



Meteor Loader Blower with Power Pack Operator's / Parts Manual



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3950 Steffler Rd. • Elmira • Ontario, Canada • N3B 2Z3 • Email : sales@mkmartin.ca • Fax : (519)-664-3695 • Tel : (519)-664-2752

Warranty

Effective on products retailed on or after November 1, 2017

Two Year Limited Consumer Warranty

Five Year Limited Consumer Warranty on Gearboxes

90 Day Limited Commercial Warranty including Gearboxes

Commercial includes rental and industrial applications.

Warranty begins at the time of customer delivery and is activated upon warranty registration receipt at MK Martin Enterprise Inc.

Warranty coverage is null and void unless the Warranty Registration form has been completed in full and is on file at MK Martin Enterprise Inc.

Keep your registration copy in a safe place, it is required as proof of warranty activation.

This new and unused product is warranted by MK Martin Enterprise Inc. to be free from defects in material and workmanship under normal use and regular service as described in the owner's manual, for a consumer period of 2 years and 5 years for gearboxes, from the date of delivery, and commercial period of 90 days, including gearboxes, from the date of delivery. Warranty is limited to the replacement of parts and / or repair of the product.

If issues develop within the warranty period with the product, contact the local dealer from which you purchased the unit. Only MK Martin authorized dealers may make repairs to the product or affect the replacement of defective parts, unless otherwise approved by MK Martin. Repairs / replacement will be done at no charge within a reasonable time after the receipt of the product.

This warranty does not cover the following items:

1. Normal replacement of service items.
2. Normal maintenance or adjustments.
3. Machines or parts lost or damaged during shipment,
4. Accessory items / parts not supplied by MK Martin
5. Damages resulting from:
 - misuse, negligence, accident, theft or fire
 - use of improper or insufficient fuel, fluids or lubricants
 - use of after market parts or accessories, unless approved by MK Martin
 - modifications, alteration, tampering or improper repair
 - any device or accessories installed by other than an authorized dealer.
6. Tires are covered by the manufacturer of the tire and the warranty period specified by that manufacturer. **Please contact the tire manufacturer for warranty on these items.**

MK Martin Enterprise Inc. shall not, in any event, be liable for any losses, damages or costs; to include profits, travel, transportation, pick up, delivery, towing cost, tow vehicle, loss of use, whether special, incidental, consequential or otherwise, in any way. Unit or parts are returned at the customer's expense.

Include a copy of your completed Warranty Registration form with any claim as proof of warranty activation.

There are no warranties, expressed or implied, other than those specified herein. No agent, employee or other person has any authority to vary any of the foregoing provisions.

Warranty coverage is null and void unless the Warranty Registration form has been completed in full and is on file at MK Martin Enterprise Inc. Warranty begins at the time of customer delivery and is activated upon Warranty Registration receipt at MK Martin Enterprise Inc.

M K Martin Enterprise Inc

3950 Steffler Rd

Elmira ON CA N3B 2Z3

Purchaser's warranty protection is valid only when this completed form or a copy of this form is on file at M K Martin Enterprise Inc. By filling out this form the purchaser has acknowledged delivery of equipment and owner's / operator's manual and has accepted the condition of the equipment.

Date of delivery to purchaser -----

Type of Equipment -----

Model # ----- Serial # -----

Retailer's Signature Indicates

- *Equipment was properly assembled as directed by manufacturer*
- *Equipment was tested for functionality and operates properly*
- *Purchaser was instructed in safe and proper operating procedures*
- *Warranty was explained to purchaser*
- *Purchaser was given the operators manual*

Retailer

Signature -----

Company -----

Address -----

Purchaser's signature indicates

- *Acceptance of equipment fully assembled*
- *Received operator's manual*
- *Clearly understands conditions of warranty*
- *Received instructions of safe and proper operation of equipment*

Purchaser

Signature -----

Company -----

Mailing address -----

City ----- Prov/State ----- Postal Code/Zip -----

Available phone number -----

Warranty is valid only when it has been received by manufacturer at address above

Warranty Registration

Please Cut and Return to M K Martin Enterprise Inc

Fold And Tape here

Do not tape all edges or use staples

Fold Here

**Postage
Stamp**

**M K Martin Enterprise Inc
3950 Steffler Rd
Elmira ON CA N3B 2Z3**

Safety

Take Note: This safety symbol is found throughout this manual to call your Attention to instructions involving yourself and others working around the machine.

- **Failure to follow these instructions can result in Injury or death**



This Symbol means

**-- Attention!
-- Become Alert!
-- Your Safety is Involved!**

Signal words are used in this manual.

Caution: Indicates a potentially hazardous situation that may result in injury.

Warning: Indicates a hazardous situation that could result in serious injury or death.

Danger: Indicates a hazardous situation that needs to be avoided. It is you the operator that needs to be aware of these dangers!

If you have any questions not covered in this manual please contact your dealer or;

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Safety --- It's in your interest!



Safety Guidelines

Safety of operation is one of our main concerns, however it is up to the operator to practice caution!

To avoid personal injury, study the following precautions and insist that all those working with you follow them as well.

The Meteor Snowblower has a shield covering the auger motor and the hydraulic lines leading to the motor. Do not use with cover loose or missing.

Replace any decals that maybe missing or not readable. Location of decals are indicated elsewhere in this manual.

Do not use this machine while under the influence of drugs or alcohol.

This equipment should not be operated by children: or those unfamiliar with the operation of the Meteor Snowblower. **Do not allow persons to operate this machine until they have read this manual and/or where instructed by a qualified person.**

Do not use this machine to push snow as this can result in the augers Becoming broken or bent.



When removing ice and snow from the machine; **Stop the engine and remove the keys on the Loader and disconnect the chute control wire!** This will reduce the possibility of the blower being started and causing personal injury.



Please be careful with the extra weight on the tractor. Note: you have added weight to the front and back of the tractor. Keep the blower close to the ground at all times. Do not drive with the loader raised up more than a few feet.

Hydraulic Leak Test



Warning! Do not check for high pressure leaks with your hands or fingers. Use a piece of cardboard or a thin piece of wood to detect the leak.

A high pressure stream of fluid from a pin hole can penetrate the skin and inject hydraulic fluid into your blood veins.

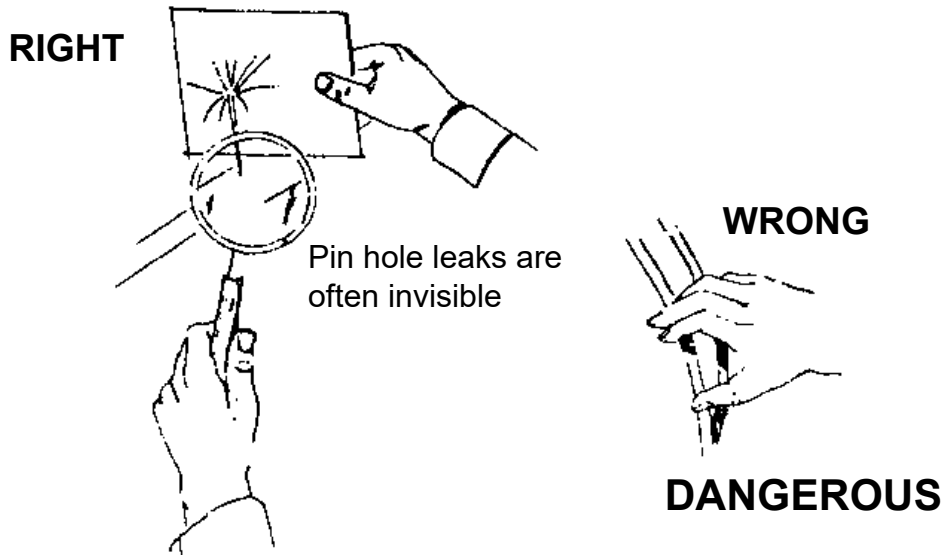


Figure 1. Detecting pinhole leaks in a hydraulic system.



