

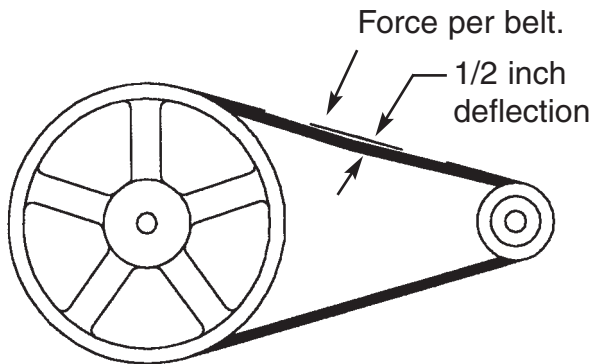
**OBSERVE ALL SAFETY
PRECAUTIONS!**

V-BELT TENSION

5005 - force = 8 to 11 pounds

5006 - force = 8 to 11 pounds

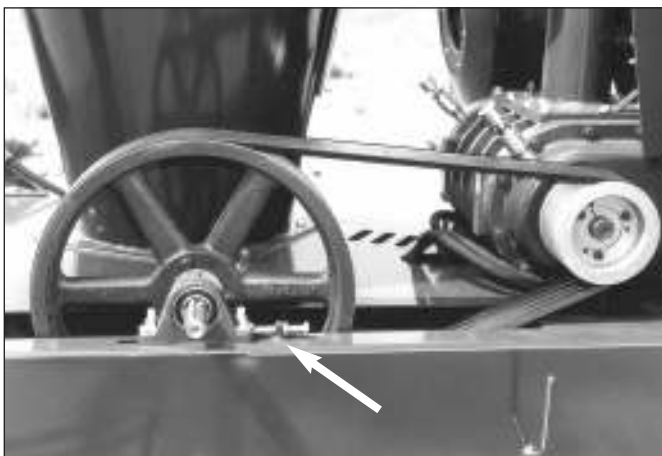
6006 - force = 11 to 15 pounds



Check belt tension after initial one (1) to two(2) hours of operation and daily thereafter.

V Belt tension testers are available at most belt service centres.

1. Place PTO and hydraulic controls in neutral and shut-off engine. Disconnect the PTO shaft from the tractor.
2. Unlatch belt shield cover and open cover.



3. Loosen jam nut on adjuster bolts and loosen the bearing mounting bolts.

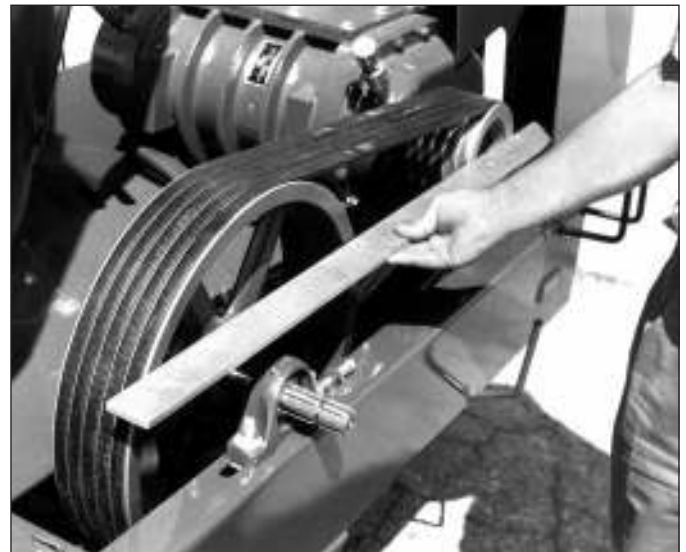
Maintenance

4. Use the adjusting bolts to move the pulley assembly to apply the proper tension to the belts and also to align the pulleys with each other.



CAUTION

Machine is shown with guard open for illustrative purposes only. Do not operate machine with guard open.



5. Place a straight edge across the faces of the two pulleys. Maximum allowable misalignment is 1/16" (2mm) on any of the pulley edges. Adjust as required.
6. Be sure the belt tension is correct.*
7. Tighten bearing mount bolts and jam nuts.
8. Close and latch belt cover.

*** DO NOT MIX OLD AND NEW BELTS!**

To extend the life of your bearings and shafts we recommend that you replace all 5 belts when one or more are frayed or broken. Older belts which have stretched over time require a different setting than new belts. To get the right tension on the old belts you will put too much tension on the new belt(s) putting undue strain on shafts and bearings!

Maintenance

AIRLOCK TIPS

Check Airlock Tips clearance when there is a noticeable drop in capacity of the Conveyair.

If clearance exceeds 0.38 mm (0.015") adjust as shown below.

a. Checking clearance:

Disengage PTO and hydraulic power and shut off engine. Wait for all moving parts to stop.

2. Relieve the pressure on the hydraulic lines and disconnect from tractor.

3. Remove hydraulic lines from the airlock drive motor to allow rotation of the airlock.



CAUTION

High pressure fluids can penetrate the skin and cause infection and toxic reaction

4. Open the inspection door on the receiver tank. Use a feeler gauge to check the clearance between the tips and the shell.

b. Airlock Tip Adjustment

1. Remove the connector on the air line between the BPS and the receiver tank.

2. Attach an overhead hoist to the receiver tank.



3. Remove the eight bolts securing the receiver tank to the airlock mount plate. Remove the receiver tank from the frame.



WARNING



ROTATING AIRLOCK HAZARD
To prevent serious injury or death from airlock blades:

1. Do not place hands in tank when airlock is turning.
2. Shut-off engine and wait for moving parts to stop before opening door to adjust, service or unplug.

4. Position tip next to top of shell.

5. Loosen slightly the 5 bolts attaching the tip to the blade of the airlock.

6. Move the tip until you have 0.006" (0.15 mm) clearance between tip end and clockwise side of shell.

7. Tighten the bolts and torque to 34-40 Nm (20-25 ft. lbs.)

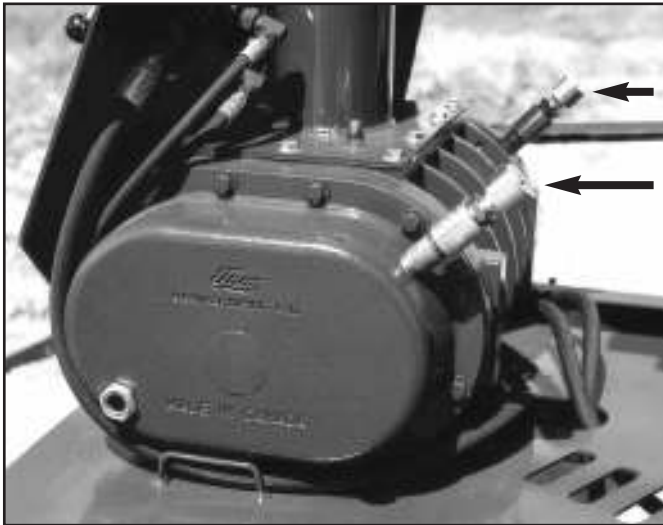
8. Rotate the rotor clockwise to ensure that there is no contact between the tips, end plates and the shell. Adjust if there is contact.

9. Mark the tip with a felt pen as done and proceed with remaining tips till all have been adjusted.

10. Replace receiver tank and check that all connections are airtight.

RESERVOIR BREATHER (Clean every 50 hours)

Clean breathers allow the pressure in the oil reservoir to equalize with the outside as the temperature changes.

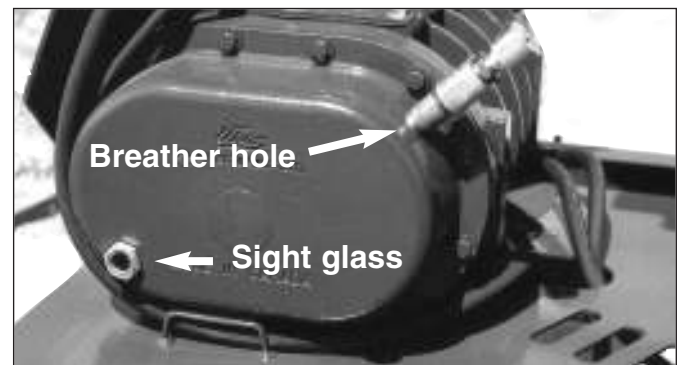


1. Remove breather from the top of the reservoirs.
2. Soak/Wash in a good grade of solvent.
3. Dry with an airhose and re-install.

AIR PUMP OIL RESERVOIR (Change oil every 100 hours, more often if conditions are very dusty).



1. Place small pan under the drain plug and remove plug. Drain for 10 minutes.
2. Re-install and tighten the drain plug.



3. Remove breather and add oil through the breather hole. **Fill to center of the sight glass** and re-install breather.



IMPORTANT

- Overfilling causes heating from the oil churning.
- Underfilling causes heating from lack of lubrication.

4. Repeat on other reservoir.

Maintenance

BPS (Blower Protection System)

The air which is sucked from the receiver tank and drawn toward the air-pump contains dust which is harmful to the pump. This dust is trapped by the BPS system and collected in the dust canister. The amount of dust collected depends on the amount of dust and fines in the grain being moved.



Remove and empty dust canister regularly. Do not allow to overfill. When canister is three quarters full it should be considered full!

NOTE

If machine is allowed to overfill (plug) -

- Remove screen on top of BPS and clean if required and reinstall.

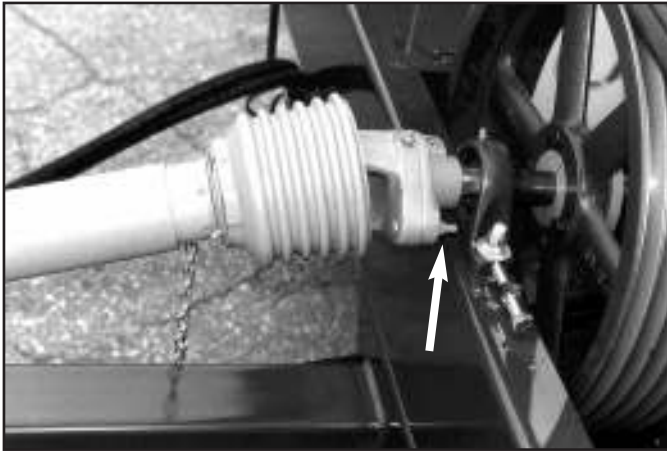


DO NOT strike the screen with any hard object as damage to the screen will diminish its effectiveness.

- Empty canister and also allow any grain which may have accumulated in BPS to run out.

Refer to unplugging instructions under OPERATION on page 16.

SHEAR PIN



A shear pin is provided in the PTO shaft to protect the drive system during an overload.

Changing the Shear Pin

1. Place all controls in neutral, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before dismounting.
2. Disconnect the PTO shaft from the tractor and lay to the side to provide maximum clearance for the shear bolt.
3. Carefully remove remaining shear bolt using a hammer and punch if necessary. Do not enlarge the holes.
4. Install the new shear bolt and tighten.



IMPORTANT

These shear bolts are specially designed to provide protection for the drive system. Do not install just any bolt, use genuine Thor parts.

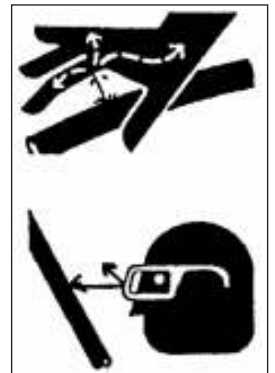
HYDRAULIC SAFETY

1. Make sure that all components in the hydraulic system are kept in good condition.
2. Replace any worn, cut, abraded, flattened or crimped hoses and metal lines.
3. Before applying pressure to the system, make sure all components are tight and that lines, hoses and couplings are not damaged.



Do not use tape, clamps or cement to repair hydraulic lines. The hydraulic system operates under high pressure, creating a hazardous unsafe condition when such repairs fail suddenly.

4. Wear proper hand and eye protection when searching for a high pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to isolate and identify leak.



5. If injured by a concentrated high pressure stream of hydraulic fluid, seek attention immediately. Serious infection or toxic reaction can develop from hydraulic fluid piercing the skin surface.



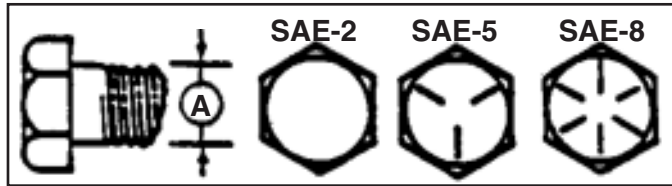
WARNING

High pressure fluids can penetrate the skin and cause infection and toxic reaction.

