



**OPERATOR'S / PARTS
MANUAL**



***Snowblowers*
Models**

P-540

P-620

P-680 & P-680TRC

P-720 & P-720TRC

P-720-74 & P-720TRC-74

P-720-80

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INTRODUCTION

CONGRATULATIONS!

Thank you for choosing PRONOVOST. We are confident this equipment will meet your requirements in terms of quality, performance and reliability.

This manual was prepared to assist you in the safe operation of your new Snowblower. It contains important information which will help you achieve excellent returns with your Snowblower for years to come.

Please read this manual completely before operating your Snowblower and keep it for future reference.

Before starting the machine, you or any other person who will be operating the Snowblower must familiarize yourself with the safety recommendations and the operating instructions. Please read carefully and be sure to understand and follow all recommendations and procedures.

In this manual, the right and left sides are identified as shown on Figure 1.

If you require additional information on your Snowblower, please contact your PRONOVOST Dealer.

NOW take a moment to enter the model, serial number and the date of purchase of your Snowblower in the space provided.

When ordering parts from your Dealer, please refer to these numbers for a fast and efficient service. Use PRONOVOST parts for replacement.

The model and serial numbers are on the name plate shown on Fig. 1.

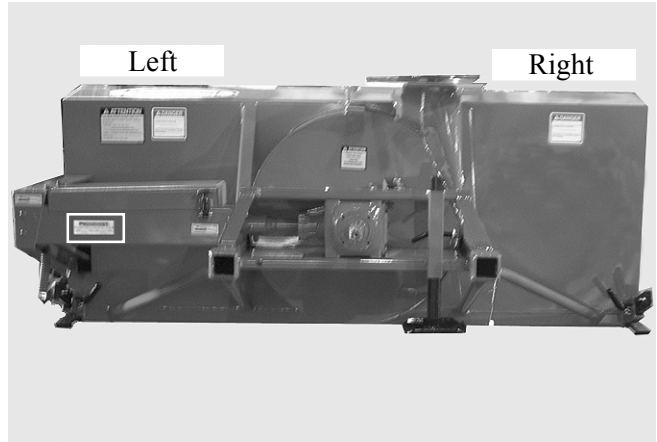


Figure 1

MODEL: _____ ✍

SERIAL NO: _____ ✍

DATE OF PURCHASE: _____ ✍

SAFETY

GENERAL SAFETY

2

WHEN YOU SEE THIS SYMBOL



ATTENTION!

**BE ALERT
YOUR SAFETY IS INVOLVED**

This symbol «**SAFETY ALERT**» is used in this manual and on the safety decals on the Snowblower. It warns you of the possibility of danger. Carefully read, understand and follow all safety recommendations before operating the Snowblower.

- 1) Careful operation is the best assurance against accidents. Carefully read this manual and follow all recommendations before operating your Snowblower. It is the owner's responsibility to make sure that anyone who will operate the Snowblower will read this manual before operating the equipment.
- 2) Familiarize yourself with all controls and always be ready to stop the Snowblower quickly in case of emergency.
- 3) Never let a child operate the Snowblower.
- 4) Do not modify the Snowblower. Any non authorized modification may affect the efficiency and/or safety of the equipment and will automatically void the warranty.
- 5) Never operate the Snowblower with defective parts or if damaged in any way. Have it repaired before operating.
- 6) Make sure all fasteners are in place and properly secured or tightened. Refer to torque chart on page 38.
- 7) Avoid wearing loose fitting clothing when working with the Snowblower. These could get entangled in moving parts of the equipment and cause accidents.

- 8) Prolonged exposure to noise may hamper hearing. Protect yourself by wearing adequate protection devices.
- 9) Hydraulic fluids under pressure can damage your skin. Do not use your hands to locate a leak.
- 10) Before the beginning of the snow season, inspect all areas where the Snowblower will be used and remove any object which may cause an accident and/or damage the equipment.
- 11) Never operate your Snowblower in poor visibility or without proper lighting conditions.

SAFETY IN OPERATION

- 1) Be sure there are no obstructions around the equipment and that no one stands near the equipment when in operation.
- 2) Do not operate an engine in a confined or non ventilated area.
- 3) Do not perform any adjustments, cleaning, maintenance or repairs with the engine running. The engine must be stopped and the P.T.O. disengaged. Preferably remove the key from the ignition.
- 4) Wear adequate clothing when working in cold or windy conditions.
- 5) Adjust skid shoes for proper ground clearance of scraper blade, especially in rough terrain or soft ground conditions.
- 6) Before operating, make sure the P.T.O. is properly installed and secured.
- 7) Before starting-up the Snowblower, make sure the auger and drum areas are free of ice.
- 8) Put P.T.O. control in neutral position before starting engine.
- 9) Keep hands, feet and clothing away from moving parts of the Snowblower. Stay away from the discharge chute.

SAFETY (cont'd)

- 10) Before unplugging the chute, always disengage the P.T.O., stop the engine and relieve all hydraulic pressures.
- 11) Do not operate in excessive inclined conditions. Be careful when turning in slopes.
- 12) Never operate your Snowblower with missing guards or without protective devices in place.
- 13) Do not operate your Snowblower near buildings, windows or other vehicles without prior and proper adjustment of the chute deflector.
- 14) Never aim discharge chute towards people or animals. This may cause serious injuries.
- 15) Always reduce operating speed in slippery conditions.
- 16) Be careful when backing-up, make sure you have good visibility.
- 17) Always be on the lookout for objects which may enter the Snowblower.
- 18) If undue vibrations are felt, disengage the P.T.O., stop the motor and look for the cause of the vibration. Vibration is usually the indication of a problem.
- 19) At the end of the operation, disengage the P.T.O., lower the Snowblower, put transmission in neutral, apply parking brake, stop engine and remove the key from the ignition.

SAFETY WITH MAINTENANCE

- 1) Perform the Snowblower maintenance according to recommendations contained in this manual.

- 2) Stop engine and relieve all hydraulic pressures before doing inspection, maintenance or repairs.
- 3) Never perform any work under the Snowblower while it is supported only by the tractor's hydraulic system. It must be completely supported by wooden blocks or other safe means.

2

SAFETY IN TRANSPORT

- 1) On public roads, use proper safety lights and check local regulations.
- 2) Be alert while driving on the road. Never carry passengers.
- 3) Always disengage P.T.O. while moving from one area of work to another.
- 4) It is recommended to use both brake pedals simultaneously for better control.
- 5) The recommended road speed should be such as to maintain full control over steering and braking.
- 6) Be careful while backing up, make sure you have good visibility.

SAFETY IN STORAGE

- 1) Provide adequate supports to prevent any accidental overturning of the Snowblower.
- 2) Do not let children play in the area where the Snowblower is stored.

DECALS

SAFETY DECALS

The safety decals are affixed wherever special safety precautions are indicated. Locate them on the machine and read them carefully. If a decal is damaged, lost or illegible, install a new one. The following photos indicate where each one must be installed.

3

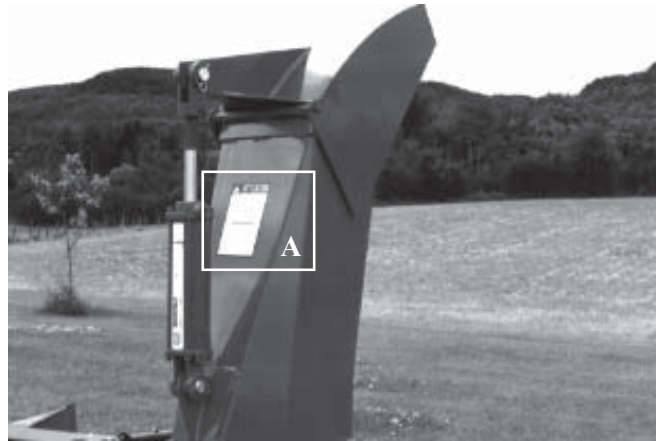


Figure 3

! ATTENTION

- 1- FOR SAFE OPERATION, FOLLOW OPERATING INSTRUCTIONS IN OPERATOR'S MANUAL.
- 2- KEEP HANDS, FEET AND CLOTHINGS AWAY FROM POWER DRIVEN PARTS.
- 3- STOP ENGINE BEFORE LEAVING THE EQUIPMENT.
- 4- MACHINE HAS TO BE COMPLETELY STOPPED BEFORE STARTING TO ADJUST OR LUBRICATE.
- 5- KEEP PEOPLE AND PETS AT SAFE DISTANCE FROM MACHINE.
- 6- KEEP ALL GUARDS AND SHIELDS IN PLACE.

- 1- POUR UN FONCTIONNEMENT SÉCURITAIRE SUIVRE LES INSTRUCTIONS DANS LE MANUEL D'OPÉRATION.
- 2- GARDER LES MAINS, PIEDS ET VÊTEMENTS ÉLOIGNÉS DES ÉLÉMENTS MOBILES OU ROTATIFS.
- 3- AVANT DE QUITTER LA MACHINE ARRÊTER LE MOTEUR.
- 4- ARRÊTER COMPLÈTEMENT LA MACHINE POUR EFFECTUER L'ENTRETIEN ET L'AJUSTEMENT.
- 5- GARDER LES GENS ET LES ANIMAUX À UNE DISTANCE SÉCURITAIRE.
- 6- GARDER TOUS LES ÉCRANS PROTECTEUR EN PLACE.

PA 93-01

Figure 2
Decal A

Part no.: A102

! DANGER

TO AVOID SERIOUS INJURIES, KEEP CLEAR OF EQUIPMENT WHILE IN OPERATION.

POUR ÉVITER DES BLESSURES GRAVES SE TENIR LOIN DE CET ÉQUIPEMENT LORSQU'IL EST EN MARCHÉ.

PD 93-03

Figure 4
Decal B

Part no.: A101

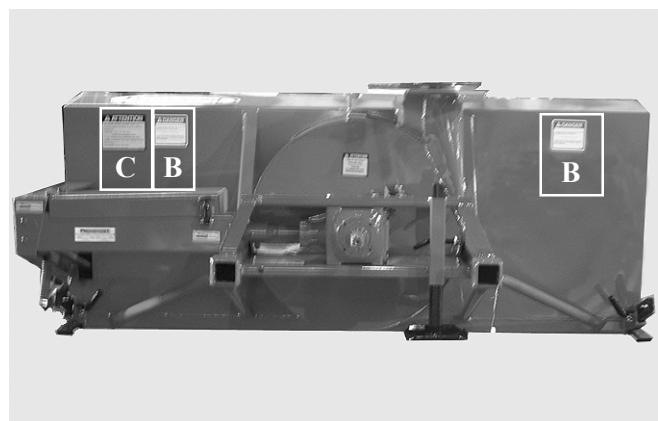


Figure 5

DECALS (cont'd)

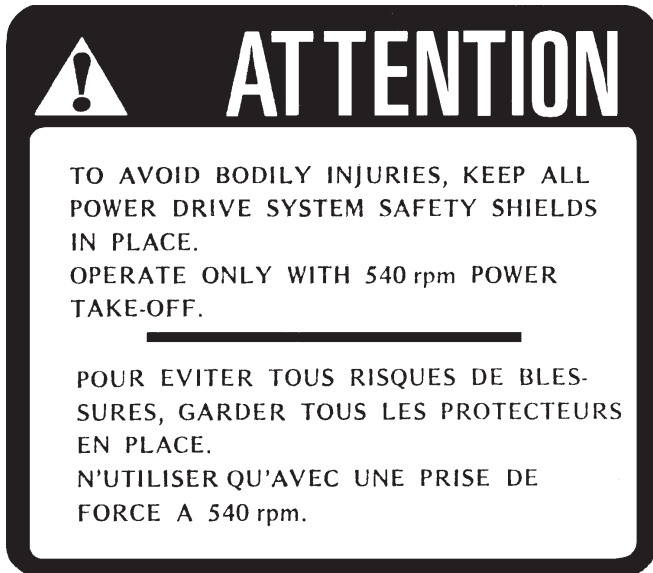


Figure 6
Decal C Part no.: A107



Figure 7
Decal D Part no.: A103

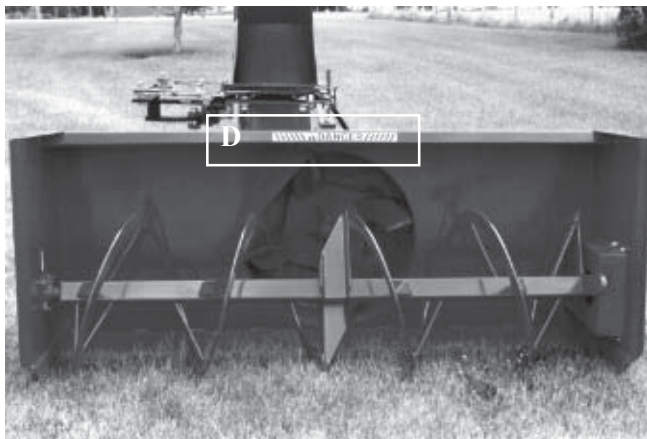


Figure 8

Decal E in Fig. 9 is located directly on the P.T.O. shaft. It is not visible when the safety shield is in place. It must never be visible when you operate the equipment.