IF THE SKIN HAS BEEN PENETRATED GET MEDICAL ATTENTION IMMEDIATELY!



Hydraulic lines may have high pressure fluid in the lines, even when the lines are disconnected.

Remember a small leak at high pressure may be invisible yet can penetrate the skin. If this happens get medical attention immediately, serious infection or toxic reaction can develop when hydraulic fluid pierces the skin.

Use caution when working with hydraulic components. Ensure there are no leaks, all fittings are tight and all components are in good repair.

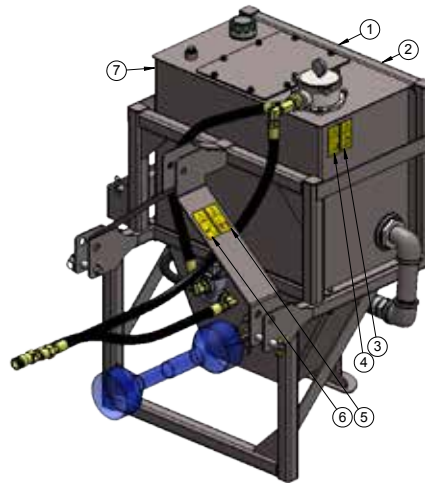
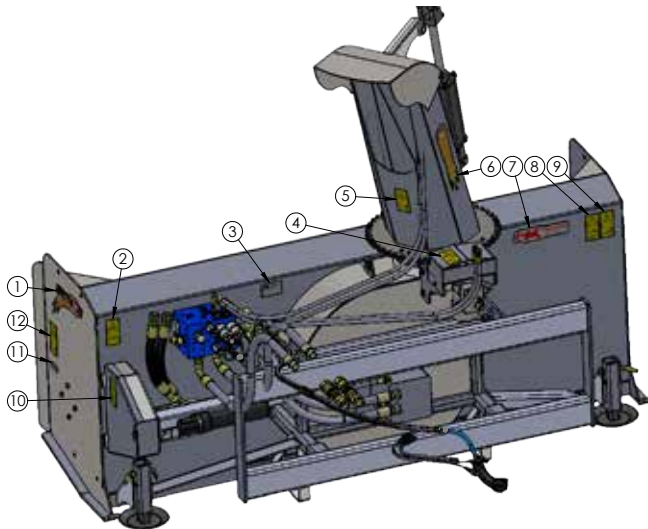


Use a piece of wood or cardboard as a backstop when searching for leaks, **NEVER** your hand or fingers.



Always relieve pressure before disconnecting or working on hydraulic system.

Meteor Loader Blower Decal Location



Meteor Loader Blower Decals

	1- Meteor small decal 2 pieces
	2- 244 Avoid fluid escaping under pressure. Consult technical manual for service procedures. 1 piece
	3- Serial number plate 1 piece
	4- 213 Do not open or remove safety shields while engine is running. 1 piece
	5- 224 Keep safe distance from this machine. 1 piece
	6- Chute decal. 2 pieces
	7- SmallMKMartin Made in Canada. 1pc
	8- 226 Shut off engine and remove key before performing maintenance or repair work. 1 piece
	9- F9 Read operators manual 1 piece
	10- 212 Do not open or remove safety shields while engine is running. 1 piece
	11- Grease decal. 2 pieces
	12- 236 Stay clear of rotating auger 2 pieces

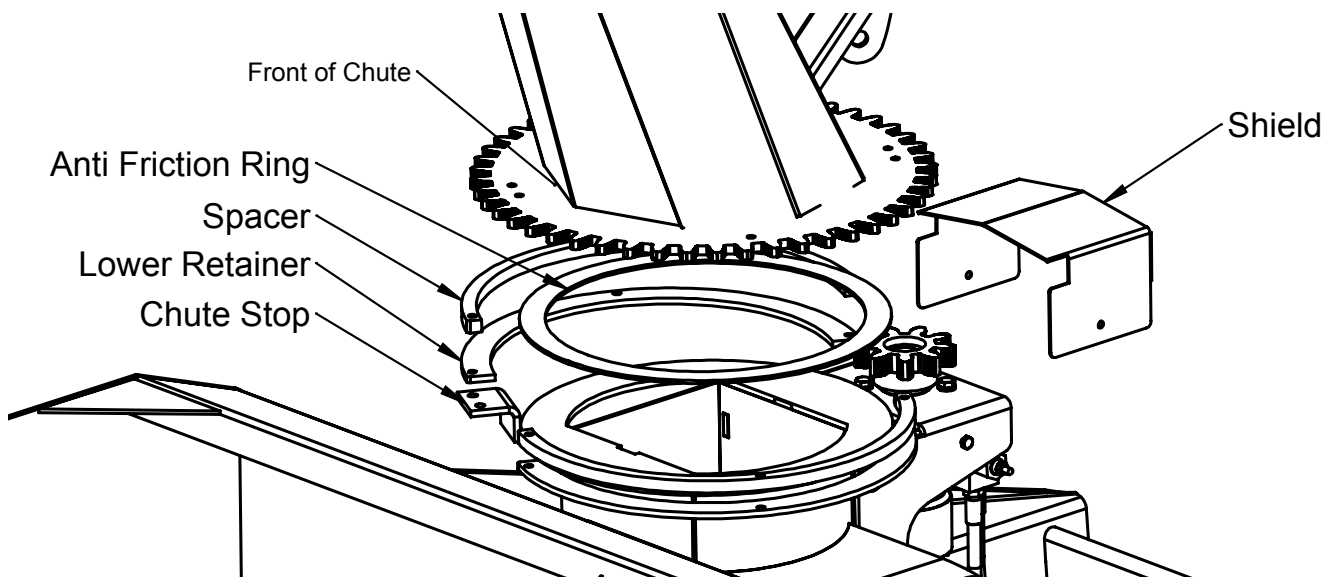
Power Pack Decals

	1- SmallMKMartin Made in Canada 1 piece
	2- Decal SMV, slow moving vehicle. 1 piece
	3- 226 Shut off engine and remove key before performing maintenance work. 1 piece
	4- F9 Read operators manual 1 piece
	5- 207 Stay clear of draft link lifting range while operating rockshaft controls. 1 piece
	6- 220 Do not open or remove safety shields while engine is running. 1 piece
	7- 244 Avoid fluid escaping under pressure. Consult manual for service procedures. 1 piece



Meteor Loader Blower Assembly

For shipping the chute is not installed on the Snowblower.
After receiving the blower unpack the chute and attach it to the blower as shown below.