Bolt Torque

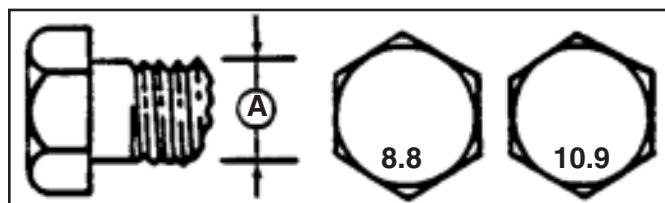
Check tightness of bolts periodically, using bolt torque chart as a guide. Always replace hardware with the same strength bolt.

English Torque Specifications



Bolt Dia. "A"	Bolt Torque*					
	SAE 2		SAE 5		SAE 8	
	N.m	(lb-ft)	N.m	(lb-ft)	N.m	(lb-ft)
1/4"	8	(6)	12	(9)	17	(12)
5/16"	13	(10)	25	(19)	36	(27)
3/8"	27	(20)	45	(33)	63	(45)
7/16"	41	(30)	72	(53)	100	(75)
1/2"	61	(45)	110	(80)	155	(115)
9/16"	95	(70)	155	(115)	220	(165)
5/8"	128	(95)	215	(160)	305	(220)
3/4"	225	(165)	390	(290)	540	(400)
7/8"	230	(170)	570	(420)	880	(650)
1"	345	(225)	850	(630)	1320	(920)

Metric Torque Specifications



Bolt Diameter "A"	Bolt Torque*			
	8.8		10.9	
	N.m	(lb-ft)	N.m	(lb-ft)
M3	.5	(.4)	1.8	(1.3)
M4	3	(2.2)	4.5	(3.3)
M5	6	(4)	9	(7)
M6	10	(7)	15	(11)
M8	25	(18)	35	(26)
M10	50	(37)	70	(52)
M12	90	(66)	125	(92)
M14	140	(103)	200	(148)
M15	225	(166)	310	(228)
M20	435	(321)	610	(450)
M24	750	(553)	1050	(774)

* Torque value for bolts and capscrews are identified by their head markings.

Torque values indicated above are valid for non-greased or non oiled threads and heads unless otherwise specified. Do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

HYDRAULIC FITTING TORQUE

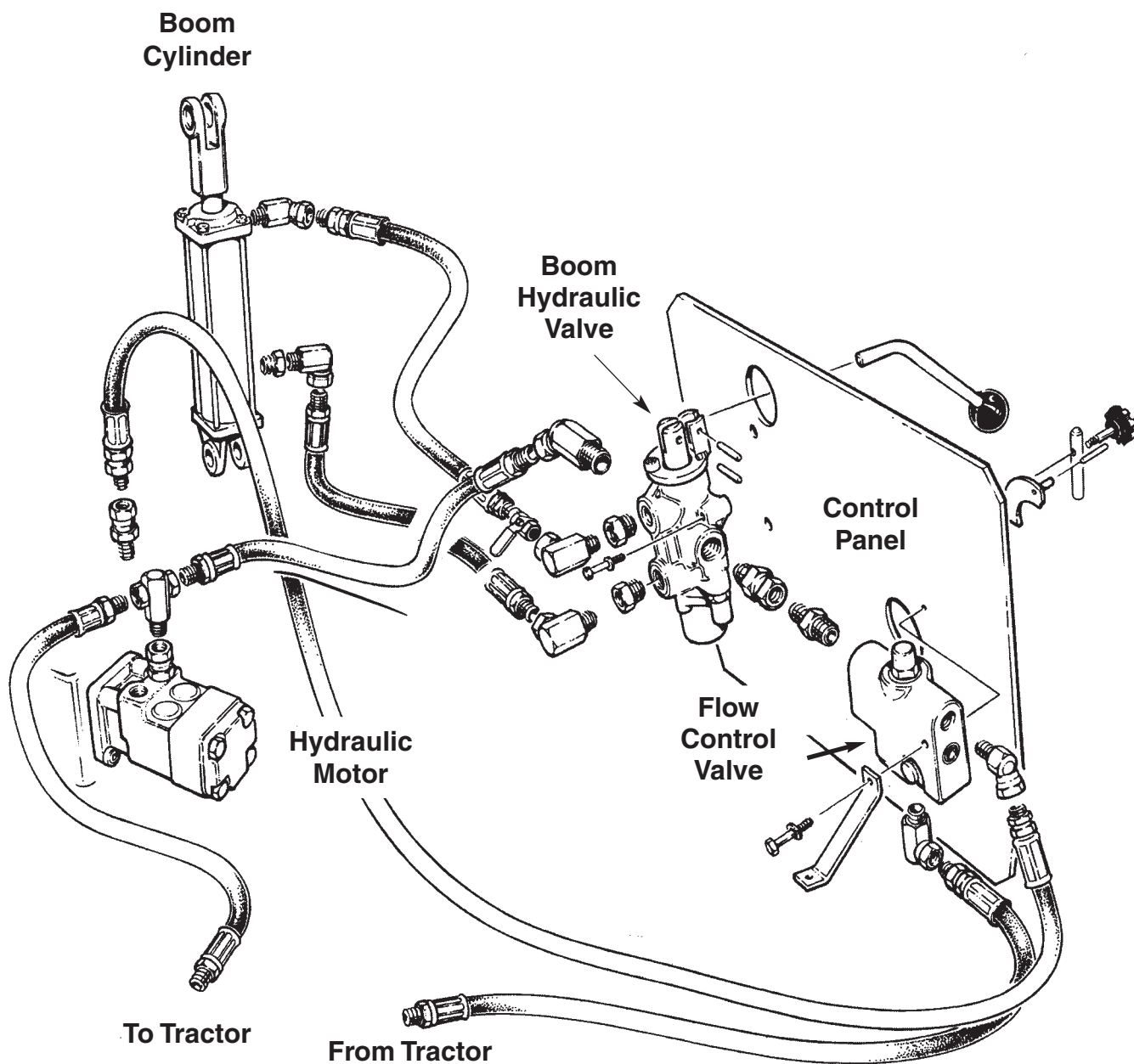
Tighten Flare Tube Fittings*

1. Check flare and flare seat for defects that might cause leakage.
2. Align tube with fitting before tightening.
3. Lubricate connection and hand tighten swivel nut.
4. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and with the second tighten the swivel nut to the torque shown.

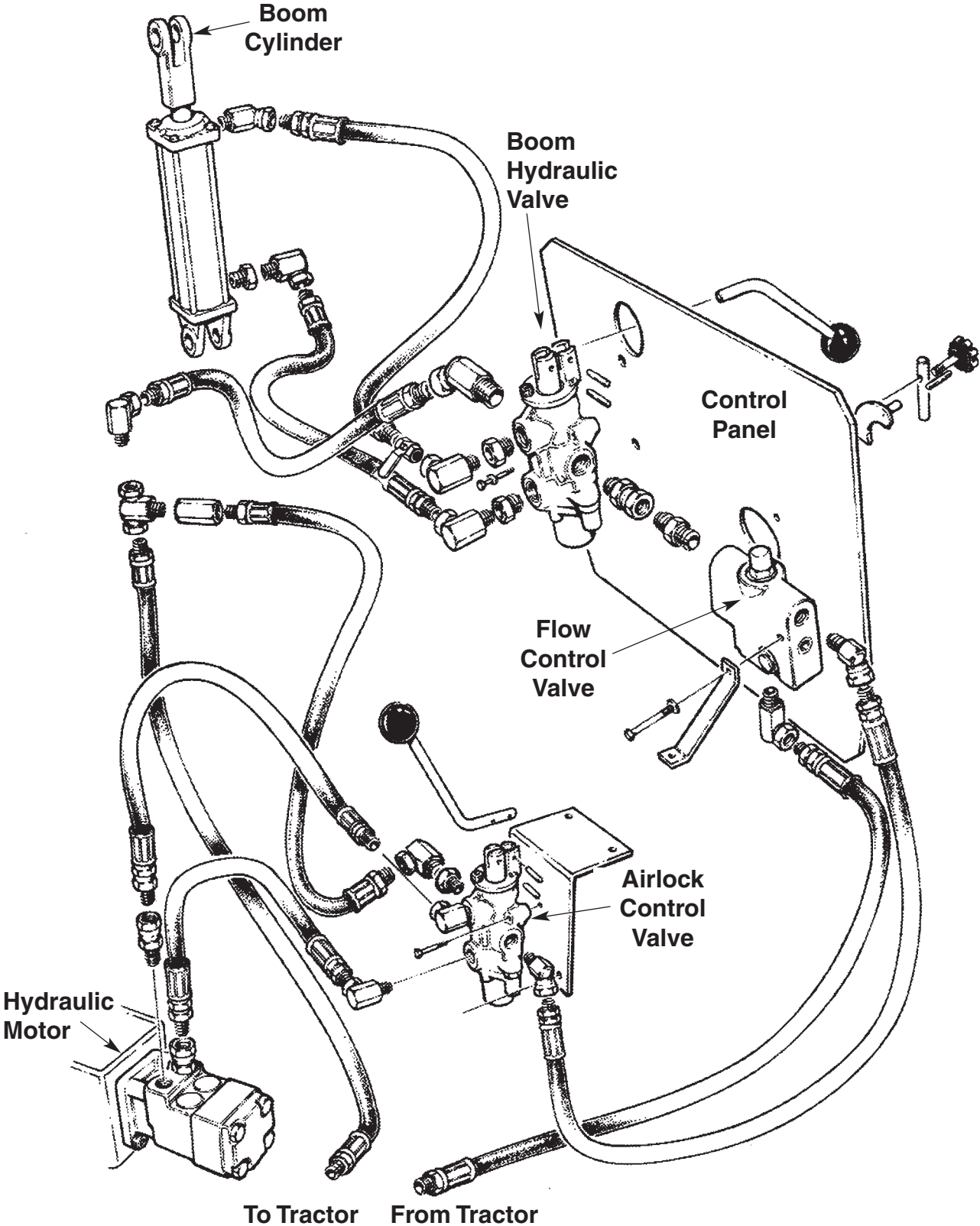
Tube Size OD	Nut size Across Flats	Torque Value*	Recommended Turns to Tighten (After finger Tightening)	
			Flats	Turns
in.	in.	N.m (lb-ft)		
3/16	7/16	8 (6)	1	1/6
1/4	9/16	12 (9)	1	1/6
5/16	5/8	16 (12)	1	1/6
3/8	11/16	24 (18)	1	1/6
1/2	7/8	46 (34)	1	1/6
5/8	1	62 (46)	1	1/6
3/4	1 1/4	102 (75)	3/4	1/8
7/8	1 3/8	122 (90)	3/4	1/8

* The torque values shown are based on lubricated connections as in reassembly.

