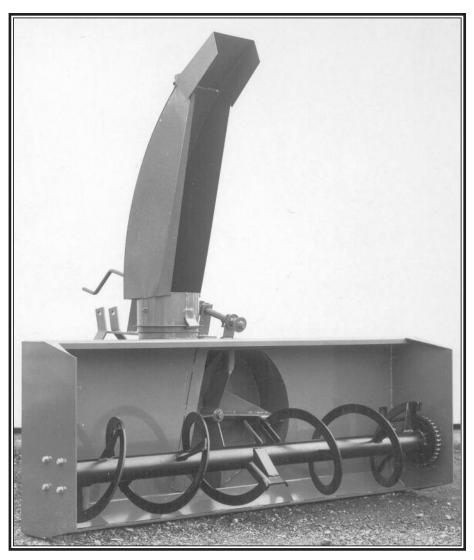


1000 SERIES COMPACT SNOWBLOWER

Operators & Parts Manual



DEAR CUSTOMER:

Thank you for purchasing an Agro Trend Snowblower. We believe that we are providing you with one of the finest blowers available on the market, and that this unit will provide you with years of dependable service, provided that the following basic procedures are followed.

SAFETY PRECAUTIONS

- 1. Be sure all exposed moving parts such as shafts and adapters are properly guarded and that all coupling devices are securely attached before applying power. Do not use unless all shields are in place.
- 2. Do not wear loose fitting clothing in the vicinity of any moving parts.
- 3. Do not exceed recommended ground speed, recommended PTO speed, or recommended horsepower for the unit which you are using.
- 4. Keep all persons, pets, and livestock away from unit when in use.
- 5. Do not turn discharge chute towards persons, pets, livestock, or buildings when blower is in operation.
- 6. Before working on, servicing, or making adjustments to equipment, disengage power, lower unit to ground level, shut off engine, make sure all moving parts have stopped and all pressure in the hydraulic system in relieved.



To Prevent Serious Injury or Death:

· Keep hands, feet and clothing away from auger intake

Colour: Red

Location: Blower Side

Stones or other objects may be thrown great distances by the auger, especially at higher RPMs. Do not stand in front of the blower when it is in operation.

Any debris or stones which are swept into the fan can be thrown great distances. Do not allow any bystanders to stand in the path of the discharge chute.

Shields are supplied for your protection. Do not remove shields and do not operate the machine unless all shields are in place.

Do not service, adjust, or repair, until the PTO has been disengaged, the motor shut off, the unit lowered to the ground, and all parts have stopped moving. Any moving part has the possibility of entangling the operator or his clothing, and causing serious injury. dismemberment, or death.



ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY! DO NOT OPERATE WITHOUT

- ALL DRIVELINE, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE SHIELDS THAT TURN FREELY ON DRIVELINE

Colour: Red Location: PTO Shaft

Never go near any moving parts. Because tractor PTOs may be accidentally engaged, never attempt to lubricate, repair or couple PTO unless tractor engine is shut off. Do not remove shields. Be sure that PTO shield turns freely and independently of the driveline. Do not operate unless all shields are in place. Be sure that PTO shaft is attached securely at both ends before operating.

- 7. Do not attempt to remove any obstruction from discharge chute until PTO is disengaged and engine is shut off.
- 8. Do not stand on auger to service any part of blower, as auger may turn causing either, a serious fall; or, the blower fan to rotate, presenting a danger to fingers, hands, or arms in the chute assembly or blower housing.
- 9. Keep hands and arms away from cables and turner bar of hydraulic hood turner until engine is shut off.
- 10. Always look to the rear before backing up.
- 11. Be aware of the presence of people and objects that may be obscured from vision by blowing or drifted snow. Be certain that no children have tunnelled into snowbanks which are to be removed. Never let children slide down snowbanks in the vicinity of an operating blower.