Figure 9
Decal E Part no.: A108

3

DECALS (cont'd)

3



Figure 10
Decal F

Part no.: A 109

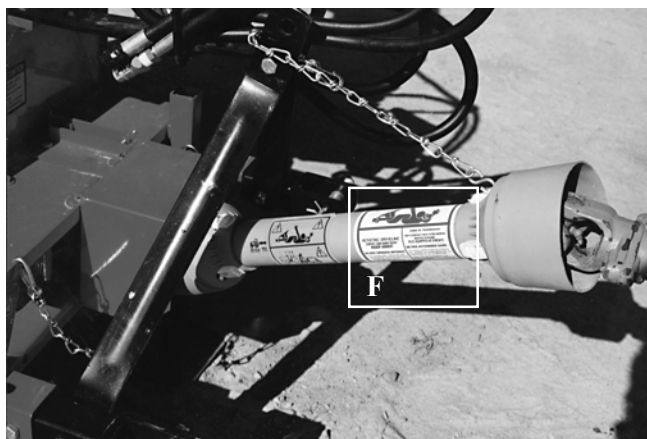
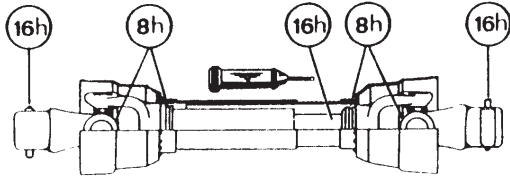


Figure 11

MAINTENANCE DECALS

The maintenance decals indicate the points requiring lubrication. Refer to maintenance section for more details.

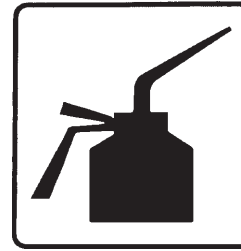


Figure 12

Part no.: A 105



Figure 13

Part no.: A 106



Figure 14
Decal G

Part no.: A104

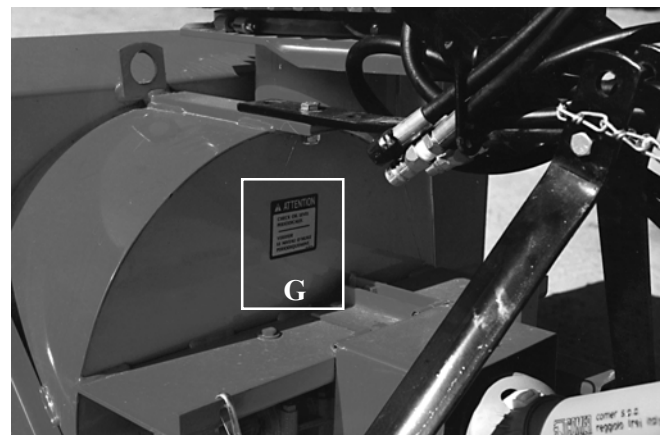


Figure 15

ASSEMBLY



Figure 16



Figure 17

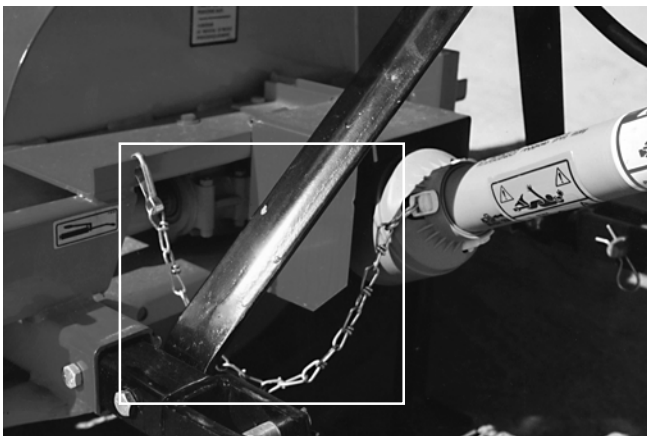


Figure 18

ASSEMBLY

- 1) The Snowblower is shipped partly assembled.
- 2) Install 3-point system according to the model of your Snowblower. (See section 10 for parts numbers). Use the holes most convenient to the type of tractor used (Fig. 16).
- 3) Install P.T.O. shaft with the shear pin end onto the Snowblower gear box (Fig. 17). Then attach safety shield support chain as shown (Fig. 18).
WARNING: The telescoping tubes of the drive shaft must never be allowed to bottom out while maintaining a minimum overlap of 6 inches.
- 4) If you install a hydraulic cylinder on the chute deflector, use model 25TR04 cylinder.
- 5) For the installation of the chute rotation mechanism, please refer to page 30 through 31, according to the type used.

4

STARTING-UP



Figure 31

5



Figure 32

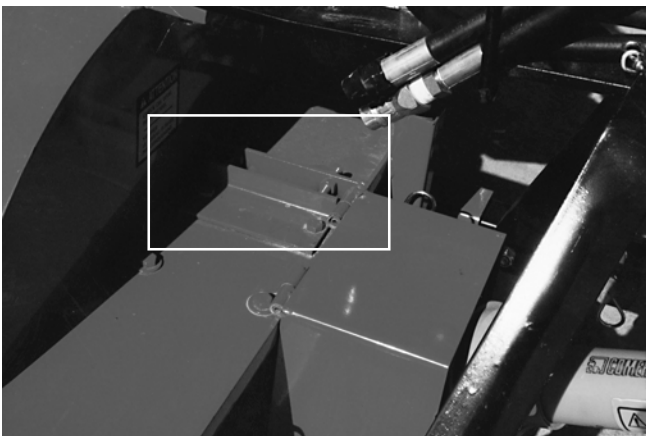


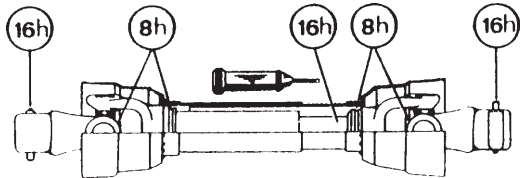
Figure 33

START-UP PROCEDURES

- 1) Check oil level in gearbox. Use S.A.E. W90 gear box oil.
- 2) Lubricate all points with a good quality multipurpose grease.
- 3) Check chain take-up adjustment. The spring maintaining the tension must be compressed to a length between 3" and 3½".
- 4) Verify for adequate tightness of all fastening devices. Refer to torque chart on page 38.
- 5) Adjust skid shoes according to ground conditions (Fig. 31).
- 6) Following the installation of the Snowblower on the tractor, **do not forget** to lift the storage support (Fig. 32).
- 7) Make sure of a 540 RPM input to your Snowblower.
- 8) Check impeller adjustment. The tip of the blades should be approximately 1/8" to 3/16" from the discharge wall of the drum. If necessary, adjust with the take-up screws provided (Fig. 33).

MAINTENANCE

- 1) Wipe off all grease fittings with a clean cloth before adding grease in order to avoid injecting dirt and sand.
- 2) Repair or replace damaged grease fittings.
- 3) Lubricate all grease fittings every 8 hours of operation.
- 4) Oil drive chain every 8 hours of operation.
- 5) Lubricate P.T.O. shaft as indicated below:



Pull out the P.T.O. and lubricate between the two tubes with low temperature grease.

- 6) Check oil level in gear box once a month. If necessary add oil.
- 7) Check tension of drive chain every 24 hours of operation and adjust if necessary.
- 8) Check for tightness of bearing collars every 48 hours of operation.
- 9) Change gearbox oil once a year. Use gear box oil S.A.E. W90 rated API, class GL-5.
- 10) Check all nuts and bolts once a year. If necessary use torque chart on page 38.
- 11) Always use Grade 5 shear bolts.

STORAGE

- 1) Store the Snowblower in a cool, dry place.
- 2) Support the Snowblower with wooden blocks.
- 3) Keep all piston rods in the retracted position. This will assure better protection against the elements.
- 4) Clean your Snowblower.
- 5) Thoroughly inspect all parts of the Snowblower. Replace or repair worn or defective parts.
- 6) Touch-up or repaint if necessary.
- 7) Lubricate all points before storage.

TROUBLESHOOTING

P.T.O. SHAFT

PROBLEM	POSSIBLE CAUSE	CORRECTION
- Premature wear of U-joints and/ or bluish color of cross journals.	- Insufficient lubrication. - Excessive working angle. - Poor quality lubricant.	- Follow lubrication recommendations. - Replace defective U-joints. - Make sure the Snowblower inlet face is perpendicular to the ground and if possible readjust 3-point hitch in order to position the Snowblower further away from tractor. - Use high quality lubricant.
- Gripping or premature wear of telescoping members.	- Too much sliding under load. - Tube overlap too-short: minimum recommended is 6". - Insufficient lubrication. - Contaminants (sand, etc.).	- Avoid raising Snowblower while in operation. - Readjust 3-point hitch in order to position the snowblower closer to the tractor. - Follow lubrication recommendations. - Replace defective telescopic members.
- Damaged or jammed locking pin or bolt.	- Pin or orifice contaminated by sand, ice, etc. - Telescoping members too long, exerting pressure on locking device.	- Clean and grease. - Readjust 3-point hitch in order to position the Snowblower further away from tractor or shorten tubes.
- Premature wear of guard tube bearing ring.	- Lack of lubrication. - Wrong installation of guard chain. - Part of the guard in contact with the equipment.	- Follow lubrication instructions. - Adjust chain to prevent interference between guard & equipment. - Replace worn or damaged bearing rings.
- Cut or deformed safety guard tubes.	- Tubes in contact with the equipment.	- Eliminate any interference between tubes and equipment or tractor. - Replace damaged tubes.

TROUBLESHOOTING (cont'd)

SNOWBLOWER

PROBLEM	POSSIBLE CAUSE	CORRECTION
- The snow is not being thrown as far as usual.	- Tractor RPM too low. - Gap too wide between impeller blade tip and drum outlet wall. - Insufficient tractor HP.	- Raise P.T.O. speed to a minimum of 540 RPM. - Adjust impeller blades closer to drum outlet (1/8" to 3/16"). - Reduce travel speed.
- Frequent plugging of discharge chute.	- Tractor RPM too low. - Tractor RPM reduced too early with snow still in the Snowblower. - Slippage of PTO clutch mechanism. - Wet snow condition.	- Raise P.T.O. speed to a minimum of 540 RPM. - Make sure the Snowblower is completely empty before reducing RPM, especially on tractors with foot controlled RPM. - Repare clutch. - Reduce travel speed.
- The impeller will not turn.	- Shear bolt broken on drive shaft.	- Replace shear bolt.
- The auger will not turn.	- Shear bolt broken on drive shaft. - Shear bolt broken on auger drive shaft. - Broken drive chain.	- Replace shear bolt. - Replace shear bolt. - Fix or replace chain.
- The rotating drum will not turn.	- Rotating drum shear bolt broken. - Ice accumulation. - Wrong hydraulic connections.	- Replace shear bolt. - Remove ice. - Check hydraulic connections.
- The chute will not turn.	- Ice accumulation. - Wrong hydraulic connections.	- Remove ice. - Check hydraulic connections.