Hydraulic Schematic Standard

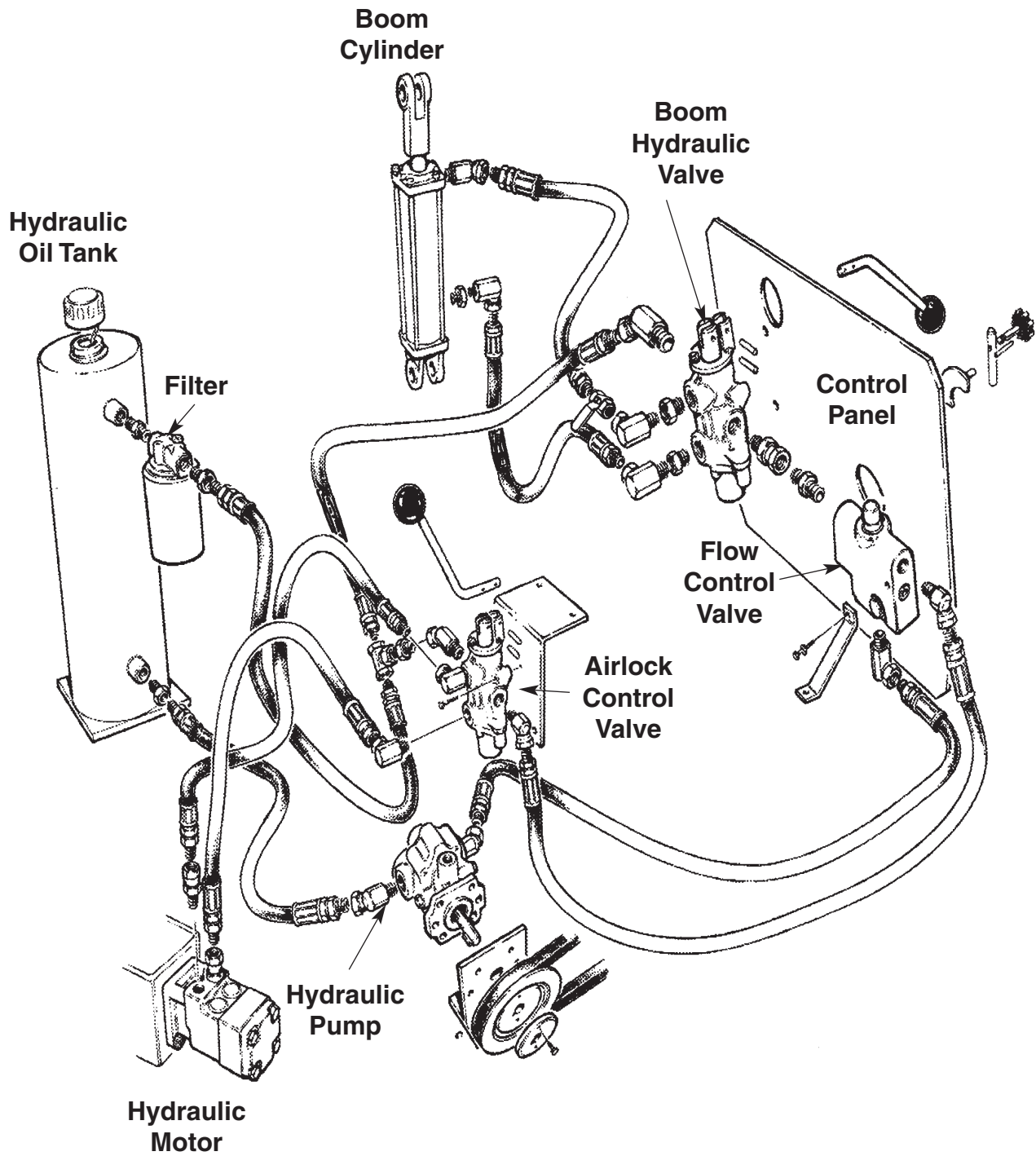


Hydraulic Schematic With Reverse Option



Hydraulic Schematic

Self-contained with reverse option



Troubleshooting

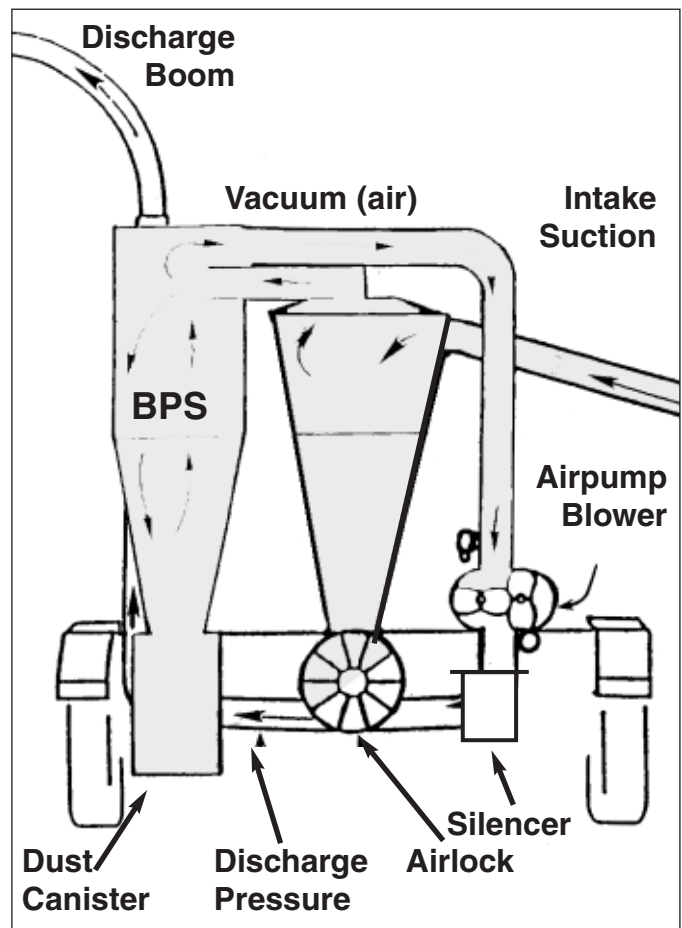
The heart and lungs of the Conveyair Grain Vac are the airlock and the blower (air pump). Both components must be operating at their recommended speed to obtain maximum efficiency from the machine.

The blower is driven by a belt and pulley system from the PTO on a tractor. The airlock is driven by a hydraulic motor powered by the hydraulic system on the tractor or by a self contained hydraulic system.

If you encounter a problem that is difficult to solve, even after having read through this trouble shooting section, please call your local dealer or the factory. **Before you call, please have this Operators Manual and the serial numbers from your Grain Vac ready.**

In North America call
1-800-582-3944

Other parts of the world
1-204-982-8350



PROBLEM	CAUSE	SOLUTION
Low capacity	Tractor PTO runs slow.	Speed up tractor PTO to rated RPM for the model.
	540 Instead of 1000 RPM.	Change tractor or PTO speed shaft.
	Belts are slipping.	Tighten belts.
	Airlock runs too fast.	Slow down airlock speed until grain builds up to the level of inspection door.
	Improper air intake.	Adjust air intake.
	Improper use of nozzle.	Use full bin nozzle for larger piles and full bins. Use cleanup nozzle with flair for cleanup only. Do not submerge airslide in grain.
	Air leaks - Intake.	Check for worn coupler levers or missing coupler gaskets.
	Air leaks - Machine.	Check BPS, receiver section, and airlock gaskets.
		Check pressure and vacuum relief valve.
		Check clamps on airline between receiver tank and BPS and between BPS and blower.

PROBLEM	CAUSE	SOLUTION
Low capacity.	Improper piping.	Keep suction lines as short as possible. Minimize bends. Use straight length of pipe wherever possible. Use the poly hose for clean up only!
	Airlock tip clearance high.	Adjust airlock tips. (See PAGE 24)
	Airlock end plate clearance.	If rotor to end plate clearance is more than 0.015" consult the dealer or factory.
Excessive grain damage.	Too much air intake.	Adjust air intake nozzle.
	PTO running too fast.	Throttle down tractor.
	Damaged tubing or flexline.	Repair or replace.
	Insufficient grain supply.	Reposition nozzle.
Pulsation	Insufficient air at intake.	Open slide until grain flow becomes even.
	Airlock turning too fast.	Adjust airlock speed until grain is at level of the inspection door.
	Improper piping.	Replace steel flex or poly hose with rigid tubing wherever possible.
	Suction line too small.	Use proper line size.
	PTO running too slow .	Increase PTO RPM.
	Belts are slipping.	Tighten belts.
	Excessive airlock tip clearance.	Adjust airlock tips.
	Airlock turning too slow.	Adjust airlock speed until grain is at the proper level on the inspection door.
	Obstruction in suction.	Shut down machine and clear line obstruction.
BPS plugs	Airlock turning too slowly.	Increase airlock speed until grain is at the proper level on the inspection window.
	Airlock turning too fast.	Decrease airlock speed until the grain is at the proper level on the inspection door.
	Airlock not turning.	Check for proper hydraulic hook-up. Check for and remove obstruction airlock.

Troubleshooting

PROBLEM	CAUSE	SOLUTION
Airlock not turning at all.	Flow control valve wrong.	Reset flow control.
	Tractor hydraulic not properly engaged.	Reset tractor hydraulics.
	Obstruction in airlock.	Shift tractor hydraulic lever from FORWARD to REVERSE and back TO FORWARD. Repeat if obstruction does not clear up. If obstruction does not clear up, shut off tractor and grain vac, open inspection door and remove cause of obstruction.
Hydraulic oil heating up excessively.	Faulty tractor hydraulics.	Use different tractor.
	Low oil level.	Add oil.
Excessive wear on air lines.	Improper piping.	Minimize bends.
	Too much air flow.	Adjust airslides and airlock speed.
	Insufficient grain supply.	Reposition intake nozzle. Open grain supply doors.
	Excessive PTO speed.	Operate at proper recommended PTO speed.

Prior to storage we recommend that you thoroughly inspect your Conveyair.

1. Replace any worn or damaged components.
2. Wash and clean the machine. **After cleaning, run machine at low idle for 2 -3 minutes to dry the internal components.**



3. While machine is running at an idle, open the cleaning port and inject a cleaning agent such as WD40 for 45 - 60 seconds. This will coat the inside of the air pump to help prevent rusting.

4. Lubricate all grease points. Make sure all grease cavities have been filled with grease to remove any water residue.



5. Retract and stow all components and accessories and install cover over the boom pivot. (Keeps out dirt and small animals).

6. Inspect all hydraulic hoses, couplers, fittings and lines. Tighten any loose fittings. Replace any hose that is badly cut, nicked, abraded or is separating from the fitting.

7. Inspect, clean or empty the BPS.

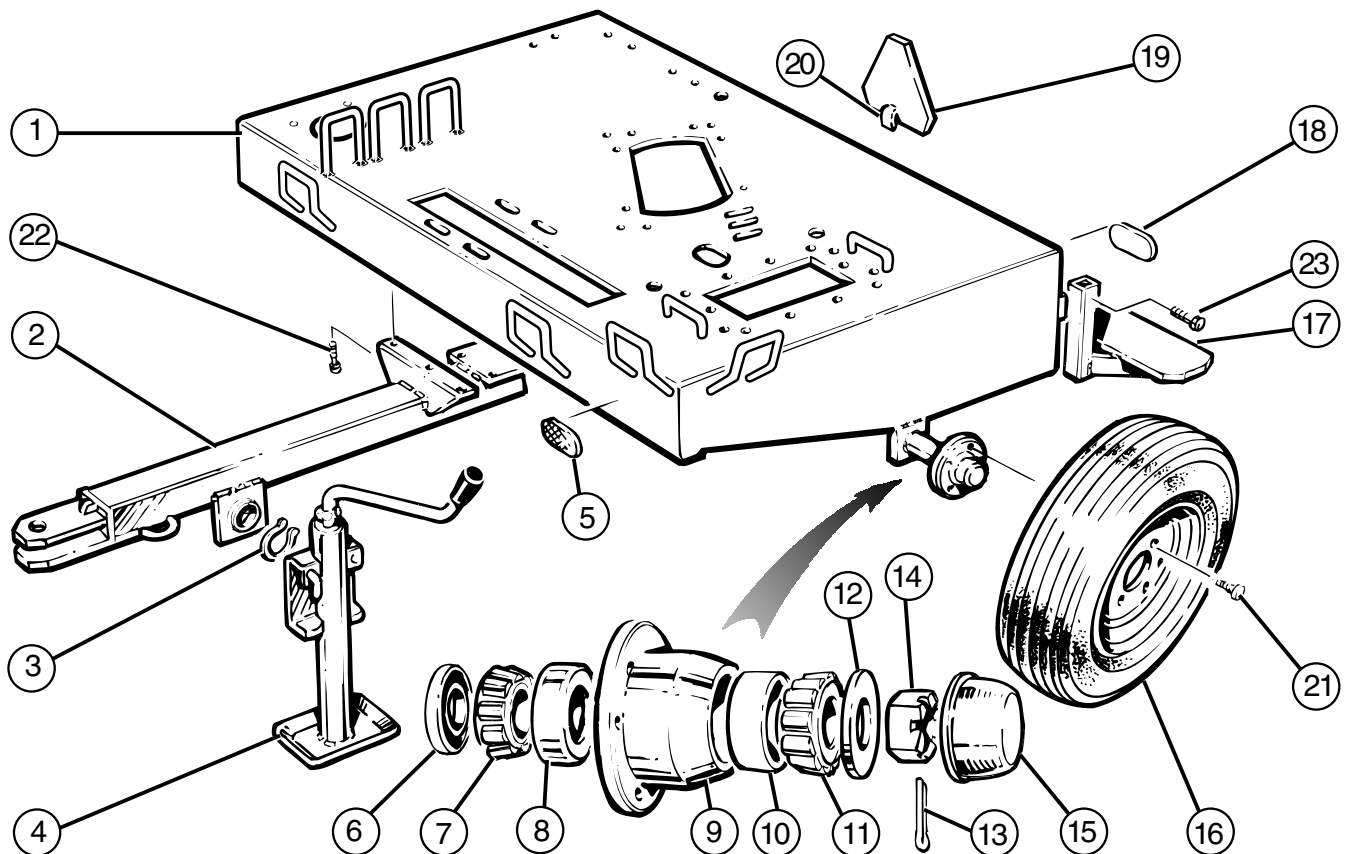
8. Check the fluid level in the air pump oil reservoirs. Add oil as required.

9. Touch up all paint nicks and scratches to help prevent rusting.

10. For storage, select an area which is dry and level. Make sure unit is firmly blocked and will not tip or sink into a soft area. Place a plank under jack for added support.

