

Quality Equipment Since 1953

I-180TS PARTS MANUAL

Version 4-04

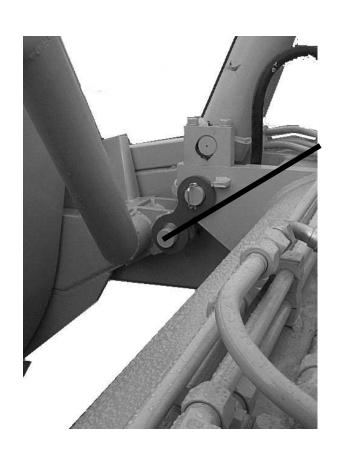


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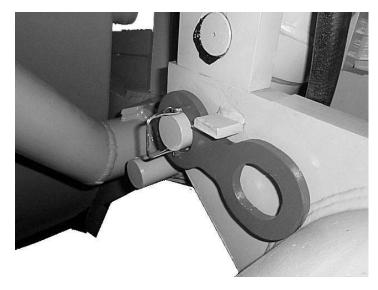


IMPORTANT



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.





Model I-180TS Scraper

HOW TO ORDER PARTS:

IMPORTANT

Parts must be ordered through your local authorized ASHLAND dealer. Be sure to state MODEL and SERIAL NUMBER of your machine, PART NUMBER, DESCRIPTION and QUANTITY needed.

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



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

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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.

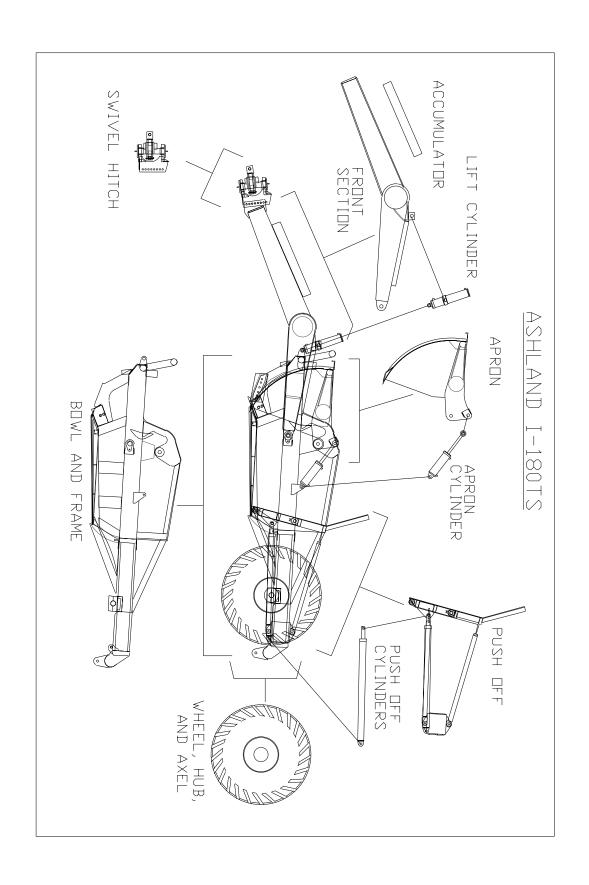
Do not attempt to operate this equipment under the influence of drugs or alcohol.

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.

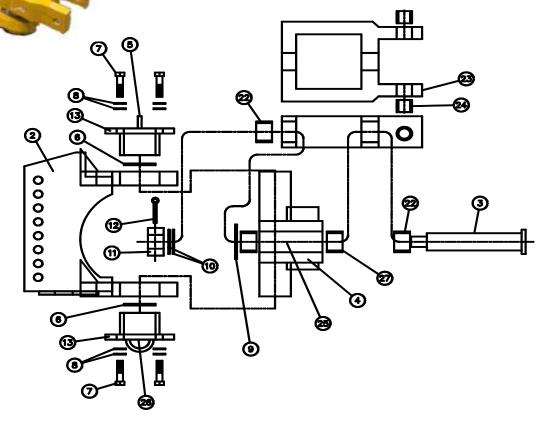
To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

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.**

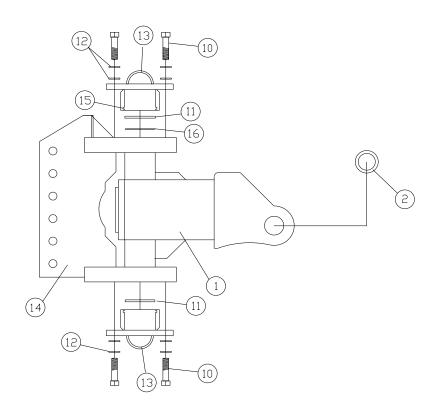


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A125056 Complete Yoke Type Hitch Implemented April 2003



