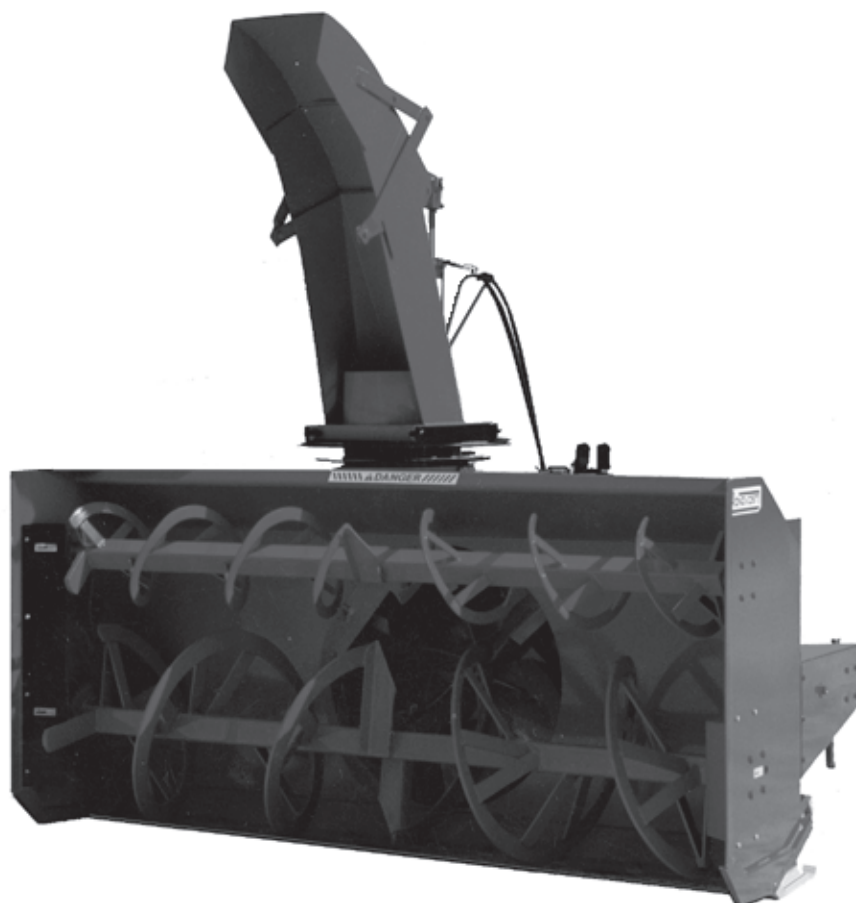




**OPERATOR'S / PARTS
MANUAL**



Snowblowers
Models

P-992 & P-992TRC
P-980 & P-980TRC
P-1040 & P-1040TRC



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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.

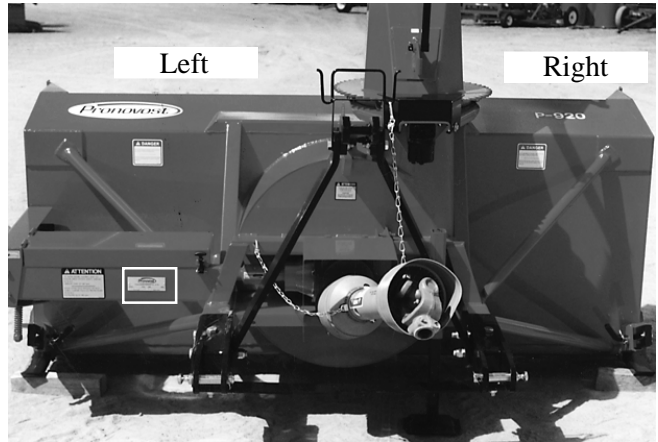


Figure 1

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 46.
- 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.

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.

2

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

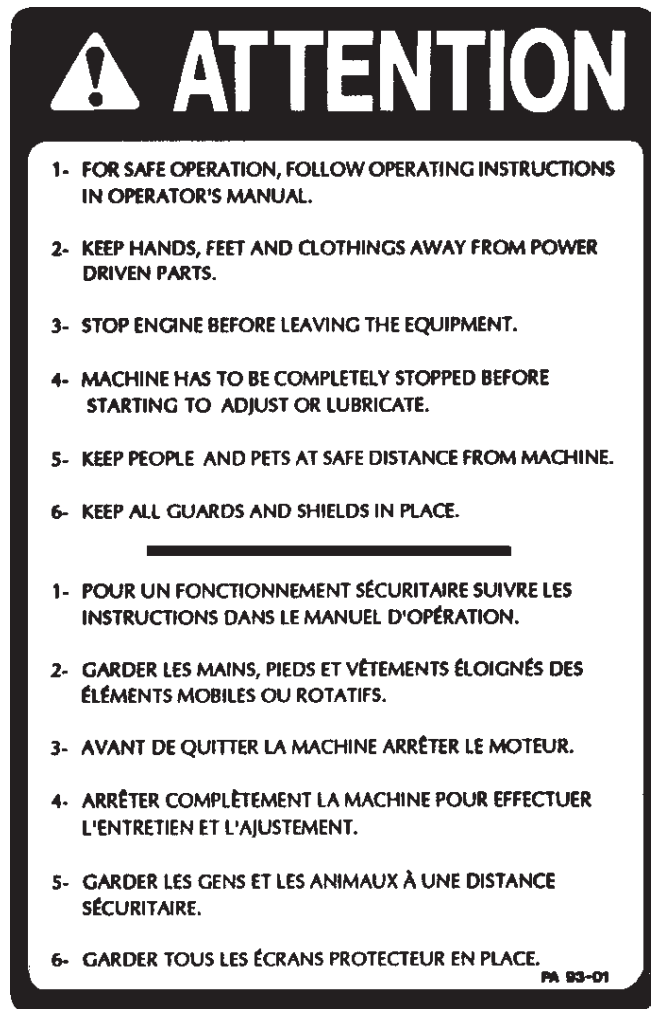


Figure 2
Decal A

Part no.: A102

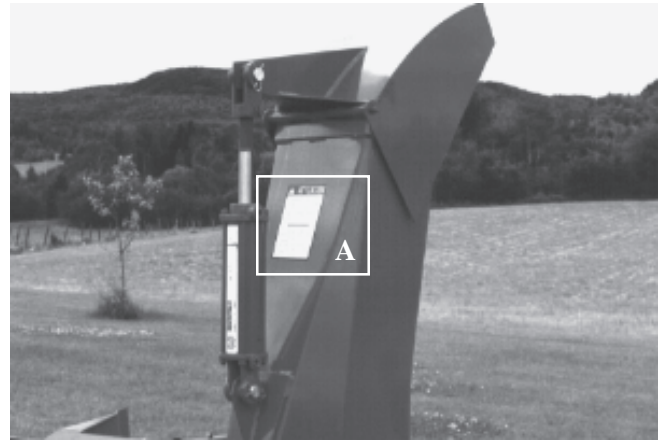


Figure 3

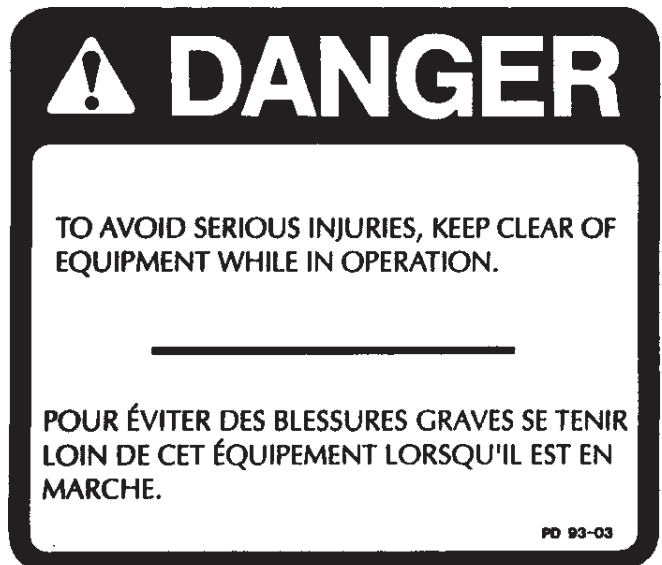


Figure 4
Decal B

Part no.: A101



Figure 5

DECALS (cont'd)

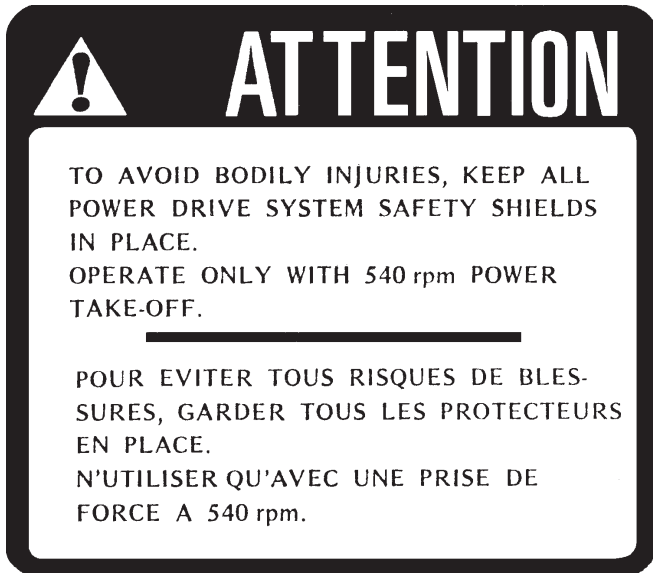


Figure 6
Decal C

Part no.: A107



Figure 7
Decal D

Part no.: A103

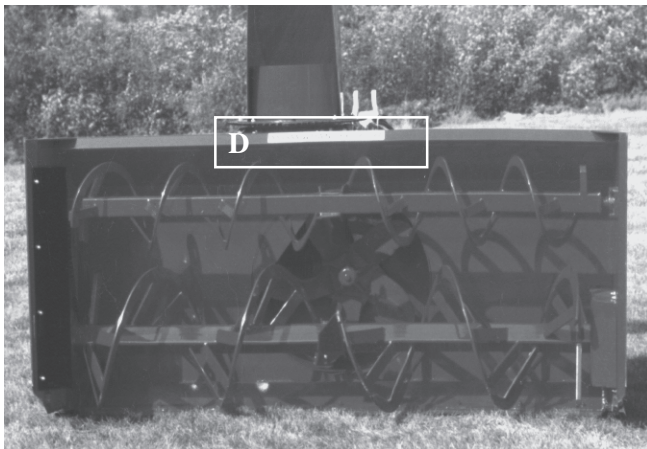


Figure 8

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

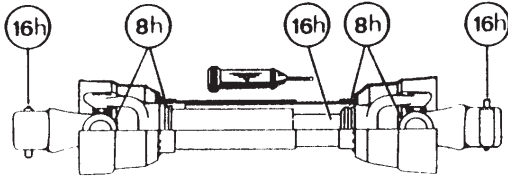


Figure 10
Decal F

Part no.: A 109

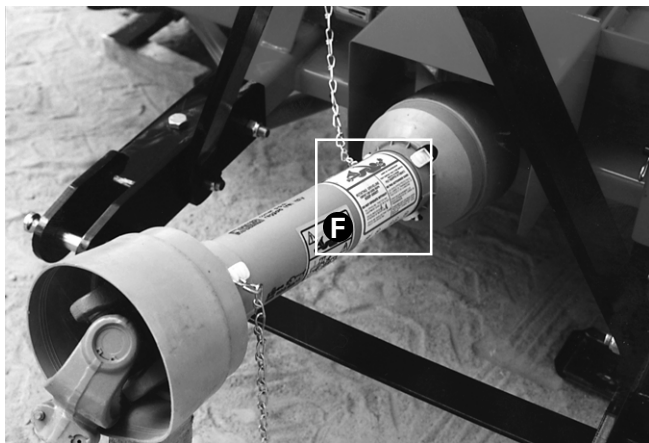


Figure 11

MAINTENANCE DECALS

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

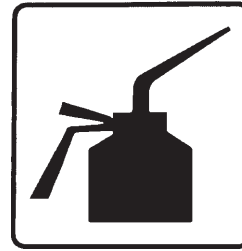


Figure 12

Part no.: A 105



Figure 13

Part no.: A 106



Figure 14
Decal G

Part no.: A104

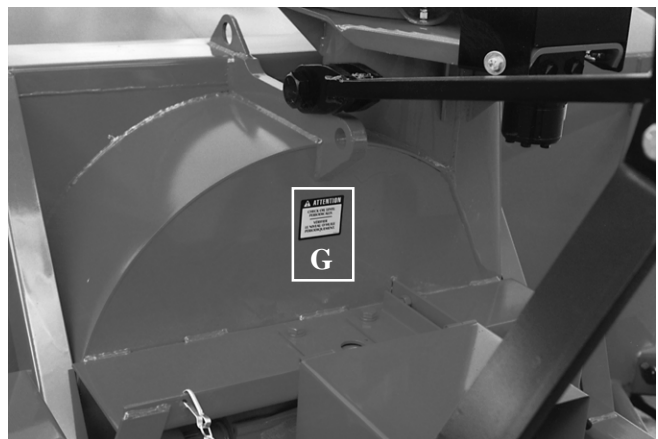


Figure 15

ASSEMBLY



Figure 16

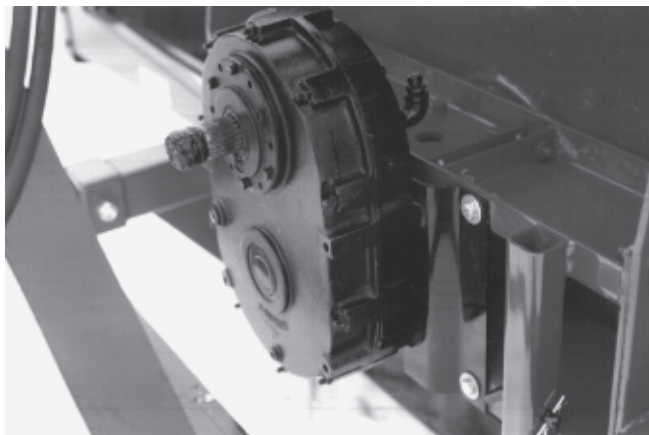


Figure 17



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) If your snowblower is equipped with the optional 1000 to 540 RPM reducer, install it on the gear box with the plate included (Fig. 17). With the 1000/540 rpm reducer, you must use the P.T.O. shaft # 9569 and a shear bolt M10 x 60 mm.
- 4) Install P.T.O. shaft # 9225-EG onto the gear box (or the P.T.O. shaft # 9569 onto the RPM reducer) and place the shear pin end on the Snowblower side. 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.
- 5) If equipped with a rotating drum, install a hydraulic motor. Refer to page 12 for installation instructions.
- 6) For the installation of the chute rotation mechanism, please refer to page 13.

4

ASSEMBLY (cont'd)

4

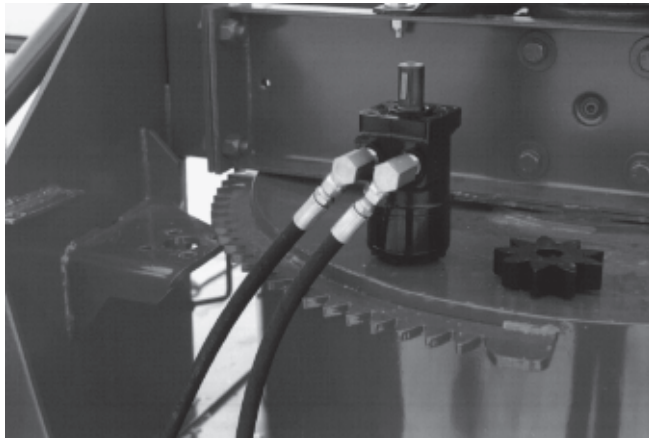


Figure 19

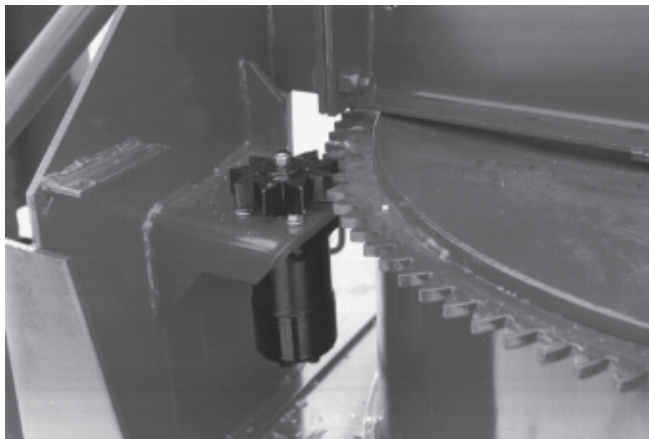


Figure 20



Figure 21

MOTOR ON THE ROTARY DRUM

- 1) Tip the Snowblower forward (gear box facing up) and remove the guard (Fig. 22) protecting the ring gear segment. Remove the elbows.
- 2) Install elbows on the hydraulic motor using teflon tape for a leak proof connection. Orient the elbows as shown (Fig. 19).
- 3) Install hoses to the elbows, again using teflon tape.
- 4) Bolt hydraulic motor on mounting plate provided, install 9 tooth gear (Fig. 20).
- 5) It is important that the cushion valve furnished be installed. Cushion valve has been pre set in plant at 1300 psi. (Fig. 21).
- 6) Install guard (Fig. 22).

