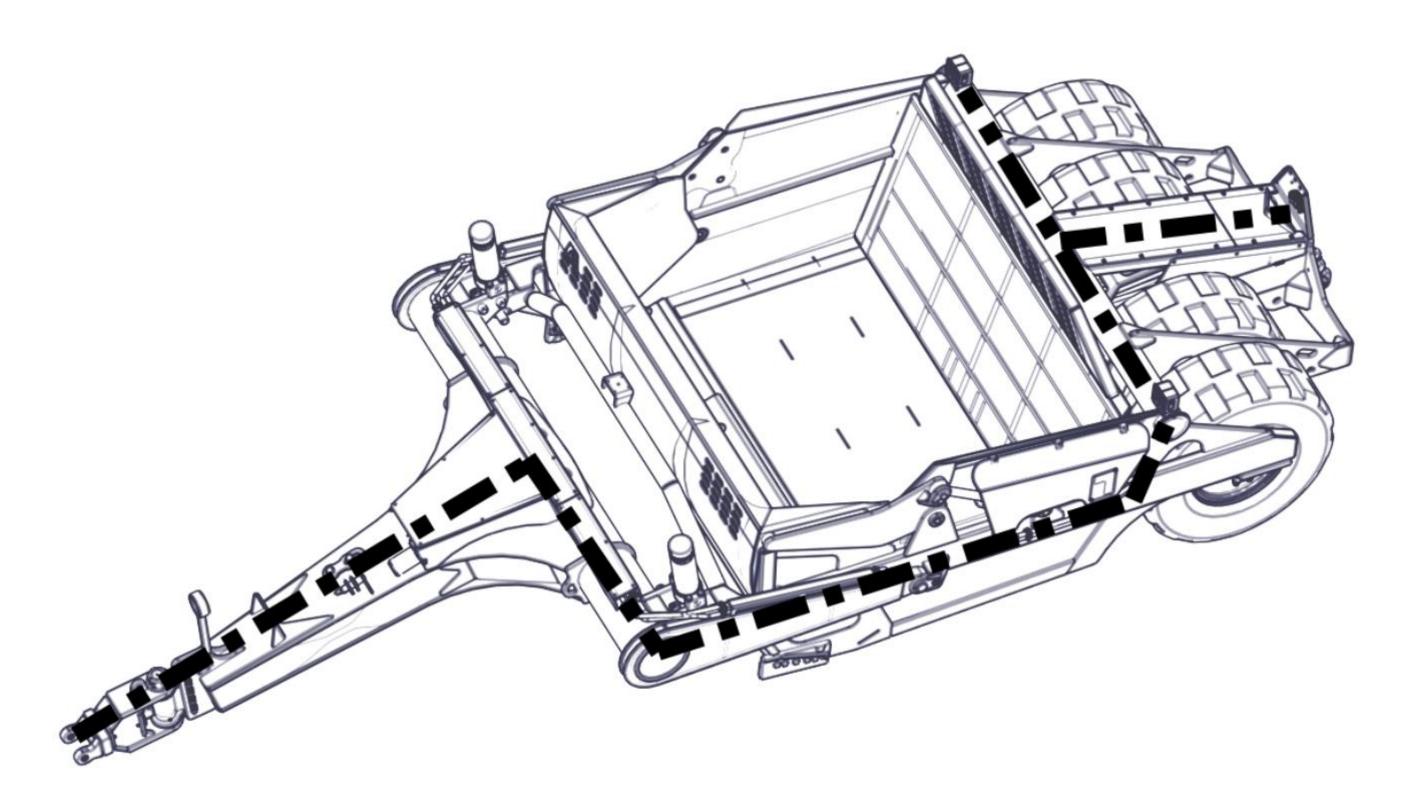




Item	Part Number	Description
1	600119C	Holder: Hose Keeper
2	AFB-00033	HHCS: 1/2"-13 x 2-1/2"
3	502382	Lock: Transport
4	600121	Lock: Apron Pin