8

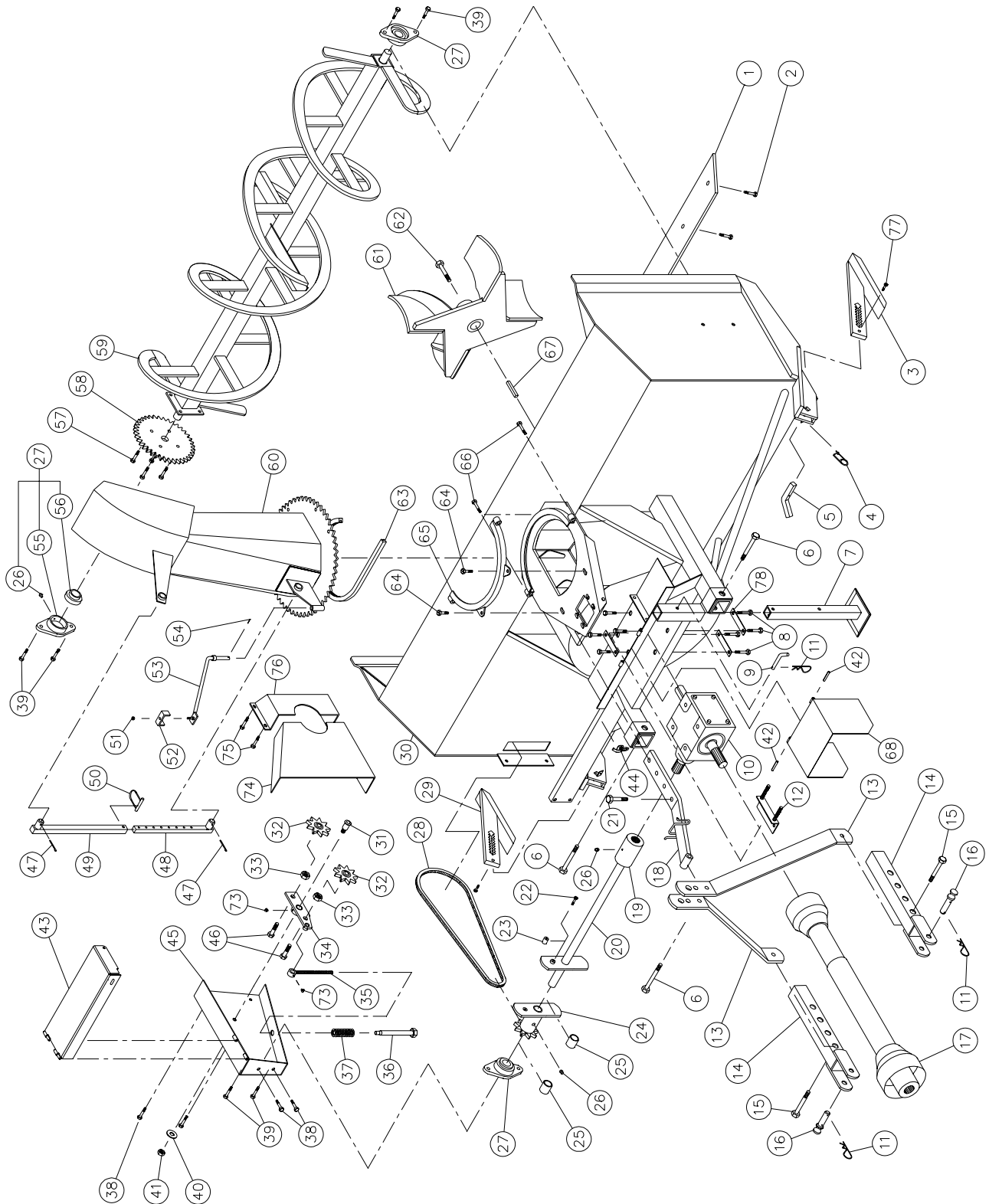
SPECIFICATIONS

Snowblower model	P-540	P-620	P-680	P-680 TRC	P-720	P-720 TRC	P-720 -74	P-720 TRC-74	P-720 -80
Horse power recommended (HP) min-max	18-25	18-25	25-35	25-35	25-35	25-35	25-35	25-35	25-35
Working width	(inches)	54"	62"	68"	68"	72"	72"	74"	80"
	(centimetre)	137	157	173	173	183	183	188	203
Cutting height	(inches)	28"	28"	30"	30"	30"	30"	30"	30"
	(centimetre)	71	71	76	76	76	76	76	76
Impeller diameter	(inches)	22"	22"	24"	24"	24"	24"	24"	24"
	(centimetre)	56	56	61	61	61	61	61	61
Depth of drum	(inches)	9"	9"	10 1/2"	10 1/2"	10 1/2"	10 1/2"	10 1/2"	10 1/2"
	(centimetre)	22.9	22.9	26.7	26.7	26.7	26.7	26.7	26.7
Impeller blades		4	4	4	4	4	4	4	4
Size of impeller shaft	(inches)	1 1/4"	1 1/4"	1 9/16"	1 9/16"	1 9/16"	1 9/16"	1 9/16"	1 9/16"
	(centimetre)	3.18	3.18	3.97	3.97	3.97	3.97	3.97	3.97
Impeller RPM		540	540	540	540	540	540	540	540
Number of augers		1	1	1	1	1	1	1	1
Main auger diameter	(inches)	16"	16"	19"	19"	19"	19"	19"	19"
	(centimetre)	41	41	48.7	48.7	48.7	48.7	48.7	48.7
Upper auger 13" (33 cm) diameter		-	-	-	-	-	-	-	-
Drive chain - main auger		50	50	60	60	60	60	60	60
Oil bath sealed gear box		Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Choice of chute rotation mechanism	Manual	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.
	Hydraulique M (motor)	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.
Number of shear bolt		1	1	1	1	1	1	1	1
Heavy duty 3-point		-	-	-	-	-	-	-	-
Hitch category		1	1	1	1	1	1	1	1
Balanced impeller		Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Balanced auger		Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Drum rotation mechanism	Hydraulic C (cylinder)	-	-	-	-	-	-	-	-
	Hydraulic M (motor)	-	-	-	Std.	-	Std.	-	Std.
1000 / 540 reducer		-	-	-	-	-	-	-	-
Scraper blade	Steel - not reversible	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
	Carbon steel - not rev.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Adjustable skid shoes	Standard steel	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
	Carbon steel	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Full flight upper auger		-	-	-	-	-	-	-	-
Semi industrial chute		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Industrial chute		-	-	-	-	-	-	-	-
24" (61 cm) chute extension		-	-	-	-	-	-	-	-
48" (122 cm) chute extension		-	-	-	-	-	-	-	-
Choice of deflector adjustment	Rod and tube	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.
	Cylinder	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.	Disp.
Bearing / ductile iron casing		Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Height - Impeller center	(inches)	14"	14"	15"	15"	15"	15"	15"	15"
	(centimetre)	35.6	35.6	38.1	38.1	38.1	38.1	38.1	38.1
Lateral blades		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
P.T.O. shaft standard		No. 2	No. 2	No. 4	No. 4	No. 5	No. 5	No. 5	No. 5
P.T.O. shaft intensive use		-	-	-	-	-	-	-	-
Weight (approx.)	(livres)	550	575	707	790	712	808	717	826
	(kilos)	248	259	319	356	321	364	323	372

Design and specifications subject to change without notice.

SNOWBLOWERS P-540 P-620

170-02607



10

SNOWBLOWERS P-540 P-620 (cont'd)

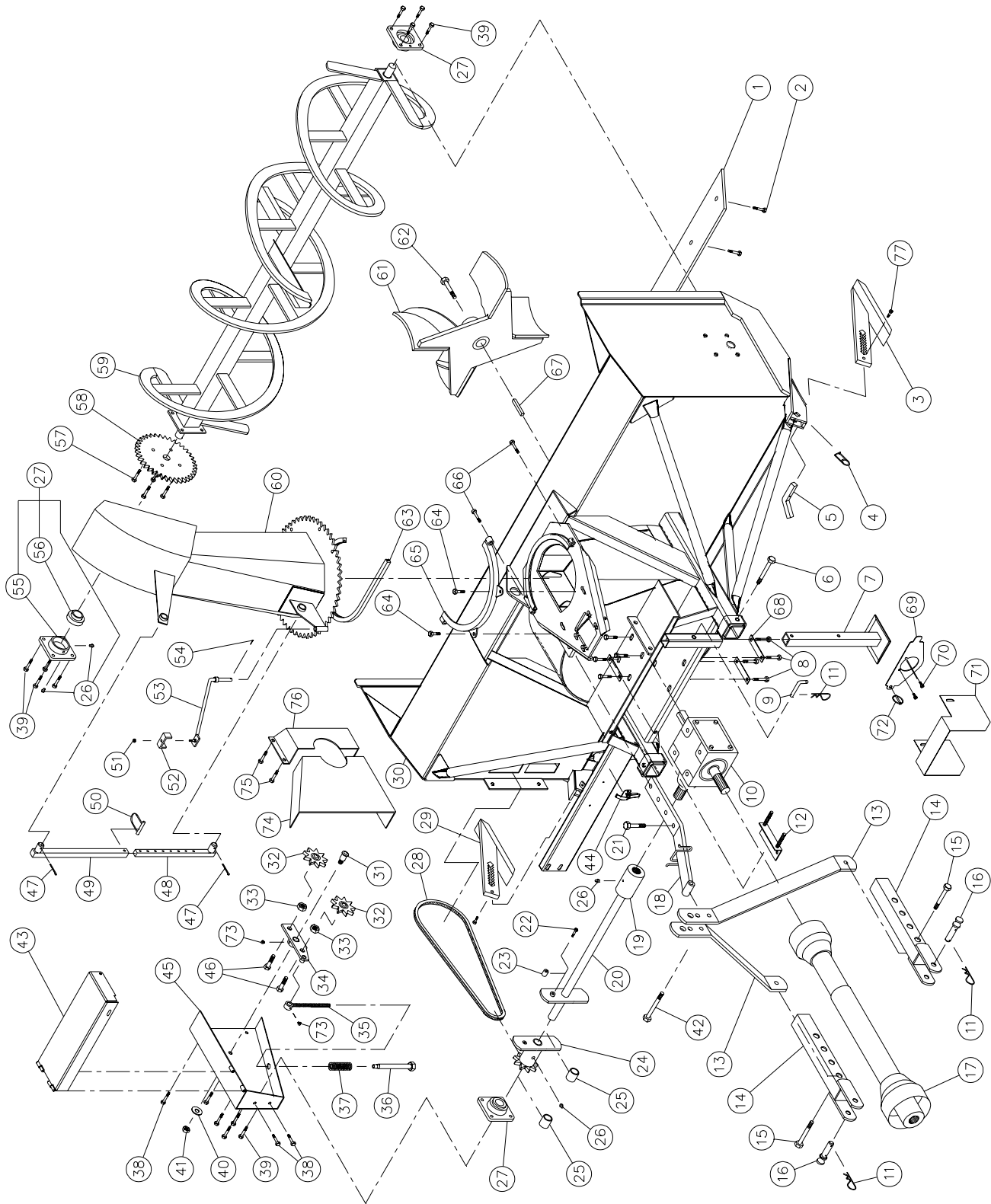
REF.	PART #	DESCRIPTION	QTY	
			P-540	P-620
1	140-01251	Scraper blade (not reversible) 3/8" x 2 1/2" x 50 1/4" lg	1	-
1	140-01261	Scraper blade (not reversible) 3/8" x 2 1/2" x 58 1/4" lg	-	1
2	319-38310	Plow bolt 7/16" NC x 1 1/2" lg + nut & lock washer	5	6
3	110-05541	Skid shoe (right side)	1	1
4	6561	Safety square pin 2mm x 58 mm	2	2
5	140-03261	Skid shoes lock	2	2
6	300-40430	Bolt 1/2" NC x 3 1/2" lg + nylon locknut	3	3
7	6520	Storage support	1	1
8	300-36550	Bolt 3/8" NC x 5 1/2" lg + nylon locknut	4	4
9	6521	Storage support pin	1	1
10	6451	Gear box T281	1	1
11	Std.	Hitch pin clip 5/32"	3	3
12	6522	Adjustment plate for gear box + 4 nuts 3/8" NC	1	1
13	6517	3-point side bar	2	2
14	6252	Lower hitch (right & left)	2	2
15	300-40400	Bolt 1/2" NC x 3" lg + nylon locknut	2	2
16	6253	Pin category 1	2	2
17	6408-E	P.T.O. shaft	1	1
18	6504	Upper hitch	1	1
19	6466	Splined adaptor 1 1/4"-19	1	1
20	6441	Auger drive shaft 20 5/8" lg overall (including no. 19 & 23)	1	-
20	6442	Auger drive shaft 24 5/8" lg overall (including no. 19 & 23)	-	1
21	300-40325	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	1	1
22	300-32340	Bolt 1/4" NC x 2" lg grade 5 + nylon locknut	1	1
23	150-01491	Welded bushing 1/4" i.d. x 7/8" o.d. x 3/4" lg	2	2
24	6287	Sprocket #50 + shearplate	1	1
25	8009	Brass bushing 1 1/4" i.d. x 1 1/2" o.d. x 1 3/16" lg	2	2
26	Std.	Grease fitting 1/4"-28 straight	5	5
27	UCFLD205-16	Bearing 1" + flange	3	3
28	190-01421	Chain #50 x 59 3/8" lg (95 links)	1	1
28	26A50	Connecting ling no. 50	1	1
28	59-50	Offset link no. 50	1	1
29	110-04361	Skid shoe (left side)	1	1
30	120-03483	Frame P-540	1	-
30	120-03503	Frame P-620	-	1
31	150-00461	Idler clevis pin	1	1
32	6604	Idler sprocket #50	2	2
33	160-01612	Spacer	2	2
34	110-01971	Idler	1	1
35	110-01991	Threaded rod for idler adjustment + nut 7/16" NC	1	1
36	110-01981	Threaded tube for idler adjustment	1	1
37	6538	Compression spring	1	1
38	300-36250	Bolt 3/8" NC x 1" lg + nylon locknut	4	4
39	300-40280	Bolt 1/2" NC x 1 1/4" lg + nylon locknut thin	6	6
40	376-40000	Flat washer 1/2"	1	1
41	346-41000	Nylon locknut 1/2" NC thin	1	1
42	Std.	Roll pin 5/16" x 2" lg	2	2
43	110-21291	Chain guard cover	1	-
43	110-21301	Chain guard cover	-	1
44	8373	Clamp fastener (welded)	1	1
45	110-02233	Chain guard	1	1
46	300-40340	Bolt 1/2" NC x 2" lg + nylon locknut	2	2
47	Std.	Cotter pin 5/32" x 2" lg (2)	opt.	opt.
48	6438	Chute adjusting rod (1)	opt.	opt.
49	6439	Chute adjusting tube (1)	opt.	opt.
50	8112	Lock pin 1/4" (1)	opt.	opt.
51	346-34000	Nylon locknut 5/16" NC (1)	opt.	opt.
52	140-00881	Hoses mounting plate (1)	opt.	opt.
53	110-01121	Mounting support plate (1)	opt.	opt.
54	Std.	Cotter pin 1/8" x 1" lg (1)	opt.	opt.
55	FLD205	Flange	3	3
56	UC205-16	Bearing 1"	3	3

SNOWBLOWERS P-540 P-620 (cont'd)