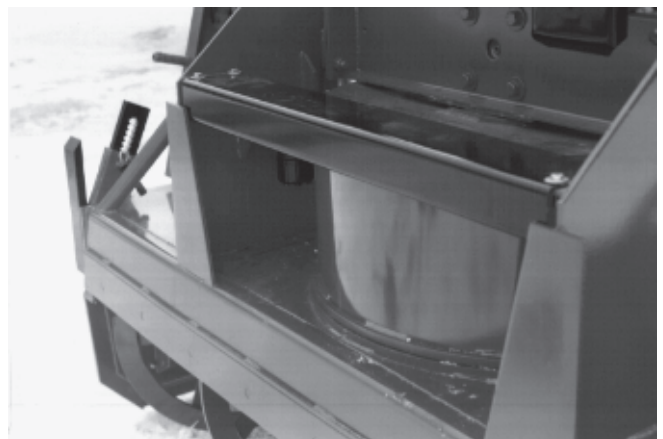


Figure 22

ASSEMBLY (cont'd)

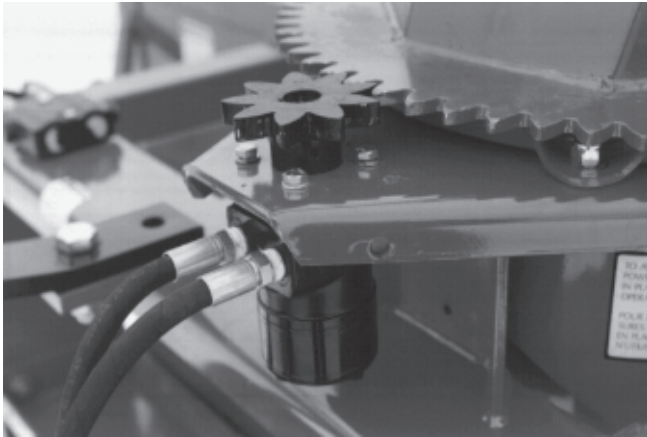


Figure 23

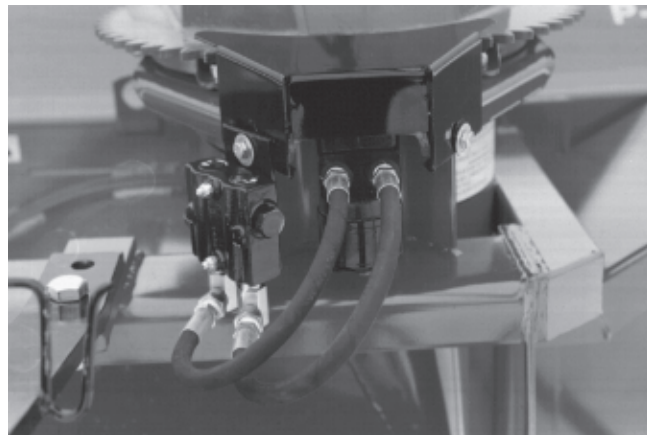


Figure 24



Figure 25

HYDRAULIC CHUTE ROTATION Motor

- 1) Install U-shaped UHMW piece, place chute on Snowblower and secure with retaining bracket and bolts provided.
- 2) Install motor and 9 tooth gear (Fig. 23).
- 3) The thickness of the 9 tooth gear is slightly more than the ring-gear. Make sure it exceeds on both sides of the ring gear.
- 4) Install guard and cushion valve support. Then install cushion valve and hydraulic hoses as per Fig. 24.
- 5) It is important that the cushion valve furnished with your chute rotation kit be installed. Cushion valve has been pre set in plant at 1300 psi.
- 6) If you install a hydraulic cylinder on the chute deflector, use model 25TR08 cylinder.
- 7) Use the optional hose support plate no. TSB-74104 (Fig. 25).

4

STARTING-UP

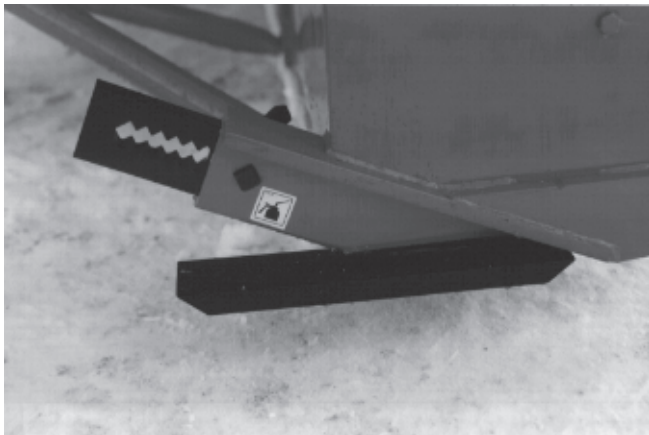


Figure 26

5

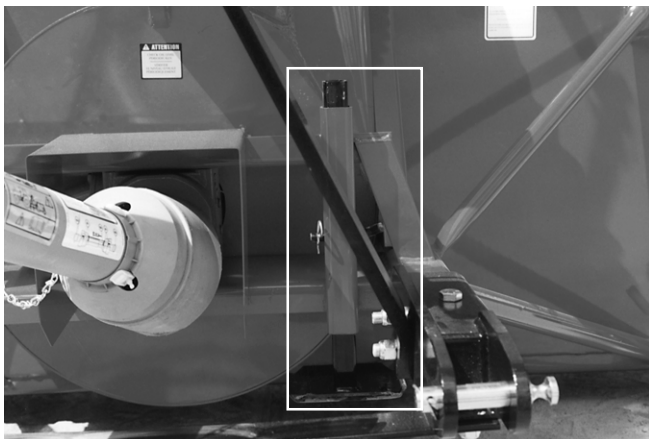


Figure 27



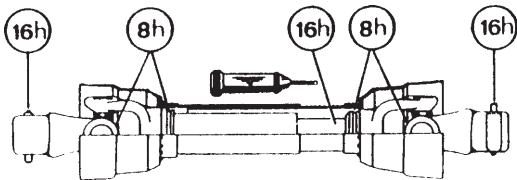
Figure 28

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 2 3/4" and 3 1/2".
- 4) Verify for adequate tightness of all fastening devices. Refer to torque chart on page 46.
- 5) Adjust skid shoes according to ground conditions (Fig. 26).
- 6) Following the installation of the Snowblower on the tractor, **do not forget** to lift the storage support (Fig. 27).
- 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. 28).

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 10 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 25 hours of operation and adjust if necessary.
- 8) Check for tightness of bearing collars every 50 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 46.
- 11) Standard scraper blades are reversible. Reverse when one edge is worn out.
- 12) 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
<ul style="list-style-type: none"> - Premature wear of U-joints and/ or bluish color of cross journals. 	<ul style="list-style-type: none"> - Insufficient lubrication. - Excessive working angle. 	<ul style="list-style-type: none"> - 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.
<ul style="list-style-type: none"> - Gripping or premature wear of telescoping members. 	<ul style="list-style-type: none"> - Too much sliding under load. - Tube overlap too-short: minimum recommended is 6". - Insufficient lubrication. - Contaminants (sand, etc.). 	<ul style="list-style-type: none"> - 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.
<ul style="list-style-type: none"> - Damaged or jammed locking pin or bolt. 	<ul style="list-style-type: none"> - Pin or orifice contaminated by sand, ice, etc. - Telescoping members too long, exerting pressure on locking device. 	<ul style="list-style-type: none"> - Clean and grease. - Readjust 3-point hitch in order to position the Snowblower further away from tractor or shorten tubes.
<ul style="list-style-type: none"> - Premature wear of guard tube bearing ring. 	<ul style="list-style-type: none"> - Lack of lubrication. - Wrong installation of guard chain. - Part of the guard in contact with the equipment. 	<ul style="list-style-type: none"> - Follow lubrication instructions. - Adjust chain to prevent interference between guard & equipment. - Replace worn or damaged bearing rings.
<ul style="list-style-type: none"> - Cut or deformed safety guard tubes. 	<ul style="list-style-type: none"> - Tubes in contact with the equipment. 	<ul style="list-style-type: none"> - 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.	- Ice accumulation. - Wrong hydraulic connections.	- Remove ice. - Check hydraulic connections.
- The chute will not turn.	- Ice accumulation. - Wrong hydraulic connections.	- Remove ice. - Check hydraulic connections.

8

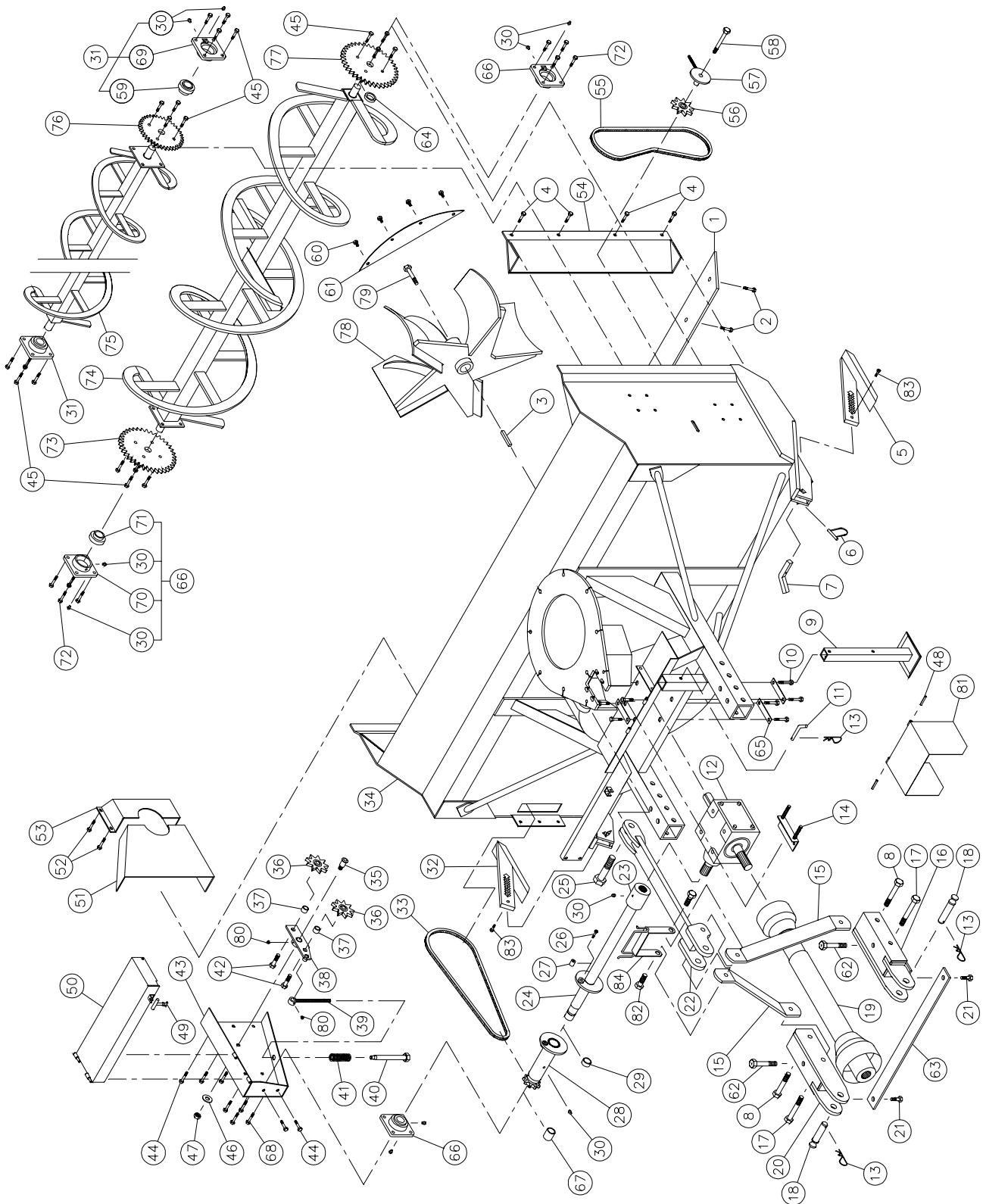
SPECIFICATIONS

Snowblower model		P-992	P-992 TRC	P-980	P-980 TRC	P-1040	P-1040 TRC
Horse power recommended (HP) min - max		75-125	75-125	100-150	100-150	100-150	100-150
Working width	(inches)	92"	92"	98"	98"	104"	104"
	(centimeters)	234	234	249	249	264	264
Cutting height	(inches)	44"	44"	48"	48"	48"	48"
	(centimeters)	112	112	122	122	122	122
Impeller diameter	(inches)	30"	30"	34"	34"	34"	34"
	(centimeters)	76	76	86	86	86	86
Depth of drum	(inches)	15"	15"	15"	15"	15"	15"
	(centimeters)	38.1	38.1	38.1	38.1	38.1	38.1
Impeller blades		5	5	6	6	6	6
Size of impeller shaft	(inches)	2"	2"	2"	2"	2"	2"
	(centimeters)	5.08	5.08	5.08	5.08	5.08	5.08
Height - Impeller center	(inches)	19½"	19½"	21½"	21½"	21½"	21½"
	(centimeters)	49.5	49.5	54.6	54.6	54.6	54.6
Impeller RPM		540	540	540	540	540	540
Number of augers		1	1	1	1	1	1
Main auger diameter	(inches)	23"	23"	26"	26"	26"	26"
	(centimeters)	58	58	66	66	66	66
Upper auger 13" (33 cm) diameter		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Drivechain - Main auger		80	80	100	100	100	100
Oil bath sealed gear box		Std.	Std.	Std.	Std.	Std.	Std.
Choice of chute rotation mechanism	Manual	-	-	-	-	-	-
	Hyd. cylinder	-	-	-	-	-	-
	Hyd. motor	Std.	Std.	Std.	Std.	Std.	Std.
Number of shear bolts		2	2	2	2	2	2
Hitch category		2	2	2	2	2	2
Balanced impeller		Std.	Std.	Std.	Std.	Std.	Std.
Balanced auger		Std.	Std.	Std.	Std.	Std.	Std.
Drum rotation mechanism	Hyd. cylinder	-	-	-	-	-	-
	Hyd. motor	-	Std.	-	Std.	-	Std.
1000 to 540 RPM reducer		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Scraper blades	Std. steel - not rev.	-	-	-	-	-	-
	Std. steel - rever.	Std.	Std.	Std.	Std.	Std.	Std.
	Hd. steel 3/8" x 2½"	-	-	-	-	-	-
	Hd. steel 1/2" x 4"	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
	Hd. steel 1/2" x 6"	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Skid shoes	Standard steel	Std.	Std.	Std.	Std.	Std.	Std.
	CHT-360 steel	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Full flight auger (industrial)		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Semi-industrial chute		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Industrial chute		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
24" (61 cm) or 48" (122 cm) chute extension		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Hydraulic telescopic industrial chute		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Deflector manual or hydraulic		Avail.	Avail.	Avail.	Avail.	Avail.	Avail.
Bearing / ductile iron casting		Std.	Std.	Std.	Std.	Std.	Std.
Lateral blades		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
P.T.O. (standard)		No. 8	No. 8	No. 8	No. 8	No. 8	No. 8
P.T.O. (optional)		No. 9	No. 9	No.9	No. 9	No. 9	No. 9
Weight (approx.)	(lbs)	1970	2135	2038	2250	2058	2270
	(kg)	895	970	926	1023	935	1032

Specifications subject to change without notice.