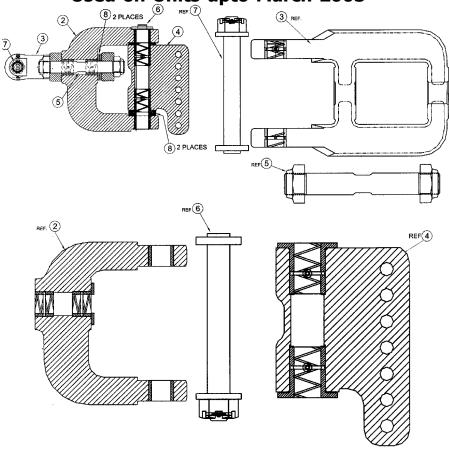
KEY NO.	PART NO.	DESCRIPTION
2.	A125056-02	UTIL HITCH BRKT
3.	A125056-03	MDU HITCH PIN
4.	A125056-04	MDU HITCH SWIVEL
5.	A125056-05	19C 18D HITCH CAP
6.	A125056-06	19C 18D WASHER SWIVEL HITCH
7.	A125056-07	BOLT: 3/4 X 3 HEX GR 8
8.	A125056-08	WASHER: FLAT - 3/4 HARD F-436
9.	A125056-09	WASHER: FKAT-2-1/2 HARD F-436
10.	A125056-10	WASHER: FLAT-1-1/2 HARD F-436
11.	A125056-11	NUT: SLOTTED 1-1/2 COARSE
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 DEGREE
27.	A125056-27	BUSHING: 300251200



SUPER CAPACITY SWIVEL HITCH ASSEMBLY A125057

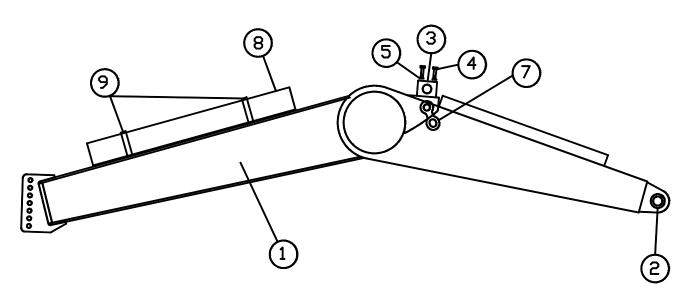
COMPLETE HITCH: H.D. ICON 360 DEG. SWIVEL

<u>ITEM</u>	QTY	PART NUMBER	DESCRIPTION
1	1	A125057-01	Swivel Hitch Yoke
2	2	A125057-02	Bushing, 1-1/2" ID, Reynolds Spec.
		A125057-02JD	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>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1.	A1063527	Super Yoke hitch, Includes 2 & 3, (w/o 4,6,7 & 1 ea.
		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)
	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)
	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)
	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.	AB581	Hitch Pin, Assembly (1 required)
	AB580	Pin Weldment (1 requried)
	AB195	Washer, 3.00"OD x 1.56" (1 required)
	AFN-00014	Nut, Slotted, 1.5" NC G5 (1 required)
	ARF06020-00060	Pin, Cotter
8.	A1063146	Washer, Thrust (4 required)
		9

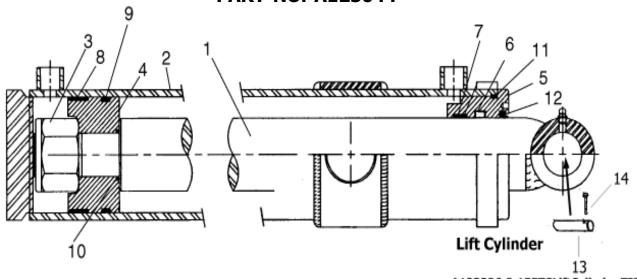
I-180 FRONT SECTION



I-180TS Front Section Frame A123320

<u>ITEM</u>	QTY	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

MODEL I-180 LIFT CYLINDER 5 1/2 X 20 PART NO. A125044



A123326-I-155TSLiftCylinder.TIF

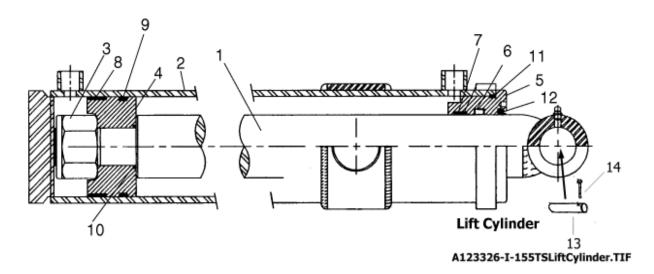
KEY NO.	PART NO.	DESCRIPTION
1.	A123326-1	Piston Rod: 2-1/2"
2.	A125044-02	Barrel Weldment, 5-1/2"
3.	AFN-00018	Nut: Lock 1-1/2-12
4.	A125044-04	Piston, 5-1/2"
5.	A125044-05	Gland, 5-1/2"
6.	A123324-6	Rod Seal
7.	A123324-5	Wear Band ID for Gland
8.	A125044-10	Wear Ring, 5-1/2"
9.	A125044-15	Piston Seal, 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)

*** Dealer Note ***

Some 2002 models used a $5" \times 20"$ 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"

LIFT CYLINDER 5 X 20" PART NO. A123326



KEY NO.	PART NO.	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"