ASSEMBLY	PARTS PAGE NO.
FRAME & WHEEL ASSEMBLY	37
RECEIVER TANK & DUST COLLECTOR	38
AIRLOCK & BLOWER ASSEMBLIES	39
BOOM & CYCLONE	40
BELT DRIVE	41
STEEL FLEX HOSE & COUPLERS	42
CLEAN UP HOSE & COUPLERS	43
CLEAN UP & BIN NOZZLES	44
DRIVESHAFT	45
STANDARD HYDRAULIC SYSTEM	48 & 49
HYDRAULIC SYSTEM WITH REVERSE OPTION	50 & 51
SELF CONTAINED HYDRAULIC SYSTEM	52 & 53

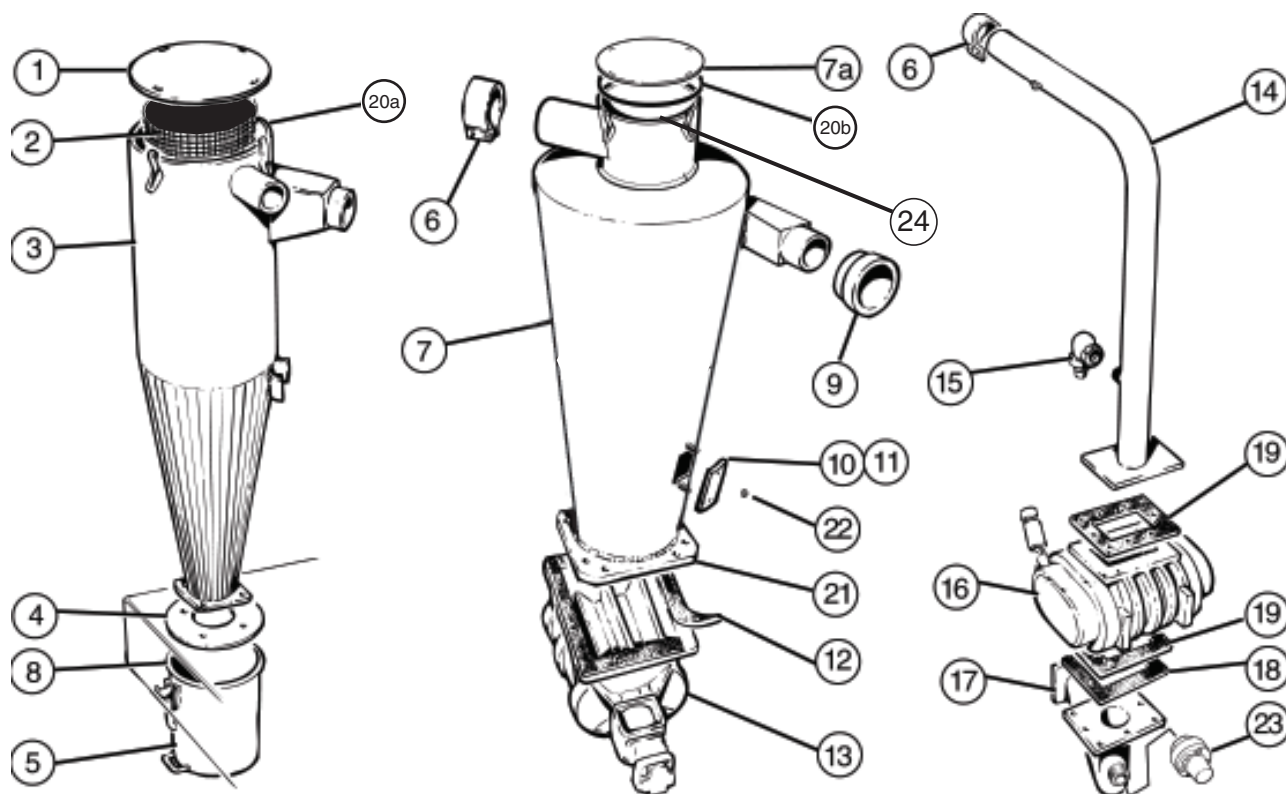
When ordering parts specify: model, size, serial number and ordering number.



Item No.	Ordering No.		No. Req.d	Description
	Ultima 5	Ultima 5i Ultima 6		
1	11600	11600	1	Main frame
2	30500	30500	1	Hitch assembly
3	30023	30023	1	Snap ring
4	30001	30001	1	Jack
5	60014	60014	2	Amber reflector
6	20024	20024	2	Wheel seal
7	20025	20025	2	Bearing cone inner
8	20026	20026	2	Bearing cup inner
9	30026	30026	2	Wheel hub
10	20027	20027	2	Bearing cone outer
11	20028	20028	2	Bearing cup outer
12	56046	56046	2	Flat washer 3/4"
13	60012	60012	2	Cotter key
14	30027	30027	2	Castle nut
15	30029	30029	2	Dust cap
16	30512	30512	2	Tire/rim assembly, P205 x 15
17	11540	11620	1	Boom support
18	60015	60015	2	Red reflector
19	68503	68503	1	Slow Moving Vehicle sign
20	11529	11529	1	Slow Moving Vehicle spade 112409
21	30028	30028	10	Wheel bolt
22	-	-	7	3/8" x 1 1/4" Gap screw, flat washer & lock nut
23	-	-	6	1/2" x 3" Gap screw, flat washer & lock nut
24	30003	30003	2	Hub Assembly

Receiver Tank & Dust Collector

REPAIR PARTS LIST

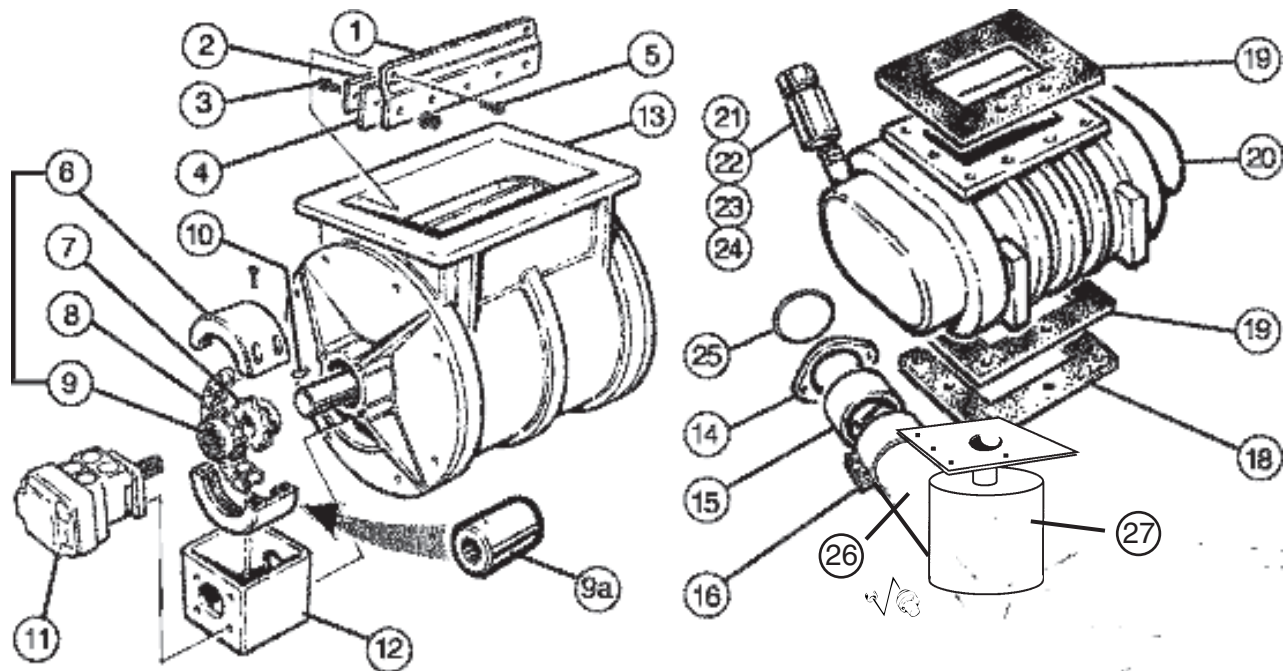


Item No	Ordering No.		No. Req'd	Description
	Ultima 5 Ultima 5i	Ultima 6		
1	19504	19504	1	Dust cyclone top plate
2	19514	19514	1	Screen, Blower protection system
3	19500	19500	1	Dust cyclone
4	15525	15525	1	Ring, pail seal
5	19512	19512	1	Dust cyclone pail
6	26011	26011	2	5" Seal clamp
7	15540	15640	1	Top Loading Receiver tank without coupler
7a	15632	15632	1	Receiver tank top plate
8	64510	64510	1	Pail gasket, 825 - 045 - 44 inches
9	26007	26052	1	Female coupler
10	64001	64001	1	Foam gasket - 1/4 in x 1 in x 28 inches
11	15520	15520	1	Window receiver
12	64504	64504	1	Foam gasket - 70 inches
13	10525	10627	1	Airlock - see page 39
14	45505	45505	1	Airline blower inlet
15	26119	26119	1	Vacuum relief valve
16	14400	14400	1	Blower complete with Oil filter - see page 39
17	45630	45630	1	2 Piece airline blower output - see page 39
18	64030	64030	1	Gasket Blower, 5.3 1/8
19	64501	64501	2	Blower Gasket, 1/16 rubber
20a	64500	64500	-	Rubber channel, 1/4 x 3/8 - 58"
20b	64500	64500	-	Rubber channel, 1/4 x 3/8 - 38"
21	64503	64503	1	Foam gasket, 60 inches
22	-	-	2	1/4" Flat washer & lock nut
23	26013	26013	1	Pressure Relief Valve
24	15656	15656	1	Screen Main ReceiverTank (anti-plug)