REF.	PART #	DESCRIPTION	QTY	
			P-540	P-620
57	300-36280	Bolt 3/8" NC x 1 1/4" lg + two-way locknut	4	4
58	6288	Sprocket 50 A36 T 1" ø	1	1
59	6281	Auger P-540	1	-
59	6282	Auger P-620	-	1
60	120-01501	Chute (for model PSI-5472 see page 29)	opt.	opt.
61	110-02242	Impeller 22" ø 4 blades	1	1
62	300-36250	Impeller cap screw 3/8" NC x 1" lg (ass'd with locktite 242) + lock washer	1	1
63	6471	U-shaped UHMW ± 12" ø i.d.	1	1
64	300-38280	Bolt 7/16" NC x 1 1/4" lg + nylon lock nut & flat washer	2	2
65	110-02001	Retaining bracket	1	1
66	300-34370	Bolt 5/16" NC x 2 1/2" lg + nylon locknut	2	2
67	6276	Square key 1/4" x 1/4" x 1 3/4" lg	1	1
68	110-13361	Hinged P.T.O. shroud	1	1
73	Std.	Grease fitting 1/4"-28 90 deg.	2	2
74	130-15451	Interior guard (welded)	1	1
75	300-36250	Bolt 3/8" NC x 1" lg + nylon locknut & flat washer	4	4
76	130-15431	Interior guard (bolted)	1	1
77	300-32310	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2	2
78	140-11101	Back plate	3	3

SNOWBLOWERS P-680 P-720 P-720-74 P-720-80

170-02945



SNOWBLOWERS P-680 P-720 P-720-74 P-720-80 (cont'd)

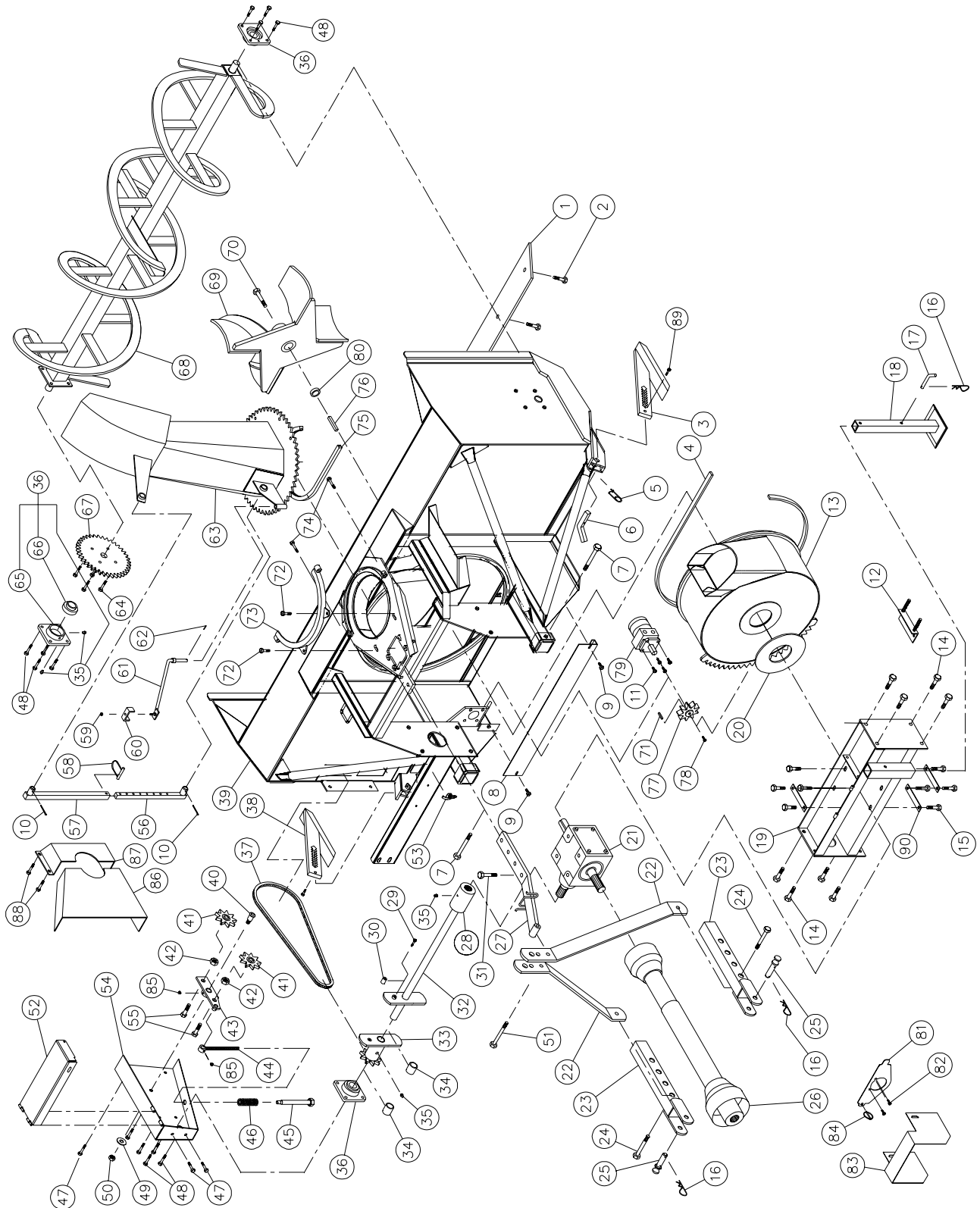
REF.	PART #	DESCRIPTION	QTY			
			P-680	P-720	P-720-74	P-720-80
1	140-01271	Scraper blade (not reversible) 3/8" x 2 1/2" x 76 1/4" lg	1	-	-	-
1	140-01281	Scraper blade (not reversible) 3/8" x 2 1/2" x 68 1/4" lg	-	1	-	-
1	140-11181	Scraper blade (not reversible) 3/8" x 2 1/2" x 70 1/4" lg	-	-	1	-
1	140-14131	Scraper blade (not reversible) 3/8" x 2 1/2" x 70 1/4" lg	-	-	-	1
2	319-38310	Plow bolt 7/16" NC x 1 1/2" lg + nut & lock washer	7	7	7	8
3	110-05541	Skid shoe (right side)	1	1	1	1
4	6561	Safety square pin 2mm x 58 mm	2	2	2	2
5	140-03261	Skid shoes lock	2	2	2	2
6	300-40460	Bolt 1/2" NC x 4" lg + nylon locknut	2	2	2	2
7	6520	Storage support	1	1	1	1
8	300-40250	Bolt 1/2" NC x 1" lg + lock washer	8	8	8	8
9	6521	Storage support pin	1	1	1	1
10	8251	Gear box T27D	1	1	1	1
11	Std.	Hitch pin clip 5/32"	3	3	3	3
12	8199	Adjustment plate for gear box + 4 nuts 1/2" NC	1	1	1	1
13	6519	3-point side bar	2	2	2	2
14	6252	Lower hitch (right & left)	2	2	2	2
15	300-40400	Bolt 1/2" NC x 3" lg + nylon locknut	2	2	2	2
16	6253	Pin category 1	2	2	2	2
17	6248-EG	P.T.O. shaft	1	-	-	-
17	8114-EG	P.T.O. shaft	-	1	1	1
18	6505	Upper hitch	1	1	1	1
19	6466	Splined adaptor 1 1/4"-19	1	1	1	1
20	110-07902	Auger drive shaft 24 5/16" lg overall (including no. 19 & 23)	1	-	-	-
20	110-07912	Auger drive shaft 26 5/16" lg overall (including no. 19 & 23)	-	1	-	-
20	110-16331	Auger drive shaft 27 5/16" lg overall (including no. 19 & 23)	-	-	1	-
20	110-22801	Auger drive shaft 30 5/16" lg overall (including no. 19 & 23)	-	-	-	1
21	300-40325	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	1	1	1	1
22	300-32340	Bolt 1/4" NC x 2" lg grade 5 + nylon locknut	1	1	1	1
23	150-01491	Welded bushing 1/4" i.d. x 7/8" o.d. x 3/4" lg	2	2	2	2
24	6260	Sprocket #60 + shearplate	1	1	1	1
25	8009	Brass bushing 1 1/4" i.d. x 1 1/2" o.d. x 1 3/16" lg	2	2	2	2
26	Std.	Grease fitting 1/4"-28 straight	8	8	8	8
27	UCFD207-20	Bearing 1 1/4" + flange + 2 grease fitting (straight)	3	3	3	3
28	190-04702	Chain #60 x 69" lg	1	1	1	1
28	26A60	Connecting link no. 60	1	1	1	1
28	59-60	Offset link no. 60	1	1	1	1
29	110-04361	Skid shoe (left side)	1	1	1	1
30	120-03523	Frame P-680	1	-	-	-
30	120-03543	Frame P-720	-	1	-	-
30	120-04112	Frame P-720-74	-	-	1	-
30	120-04571	Frame P-720-80	-	-	-	1
31	150-00332	Idler clevis pin	1	1	1	1
32	8186	Idler sprocket #60	2	2	2	2
33	336-44000	Nut 5/8" NC	2	2	2	2
34	110-16361	Idler	1	1	1	1
35	110-16321	Threaded rod for idler adjustment + nut 7/16" NC	1	1	1	1
36	110-01981	Threaded tube for idler adjustment	1	1	1	1
37	6538	Compression spring	1	1	1	1
38	300-36250	Bolt 3/8" NC x 1" lg + nylon locknut	4	4	4	4
39	300-40310	Bolt 1/2" NC x 1 1/2" lg + nylon locknut thin	12	12	12	12
40	376-44000	Flat washer 5/8"	1	1	1	1
41	346-45000	Nylon locknut 5/8" NC thin	1	1	1	1
42	300-40430	Bolt 1/2" NC x 3 1/2" lg + nylon locknut	1	1	1	1
43	110-21311	Chain guard cover	1	-	-	-
43	110-21321	Chain guard cover	-	1	-	-
43	110-21281	Chain guard cover	-	-	1	-
43	110-22811	Chain guard cover	-	-	-	1
44	8373	Clamp fastener (welded)	1	1	1	1
45	110-18952	Chain guard	1	1	1	1
46	300-40340	Bolt 1/2" NC x 2" lg + nylon locknut	2	2	2	2

SNOWBLOWERS P-680 P-720 P-720-74 P-720-80 (cont'd)

REF.	PART #	DESCRIPTION	QTY			
			P-680	P-720	P-720-74	P-720-80
47	Std.	Cotter pin 5/32" x 2" lg (2)	opt.	opt.	opt.	opt.
48	6438	Chute adjusting rod (1)	opt.	opt.	opt.	opt.
49	6439	Chute adjusting tube (1)	opt.	opt.	opt.	opt.
50	8112	Lock pin 1/4" (1)	opt.	opt.	opt.	opt.
51	Std.	Nylon locknut 5/16" NC (1)	opt.	opt.	opt.	opt.
52	140-00881	Hoses mounting plate (1)	opt.	opt.	opt.	opt.
53	110-01121	Mounting support plate (1)	opt.	opt.	opt.	opt.
54	Std.	Cotter pin 1/8" x 1" lg (1)	opt.	opt.	opt.	opt.
55	FD207	Flange for two grease fittings	3	3	3	3
56	UC207-20	Bearing 1 1/4"	3	3	3	3
57	300-38310	Bolt 7/16" NC x 1 1/2" lg + two-way locknut	4	4	4	4
58	190-05381	Sprocket 60 A38 T 1 1/4" ø	1	1	1	1
59	110-18841	Auger P-680	1	-	-	-
59	110-18871	Auger P-720	-	1	-	-
59	110-19001	Auger P-720-74	-	-	1	-
59	110-22821	Auger P-720-80	-	-	-	1
60	120-01501	Chute (1) (for model PSIG-5472 see page 29)	opt.	opt.	opt.	opt.
61	110-18991	Impeller 24" ø 4 blades	1	1	1	1
62	300-44310	Impeller cap screw 5/8" NC x 1 1/2" lg (ass'd with locktite 242) + lock washer	1	1	1	1
63	6471	U-shaped UHMW ± 12" ø i.d.	1	1	1	1
64	300-38280	Bolt 7/16" NC x 1 1/4" lg + nylon lock nut & flat washer	2	2	2	2
65	110-02001	Retaining bracket	1	1	1	1
66	300-34370	Bolt 5/16" NC x 2 1/2" lg + nylon locknut	2	2	2	2
67	8030	Square key 3/8" x 3/8" x 3 1/2" lg	1	1	1	1
68	140-10571	Back plate	3	3	3	3
69	130-15521	Mounting plate for shroud	1	1	1	1
70	300-32016	Bolt M8 x 1.25 x 16 mm lg + lock washer	2	2	2	2
71	130-15501	Hinged P.T.O. shroud	1	1	1	1
72	Std.	Linch pin 1/4" x 1 3/4" lg	1	1	1	1
73	Std.	Grease fitting 1/4"-28 90 deg.	2	2	1	1
74	130-19432	Interior guard (welded) (from serial # 17011)	1	1	1	1
75	300-36250	Bolt 3/8" NC x 1" lg + nylon locknut & flat washer	4	4	4	4
76	130-27661	Interior guard (bolted) (from serial # 17011)	1	1	1	1
77	300-32310	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2	2	2	2

SNOWBLOWERS P-680TRC P-720TRC P-720TRC-74

170-02955



10

SNOWBLOWERS P-680TRC P-720TRC P-720TRC-74 (cont'd)