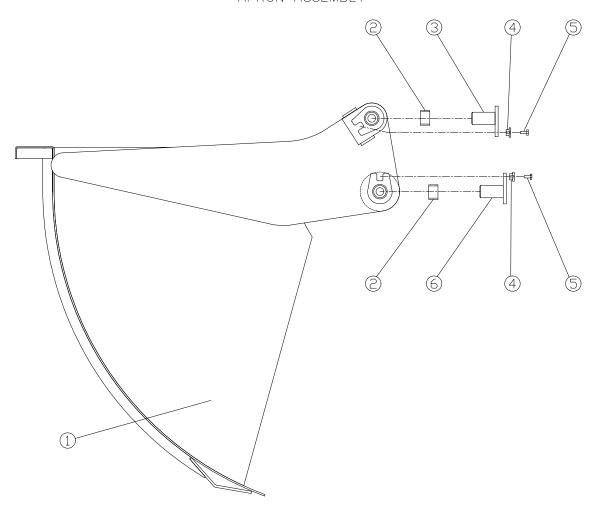
*** Dealer Note ***

Some 2002 models used a $5" \times 20"$ 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

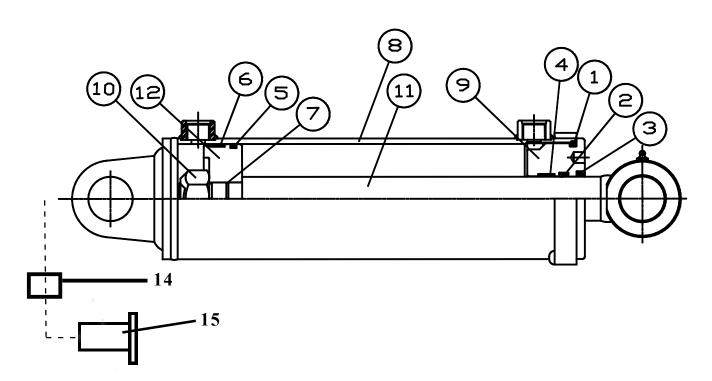
APRON ASSEMBLY



<u>ITEM</u>	QTY	PART NUMBER	<u>DESCRIPTION</u>
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
			5
3	2	A123322-14	Pin: $2'' \times 3-3/4''$ 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

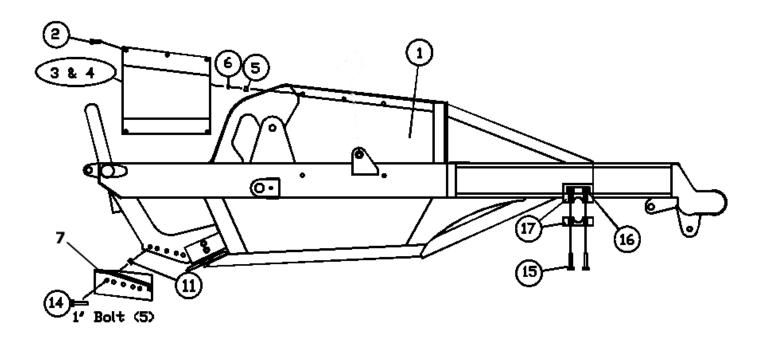
I-180 APRON CYLINDER

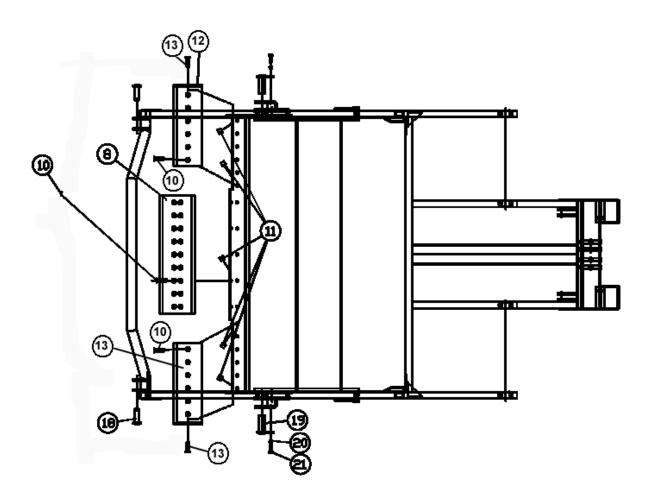
PART NO. A123361 5' BORE X 13' STROKE (2) REQ'D



<u>ITEM</u>	QTY	PART NUMBER	<u>DESCRIPTION</u>
1	1	A123361-1	O-RING
2	1	A123361-2	ROD SEAL
3	1	A123361-3	WIPER SEAL
4	1	A123361-4	WEAR RING
5	1	A123361-5	PISTON SEAL
6	1	A123361-6	WEAR RING
7	1	A123361-7	O-RING
8	1	A123361-8	BARREL
9	1	A123361-9	HEAD
10	1	A123361-10	LOCK NUT
11	1	A123361-11	ROD
12	1	A123361-12	PISTON
13	1	A123361-13	SEAL KIT, INCLUDES ITEMS 1 - 7
14	2	A125018	Bushing: 2-3/8" O.D. x 2" I.D. x 1-1/4 long
15	2	A123322-09	Pin: Apron cylinder barrel end