REPAIR PARTS LIST

Airlock & Blower Assemblies

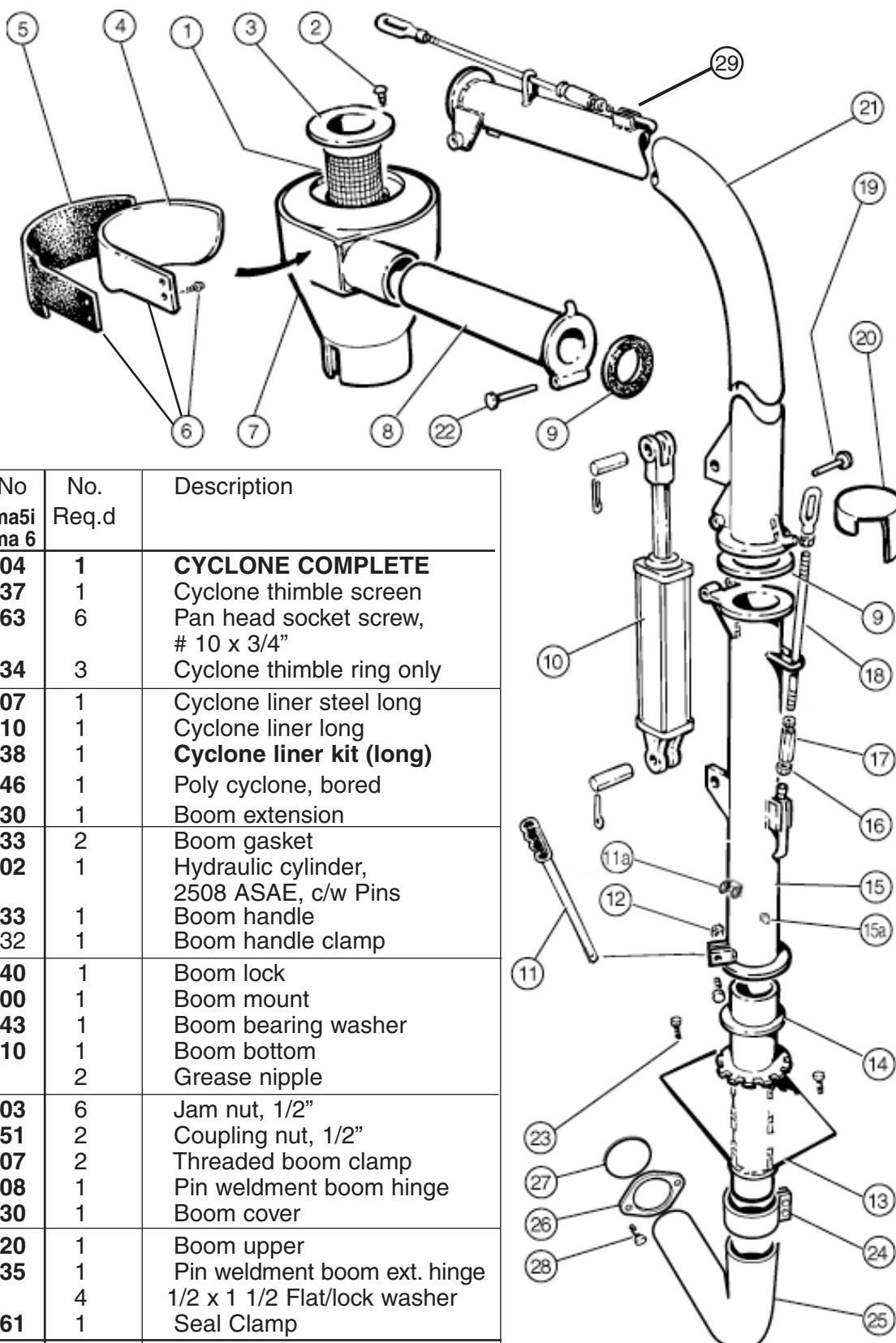
ISSUE 09-03
Replaces 03-0101



Item No	Ordering No.		No. Req'd	Description
	Ultima 5	Ultima 5i Ultima 6		
0	10525	10627	1	Airlock assembly, complete with motor
1	10630	10630	1	Wiper
2	10631	10631	1	Retainer wiper
3	-	-	3	Bolt, 1/4" x 1 1/2" complete with flat/L washer & nut
4	10632	10632	1	Flex tip wiper
5	-	-	2	Bolt, 1/4" x 1 1/2" complete with flat/L washer & nut
6	20011	20011	1	Chain coupler cover (to mid 1997)
7	20007	20007	1	Chain coupler sprocket (to mid 1997)
8	20010	20010	1	Chain - chain coupler (to mid 1997)
9	10021	10021	1	Chain coupler sprocket - splined (to mid 1997)
9A	10513	10513	1	Coupler weldment (Mid 1997 models and up)
10	20006	20006	1	Woodruff key
11	22228	22228	1	Hydraulic motor - White
12	10017	10017	1	Bracket for mounting airlock motor
13	10535	10635	1	Airlock, less motor and coupler
00	14400	14400	1	Blower complete with breather vents
14	45503	45603	1	Flange airlock inlet
15	45629		1	Extension blower output tube 5"
15		26044	1	Reducer - 6" to 5"
16	26011	26011	1	Seal clamp, 5"
18	64030	64030	1	Gasket, 5" x 3 1/8"
19	64501	64501	2	Gasket, 1/16" rubber
20	14400A	14400A	1	Blower less breathers
21	22136	22136	2	Galvanized steel nipple, 3/4" x 2 1/2"
22	22044	22044	2	Galvanized coupler nipple, 3/4"
23	22149	22149	2	Galvanized hexagon bushing, 3/4" x 3/8"
24	14431	14431	2	Breather vent
25	20013	20015	1	O Ring
26	26013	26013	1	Pressure Relief Valve
27	45650	45650	1	Silencer

Boom & Cyclone

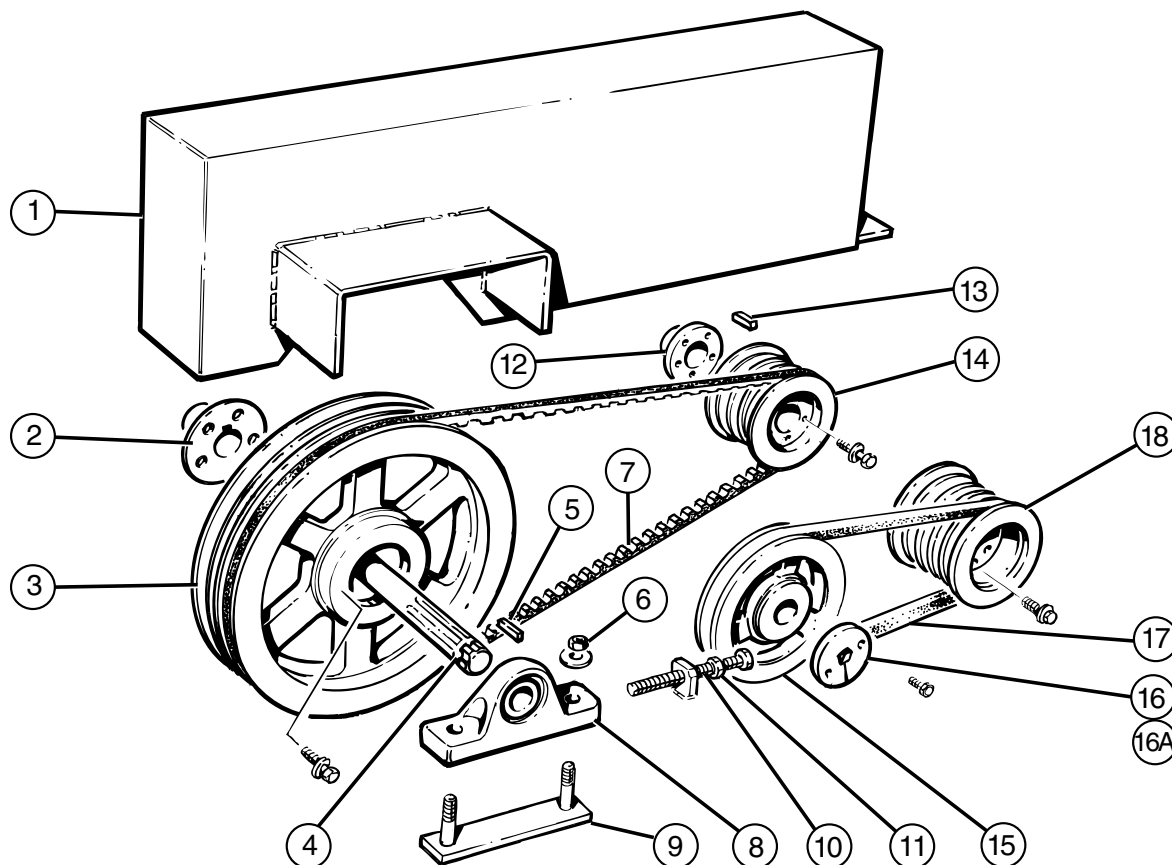
REPAIR PARTS LIST



Item No.	Ordering No		No. Req.d	Description
	Ultima 5	Ultima5i Ultima 6		
0	31003	31004	1	CYCLONE COMPLETE
1	31037	31037	1	Cyclone thimble screen
2	56063	56063	6	Pan head socket screw, # 10 x 3/4"
3	26034	26034	3	Cyclone thimble ring only
4	31007	31007	1	Cyclone liner steel long
5	31010	31010	1	Cyclone liner long
6	31038	31038	1	Cyclone liner kit (long)
7	31045	31046	1	Poly cyclone, bored
8	29530	29630	1	Boom extension
9	64032	64033	2	Boom gasket
10	22502	22502	1	Hydraulic cylinder, 2508 ASAE, c/w Pins
11	27033	27033	1	Boom handle
11A	60032	60032	1	Boom handle clamp
12	29540	29540	1	Boom lock
13	29500	29600	1	Boom mount
14	29543	29643	1	Boom bearing washer
15	29510	29610	1	Boom bottom
15a	-	-	2	Grease nipple
16	56003	56003	6	Jam nut, 1/2"
17	56051	56051	2	Coupling nut, 1/2"
18	29507	29507	2	Threaded boom clamp
19	29508	29508	1	Pin weldment boom hinge
20	60030	60030	1	Boom cover
21	29520	29620	1	Boom upper
22	29535	29535	1	Pin weldment boom ext. hinge
23	-	-	4	1/2 x 1 1/2 Flat/lock washer
24	26011	26061	1	Seal Clamp
25	45511	45611	1	Elbow - airlock outlet
26	45503	45603	1	Flange - airlock outlet
27	20013	20015	1	"O" Ring
28	56013	56013	2	Cap Screw, 3/8" NC-1"
29	60001	60001	-	Toggle Clamp

When ordering parts specify: model, size, serial number and
ordering number

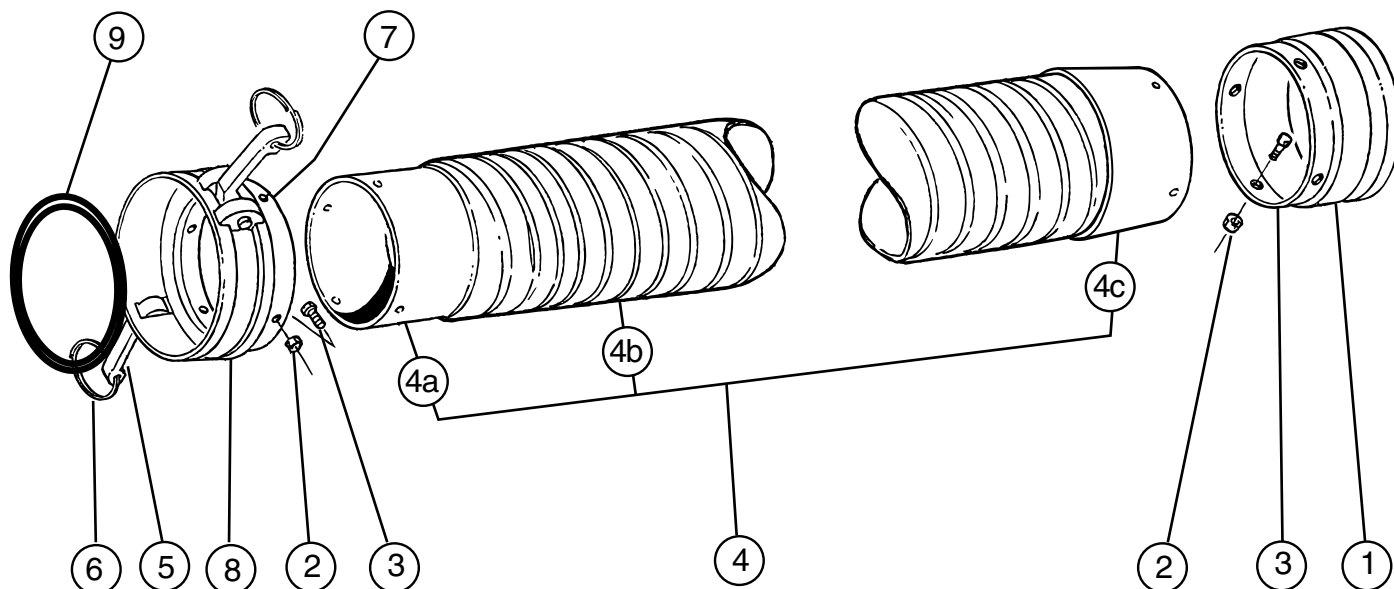
Belt Drive (for standard and self contained)



Item No.	Ordering No.		No	Description
	Ultima 5	Ultima 6	Req.d	
1	11520	11520	1	Belt Cover
2	18503	18504	1	Bushing, 1 3/8 complete with bolts
3	18004	18050	1	Sheave
4	18502	18502	1	Spline shaft, 1 3/8, 6 spline
5	20502	20502	1	Key, 5/16 x 2
6	-	-	2	Flat washer and nylon nut, 1/2 inch
7	18501	18505	5	V-Belt
8	20501	20501	2	Pillow block bearing, 1 3/8
9	11503	11503	2	Bolt weldment - bearing
10	56026	56026	2	Tap bolt, 1/2 x 3 3/4
11	56003	56003	2	Jam Nut, 1/2"
12	18038	18010	1	Bushing, 1 7/16 complete with bolts
13	20018	20018	1	Key, 3/8 x 2
14	18011	18052	1	Sheave
SELF CONTAINED HYDRAULICS - OPTIONAL				
15	18510	18510	1	Sheave, 6.4 QT
16	18511	18511	1	Bushing, 9/16 QT complete with bolts
16a	18515	18515	1	Bushing, 5/8 QT complete with bolts Serial 2659 & up (Key 3/16"x3/4" long)
17	18513	18513	1	Belt, B38
18	18514	-	1	Sheave B6, 6.0, replaces 18011
18	-	18512	1	Sheave 5V, 5.2, replaces 18052



