

Equipment Since 1953 I-180-TS PARTS MANUAL

Version 032404



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CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION

IMPORTANT



Please locate red Transport Links and remove prior to operation. Retract Lift Cylinder Circuit, Remove Safety Snap Pin, Remove link and replace into storage position as shown in figure 2. **Reinstall Safety** Snap Pins.







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.

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.
- 5. Maintain tire pressure at 45 to 50 psi.



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

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

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

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

GENERAL SAFETY GUIDELINES

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

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

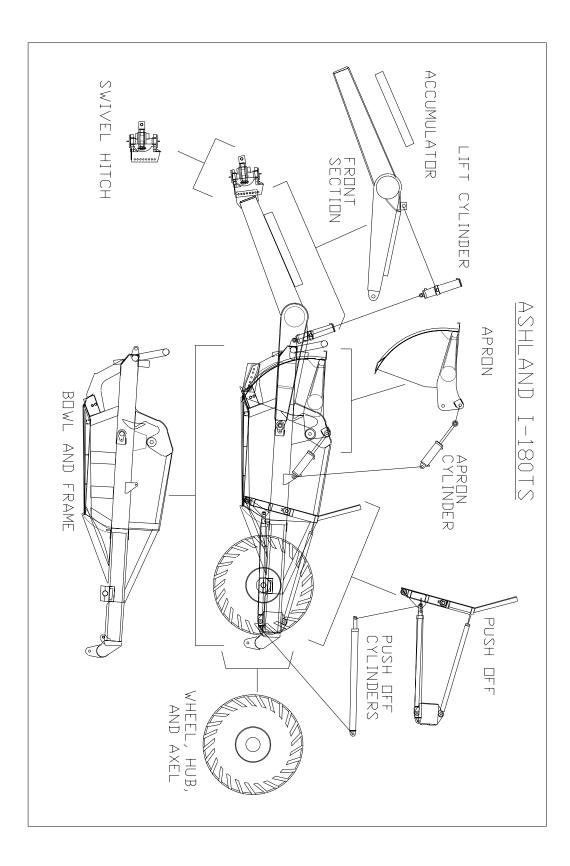
Do not attempt to operate this equipment under the influence of drugs or alcohol.

Review the safety instructions with all users annually.

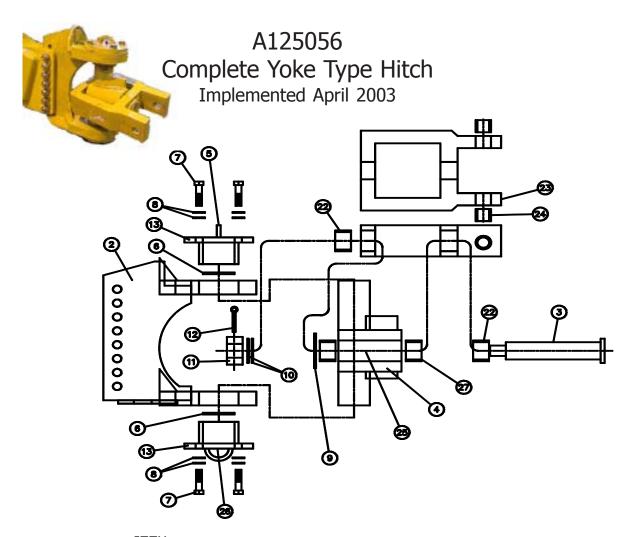
This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. Do not allow persons to operate or assemble this unit until they have read this manual and have developed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

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

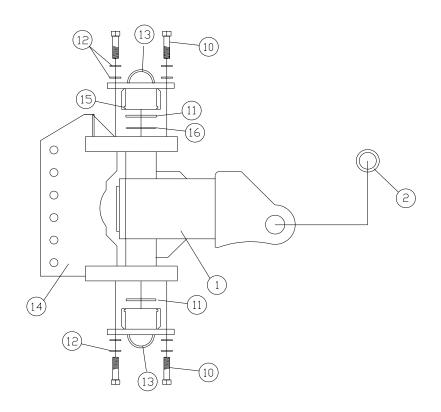
Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**



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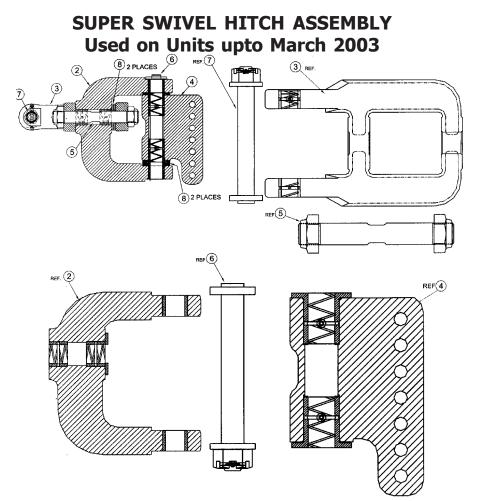
ITEM	PART ND.	DESCRIPTION
2	A125056-02	UTIL HITCH BRKT
з	A125056-03	MDU HITCH PIN
4	A125056-04	MDU HITCH SWIVEL
5	A125056-05	19C 18D HITCH CAP
6	A125056-06	19C 18D WASHER SVIVEL HITCH
7	A125056-07	BOLT 3/4 X 3 HEX GR 8
8	A125056-08	WASHER: FLAT - 3/4 HARD F-436
9	A125056-09	Washer: FKAT-2-1/2 Hard F-436
10	A125056-10	WASHER FLAT=1-1/2 HARD F436
11	AFN-00014	NUT: SLOTTED, 1-1/2" NC
12	A125056-12	PIN: COTTER 5/16 X 2-1/2
13	A125056-13	19C 18D SWIVEL HITCH CAP SEAL
22	A125056-22	BUSHING 275250187
23	A125056-23	REYNOLDS UTILITY HITCH YOKE
24	A125056-24	BUSHING: 175150150
25	A125056-25	ZERK – STRAIGHT
26	A125056-26	ZERK - 90*
27	A125056-27	BUSHING: 300251200



SUPER CAPACITY SWIVEL HITCH ASSEMBLY A125057

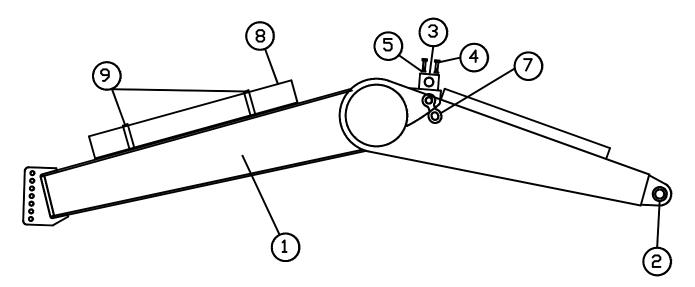
COMPLETE HITCH: H.D. ICON 360 DEG. SWIVEL