Lower or block elevated components before servicing or when leaving the machine. Elevated components can fail and cause serious injury

Abaissez ou bloquez les éléments surélevés avant de faire l'entretien lorsque vous vous éloignez de la machine. Les éléments surélevés peuvent tomber et causer des blessures sérieuses.

Colour: Yellow

Location: Blower Back

Do not service, adjust or repair any equipment attached to the three-point hitch hydraulics, without lowering the unit to the ground. If work must be performed underneath the unit, block the unit in a raised position.



Shut off engine before servicing machine.

Éteindre le moteur avant de fair l'entretien.

Colour: Orange Location: Blower Back

Do not attempt any servicing of the blower while the tractor engine is running. If the tractor PTO is accidentally engaged the serviceman could become entangled in moving parts and be seriously injured or killed. Be certain. Be safe. Shut off the engine.



All nuts and bolts must be retightened regularly. Consult your owners manual.

Tous les écrous et les boulons doivent être resserrés à intervalles réguliers. Consultez le manuel de l'usager.

Colour: Yellow

Location: Blower Back

Every effort is made to ensure that a well constructed high quality product leaves the manufacturer. Again the dealer inspects and services each unit before it leaves his lot. To keep your blower in good operating condition, please inspect and retighten as necessary any loose nuts or studs after a half hour break in period. Thereafter periodic checks will ensure that your blower remains in top working condition.

REV. 07/97

PRE-SALE SERVICE AND SETUP OF BLOWERS

- 1. Loosen hood hold down clips and rotate 90°.
- 2. Lift hood assembly off and spread a light coat of grease on outside of blower mainframe pipe.
- 3. Replace hood assembly.
- 4. Install hood turner as per instructions.
- 5. Grease shear assembly and auger bearings.

- 6. Check oil level in gearbox.
- 7. Check all bolts for tightness.
- 8. Check auger drive chain tension and alignment. Adjust if necessary.
- 9. Grease PTO universal joints, shield retaining collars, and inner tube of PTO.

OPERATION

- 1. When attaching the blower make certain all guards are in place.
- 2. Ensure that the fan and auger rotate freely before connecting PTO shaft to the tractor.
- 3. Use proper pins and ensure that all connections are secure.
- 4. Engage the PTO at low engine RPM and slowly increase speed to operating level. Operating speed will vary with snow, weather, and ground conditions.
- 5. Adjust the top link of the three-point hitch to match the ground and snow conditions. Increasing the length will cause the blower to cut deeper into compacted snow, but may also cause the blower to scrape gravel or stones into the fan, which can be a danger to nearby persons, pets, livestock or buildings. Decreasing the length of the top link causes the blower to ride back on the skid shoes, raising the cutting height, thereby reducing the possibility of scraping gravel or stones into the blower.
- 6. Adjust the deflector for the distance of throw required. Moving the adjusting bar, to shorten the distance between the pins increases the distance thrown.
- 7. Be aware of the presence of people and objects that may be obscured from vision by blowing or drifted snow. Be certain that no children have tunnelled into snowbanks which are to be removed. Never let children slide down snowbanks in the vicinity of an operating blower.

SERVICE

- 1. Before servicing or adjusting, disengage the PTO, lower the unit to the ground, and shut off engine.
- 2. To prevent freezing of hood or other moving parts apply a solution of antifreeze or light oil.
- Check gearbox oil level on a regular basis. If oil level is low, use a good quality 80W-90 gear oil. Change oil after 50 hours during break-in period. Change after 700 750 hours or yearly.
 Capacity: Compact .35 litres; Standard .6 litres; Farm Utility 1.3 litres; Heavy Duty 2.5 litres.
- 4. Grease the shear assembly and hydraulic hood turner every five hours of operation.
- 5. Grease the auger bearings every ten hours of operation.
- 6. Follow the chart on the PTO shaft for recommended lubrication intervals on PTO.
- 7. Check auger drive chain tension and alignment. Adjust if necessary.