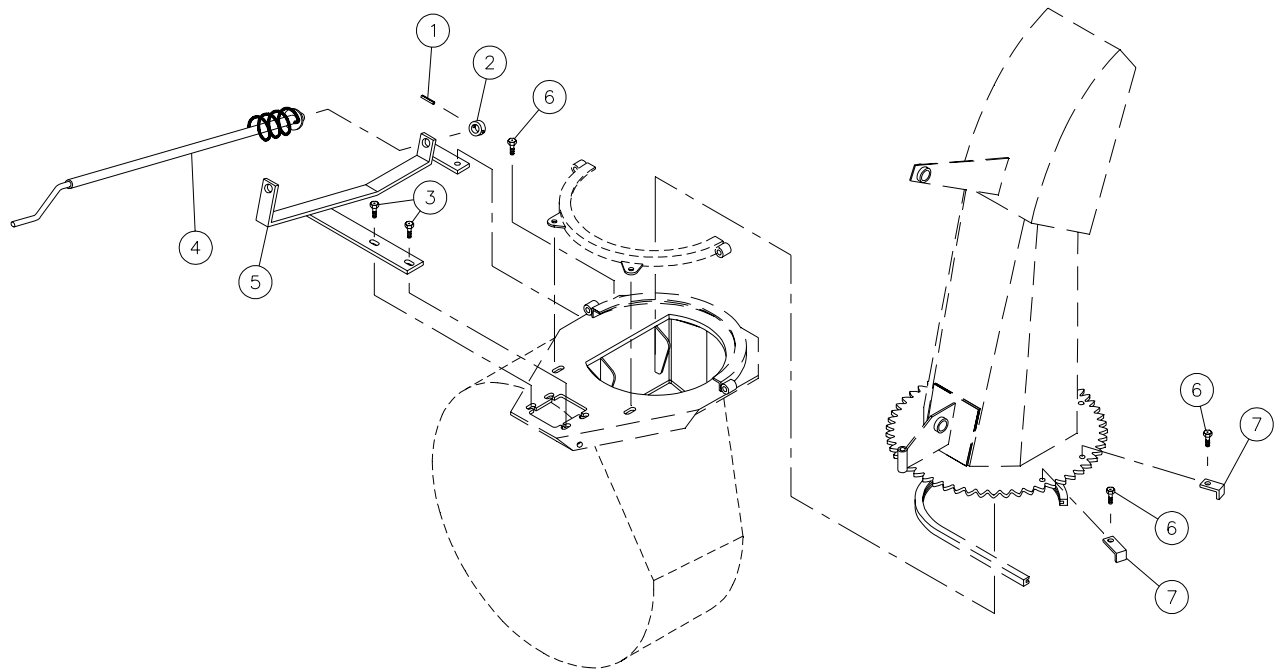
REF.	PART #	DESCRIPTION	QTY		
			P-680TRC	P-720TRC	P-720TRC-74
1	140-01271	Scraper blade (not reversible) 3/8" x 2 1/2" x 64 1/4" lg	1	-	-
1	140-01281	Scraper blade (not reversible) 3/8" x 2 1/2" x 68 1/4" lg	-	1	-
1	140-11181	Scraper blade (not reversible) 3/8" x 2 1/2" x 70 1/4" lg	-	-	1
2	319-38310	Plow bolt 7/16" NC x 1 1/2" lg + nut & lock washer	7	7	7
3	110-05541	Skid shoe (right side)	1	1	1
4	6515	U-shaped UHMW 3/8" x 9/16" x 77" lg	1	1	1
5	6561	Safety lock 2 mm x 58 mm	2	2	2
6	140-03261	Skid shoes lock	2	2	2
7	300-40460	Bolt 1/2" NC x 4" lg + nylon locknut	2	2	2
8	130-03231	Guard for ring gear segment	1	1	1
9	300-38250	Bolt 7/16" NC x 1" lg + nylon locknut & flat washer	2	2	2
10	Std.	Cotter pin 5/32" x 2" lg (2)	opt.	opt.	opt.
11	300-36250	Bolt 3/8" NC x 1" lg + lockwasher	4	4	4
12	8199	Adjustment plate for gear box + 4 nuts 1/2" NC	1	1	1
13	110-21171	Rotary drum 24" ø	1	1	1
14	300-40250	Bolt 1/2" NC x 1" lg + nylon locknut	8	8	8
15	300-40250	Bolt 1/2" NC x 1" lg + lock washer	8	8	8
16	Std.	Hitch pin clip 5/32"	3	3	3
17	6521	Storage support pin	1	1	1
18	6520	Storage support	1	1	1
19	110-05601	Gear box support	1	1	1
20	8232	UHMW flat washer 3/16" x 4 5/8" i.d. x 8 1/8" o.d.	1	1	1
21	8251	Gear box T-27D	1	1	1
22	6518	3-point side bar	2	2	2
23	6252	Lower hitch (right and left)	2	2	2
24	300-40400	Bolt 1/2" NC x 3" lg + nylon locknut	2	2	2
25	6253	Pin category 1	2	2	2
26	6248-EG	P.T.O. shaft	1	-	-
26	8114-EG	P.T.O. shaft	-	1	1
27	6503	Upper hitch	1	1	1
28	6466	Splines adaptor 1 1/4" - 19	1	1	1
29	300-32340	Safety shear bolt 1/4" NC x 2" lg grade 5 + nylon locknut	1	1	1
30	150-01491	Welded bushing 1/4" i.d. x 7/8" o.d. x 3/4" lg	4	4	4
31	300-40325	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	1	1	1
32	110-07902	Auger drive shaft 24 5/16" lg overall (including no. 28 & 30)	1	-	-
32	110-07912	Auger drive shaft 26 5/16" lg overall (including no. 28 & 30)	-	1	-
32	110-16331	Auger drive shaft 27 5/16" lg overall (including no. 28 & 30)	-	-	1
33	6260	Sprocket #60 + shearplate	1	1	1
34	8009	Brass bushing 1 1/4" i.d. x 1 1/2" o.d. x 1 3/16" lg	2	2	2
35	Std.	Grease fitting 1/4"-28 straight	8	8	8
36	UCFD207-20	Bearing 1 1/4" + flange & two grease fittings (straight)	3	3	3
37	190-05871	Chain #60 x 70 1/2" (94 links)	1	1	1
37	26A60	Connecting link no. 60	1	1	1
37	59-60	Offset link no. 60	1	1	1
38	110-04361	Skid shoe (left side)	1	1	1
39	120-03603	Frame P-680TRC	1	-	-
39	120-03623	Frame P-720TRC	-	1	-
39	120-04162	Frame P-720TRC-74	-	-	1
40	150-00332	Idler clevis pin	1	1	1
41	8186	Idler sprocket #60	2	2	2
42	336-44000	Nut 5/8" NC	2	2	2
43	110-16361	Idler	1	1	1
44	110-16321	Threaded rod for idler adjustment + nut 7/16" NC	1	1	1
45	110-01981	Threaded tube for idler adjustment	1	1	1
46	6538	Compression spring	1	1	1
47	300-36250	Bolt 3/8" NC x 1" lg + nylon locknut	4	4	4

SNOWBLOWERS P-680TRC P-720TRC P-720TRC-74 (cont'd)

REF.	PART #	DESCRIPTION	P-680TRC	P-720TRC	P-720TRC-74
48	300-40310	Bolt 1/2" NC x 1 1/2" lg + nylon locknut	12	12	12
49	376-44000	Flat washer 5/8"	1	1	1
50	346-45000	Nylon locknut 5/8" NC thin	1	1	1
51	300-40340	Bolt 1/2" NC x 3 1/2" lg + nylon locknut	1	1	1
52	110-21311	Chain guard cover	1	-	-
52	110-21321	Chain guard cover	-	1	-
52	110-21281	Chain guard cover	-	-	1
53	8373	Clamp fastener (welded)	1	1	1
54	110-18952	Chain guard	1	1	1
55	300-40340	Bolt 1/2" NC x 2" lg + nylon locknut	2	2	2
56	6438	Chute adjusting rod (1)	opt.	opt.	opt.
57	6439	Chute adjusting tube (1)	opt.	opt.	opt.
58	8112	Lock pin (1)	opt.	opt.	opt.
59	346-34000	Nylon locknut 5/16" NC (1)	opt.	opt.	opt.
60	140-00881	Hoses mounting plate (1)	opt.	opt.	opt.
61	110-01121	Mounting support plate (1)	opt.	opt.	opt.
62	Std.	Cotter pin 1/8" x 1" lg (1)	opt.	opt.	opt.
63	120-01501	Chute (1) (for model PSIG-5472 see page 29)	opt.	opt.	opt.
64	300-38310	Bolt 7/16" NC x 1 1/2" lg + two-way locknut	4	4	4
65	FD207	Flange for two grease fittings	3	3	3
66	UC207-20	Bearing 1 1/4"	3	3	3
67	190-05381	Sprocket #60A30 T 1 1/4"	1	1	1
68	110-18841	Auger P-680TRC	1	-	-
68	110-18871	Auger P-720TRC	-	1	-
68	110-19001	Auger P-720TRC-74	-	-	1
69	110-18991	Impeller 24" ø 4 blades	1	1	1
70	300-44340	Impeller cap screw 5/8" NC x 2" lg (ass'd with locktite 242) + lock washer	1	1	1
71	---	Key (as motor requirement)	1	1	1
72	300-38280	Bolt 7/16" NC x 1 1/4" lg + nylon locknut & flat washer	2	2	2
73	110-02001	Retaining bracket	1	1	1
74	300-34370	Bolt 5/16" NC x 2 1/2" lg + nylon locknut	2	2	2
75	6471	U-shaped UHMW ± 12" i.d.	1	1	1
76	8030	Square key 3/8" x 3/8" x 3 1/2" lg	1	1	1
77	110-04721	Sprocket (9 teeth)	1	1	1
78	300-32220	Bolt 1/4" NC x 3/4" lg + lock washer	1	1	1
79	MLH100	Hydraulic motor for rotary drum	1	1	1
80	4365	Spacer 1 1/4" o.d. x 3/4" i.d. x 1 1/2" lg	1	1	1
81	130-15521	Mounting plate for shroud	1	1	1
82	300-32016	Bolt M8 x 1.25 x 16 mm lg + lock washer	2	2	2
83	130-15511	Hinged P.T.O. shroud	1	1	1
84	Std.	Linch pin 1/4" x 1 3/4" lg	1	1	1
85	Std.	Grease fitting 1/4"-28 90 deg.	2	2	2
86	130-19432	Interior guard (welded)	1	1	1
87	130-27661	Interior guard (bolted)	1	1	1
88	300-36250	Bolt 3/8" NC x 1" lg + nylon locknut & flat washer	4	4	4
89	300-32310	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2	2	2
90	140-10571	Back plate	3	3	3

MANUAL CHUTE KIT MR-4864

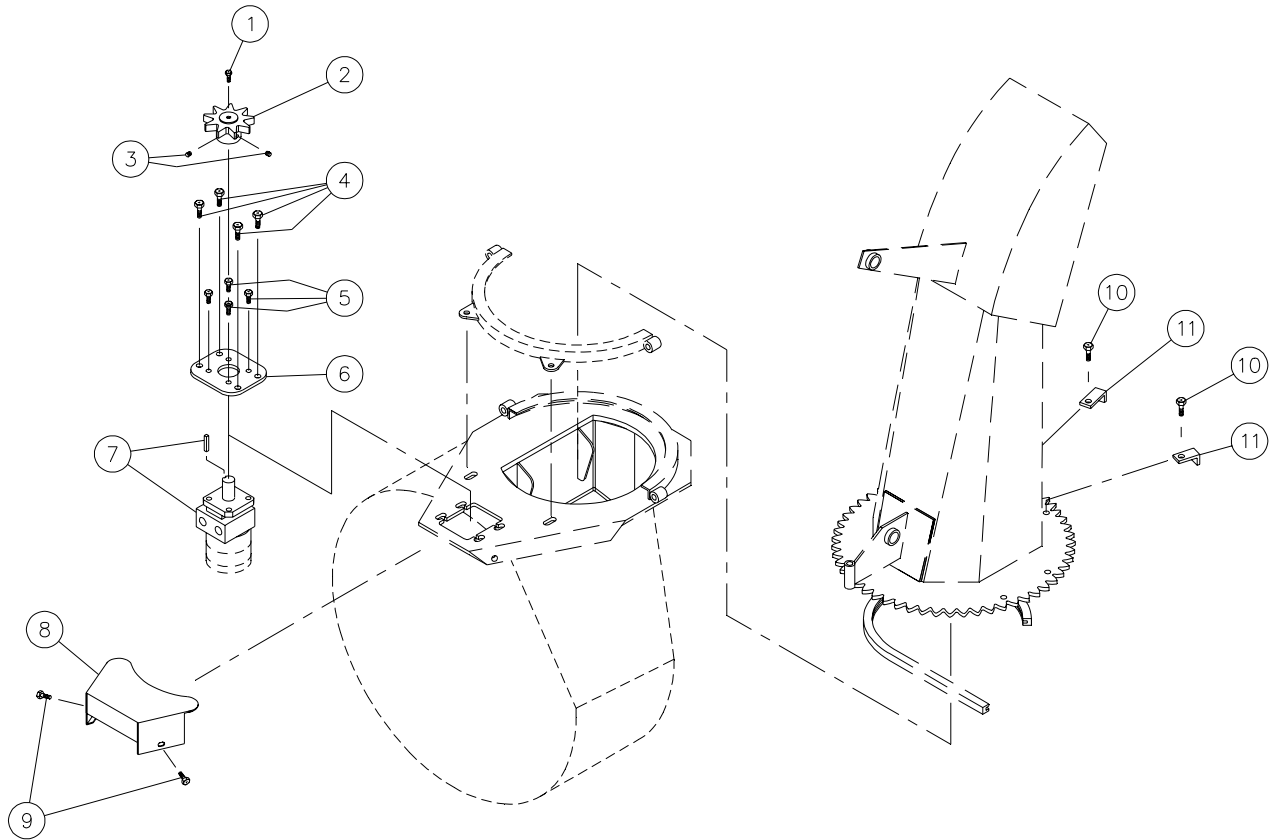
170-01293



REF.	PART #	DESCRIPTION	QTY
1	Std.	Roll pin 1/4" x 1 1/2"	1
2	130-09091	Crank stopper	1
3	300-38310	Bolt 7/16" NC x 1 1/2" lg + nylon locknut & flat washer	2
4	110-08061	Crank	1
5	110-08071	Crank support	1
6	300-38280	Bolt 7/16" x 1 1/4" lg + nylon locknut	3
7	140-05661	Stopper	2