<u>ITEM</u>	<u>QTY</u>	PART NUMBER	DESCRIPTION
1	1	A125057-01	Swivel Hitch Yoke,
2	2	A125057-02 A125057-02JD	Bushing, 1-1/2" ID, Reynolds Spec. Bushing, 60 mm ID, John Deere Spec.
10	8	AFB-00064	HHCS: 3/4 NC X 3" GR. 8 ZINC
11	2	A125056-06	WASHER: FOR ICON HITCH CAP
12	16	AFW-00007	WASHER: FLAT 3/4" ZINC USS
13	2	A125057-13	HITCH CAP, ICON
14	1	A125057-14	SWIVEL HITCH BRACKET, 7 HOLE
15	2	A125057-15	SEAL, HITCH CAP
16	1	A125057-16	SHIM, HITCH CAP



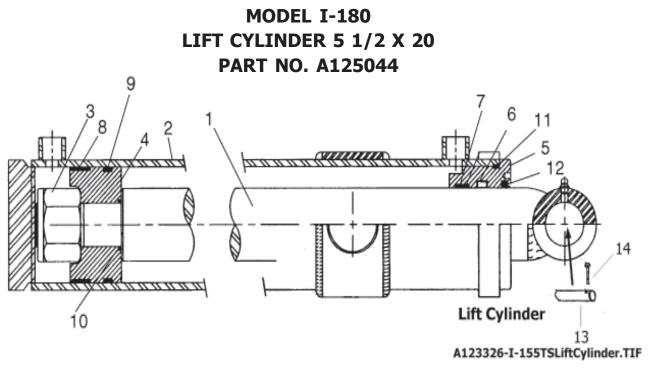
<u>KEY NO.</u>	PART NO.	DESCRIPTION
<u>1.</u>	A1063527	Super Yoke hitch, Includes 2 & 3, $(w/o 4, 6, 7 \& 1 ea.$
1.	/100552/	of 8) (Required 1)
2.	A1062280	Rear Super Yoke, Assembly (1 required)
	A1063177	Bushing (2 required)
	A1063144	Bushing, Spiral (2 required)
	14505	Fitting, Grease (2 required)
3.	A1063281	Front Super Yoke, Assembly (1 required)
5.	A1063145	Busing, Spiral (2 required)
	14505	Fitting, Grease (2 required)
4.	A1063688	Pivot Pin Housing, Assembly (1 required)
	A1063143	Bushing, Spiral (2 required)
	14505	Fitting, Grease (2 required)
5.	A1063283	Pin, Horizontal Assembly with Nuts (1 required)
5.	A1063212	Pin only (1 required)
	A1044362	Nut, Lock Nylon, 2-12 UNF (2 required)
6.	A1063284	Pin, Vertical Assembly with nut, wash, c.pin (1 required)
0.	A1063214	Pin only (1 required)
	A1063259	Washer (1 required)
	ARF03024-00260	Nut, Slotted. Hex 2.00 NC G5 (1 required)
	ARF06020-00083	Pin, Cotter .375" x 4.00" (1 required)
7.	ARI 00020-00085 AB581	Hitch Pin, Assembly (1 required)
/.	AB580	Pin Weldment (1 required)
	AB195	Washer, 3.00"OD x 1.56" (1 required)
	AFN-00014	Nut, Slotted, 1.5" NC G5 (1 required)
	ARF06020-00060	
8.		Pin, Cotter Washer Thrust (4 required)
0.	A1063146	Washer, Thrust (4 required) 9
		J

I-180 FRONT SECTION



I-180TS Front Section Frame A123320

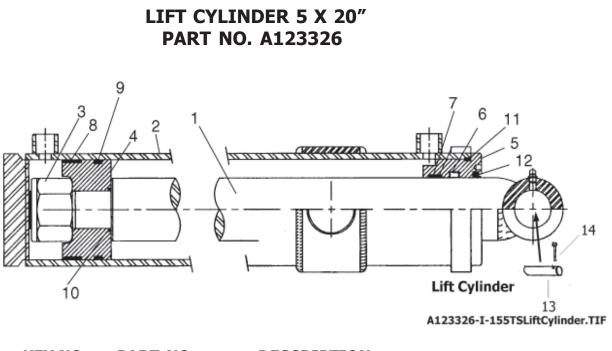
<u>ITEM</u>	<u>QTY</u>	PART NUMBER	DESCRIPTION
1	1	A123320	Front Section
2	2	A123320-8	Flanged bolt bushing
3	4	A123320-3	Trunion mount block
4	8	AFB-00064	Bolt, 3/4" NC x 3" long, gr. 8
5	8	AFW-00002	3/4" lock washer
6	2	A125006	Link Pin
7	2	A123320-20	Travel Lock
8	1	A125005	Accumulator
9	2	A125009	Mounting brackets



<u>KEY NO.</u>	PART NO.	DESCRIPTION
1.	A123326-1	Piston Rod: 2-1/2"
2.	A125044-02	Barrel Weldment, 5-1/2"
3.	AFN-00018	Nut: Lock 1-1/2-12
4.	A125044-04	Piston, 5-1/2"
5.	A125044-05	Gland, 5-1/2"
6.	A123324-6	Rod Seal
7.	A123324-5	Wear Band ID for Gland
8.	A125044-10	Wear Ring, 5-1/2"
9.	A125044-15	Piston Seal, 5-1/2"
10.	A123324-10	O-Ring, ID of Piston
11.	A125044-20	O-Ring, OD of Gland
12.	A123324-7	Rod Wiper
	A125044-40	Seal Kit (Items 6-12)

***SonDealed 2Note:** delistused a 5" x 20" lift cylinders in lieu of this cylinder. To ensure correct parts shipment carefully examine the cylinder for size.

	<u>5-1/2" x 20"</u>	<u>5" x 20" (p.n. A123326)</u>
Barrel Circumference	19-1/4"	17-1/2"
Barrel Diameter	6"	5-1/2"



<u>KEY NO.</u>	<u>PART NO.</u>	DESCRIPTION
1.	A123326-1	Piston Rod: 2-1/2"
2.	A123326-2	Barrel Weldment
3.	AFN-00018	Nut: Lock 1-1/2-12
4.	A123324-4	Piston
5.	A123324-3	Gland
6.	A123324-6	Rod Seal
7.	A123324-5	Wear Band
8.	A123324-8	Wear Ring
9.	A123324-9	Piston Seal
10.	A123324-10	O-Ring
11.	A123324-11	O-Ring
12.	A123324-7	Rod Wiper
	AHS-00140	Seal Kit (Items 6-12)
13.	A123335	Pin, 2" x 10-1/2" lg.
14.	AFP-00001	Cotter Pin, 1-4" x 3"

*** Dealer Note ***

Some 2002 models used a 5" x 20" lift cylinders in lieu of this cylinder. To ensure correct parts shipment carefully examine the cylinder for size.