INSTALLATION INSTRUCTIONS FOR SNOWBLOWER

FOR A BETTER P.T.O. SHAFT & GEARBOX OPERATION

A proper initial installation will give you years of satisfactory service on your equipment. Please read carefully following instructions which have been specially made to help you and make you satisfied with your purchase.

WARNING: Unfortunately, snowblowers will be faced with forgotten or hidden objects under the snow, such as: chain, tires, stones, pieces of wood, etc.... In spite of all our efforts, machines are not built to resist all those conditions.

DANGER: TOO BIG TRACTOR

It is dangerous to use a tractor which is too big or too powerful. The tractor will always be able to overload the blower, even if the machine is already at maximum capacity. Tractor being very high, too large angles at P.T.O. universal joints will result, and life of universal joints will be shortened dramatically.

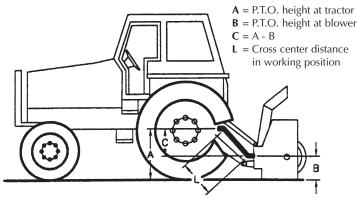
INSTALLATION INSTRUCTIONS FOR SNOWBLOWER - cont'd

P.T.O. SHAFT ANGLES

P.T.O. shafts are made to transmit power with angles at universal joints. However, these angles should be kept to a minimum. Larger the angle, shorter the life of P.T.O. Take for example a snowblower sold for a tractor capacity of 60-70 H.P., which would be attached to a 60 H.P. tractor, operating at maximum capacity (60 H.P. continuous).

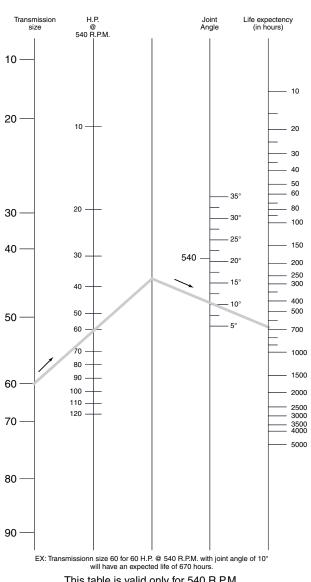
<u>H.P.</u>	P.T.O. angles	Estimated life in hours
60 @ 540 RPM	5°	450 hours
Using #50 PTO	10°	195 hours
	15°	90 hours
	20°	40 hours
	25°	20 hours

HOW TO DETERMINE P.T.O. ANGLE



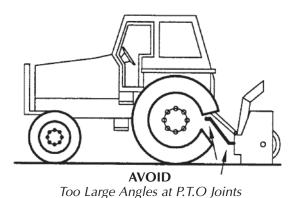
- 1) Lower blower on ground.
- 2) Take measures A, B and L
- 3) Subtract B of A (A B = C)
- 4) Divide L by C $(L \div C = F)$
- 5) Compare F Factor in table to find P.T.O. angle (interpolate, if necessary).

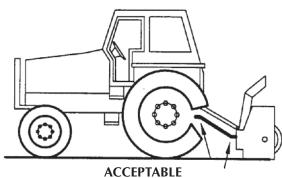
F FACTOR	ANGLE
6	10°
3.75	15°
2.75	20°
2.15	25°
1.75	30°



This table is valid only for 540 R.P.M.

Previous examples clearly demonstrate that universal joint angle is directly related with life of P.T.O. In order to reduce angle, it is necessary to increase the distance between snowblower and tractor

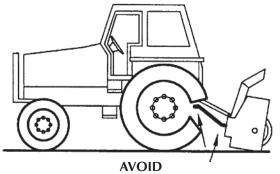




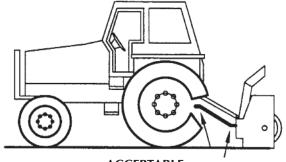
Reasonable Angles at P.T.O Joints

If it is impossible to increase the distance between snowblower and tractor, in order to maintain a reasonable angle at P.T.O., it is recommended to use a larger size of P.T.O., that is <u>a greater capacity P.T.O.</u> (please refer to your dealer for more details).