SNOWBLOWER P-992

170-02561



SNOWBLOWER P-992 (cont'd)

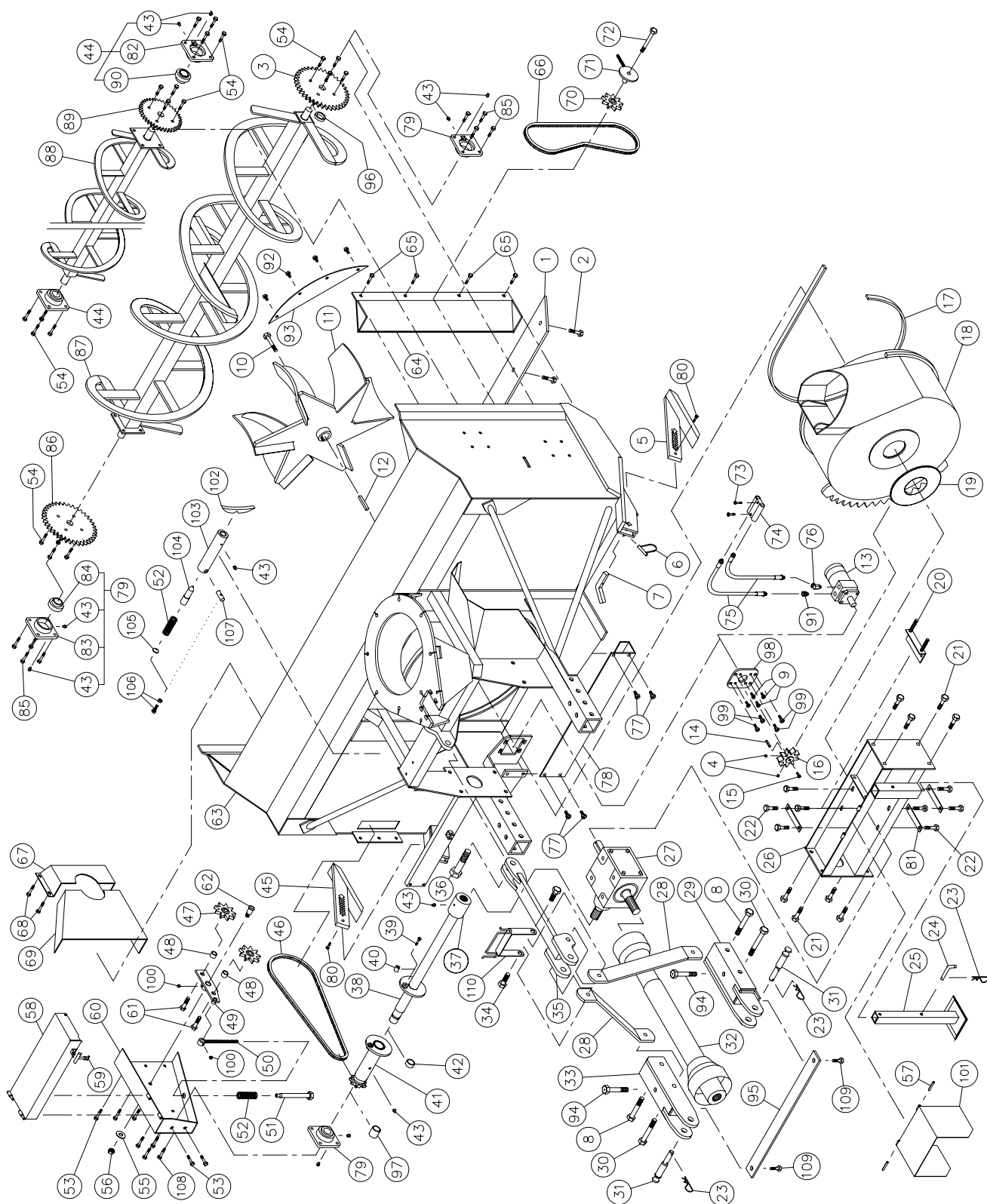
REF.	PART #	DESCRIPTION	QTY
1	140-00811	Reversible scraper blade 3/8" x 4" x 84 1/2" lg	1
2	125-0717	Plow bolt 7/16" NC x 1 3/4" lg + nut & lock washer	9
3	9285	Square key 1/2" x 1/2" x 4" lg	1
4	Std.	4 Bolts 7/16" NC x 1 1/4" lg + 4 nylon locknut	opt.
5	110-04531	Skid shoe (right side)	1
6	8112	Lock pin 1/4"	2
7	140-03361	Skid shoes lock	2
8	Std.	Bolt 3/4" NF x 6" lg + nylon locknut	2
9	9462	Storage support	1
10	Std.	Bolt 5/8" NC x 1 1/4" lg + lock washer	8
11	8220	Storage support pin	1
12	9307	Gear box T-279	1
13	Std.	Hitch pin clip 5/32"	3
14	9428	Adjustment plate for gear box + 4 nuts 1/2" NC	1
15	140-05492	3-point side bar	2
16	110-15212	Right lower hitch	1
17	Std.	Bolt 3/4" NF x 6 1/2" lg + nylon locknut	2
18	9269	Pin category 2	2
19	9225-EG	P.T.O. shaft T80	1
19	9475	P.T.O. shaft T90	opt.
20	110-15211	Left lower hitch	1
21	Std.	Bolt 5/8" NC x 2" lg + nylon locknut	2
22	110-15421	Upper hitch	1
23	6467	Splined adaptor 1 3/4" - 20 (welded)	1
24	110-15251	Auger drive shaft 34 1/8" lg overall (includes no. 23 and 27)	1
25	Std.	Bolt 1 1/4" NC x 4 1/2" lg + nylon locknut	1
26	Std.	Bolt 3/8" NC x 2 1/4" lg grade 5 + nylon locknut	1
27	150-02791	Bushing 3/8" i.d. x 1" o.d. x 3/4" lg (welded)	2
28	110-15231	Sprocket 80B10 + shearplate	1
29	160-06901	Brass bushing 1 3/4" i.d. x 2" o.d. x 1/2" lg	1
30	Std.	Grease fitting 1/4"-28 straight	12
31	8343	Bearing 1 1/4" + flange & 2 grease fitting (straight)	2
32	110-04521	Skid shoe (left side)	1
33	190-01451	Chain # 80 x 85" lg (85 links)	1
33	26A80	Connecting link no. 80	1
33	59-80	Offset link no. 80	1
34	120-02672	Frame P-992	1
35	150-00332	Idler clevis pin	1
36	9287	Idler sprocket # 80	2
37	160-06511	Spacer 3/4" i.d. x 1 1/16" o.d. x 3/4" lg	2
38	110-01052	Idler	1
39	110-01062	Threaded rod for idler adjustment + nut 7/16" NC	1
40	110-01071	Threaded tube for idler adjustment	1
41	9473	Compression spring	1
42	Std.	Bolt 3/4" NC x 2 1/2" lg + nylon locknut	2
43	110-01602	Chain guard	1
44	Std.	Bolt 7/16" NC x 1" lg + nylon locknut	5
45	Std.	Bolt 7/16" NC x 1 1/2" lg + nylon locknut	20
46	Std.	Flat washer 5/8"	1
47	Std.	Nylon locknut 5/8" NC (thin)	1
48	Std.	Roll pin 5/16" x 2" lg	2
49	8125	Rubber fastener	1
50	110-15271	Chain guard cover	1
51	130-01382	Inside guard (welded)	1
52	Std.	Bolt 3/8" NC x 1" lg + nylon locknut & flat washer	4
53	8925	Inside guard (bolted)	1
54	8135	Chain guard for upper auger	opt.
55	190-01471	Chain # 60 x 66 3/4" lg (89 links)	opt.

SNOWBLOWER P-992 (cont'd)

REF.	PART #	DESCRIPTION	QTY
55	26A60	Connecting link no. 60	opt.
55	59-60	Offset link no. 60	opt.
56	8186	Idler sprocket #60 (steel)	opt.
57	9406	Idler for upper auger (hole 1/2") + 2 nuts 1/2" NC	opt.
58	Std.	Bolt 1/2" NC x 3 1/2" lg + nylon locknut & flat washer	opt.
59	8165	Bearing 1 1/4" UC207-20	2
60	Std.	Bolt 7/16" NC x 1 1/4" lg + nylon locknut	4
61	130-02111	Deflector	1
62	Std.	Bolt 3/4" NF x 5" lg + nylon locknut	2
63	140-03432	3-point hitch reinforcement	1
64	160-03991	Spacer 1 1/2" i.d. x 2" o.d. x 7/16" lg (only for models without the upper auger)	1
65	160-10761	Back plate	3
66	9566	Bearing 1 1/2" + flange + 2 grease fitting	3
67	160-07311	Bushing 1 1/2" i.d. x 1 7/8" o.d. x 1 1/4" lg	1
68	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut (thin)	4
69	8344	Flange F-207 for 2 grease fitting	2
70	9567	Flange F208 for 2 grease fitting	3
71	9409	Bearing 1 1/2" UC208-24	3
72	Std.	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	8
73	9281	Sprocket 80A30 T 1 1/2" ø	1
74	9318	Lower auger P-992 (TRC)	1
75	9335	Upper auger P-992 (TRC)	opt.
76	8144	Sprocket 60A30 T 1 1/4" ø	opt.
77	9326	Sprocket 60A38 T 1 1/2" ø	opt.
78	110-01611	Impeller 30" ø - 5 blades	1
79	8228	Impeller cap screw 5/8" NC x 1 1/2" lg (assembled with locktite 242) + lock washer	1
80	Std.	Grease fitting 1/4"-28 90 deg.	2
81	110-12541	Hinged P.T.O. shroud	1
82	Std.	Bolt 3/4" NC x 3" lg + flat washer 1 1/2" o.d. + nylon locknut	2
83	Std.	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2
84	110-15201	Hoses support	1

SNOWBLOWER P-992TRC

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SNOWBLOWER P-992TRC (cont'd)

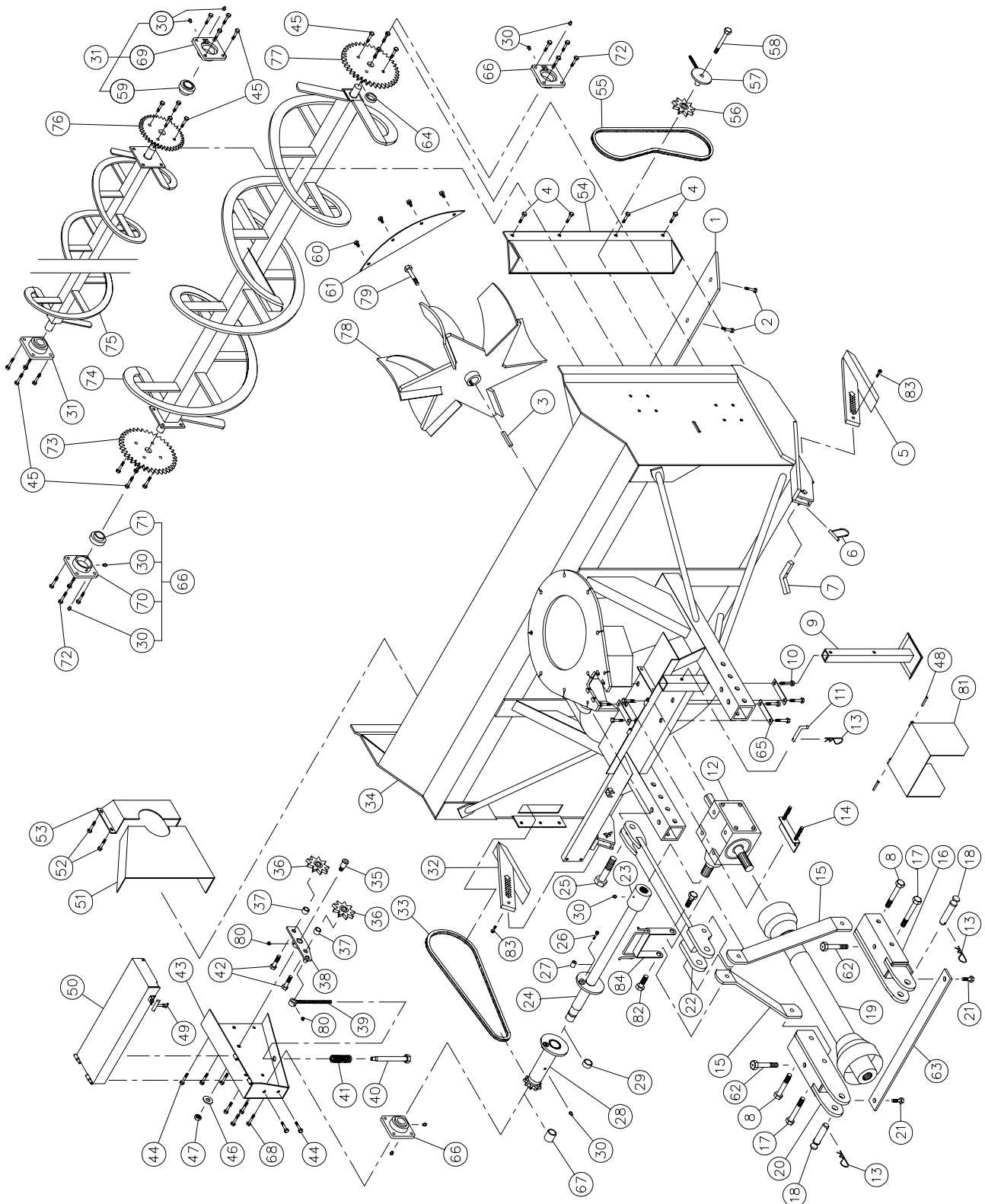
REF.	PART #	DESCRIPTION	QTY
1	140-00811	Reversible scraper blade 3/8" x 4" x 84 1/2" lg	1
2	125-0717	Plow bolt 7/16" NC x 1 3/4" lg + nut & lock washer	9
3	9326	Sprocket 60A38 T 1 1/2" ø	opt.
4	Std.	Hexagonal socket set screw 3/8" NC x 3/8" lg	2
5	110-04531	Skid shoe (right side)	1
6	8112	Lock pin 1/4"	2
7	140-03361	Skid shoes lock	2
8	Std.	Bolt 3/4" NF x 6" lg + nylon locknut	2
9	Std.	Bolt 3/8" NC x 1" lg + lock washer	4
10	8228	Impeller cap screw 5/8" NC x 1 1/2" lg (assembled with locktite 242) + lock washer	1
11	110-01611	Impeller 30" ø 5 blades	1
12	9285	Square key 1/2" x 1/2" x 4" lg	1
13	- - -	Hydraulic motor	opt.
14	- - -	Key (as motor requirement)	opt.
15	Std.	Bolt 1/4" NC x 3/4" lg + lock washer	1
16	110-04721	Sprocket (9 teeth)	1
17	9435	U-shaped UHMW 3/8" x 7/8" x 97" lg	1
18	110-12841	Rotary drum 30" ø	1
19	9432	UHMW flat washer 3/16" x 8 5/8" i.d. x 11 1/2" o.d.	1
20	9428	Adjustment plate for gear box + 4 nuts 1/2" NC	1
21	Std.	Bolt 3/4" NC x 2" lg + nylon locknut	8
22	Std.	Bolt 5/8" NC x 1 1/4" lg + lock washer	8
23	Std.	Hitch pin clip 5/32"	3
24	8220	Storage support pin	1
25	9462	Storage support	1
26	9437	Gear box support	1
27	9307	Gear box T-279	1
28	140-05472	3-point side bar	2
29	110-15212	Right lower hitch	1
30	Std.	Bolt 3/4" NF x 6 1/2" lg + nylon locknut	2
31	9269	Pin category 2	2
32	9225-EG	P.T.O. shaft T80	1
32	9475	P.T.O. shaft T90	opt.
33	110-15211	Left lower hitch	1
34	Std.	Bolt 3/4" NC x 3" lg + flat washer 1 1/2" o.d. + nylon locknut	2
35	110-15311	Upper hitch	1
36	Std.	Bolt 1 1/4" NC x 4 1/2" lg + nylon locknut	1
37	6467	Splined adaptor 1 3/4" - 20 (welded)	1
38	110-15251	Auger drive shaft 34 1/8" lg overall (including no. 37 & 40)	1
39	Std.	Bolt 3/8" NC x 2 1/4" lg grade 5 + nylon locknut	1
40	150-02791	Bushing 3/8" i.d. x 1" o.d. x 3/4" lg (welded)	2
41	110-15231	Sprocket 80B10 + shearplate	1
42	160-06901	Brass bushing 1 3/4" i.d. x 2" o.d. x 1/2" lg	1
43	Std.	Grease fitting 1/4"-28 straight	13
44	8343	Bearing 1 1/4" + flange & 2 grease fitting (straight)	2
45	110-04521	Skid shoe (left side)	1
46	190-01451	Chain #80 x 85" lg (85 links)	1
46	26A80	Connecting link no. 80	1
46	59-80	Offset link no. 80	1
47	9287	Idler sprocket #80	2
48	160-06511	Spacer 3/4" i.d. x 1 1/16" o.d. x 3/4" lg	2
49	110-01052	Idler	1
50	110-01062	Threaded rod for idler adjustment + nut 7/16" NC	1
51	110-01071	Threaded tube for idler adjustment	1
52	9473	Compression spring	2
53	Std.	Bolt 7/16" NC x 1" lg + nylon locknut	5
54	Std.	Bolt 7/16" NC x 1 1/2" lg + nylon locknut	20
55	Std.	Flat washer 5/8"	1
56	Std.	Nylon locknut 5/8" NC (thin)	1
57	Std.	Roll pin 5/16" x 2" lg	2
58	110-15591	Chain guard cover	1