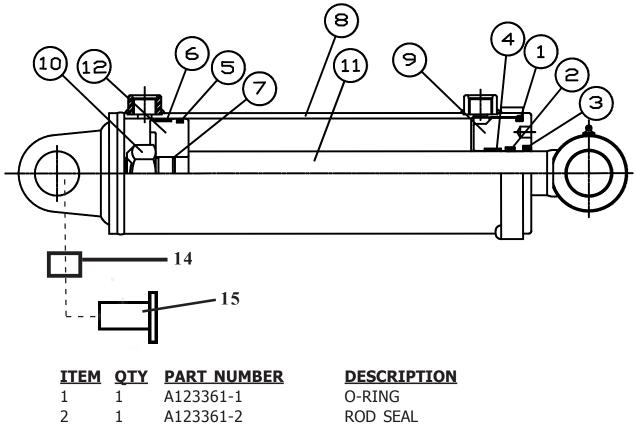
	<u>5-1/2" x 20"</u>	<u>5" x 20" (p.n. A123326)</u>
Barrel Circumference	19-1/4"	17-1/2"
Barrel Diameter	6"	5-1/2"

A123322 Apron Model I-180-TS APRON ASSEMBLY 3 2 5 (4)**_**. ſ f@ ₽₽ 5 (2)(4) (6 (1)

<u>ITEM</u>	<u>QTY</u>	PART NUMBER	DESCRIPTION
1	1	A123322	Apron Model I-180-TS
2	4	A123299-10	Bushing, 2- 2/8" O.D. x 2" I.D. x 1-1/2" long with grease groove
3	2	A123322-14	Pin: 2" x 3-3/4" long, For Apron cyl rod end
4	4	A123358	Flanged bolt Bushing
5	4	AFB-00079	Bolt: 5/8" x 1-1/2"
6	2	A123322-08	Apron Pivot Pin w/grease zerk



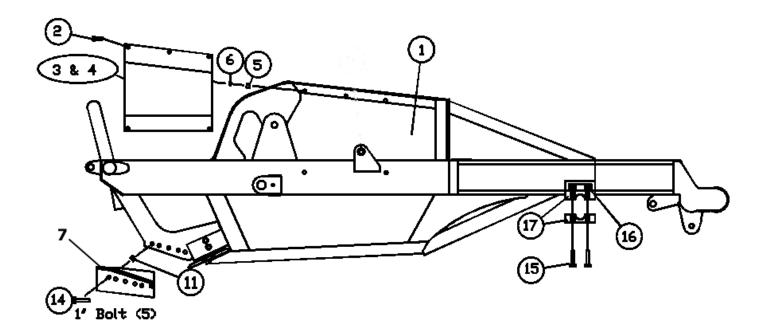
PART ND. A123361 5" BORE X 13" STROKE (2) REQ'D

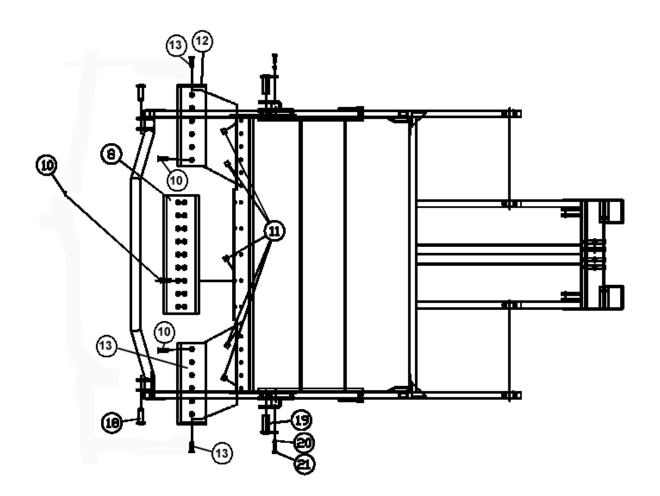


~		4400064 0
2	1	A123361-2
3	1	A123361-3
4	1	A123361-4
5	1	A123361-5
6	1	A123361-6
7	1	A123361-7
8	1	A123361-8
9	1	A123361-9
10	1	A123361-10
11	1	A123361-11
12	1	A123361-12
13	1	A123361-13
14	2	A125018
15	2	A123322-09

O-RING ROD SEAL WIPER SEAL WEAR RING PISTON SEAL WEAR RING O-RING BARREL HEAD LOCK NUT ROD PISTON SEAL KIT, INCLUDES ITEMS 1 - 7 Bushing: 2-3/8" O.D. x 2" I.D. x 1-1/4 long Pin: Apron cylinder barrel end