HYDRAULIC CHUTE KIT *Motor* SP-4864

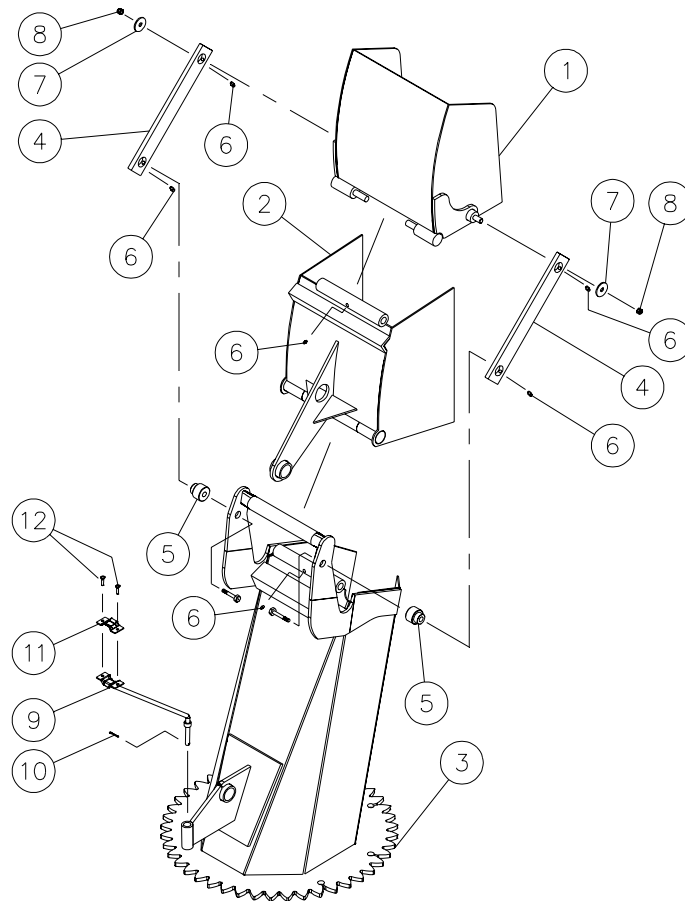
170-01303



REF.	PART #	DESCRIPTION	QTY
1	300-32220	Bolt 1/4" NC x 3/4" lg + locknut	1
2	110-04183	Sprocket (9 teeth)	1
3	323-36160	Allen set screw 3/8" NC x 3/8" lg	2
4	300-38280	Bolt 7/16" NC x 1 1/2" lg + nylon locknut & flat washer	4
5	300-36250	Bolt 3/8" NC x 1" lg + lock washer	4
6	130-07911	Motor mounting plate	1
7	MLH125	Hydraulic motor + key	opt.
7	MLH250	Hydraulic motor + key	opt.
8	130-08561	Guard	1
9	300-34250	Bolt 5/16" NC x 1" lg + nylon locknut & flat washer	2
10	300-38280	Bolt 7/16" NC x 1 1/4" lg + nylon locknut	2
11	140-05661	Stopper	2

SEMI-INDUSTRIAL CHUTE PSIG-5472

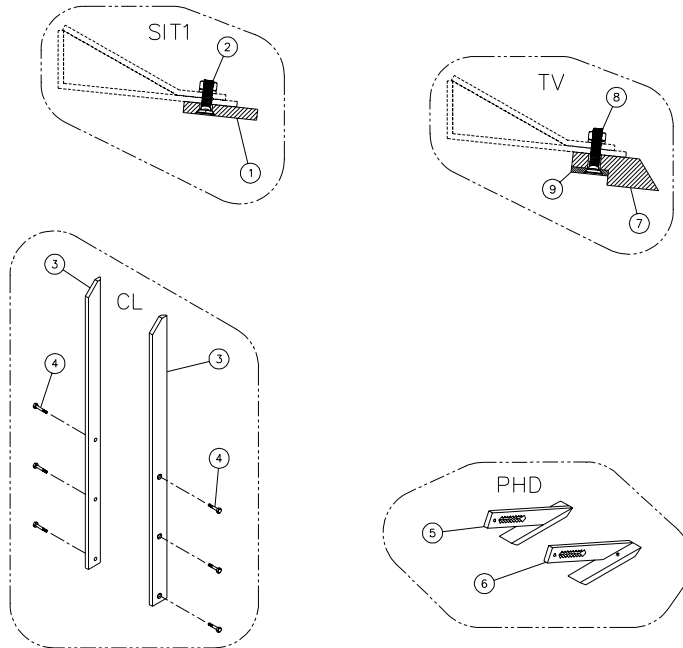
170-03511



REF.	PART #	DESCRIPTION	QTY
1	110-22861	Upper chute deflector	1
2	110-22871	Lower chute deflector	1
3	110-22881	Chute base	1
4	140-14171	Connecting rod	2
5	150-05391	Spacer for connecting rod	2
6	Std.	Grease fitting 1/4" - 28 droit	6
7	378-36500	washer	2
8	346-36000	Nylon locknut 3/8" NC	1
9	110-01122	Mounting support plate (1)	opt.
10	Std.	Cotter pin 1/8" x 1" lg	opt.
11	140-13071	Hoses mounting plate (1)	opt.
12	300-32250	Bolt 1/4" NC x 1" lg + nylon locknut (1)	opt.

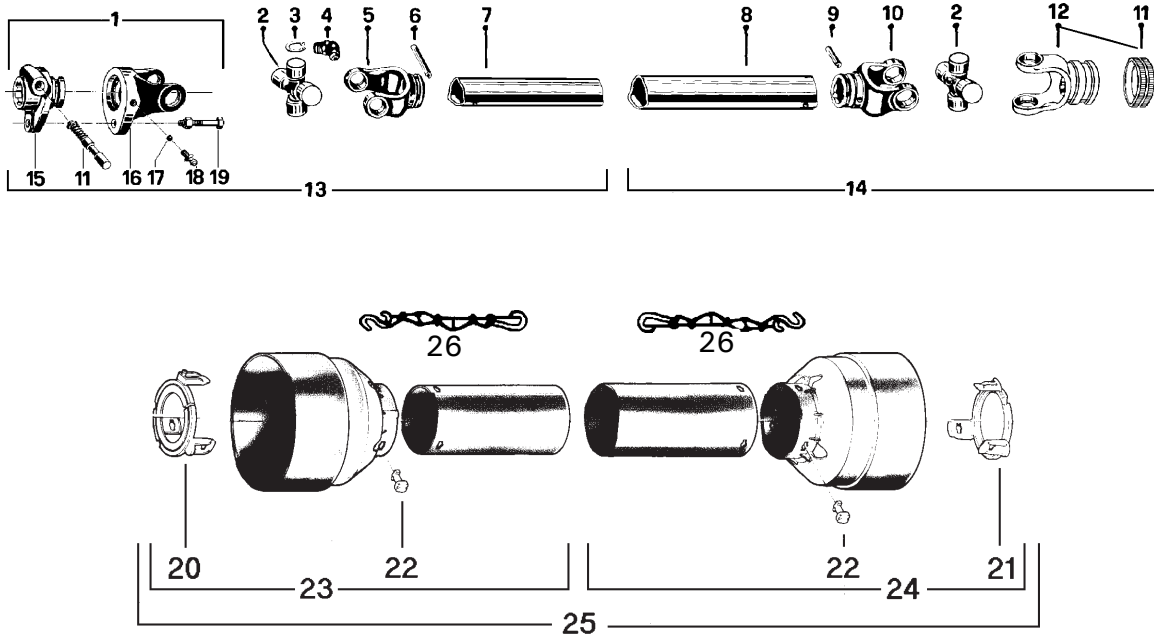
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170-02983



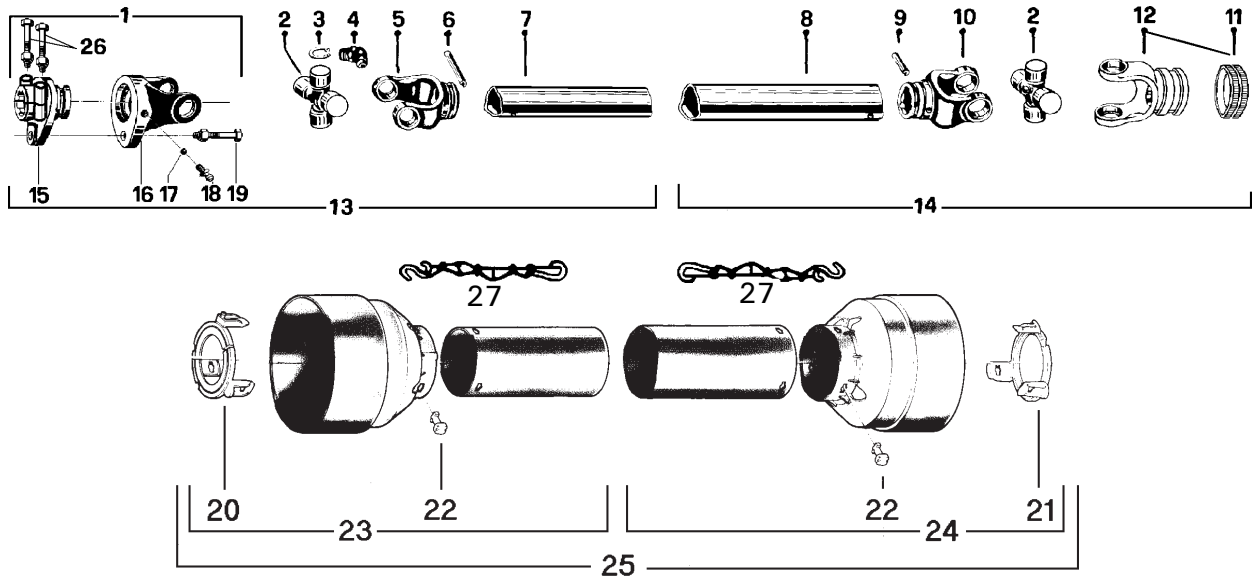
REF.	PART #	DESCRIPTION	P-540	P-620	P-680	P-680TRC	P-720	P-720TRC	P-720-74	P-720TRC-74	P-720-80	QTY
1		Semi-industrial scraper blade, carbon steel, not reversible, not sharpened										
	140-12281	1/2" x 3" x 50 1/4"	1	-	-	-	-	-	-	-	-	-
	140-12271	1/2" x 3" x 58 1/4"	-	1	-	-	-	-	-	-	-	-
	140-05801	1/2" x 3" x 64 1/4"	-	-	1	1	-	-	-	-	-	-
	140-05791	1/2" x 3" x 68 1/4"	-	-	-	-	1	1	-	-	-	-
	140-11241	1/2" x 3" x 70 1/4"	-	-	-	-	-	-	1	1	-	-
	140-14151	1/2" x 3" x 76 1/4"	-	-	-	-	-	-	-	-	-	1
2	319-38310	Plow bolt 7/16" NC x 1 1/2" lg + nut & lock washer	5	6	7	7	7	7	7	7	7	8
3	140-05941	Lateral blade	2	2	2	2	2	2	2	2	2	2
4	318-38310	Plow bolt 7/16" NC x 1 1/2" lg + nut & lock washer	6	6	6	6	6	6	6	6	6	6
5	110-07701	Carbon steel skid shoe	1	1	1	1	1	1	1	1	1	1
6	110-07711	Carbon steel skid shoe	1	1	1	1	1	1	1	1	1	1
7	190-05102	Tivar scraper blade, not reversible 1" x 3" x 50 1/4"	1	-	-	-	-	-	-	-	-	-
7	190-05112	Tivar scraper blade, not reversible 1" x 3" x 58 1/4"	-	1	-	-	-	-	-	-	-	-
7	190-05122	Tivar scraper blade, not reversible 1" x 3" x 64 1/4"	-	-	1	1	-	-	-	-	-	-
7	190-02682	Tivar scraper blade, not reversible 1" x 3" x 68 1/4"	-	-	-	-	1	1	-	-	-	-
7	190-05132	Tivar scraper blade, not reversible 1" x 3" x 70 1/4"	-	-	-	-	-	-	1	1	-	-
7	190-06261	Tivar scraper blade, not reversible 1" x 3" x 76 1/4"	-	-	-	-	-	-	-	-	-	1
8	319-38310	Plow bolt 7/16" x 1 1/2" lg..... + nut & lock washer	5	6	7	7	7	7	7	7	7	8
9	140-13331	Tivar blade holder 1" x 3" x 50 1/4"	1	-	-	-	-	-	-	-	-	-
9	140-13341	Tivar blade holder 1" x 3" x 58 1/4"	-	1	-	-	-	-	-	-	-	-
9	140-13351	Tivar blade holder 1" x 3" x 64 1/4"	-	-	1	1	-	-	-	-	-	-
9	140-13361	Tivar blade holder 1" x 3" x 68 1/4"	-	-	-	-	1	1	-	-	-	-
9	140-13371	Tivar blade holder 1" x 3" x 70 1/4"	-	-	-	-	-	-	1	1	-	-
9	140-14161	Tivar blade holder 1" x 3" x 76 1/4"	-	-	-	-	-	-	-	-	-	1