SNOWBLOWER P-992TRC (cont'd)

REF.	PART #	DESCRIPTION	QTY
59	8125	Rubber fastener	1
60	110-01602	Chain guard.....	1
61	Std.	Bolt 3/4" NC x 2 1/2" lg + nylon locknut	2
62	150-00332	Idler clevis pin	1
63	120-02732	Frame P-992TRC	1
64	8135	Chain guard for upper auger	opt.
65	Std.	4 Bolts 7/16" NC x 1 1/4" lg + 4 nylon locknut.....	opt.
66	190-01471	Chain #60 x 66 3/4" lg (89 links)	opt.
66	26A60	Connecting link no. 60	opt.
66	59-60	Offset link no. 60	opt.
67	8925	Inside guard (bolted)	1
68	Std.	Bolt 3/8" NC x 1" lg + nylon locknut & flat washer	4
69	130-01382	Inside guard (welded)	1
70	8186	Idler sprocket #60	opt.
71	9406	Idler for upper auger + 2 nuts 1/2" NC	opt.
72	Std.	Bolt 1/2" NC x 3 1/2" lg + nylon locknut & flat washer	opt.
73	Std.	Bolt 5/16" NC x 2 3/4" lg + nylon locknut	2
74	DXV50	Cushion valve 1/2"	1
75	9467	Hose 3/8"-RI x 38" lg + 1 fitting 6U108 + 1 fitting 6U106	2
76	9355 6x8	Fitting - 45°	1
77	Std.	Bolt 1/2" NC x 1 1/4" lg + nylon locknut	4
78	130-06561	Guard for ring gear segment	1
79	9566	Bearing 1 1/2" + flange + 2 grease fitting	3
80	Std.	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2
81	140-10761	Back plate	3
82	8344	Flange F-207 for 2 grease fitting	2
83	9567	Flange F208 for 2 grease fitting	3
84	9409	Bearing 1 1/2" UC208-24	3
85	Std.	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	8
86	9281	Sprocket 80A30 T 1 1/2" ø	1
87	9318	Lower auger P-992 (TRC)	1
88	9335	Upper auger P-992 (TRC)	opt.
89	8144	Sprocket 60A30 T 1 1/4" ø	opt.
90	8165	Bearing 1 1/4" UC207-20	2
91	9205 6x8	Fitting - straight	1
92	Std.	Bolt 7/16" NC x 1 1/4" lg + nylon locknut	4
93	130-02111	Deflector	1
94	Std.	Bolt 3/4" NF x 5" lg + nylon locknut.....	2
95	140-03442	3-point hitch reinforcement	1
96	160-03991	Spacer 1 1/2" i.d. x 2" o.d. x 7/16" lg (only for models without the upper auger)	1
97	160-07311	Bushing 1 1/2" i.d. x 1 7/8" o.d. x 1 1/4" lg	1
98	130-08152	Orbit motor support.....	1
99	Std.	Bolt 7/16" NC x 1 1/2" + nylon locknut & flat washer	4
100	Std.	Grease fitting 1/4"-28 90 deg.	2
101	110-12541	Hinged P.T.O. shroud	1
102	130-08441	Stop block for drum lock (welded on drum)	1
103	160-03952	Body - drum lock (welded on frame)	1
104	150-01542	Latch pin - drum lock	1
105	130-08471	Washer	1
106	300-38330	Bolt 7/16" NC x 1 3/4" lg + jam nut	1
107	150-02561	Pin	1
108	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut (thin)	4
109	Std.	Bolt 5/8" NC x 2" lg + nylon locknut	2
110	110-15201	Hoses support	1

SNOWBLOWER P-980 P-1040

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SNOWBLOWER P-980 P-1040 (cont'd)

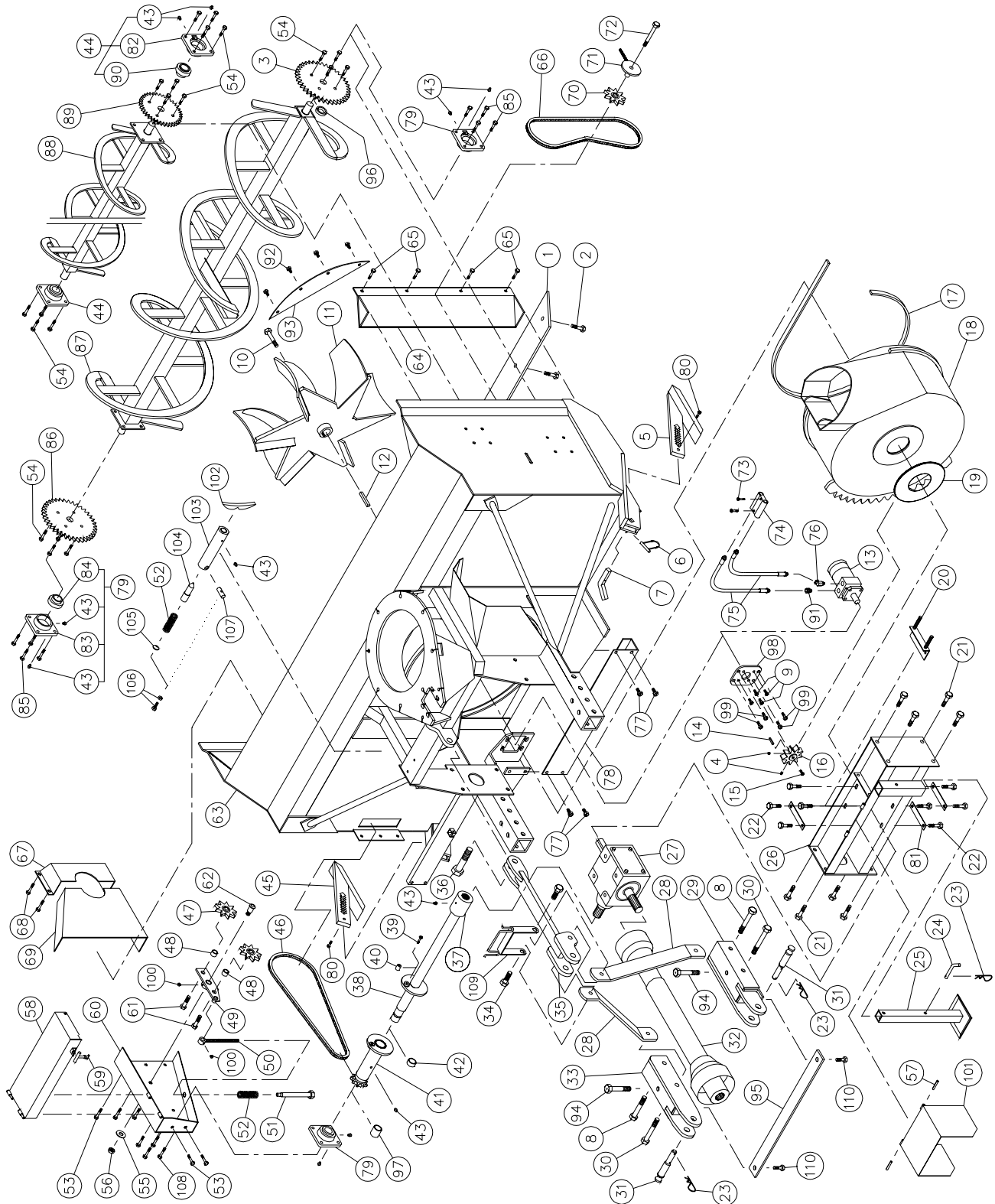
REF.	PART #	DESCRIPTION	QTY	
			P-980	P-1040
1	140-00831	Reversible scraper blade 3/8" x 4" x 90 1/2" lg	1	-
1	140-00851	Reversible scraper blade 3/8" x 4" x 96 1/2" lg	-	1
2	125-0717	Plow bolt 7/16" NC x 1 3/4" lg + nut & lock washer	9	10
3	9285	Square key 1/2" x 1/2" x 4" lg	1	1
4	Std.	4 Bolts 7/16" NC x 1 1/4" lg + 4 nylon locknut	opt.	opt.
5	110-04531	Skid shoe (right side)	1	1
6	8112	Lock pin 1/4"	2	2
7	140-03361	Skid shoes lock	2	2
8	Std.	Bolt 3/4" NF x 6" lg + nylon locknut	2	2
9	9462	Storage support	1	1
10	Std.	Bolt 5/8" NC x 1 1/4" lg + lock washer	8	8
11	8220	Storage support pin	1	1
12	9307	Gear box T-279	1	1
13	Std.	Hitch pin clip 5/32"	3	3
14	9428	Adjustment plate for gear box + 4 nut 1/2" NC	1	1
15	140-05582	3-point side bar	2	2
16	110-15212	Right lower hitch	1	1
17	Std.	Bolt 3/4" NF x 6 1/2" lg + nylon locknut	2	2
18	9269	Pin category 2	2	2
19	9225-EG	P.T.O. shaft T80	1	1
19	9475	P.T.O. shaft T90	opt.	opt.
20	110-15211	Left lower hitch	1	1
21	Std.	Bolt 5/8" NC x 2" lg + nylon locknut	1	1
22	110-15421	Upper hitch	1	1
23	6467	Splined adaptor 1 3/4" - 20 (welded)	1	1
24	110-14381	Auger drive shaft 37 1/8" lg overall (including no. 23 & 27)	1	-
24	110-15001	Auger drive shaft 40 1/8" lg overall (including no. 23 & 27)	-	1
25	Std.	Bolt 1 1/4" NC x 4 1/2" lg + nylon locknut	1	1
26	Std.	Bolt 3/8" NC x 2 1/4" lg grade 5 + nylon locknut	1	1
27	150-02791	Bushing 3/8" i.d. x 1" o.d. x 3/4" lg (welded)	2	2
28	110-14571	Sprocket 100B9 + shearplate	1	1
29	160-06901	Bushing 1 3/4" i.d. x 2" o.d. x 1/2" lg	1	1
30	Std.	Grease fitting 1/4"-28 straight	12	12
31	8343	Bearing 1 1/4" + flange & 2 grases fitting (straight)	2	2
32	110-04521	Skid shoe (left side)	1	1
33	190-01461	Chain # 100 x 88 3/4" lg (71 links)	1	1
33	26A100	Connecting link no. 100	1	1
33	59-100	Offset link no. 100	1	1
34	120-02692	Frame P-980	1	-
34	120-02712	Frame P-1040	-	1
35	150-00332	Idler clevis pin	1	1
36	9470	Idler sprocket # 100	2	2
37	160-06511	Spacer 3/4" d.i. x 1 1/16" o.d. x 3/4" lg	2	2
38	110-01052	Idler	1	1
39	110-01062	Threaded rod for idler adjustment + nut 7/16" NC	1	1
40	110-01071	Threaded tube for idler adjustment	1	1
41	9473	Compression spring	1	1
42	Std.	Bolt 3/4" NC x 2 1/2" lg + nylon locknut	2	2
43	110-01602	Chain guard	1	1
44	Std.	Bolt 7/16" NC x 1" lg + nylon locknut	5	5
45	Std.	Bolt 7/16" NC x 1 1/2" lg + nylon locknut	20	20
46	Std.	Flat washer 5/8"	1	1
47	Std.	Nylon locknut 5/8" NC (thin)	1	1
48	Std.	Roll pin 5/16" x 2" lg	2	2
49	8125	Rubber fastener	1	1

SNOWBLOWER P-980 P-1040 (cont'd)

REF.	PART #	DESCRIPTION	QTY	
			P-980	P-1040
50	110-15471	Chain guard cover	1	-
50	110-15491	Chain guard cover	-	1
51	130-01372	Inside guard (welded)	1	1
52	Std.	Bolt 3/8" NC x 1" lg + nylon locknut & flat washer	4	4
53	8925	Inside guard (bolted)	1	1
54	8135	Chain guard for upper auger	opt.	opt.
55	190-01481	Chain # 60 x 69 3/4" lg (93 links)	opt.	opt.
55	26A26	Connecting link # 60	opt.	opt.
55	59-60	Offset link # 60	opt.	opt.
56	8186	Idler sprocket #60	opt.	opt.
57	9406	Idler for upper auger + 2 nuts 1/2" NC	opt.	opt.
58	Std.	Bolt 1/2" NC x 3 1/2" lg + nylon locknut & flat washer	opt.	opt.
59	8165	Bearing 1 1/4" UC207-20	2	2
60	Std.	Bolt 7/16" NC x 1 1/4" lg + nylon locknut	4	4
61	130-05911	Deflector	1	1
62	Std.	Bolt 3/4" NF x 5" lg + nylon locknut	2	2
63	140-03572	3-point hitch reinforcement	1	1
64	160-03991	Spacer 1 1/2" i.d. x 2" o.d. x 7/16" lg (only for models without the upper auger)	1	1
65	140-10761	Back plate	3	3
66	9566	Bearing 1 1/2" + flange + 2 grease fitting	3	3
67	160-06891	Bushing 1 3/4" i.d. x 1 15/16" o.d. x 1 1/4" lg	1	1
68	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut (thin)	4	4
69	8344	Flange F207 for 2 grease fitting	2	2
70	9567	Flange F208 for 2 grease fitting	3	3
71	9409	Bearing 1 1/2" UC208-24	3	3
72	Std.	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	8	8
73	9471	Sprocket 100A24 T 1 1/2" ø	1	1
74	9315	Lower auger P-980 (TRC)	1	-
74	9254	Lower auger P-1040 (TRC)	-	1
75	9330	Upper auger P-980 (TRC)	opt.	-
75	9331	Upper auger P-1040 (TRC)	-	opt.
76	8144	Sprocket 60A30 T 1 1/4" ø	opt.	opt.
77	9326	Sprocket 60A38 T 1 1/2" ø	opt.	opt.
78	110-01621	Impeller 34" ø - 15" depth - 6 blades	1	1
79	8228	Impeller cap screw 5/8" NC(assembled with locktite 242) x 1 1/2" lg + lock washer	1	1
80	Std.	Grease fitting 1/4"-28 90 deg.	2	2
81	110-12541	Hinged P.T.O. shroud	1	1
82	Std.	Bolt 3/4" NC x 3" lg + nylon locknut + flat washer 1 1/2" o.d.	2	2
83	Std.	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2	2
84	110-15201	Hoses support	1	1