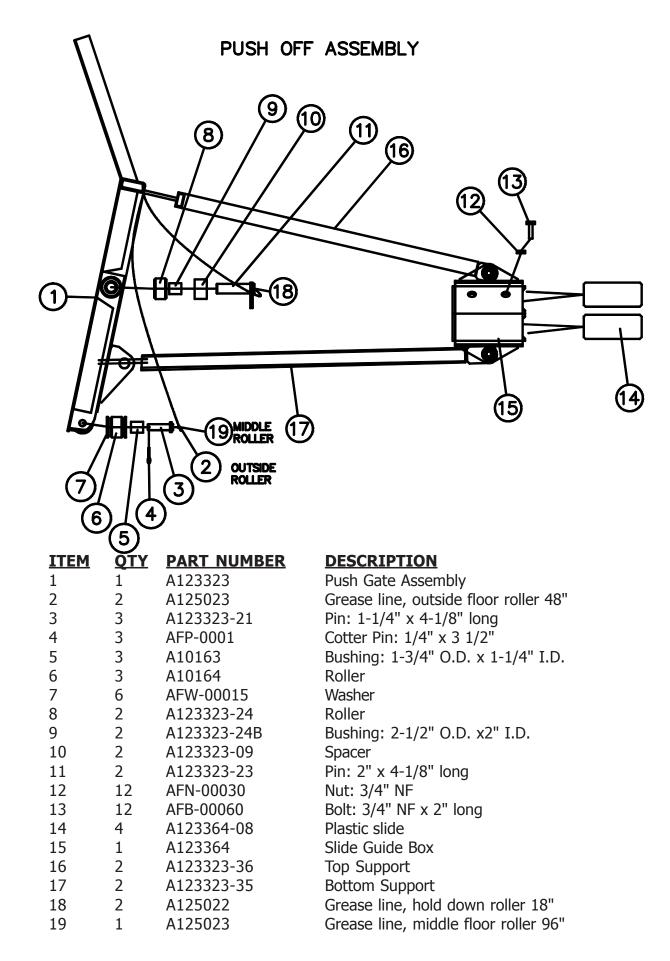
I-180 BOWL AND FRAME ASSEMBLY

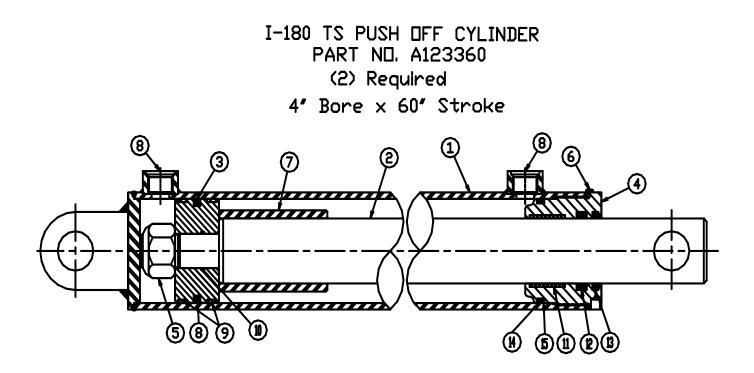




I-180 BOWL AND FRAME PARTS LIST

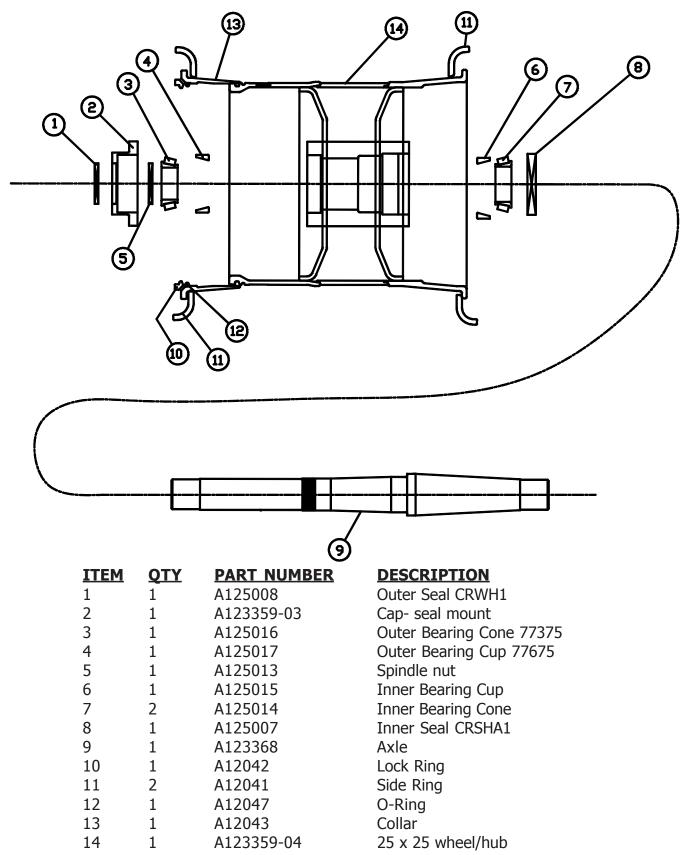
<u>ITEM</u>	<u>QTY</u>	PART NUMBER	DESCRIPTION
1 2 3 4 5 6 7 <i>Fach h</i>	10 2	A123355	Bowl and frame assembly Bolt: 3/8" NC x 1" long Left side dirt shield Right side dirt shield Nut: 3/8" nc Washer: 3/8" flat Corner cutting blade, "L" shape, reversible, 13" x 36-1/2" L & R w bolts, (2) 1" x 2-1/2" plow bolts, (8) 1" NC nuts
Luch		quires: (0) 1 x 2 5/1 pio	
8	1 1 1	A123356SER (stardard) A123356SER1 A123356 Blade requires: (9) 1" x 2	Center blade, Serrated Both sides, Reversible Center blade, 1-side Serrated & 1-side Straight Center cutting blade, reversible, Straight, Blade Diamensions. 16" x 54-1/4" 2-3/4" plow bolts, (9) 1" NC nuts
10 11 12	21 25 2	PB1P-NC-100-0275 AFN-00012 A123357 Each blade requires: (5)	Plow bolt: 1" NC x 2-3/4" long Nut: 1" NC Bank shaver/router bit, reversible, L & R 1" NC x 3" long bolts, (5) 1" NC nuts
13 14 15 16 17 18 19 20 21	4 10 4 2 2 2 2 2	PB1P-NC-100-250 AFB-0018 AFB-00067 AFN-00032 A123321-65 A123335 A123321-09 A123358 AFB-00079	Plow bolt: 1" NC x 2-1/2" long Bolt: 1" NC x 3" long (5 per router blade) Bolt: 1-1/4" NF x 7-1/2" long Nut: 1-1/4" NF Axle mount Lift cylinder pin Main frame pin Flanged bolt bushing Bolt: 5/8" x 1 1/2" long



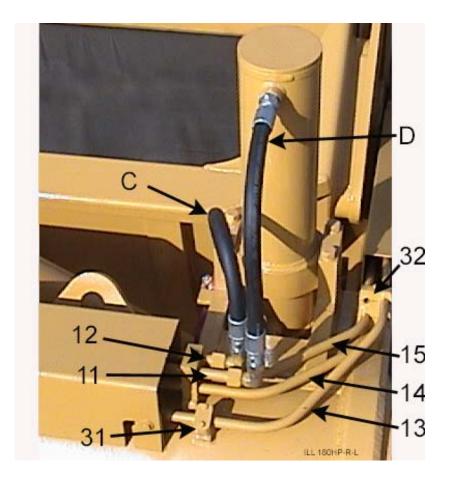


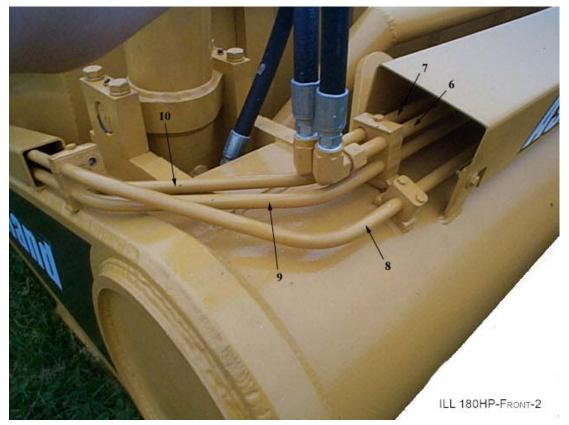
ITEM	<u>QTY</u>	PART NUMBER	DESCRIPTION
1	1	A123360-01	BARREL
2	1	A123360-02	ROD
3	1	A123360-03	PISTON
4	1	A123360-04	GLAND
5	1	A123360-05	LOCK NUT
6	1	A123360-06	SCREW
7	1	A123360-07	SPACER SLEEVE
8	1	A123360-08	PISTON SEAL
9	1	A123360-09	WEAR RING
10	1	A123360-10	O-RING
11	1	A123360-11	WEAR RING
12	1	A123360-12	ROD SEAL
13	1	A123360-13	WIPER
14	1	A123360-14	O-RING
15	1	A123360-15	BACK-UP RING
16	1	A123360-16	SEAL KIT, INCLUDES ITEMS 8 - 15