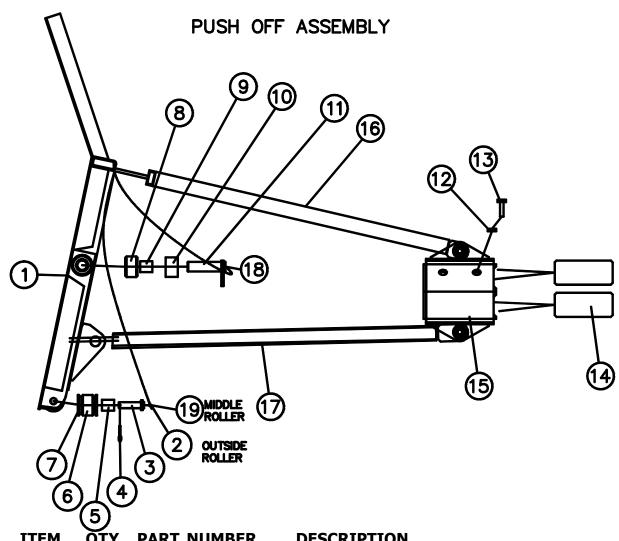
I-180 BOWL AND FRAME ASSEMBLY





I-180 BOWL AND FRAME PARTS LIST

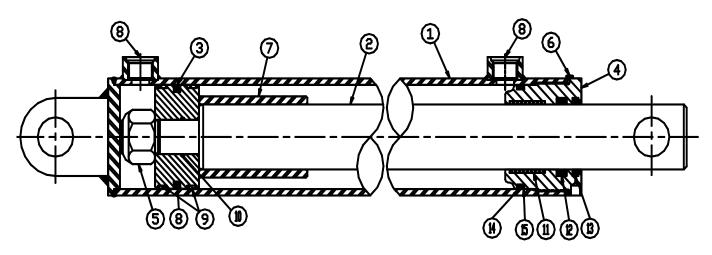
<u>ITEM</u>	QTY	PART NUMBER	DESCRIPTION
1	1	A123321	Bowl and frame assembly
2	10	AFB-00034	Bolt: 3/8" NC x 1" long
3	1	A123369-1L	Left side dirt shield
4	1	A123369-1R	Right side dirt shield
5	10		Nut: 3/8" nc
6	10		Washer: 3/8" flat
7	2	A123355	Corner cutting blade, "L" shape, reversible, 13" x 36-1/2" L & R
Each b	lade re	quires: (6) 1" x 2-3/4" plo	w bolts, (2) 1" x 2-1/2" plow bolts, (8) 1" NC nuts
8	1	A123356SER (stardard)	Center blade, Serrated Both sides, Reversible
	1	A123356SER1	Center blade, 1-side Serrated & 1-side Straight
	1	A123356	Center cutting blade, reversible, Straight,
		Blade requires: (9) 1" x 2	Blade Diamensions. 16" x 54-1/4" 2-3/4" plow bolts, (9) 1" NC nuts
10	21	PB1P-NC-100-0275	Plow bolt: 1" NC x 2-3/4" long
11	25	AFN-00012	Nut: 1" NC
12	2	A123357	Bank shaver/router bit, reversible, L & R
		Each blade requires: (5)	1" NC x 3" long bolts, (5) 1" NC nuts
13	4	PB1P-NC-100-250	Plow bolt: 1" NC x 2-1/2" long
14	10	AFB-0018	Bolt: 1" NC x 3" long (5 per router blade)
15	4	AFB-00067	Bolt: 1-1/4" NF x 7-1/2" long
16	4	AFN-00032	Nut: 1-1/4" NF
17	2	A123321-65	Axle mount
18	2	A123335	Lift cylinder pin
19	2	A123321-09	Main frame pin
20	2	A123358	Flanged bolt bushing
21	2	AFB-00079	Bolt: 5/8" x 1 1/2" long



<u>ITEM</u>	OTY	PART NUMBER	DESCRIPTION
1	1	A123323	Push Gate Assembly
2	2	A125023	Grease line, outside floor roller 48"
3	3	A123323-21	Pin: 1-1/4" x 4-1/8" long
4	3	AFP-0001	Cotter Pin: 1/4" x 3 1/2"
5	3	A10163	Bushing: 1-3/4" O.D. x 1-1/4" I.D.
6	3	A10164	Roller
7	6	AFW-00015	Washer
8	2	A123323-24	Roller
9	2	A123323-24B	Bushing: 2-1/2" O.D. x2" I.D.
10	2	A123323-09	Spacer
11	2	A123323-23	Pin: 2" x 4-1/8" long
12	12	AFN-00030	Nut: 3/4" NF
13	12	AFB-00060	Bolt: 3/4" NF x 2" long
14	4	A123364-08	Plastic slide
15	1	A123364	Slide Guide Box
16	2	A123323-36	Top Support
17	2	A123323-35	Bottom Support
18	2	A125022	Grease line, hold down roller 18"
19	1	A125023	Grease line, middle floor roller 96"

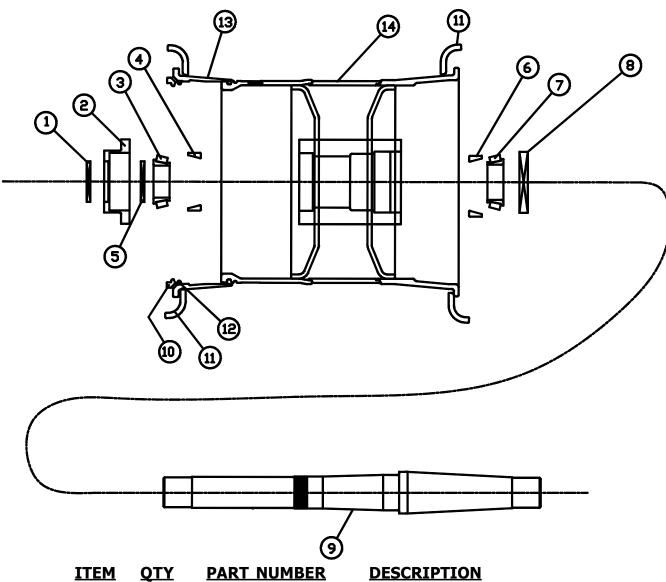
I-180 TS PUSH OFF CYLINDER PART NO. A123360 (2) Required