Wire Harness

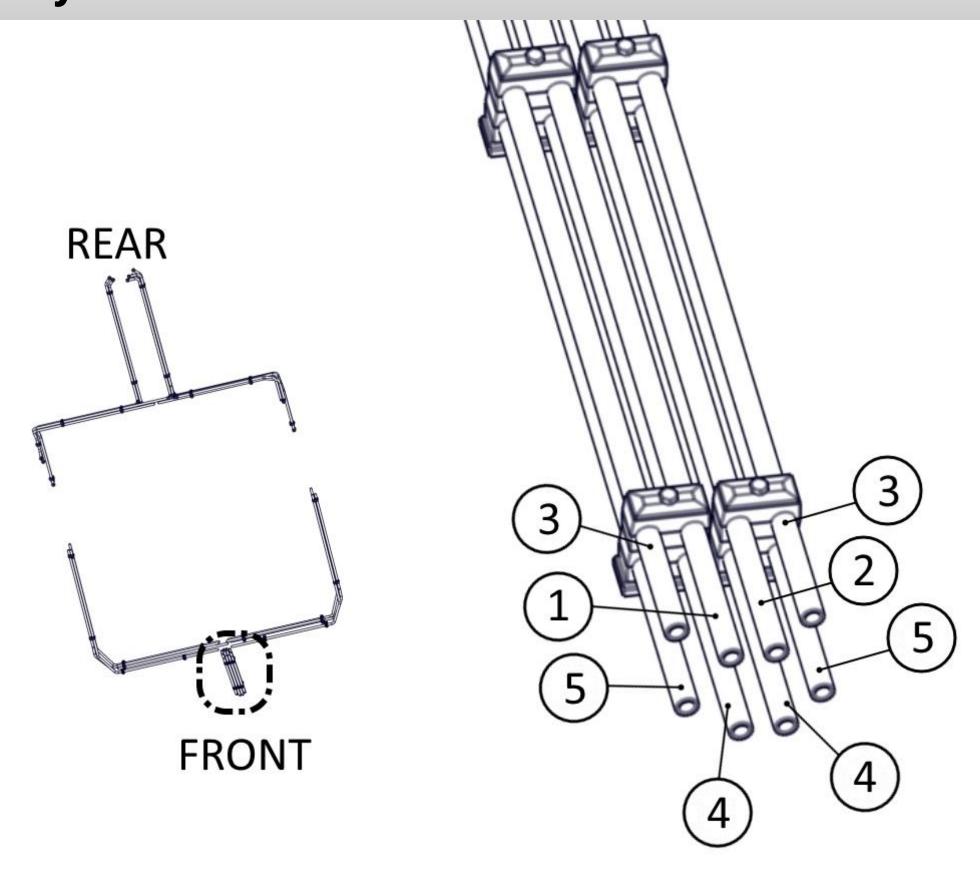




Item	Part Number	Description
Assembly	A125444	Wire Harness

Hydraulic Tube - Front Center

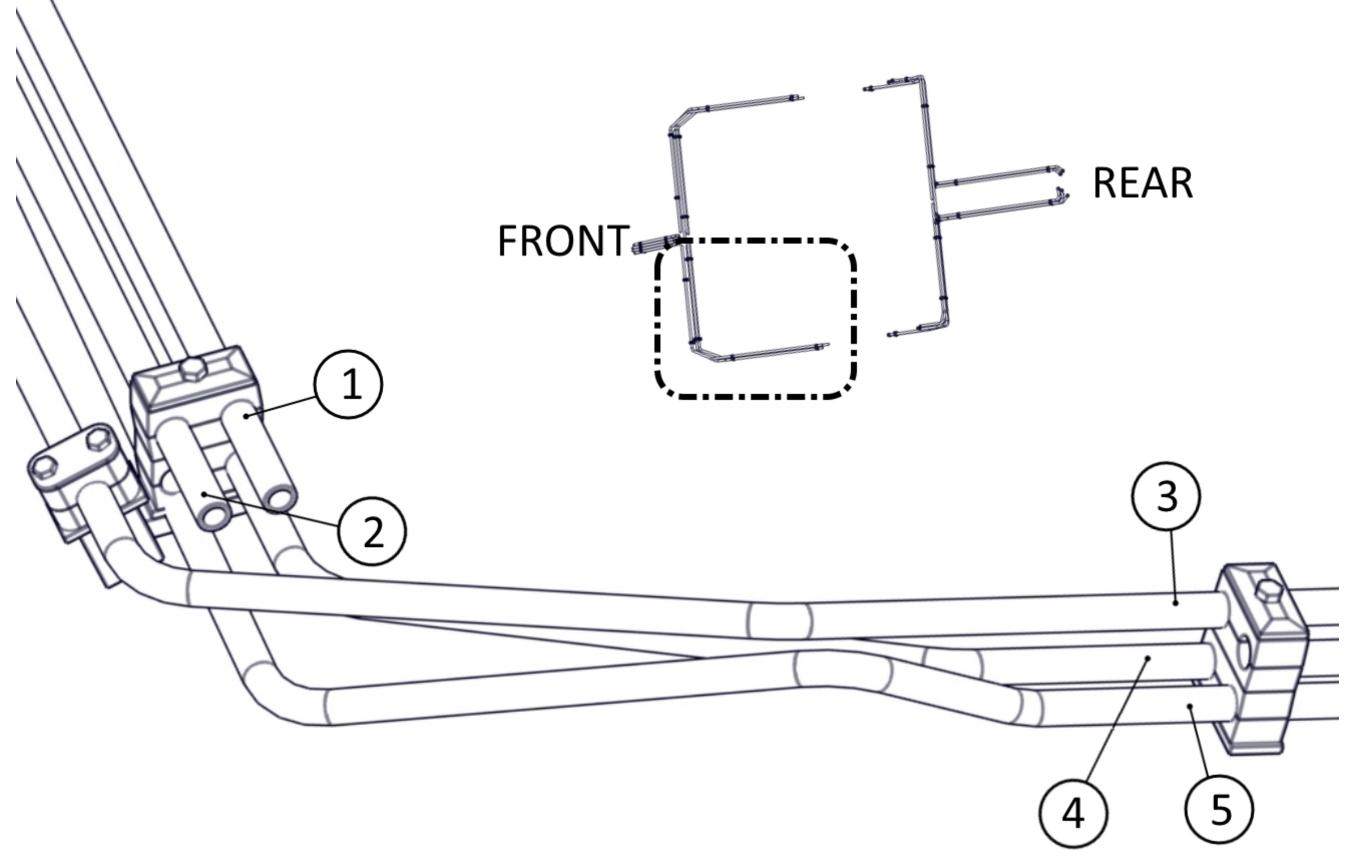




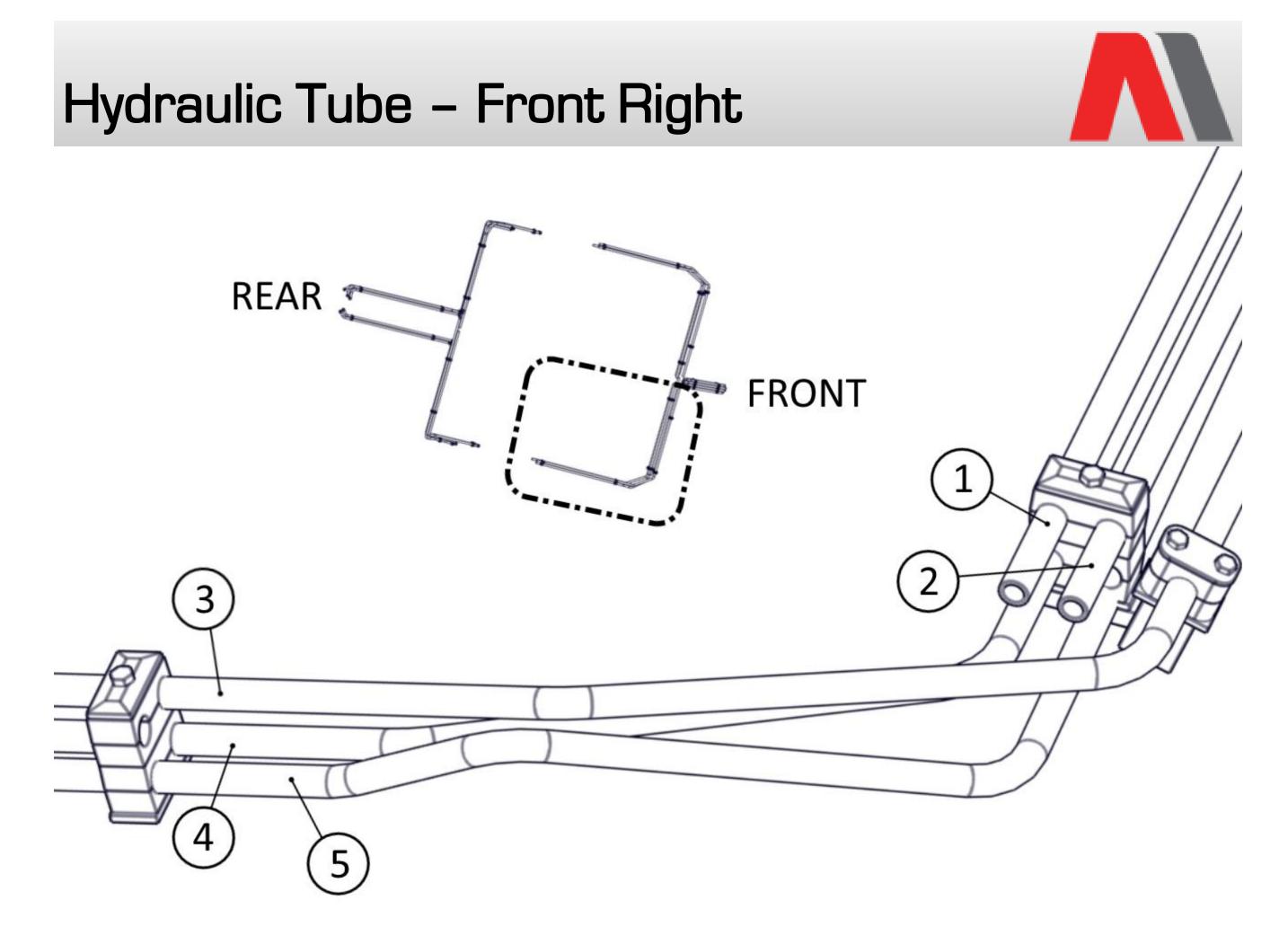
Item	Part Number	Description
1	400122	Tube Ass'y.: Front, Top, Right Inner
2	400140	Tube Ass'y.: Front, Top, Left Inner
3	400125	Tube Ass'y.: Front, Top, Left & Right Outer
4	400123	Tube Ass'y.: Front, Bottom, Left & Right Inner
5	400118	Tube Ass'y.: Front, Bottom, Left & Right Outer