P.T.O. SHAFT # 6408-E (T20)



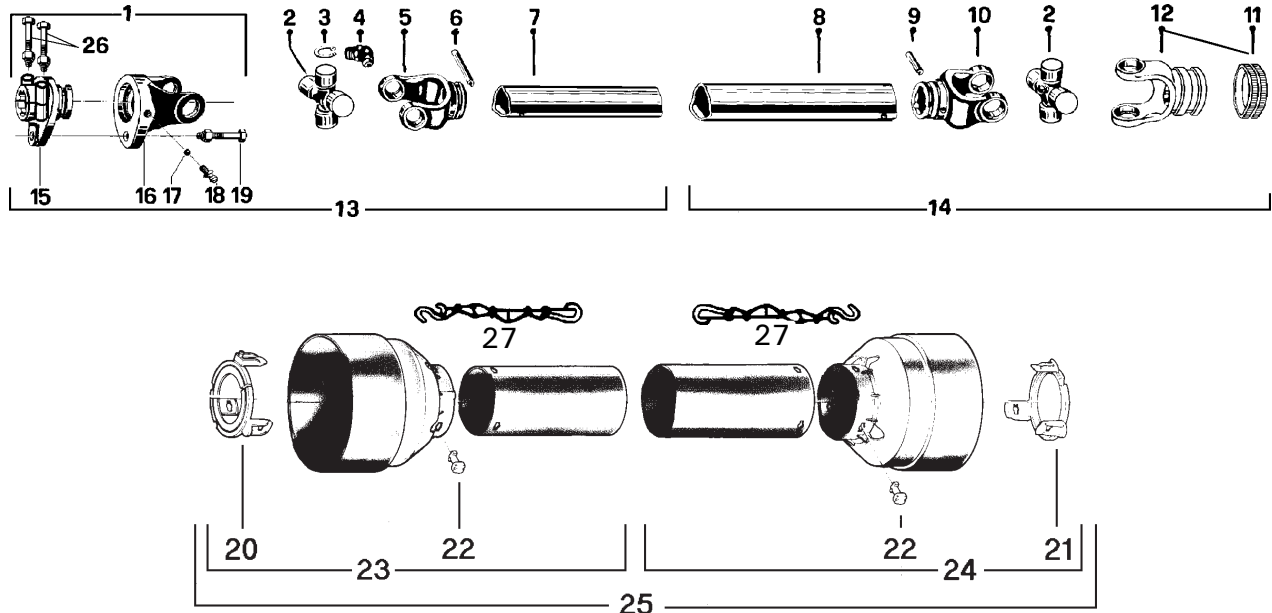
REF.	PART #	DESCRIPTION	QTY
1	6201	Quick disconnect shear yoke assembly	1
2	6208	U-joint + 4 retaining rings + 1 grease fitting	2
3	6203	Retaining ring	8
4	8110	Grease fitting	2
5	6434	Yoke for inner tube	1
6	6433	Stopper for inner tube	1
7	6432	Inner tube	1
8	6431	Outer tube	1
9	6344	Stopper for outer tube	1
10	6430	Yoke for outer tube	1
11	8363	Collar kit	2
12	6409	Yoke with hole 1 3/8"-6 splines + yoke stopper	1
13	6224	P.T.O. section, side with safety shear bolt, inner part, with protector	1
14	6225	P.T.O. section, side without safety shear bolt, outer part, with protector	1
15	6202	Adaptor	1
16	6204	Yoke and shearplate	1
17	6205	Ball	17
18	6206	Grease fitting	1
19	6207	Safety shear bolt M6 x 40mm	1
20	6219-E	Bearing ring for inner guard tube	1
21	6218-E	Bearing ring for outer guard tube	1
22	8109	Stopper	6
23	6221	Inner shield	1
24	6220	Outer shield	1
25	6222	Complete shield	1
26	8308	Safety chain	2

P.T.O. SHAFT # 6248-EG (T40)



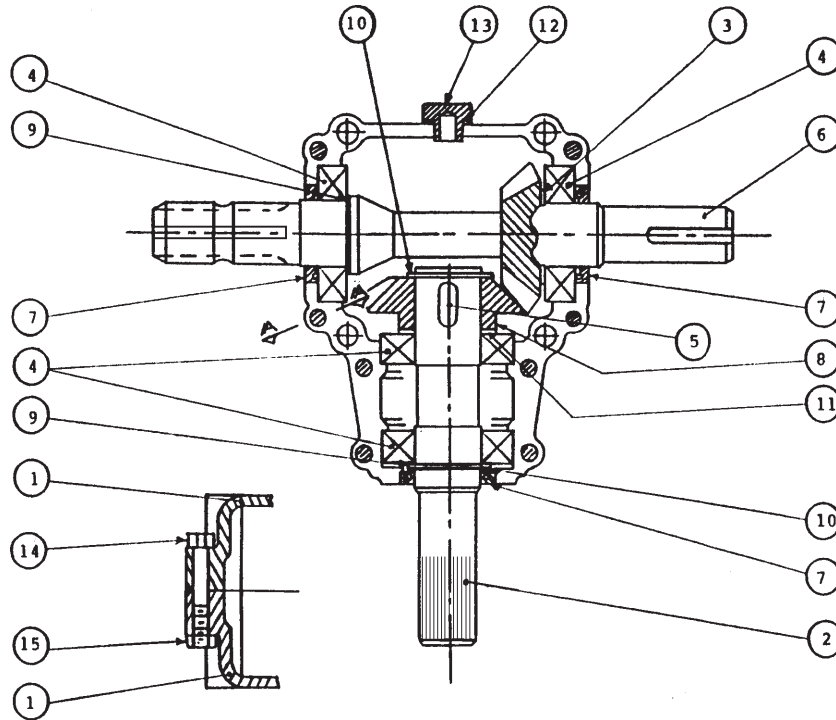
REF.	PART #	DESCRIPTION	QTY
1	6232-2	Safety shear yoke (2 bolts)	1
2	6239	U-joint + 4 retaining rings + 1 grease fitting	2
3	6234	Retaining ring	8
4	8110	Grease fitting	2
5	6353	Yoke for inner tube	1
6	6344	Stopper for inner tube	1
7	6343	Inner tube	1
8	6342	Outer tube	1
9	6341	Stopper for outer tube	1
10	6340	Yoke for outer tube	1
11	8363	Collar kit	1
12	6354	Yoke with hole 1 3/8"-6 splines + yoke stopper	1
13	6236	P.T.O. section, side with safety shear bolt, inner part, with protector	1
14	6237	P.T.O. section, side without safety shear bolt, outer part, with protector	1
15	6233-2	Adaptor (2 bolts)	1
16	6235	Yoke and shearplate	1
17	8070	Ball	17
18	8071	Grease fitting	1
19	6238	Safety shear bolt M8 x 50mm	1
20	6349-E	Bearing ring for inner guard tube	1
21	6348-E	Bearing ring for outer guard tube	1
22	8109	Stopper	6
23	6351	Inner shield	1
24	6350	Outer shield	1
25	6352	Complete shield	1
26	8222	Bolt M12 x 70mm	2
27	8308	Safety chain	2

P.T.O. SHAFT # 8114-EG (T50)



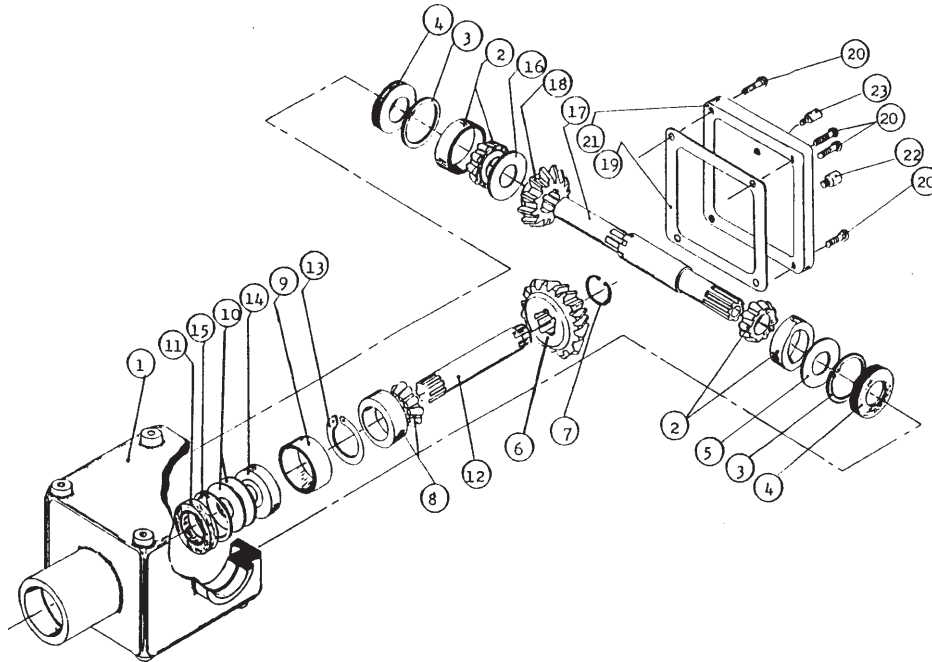
REF.	PART #	DESCRIPTION	QTY
1	8221	Safety shear yoke (2 bolts)	1
2	8073	U joint + 4 retaining rings + 1 grease fitting	2
3	8061	Retaining ring	8
4	8110	Grease fitting	2
5	8079	Yoke for inner tube	1
6	6341	Stopper for inner tube	1
7	8077	Inner tube	1
8	8076	Outer tube	1
9	8142	Stopper for outer tube	1
10	8074	Yoke for outer tube	1
11	8363	Collar kit	1
12	8113	Yoke with hole 1 3/8"-6 splines + yoke stopper	1
13	8235	P.T.O. section, side with safety shear bolt, inner part, with protector	1
14	8236	P.T.O. section, side without safety shear bolt, outer part, with protector	1
15	8223	Adaptor (2 bolts)	1
16	8069	Yoke and shearplate	1
17	8070	Ball	17
18	8071	Grease fitting	1
19	8072	Safety shear bolt M10 x 50mm	1
20	8084-E	Bearing ring for inner guard tube	1
21	8083-E	Bearing ring for outer guard tube	1
22	8109	Stopper	6
23	8086	Inner shield	1
24	8085	Outer shield	1
25	8087	Complete shield	1
26	8222	Bolt M12 x 70mm	2
27	8308	Safety chain	2

GEAR BOX # 6451 (T281)



REF.	PART #	DESCRIPTION	QTY
1	6414	Casing	2
2	6429	Side shaft (1 ¼" - 19 splines)	1
3	6416	Spacer 35,3 x 48	1
4	6207-2RS	Ball bearing	4
5	6418	Key 10 x 8 x 30	1
6	6419	Impeller shaft (1 ¼" & 1 3/8" - 6 splines)	1
7	6420	Seal 35 x 52 x 7	3
8	6421	Gear Z19	1
9	6422	Spacer 35.3 x 0.5	2
10	6423	Snap ring 35 UNI7435	2
11	6424	Spacer 35.3 x 0.6	1
12	6425	Oil seal	1
13	6426	Oil plug	1
14	6427	Bolt M8 x 55	8
15	6428	Nut M8	8

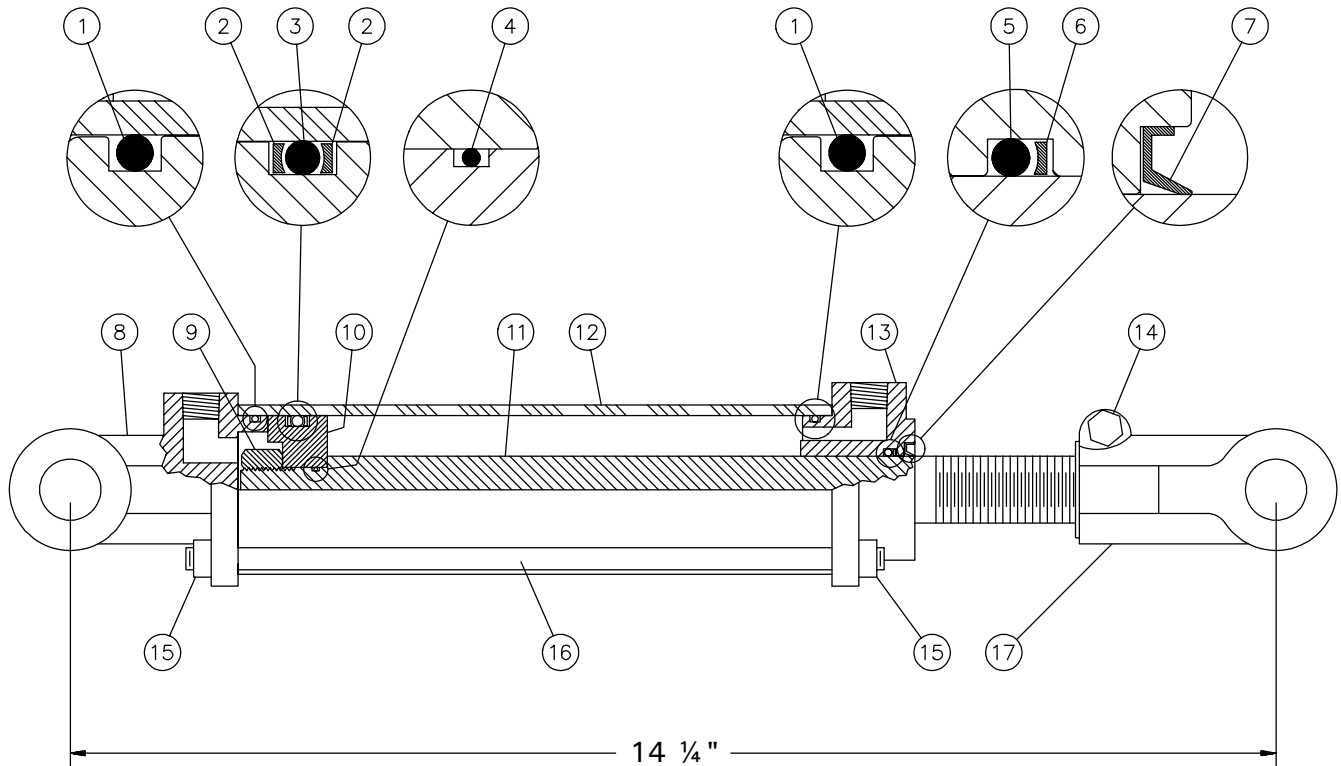
GEAR BOX # 8251 (T27D)