For snowblowers of 100 H.P., an additional gearbox is also available that can be mounted on existing snowblower gearbox, which increased the input shaft height, reducing angle at P.T.O. joints. This gearbox also has an input speed of 1000 R.P.M., which greatly increases P.T.O. capacity.



Non-Equal Angles at P.T.O. Joints



ACCEPTABLE *Equal Angles at P.T.O Joints*

ANGLES AT EACH END OF P.T.O.

A popular habit is to change snowblower angle in order to obtain a better scraping effect. This practice can become harmful to the P.T.O., angle at each end being unequal. There will be a fan speed variation as well as a drastic increase of load on cross and bearings. **To Avoid.** It is recommended to keep tractor P.T.O. shaft and snowblower input shaft always parallel.

SHEAR BOLTS

Shear bolts are built to break under shocks on the fan or on the auger. However, under certain circumstances, this security is not adequate. Example: A sudden high impact shock on the fan may, in some cases, break the fan shaft without breaking the shear bolt.

If the shear bolt breaks, make sure to always replace it with a same category bolt (**grade 8.8**). It is necessary to always maintain this bolt very tight, in order to keep the efficiency of the shearing mechanism.

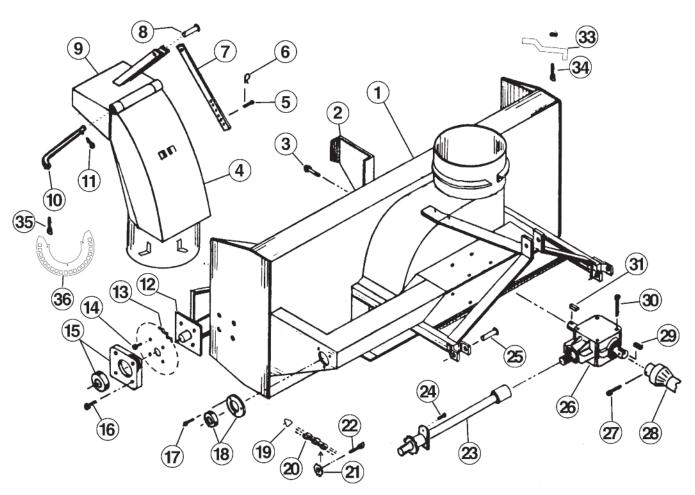
WARNING: The gearbox fan shafts are made with special alloy steel. Moreover, they are case hardened to increase capacity to shock load. These shafts cannot be broken under normal snow loads. However, undesirable objects may enter the fan and either bend or break gearbox shaft. It is understood that gearbox cannot be built to resist every possible overloads, and consequently, gearbox fan shafts will not be replaced under warranty. Therefore, the user of the snowblower must be very careful.

MAXIMUM LENGTH OF P.T.O. SHAFT

WARNING: Telescopic tubes of P.T.O. should overlap a minimum length to meet ideal conditions for power transmission.

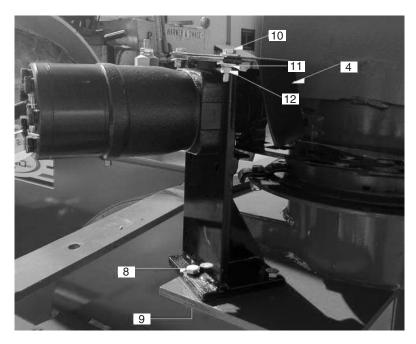
Following table could be used as a guide to find the maximum permissible length of P.T.O.:

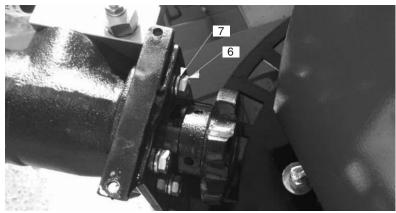
Description of P.T.O.	Over-a	Telescopic tubes overlap	
Description of F.1.O.	Closed Opened Max.		Telescopic tubes overlap
T20-056P	29:3/4"	41"	5"
T40-056P	30:1/2"	40:1/2"	6"
T50-071P	36:1/2"	50"	7"
T60-071P	37:3/4"	51:1/4"	7"
T80-066P	36"	47:1/4"	7"
T80-076P	40:1/2"	53"	8"
T90-071P	39"	51"	8"

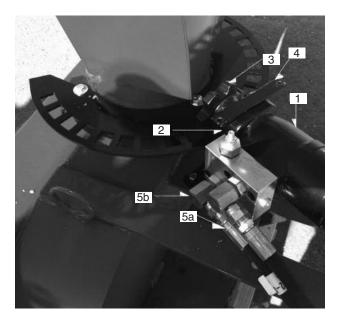


Item	Part Number	Deceriation	Snowblower Model				
	Part Number	Description	1042	1048	1054	1060	
1	4001 - 01	Mainframe	1				
	4001 - 04			1			
	4001 - 07				1		
	4001 - 10					1	
2	4015 - 10	Fan	1	1	1	1	
3	7001 - 0115	Hex Bolt Gr. 5 1/16 x 1 1/2 & F.W.	1	1	1	1	
4	4020 - 10	Chute (W/O Deflector)	1	1	1	1	
5	7003 - 0308	Clevis Pin 5/16 x 1-3/4	1	1	1	1	
6	7004 - 0402	Hairpin 3/32 x 2-1/4	1	1	1	1	
7	4020 - 12	Adjusting Arm	1	1	1	1	
8	7001 - 0212	Hex Bolt Gr. 5 5 /16 x 1 & Locknut	1	1	1	1	
9	4020 - 11	Deflector	1	1	1	1	

Itom	Part Number	Decementary	Snowblower Model				
Item		Description	1042	1048	1054	1060	
10	4020 - 13	Deflector Hinge Pin	1	1	1	1	
11	7005 - 0404	Cotter Pin 1/8 x 1	1	1	1	1	
12	4005 - 01	Auger	1				
	4005 - 04			1			
	4005 - 07				1		
	4005 - 10					1	
13	5401 - 0601	Auger Drive Sprocket	1	1	1	1	
14	7001 - 0313	Hex Bolt Gr.5 3/8 x 1-1/4 & L.W. & Nut	4	4	4	4	
15	5415 - 0205	Bearing 1" Cast Flange	2	2	2	2	
16	7001 - 0414	Hex Bolt Gr.5 7/16 x 1-1/2 & L.W. & Nut	8	8	8	8	
17	7001 - 0212	Hex Bolt Gr. 5 5/16 x 1 & L.W. & Nut	3	3	3	3	
18	5415 - 1205	Bearing 1" Flangette	1	1	1	1	
19	5420 - 0102	Connector Link #50	1	1	1	1	
20	5420 - 0101 - 40	Roller Chain #50 (50")	1	1	1	1	
21	5401 - 0401	Idler Sprocket	1	1	1	1	
22	4040 - 10	Idler Bolt Assembly	1	1	1	1	
23	4010 - 01	Cross Shaft	1				
20	4010 - 04	O1033 OHAIT		1			
	4010 - 07			1	1		
	4010 - 10				ı	1	
24	5450 - 00041	Hex Bolt GR.2 1/4 x 1 & L.W. & Nut	1	1	1	1	
25	4025 - 10 - 01	Hitch Pin	2	2	2	2	
26	5401 - 0101	Gearbox	1	1	1	1	
27	7001 - 0118	Hex Bolt Gr. 5 1/4 x 2-1/2 & L.W. & Nut 1 1		1	1	1	
28	5401 - 0201	PTO Shaft	1	1	1	1	
29	7002-0201-06	Keystock 1/4 sq. x 1-1/2	1	1	1	1	
30	7001 - 0328	Hex Bolt Gr. 5 3/8 x 5 & L.W. & Nut	4	4	4	4	
31	7002 - 0201 - 8	Keystock 1/4 sq. x 2	1	1	1	1	
32	5450 - 000509	Shearpin 6mm x 40mm GR8.8	1	1	1	1	
33	501 - 310 - 962	C&S Hood Clip	3	3	3	3	
34	7001 - 0313	Hexbolt 3/8 x 1 1-4 Gr.5 & Locknut	3	3	3	3	
35	7001 - 0312	Hexbolt 3/8 x 1 Gr.5 w/FW, LW & Nut	3	3	3	3	
36	4020 - 16	Comp / Std. Hood Gear	1	1	1	1	