SNOWBLLOWERS P-980TRC P-1040TRC

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SNOWBLOWERS P-980TRC P-1040TRC (cont'd)

REF.	PART #	DESCRIPTION	QTY	
			P-980TRC	P-1040TRC
1	140-00831	Reversible scraper blade 3/8" x 4" x 90 1/2" lg	1	-
1	140-00851	Reversible scraper blade 3/8" x 4" x 96 1/2" lg	-	1
2	125-0717	Plow bolt 7/16" NC x 1 3/4" lg + nut & lock washer	9	10
3	9326	Sprocket 60A38 T 1 1/2" ø	opt.	opt.
4	Std.	Hexagonal socket set screw 3/8" NC x 3/8" lg	2	2
5	110-04531	Skid shoe (right side)	1	1
6	8112	Safety square pin 3.5 mm x 84 mm	2	2
7	140-03361	Skid shoes lock	2	2
8	Std.	Bolt 3/4" NF x 6" lg + nylon locknut	2	2
9	Std.	Bolt 3/8" NC x 1" lg + lock washer	4	4
10	8228	Impeller cap screw 5/8" NC x 1 1/2" lg (assembled with locktite 242) + lock washer	1	1
11	110-01621	Impeller 34" ø 6 blades	1	1
12	9285	Square key 1/2" x 1/2" x 4" lg	1	1
13	- - -	Hydraulic motor	opt.	opt.
14	- - -	Key (as motor requirement)	opt.	opt.
15	Std.	Bolt 1/4" NC x 3/4" lg + lock washer	1	1
16	110-04721	Sprocket (9 teeth)	1	1
17	9430	U-shaped UHMW 3/8" x 7/8" x 109 1/4" lg	1	1
18	110-12851	Rotary drum 34" ø	1	1
19	9432	UHMW flat washer 3/16" x 8 5/8" i.d. x 11 1/2" o.d.	1	1
20	9428	Adjustment plate for gear box + 4 nuts 1/2" NC	1	1
21	Std.	Bolt 3/4" NC x 2" lg + nylon locknut	8	8
22	Std.	Bolt 5/8" NC x 1 1/4" lg + lock washer	8	8
23	Std.	Hitch pin clip 5/32"	3	3
24	8220	Storage support pin	1	1
25	9462	Storage support	1	1
26	9433	Gear box support	1	1
27	9307	Gear box T-279	1	1
28	140-05592	3-point side bar	2	2
29	110-15212	Right lower hitch	1	1
30	Std.	Bolt 3/4" NF x 6 1/2" lg + nylon locknut	2	2
31	9269	Pin category 2	2	2
32	9225-EG	P.T.O. shaft T80	1	1
32	9475	P.T.O. shaft T90	opt.	opt.
33	110-15211	Left lower hitch	1	1
34	Std.	Bolt 3/4" NC x 3" lg + nylon locknut + flat washer 1 1/2" o.d.	2	2
35	110-15531	Upper hitch	1	1
36	Std.	Bolt 1 1/4" NC x 4 1/2" lg + nylon locknut	1	1
37	6467	Splined adaptor 1 3/4" - 20 (welded)	1	1
38	110-14381	Auger drive shaft 37 1/8" lg overall (including no. 37 & 40)	1	-
38	110-15001	Auger drive shaft 40 1/8" lg overall (including no. 37 & 40)	-	1
39	Std.	Bolt 3/8" NC x 2 1/4" lg grade 5 + nylon locknut	1	1
40	150-02791	Bushing 3/8" i.d. x 1" o.d. x 3/4" lg (welded)	2	2
41	110-14571	Sprocket 100B9 + shearplate	1	1
42	160-06901	Brass bushing 1 3/4" i.d. x 2" o.d. x 1/2" lg	1	1
43	Std.	Grease fitting 1/4"-28 straight	13	13
44	8343	Bearing 1 1/4" + flange + 2 grease fitting (straight)	2	2
45	110-04521	Skid shoe (left side)	1	1
46	190-01461	Chain #100 x 88 3/4" lg (71 links)	1	1
46	26A100	Connecting link no. 100	1	1
46	59-100	Offset link no. 100	1	1
47	9470	Idler sprocket #100	2	2

SNOWBLOWERS P-980TRC P-1040TRC (cont'd)

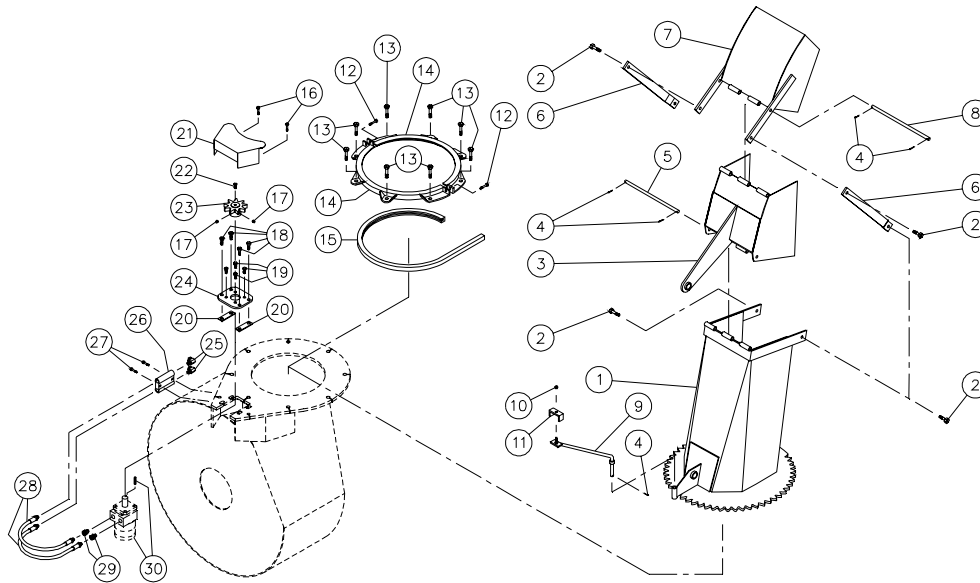
REF.	PART #	DESCRIPTION	QTY	
			P-980TRC	P-1040TRC
48	160-06511	Spacer 3/4" i.d. x 1 1/16" o.d. x 3/4" lg	2	2
49	110-01052	Idler	1	1
50	110-01062	Threaded rod for idler adjustment + nut 7/16" NC	1	1
51	110-01071	Threaded tube for idler adjustment	1	1
52	9473	Compression spring	2	2
53	Std.	Bolt 7/16" NC x 1" lg + nylon locknut	5	5
54	Std.	Bolt 7/16" NC x 1 1/2" lg + nylon locknut	20	20
55	Std.	Flat washer 5/8"	1	1
56	Std.	Nylon locknut 5/8" NC (thin)	1	1
57	Std.	Roll pin 5/16" x 2" lg	2	2
58	110-15471	Chain guard cover	1	-
58	110-15491	Chain guard cover	-	1
59	8125	Rubber fastener	1	1
60	110-01602	Chain guard	1	1
61	Std.	Bolt 3/4" NC x 2 1/2" lg + nylon locknut	2	2
62	150-00332	Idler clevis pin	1	1
63	120-02752	Frame P-980TRC	1	-
63	120-02772	Frame P-1040TRC	-	1
64	8135	Chain guard for upper auger	opt.	opt.
65	Std.	4 Bolts 7/16" NC x 1 1/4" lg + 4 nylon locknuts	opt.	opt.
66	190-01481	Chain #60 x 69 3/4" lg (93 mailles)	opt.	opt.
66	26A60	Connecting link no. 60	opt.	opt.
66	59-60	Offset link no. 60	opt.	opt.
67	8925	Inside guard (bolted)	1	1
68	Std.	Bolt 3/8" NC x 1" + nylon locknut & flat washer	4	4
69	130-01372	Inside guard (welded)	1	1
70	8186	Idler sprocket #60	opt.	opt.
71	9406	Idler for upper auger chain (hole 1/2") + 2 nuts 1/2" NC	opt.	opt.
72	Std.	Bolt 1/2" NC x 3 1/2" lg + nylon locknut & flat washer	opt.	opt.
73	Std.	Bolt 5/16" NC x 2 3/4" lg + nylon locknut	2	2
74	DXV50	Cushion valve 1/2"	1	1
75	9467	Hose 3/8"-RI x 38" lg + 1 fitting 6U108 + 1 fitting 6U106	1	1
76	9355x6x8	Fitting - 45°	1	1
77	Std.	Bolt 1/2" NC x 1 1/4" lg + nylon locknut	4	4
78	130-06571	Guard for ring gear segment	1	1
79	9566	Bearing 1 1/2" + flange + 2 grease fitting	3	3
80	Std.	Bolt 1/4" NC x 1 1/2" lg + nylon locknut	2	2
81	140-10761	Back plate	3	3
82	8344	Flange F-207 for 2 grease fitting	2	2
83	9567	Flange F208 for 2 grease fitting	3	3
84	9409	Bearing 1 1/2" UC208-24	3	3
85	Std.	Bolt 1/2" NC x 1 3/4" lg + nylon locknut	8	8
86	9471	Sprocket 100A24 T 1 1/2" ø	1	1
87	9315	Lower auger P-980 (TRC)	1	-
87	9254	Lower auger P-1040 (TRC)	-	1
88	9330	Upper auger P-980 (TRC)	opt.	-
88	9331	Upper auger P-1040 (TRC)	-	opt.
89	8144	Sprocket 60A30 T 1 1/4" ø	opt.	opt.
90	8165	Bearing 1 1/4" UC207-20	2	2
91	9205x6x8	Fitting (straight)	1	1
92	Std.	Bolt 7/16" NC x 1 1/4" lg + nylon locknut	4	4

SNOWBLOWERS P-980TRC P-1040TRC (cont'd)

REF.	PART #	DESCRIPTION	QTY	
			P-980TRC	P-1040TRC
93	130-05911	Deflector	1	1
94	Std.	Bolt 3/4" NF x 5" lg + nylon locknut.....	2	2
95	140-03562	3-point hitch reinforcement	1	1
96	160-03991	Spacer 1 1/2" i.d. x 2" o.d. x 7/16" lg (only for models without the upper auger)	1	1
97	160-06891	Bushing 1 3/4" i.d. x 2" o.d. x 1 1/4" lg	1	1
98	130-08152	Orbit motor support.....	1	1
99	Std.	Bolt 7/16" NC x 1 1/2" + nylon locknut & flat washer	4	4
100	Std.	Grease fitting 1/4"-28 90 deg.	2	2
101	110-12541	Hinged P.T.O. shroud	1	1
102	130-08441	Stop block for drum lock (welded on drum)	1	1
103	160-03952	Body - drum lock (welded on frame)	1	1
104	150-01542	Latch pin - drum lock	1	1
105	130-08471	Washer	1	1
106	300-38330	Bolt 7/16" NC x 1 3/4" lg + jam nut	1	1
107	150-02561	Pin	1	1
108	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut (thin)	4	4
109	110-15201	Hoses support	1	1
110	Std.	Bolt 5/8" NC x 2" lg + écrou à blocage de nylon	2	2

SEMI-INDUSTRIAL CHUTE PSI-92104

170-02081

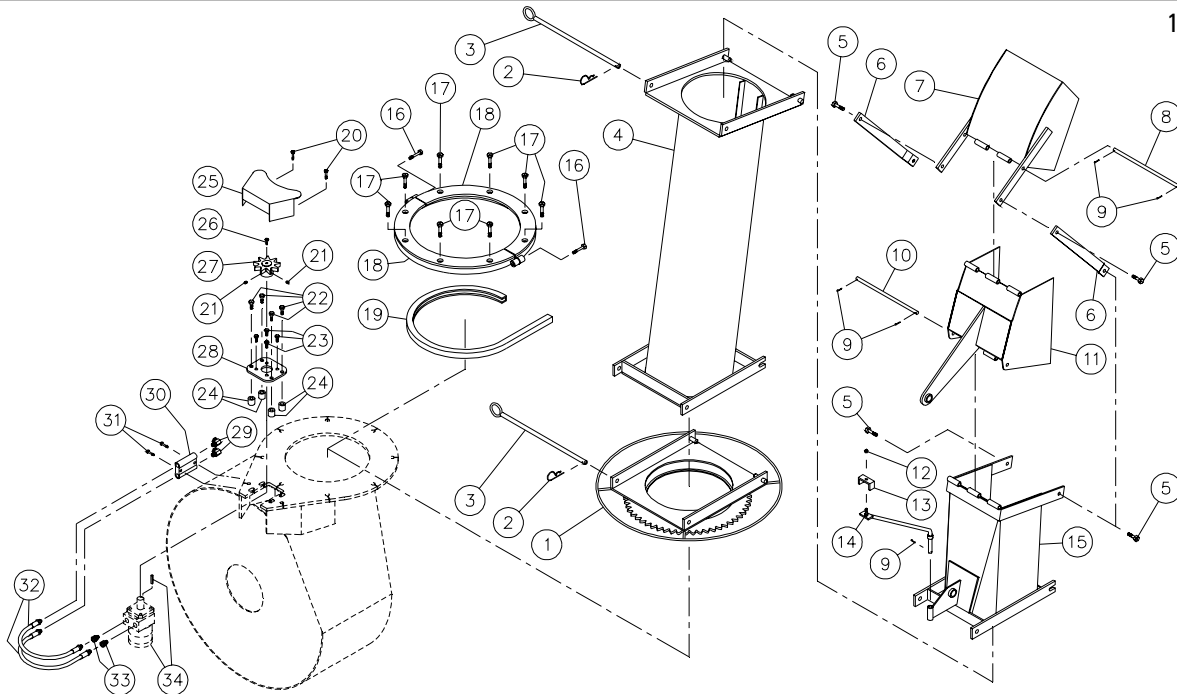


REF.	PART #	DESCRIPTION	QTY
1	110-01581	Chute base	1
2	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon lock nut	4
3	9419	Lower chute deflector	1
4	Std.	Cotter pin 1/8" x 1" lg	5
5	9418	Lower chute deflector pin	1
6	9415	Connecting rod	2
7	9416	Upper chute deflector	1
8	9417	Upper chute deflector pin	1
9	Std.	Nylon locknut 5/16" NC	1
10	140-00881	Hoses support plate	1
11	110-01111	Hoses support rod	1
12	Std.	Bolt 5/16" NC x 2" lg + nylon locknut	2
13	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut & flat washer	8
14	110-00832	Retaining bracket	2
15	9359	U-shaped UHMW +/- 16 1/2" d.i.	1
16	Std.	Bolt 5/16" NC x 1 1/4" lg + nylon locknut	2
17	Std.	Hexagonal socket set screw 3/8" NC x 3/8" lg	2
18	Std.	Bolt 7/16" NC x 1 1/2" lg + nylon locknut & flat washer	4
19	Std.	Bolt 3/8" NC x 1" lg + lock washer	4
20	140-09571	Spacer 1/8" x 1" x 3 1/4" lg	2
21	130-14281	Guard	1
22	Std.	Bolt 1/4" NC x 3/4" lg + lock washer	1
23	110-04182	Sprocket (9 teeth)	1
24	130-08151	Orbit motor support	1
25	9405x8x8	Fitting 90 deg. swivel	2
26	DXV50	Cushion valve	1
27	Std.	Bolt 5/16" NC x 2 1/2" lg + nylon locknut	2
28	190-00421	Hose 3/8" x 16" lg + 2 fittings 6U108	2
29	9205x8x8	Fitting (straight - swivel)	2
30	---	Orbit hydraulic motor	opt.