Apply a light coat of grease to both sides of the plastic Anti Friction Ring and center on top of the fan outlet.

Next place Chute on top of plastic ring.

Position the Lower Retainer below the flange of the fan outlet -- place the Spacer on top of the Lower Retainer and bolt it to the Chute with 5/16x1 1/2 bolts.

Attaching the Meteor Loader Blower

The Loader Blower has two basic parts. The Power Pack and the Blower. The Power Pack is attached on the rear 3ph and driven with the PTO. The Blower is attached to the loader and driven with hydraulic lines from the power pack.

The Power Pack and the power Pack lines use Flat Face Couplers and the line that is attached to the loader arms have Flat Face couplers at each end. The hoses that are routed along the loader arms need to be positioned so they won't get pinched, kinked, stretched or get caught at any point during the movement of the loader arms, tilting forward and back. The hoses to the power Pack also need to be positioned so they will not interfere.

Attach the Power Pack to the 3ph in the same manner as an implement is attached. Adjust the top link to level the reservoir in the working position. After the Pack is on the tractor, put the back stand in the transport position.

Attach the Blower the same as any loader attachment. Ensure that all pins are locked and secure.

The Chute Rotator and Deflector are operated by 12 volt electrics from the battery and controlled by the operator. The electric control consists of a Battery wire, a Control Handle, an Extension wire and wire leads on the Blower.

The Battery wire should be attached to the Battery or a 25 amp source of power. The Battery wire is connected to the Control Handle, the Extension wire is plugged into the other Handle plug and strung along the Hydraulic lines to the Blower. The Battery wire has a 20 amp breaker inside to protect the wires and the Valve Block.

Installing Electric Chute Control

The Chute is controlled with a control pendent that has two switches. One switch is for the rotator and the other is available for the deflector control.

The Chute Control consists of;

- 1 Battery wire, (has Red and Green sleeves on battery end with battery clips)
- 1 Extension wire
- 1 Control Handle
- 1 Control Wire

1. Attach the Red sleeved wire to the Positive + Battery terminal
2. Attach the Green - Battery wire to the Negative Terminal or Ground
3. Connect the other end of this wire into the Control Handel Connector, *2 prong*
4. Attach the Control Wire; from the Valve Block to the Control Handle.
5. Route the Control Wire along the Loader Frame to the Snowblower.
6. Route the wire along the loader frame and secure with wire ties.
7. Ensure that the wire will not get **pinched, stretched or entangled in any way** during any and all movement of the loader.

The Battery Wire has a 20 amp Breaker inside to protect the Control Wire and solenoids on the Snowblower. inspect this wire periodical for abrasion and damage. Rectify if any damage is noted.

Notice

The wires on the valve block may be reversed if you prefer the switch to work in the opposite way. This may be done where the wire is attached to the valve block.

Operating the Meteor Loader Blower

Before operating this equipment, inspect all electrical connections and hydraulic couplings for proper connection.

Raise the Power Pack far enough to have adequate ground clearance of the front stand. Place the back stand in transport position to keep it from getting damaged.

To start the Blower idle the engine down and engage the PTO, slowly bring the engine to 540 PTO speed. This will also start the Blower motors. There is no on/off valve in the system.

There is a relief valve to protect the hydraulics and blower fan and auger.



Please note that there is added weight to both ends of the tractor. The Power Pack filled with oil weighs approx 700 lbs and the Blower at 950 lbs for a total of approx 1650 lbs.

Ensure you have proper tire pressure! The tractor will also handle differentially with the added weight.



Slow down and do not drive with the blower raised too high as this would cause the tractor to become unstable and top-heavy and easier to roll over!



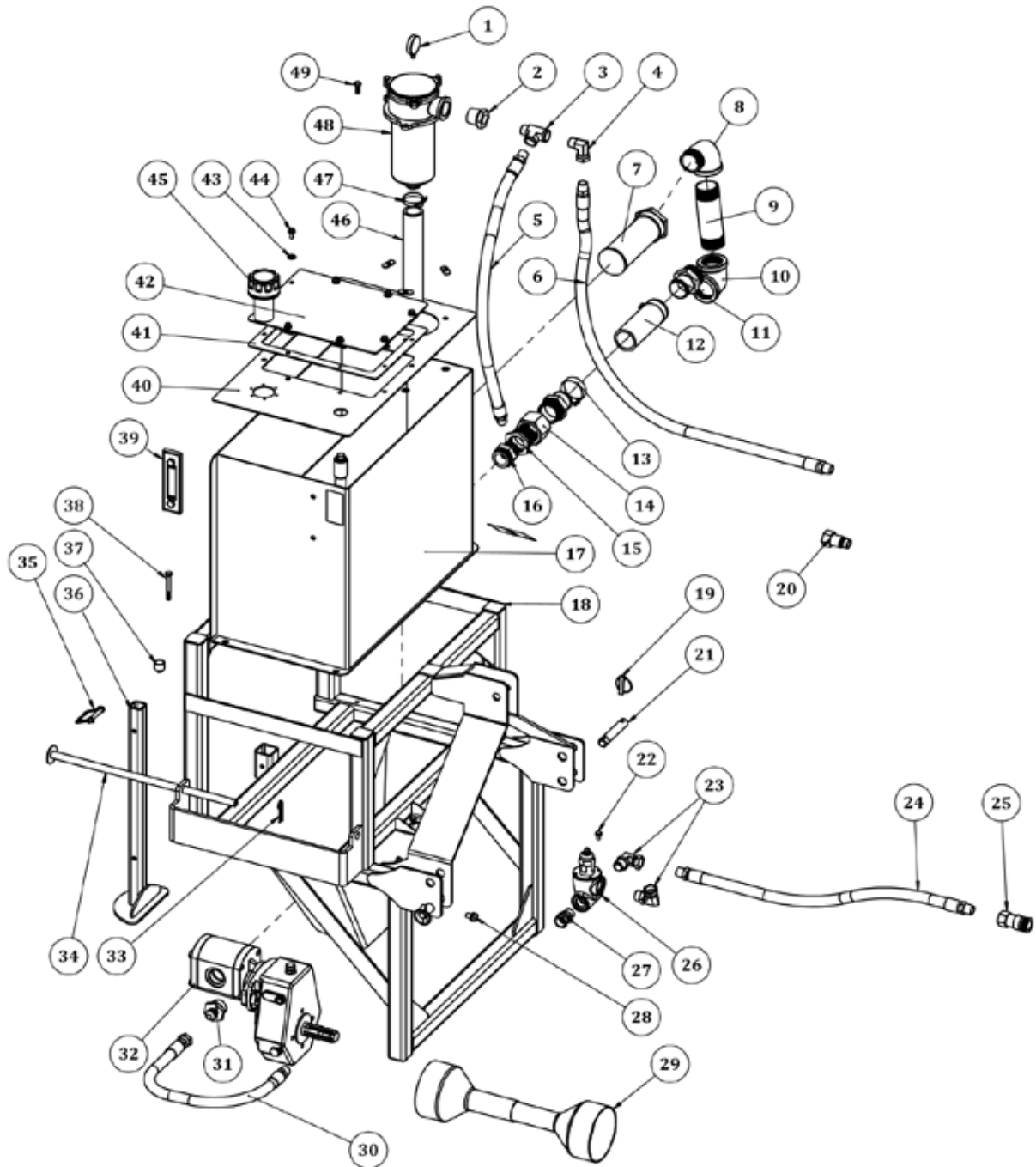
To ensure your safety. Before doing any work on the blower, removing foreign matter, unjamming, adjusting or cleaning off, Stop the tractor engine and remove the key AND unplug the battery wire from the chute control handle! This ensures that the hydraulics or the electrics will not become activated and cause an injury or death.