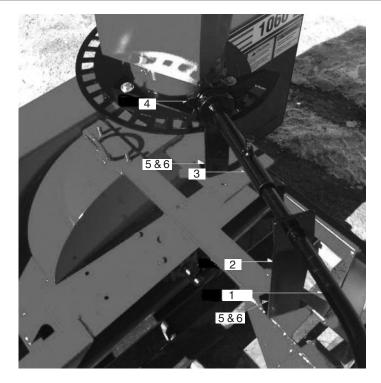


Item	Part Number	Description		Model				
Item	Part Number	Description	COMP	STD	FUS	FUD	HD	
1	5401 - 1060	Hyd. Motor	1	1	1	1	1	
2	4035 - 15	Hyd. / Orbital Turner Brkt.	1	1	1	1	1	
3	5401 - 1057	Sprocket	1	1	1	1	1	
4	4235 - 52	Chief for Hyd Turner	1	1	1	1	1	
4	4233 - 32	Shield for Hyd. Turner (Location to mount shown)	I	ı	1	1	ı	
		(Location to mount shown)						
5a	7522 - 0060	Hose	2	2	2	2	2	
5b	7520 - 9515	Fitting	2	2	2	2	2	
6	7001 - 0312	3/8 x 1 Bolt Gd.5 Plated	4	4	4	4	4	
7	7001 - 0305	3/8 Lockwasher Plated	4	4	4	4	4	
	7004 0040	2/2 / // 5 // 5 // 5						
8	7001 - 0313	3/8 x 1-1/4 Bolt Gd.5 Plated	3	3	3	3	3	
9	7001 - 0302	3/8 Lock Nut Nylon Plated	3	3	3	3	3	
9	7001 - 0302	3/6 LOCK Nut Nylon Flated	3	3	3	3	3	
10	7001 - 0111	1/4 x 3/4 Bolt Gd.5 Plated	2	2	2	2	2	
'		X of 1 Bolt Galo 1 lated			_			
11	7001 - 0105	1/4 Lock Washer Plated	2	2	2	2	2	
12	7001 - 0101	1/4 Nut Gd.5 Plated	2	2	2	2	2	

PROCEDURE TO MOUNT THE HYDRAULIC TURNER

- 1. Place the orbital motor (5401-1060) through e the bracket (4035-15) so that the shaft of the motor is towards the gusset of the bracket and the ports are upward. Bolt in place using 3/8 X 1 bolts and 3/8 lock washers.
- 2. Turn the shaft so that the keyway is at the 2 o'clock position (when facing the end of the shaft).
- 3. Place the sprocket on the top of the gear plate on the hood with the set screws away from the hood and the keyway at the 10 o'clock position (when facing the end of the sprocket).
- 4. Put the shaft of the orbital motor into the sprocket, with the key stock in place. This will require placing the support for the gear underneath the gear.
- 5. Now position the bracket to bolt it to the turner mounting plate and bolt in place using 3/8 X 1 ¼ bolts and 3/8 lock nuts.
- 6. Now set the sprocket so that it is in the centre of the holes, looking from the closest edge to the hood and the farthest edge from the hood. Tighten the set screws on the sprocket.
- 7. Now take the hydraulic fittings and hoses and attach them to the orbital motor.
- 8. Place the shield on the top of the bracket and attach it using the ¼ X ¾ bolts, ¼ lock washers and ¼ nuts.