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INDUSTRIAL CHUTE PC-92104

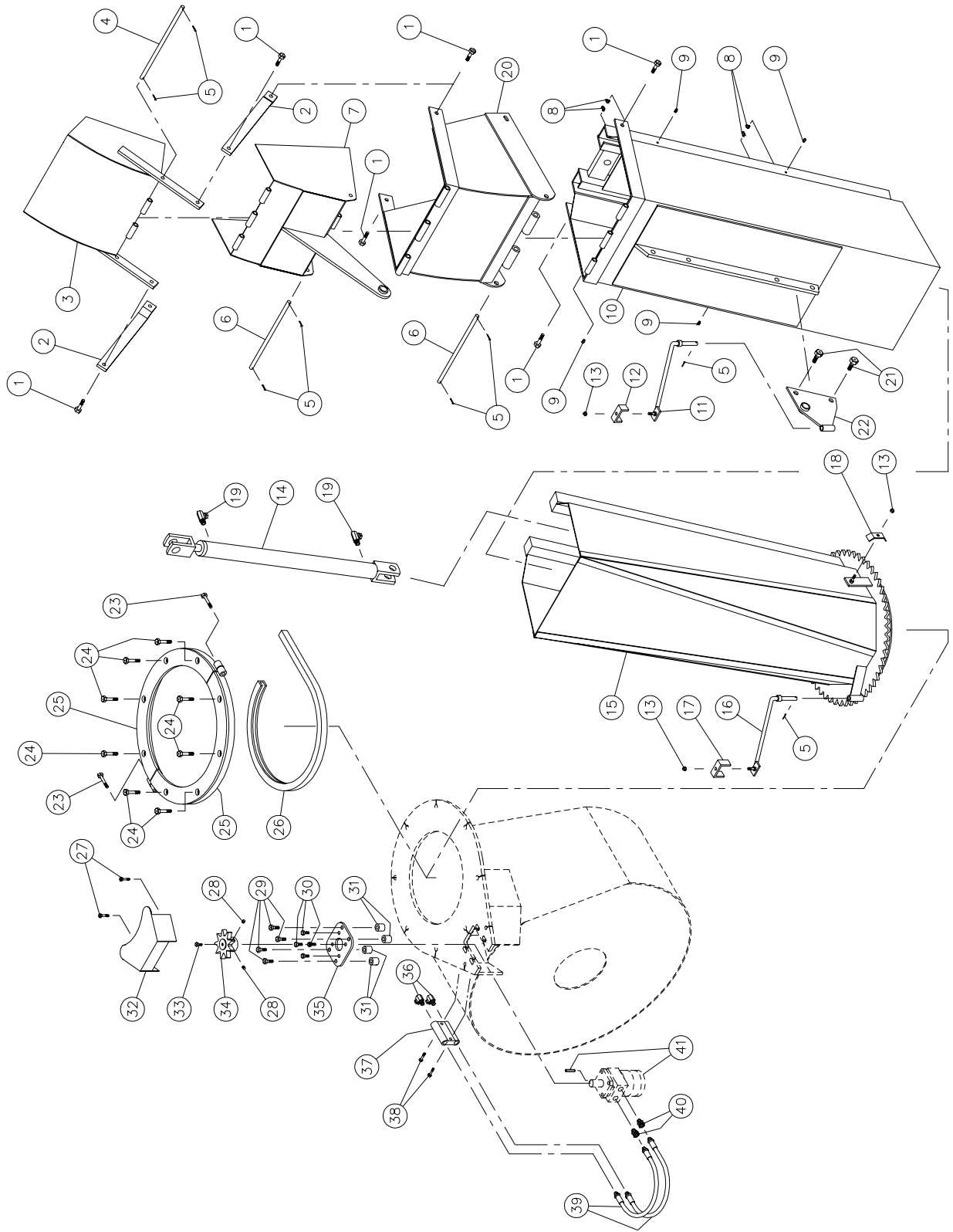
170-02091



REF.	PART #	DESCRIPTION	QTY
1	110-00681	Chute adaptor with quick attach	1
2	Std.	Hitch pin clip 5/32"	2
3	9414	Pin for quick attach (adaptor & extension)	2
4	PR-92104-2	Extension 24"	opt.
4	PR-92104	Extension 48"	opt.
5	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon lock nut	4
6	9415	Connecting rod	2
7	9416	Upper deflector	1
8	9417	Upper deflector pin	1
9	Std.	Cotter pin 1/8" x 1" lg	5
10	9418	Lower deflector pin	1
11	9419	Lower deflector	1
12	Std.	Nylon locknut 5/16" NC	1
13	140-00881	Hoses support plate	1
14	110-01111	Hoses support rod	1
15	110-01541	Chute base	1
16	Std.	Bolt 7/16" NC x 3" lg + nylon locknut	2
17	Std.	Bolt 1/2" NC x 3"lg + nylon locknut & 16 flat washers	8
18	110-12351	Retaining bracket	2
19	190-03381	U-shaped UHMW +/- 16" i.d.	1
20	Std.	Bolt 5/16" NC x 1 1/4" lg + nylon locknut	2
21	Std.	Hexagonal socket set screw 3/8" NC x 3/8" lg	2
22	Std.	Bolt 7/16" NC x 2 1/2" lg + nylon locknut & flat washer	4
23	Std.	Bolt 3/8" NC x 1" lg + lock washer	4
24	160-01331	Spacer 1/2" i.d. x 1" o.d. x 59/64" lg	4
25	130-14281	Guard	1
26	Std.	Bolt 1/4" NC x 3/4" lg + lock washer	1
27	110-04182	Sprocket (9 teeth)	1
28	130-08151	Orbit motor support	1
29	9405x8x8	Fitting 90 deg. swivel	2
30	DXV50	Cushion valve	1
31	Std.	Bolt 5/16" NC x 2 1/2" lg + nylon locknut	2
32	190-00421	Hose 3/8" x 16" lg + 2 fittings 6U108	2
33	9205x8x8	Fitting (straight - swivel)	2
34	---	Orbit hydraulic motor	opt.

HYDRAULIC TELESCOPIC CHUTE PCTH-92104

170-02101

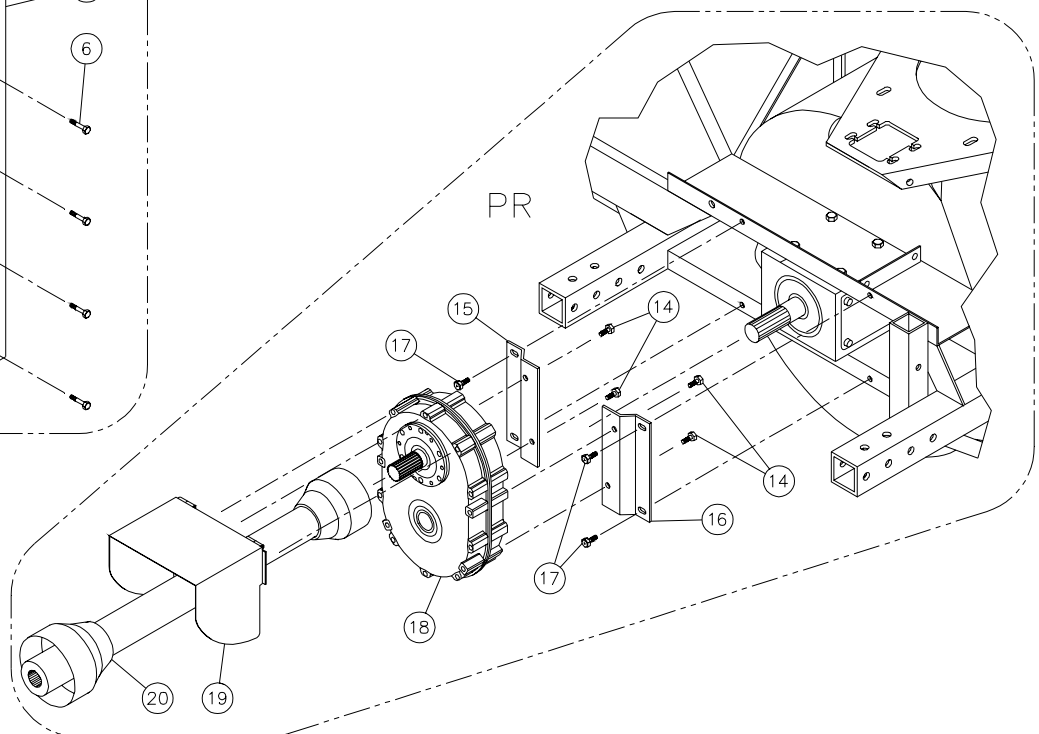
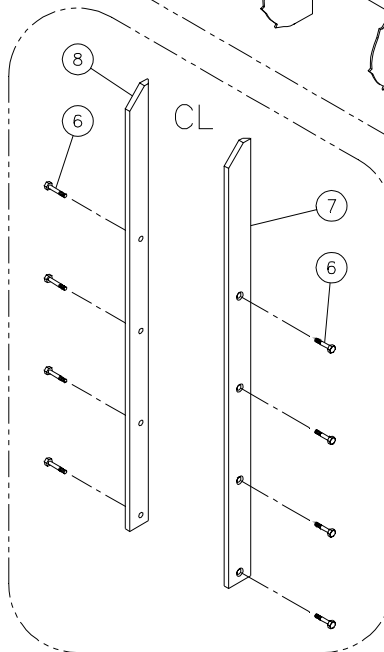
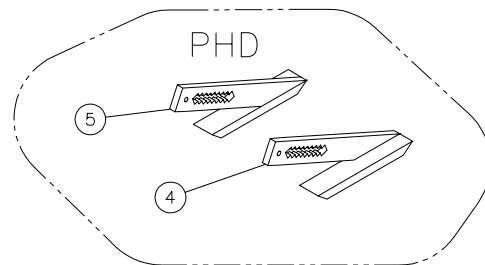
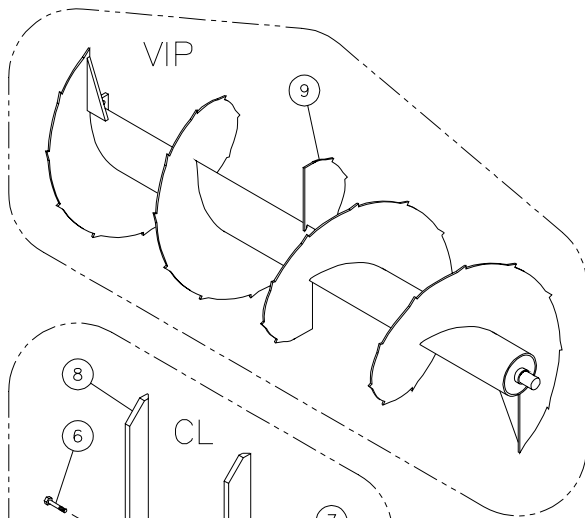
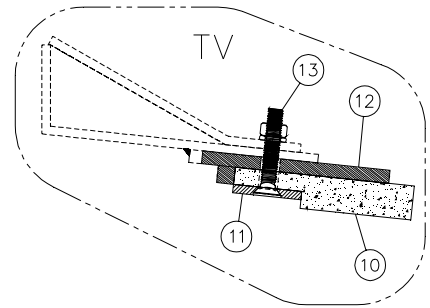
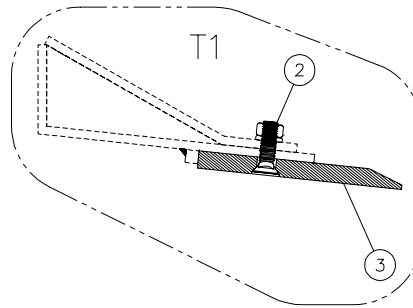
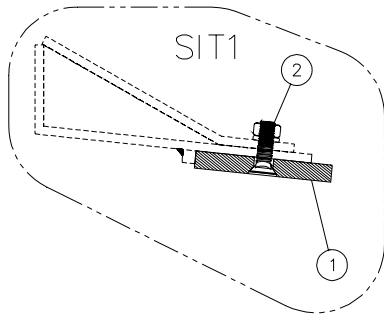


HYDRAULIC TELESCOPIC CHUTE PCTH-92104

REF.	PART #	DESCRIPTION	QTY
1	Std.	Bolt ½" NC x 1 ½ lg + nylon locknut	6
2	9415	Connecting rod	2
3	110-04951	Upper chute deflector	1
4	150-01131	Upper chute deflector pin	1
5	Std.	Cotter pin 1/8" x 1" lg	8
6	150-01141	Lower chute deflector pin	2
7	110-04961	Lower chute deflector	1
8	Std.	Grease fitting 1/4" - 28 90°	4
9	Std.	Grease fitting 1/4" - 28 straight	4
10	110-05553	Upper extension	1
11	110-01121	Mounting support plate for upper extension	1
12	140-00881	Hoses mounting plate	1
13	Std.	Nylon locknut 5/16" NC	2
14	20G28	Cylinder 2" x 28" stroke	1
15	110-05563	Lower extension	1
16	110-04981	Mounting support plate for lower extension	1
17	140-03651	Hoses mounting plate	1
18	140-00481	Hoses mounting plate	1
19	9405-6-6	Fitting 3/8" NPT 90 deg. (swivel)	2
20	110-12941	Extension 16"	1
21	Std.	Bolt 5/8" NC x 2" lg + nylon locknut	2
22	110-11931	Ajustable stanchion for deflector cylinder	1
23	Std.	Bolt 7/16" NC x 3" lg + nylon locknut	2
24	Std.	Bolt 1/2" NC x 3" lg + nylon locknut & 16 flat washers	8
25	110-12351	Retaining bracket	2
26	190-03381	U-shaped UHMW +/- 16" i.d.	1
27	Std.	Bolt 5/16" NC x 1 1/4" lg + nylon locknut	2
28	Std.	Hexagonal socket set screw 3/8" NC x 3/8" lg	2
29	Atd.	Bolt 7/16" NC x 2 1/2" lg + nylon locknut & flat washer	4
30	Std.	Bolt 3/8" NC x 1" lg + lock washer	4
31	160-01331	Spacer 1/2" i.d. x 1" o.d. x 59/64" lg	4
32	130-14281	Guard	1
33	Std.	Bolt 1/4" NC x 3/4" lg + lock washer	1
34	110-04182	Sprocket (9 teeth)	1
35	130-08151	Orbit motor support	1
36	9405x8x8	Fitting 90 deg. swivel	2
37	DXV50	Cushion valve	1
38	Std.	Bolt 5/16" NC x 2 1/2" lg + nylon locknut	2
39	190-00421	Hose 3/8" x 16" lg + 2 fittings 6U108	2
40	9205x8x8	Fitting (straight - swivel)	2
41	- - -	Orbit hydraulic motor	opt.