Sign Off Form

M K Martin Enterprise Inc. follows the general Safety Standards specified by the American Society of Agricultural Engineers (ASAE) and the Occupational Health and Safety Administration (OSHA). Anyone who will be operating and/or maintaining the equipment must read and clearly understand ALL Safety Operating and Maintenance instructions presented in this manual. Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up. Make these reviews of SAFETY and OPERATION annually as a standard practice for all your equipment. We feel that an untrained operator is unqualified to operate this machine. A sign-off sheet is provided for your record keeping to show that all personnel who will be working with the equipment have read and understood the information in the operator's manual and have been instructed in the operation of the equipment.

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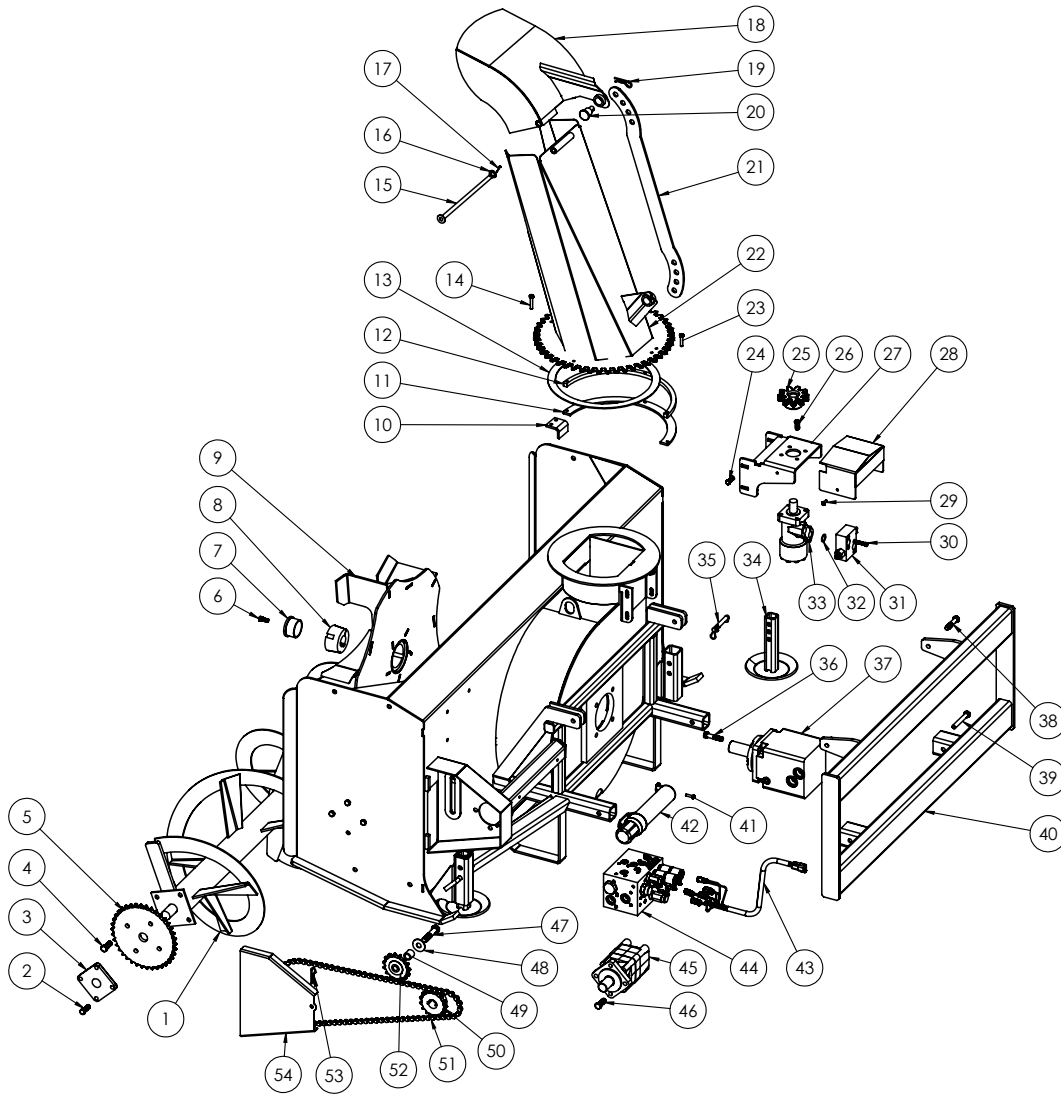
Hydraulic Power Pack



Item #	Part #	Description	Qty
1	H112-M-NA10	Filter Indicator Gauge	1
2	5406-2012	Adapter	1
3	5602-1212	Adapter Tee	1
4	1501-1212	Adapter Elbow	1
5	33626	Relief Valva Return Hose	1
6	33629	Return Hose	1
7	TMF-50-0	suction Strainer	1
8	pifBM90SE2	2" 90 Street Elbow	1
9	pifBSN27	2x7 Blk Std Nipple	1

Item #	Part #	Description	Qty
10	pifBM90E2	2 Black Pipe Elbow	1
11	4404-3232	2" Barb-2" Male Pipe Straight Connector	2
12	53602	Pump Suction Hose	1
13	OL	59-63mm Heavy Duty Hose Clamp	2
14	5000-3232	5000-3232 Female NPT Coupling	1
15	pifbbhh2112	2x1 1/2 Blk Pipe Hex Hd Reducer Bushings	1
16	6401-2424	Male ORB x Male NPT Adapter Straight	1
17	33357	Tank Hydraulic Oil	1
18	33347	Main Frame	1
19	OL	7/16 Lynch Pin	2
20	FF3-4 Male	Flat Face Coupler	1
21	382710	Hitch PIn	2
22	OL	M8 x 16mm Bolt c/w 5/16 lw	4
23	6901-1212	Adapter Elbow	2
24	33627	Main Pressure Hose	1
25	FF3-4 Female	Flat Face Coupler	1
26	VMPK20	Relief Valve	1
27	6900-121	1 1/16 - 12 Male Orb x 3/4 -14 NPSM	1
28	OL	M12 x 1/75 x 20 Bolt c/w 1/2 lw	4
29	519-871187	PTO Assembly	1
30	33628	Pump to Relief Valve Hose	1
31	6400-1220	Adapter	1
32	23597	Hydraulic Pump c/w Gearbox	1
33	OL	5/32 Hair Pin	1
34	33348	Weight Lock Pin	2
35	OL	3/8 PTO PIn	1
36	33364	Stand	1
37	246-102	Magnetic Plug	1
38	OL	Bolt 3/8 x 3 c/w lw, n	4
39	HL91-20	Oil Level Gauge	1
40	33349	Tank Lid	1
41	35476	Lid Gasket	1
42	35475	Lid Oil Tank	1
43	OL	5/16 Sealing Washer	8
44	OL	Bolt 5/16 x 3/4 Hex Flange Serrated	8
45	706-970-115	Filter Breather	1
46	33643	Drop Hose	1
47	OL	#24 Hose Clamp 1 1/2"	1
48	24054	Return-lin Filter	1
49	OL	Bolt 3/8 x 1 c/w lw	3