4" Bore × 60" Stroke



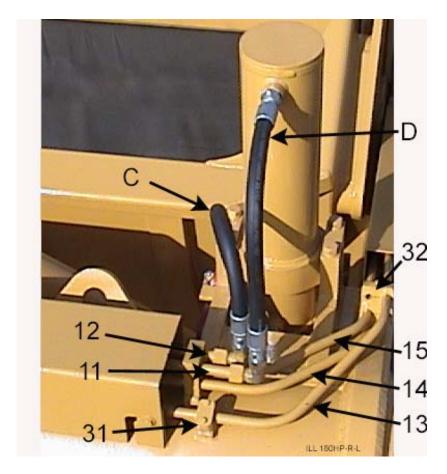
<u>ITEM</u>	<u>QTY</u>	PART NUMBER	DESCRIPTION
1	1	A123360-01	BARREL
2	1	A123360-02	ROD
3	1	A123360-03	PISTON
4	1	A123360-04	GLAND
5	1	A123360-05	LOCK NUT
6	1	A123360-06	SCREW
7	1	A123360-07	SPACER SLEEVE
8	1	A123360-08	PISTON SEAL
9	1	A123360-09	WEAR RING
10	1	A123360-10	O-RING
11	1	A123360-11	WEAR 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

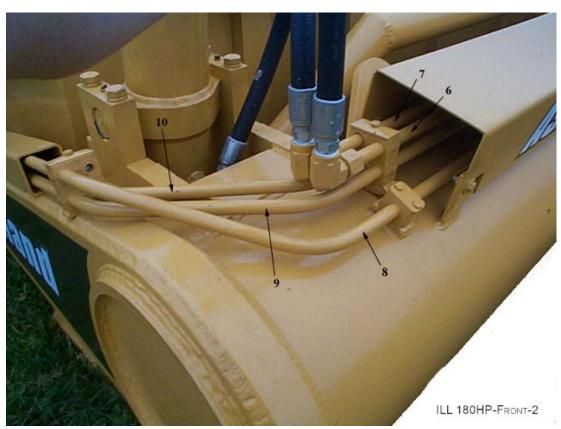
WHEEL ASSEMBLY



<u>ITEM</u>	QTY	PART NUMBER	DESCRIPTION
1	1	A125008	Outer Seal CRWH1
2	1	A123359-03	Cap- seal mount
3	1	A125016	Outer Bearing Cone 77375
4	1	A125017	Outer Bearing Cup 77675
5	1	A125013	Spindle nut
6	1	A125015	Inner Bearing Cup
7	2	A125014	Inner Bearing Cone
8	1	A125007	Inner Seal CRSHA1
9	1	A123368	Axle
10	1	A12042	Lock Ring
11	2	A12041	Side Ring
12	1	A12047	O-Ring
13	1	A12043	Collar
14	1	A123359-04	25 x 25 wheel/hub