Hydraulic Tube - Front Left





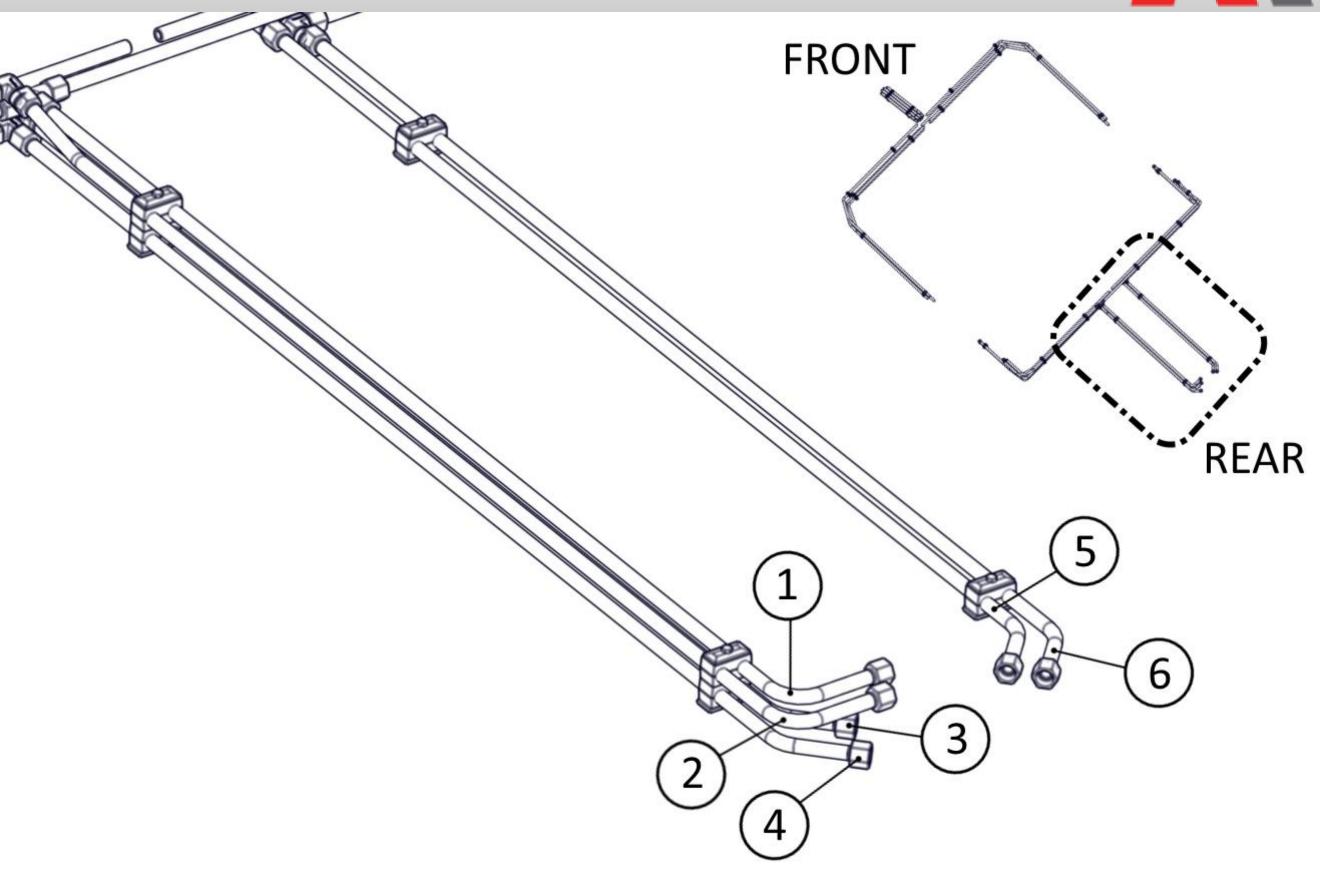
Item	Part Number	Description
1	400139	Tube Ass'y.: Pipe, Left, Inner, Top
2	400121	Tube Ass'y.: Pipe, Left, Outer, Top
3	400115	Tube Ass'y.: Arm, Left, Inner, Top
4	400114	Tube Ass'y.: Arm, Left, Inner, Bottom
5	400113	Tube Ass'y.: Arm, Left, Outer, Bottom



Item	Part Number	Description
1	400119	Tube Ass'y.: Pipe, Right, Inner, Top
2	400120	Tube Ass'y.: Pipe, Right, Outer, Top
3	400117	Tube Ass'y.: Arm, Right, Inner, Top
4	400116	Tube Ass'y.: Arm, Right, Inner, Bottom
5	400112	Tube Ass'y.: Arm, Right, Outer, Bottom

Hydraulic Tube - Rear Center

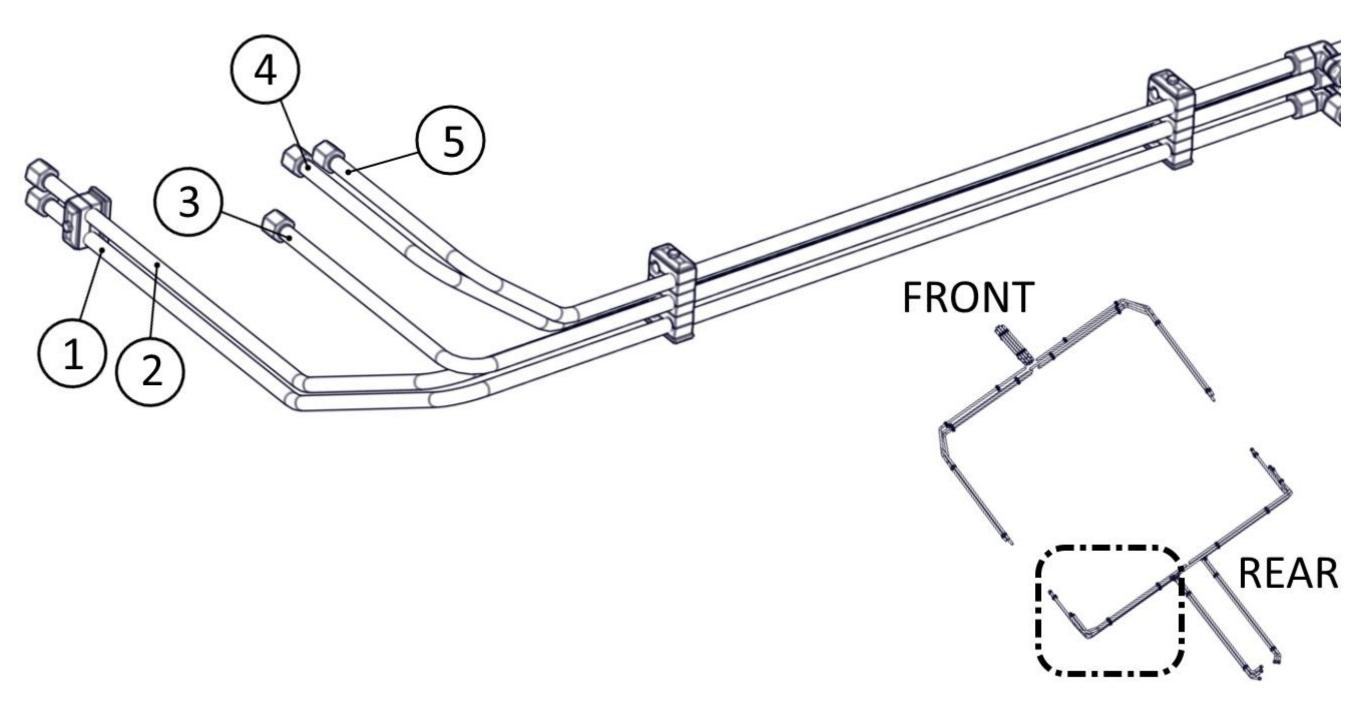




Item	Part Number	Description
1	400180	Tube Ass'y.: Back, Left, Upper, Inner
2	400181	Tube Ass'y.: Back, Left, Upper, Outer
3	400182	Tube Ass'y.: Back, Left, Lower, Inner
4	400179	Tube Ass'y.: Back, Left, Lower, Outer
5	400178	Tube Ass'y.: Back, Right, Lower, Inner
6	400183	Tube Ass'y.: Back, Right, Lower, Outer