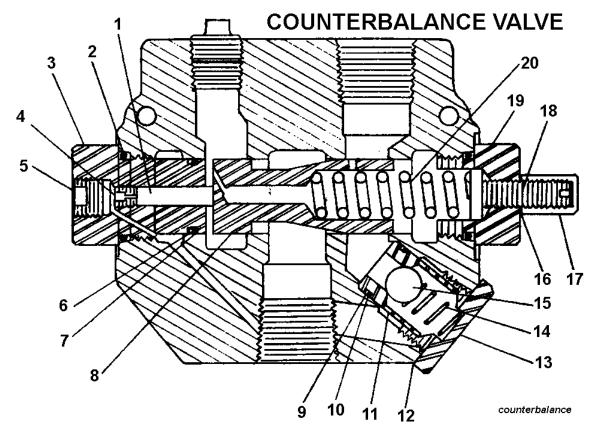
WHEEL ASSEMBLY



Front Section I-180TS

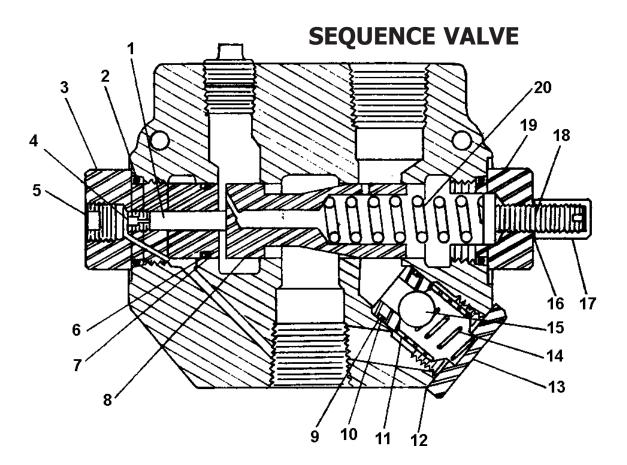






PART #A101H47

KEY NO. 1 2 3 4 5 6 7 *8 9	A101H49 A101H50 A101H51 A101H52 A101H53 A101H54 A101H55 A101H70 A101H57	DESCRIPTION Piston O-ring External pilot plug Orifice Plug O-ring Backup washer Metering spool Backup washer
10 11	A101H58 A101H59	O-ring Check seat
12	A101H60	Aluminum washer
13	A101H61	Check plug
14	A101H62	Check spring
15	A101H63	Check ball
16	A101H64	Aluminum washer
17	A101H65	Acorn nut
18	A101H66	Adjusting screw
19	A101H69	Adjusting plug - RD1075 SM
20	A101H68	Metering spring
*	A101H71	Valve body
* NOT S	OLD SEPARATELY	



PART #A101H47

KEY NO.	<u>PART NO.</u>	DESCRIPTION
1	A101H49	Piston
2	A101H50	O-ring
3	A101H51	External pilot plug
4	A101H52	Orifice
5	A101H53	Plug
6	A101H54	O-ring
7	A101H55	Backup washer
*8	A101H70	Metering spool
9	A101H57	Backup washer
10	A101H58	O-ring
11	A101H59	Check seat
12	A101H60	Aluminum washer
13	A101H61	Check plug
14	A101H62	Check spring
15	A101H63	Check ball
16	A101H64	Aluminum washer
17	A101H65	Acorn nut
18	A101H66	Adjusting screw
19	A101H69	Adjusting plug - RD1075 SM
20	A101H68	Metering spring
*	A101H71	Valve body
* NOT S	OLD SEPARATELY	

SETTING THE SEQUENCE VALVE AND COUNTERBALANCE VALVE RELATIONSHIP

The dual valve system consist of a sequence valve (rear valve, closest to tire of scraper) and counterbalance valve (forward valve, closest to the tractor) 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 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 counterbalance valve then opens and allows the apron to close.

When setting the Valves, run the tractor at normal loading RPM's.

Important::

When setting the values it is important to not have the either of the values set to tight. This will effect the speed inwhich the scraper functions. When setting the values, always set the sequence value first then the counterbalance value.

When Do I Adjust valves:

Smyptoms: *Pushoff moves forward while the apron is first opening.*

Solution: This means the sequence valve is not set high enough pressure. What is happening the psi needed to open the front apron is more than the psi to move the pushoff forward. The smyptoms will change if the scraper is loaded on unloaded.

Smyptoms: The Apron drifts shut without activitng the tractors remotes.

Solution: This mean both valves are not set up tight enough. Oil is being released from the counterbalance valve first then also released by the sequence valve. The lost oil from the apron's cylinder is dumped into the base end of the pushoff cylinder. When this happens you should see the pushoff creep forward slightly.

Smyptoms: The Apron closes while the pushoff is being retracted back to a loading possition.

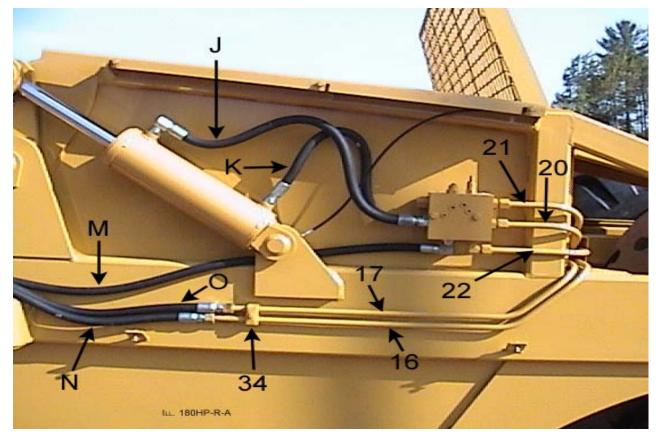
Solution: The Counterbalance valve is releasing the oil from the aprons circuit. The valve needs to be set tigher (tread allen-set screw inward) to hold the aprons oil. Spend some extra time on this adjustment whereas you don't want the valve to be too tight. While the pushoff is retracting, keep adjusting the counterbalance valve inward untill the apron stops drifting shut. Set jam nut, replace cap.