REF.	PART #	DESCRIPTION	QTY
1	8043	Casing	1
2	30208-A	Roller bearing	2
3	8045	Inside circlip 80mm	2
4	8046	Oil seal 40 x 80 x 12mm	2
5	8047	Adjusting washer	1
6	8048	Gear Z18	1
7	8049	Outside circlip 40mm	1
8	30207-A	Roller bearing no. 30207	1
9	8051	Spacer ring	1
10	8052	Adjusting washer	2
11	8053	Oil seal 35 x 72 x 12mm	1
12	8054	Side shaft (1 1/4" - 19 splines)	1
13	8055	Outside circlip 72mm	1
14	6207-2RS	Ball bearing no. 6207	1
15	8057	Inside circlip 35mm	1
16	8058	Adjusting washer	1
17	8252	Impeller shaft (1.575" & 1 3/8" - 6 splines)	1
18	8060	Gear Z18	1
19	8061	Gasket	1
20	8062	Bolt M10 x 14mm	4
21	8063	Cover	1
22	8064	Oil plug	1
23	8065	Oil filler plug	1

CYLINDER 25TR04

170-02141



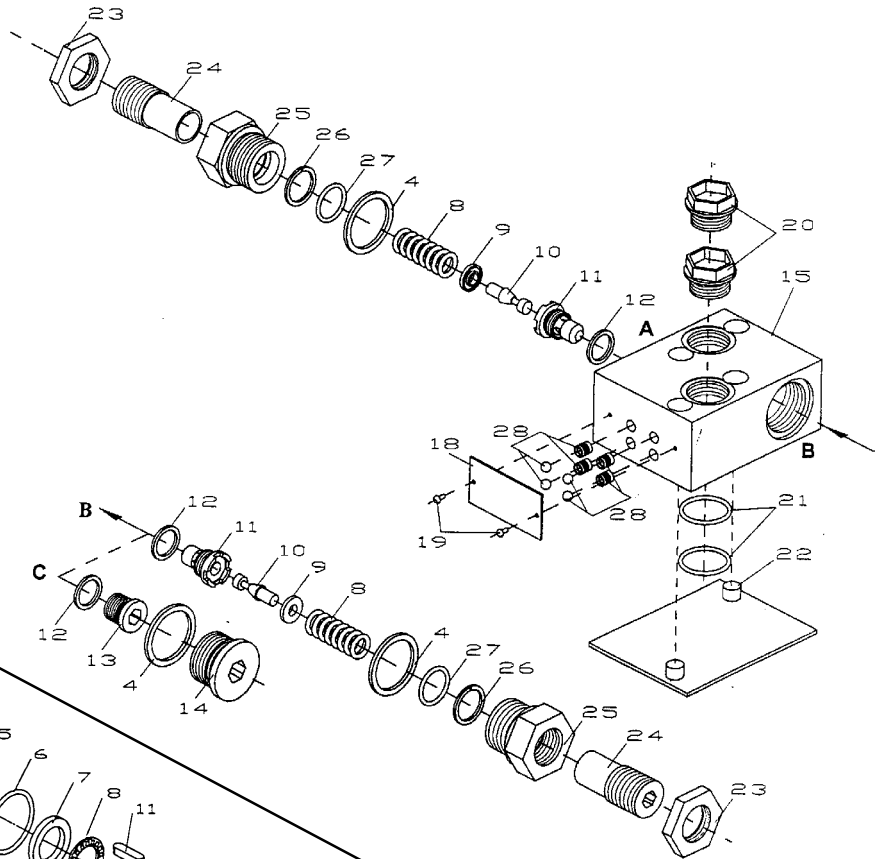
REF.	PART #	DESCRIPTION	QTY
1	See #RK25TR	O-ring 1/8" x 2 1/4" x 2 1/2"	2
2	See #RK25TR	Back-up 2 1/2" o.d. x 3/16 ø	2
3	See #RK25TR	O-ring 3/16" x 2 1/8" x 2 1/2"	1
4	See #RK25TR	O-ring 1/16" x 5/8" x 3/4"	1
5	See #RK25TR	O-ring 1/8" x 1 1/8" x 1 3/8"	1
6	See #RK25TR	Back-up 1 3/8" o.d. x 1/8" ø	1
7	See #RK25TR	Wiper 1 1/8" i.d. x 1 5/8" o.d.	1
8	492401	Yoke (for 2 1/2" tube)	1
9	338-46000	Nut 3/4" NF	1
10	4924-31	Piston 2 1/2" ø	1
11	491980-04	Piston rod 1 1/8"	1
12	491668-04	Cylinder body 2 1/2" ø	1
13	492421	Head (for 2 1/2" tube)	1
14	300-36355	Bolt 3/8" NC x 2 1/4" + nut	1
15	336-36000	Nut 3/8" NC	8
16	Std.	Threaded rod 3/8" NC x 8" lg	4
17	458599	Yoke (for 1 1/8" rod)	1
NI*	8183	Pin 1" ø + cotter pin	2
NI*	RK25TR	Repair kit for cylinder 2 1/2" (includes # 1, 2, 3, 4, 5, 6, & 7)	1

*NI = NOT ILLUSTRATED

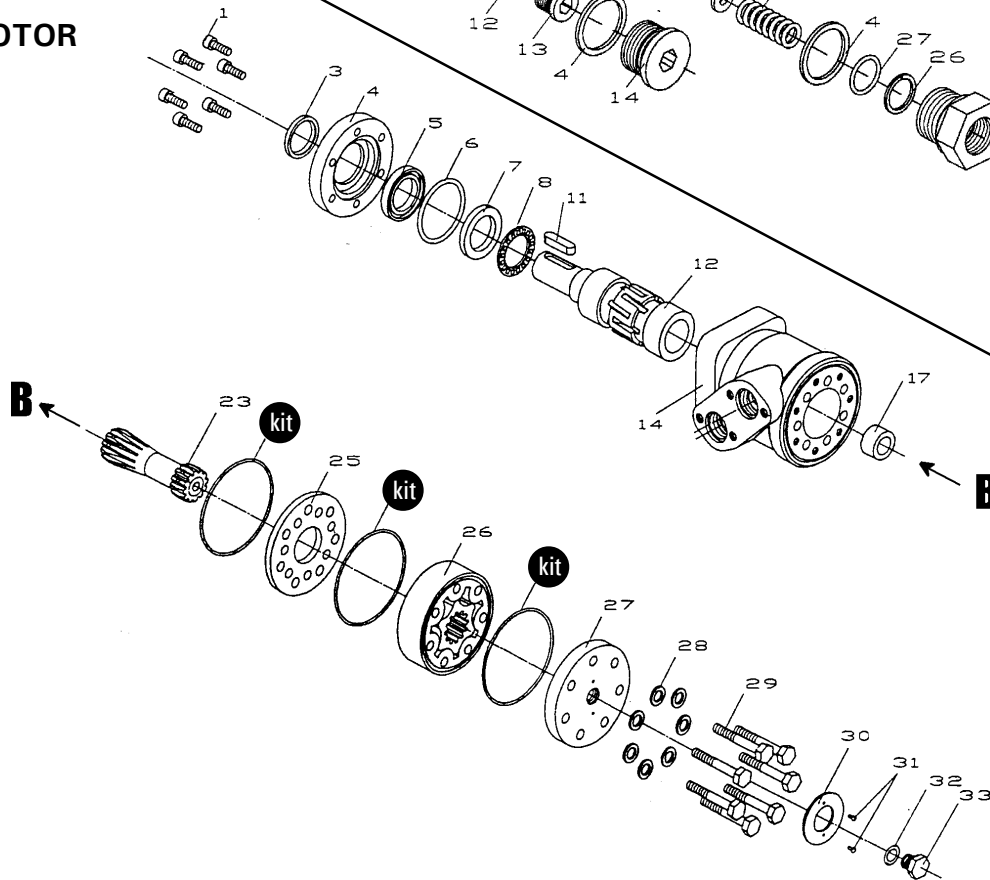
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HYDRAULIC MOTOR MLH100, MLH125 & MLH250

CUSHION VALVE



MOTOR










REF.	PART #	DESCRIPTION	QTY
kit	8368	Set of seals.....	1
11	8369	Key for "Orbit" motor.....	1






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TORQUE CHART

TORQUE SPECIFICATION TABLE

Thread UNC and UNF		Grade 2 				Grade 5   				Grade 8*   			
Bolt size		Torque				Torque				Torque			
Inches	mm	Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.
1/4	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42	47.5	57.0	45	54	61.0	73.2
7/16	11.11	30	35	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2	12.70	45	52	61.0	70.5	80	96	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358.0
3/4	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	160	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5
1 1/8	25.58	-	-	-	-	800	880	1084.8	1193.3	1280	1440	1735.7	1952.6
1 1/4	31.75	-	-	-	-	1120	1240	1518.7	1681.4	1820	2000	2467.9	2712.0
1 3/8	34.93	-	-	-	-	1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1 1/2	38.10	-	-	-	-	1940	2200	2630.6	2983.2	3160	3560	4285.0	4827.4

* Thick nuts must be used with grade 8 bolts.

Size of screw	Thread	Pitch (mm)	Grade 4T  				Grade 7T 				Grade 8T  			
			Torque				Torque				Torque			
			Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.
M6	UNC	1.00	3.6	5.8	4.9	7.9	5.8	9.4	7.9	12.7	7.2	10	9.8	13.6
M8	UNC	1.25	7.2	14	9.8	19	17	22	23	29.8	20	26	27.1	35.2
M10	UNC	1.5	20	25	27.1	33.9	34	40	46.1	54.2	38	46	51.5	62.3
M12	UNC	1.75	28	34	37.9	46.1	51	59	69.1	79.9	57	66	77.2	89.4
M14	UNC	2.0	49	56	66.4	75.9	81	93	109.8	126	96	109	130.1	147.7
M16	UNC	2.0	67	77	90.8	104.3	116	130	157.2	176.2	129	145	174.8	196.5
M18	UNC	2.0	88	100	119.2	136	150	168	203.3	227.6	175	194	237.1	262.9
M20	UNC	2.5	108	130	146.3	176.2	186	205	252	277.8	213	249	288.6	337.4
M8	UNF	1.0	12	17	16.3	23	19	27	25.7	36.6	22	31	29.8	42
M10	UNF	1.25	20	29	27.1	39.3	35	47	47.4	63.7	40	52	54.2	70.5
M12	UNF	1.25	31	41	42	55.6	56	68	75.9	92.1	62	75	84	101.6
M14	UNF	1.5	52	64	70.5	86.7	90	106	122	143.6	107	124	145	168
M16	UNF	1.5	69	83	93.5	112.5	120	138	162.6	187	140	158	189.7	214.1
M18	UNF	1.5	100	117	136	158.5	177	199	239.8	269.6	202	231	273.7	313
M20	UNF	1.5	132	150	178.9	203.3	206	242	279.1	327.9	246	289	333.3	391.6

Use the above torques when special torque is not given.

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if extreme pressure lubricants are used.

WARRANTY

PRONOVOST warrants this product to the initial purchaser for the period of one year from the date of purchase against defects in materials and workmanship.

We will replace or repair defective parts free of charge if they are returned to our plant in St-Tite, Quebec, Canada.

Transportation charges are the responsibility of the customer. This warranty is not transferable.

Hydraulic cylinders and motors are covered by the manufacturer of these items.

All PRONOVOST spare parts purchased are covered by a three (3) month warranty.

This warranty becomes void and nul if the equipment is modified, breaks down as the result of an accident, is not operated according to manufacturer's recommendations, damaged by negligence or if maintenance has not been carried out as specified.

Our obligation is limited to the replacement or repair of the defective part. PRONOVOST accepts no responsibility for direct or indirect consequential damages of any kind.

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INNOVATION - EXCELLENCE

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