Hydraulic Tube - Rear Left

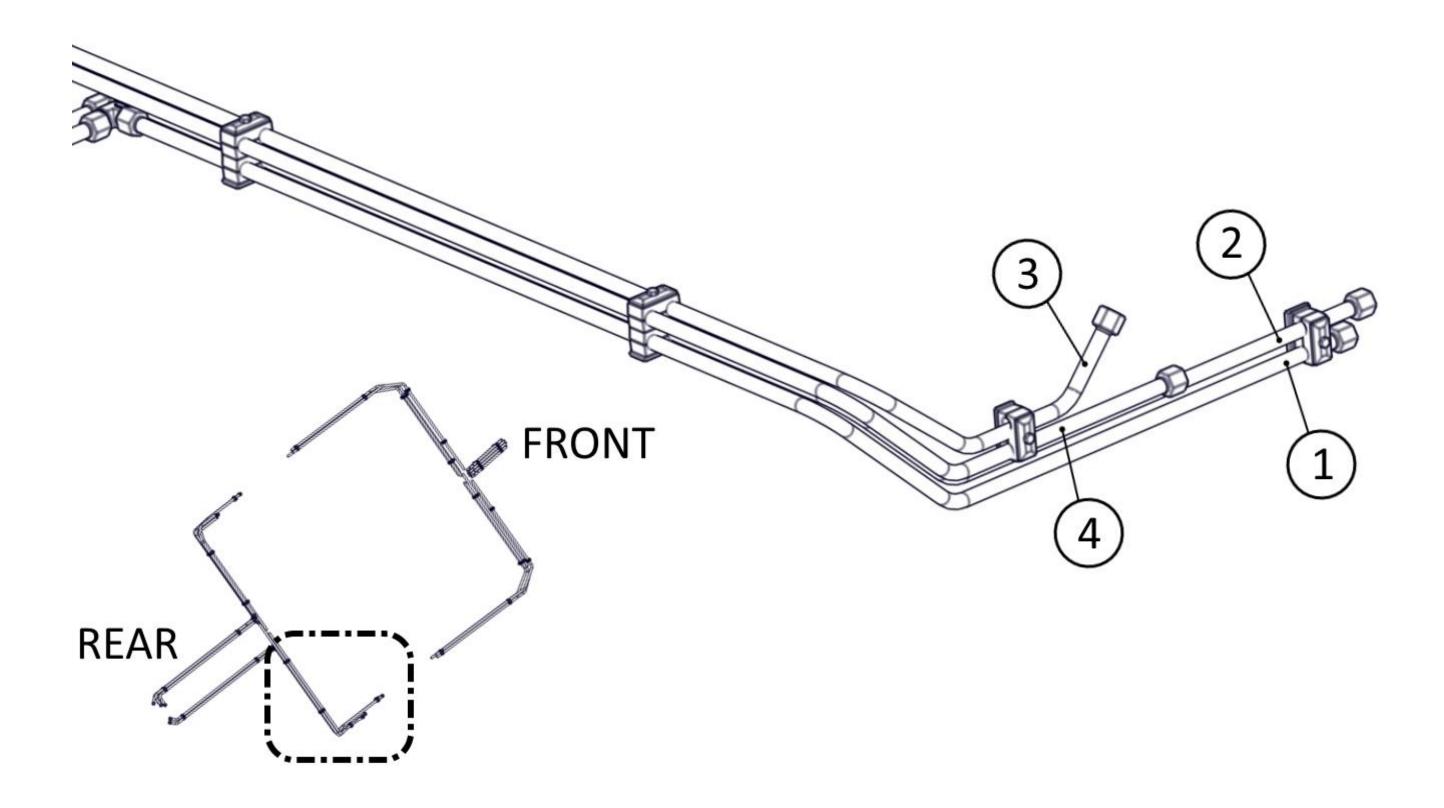




Item	Part Number	Description	
1	400201	Tube Ass'y.: Rear, Left, Lower, Outer	
2	400199	Tube Ass'y.: Rear, Left, Lower, Inner	
3	400196	Tube Ass'y.: Rear, Left, Middle, Outer	
4	400194	Tube Ass'y.: Rear, Left, Middle, Inner	
5	400198	Tube Ass'y.: Rear, Left, Upper, Outer	

Hydraulic Tube - Rear Right



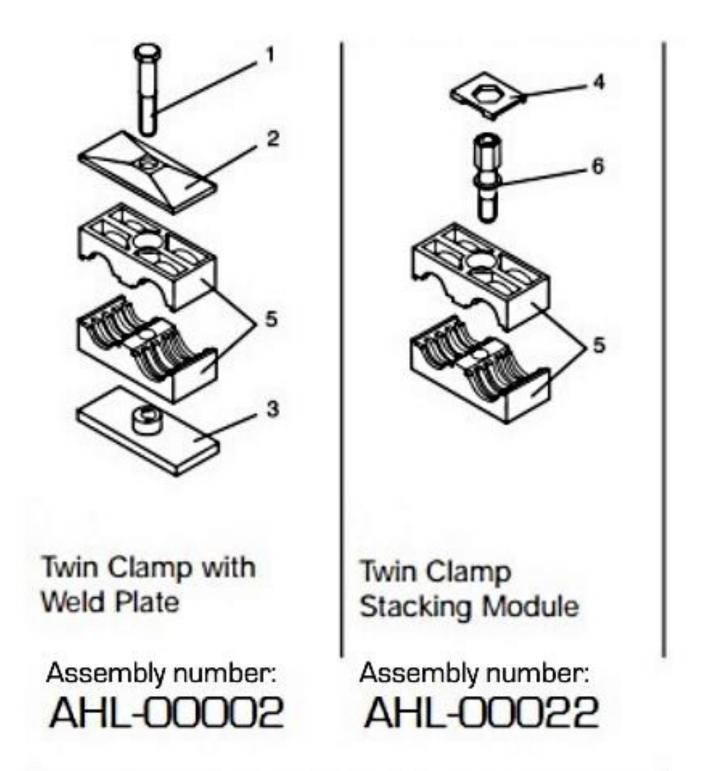


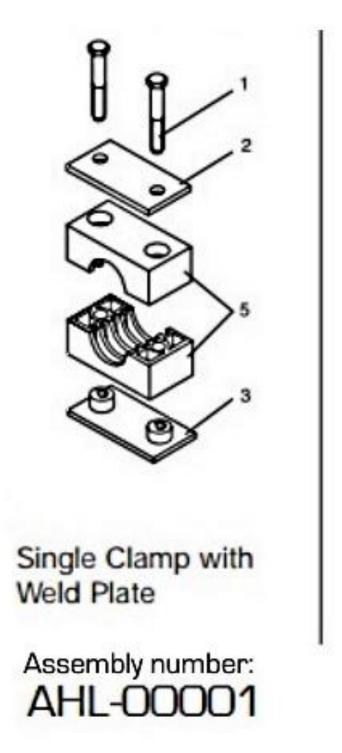
Item	Part Number	Description	
1	400202	Tube Ass'y.: Rear, Right, Lower, Outer	
2	400200	Tube Ass'y.: Rear, Right, Lower, Inner	
3	400195	Tube Ass'y.: Rear, Right, Upper, Inner	
4	400197	Tube Ass'y.: Rear, Right, Upper, Outer	

Hydraulic Tube Clamps



Each Tube Clamp is sold as a complete assembly.