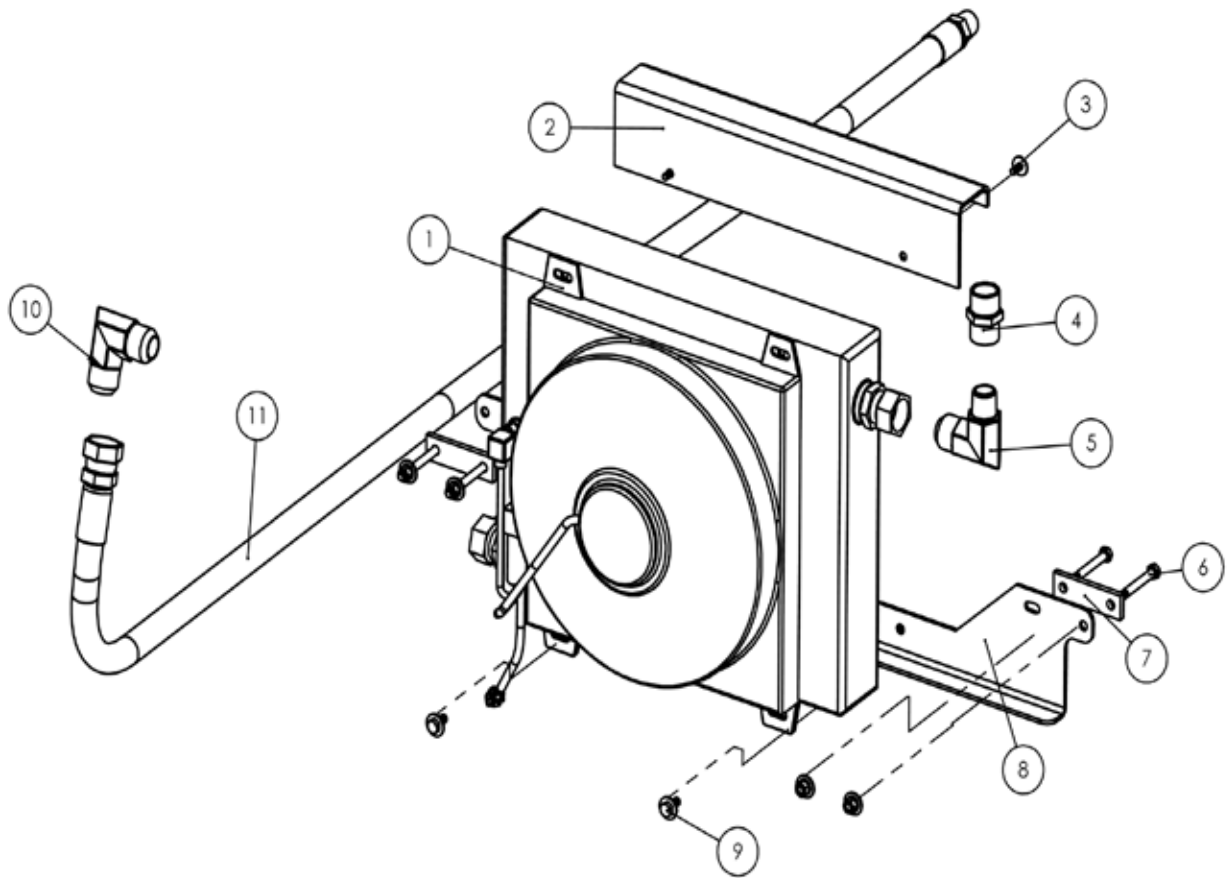
Meteor Loader Blower



Item #	Part #	Description	Qty
1	34741	66" Auger	1
	34743	76" Auger	1
	34744	86" Auger	1
2	OL	Bolt 7/16 x 1 1/2 c/w lw, n	8
3	52730	Bearing	2
4	OL	Bolt 1/2 x 1 1/2 c/w lw, n	4
5	52774	Auger Sprocket	1
6	OL	Bolt 3/8 x 1 c/w lw	1
7	34748	Fan Retainer	1
8	52775	Taperlock Hub	1
9	33316	Fan	1
10	34811	Chute Stop	1
11	21155	Lower Chute Clamp	2
12	21154	Chute Clamp Spacer	2
13	52731	Anti Friction Ring	1

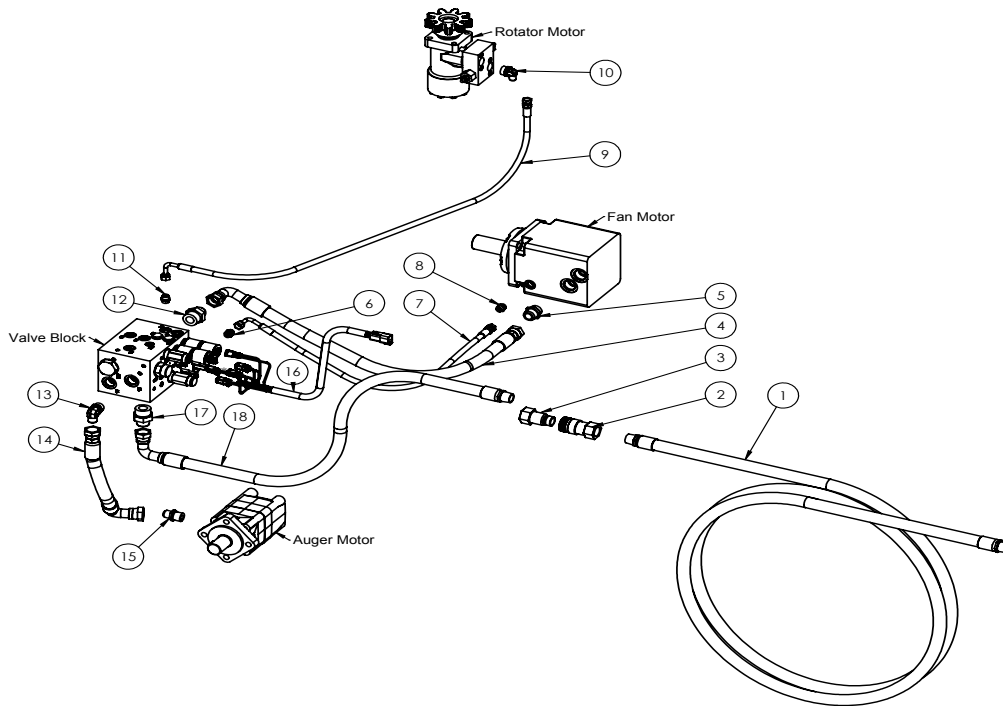
Item #	Item #	Description	Qty
14	OL	Bolt 5/16 x 1 3/4 c/w lw, n	2
15	21139	Deflector Hinge Pin	1
16	OL	1/2" SAE Washer	1
17	OL	1/8x1 Cotter Pin	1
18	34643	Deflector	1
19	OL	Hair Pin 5/32	2
20	21773	Deflector Adjuster Pin	2
21	10701	Deflector Adjuster Bar	1
22	34640	Chute	1
23	OL	Bolt 5/16 x 1 1/2 c/w lw, n	4
24	OL	Bolt 3/8 x 1 1/4 c/w (2)fw, lw, n	4
25	52732	Chute Rotator Gear	1
26	OL	Bolt 3/8 x 1 c/w lw	4
27	34805	Chute Rotator Mount	1
28	34808	Rotator Shield	1
29	OL	Bolt 1/4 x 3/4 c/w lw n	2
30	OL	Socket Head Cap Screw 5/16 x 1 1/2	4
31	52761	Relief Valve	1
32	OL	O Ring 3/32 x .75 id	2
33	52760	Rotator Motor	1
34	21569	Skid Shoe	2
35	OL	1/2" Bent Pin	2
36	OL	Bolt 1/2 x 2 1/4 c/w lw, n	4
37	24056	Fan Motor	1
38	OL	Bolt 1/2 x 2 1/2 c/w lw, n	2
39	OL	Bolt 1/2 x 3 1/2 c/w lw, n	2
40	33339	Loader Bracket Blank (see alternative attachments)	1
41	OL	Flange Bolt 1/4 x 3/4 c/w flange nut	2
42	52649	Manual Tube	1
43	52715	Blower Wiring Harness (Diagram on page 18)	1
44	52759	Valve Block	1
45	24057	Auger Motor	1
46	OL	Bolt 1/2 x 1 1/2 c/w lw	4
47	OL	Bolt 5/8 x 3 c/w fw, lw, n	1
48	OL	Flatwasher 5/8	2
49	33332	Spacer	1
50	34739	Auger Motor Sprocket	1
51	24059	Auger Drive Chain	1
52	52655	Idler Sprocket	1
53	OL	1/8" Hair Pin	1
54	33340	Chain Cover	1