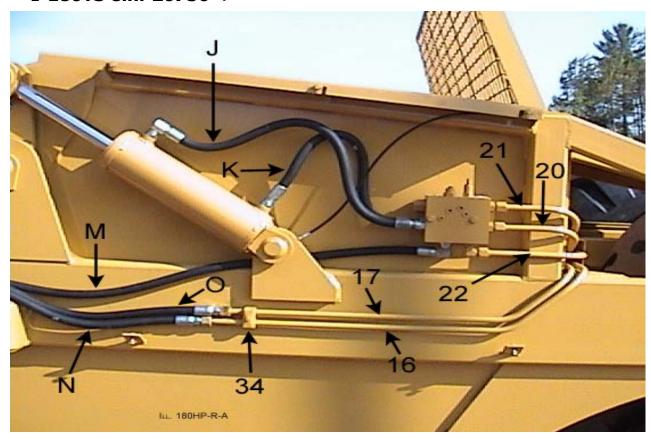
Front Section I-180TS

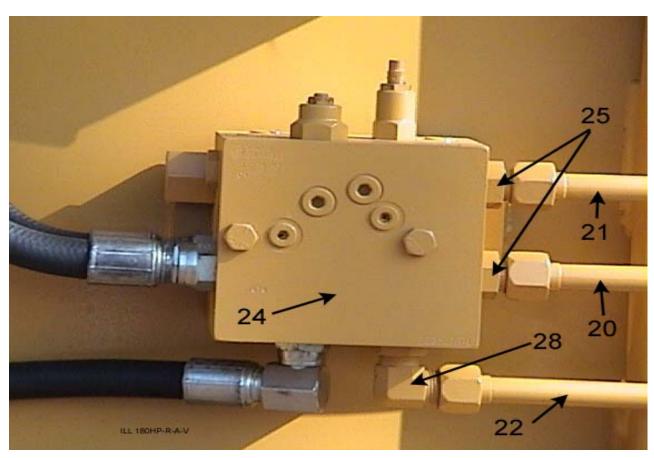




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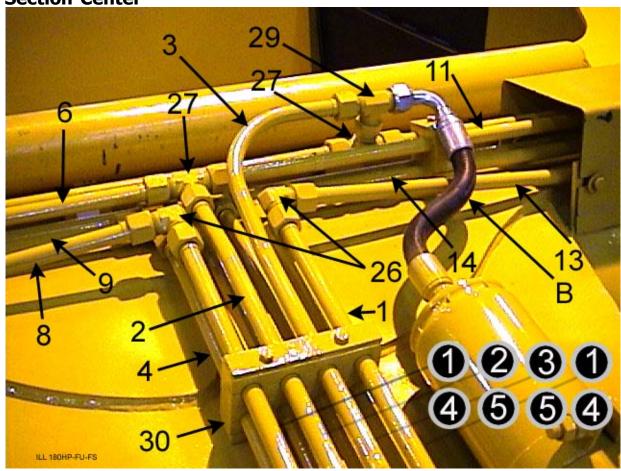
Hydraulic Plumbing I-180TS s.n. 20750 +

