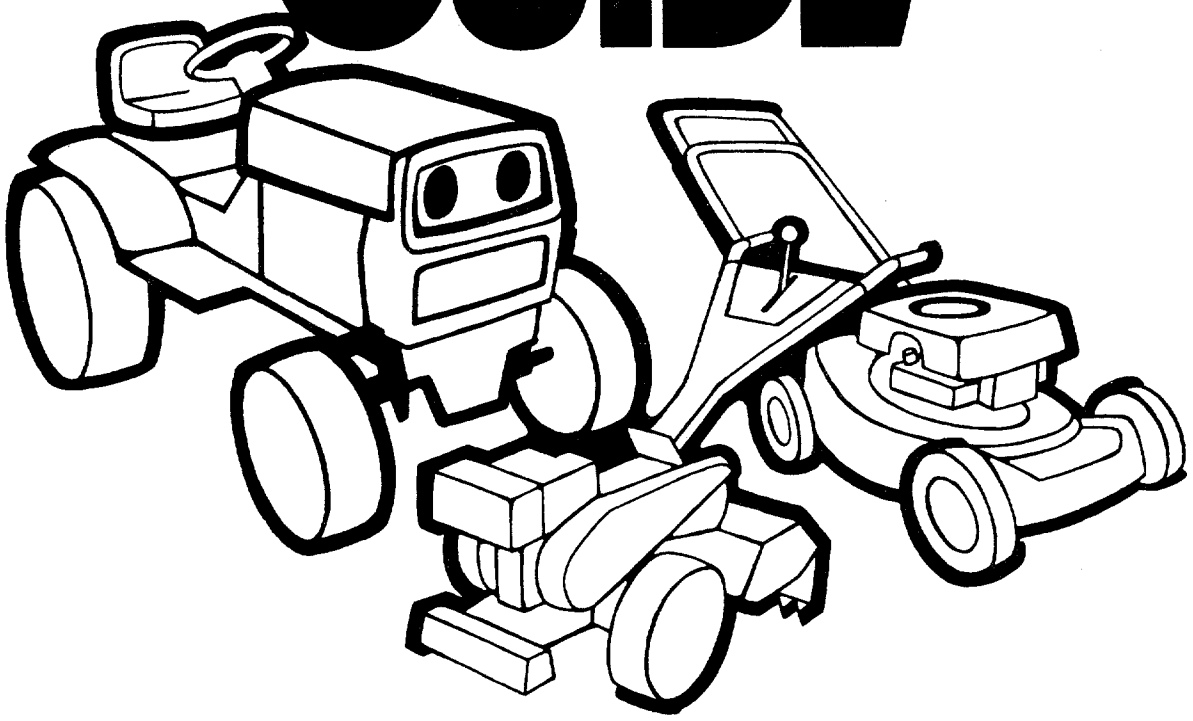
$1.00

OWNER'S GUIDE



40″ SNOW THROWER ATTACHMENT

Model Numbers
190-930-000
19930
TMO-33012B

IMPORTANT: Read Safety Rules and Instructions Carefully

Thank you for purchasing an American-built product.

FORM NO. 770-5302D

IMPORTANT

Safe Operation Practices for Snow Throwers

TRAINING

1. Read the owner's guide instruction manual carefully. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate equipment. Never allow adults to operate equipment without proper instruction.
3. Keep the area of operation clear of all persons, especially small children and pets.
4. Exercise caution to avoid slipping or falling, especially when operating in reverse.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.
2. Disengage all clutches and shift into neutral before starting engine or motor.
3. Do not operate equipment without wearing adequate winter outer garments. Wear footwear which will improve footing on slippery surfaces.
4. Handle fuel with care, it is highly flamamble.
   (A) Use approved fuel container.
   (B) Never add fuel to a running engine or hot engine.
   (C) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
   (D) Replace gasoline cap securely and wipe up spilled fuel.
   (E) Open doors if engine is run in the garage-exhaust fumes are dangerous.
5. Adjust collector housing height to clear gravel or crushed rock surface.
6. Never attempt to make any adjustments while engine or motor is running (except where specifically recommended by manufacturer).
7. Never operate the snow thrower without good visibility or light.
8. Let engine and machine adjust to outdoor temperatures before starting to clear snow.