Item	Part Number	Description		Model				
Item	Part Number	Description	COMP	STD	FUS	FUD	HD	
1	4030 - 14	Hand Crank / Comp. & Std.	1	1				
	4030 - 12	Hand Crank			1			
2	4030 - 15	Man. Hood Turner Crank Support	1	1	1			
3	4030 - 11	Man. Hood Turner	1	1	1			
4	5401 - 1057	Sprocket	1	1	1			
5	7001 - 0302	3/8 Lock Nut Nylon Plated	2	2	2			
6	7001 - 0313	3/8 x 1-1/4 Bolt Gd.5 Plated	2	2	2			



PROCEDURE TO MOUNT MANUAL TURNER

Place the crank (4030-14) through the ¼ X 2 X 12 (501-330-697) with the foot at the bottom away from the handle end of the crank.

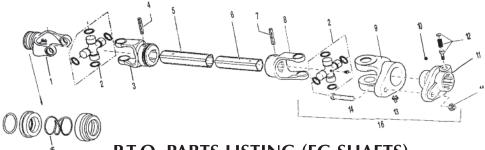
Now place the crank assembly into the tubing of the other part of the turner (4030-11), starting at the end opposite the sprocket.

Tighten the 3/8 X 1 bolt to hold the crank tight in the tube.

Place the sprocket onto the gear on the hood and bolt the feet down, one to the turner mounting plate and the other to the third link brace.

Check to ensure that the 1/4 X 2 flat bars are still perpendicular to the crank and tube of the turner.

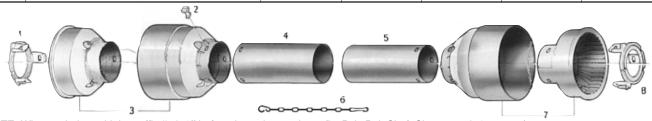
With the unit attached to the tractor, check to ensure that the crank is at the desired extension as well as ensuring clearance to the tractor and operator in the full range of movement of the three point hitch.



P.T.O. PARTS LISTING (EG SHAFTS)

NOTE: When ordering add the suffix "5450" before the order numbers (ie: Roll Pin Shaft Size 10 - 5450-000010)