OPTIONS

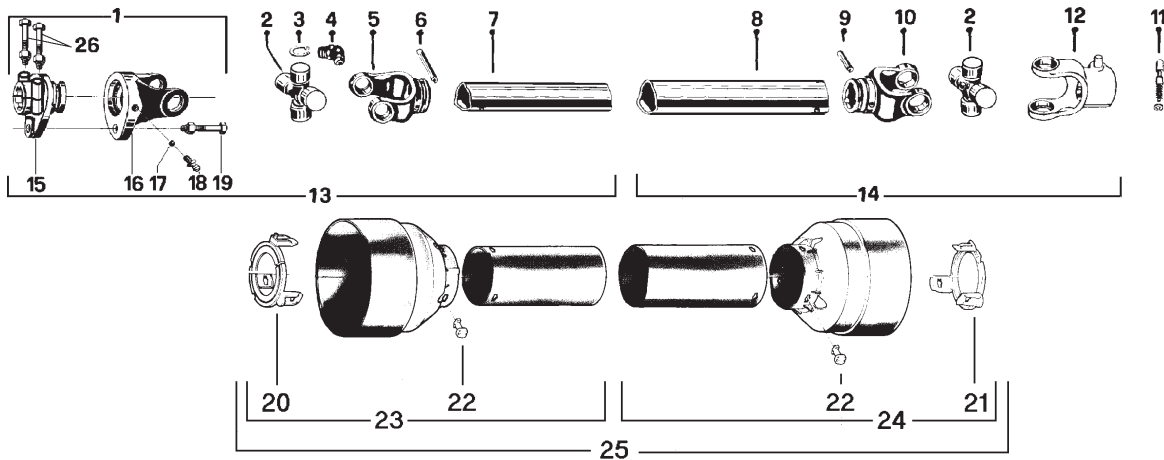
170-02113



OPTIONS

REF.	PART #	DESCRIPTION	P-992	P-992 TRC	P-980	P-980 TRC	P-1040	P-1040 TRC
1	140-04081	Scraper blade (hardened steel, not sharpened, reversible) 1/2" x 4" x 84 1/2"	1	1	-	-	-	-
1	140-04091	Scraper blade (hardened steel, not sharpened, reversible) 1/2" x 4" x 90 1/2"	-	-	1	1	-	-
1	140-04101	Scraper blade (hardened steel, not sharpened, reversible) 1/2" x 4" x 96 1/2"	-	-	-	-	1	1
2	319-38325	Flow bolt 7/16" NCx 1 3/4" lg+ nut & lock washer	9	9	9	9	10	10
3	140-04141	Scraper blade (hardened steel, sharpened, not reversible) 1/2" x 6" x 84 1/2"	1	1	-	-	-	-
3	140-04151	Scraper blade (hardened steel, sharpened, not reversible) 1/2" x 6" x 90 1/2"	-	-	1	1	-	-
3	140-04161	Scraper blade (hardened steel, sharpened, not reversible) 1/2" x 6" x 96 1/2"	-	-	-	-	1	1
4	110-05511	Carbon steel skid shoe (right side)	1	1	1	1	1	1
5	110-04811	Carbon steel skid shoe (right side)	1	1	1	1	1	1
6	319-38310	Flow bolt 7/16" NCx 1 1/2" lg+ nut & lock washer	8	8	8	8	8	8
7	130-08301	Lateral blade (right side)	1	1	-	-	-	-
7	130-08311	Lateral blade (right side)	-	-	1	1	1	1
8	130-08302	Lateral blade (left side)	1	1	-	-	-	-
8	130-08312	Lateral blade (left side)	-	-	1	1	1	1
9	9425	Full flight spiked auger 23" ø for P992 (TRC)	1	1	-	-	-	-
9	9426	Full flight spiked auger 26" ø for P980 (TRC)	-	-	1	1	-	-
9	9427	Full flight spiked auger 26" ø for P-1040 (TRC)	-	-	-	-	1	1
10	190-01331	Scraper blade, TIVAR not reversible 1" x 5 1/4" x 84 1/2"	1	1	-	-	-	-
10	190-04011	Scraper blade, UHMW not reversible 1" x 5 1/4" x 84 1/2"	1	1	-	-	-	-
10	190-01321	Scraper blade, TIVAR not reversible 1" x 5 1/4" x 90 1/2"	-	-	1	1	-	-
10	190-04021	Scraper blade, UHMW not reversible 1" x 5 1/4" x 90 1/2"	-	-	1	1	-	-
10	190-01341	Scraper blade, TIVAR not reversible 1" x 5 1/4" x 96 1/2"	-	-	-	-	1	1
10	190-04061	Scraper blade, UHMW not reversible 1" x 5 1/4" x 96 1/2"	-	-	-	-	1	1
11	140-03991	TIVAR or UHMW blade bolting plate 1/4" x 2" x 84 1/2"	1	1	-	-	-	-
11	140-03981	TIVAR or UHMW blade bolting plate 1/4" x 2" x 90 1/2"	-	-	1	1	-	-
11	140-04001	TIVAR or UHMW blade bolting plate 1/4" x 2" x 96 1/2"	-	-	-	-	1	1
12	110-10391	TIVAR or UHMW blade holder 3/8" x 5 1/2" x 84 1/2"	1	1	-	-	-	-
12	110-10381	TIVAR or UHMW blade holder 3/8" x 5 1/2" x 90 1/2"	-	-	1	1	-	-
12	110-10401	TIVAR or UHMW blade holder 3/8" x 5 1/2" x 96 1/2"	-	-	-	-	1	1
13	319-38370	Flow bolt 7/16" NCx 2 1/2" lg+ nut & locknut	9	9	9	9	10	10
14	Std.	Bolt 1/2" NCx 3/4" lg+ nut & lock washer	4	4	4	4	4	4
15	130-16041	Mounting plate for speed reducer 1000@540 "left"	1	1	1	1	1	1
16	130-16042	Mounting plate for speed reducer 1000@540 "right"	1	1	1	1	1	1
17	Std.	Bolt 1/2" NCx 1 1/4" lg+ nylon locknut & flat washer (x)	4	4	4	4	4	4
18	9575	Speed reducer 1000@540 "triple chain"	1	1	1	1	1	1
19	110-12961	Hnger P.T.O shroud 1000@540	1	1	1	1	1	1
20	9569	P.T.O T80, QD 1 3/8" -21, SBI 1 3/4" -20	1	1	1	1	1	1
20	9475-1	P.T.O T90, QD 1 3/8" -21, SBI 1 3/4" -20	1	1	1	1	1	1
20	9475-2	P.T.O T90, QD 1 3/4" -20, SBI 1 3/4" -20	1	1	1	1	1	1

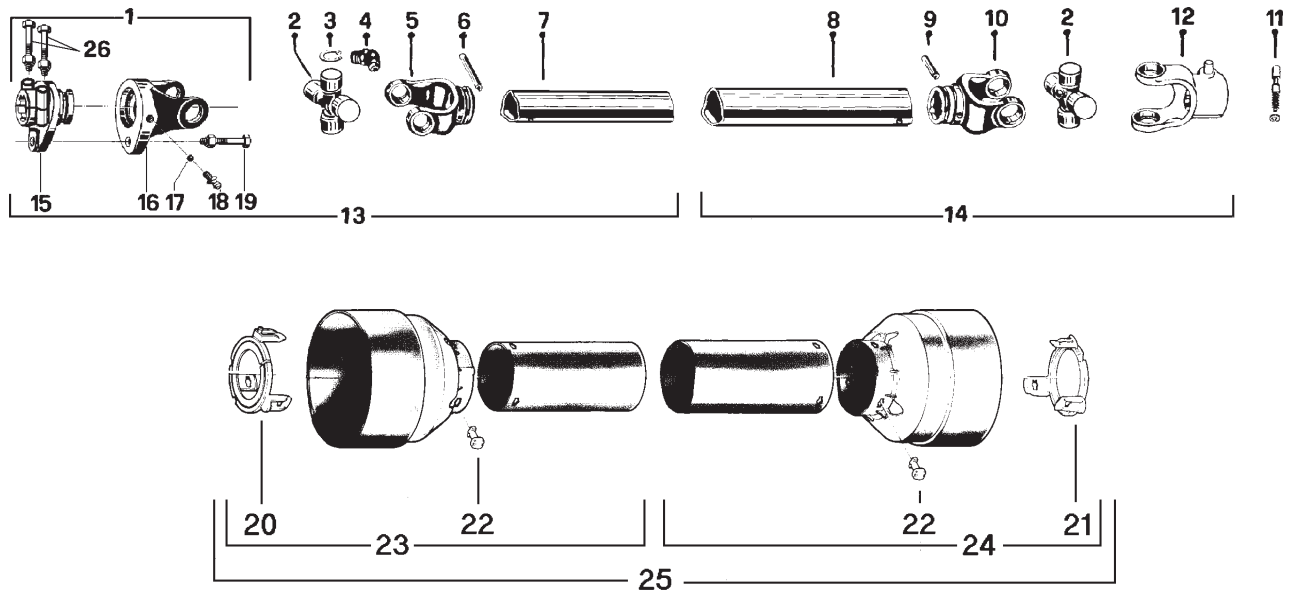
P.T.O. SHAFT # 9225-EG, 9225-1 & 9569 (T80)



REF.	PART #	DESCRIPTION	9225-EG	9225-1	9569
or [1	9570	Safety shear yoke M10 (2 bolts) 1 3/4" - 20 splines	-	-	1
1	9453	Safety shear yoke M12 (2 bolts) 1 3/4" - 20 splines	1	-	1
1	9464-2	Safety shear yoke M10 (2 bolts) 1 3/8" - 6 splines	-	1	-
2	9208	U-joint + 4 retaining rings + 1 grease fitting	2	2	2
3	9454	Retaining ring	8	8	8
4	8110	Grease fitting	2	2	2
5	9214	Yoke for inner tube	1	1	1
6	8075	Stopper for inner tube	1	1	1
7	9212	Inner tube	1	1	1
8	9211	Outer tube	1	1	1
9	9210-E	Stopper for outer tube	1	1	1
10	9209	Yoke for outer tube	1	1	1
11	8068	Yoke stopper 1 3/8"	2	2	2
12	9455	Yoke with hole 1 3/8"-6 splines + yoke stopper	1	1	-
12	9463	Yoke with hole 1 3/8"-21 splines + yoke stopper	-	-	1
12	9224	Yoke with hole 1 3/4"-20 splines + yoke stopper	-	-	opt.
13	9456	P.T.O. section, SBI 1 3/4"-20, inner part, without protector	1	-	1
13	9456-1	P.T.O. section, SBI 1 3/8"-6, inner part, without protector	-	1	-
14	9457	P.T.O. section, QD 1 3/8"-6, outer part, without protector	1	1	-
14	9457-2	P.T.O. section, QD 1 3/8"-21, outer part, without protector	-	-	1
or [15	9458	Adaptor 1 3/4"-20 splines (2 bolts) (hole 12 mm)	1	-	1
15	9571	Adaptor 1 3/4"-20 splines (2 bolts) (hole 10 mm)	-	-	1
15	9458-2	Adaptor 1 3/8"-6 splines (2 bolts) (hole 10 mm)	-	1	-
or [16	9204	Yoke and shearplate (hole 12 mm)	1	-	1
16	9572	Yoke and shearplate (hole 10 mm)	-	-	1
16	9572	Yoke and shearplate (hole 10 mm)	-	1	-
17	9205	Ball	17	17	17
18	8071	Grease fitting	1	1	1
19	9207	Safety shear bolt M12 x 65 mm	1	-	-
19	8218	Safety shear bolt M10 x 60 mm	-	1	-
or [19	9207-375	Safety shear bolt M12 x 65 mm diam. 3/8"	-	-	1
19	8218	Safety shear bolt M10 x 60 mm	-	-	1
20	9459	Bearing ring for inner guard tube	1	1	1
21	9460	Bearing ring for outer guard tube	1	1	1
22	8109	Stopper	6	6	6
23	9221	Inner shield	1	1	1
24	9220	Outer shield	1	1	1
25	9222	Complete shield	1	1	1
26	9461	Bolt M12 x 90mm + lock nut	2	2	2

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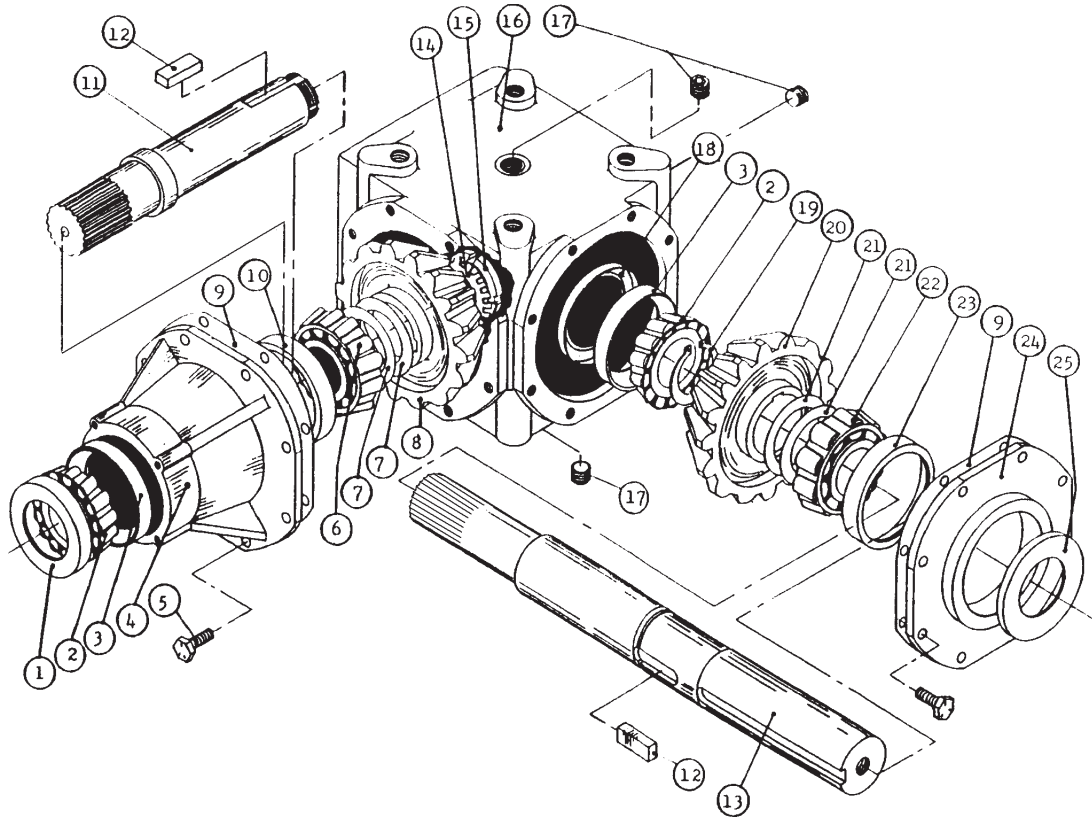
P.T.O. SHAFT # 9475, 9475-1 & 9475-2 (T90)



REF.	PART #	DESCRIPTION	9475	9475-1	9475-2
1	9476	Safety shear yoke (2 bolts) 1 3/4" - 20 splines	1	1	1
2	9477	U-joint + 4 retaining rings + 1 grease fitting	2	2	2
3	9478	Retaining ring	8	8	8
4	8110	Grease fitting	2	2	2
5	9479	Yoke for inner tube	1	1	1
6	9210	Stopper for tube	1	1	1
7	9212	Inner tube	1	1	1
8	9211	Outer tube	1	1	1
9	9210	Stopper for tube	1	1	1
10	9480	Yoke for outer tube	1	1	1
11	9336	Yoke stopper 1 15/16"	2	2	2
12	9481	Yoke with hole 1 3/8"-6 splines + yoke stopper	1	-	-
12	9482	Yoke with hole 1 3/8"-21 splines + yoke stopper	-	1	-
12	9483	Yoke with hole 1 3/4"-20 splines + yoke stopper	-	-	1
13	9484	P.T.O. section, SBI 1 3/4"-20, inner part, without protector	1	1	1
14	9485	P.T.O. section, QD 1 3/8"-6, outer part, without protector	1	-	-
14	9485-1	P.T.O. section, QD 1 3/8"-21, outer part, without protector	-	1	-
14	9485-2	P.T.O. section, QD 1 3/4"-20, outer part, without protector	-	-	1
15	9486	Adaptor 1 3/4"-20 splines (2 bolts)	1	1	1
16	9487	Yoke and shearplate	1	1	1
17	9205	Ball	24	24	24
18	8071	Grease fitting	1	1	1
19	9207	Safety shear bolt M12 x 65mm	1	-	-
19	9207-375	Safety shear bolt M12 x 65mm diam 3/8"	-	1	1
20	9459	Bearing ring for inner guard tube	1	1	1
21	9460	Bearing ring for outer guard tube	1	1	1
22	8109	Stopper	6	6	6
23	9221	Inner shield	1	1	1
24	9220	Outer shield	1	1	1
25	9222	Complete shield	1	1	1
26	8222	Bolt M12 x 70mm + lock nut	2	2	2

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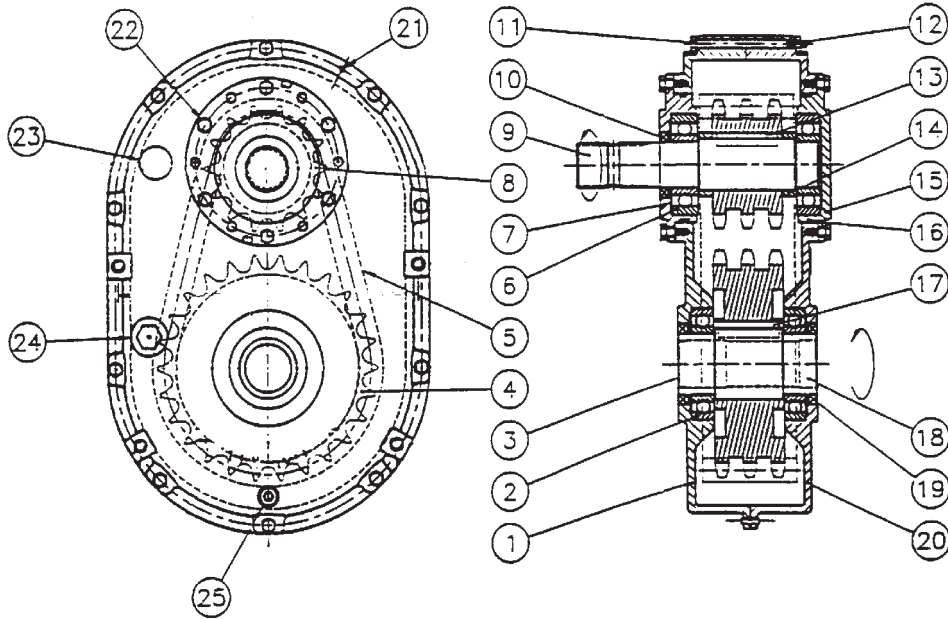
GEAR BOX # 9307 (T279)