Hydraulic Oil Cooler



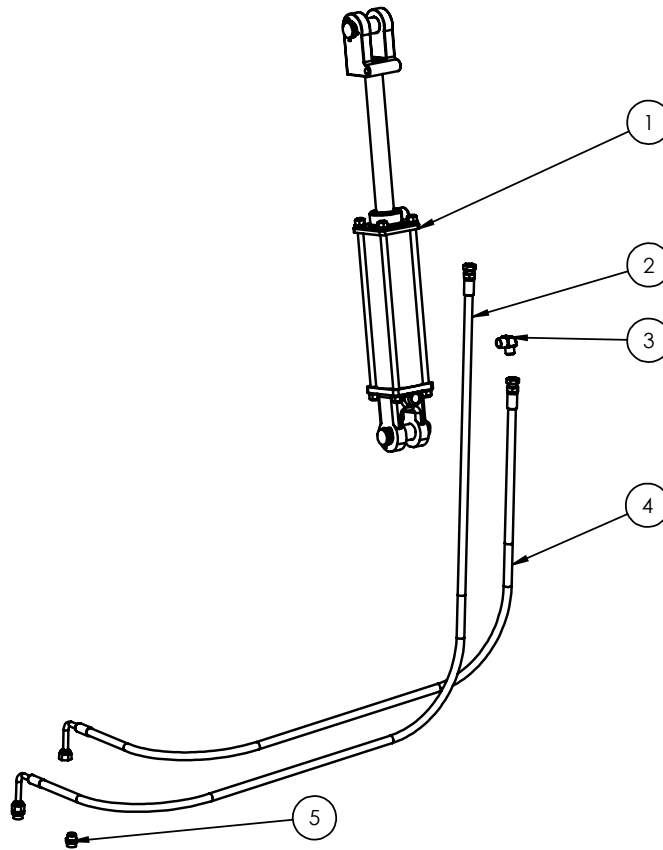
Item #	Part #	Description	Qty
1	hydcnx2MV-12VDC-F60-ASP-SAE16	Oil Cooler Radiator and Fan	1
2	35331	Upper Mount	1
3	OL	M6 x 16mm c/w 1/4 fw	2
4	5000-1212	3/4 x 3/4 Female NPT coupling	1
5	2501-1612	Elbow Adapter	1
6	OL	5/16 x 3 Bolt c/w fw, lw, n	4
7	35333	Clamp	2
8	35332	Lower Mount Bracket	1
9	OL	5/16 x 3/4 Bolt c/w fw, lw, n	2
10	2500-1616	Elbow Adapter	1
11	35337	3/4 x 72 Hose	1

Loader Blower Hydraulic



Item #	Part #	Description	66 Qty	76 Qty	86 Qty
1	33641	Main Tractor Hose	2	2	2
2	FF3-4 Female	Female Flat Face Coupler	3	3	3
3	FF3-4 Male	Male Flat Face Coupler	3	3	3
4	34647	Fan Motor Hose	2	2	2
5	6400-1212	Hyd Adapter	2	2	2
6	6400-0606	Hyd Adapter	1	1	1
7	34661	Case Drain Hose	1	1	1
8	6400-0606	Hyd Adapter	1	1	1
9	34650	Rotator Motor Hose	2	2	2
10	6801-0610	Hyd Adapter	2	2	2
11	6400-0606	Hyd Adapter	2	2	2
12	6400-1216	Hyd Adapter	2	2	2
13	6801-0610	Hyd Adapter	2		
	6400-0810	Hyd Adapter		2	2
14	35179	Auger Motor Hose	1	1	1
	35180	Auger Motor Hose	1	1	1
15	6400-0810	Hyd Adapter	2	2	2
16	52715	Blower Wiring Harness (Diagram on page 18)	1	1	1
17	6400-1216	Hyd Adapter	2	2	2
18	34648	Main Blower Hose	2	2	2