Parts Legend

- 1 Hex Head Bolt
- 2 Top Plate
- 3 Weld Plate
- 4 Safety Plate

- 5 Clamp Pair
- Stacking Bolt

Hydraulic Hose & Adapters



Item			
Item	Part Number	Description	
Kit	A125445	Kit: 220TS4 37pc Complete Hose Kit	
	600750	Hose Ass'y.: Back Pushoff 23.3" OAL FJIC x FJIC	
	600751	Hose Ass'y.: Back Pushoff 27.4" OAL MJIC x FJIC	
	600752	Hose Ass'y.: Rear Bulkhead 13.82" OAL FJIC x FJIC 90	
	600753	Hose Ass'y.: Lift Cylinder 25.3" OAL FJIC x FJIC	
	600754	Hose Ass'y.: Lift Cylinder 30.11" OAL MORB x FJIC	
	600755	Hose Ass'y.: Front Bulkhead 46.33" OAL FJIC x MJIC	
	600756	Hose Ass'y.: Front Bulkhead 47.33" OAL FJIC x MJIC	
	600757	Hose Ass'y.: Front Bulkhead 48.33" OAL FJIC x MJIC	
	600758	Hose Ass'y.: Front Bulkhead 49.33" OAL FJIC x MJIC	
	600759	Hose Ass'y.: Accumulator 15.63" OAL MORB x FJIC 90	
	600760	Hose Ass'y.: Right Side 29.11" OAL MORB x FJIC	
	600761	Hose Ass'y.: Right Side 35.4" OAL MJIC x FJIC	
	600762	Hose Ass'y.: Right Side 42.5" OAL MJIC x MJIC	
	600763	Hose Ass'y.: Right Side 44.5" OAL MJIC x MJIC	
	600764	Hose Ass'y.: Right Side 51.4" OAL FJIC x MJIC	
	600765	Hose Ass'y.: Left Side 23.11" OAL MORB x FJIC	
	600766	Hose Ass'y.: Left Side 29.11" OAL MORB x FJIC	
	600767	Hose Ass'y.: Left Side 40.5" OAL MJIC x MJIC	
	600768	Hose Ass'y.: Left Side 42.5" OAL FJIC x MJIC	
	600769	Hose Ass'y.: Left Side 58.4" OAL FJIC x MJIC	
	600770	Hose Ass'y.: Connecting Feed 85" OAL FJIC x MNPT	
Item	Part Number	Description	
	AHF-00021	Coupler: ½" Male Body	
	AHF-00023	Coupler: ½" Female Body	
	AHF-00025	Cap: ½" Female Body w/ Chain	
	400210	Cap: ½" Body, Black	
	400219	Cap: ½" Body, Red	
	AHA-00019	Adapter: 90 Deg. 3/4" MJIC x 3/4" MJIC	
	AHA-00022	Adapter: Tee 3/4" MJIC x 3/4" MJIC x 3/4" MJIC	
	AHA-00050	Adapter: Tee 3/4" MJIC x 3/4" FJIC Swivel x 3/4" MJIC	
	AHA-00063	Adapter: 45 Deg. 3/4" MJIC x 3/4" MJIC Bulkhead w/ Nut	
	AHA-00066	Adapter: Tee 3/4" MORS x 3/4" MORS x 3/4" MORS	
	AHA-00067	Adapter: 90 Deg. 3/4" MORS x 3/4" MORS	
	AHA-00068	Adapter: 90 Deg. 3/4" MORS x 3/4" MORB	
	AHA-00069	Adapter: Straight 3/4" MORS x 3/4" MORB	
	AHA-00071	Adapter: Tee 3/4" MORS x 3/4" FORS Swivel x 3/4" MORS	
	AHA-00075	Adapter: 90 Deg. 3/4" Male ORB x 3/4" Male ORS Long	
	AHA-00093	Adapter: Straight 3/4" MJIC x 3/4" MNPT Bulkhead w/ Nut	
	AHA-00102	Adapter: Straight 3/4" MORB x 3/4" MORB Union	
	AHA-00129	Adapter: Straight Live Swivel 3/4" MJIC x 3/4" FJIC	
	AHA-00022 AHA-00050 AHA-00063 AHA-00066 AHA-00067	Adapter: Tee 3/4" MJIC x 3/4" MJIC x 3/4" MJIC Adapter: Tee 3/4" MJIC x 3/4" FJIC Swivel x 3/4" MJIC Adapter: 45 Deg. 3/4" MJIC x 3/4" MJIC Bulkhead w/ Nut Adapter: Tee 3/4" MORS x 3/4" MORS x 3/4" MORS Adapter: 90 Deg. 3/4" MORS x 3/4" MORS	

Manifold: A125174 (215TS2/220TS4)



Setting the Apron and Pushoff Valve

The manifold block containing the Pushoff sequence valve cartridge and Apron counterbalance 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 Pushoff is completely extended the operator then reverses the tractors hydraulic remote. The counterbalance valve will hold the Apron open until the Pushoff is fully retracted. The Apron counterbalance valve then opens and allows the Apron to close.

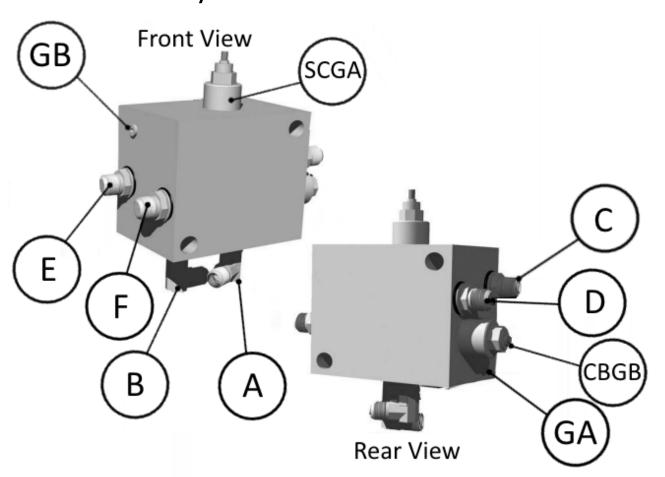
Setting the Valves:

Step 1: Pushoff Sequence Valve (On TOP of valve, port stamped 'SCGA')

Loosen the lock nut (9/16") on the sequence valve cartridge. Turn the setscrew (4mm) clockwise until the front Apron rises before the Pushoff begins to advance. With the scraper empty, turn the adjustment screw an additional 1/4 turn clockwise and tighten jam nut.