Steel Flex Hose & Couplers



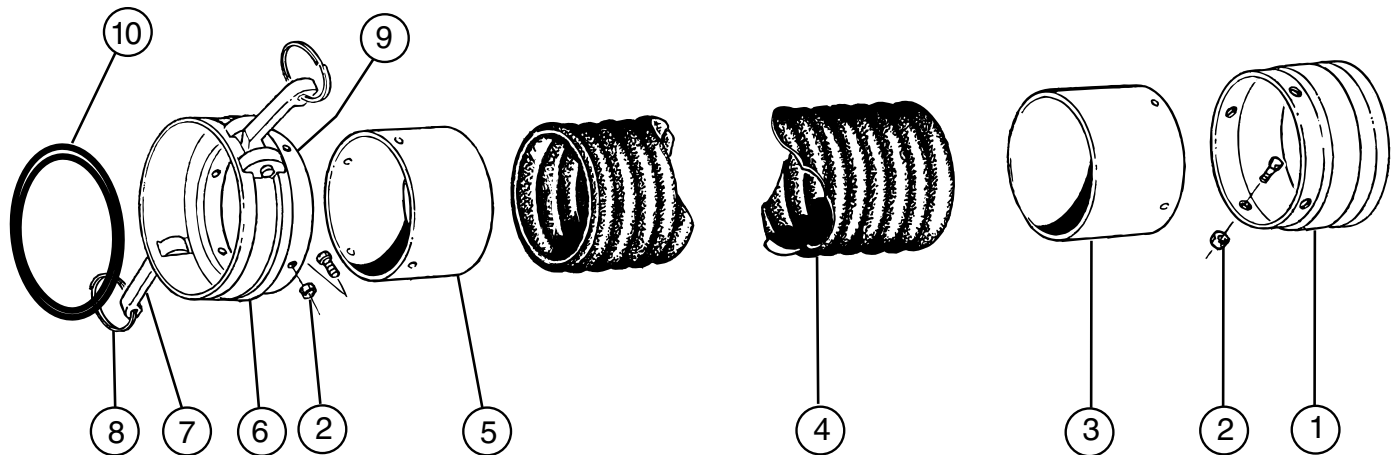
Item No.	Ordering No.		No Req.d	Description
	Ultima 5 Ultima 5i	Ultima 6		
0	43032	43047	1	Steel Flex Hose Assembly - includes 1-9
1	26006	26051	1	Male Coupler
2	56030	56030	8	Lock Nut, 1/4" NC x 3/4"
3	56027	56027	8	Carriage Bolt, 1/4" NC x 3/4:"
4	43033	43048	1	Steel Flex Hose, 10 ft.
4a	43029	43050	1	Tubing
4b	26003	26073	1	Steel Flex Poly Lock, 10 ft.
4c	26040	26047	1	Hose end reducer
5	26083	26086	2	Cam Lever
6	26085	26085	2	Finger Ring
7	26081	26082	2	Cam Lever Pin
8	26007	26052	1	Fem Coupler Assembly-includes 5 - 7
9	64028	64029	1	Coupler Gasket

**When ordering parts specify:
model, size, serial number and ordering number**

REPAIR PARTS LIST

Cleanup Hose & Couplers

ISSUE 03-09
Replaces 07-0101



Item No.	Ordering No.	Description	Number Required
0	43034	Complete Hose Assembly - 4" x 14', 4" female x 5" male	1
1	26006	Male Coupler, 5"	1
2	56027	Carriage Bolt, 1/4" NC x 3/4", Lock Nut & Washer	8
3	26028	Reducer, 5" - 4"	1
4	26112	Poly Hose, 4" x 14'	14 feet
5	43035	Tube	1
6	26005	Female Coupler, 4" - includes 7 - 9	1
0	43056	Complete Hose Assembly - 5" x 14', 5" female x 6" male	1
1	26051	Male Coupler, 6"	1
2	56027	Carriage Bolt, 1/4" NC x 3/4", Lock Nut & Washer	8
3	26044	Reducer, 6" - 5"	1
4	26113	Poly Hose, 5" x 14'	14 feet
5	43029	Tube	1
6	26007	Female Coupler, 5" - includes 7 - 9	1
0	43019	Complete Hose Assembly - 6" x 14', 6" female x 6" male	1
1	26051	Male Coupler, 6"	1
2	56027	Carriage Bolt, 1/4" NC x 3/4", Lock Nut & Washer	8
4	26120	Poly Hose, 6" x 14'	14 feet
5	43050	Tube	2
6	26052	Female Coupler, 6" - includes 7 - 9	1
0	43079	Complete Hose Assembly - 5" x 14', 5" female x 5" male	1
1	26006	Male Coupler, 5"	1
2	56027	Carriage Bolt, 1/4" NC x 3/4", Lock Nut & Washer	8
4	26113	Poly Hose, 5" x 14'	14 feet
5	43029	Tube	2
6	26007	Female Coupler, 5" - includes 7 - 9	1
Coupler parts			
7	26083	Cam Lever, for 4" & 5"	2
7	26086	Cam Lever, for 6"	2
8	26085	Finger Ring	2
9	26081	Pin Cam Lever, for 4" & 5"	2
9	26082	Pin Cam Lever, for 6"	2
10	64027	Coupler Gasket, for 4"	2
10	64028	Coupler Gasket, for 5"	2
10	64029	Coupler Gasket, for 6"	2

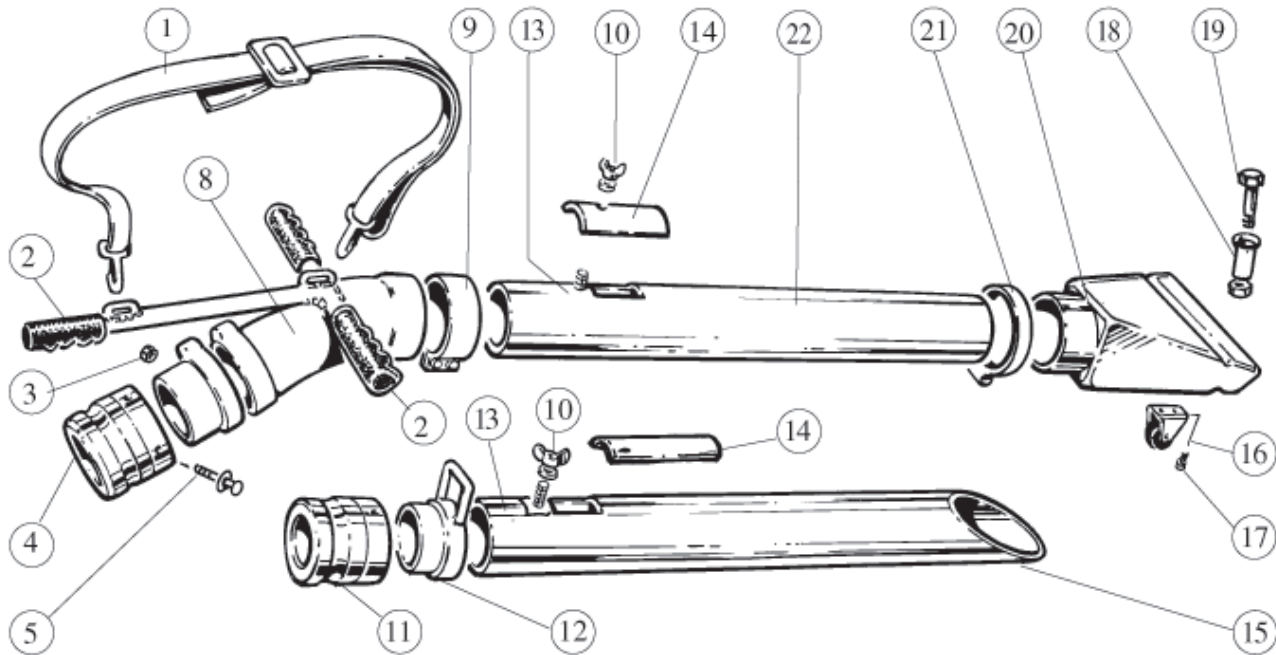


Manufacturing Ltd.

When ordering parts specify:
model, size, serial number and ordering number

Cleanup & Full Bin Nozzles

REPAIR PARTS LIST



Item No.	Ordering Number Ultima 5 Ultima 5i	Number Ultima 6	No. Req'd	Description
0	43036*	43030 **	1	Cleanup assembly complete
1	60021	60021	1	Shoulder strap
2	60008	60008	1	Handle grip
3	-	-	2	Nylon nut 3/8"
4	26004	26006	1	Male coupler
5	-	-	4	Carriage bolt, 1/4" x 3/4" complete with flat washer
8	43024	43525	1	Rotary elbow weldment
9	26010	26011	1	Seal clamp
10	-	-	2	Wing nut and flat washer, 3/8"
13	43004	43004	2	Bottom slide assembly
14	43003	43003	2	Top slide
16	60009	60009	2	Rigid Caster
17	-	-	1	Carriage bolt, 1/4" x 3/4". complete with washer and nut
18	43060	43060	1	Spacer pipe intake flare
19	-	-	1	Machine bolt, 1/4" x 3", flat lock washer and nut
20	43130	43129	1	Bored intake flare
21	26062	26063	1	Quick release T-bolt clamp
22	43037*	43031**	1	Aluminum tube
00	43083	43082	1	Intake Flare assembly, 16 to 20 (T-bolt clamp not included)
000	43510	43610	1	Full bin nozzle assembly
10	-	-	2	Wing nut and flat washer, 3/8"
11	26006	26051	11	Male coupler
12	43508	43608	1	Handle
13	43004	43004	2	Bottom slide assembly
14	43003	43003	2	Top slide
15	43509	43609	1	Tube

Note:

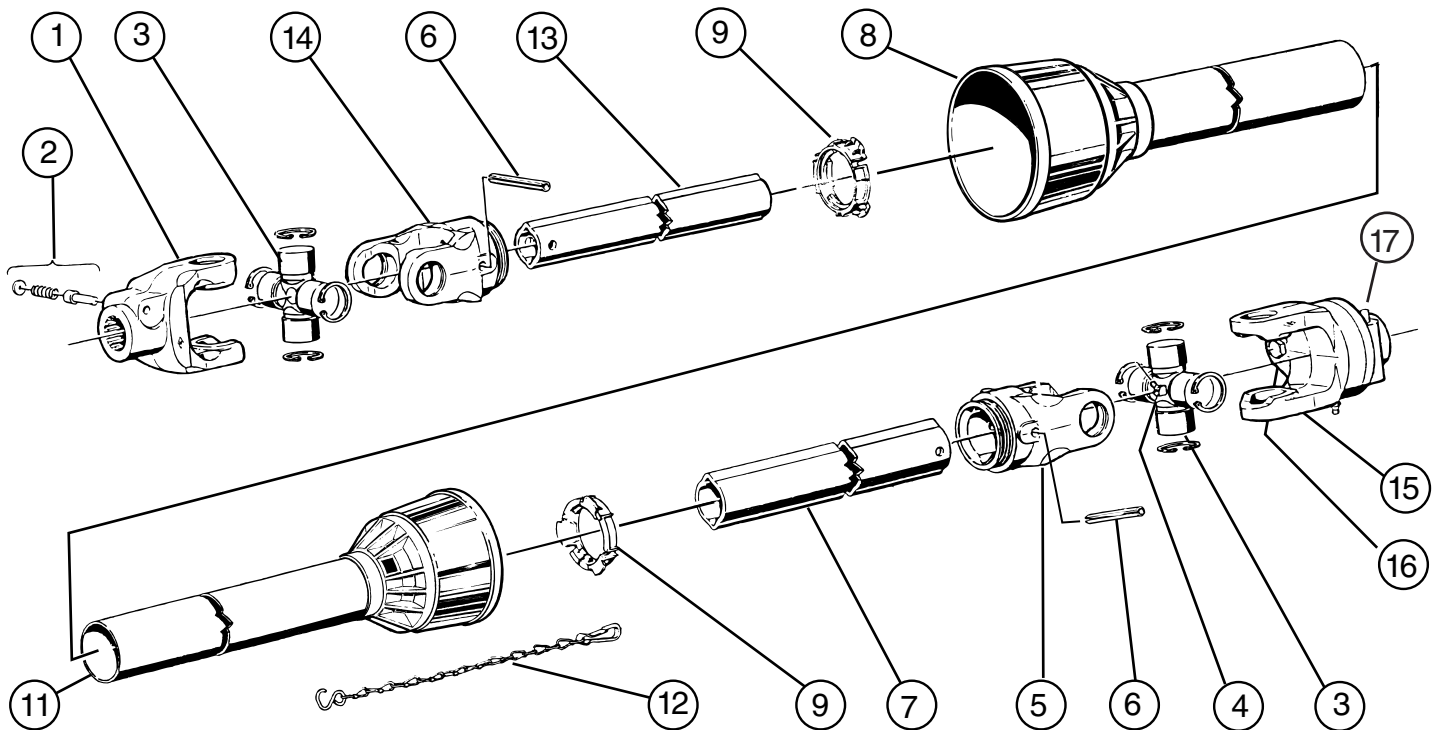
* For Ultima 5 units, tube and clamp are 4"
** For Ultima 6 units, tube and clamps are 5"

When ordering parts specify:
model, size, serial number and ordering number

REPAIR PARTS LIST

Driveshaft (LA MAGDALENA - 1000RPM)

ISSUE 03-09
Replaces 09-0207



Item No.	Ordering No.	No. Req'd	Description
0	16102	1	Drive shaft complete for 5" and 6" units
1	16201	1	End yoke, 1 3/8" - 21 spline
2	16202	1	Pin Kit
3	16203	2	Cross and bearing kit
4	16110	2	Grease nipple
5	16204	1	Yoke, Inner profile
6	16112	2	Spring pin
7	16205	1	Inner profile
8	16208	1	Outer shield tube
9	16209	2	Shield bearing
10	16207	1	Shield Complete - Inner & Outer
11	16210	1	Inner shield tube
12	16211	1	Safety Chain
13	16212	1	Outer profile
14	16213	1	Yoke, outer profile
15	16214	1	Shear bolt clutch yoke
16	16206	1	Shear bolt, 10 mm x 65 mm, 8.8 DIN
17	16215	1	Pin Kit Clutch Yoke



Manufacturing Ltd.