Hydraulic Deflector Parts



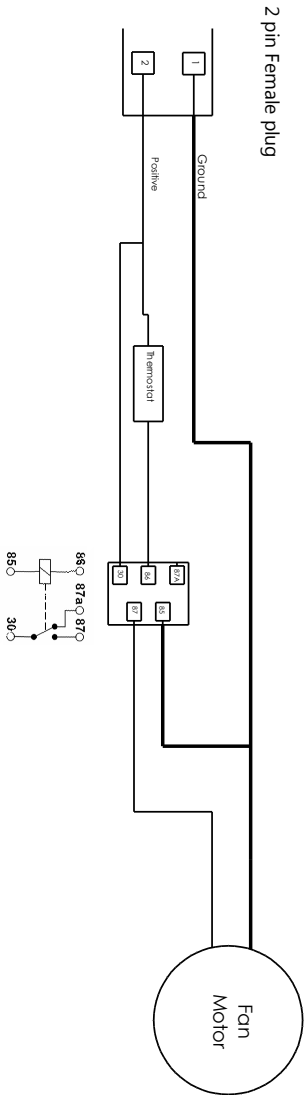
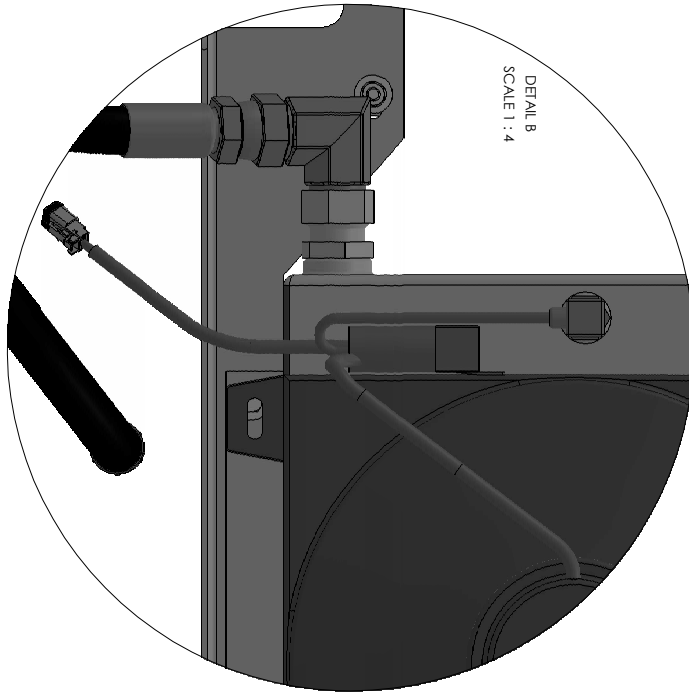
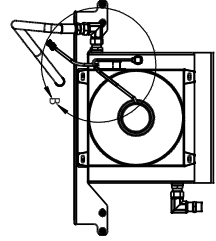
Item#	Part#	Description	Qty.
1	52766	Hydraulic cylinder 2 1/2 x 8	1
2	34652	Long Deflector Hose	1
3	2501-0606	Hyd. Adapter	2
4	34651	Short Deflector Hose	1
5	6400-0606	Hyd. Adapter	2

Note:

Abbreviations used

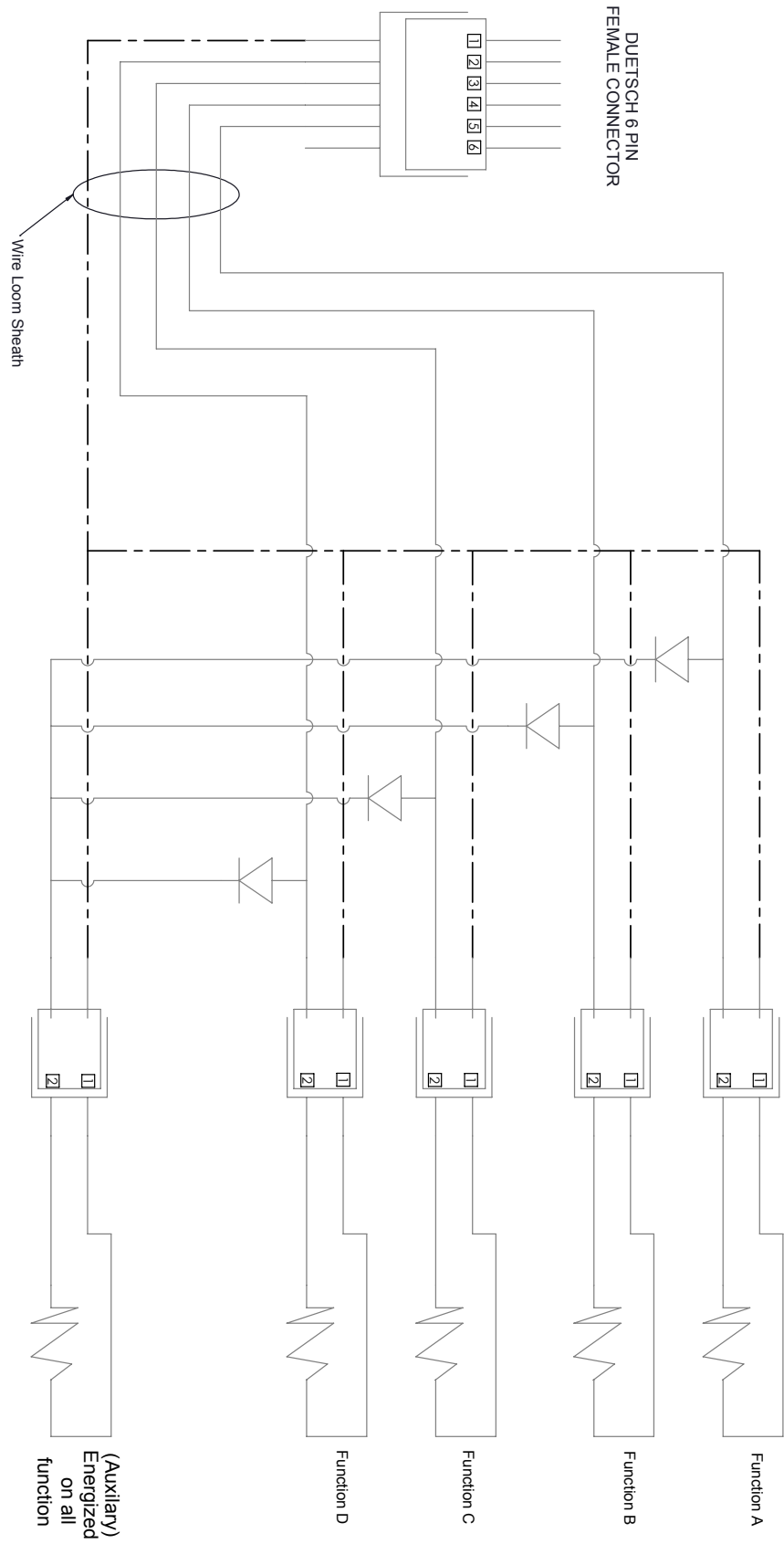
OL - Obtain Locally
c/w - Complete With
lw- Lockwasher
fw - Flatwasher
n - Nut
ln - Locknut

The diagram consists of two parts. The top part is a wiring diagram for a 2-pin female plug. It shows a plug with two pins, labeled 1 and 2. Pin 1 is connected to Ground, and Pin 2 is connected to Positive. The Positive line passes through a Thermistor before reaching a terminal block. The terminal block has four terminals: 60, 61, 50, and 51. Wires 58 and 87 are connected to terminals 60 and 61, respectively. Wires 85 and 30 are connected to terminals 50 and 51, respectively. The bottom part is a detail view of the plug assembly, showing the internal wiring and the plug housing. The detail view is labeled 'DETAIL B' and 'SCALE 1 : 4'.