Step 2: Counterbalance Valve (On BACK SIDE of valve, port stamped 'CBGB')

Loosen 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.





Item	Description		
Α	Supply Line		
В	Pushoff Cylinder Rod End to Right Side Apron		
	Cylinder Base End - Supply		
С	Pushoff Cylinder, Base End		
D	Apron Cylinder, Right Side, Rod End		
E	Apron Cylinder, Left Side, Base End		
F	Apron Cylinder, Left Side, Rod End		
CBGB	Counterbalance Valve, adjustment		
SCGA	Sequence Valve, adjustment		
GA	Pressure Test Port		
GB	Pressure Test Port		

3	2
4	4 7

Item	Part Number	Description	
1	A125174	Valve: Manifold Block IV Body	
2	A125165-02	Valve: Sequence Cartridge for Ver. III & IV	
2b	A125162-02KIT	Seal Kit: A125162-02 Valve Cartridge	
3	AHA-00046	06 ORB Plug	
4	AHS-00153	O-Ring: -12 MORB Fitting	
5	AHA-00047	Adapter: 90 Deg. XL 3/4" MJIC x 1-1/16" MORB	
6	AHA-00044	Adapter: 90 Deg. 3/4" MJIC x 1-1/16" MORB	
7	A125162-01	Valve: Counterbalance Cartridge for Ver. III & IV	
7b	A125162-01KIT	Seal Kit: A125162-01 Valve Cartridge	

Decals



Safety Decals

Model Decals

Satety Decais			iviodei Decais		
	750464	Decal: High Pressure HIGH-PRESSURE HIGH-PRESSURE HIGH-PRESSURE FLUID HAZARD To prevent serious injury or death: Relieve pressure on system before repairing or a digulating or disconnecting. Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands. Keep all components in good repair.	ADS-00060	Decal: Model Badge	
	ADS-00011	Decal: Pinch Point To prevent serious injury or death from pinching: • Keep all persons and objects clear while any part of this machine is in motion. ADS-00011	ADS-00061	Decal: 25.75" x 5" (ASTIVANT)	
	ADS-00019	Decal: Grease Daily GREASE	ADS-00062	Decal: 37" x 7" (ASTILATION	
	ADS-00030	Decal: Turning Use Extreme Caution When Turning. While in Operation all People & Objects Should Be At Least 50 ft. (15.24m) Away.	ADS-00065	Decal: "Al" 11.5" x 7"	
	ADS-00041	Decal: Controls	ADS-00066	Decal: Gauge 4-0-4-0-4-4-0-1	
	ADS-00046	Decal: Do Lifting To prevent serious injury or death: NOT FOR LIFTING These loops are not rated to support the machine's weight. DO NOT use for lifting. ADS-00046	ADS-00083	Decal: Greaseless Inspect 1,000 hrs.	
	ADS-00047	Decal: Tran. Lock CAUTION: Remove or disengage safety transport locks before operation.			
	ADS-00069	Decal: Am. Built LAND FORMING EQUIPMENT			
		▲WARNING			

Decal: Laser Mast

ADS-00078

Operation & 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 superior quality grease and hydraulic oil (compatible with the power unit's hydraulic system) to insure the longest, 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 machines sides and floor.

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.

Operation & Maintenance





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 under warranty. Warranty only covers defects in material or workmanship, 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.
- 3. Keep hauls as short as possible.
- 4. Keep haul roads smooth.
- 5. If more than one unit is in the job, make sure the haul roads are one-way and the operators understand the direction.
- 6. Brief the operators as to what the job consists of so there are no misunderstandings.
- 7. Know the moisture content of the material to be moved.
- 8. Will water be needed for proper compaction? Will drainage be a problem?
- 9. How many units will be needed to efficiently complete the job?

Operation & Maintenance



Transport the scraper safely:

- 1. Always empty the scraper.
- 2. Clean all material from the exterior of the scraper.
- 3. Make sure all road rules are followed.
- 4. Use proper lighting and flagging.
- 5. Lower scraper bowl 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.

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 typical 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 leveling 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 significant injury. This signal word is limited to the most extreme situations typically for machine components which, for functional purposed, cannot be guarded.
- WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or significant 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 on job sites 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.

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.

Tire Inflation & Torque Chart



Tire Inflation: PSI @ 6mph				
	Max PSI			Max PSI
Model	Front Tire Size	@ 6mph	Rear Tire Size	@ 6mph
3250SS			11L-15 12Ply	50
50CS			16.5L-16.1 10Ply	36
950XL2	16.5L-16.1 10Ply	36	16.9-24 8Ply	35
140XL2	445/50R22.5	97	18.4-26 18ply	46
140TS2			20.5-25 16ply	41
140XL2-LGP	445/50R22.5	97	23.5-25 20Ply	44
140TS2-LGP			23.5-25 20Ply	44
155XL2	20.5-25 16Ply	41	29.5-25 28Ply	62
155TS2			29.5-25 28Ply	62
175XL2	20.5-25 16Ply	41	29.5-25 28Ply	62
175XL2 (Big Tire)	23.5-25 20Ply	44	29.5-25 28Ply	62
2012CS/2014CS			20.5-25 20Ply	65
215TS2			29.5-25 28Ply	62
220TS4			20.5-25 20Ply	65
2411E/2711E			23.5R25	62
3213E/3413E			26.5R25	62

On new machines, wheel hardware must be retorqued after the first 2 hours of operation. Check tires daily to ensure correct inflation levels with an accurate gauge having 6.9 kPa [(0.07 bar) 1 PSI] gradations.

Also check for:

- Tire Damage
- Loose or missing wheel studs, nuts, or caps
- Uneven wear
- Damaged Rims

Torque Foot/Pounds	Wheel Bolt/Stud Size
80 – 90	1/2"-20
85 – 100	5/8"-18
450 – 500	3/4"-16
450 – 500	M22 x 1.5
750 – 800	1-1/8"-16

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 best-practice. 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, making sure that other people in the area are not endangered.

Hub Service





Maintenance Schedule

- Daily visual inspection
- Clean and thoroughly inspection for leaks or damage every 100 hours of operation
- Pump 3oz of grease in each fitting every 200 hours of operation
- Clean, inspect, and repack every 1,500 hours of operation

The bearings within the hubs of the scraper are fully greased with an **EP Rated ISO 220 NLGI #2 Lithium Complex** blue grease at the factory. Ashland uses a special bearing grease packer to ensure the bearing is effectively and evenly lubricated. Generous amounts of additional grease are added on both sides of the bearing prior to install within the hub.

Lithium Complex Grease

Only high-performance, Lithium Complex grease is used to protect equipment in severe applications. The NLGI #2 ISO 220 EP Rated grease has excellent adhesion, structural stability, and is resistance to wet environments, making it suitable for use in a wide variety of machinery and components. This grease exhibits excellent wear, rust, and corrosion protection to help with mechanical efficiency, enhancing both bearing and equipment life. Overall, reducing maintenance costs, energy consumption, and providing protection at high and low temperatures.

Recommended Products (compatible to mix):

Mobilgrease XHP 222 Chevron Delo EP NLGI 2 Shell Gadus S3 V220C 2

Reinstalling Hubs

Before installing or re-installing the hub, follow this procedure to ensure spindle machined surfaces are clean and undamaged.