When ordering parts specify:
model, size, serial number and ordering number

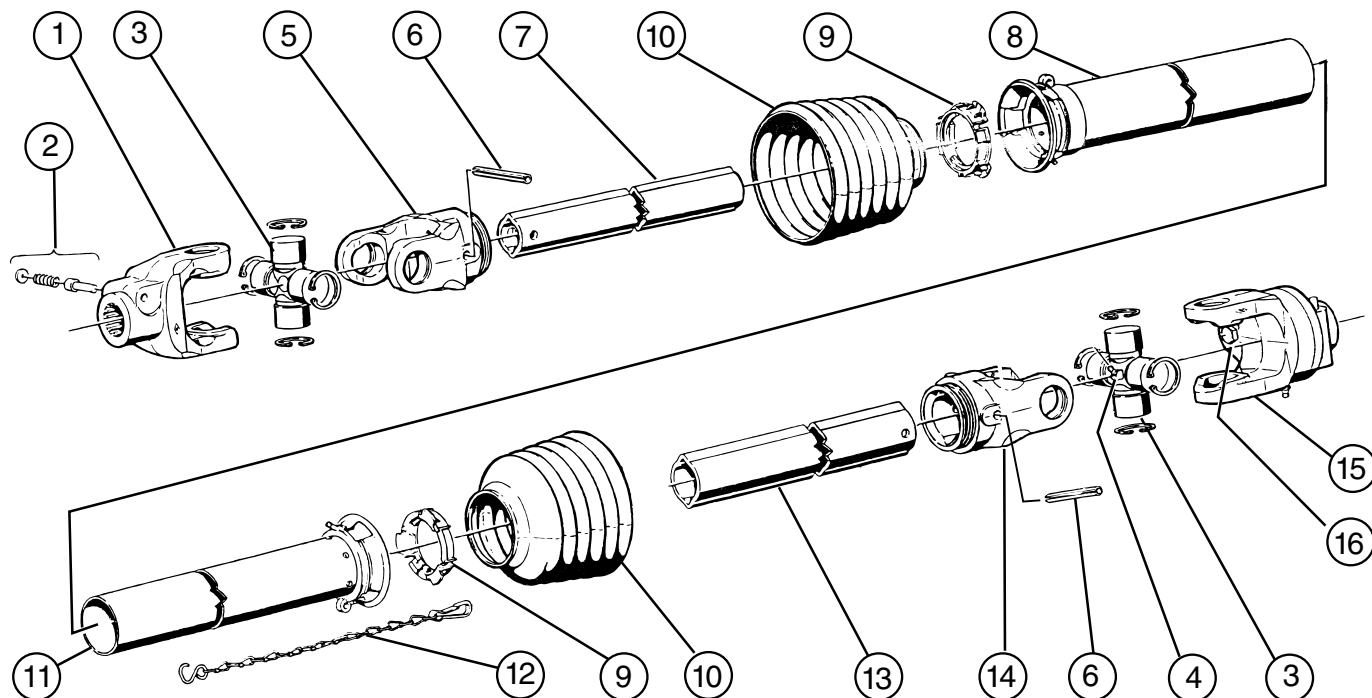
Repair Parts List

This page intentionally
left blank

REPAIR PARTS LIST

Driveshaft (WALTERSHEID - 1000RPM)

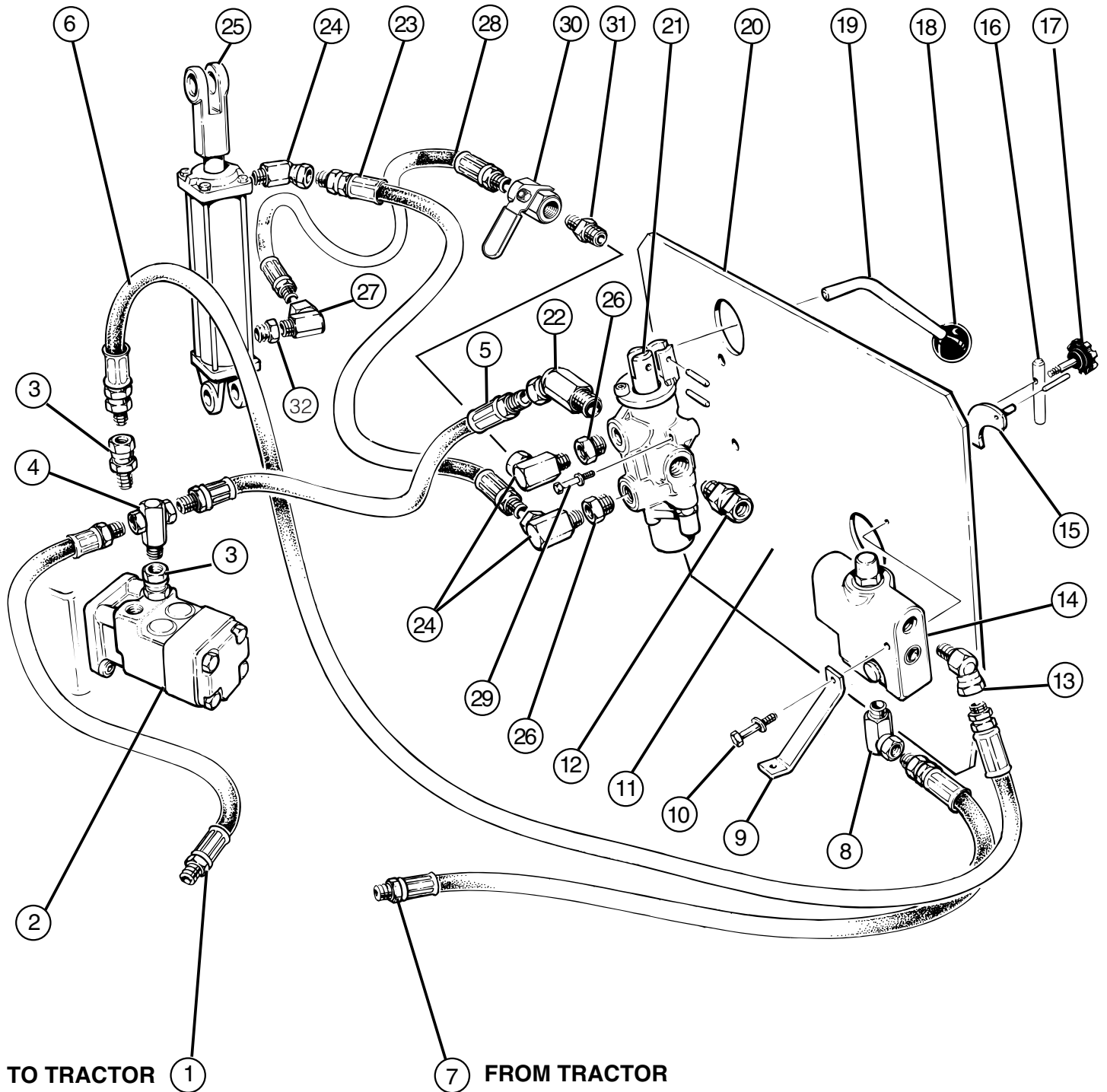
ISSUE 09-03
Replaces 10-0207



Item No.	Ordering No.	No. Req'd	Description
0	16100	1	Drive shaft complete for 5" and 6" units
1	16105	1	End yoke, 1 3/8" - 21 spline
2	16106	2	Pin Kit
3	16109	2	Cross and bearing kit
4	16110	2	Grease nipple
5	16111	1	Yoke, Inner profile
6	16112	2	Spring pin
7	16113	1	Inner profile
8	16118	1	Outer shield tube
9	16117	2	Shield bearing
10	16116	2	Shield cone
11	16119	1	Inner shield tube
12	16120	1	Safety Chain
13	16114	1	Outer profile
14	16115	1	Yoke, outer profile
15	16107	1	Shear bolt clutch yoke
16	16108	1	Shear bolt, 8mm NC x 65 mm, 8.8 DIN

Standard Hydraulic System

REPAIR PARTS LIST



When ordering parts specify:
model, size, serial number and ordering number

REPAIR PARTS LIST

Standard Hydraulic System

ISSUE 03-09
Replaces 13-0101

Item No.	Ordering Number	No. Req.d	Description
1	22514	1	Hose, 1/2" x 114"
2	22228	1	Hydraulic motor, White
3	22131	2	Adapter orb to pipe thread
4	22508	1	Swivel Tee
5	22524	1	Hose, 1/2" x 42"
6	22513	1	Hose, 1/2" x 48"
7	22515	1	Hose, 1/2" x 156"
8	22507	1	90 degree swivel elbow, 1/2"
9	22511	1	Brace, hydraulic mount
10	-	2	Bolt complete with washer and nut, 1/4" x 2 1/2"
11	22506	1	Pipe nipple, 1/2"
12	22503	1	Straight swivel, 3/4" x 1/2"
13	22505	1	Elbow swivel, 45 degree - 1/2"
14	22501	1	Flow control
15	26168	1	Indicator plate - for flow control
16	22166	1	Handle - for flow control
17	22165	1	Knob - for flow control handle
18	22536	1	Knob - for control valve
19	22535	1	Handle - for control boom valve
20	22510	1	Hydraulic valve mount
21	22203	1	Boom valve
22	22520	1	Swivel elbow, 3/4" x 1/2"
23	22517	1	Hose, 1/4" x 160"
24	22519	3	Swivel elbow, 3/8" x 1/4"
25	22502	1	Hydraulic cylinder, 2508 ASAE
26	22518	2	Reducer, 3/8" x 1/2"
27	22533	1	Swivel orifice, .060
28	22516	1	Hose, 1/4" x 150"
29	-	2	Bolt complete with washer and nut, 1/4" x 1 1/2"
30	22547	1	Ball valve
31	22548	1	Pipe nipple, 1/4"
32	22521	1	Reducer 3/8"x1/2"

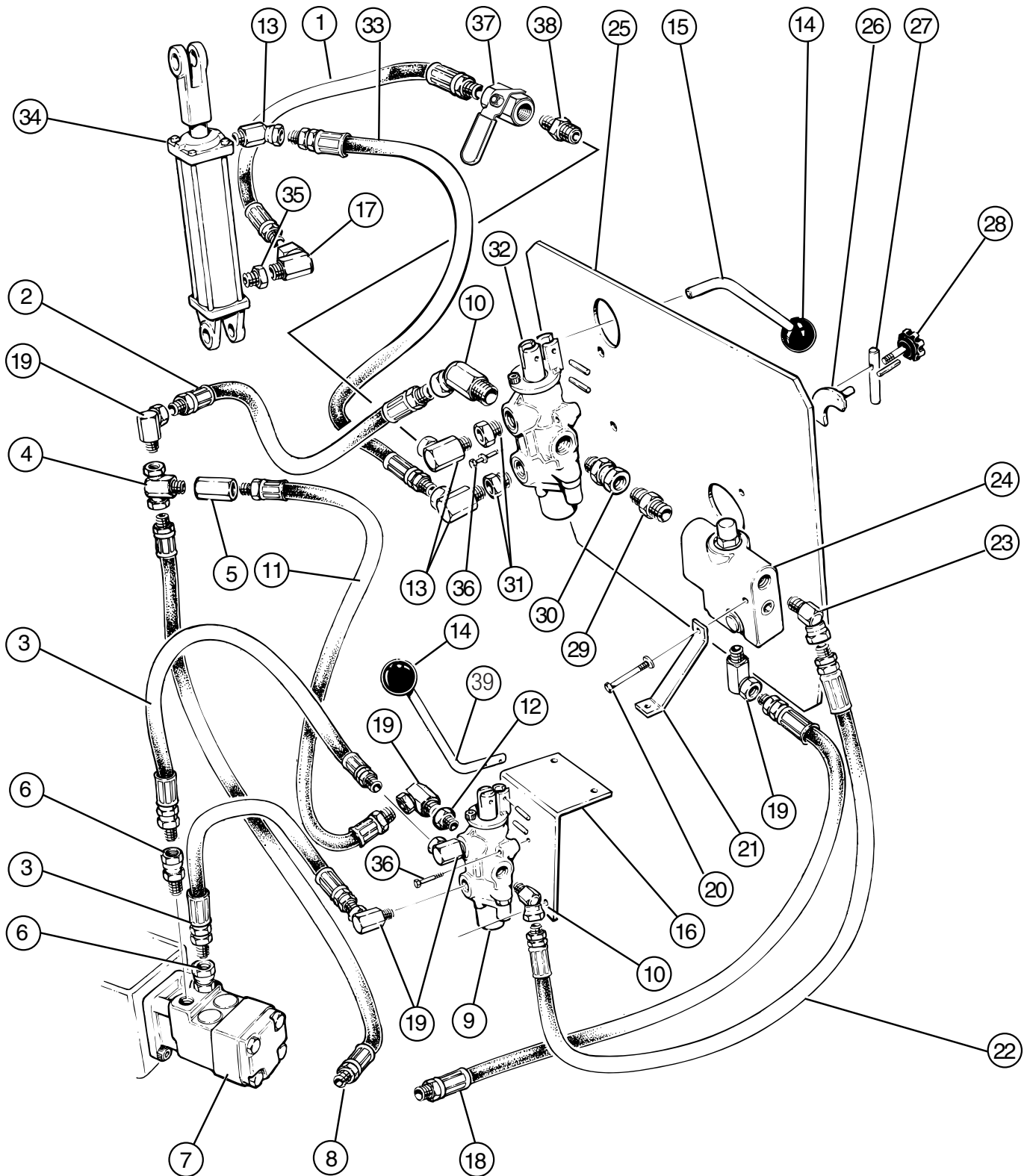


Manufacturing Ltd.