REF.	PART #	DESCRIPTION	QTY
1	6314	Oil seal 52 x 85 x 10	1
2	6315	Bearing 30209: cone	2
3	6317	Bearing 30209: cup	2
4	6318	Extension	1
5	6319	Bolt M10 x 22	16
6	6320	Bearing 32209: cone	1
7	6321	Shim	2
8	6322	Gear Z21	1
9	6323	Gasket	2
10	6324	Bearing 32209: cup	1
11	6325	Side shaft Z20 (1 3/4" - 20 splines)	1
12	6326	Key B14 x 9 x 40	2
13	9345	Impeller shaft (2" & 1 3/4" - 20 splines)	1
14	6328	Spring washer	1
15	6329	Lock nut M40 x 1.5 H9	1
16	6330	Casing	1
17	6331	Plug 3/8" gas	3
18	6332	Dust excluder 45 x 72 x 8	1
19	6333	External circlip 50 UNI7435	1
20	6334	Gear Z21	1
21	6335	Shim	2
22	6336	Bearing 30210: cone	1
23	6337	Bearing 30210: cup	1
24	6338	Cover	1
25	6339	Oil seal 50 x 72 x 8	1
2 + 3	6411	Roller bearing no. 30209	2
6 + 10	6410	Roller bearing no. 32209	1
22 + 23	6412	Roller bearing no. 30210	1

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REDUCTION GEAR BOX # 9575, 8348

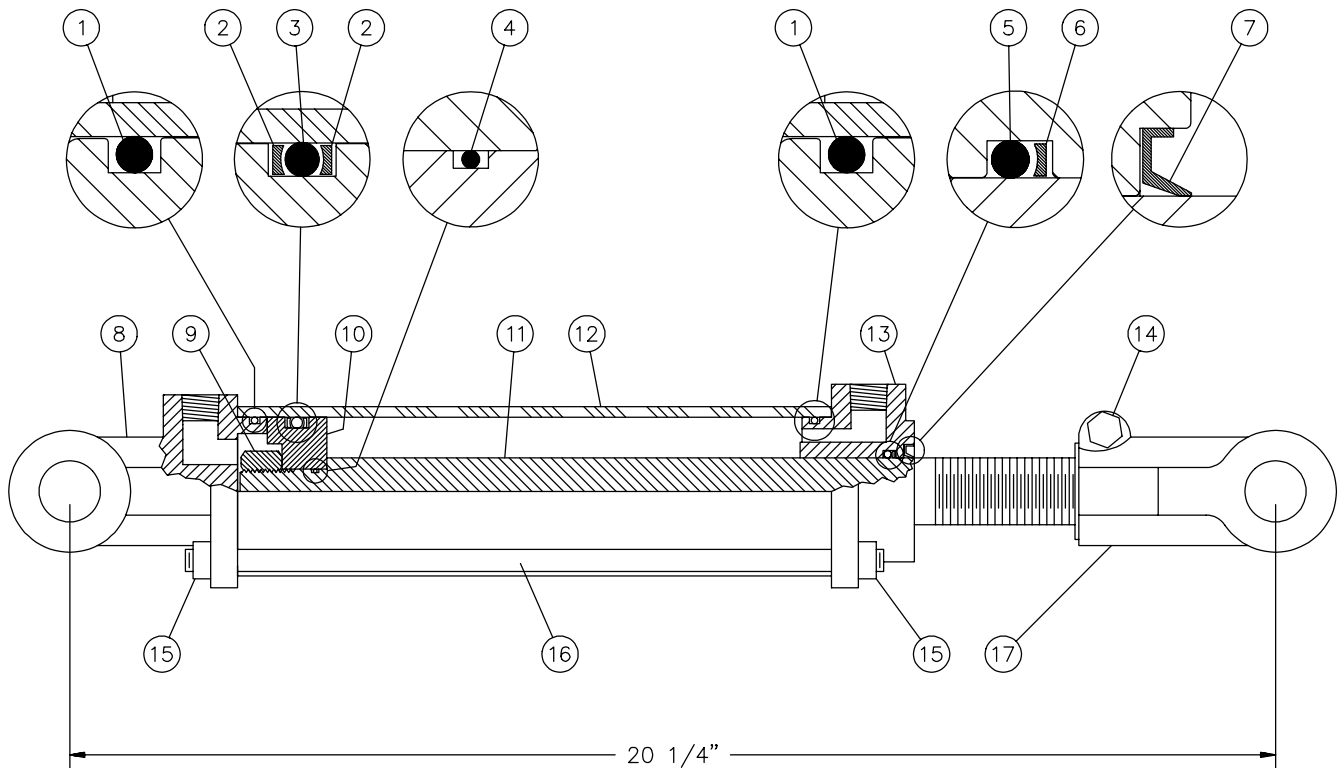


REF.	PART #	DESCRIPTION	QTY	
			9575	8348
1	9546	Casing with plug	1	1
2	6212-RS	Bearing 6212	2	2
3	9547	Seal cover (47 x 7)	1	1
4	9548	Sprocket 80-3A26	1	1
5	9549	Chain 80-3 x 36" lg	1	1
6	6309-RS	Bearing 6309	2	2
7	9550	Input cover with hole	1	1
8	9551	Sprocket 80-3A14	1	1
9	9552	Input shaft 1 3/4"-20 splines	1	-
9	8349	Input shaft 1 3/8"-6 splines	-	1
9	9553	Oil seal (45x65x8) TC double lips	1	1
11	Std.	Bolt 5/16" NC x 4 1/2" lg	10	10
12	Std.	Nut 5/16" NC	10	10
13	9554	Square key 1/2" x 2 1/2"	1	1
14	9555	Spacer (2 - 2 3/8 - 0.568)	2	2
15	9556	Input cover w/o hole	1	1
16	9557	O-ring AS-248	2	2
17	9558	Square key 5/8" x 2 1/2"	1	1
18	9559	Output shaft 1 3/4"-20 splines	1	-
18	8350	Output shaft 1 3/8"-6 splines	-	1
19	9560	Oil seal (60 x80x10) TC double lips	2	2
20	9561	Casing w/o plug	1	1
21	9562	Slotted spring pin 3/16" x 3/4"	2	2
22	Std.	Bolt 3/16" NC x 3/4" lg	12	12
23	9563	Air vent 1/2" NPT	1	1
24	9564	Sight glass 3/4" NPT	1	1
25	9565	Drain plug 1/2" NPT	1	1

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CYLINDER 25TR08

15050



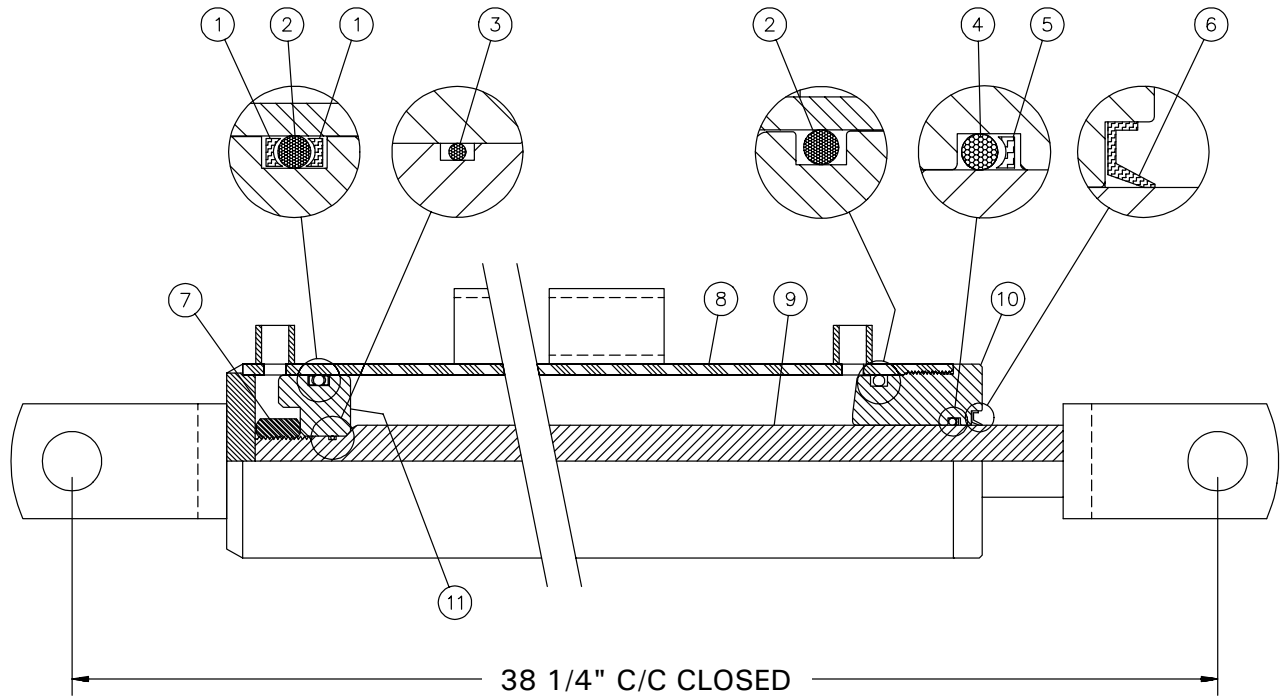
REF.	PART #	DESCRIPTION	QTY
1	See #RK25TR	O-ring 1/8" x 2 1/4" x 2 1/2"	2
2	See #RK25TR	Back-up 2 1/2" o.d. x 3/16 ø	2
3	See #RK25TR	O-ring 3/16" x 2 1/8" x 2 1/2"	1
4	See #RK25TR	O-ring 1/16" x 5/8" x 3/4"	1
5	See #RK25TR	O-ring 1/8" x 1 1/8" x 1 3/8"	1
6	See #RK25TR	Back-up 1 3/8" o.d. x 1/8" ø	1
7	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	Std.	Nut 3/4" NF	1
10	4924-31	Piston 2 1/2" ø	1
11	491980	Piston rod 1 1/8"	1
12	491668	Cylinder body 2 1/2" ø	1
13	492421	Head (for 2 1/2" tube)	1
14	Std.	Bolt 3/8" NC x 2 1/4" lg + nut	1
15	Std.	Nut 3/8" NC	8
16	Std.	Threaded rod 3/8" NC x 12" 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

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*NI = NOT ILLUSTRATED

CYLINDER 20G28

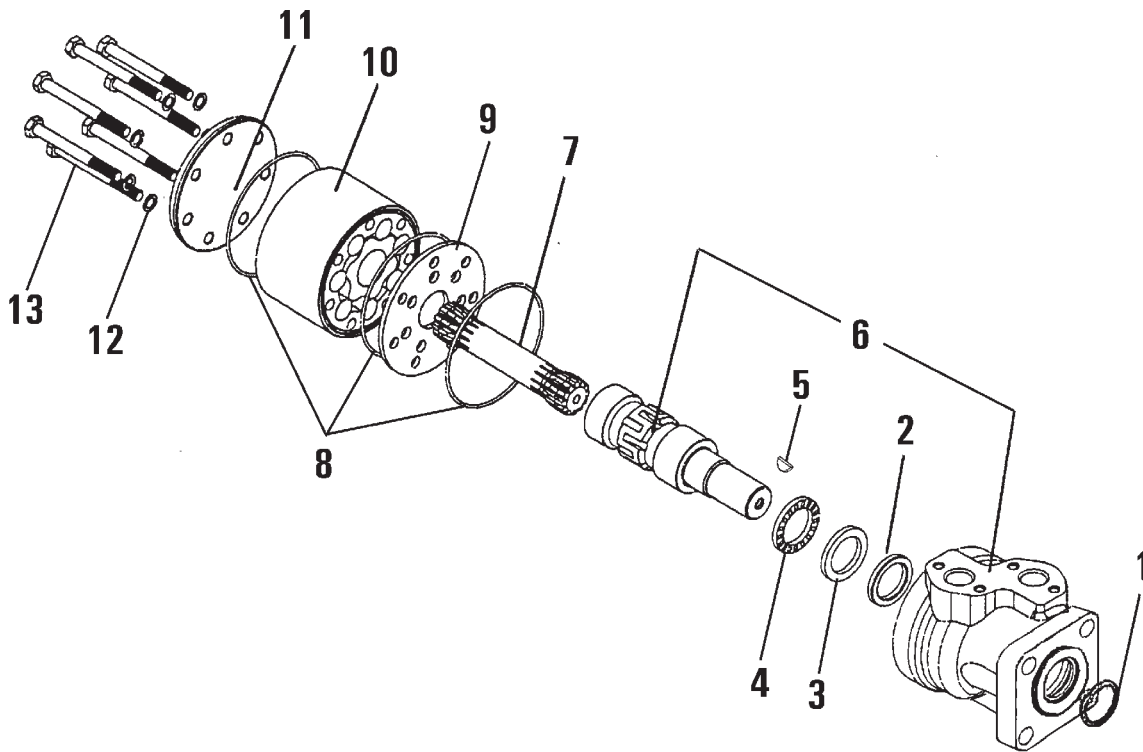
170-00671



REF.	PART #	DESCRIPTION	QTY
1	BU-326	Back-up ring 3/16" x 1 5/8" x 2"	2
2	OR-326	O-ring 3/16" x 1 5/8" x 2"	2
3	OR-016	O-ring 1/16" x 5/8" x 3/4"	1
4	OR-216	O-ring 1/8" x 1 1/8" x 1 3/8"	1
5	BU-216	Back-up ring 1/8" x 1 1/8" x 1 3/8"	1
6	CR11050	Wiper 1/8" x 1 1/8" x 1 3/8"	1
7	Std.	Nut 3/4" NF	1
8	110-04491	Cylinder body 2" dia.	1
9	110-04501	Piston rod 1 1/4" dia.	1
10	D-6021	Head 2" dia.	1
11	D-6020	Piston 2" dia.	1
NI*	9488	Repair kit (includes # 1, 2, 3, 4, 5 & 6)	1

*NI = NOT ILLUSTRATED

HYDRAULIC MOTOR # DH 250 & DH 315










REF.	CODE #	DESCRIPTION	QTY	
			DH 250	DH 315
1	633B0370	Dust seal ring	1	1
2	633B0414	Shaft seal BAKDH ring	1	1
3	151-5708	Bearing race	1	1
4	151-5709	Axial needle bearing	1	1
5	682L9054	Woodruff key	1	1
6	-----	Housing and output shaft	not sold	
7	151-2649	Cardan shaft	1	-
7	151-2650	Cardan shaft	-	1
8	633B1173	O-ring	3	3
9	151-1713	Distributor plate	1	1
10	151-1193	Gear wheel set	1	-
10	151-1186	Gear wheel set	-	1
11	151-2673	End cover	1	1
12	684X0076	Washer	6	6
13	681X0184	Screw M8 x 1.25mm Din 931 x 60mm lg	6	-
13	681X0186	Screw M8 x 1.25mm Din 931 x 70mm lg	-	6
NI*	151-1286	Set of seals	1	1






*NI = NOT ILLUSTRATED

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.	Pound feet max.	Newton meters min.	Newton meters max.	Pound feet min.	Pound feet max.	Newton meters min.	Newton meters max.	Pound feet min.	Pound feet max.	Newton meters min.	Newton meters 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.	Pound feet max.	Newton meters min.	Newton meters max.	Pound feet min.	Pound feet max.	Newton meters min.	Newton meters max.	Pound feet min.	Pound feet max.	Newton meters min.	Newton meters 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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Ce manuel est aussi disponible en français.
Veuillez téléphoner.



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