- Remove old lubricant and thoroughly clean spindle.
- Inspect machined spindle seal surface for nicks, scratches, burrs or marks. If needed, use crocus cloth or emery cloth to repair damaged areas.
- Clean spindle threads thoroughly with a wire brush to avoid false bearing adjustments and to avoid introduction of contaminates into the hub.
- Thoroughly clean spindle machined surfaces of rust, dirt, grease, or other contaminants that could damage the hub seal and cause it to leak.

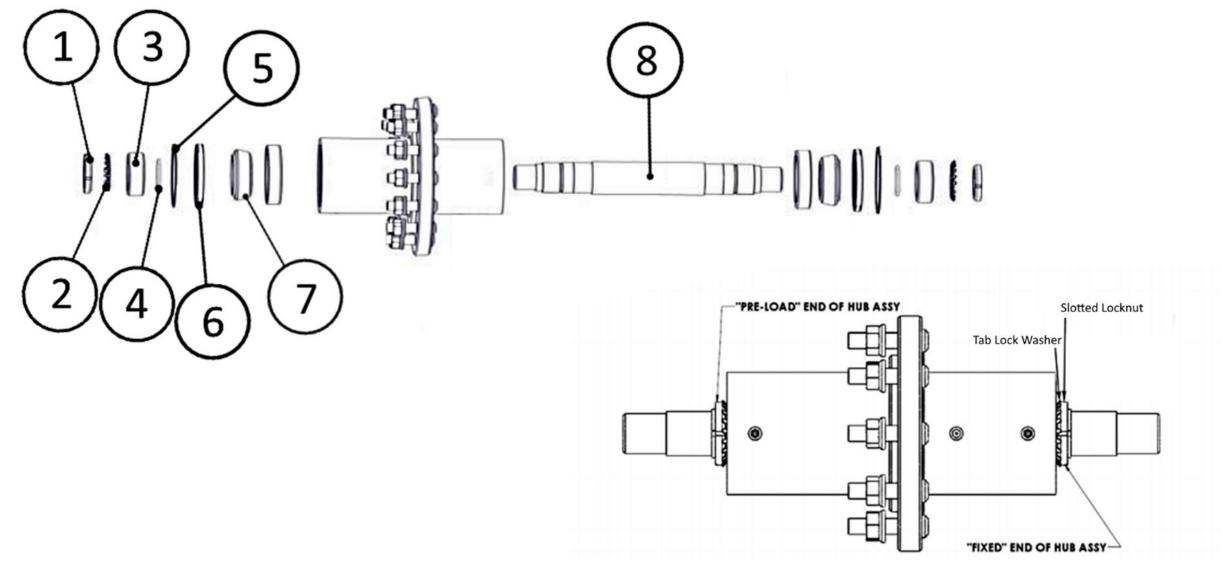
Caution

Too much grease volume (over-greasing) in a bearing cavity will cause the rotating bearing elements to begin churning the grease, pushing it out of the way, resulting an increase of bearing component temperatures. This leads to rapid oxidation (chemical degradation) of the grease as well as an accelerated rate of oil bleed, which is a separation of the oil from the thickener. The heat that has been generated over time along with the oil bleed eventually will cook the grease thickener into a hard, crusty build-up that can impair proper lubrication and even block new grease from reaching the core of the bearing. This can result in accelerated wear of the rolling elements and then component failure.

Pass-Thru Hub Assembly



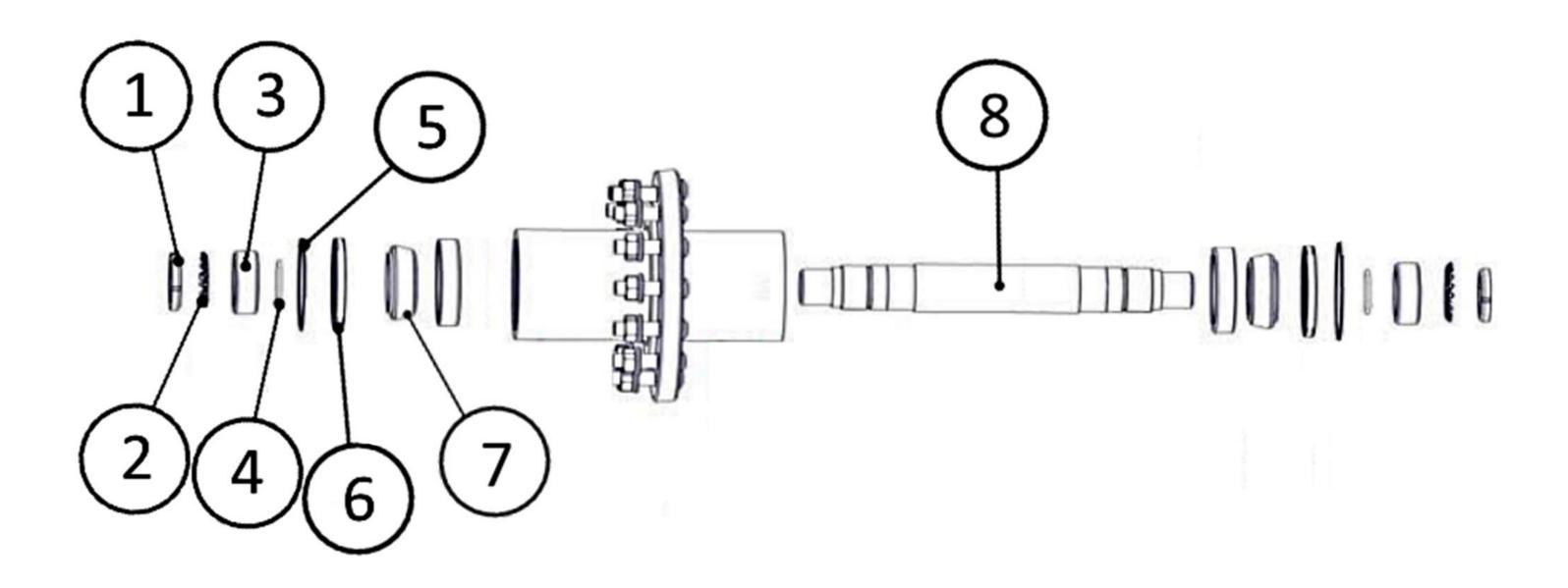
- 1. Press bearing cups into hub (if replaced) & pre-lubricate bearing cones (item 7, x2).
- 2. Install (1) bearing cones onto axle (item 8).
- 3. Install O-ring (item 4) onto end of axle, in the O-ring groove.
- 4. Install (1) bearing spacer (item 3) against lubricated bearing on top of O-ring.
- 5. Install (1) tab lock washer (item 2) against bearing spacer with internal tab positioned in keyway of threaded axle end; external tabs facing out.
- 6. Install (1) slotted locknut. Bend appropriate tab lock washer spline into a slot on the slotted locknut.
 - **NOTE: there must be the same number of exposed threads on each end of the axle when installation is complete.**
- 7. Install axle assembly into hub from "fixed" end.
- 8. Repeat steps 2 5 for parts on "pre-load" end of hub.
- 9. Final install of slotted locknut and torque "pre-load" end of hub as follows:
 - Initially, torque slotted locknut to 110 120 ft-lb while rotating axle.
 - Back off slotted locknut one full turn.
 - Rotate axle at least 5 revolutions.
 - Torque slotted locknut to 60 ft-lb while rotating axle.
 - Back off slotted locknut 1/4 1/2 turn.
 - Finally, hand-tighten locknut until it contacts spacer, tighten addition 15°.
- 10. Bend appropriate tab lock washer spline into slotted locknut slot.
- 11. Lubricate seals (item 6, x2) and press into hub & install retainer rings (item 5, x2).
- 12. Add an additional 40oz of grease to each grease zerk fitting (1 per side).