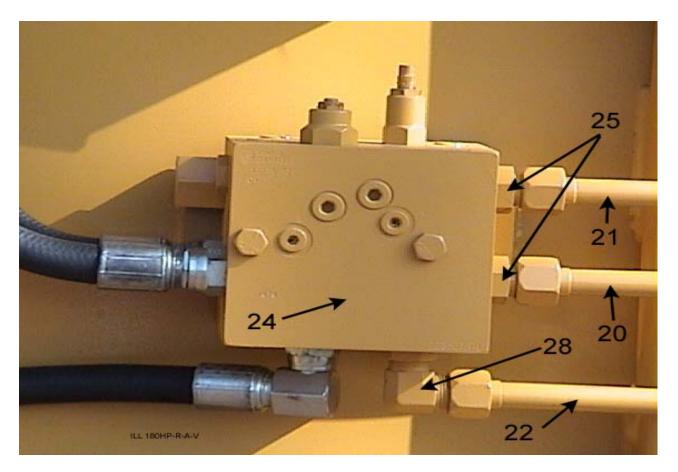
STEP 1 SEQUENCE VALVE

Loosen the lock nut (9/16"") on the sequence valve cartridge. Turn the setscrew (1/4") **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.

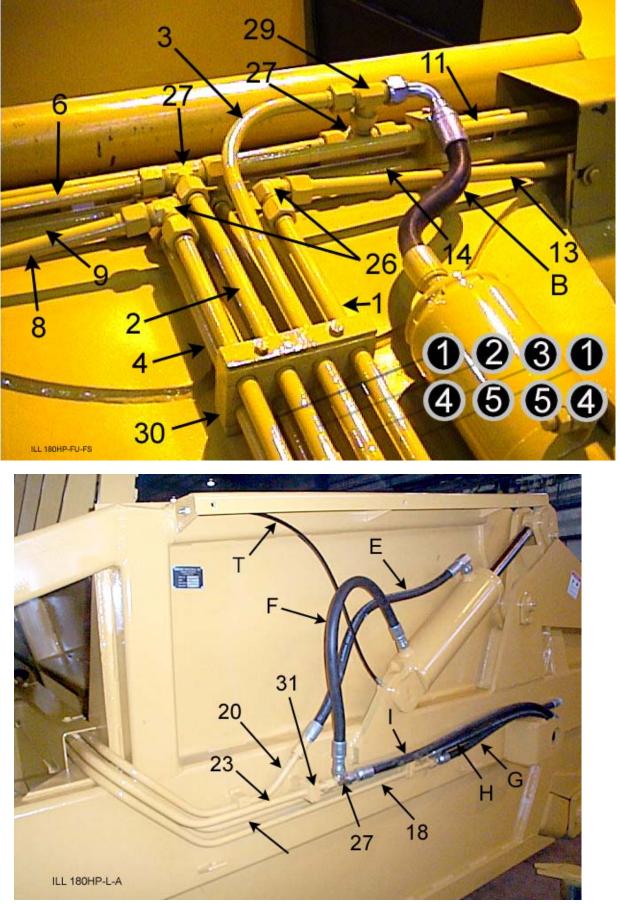
STEP 2 COUNTERBALANCE VALVE

Loosen the lock nut (9/16") on the counterbalance valve cartridge. Turn the setscrew (4 mm) 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. Hydraulic Plumbing I-180TS s.n. 20750 +

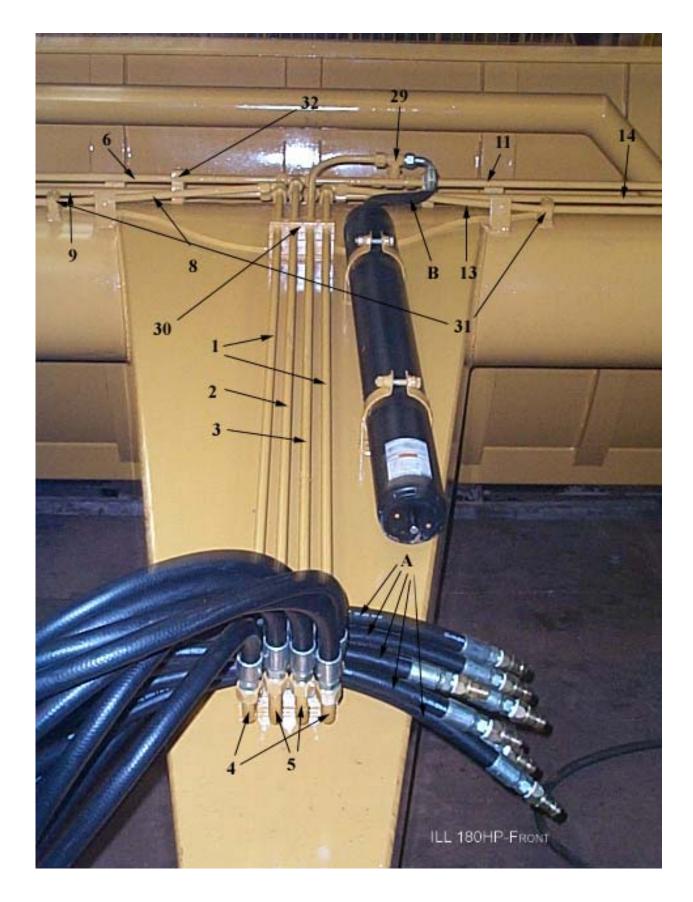




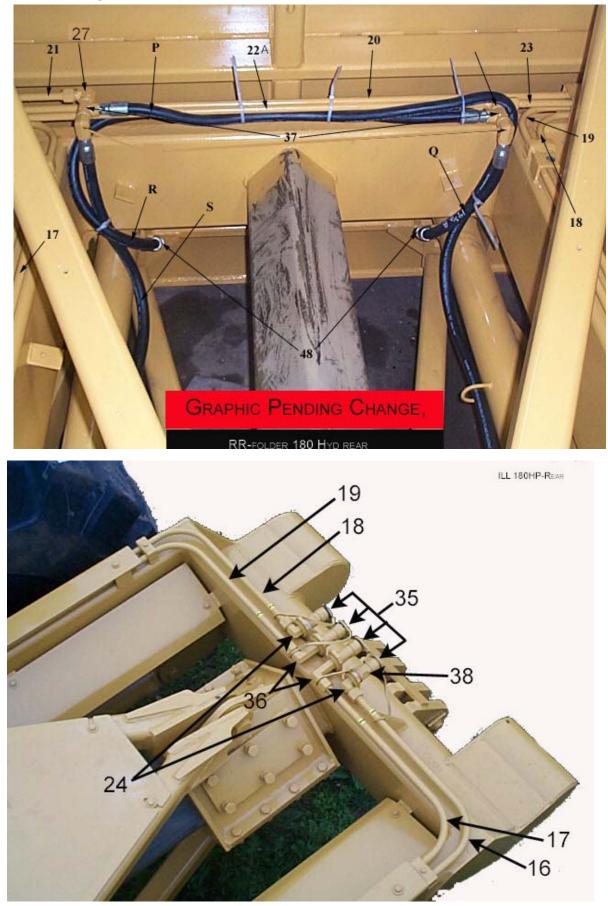
Hydraulic Plumbing I-180TS Front Section Center