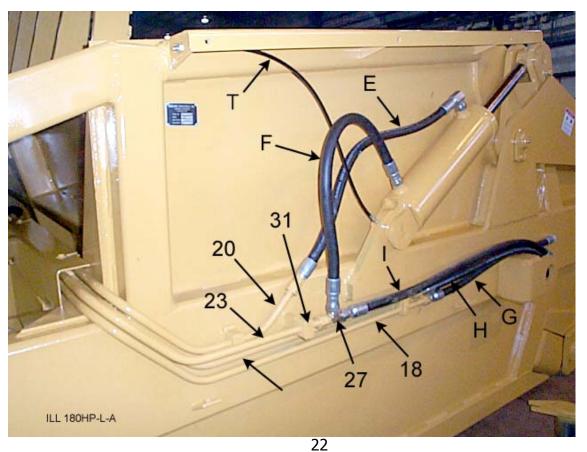




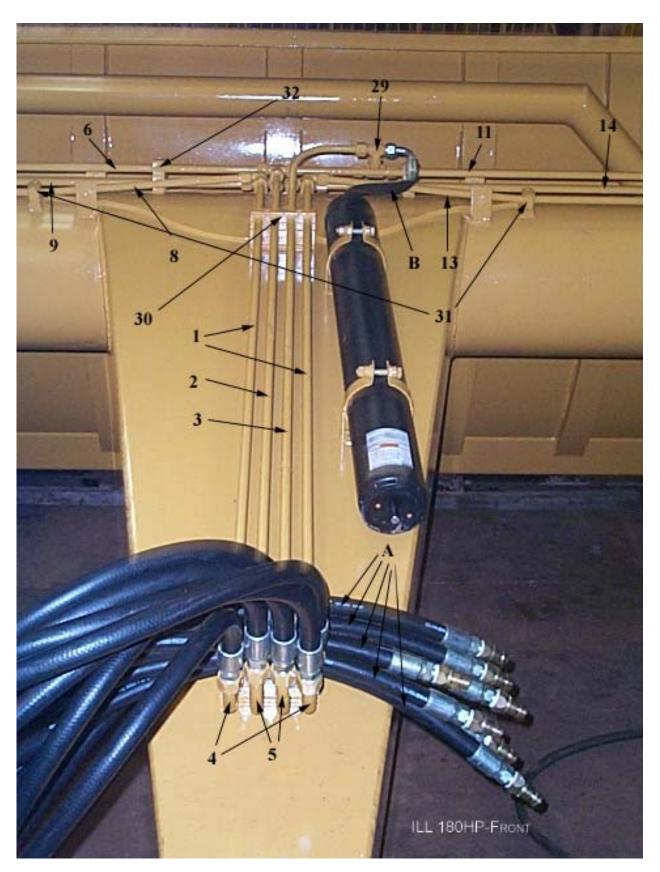
Hydraulic Plumbing I-180TS

Front Section Center

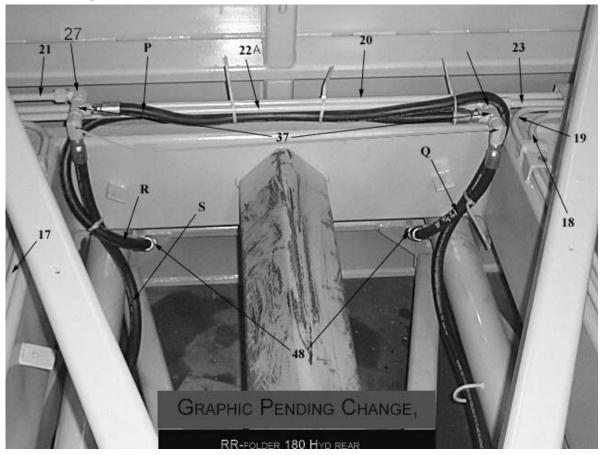


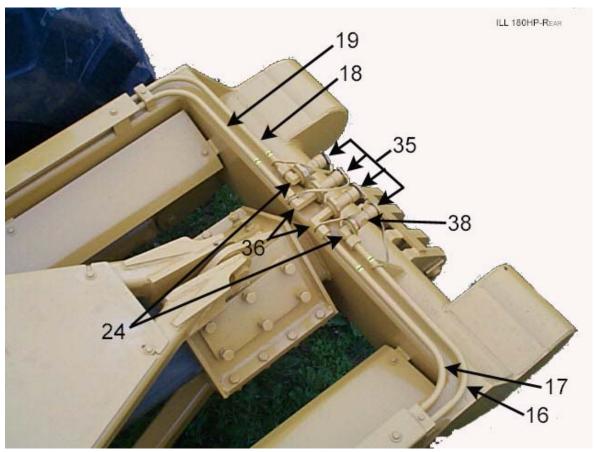


Hydraulic Plumbing I-180TS Front Section



Hydraulic Plumbing I-180TS Behind Bowl Top





PARTS LIST - HYDRAULIC PLUMBING - MODEL I-180TS

Kev No.	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>	<u>Description</u>
Α	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
I	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
K	A180H77	3/4" x 30" Long, M ORB, M ORB, Double Braid High Pressure Hose
М	A180H62	3/4" x 41 1/2" Long, M JIC, M JIC, Double Braid High Pressure Hose
N	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	$32'' \times 1/8'' \text{ M NPT } \times 1/8'' \text{ M NPT Swivel, Remote Grease Line}$

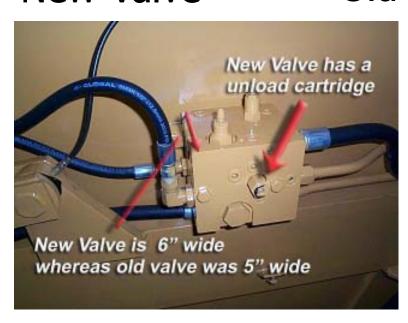
HYDRAULIC VALVE IDENTIFICATION





New Valve

Old Valve

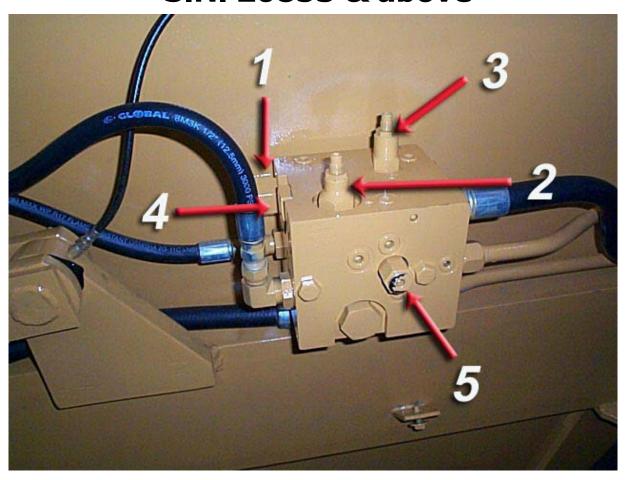


Visually there are several thing you can check to ensure you have the correct valve. The new valve (shown on the left) is 6" wide whereas the older valve (shown below) was 5" wide. The new valve utilizes a unload cartridge that sticks outward on the side of the valve.



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

HYDRAULIC MANIFOLD ASSEMBLY A125070 S.N. 20853 & above



ITEM #	<u>PART NO.</u>	<u>DESCRIPTION</u>
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

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.

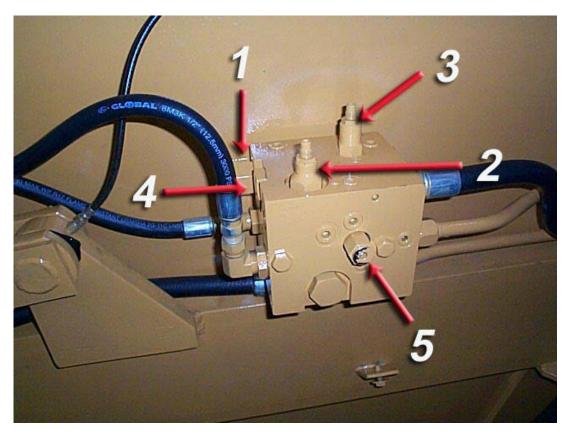
Setting the valves:

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 (4 mm) 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.

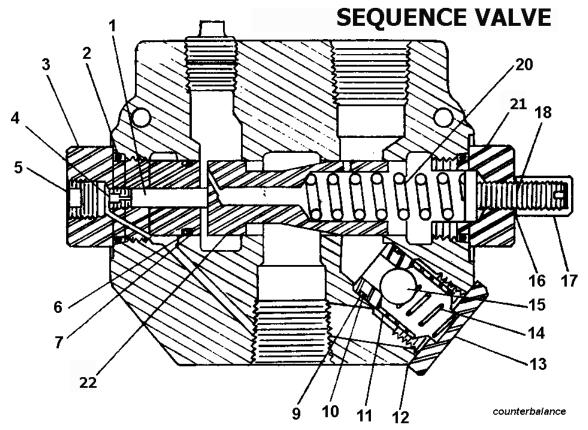


IMPORTANT: This Hyd. Manifold has been replaced by A125070 on Nov 2003. To confirm which valve you have, confirm with earlier valve I.D. page