Pass-Thru Hub Disassembly



- 1. Disengage tab lock washer spline on one side of axle lock washer (item 2).
- 2. Remove slotted locknut (item 1) & tab lock washer (item 2) from axle (item 8).
- 3. Remove bearing spacer (Item 3).
- 4. Remove seal retaining rings from both sides (item 5, x2).
- 5. Remove hub seals from both sides (item 6, x2).
- 6. Remove axle assembly from the other end of hub.
- 7. Repeat steps 1 3 on opposite side of axle assembly.
- 8. Remove O-rings from axle (item 4, x2)
- 9. Remove bearing cones (item 7, x2).
- 10. Remove bearing cups from inside of hub if necessary.



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.

Grease zerk will not take grease:

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

Rollers do not roll:

- 1. The rollers need lubrication.
 - Check zerk hole and grease, if applicable.
 - Remove pin, clean, inspect, and replace if necessary.
- 2. The roller bushing is worn out.
 - Remove roller assembly and replace bushings.

Cylinder will not hold in present position, i.e. the cylinder creeps:

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

Machine cuts unevenly:

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



The Purpose of Warranty

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 one year from the date of delivery of the new Ashland Industries product to the original purchaser, or the date the product is first put into service via a rental agreement or other means, whichever occurs first.

Dealers Responsibilities

The following responsibilities are to be performed when the dealer delivers a product to the purchaser or otherwise places it into warranty service:

- Complete the Warranty Registration Form and forward it to Ashland Industries within 30 days of the sale, rental or other use of the product. Warranty reimbursement is contingent upon product registration.
- Review the warranty statement and operator's manual with purchaser to assure understanding of purchaser's responsibilities as related to warranty, service, and the proper and safe operation of the product. Purchasers/Renters should be advised to have failed parts repaired or replaced immediately upon failure, as continued use will result in additional damage, excessive wear, and may result in personal injury.
- Contact Ashland Industries prior to beginning repair or replacement of failed parts to make certain that the cost of repairs are consistent with the value of the product being sold.
- Warranty requests for units in dealer's inventory may be submitted to Ashland Industries when defects are noted in products prior to the retail sale or rental of that unit.
- Provide warranty and service repairs as directed by Ashland Industries' "Service Repairs Bulletins" or other instructions.
- All warranty work must be completed within 30 days of failure. Notify Ashland Industries' warranty department if repairs will require more than 30 days after failure for an extension. No claim will be accepted for warranties that exceed this 30 day period.
- No warranty will be allowed on units delivered to the retail customer prior to the full payment of that unit to the manufacturer by the dealer.
- If diagnostic time is required, contact Ashland Industries prior to beginning the warranty repair for approval. Ashland Industries must approve travel time reimbursement prior to beginning the warranty repair.

Ashland Industries Responsibilities

- Reimbursement for parts used in warranty repair will be credited only when the parts are purchased from Ashland Industries Inc. Parts will be credited at dealer's net cost. No warranty will be allowed on parts that are past due.
- Dealer should use parts from their parts inventory first. In the event that parts must be shipped from Ashland Industries Inc., freight will be paid by Ashland Industries and will be shipped by the most economical means to arrive in the shortest possible time. Air, Next Day Air, Priority and other special shipment methods requested by the dealer will be at the customer's expense.



Ashland Industries Responsibilities (Cont'd)

- Warranty Labor Reimbursement for labor expense to the dealer is made by payment of the established hourly shop rate.
- Repair times will be reviewed by Ashland Industries and may be adjusted to average repair time
 required by other dealers to make similar repairs. Labor is not paid on the warranty associated
 with repair parts purchased by the retail customer that are used on a product that is not currently
 in warranty time frame.
- Reimbursements for repairs made by an outside source (not dealer personnel) will be made for those services deemed necessary for the resolution of the warranty by Ashland Industries' warranty department. Outside repair invoices must have prior approval from Ashland Industries' service department and must be attached to the warranty claim after approval.

Other Warranty Provisions

The following guidelines are to be followed when performing warranty repairs:

- In all cases, the most economical repair should be performed unless otherwise directed. Credit will not be allowed for assemblies or groups if it is practical to make the repair with individual parts. In some cases, the assembly or group price may be less than the total of the parts and labor required to complete the repair. In those cases, an assembly or group may be used.
- Only those parts provided by Ashland Industries are covered under Warranty. The use of parts from other sources will not be eligible for warranty consideration.
- All parts removed during warranty repair should be held for a period of 90 days after the
 warranty claim has been submitted to Ashland Industries. These parts can be discarded if
 disposition or return request has not been made during this period. Parts that are requested
 must be returned within 30 days of claim disposition. These parts will be discarded after the 30
 day period.
- Ashland Industries reserves the right to deny or reverse any and all warranty claims for parts, labor, or miscellaneous charges when errors are found, warranty provisions are abused, or fraudulent claims are submitted.

Warranty Reimbursement is Not Possible

- When failure falls under the "limitations" as identified in Ashland's Limited Warranty Statement.
- When Ashland Industries has requested the return of certain parts, assemblies, or information and has not received the material with 30 days of date posted on return request.
- On claims due to damage or shortage that are obviously the responsibility of dealer or the delivering carrier.
- On the entire claim when warranty policy and provisions are not followed.

All dealers will warranty their technician's work to the purchaser and will indemnify Ashland Industries, Inc. from such claims.



Service Bulletins

Service Bulletins will be issued when necessary to alert dealers of special repairs. Each bulletin will give detailed directions and procedures to complete the service.

Procedures For Completion Of Warranty Form

Complete the warranty form available at www.ashlandind.com or in your dealer's yellow Ashland Sales Book. Return this form to Ashland Industries within 30 days of failure.

Use of Photographs

Pictures of the failure are recommended but not required. Photos should be attached to dealer's claim when their inclusion will help identify the condition of the part being repaired or replaced, and thus assisting in approval of the claim. In many cases, the use of photos may eliminate the need to return parts for evaluation. Photos will not be returned unless specifically requested. Digital photos are preferred and can be email to warranty@ashlandind.com.

Delayed Warranty Repairs

Warranty repairs should be scheduled and performed as soon as possible after notifying your dealer and Ashland Industries. There may be circumstances that require the use of the product for a short period of time by the retail customer, or the availability of repair parts may require the work to extend past a 30 day period. In these cases, the dealer must notify Ashland Industries in writing of the extenuating circumstance and advise that the continued use of the product will not enlarge the warranty claim. These claims will then be processed as if the product is still within the warranty period.

Denied Claim

Dealers will be notified of a denied claim and notification will state the reason for denial. A dealer has the right to appeal this claim and must do so within 30 days of notification of denial. If there has been no appeal within the 30 day period, the claim will be considered closed.

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 one year from the date of delivery of the new Ashland Industries, Inc. product to the original 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 scrapers are warranted for three consecutive months from the date of delivery of the new Ashland Industries, Inc. 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.



Limited Warranty Statement (Cont'd)

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, sockets, 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. 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.

Owner Registration

Be sure to complete the Owner Registration form that you received with your machine and return it to Ashland Industries within 30 days of the sale, rental, or other use of your product. Warranty reimbursement is contingent upon product registration. If your product is not registered, it is NOT covered under warranty.