When ordering parts specify:
model, size, serial number and ordering number

Hydraulic System (WITH REVERSE OPTION)

REPAIR PARTS LIST



When ordering parts specify:
model, size, serial number and ordering number

REPAIR PARTS LIST

Hydraulic System (WITH REVERSE OPTION)

ISSUE 03-09
Replaces 15-9812

Item No.	Ordering Number	Number Required	Description
1	22516	1	Hose, 1/4" x 150"
2	22524	1	Hose, 1/2" x 42"
3	22575	2	Hose, 1/2" x 21"
4	22508	1	Swivel Tee
5	22525	1	Pipe coupler
6	22131	2	Adapter, ORB to pipe thread
7	22228	1	Hydraulic motor, White
8	22514	1	Hose, 1/2" x 114"
9	22017	1	Control valve airlock
10	22520	2	Swivel elbow, 45°, 3/4" x 1/2"
11	22578	1	Hose, 1/2" x 12"
12	22215	1	Reducer, 3/4" x 1/2"
13	22519	3	Swivel elbow, 3/8" x 1/4"
14	22536	2	Knob - for control valve
15	22535	1	Handle - for control boom valve
16	22572	1	Mount - for hydraulic valve
17	22533	1	Swivel elbow, .060 orifice
18	22515	1	Hose, 1/2" x 156"
19	22507	5	90° swivel elbow, 1/2"
20	-	2	Bolt, complete with flat washer and nut, 1/4" x 2 1/2"
21	22511	1	Brace - for hydraulic mount
22	22568	1	Hose, 1/2" x 36"
23	22505	1	45° Swivel elbow, 1/2"
24	22501	1	Flow control
25	22510	1	Mount - for hydraulic valve
26	22168	1	Indicator plate - for flow control valve
27	22166	1	Handle - for flow control valve
28	22165	1	Knob - for flow control valve
29	22506	1	Pipe nipple, 1/2"
30	22503	1	Straight swivel, 3/4" x 1/2"
31	22518	2	Reducer, 1/2" to 3/8"
32	22203	1	Boom valve
33	22517	1	Hose, 1/4" x 160"
34	22502	1	Hydraulic cylinder, 2508 ASAE
35	22521	1	Reducer, 3/8" x 1/4"
36	-	2	Bolt, complete with flat washer and nut, 1/4" x 1 1/2"
37	22547	1	Valve
38	22548	1	Nipple - 1/4"
39	22538	1	Handle brand valve Forward and reverse

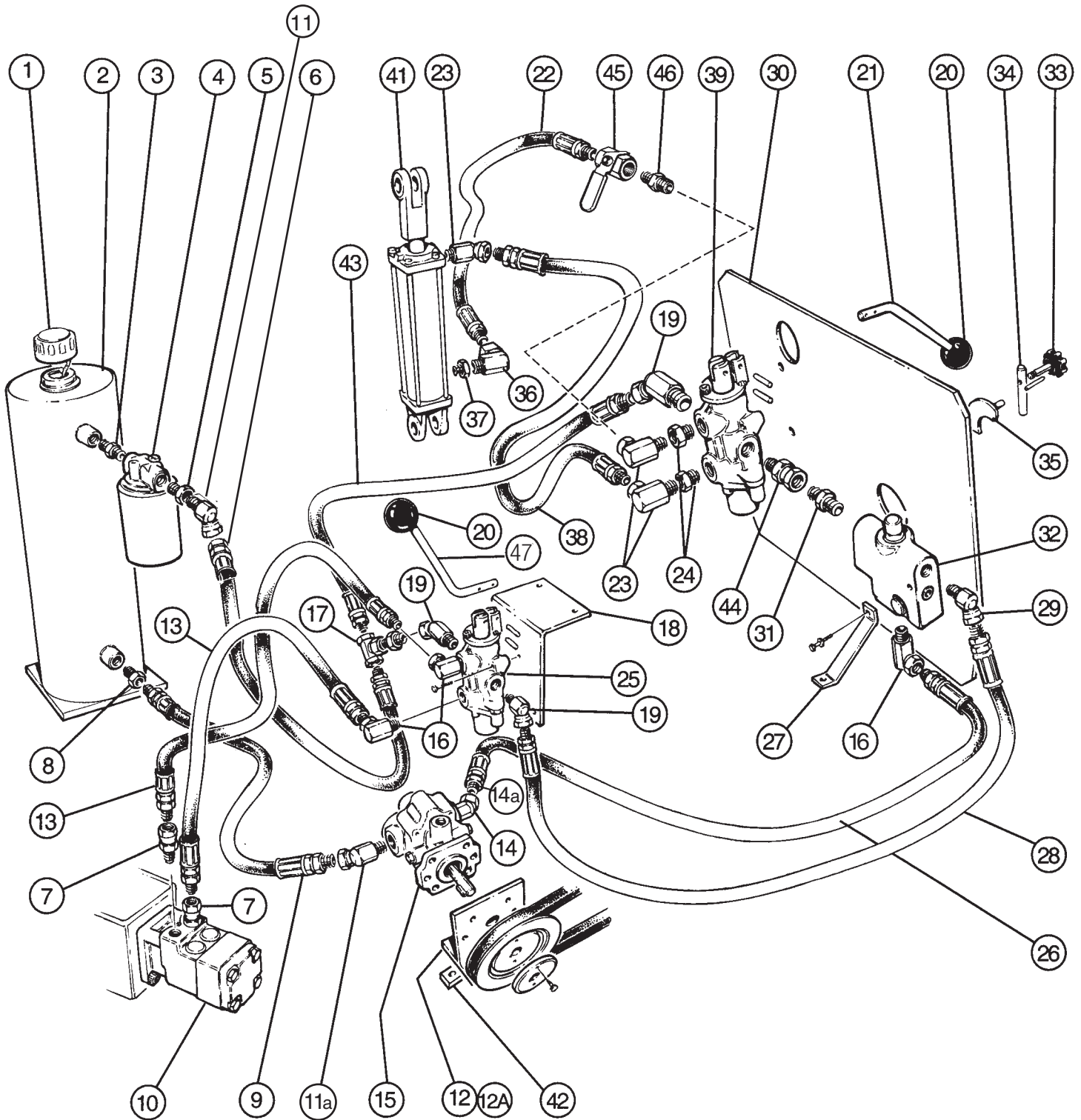


Manufacturing Ltd.

When ordering parts specify:
model, size, serial number and ordering number

Self Contained Hydraulic System (WITH REVERSE OPTION)

REPAIR PARTS LIST



When ordering parts specify:
model, size, serial number and ordering number

REPAIR PARTS LIST

Self Contained Hydraulic System (WITH REVERSE OPTION)

Rev. 11/05

Item No.	Ordering Number	Number Required	Description
1	22066	1	Filler breather
2	22550	1	Tank - for self contained hydraulics
3	22136	1	Pipe nipple, 3/4" x 2 1/2"
4	22067	1	Filter
5	22503	1	Reducer, 3/4" x 1/2"
6	22570	1	Hose, 1/2" x 54"
7	22131	2	Adapter, ORB to pipe thread
8	22215	1	Reducer, 3/4" x 1/2"
9	22513	1	Hose, 1/2" x 48"
10	22228	1	Hydraulic motor, white
11	22505	2	Swivel elbow, 45°, 1/2"
11a	22542	1	90° Elbow - Serial 2659 & up
12	22564	1	Mount - for hydraulic pump (For 5005 & 5006)
12a	22664	1	Mounr - for hydraulic pump (For 6006)
13	22575	2	Hose, 1/2" x 21"
14	22573	1	90° Swivel elbow, 3/8"
14a	22543	1	90° Elbow - Serial 2659 & up
15	22540	1	Hydraulic pump
15	22541	1	Hydraulic Pump - Serial 2659 & up
16	22507	3	90° Swivel elbow, 1/2"
17	22508	1	Swivel Tee, 1/2"
18	22572	1	Mount - for hydraulic valve
19	22520	2	45° Swivel elbow, 3/4" x 1/2"
20	22536	1	Knob for control valve
21	22535	1	Handle hydraulic boom valve
22	22516	1	Hose, 1/4" x 150"
23	22519	3	90° Swivel elbow, 3/8"
24	22518	2	Reducer, 1/2" x 3/8"
25	22017	1	Control valve - airlock
26	22567	1	Hose, 3/8" x 40"
27	22511	1	Brace, hydraulic mount
28	22568	1	Hose, 1/2" x 36"
29	22505	1	Elbow swivel, 45°, 1/2"
30	22510	1	Mount for hydraulic valve
31	22506	1	Pipe nipple, 1/2"
32	22501	1	Flow control
33	22165	1	Knob - for flow control
34	22166	1	Handle - for flow control
35	22168	1	Indicator plate - for flow control
36	22533	1	Swivel elbow, .060 orifice
37	22521	1	Reducer, 3/8" x 1/4"
38	22517	1	Hose, 1/4" x 160"
39	22203	1	Hydraulic valve
41	22502	1	Hydraulic cylinder, 2508 ASAE
42	22563	1	Clamp - for hydraulic pump mount
43	22569	1	Hose, 1/2" x 26"
44	22503	1	Swivel straight , 3/4" x 1/2"
45	22547	1	Boom Lock Valve
46	22548	1	Pipe Nipple 1/4"
47	22538	1	Handle brand valve forward and reverse



Manufacturing Ltd.

When ordering parts specify:
model, size, serial number and ordering number

Limited Warranty

Thor Manufacturing Ltd. (hereafter referred to as "Thor") products are warranted for a period of twelve (12) months from the date of delivery to the original purchaser, to be free from defects in material and workmanship when used under correct, normal agricultural use and proper applications.

Thor's obligation under the warranty shall be limited to the repair or exchange (at Thor's option) of any part which proves to be defective as provided.

The buyer shall be responsible for all expenses incurred as a result of repairs, labour, parts, transportation or any other work unless a Thor dealer has authorized such expenses in advance. It is the responsibility of the dealer to get approval from Thor before authorizing warranty work being done. Thor reserves the right to either inspect the product at the buyer's location or have the defective part returned to the factory for inspection.

The above warranty does not extend to goods damaged or subject to accidents, abuse or misuse after shipment from Thor's factory, nor to goods altered or repaired without authorization of Thor.

Thor makes no Express Warranty other than those which are specifically described. Any description of goods, including any reference to specifications in catalogues, circulaires, and other written material published, is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for

illustration purposes only, and does not create an Express Warranty that the goods conform to the sample or model. The dealer is solely responsible for determining the suitability of goods sold.

THOR MAKES NO WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.

This warranty is expressly in lieu of all other warranties expressed or implied. Thor will in no event, be liable for any incidental or consequential damages, nor for any sum in excess of the price received for the goods for which liability is claimed.

Claims for warranty must be made on Thor Warranty Claim Forms within 10 days of the failure occurrence. Warranty Authorization numbers are available from the factory and must be indicated on the Warranty Claim Form for all claims over a total dollar value of \$100.00.

The labour rate for warranty work where applicable will be credited at a rate determined by Thor.

IMPORTANT: *Components or accessories, including blower, airlock, flex, hose and hose accessories that come in contact with material being moved, carry no warranty for wear. Warranty is void when unit is used for moving material other than cereal grains, grass seeds or pulse crops.*

Thor MANUFACTURING LTD.

Thor

MANUFACTURING LTD.

77 Beghin Avenue, Winnipeg, Manitoba, Canada R2J 3S8
Phone: Toll-free 1-800-582-3944
In other parts of the world 1-204-982-8350 • Fax 1-204-663-8238
Email: sales@thormanufacturing.com

Issue date: November, 2005

Part Number 90006

Cost \$ 25.00 plus \$2.50 postage

Printed in Canada