Ref. #	Description	Shaft Size						
nei.#	Description	20	40	50	60	80		
1	Yoke 1-3/8 Z.6 Push Pin	- 022001	- 024001	- 025001	- 026001	- 028001		
	Yoke 1-3/8 Z.6 Lock Collar	- 022324	- 024430	- 025363	- 026544	- 028423		
	Yoke 1-3/4 Z.20 Push Pin	n/a	n/a	n/a	- 026008	- 028004		
	Yoke 1-3/4 Z.20 Lock Collar	n/a	n/a	n/a	- 026555	- 028428		
	Yoke 1 RB 1/4 Key	- 012058	n/a	n/a	n/a	n/a		
2	Cross Journal	- 012130	- 014130	- 015130	- 016130	- 018130		
3	Yoke Outertube	- 012003	- 014006	- 015011	- 160028	- 018009		
4	Roll Pin Outertube	- 000012	- 000014	- 000016	- 000018	- 000343		
5	Outer Tube	- 120200	- 130200	- 150200	- 160215	- 160200		
6	Inner Tube	- 120100	- 140100	- 150100	- 160115	- 170100		
7	Roll Pin Innertube	- 000011	- 000012	- 000394	- 000016	- 000271		
8	Yoke Inner Tube	- 012002	- 014007	- 015012	- 016029	- 018008		
9	Shear Yoke	- 012005	- 014012	- 015024	- 016042	- 018023		
10	Ball	- 000024	- 000022	- 000022	- 000023	- 000023		
11	Hub 1-3/8 Z.6	- 022010	- 024013	- 025027	- 026043	- 028024		
	Hub 1-3/8 Z.6	n/a	n/a	n/a	n/a	- 028037		
	Hub 1-3/4 Z.20	n/a	n/a	n/a	n/a	- 028038		
12	Push Pin set 1-3/8	- 026004	- 026004	- 026004	- 026004	- 026004		
	Push Pin set 1-3/4	n/a	n/a	n/a	- 026005	- 026005		
	Interfering bolt	- 000525	- 000525	- 000525	- 000525	n/a		
13	Grease Fitting	- 000020	- 000020	- 000020	- 000021	- 000021		
14	Shear Bolt	- 000509	- 000505	- 000511	- 000507	- 000512		
15	Collar Kit 1-3/8	- 000628	- 000628	- 000628	- 000628	- 000628		
	Collar Kit 1-3/4	n/a	n/a	n/a	- 000629	- 000629		
16	Shear Assy. 1-3/8 Z6	- 220001	- 24001	- 250016	- 260006	- 280001		
	Shear Assy. 1-3/4 Z20					- 280004		



NOTE: When ordering add the suffix "5450" before the order numbers (ie: Poly Bolt Shaft Size 10 - 5450-000019)

Shields available as complete only.

PN'S	Shaft Size
5450 - 220214	20
5450 - 240214	40
5450 - 250214	50
5450 - 260214	60
5450 - 286049	80

Parts shown for assembly purposes only.

NOTE: 1000 series blowers use shaft size 20. 2000 series blowers use shaft size 40. 3000 series blowers use shaft size 50 for 78 & 84, shaft size 60 for 90 & 96. 4000 series blowers use shaft size 80.

WARRANTY POLICY

Warranty Coverage

Warranty covers all defects in workmanship or materials on your Agro Trend Mfg. equipment under normal use.

Warranty Period

The warranty coverage runs for 12 months from the date of purchase. The warranty applies only to the original owner and is not transferable to another party. The dealer must perform pre-delivery inspection prior to delivery or warranty shall be void.

How To Obtain

Customer will return his unit to his local dealer. If the dealer agrees with warranty, then he must notify Agro Trend Mfg. and receive pre-authorization. The dealer will then send the parts and proof of purchase within 21 days of authorization to Agro Trend Mfg. prepaid for inspection and final approval.

Not Covered By This Warranty

Agro Trend Mfg. will not assume any expense or liability for repairs made outside our plant without consent. We are not responsible for damage to any associated equipment or product and will not be liable for loss of profit or other special damages including personal injury.

The obligation of this warranty is in lieu of all other warranties, expressed or implied. Damages caused by normal wear and tear, misuse, abuse, neglect, accident or improper maintenance are not covered by this warranty.

Agro Trend Mfg, reserves the right to make changes in design and improvements upon its products without imposing any obligation upon itself to install the same upon its existing products, or products in the process of manufacture.

Terms & Conditions

Standard

Net 15 and 30 days from date of invoiced and subject to prior credit approval and arrangements. Interest at the rate of 2% per month will be charged on past due accounts.

Conditions

ALL goods are F.O.B. Clifford, Ontario.

Returned Goods

No merchandise is to be returned without written authorization from Agro Trend Mfg. Returned goods with written authorization must be pre-paid and will be subject to a minimum 20% restocking charge.

01/26/2001



DIVISION OF ROJAC INDUSTRIES

Plant: 12 Mill St., Clifford, Ont. N0G 1M0 Office / Mail: Box 86, Listowel, Ont. N4W 3H2

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