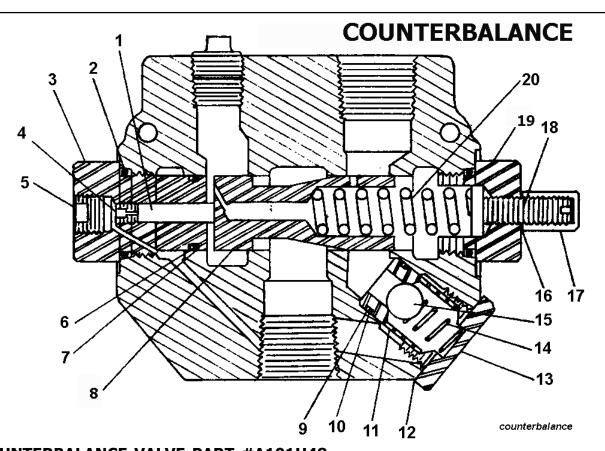
HYDRAULIC MANIFOLD ASSEMBLY A125055 S.N. 20750 to 20853



<u>ITEM #</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	A125055-01	DIRECTIONAL CONTROL VALVE
2	A125055-02	COUNTER BALANCE CARTRIDGE
3	A125055-03	SEQUENCE CARTRIDGE
4	A125055-04	CHECK VALVE
5	A125055	COMPLETE ASSEMBLY WITH ALL VALVES



SEQUENCE VALVE PART #A101H47



COUNTERBALANCE VALVE PART #A101H48

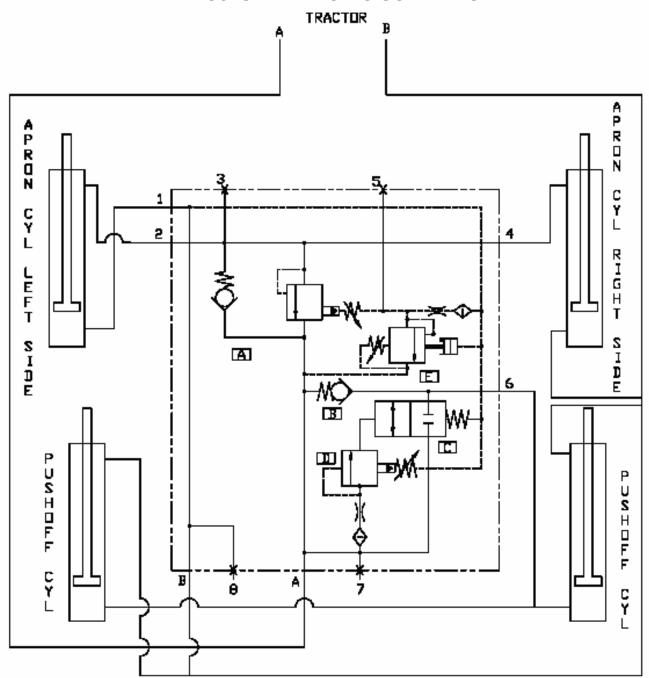
SEQUENCE AND COUNTERBALANCE VALVE PARTS LIST

SEQUENCE VALVE PART #A101H47 COUNTERBALANCE VALVE PART #A101H48

<u>KEY #</u>	PART NO.	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	A101H56	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	A101H67	Adjusting plug - RD1075 CB
20	A101H68	Metering spring
21	A101H69	Adjusting Plug - RD1075 SM
22	A101H70	Metering Spool
*	A101H71	Valve body

^{*} NOT SOLD SEPARATELY

I-180TS HYDRAULIC SCHMETIC



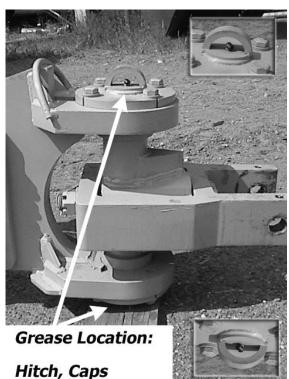
PORT 7 AND 8 ARE PRESSURE TEST PORTS #6SAE

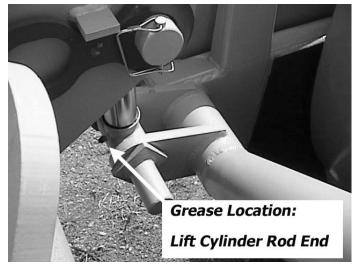
<u>KEY</u>	DESCRIPTION	
Α	Counter Balance Valve	
В	Check Valve	
С	Directional Control Valve	
D	Sequence Valve	

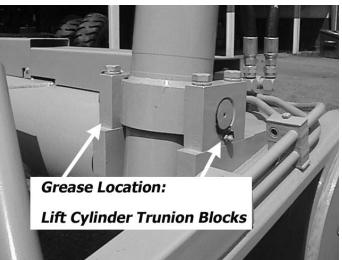
GREASE LOCATIONS



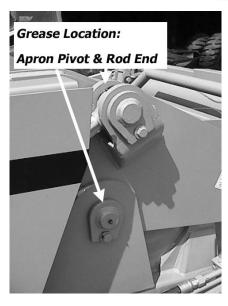








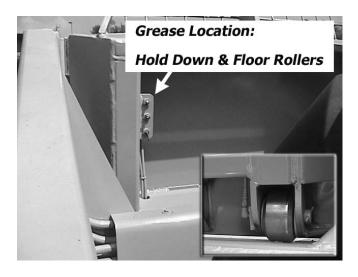
GREASE LOCATIONS











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

MAINTENANCE CHECKLIST

- 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 earthmore.

*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

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

Lubrication Points

- 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.

- 1. 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