Hydraulic Plumbing I-180TS Front Section



Hydraulic Plumbing I-180TS Behind Bowl Top



PARTS LIST - HYDRAULIC PLUMBING - MODEL I-180TS

<u>Key No.</u>	Part No.	Description
1	A125037	Tubing, Front, Top, Far Right and Far Left
2	A125036	Tubing, Front, Top, 2nd From Right
3	A125033	Tubing, Front, Top, 2nd From Left
4	A125035	Tubing, Front, Bottom, Outside
5	A125034	Tubing, Front, Bottom, Inside
6	A125041	Tubing, Top, Right Side
7	A125039	Tubing, Top, Right Side
8	A125031-1	Tubing, Top, Right Arm
9	A125031-3	Tubing, Bottom, Outer, Right Arm
10	A125031-5	Tubing, Bottom, Inner, Right Arm
11	A125040	Tubing, Top, Left Side
12	A125043	Tubing, Top, Left Side
13	A125031-2	Tubing, Top, Left Arm
14	A125031-4	Tubing, Bottom, Outer, Left Arm
15	A125031-6	Tubing, Bottom, Inner, Left Arm
16	A125029-1	Tubing, Back, Outer Right
17	A125028-1	Tubing, Back, Inner Left
18	A125029-2	Tubing, Back, Outer Left
19	A125028-2	Tubing, Back, Inner Right
20	A125066	Tubing, Wraps Around Back of Bowl
21	A125042	Tubing, Top, Around Left Side of Bowl
22	A125067	Tubing, Bottom, Around Left Side of Bowl
22A	A125068	Tubing, Middle Back
23	A125038	Tubing, Around Right Side of Bowl
24	A125055	Manifold Block, s.n. 20750 +
25	AHA-00041	ADAPTER: M ORB
26	AHA-00019	ADAPTER: 90 DEG. 3/4 M JIC X 3/4 M JIC
27	AHA-00022	ADAPTER: T 3/4 M JIC X 3/4 M JIC X 3/4 M JIC
28	AHA-00044	ADAPTER: 90 DEG. MORB M JIC
29	6600-12	ADAPTER: T 3/4 M JIC X 3/4 F JIC X 3/4 M JIC
30	AHL-00004	CLAMP, HYD TUBING: 4 TUBE
31	AHL-00001	CLAMP, HYD TUBING: 1 TUBE
32	AHL-00022	CLAMP, HYD TUBING: 2 TUBE STACKING
33	AHL-00022 (2)	CLAMP, HYD TUBING: 3 TUBE STACKING
34	AHL-00002	CLAMP, HYD TUBING: 2 TUBE
35	AHF-00036	[IF UNIT HAS BREAKAWAY COUPLERS, YOU NEED] DUST CAPS
36	AHA-00030	ADAPTER: 90 DEG. 3/4 M JIC X 3/4 M NPT EXTRA LONG
37	AHA-00042	ADAPTER: 3/4 90 DEG. F JIC X M JIC
38	AHF-00023	FEMALE QUICK COUPLERS-RIDGE STYLE
39	AHF-00035	FEMALE QUICK COUPLERS-BREAKAWAY STYLE

PARTS LIST - HYDRAULIC PLUMBING - HOSES - MODEL I-180TS

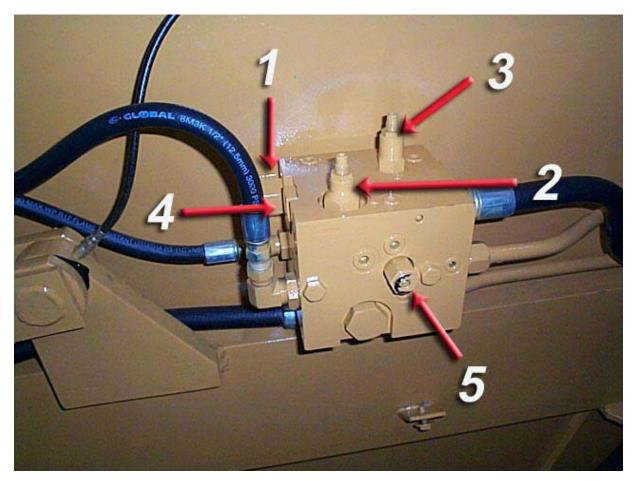
<u>Key No.</u>	<u>Part No.</u>	Description
А	A180H50	3/4" x 75" Long, M JIC, M NPT, Double Braid High Pressure Hose
В	A180H70	3/4" x 12" Long, M ORB, F JIC SS, Double Braid High Pressure Hose
С	A180H71	3/4" x 21" Long, M ORB, M JIC, Double Braid High Pressure Hose
D	A180H72	3/4" x 28" Long, 90 M ORB, M JIC, Double Braid High Pressure Hose
Е	A180H73	3/4" x 34" Long, M JIC, 90 M ORB, Double Braid High Pressure Hose
F	A180H74	3/4" x 32" Long, F JIC, M ORB, Double Braid High Pressure Hose
G	A180H56	3/4" x 41 5/8" Long, M JIC, M JIC, Double Braid High Pressure Hose
Н	A180H57	3/4" x 36 3/4" Long, M JIC, M JIC, Double Braid High Pressure Hose
Ι	A180H75	3/4" x 50 3/4" Long, M JIC, F JIC, Double Braid High Presure Hose
J	A180H76	3/4" x 36" Long, 90 M ORB, M ORB, Double Braid High Pressure Hose
К	A180H77	3/4" x 30" Long, M ORB, M ORB, Double Braid High Pressure Hose
Μ	A180H62	3/4" x 41 1/2" Long, M JIC, M JIC, Double Braid High Pressure Hose
Ν	A180H63	3/4" x 36 3/4" Long, M JIC, F JIC, Double Braid High Pressure Hose
0	A180H78	3/4" x 60" Long, M JIC, 90 M ORB, Double Braid High Pressure Hose
Р	A180H79	3/4" x 121" Long, 90 M ORB, F JIC, Double Braid High Pressure Hose
Q	A180H80	3/4" x 19 1/2" Long,90 M ORB,90 F JIC,Double Braid High Pressure Hose
R	A180H81	3/4" x 62" Long 90 M ORB, 90 F JIC, Double Braid High Pressure Hose
S	A180H82	3/4 " x 79" Long 90 M ORB, 90 F JIC, Double Braid High Pressure Hose
Т	A125020	32" x 1/8" M NPT x 1/8" M NPT Swivel, Remote Grease Line