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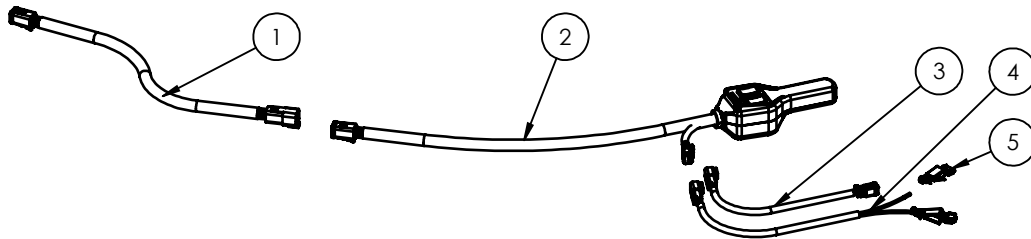
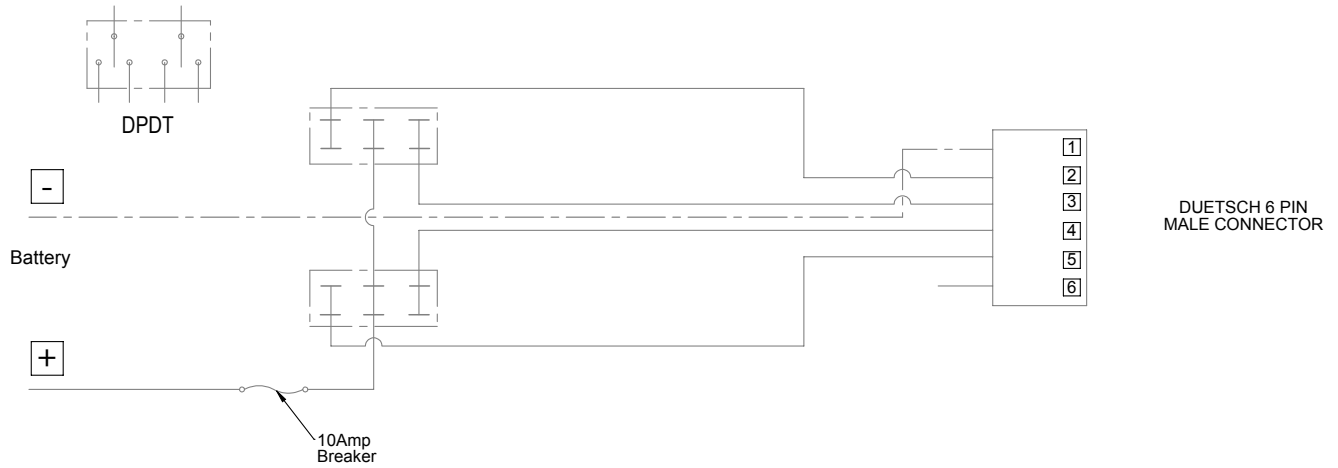
Valve Wires

Blower Wiring Diagram



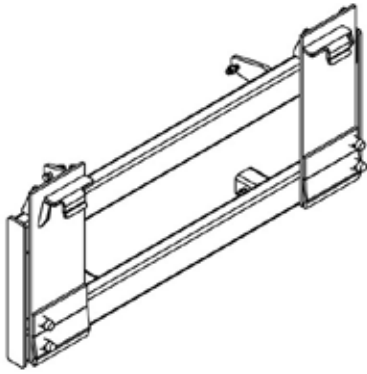
Hand Controller Wires

Controller Wiring Diagram

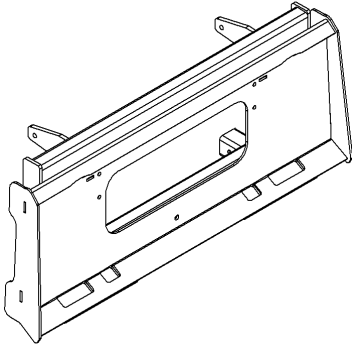


Item #	Part #	Description	Qty
1	52771	Controller Extention Wire	1
2	52739	Controller	1
3	52772	Battery Cable Extention	1
4	52743	Battery Wire	1
5	52769	Battery Clamps	2

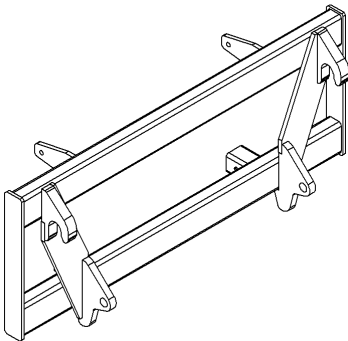
Loader Adapter Alternative Attachments



JD Adapter
35458



Skid Steer Adapter
24150



EURO Adapter
51367

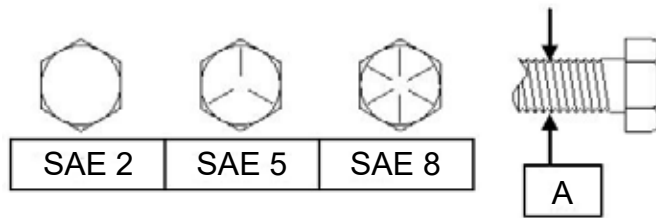
Bolt Torque

As used on this machine

- Bolt torque table shown below gives torque values for various bolts used.
- This chart is for non-lubricated threads.
- Replace with same strength bolt.

Torque Specifications. Torque values are identified by their head markings.

Diameter	SAE 2		SAE 5		SAE 8	
"A"	ft-lb	N.m	ft-lb	N.m	ft-lb	N.m
1/4	6	(8)	8	(11)	12	(16)
5/16	11	(15)	17	(24)	25	(33)
3/8	20	(27)	31	(42)	44	(59)
7/16	32	(43)	49	(67)	70	(95)
1/2	49	(66)	76	(105)	105	(145)
5/8	97	(130)	150	(205)	210	(285)
3/4	144	(195)	265	(360)	375	(510)
7/8	165	(225)	430	(585)	605	(820)
1	250	(340)	645	(875)	910	(1230)
1 1/8	355	(480)	795	(1080)	1290	(1750)
1 1/4	500	(680)	1120	(1520)	1820	(2460)
1 1/2	870	(1180)	1950	(2640)	3160	(4290)



Allen head cap screw are similar to SAE 8 quality

These torques are for reference only. Not all these sizes and grades are necessarily used in this machine. Bolts that are used as a pivot or hinge have to be used with a locknut, therefore only tighten enough to secure the bolt and still allowing the part to rotate freely.

Maintenance

Daily *(or for each use)*

- Inspect the main hydraulic lines for signs of wear and abrasion.
- Check Oil Level in Reservoir.
- Inspect Hydraulic Couplers for connections.
- Inspect electrical connections.
- Check Auger Drive Chain tension
- Grease PTO joints

Occasionally

Check Filter Indicating Gauge for the condition of the return filter.

Replace element if required.

Annually

- Drain tank into clean container and check inside of tank for signs of rust or moisture.
- Check the magnetic Drain Plug for iron contamination.
- If the inside of tank was contaminated, dispose of the oil in a environmentally safe manner.
- Clean the inside of any loose scale
- Check the Suction screen, clean if necessary.
- Inspect Suction Screen for rips or holes.
- Change Return Line Filter.
- Clean Tank Breather.
- Apply a small bead of silicon gasket on the top tank flange and replace top lid
- Refill with hydraulic oil

Storing

Store in a dry, firm place

Brush oil on auger drive chain

Inspect for loose or worn parts, repair or replace

Hydraulic Oil ----- Kendal 4 Seasons AW32 or equivalent

Hydraulic Return Line Filter Element ----- Ikron SP010 or equivalent

Grease ----- Multi Purpose



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