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IMPORTANT

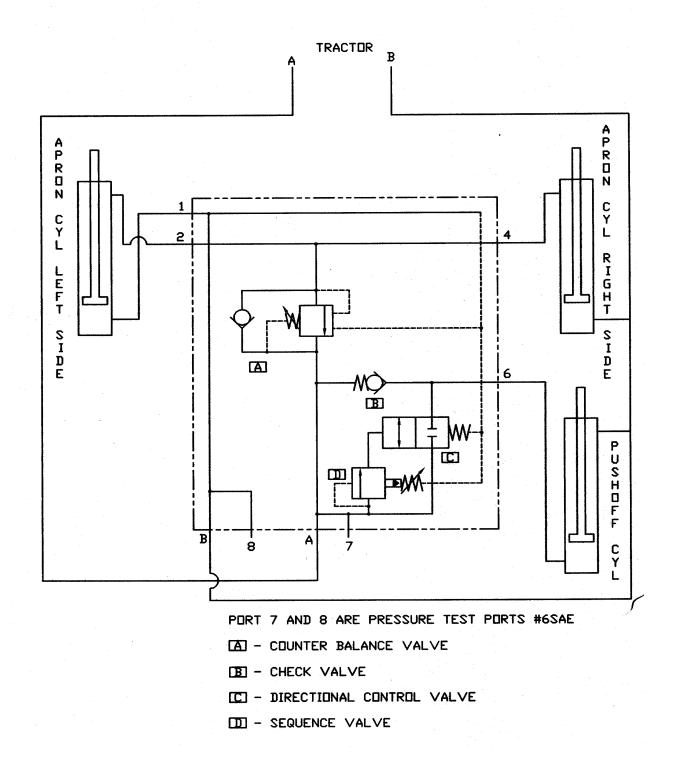
This Hyd. Manifold was intergrated into production Nov. 2003 It replaces t A125055 valve which was used S.N. 20750 to 20853 To confirm what valve you have confirm with earlier valve I.D. page

HYDRAULIC MANIFOLD ASSEMBLY A125070 S.N. 20853 & above



A125070 HYDRAULIC MANIFOLD		
ITEM #	PART NO.	DESCRIPTION
1	A125070-01	DIRECTIONAL CONTROL VALVE
2	A125070-02	APRON SEQUENCE CARTRIDGE
3	A125070-03	PUSHOFF SEQUENCE CARTRIDGE
4	A125070-04	CHECK VALVE CARTRIDGE
5	A125070-05	UNLOAD CARTRIDGE

I-180TS HYDRAULIC SCHMETIC



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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.

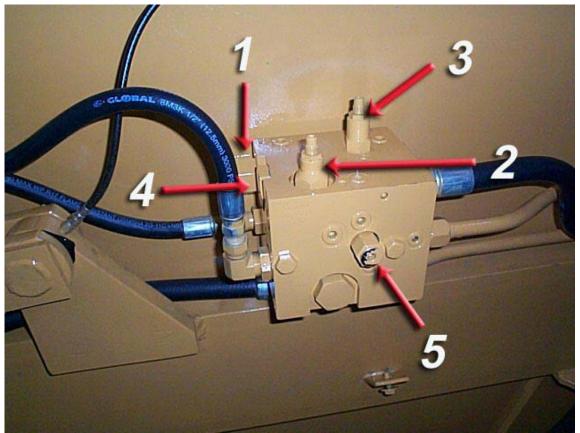
Setting the valves

STEP 1 PUSHOFF SEQUENCE VALVE

Loosen the lock nut (3/4'') on the sequence valve cartridge. Turn the setscrew (1/4'') 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 APRON SEQUENCE VALVE

Loosen the lock nut (3/4'') on the counterbalance valve cartridge. Turn the setscrew (1/4'') 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.







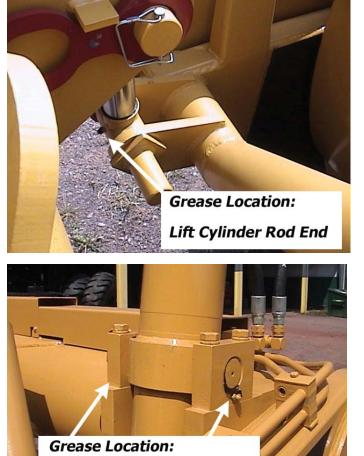




Grease Location:

Hitch, Caps





Lift Cylinder Trunion Blocks













All Grease areas should be cleaned prior to greasing. Lack of grease within these pivoting areas will void your factory warranty.

- 1. Grease all zerks.
 - a) Every 5 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) 29.5 25, 28-ply tire requires a tire pressure of 45-50 psi. If pressure drops, first secure valve stem, and if pressure continues to drop, contact Ashland Industries.
- 4. Check all pins for signs of wear.
 - a) Daily
- 5. 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.
- 6. 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.

Standard Two-Circuit Hydraulic Plumbing

The apron cylinders and the push-off cylinder are controlled on the same circuit with the sequence of the operation controlled by the hydraulic manifold which contains a sequence and counterbalance valve. The other hydraulic circuit controls the lift cylinders on the earthmover.

*To adjust the sequence valve, see Troubleshooting section.

CAUTION!

Relieve all hydraulic pressure before working on the hydraulic system.

WARNING!



High Pressure Fluid Hazard – To prevent serious injury or death from high pressure fluid:

- a) Relieve pressure on hydraulic system before repairing, adjusting, or disconnecting.
- b) Wear proper hand and eye protection when searching for leaks.
- c) Keep all components in good repair.

TORQUE SPECIFICATIONS

Grade 8		
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	

LUBRICATION

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

Lubrication Points

- 1. Hitch Horizontal and vertical pins.
- 2. Lift Cylinders Rod end; Both left & right sides.
- 3. Hold-down Rollers Both left & right sides.
- 5. Front Arm Pivot Joint Both left & right sides.
- 6. Apron Pivot Pin; Both left & right sides.
- 7. Lift Cylinders Trunnion Mount Blocks; Both left & right sides
- 8. Lift Cylinders Trunnion Mount Blocks; Both left & right sides

PUSHING THE EARTHMOVER

The I-180TS 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-180TS earthmover to prevent any unnecessary damage.



CAUTION! The I-180TS earthmover must be pushed in a straight line with a maximum of a 150 hp dozer. Do not ram or jar the earthmover while push and push at a constant speed.



TROUBLESHOOTING

Introduction

With proper care and maintenance, the I-180TS 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.

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.

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

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