OPERATION

1. Do not put hands or feet near rotating parts. Keep clear of discharge opening at all times.
2. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards and traffic. Do not carry passengers.
3. After striking foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
4. If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop engine (motor) whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and making any repairs, adjustments, or inspections.
6. Take all possible precaution when leaving the vehicle unattended, disengage the power take-off, lower the attachment, shift into neutral, set the parking brake, stop the engine, remove the key.
7. When cleaning, repairing, or inspecting make certain collector/impeller, and all moving parts have stopped. Disconnect spark plug wire and keep wire away from plug to prevent accidental starting. Disconnect cord on electric motors.
8. Do not run engine indoors, exhaust fumes are dangerous.
9. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
10. Never operate snow thrower without guards, plates, or other safety protective devices in place.
11. Never operate snow thrower near glass enclosure, automobiles, window wells, drop-offs, etc., without proper adjustment of snow discharge angle. Keep children and pets away.
12. Do not overload machine capacity by attempting to clear snow at too fast a rate.
13. Never operate machine at high transport speeds on slippery surfaces. Use care when backing.
14. Never direct discharge at bystanders or allow anyone in front of unit.
15. Disengage power to collector/impeller when transporting or not in use.
16. Only use attachments and accessories approved by manufacturer of snow thrower (such as wheel weights, counter weights, cabs, etc.).

MAINTENANCE AND STORAGE

1. Check shear bolts, engine mounting bolts, etc. at frequent intervals for proper tightness to be sure equipment is in safe working condition.
2. Never store machine with fuel in the fuel tank inside a building where open flame or spark is present. Allow engine to cool before storing in any enclosure.
3. Always refer to owner's guide instructions for important details if snow thrower is to be stored for an extended period.
4. Run machine a few minutes after throwing snow to prevent freeze up of collector/impeller.

ASSEMBLY INSTRUCTIONS

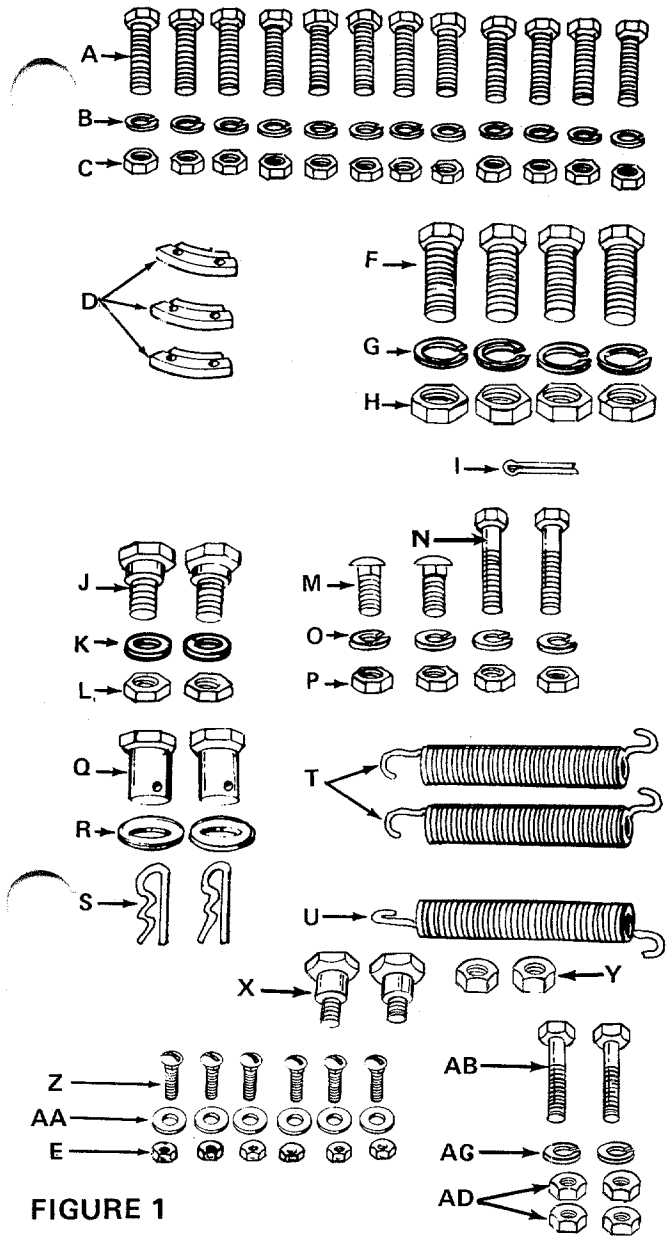


FIGURE 1

TOOLS REQUIRED

(1) Adjustable wrench
(1) 9/16" Open end or box wrench
(1) 1/2" Open end or box wrench
(1) 7/16" Open end or box wrench
(1) 3/4" Open or box wrench
(1) 11/16" Open end or box wrench
(1) Pair of pliers

CONTENTS OF HARDWARE PACK:

(See figure 1)

A	(12)	Hex Bolts 3/8-24 x 1" long
B	(12)	Lock Washers 3/8" I.D.
C	(12)	Hex Lock Nuts 3/8-24 Thread
D	(3)	Flange Keepers
E	(6)	Hex Lock Nuts 1/4-20 Thread
F	(4)	Hex Bolts 1/2-20 Thread
G	(4)	Lock Washers 1/2" I.D.
H	(4)	Hex Lock Nuts 1/2-20 Thread
I	(1)	Cotter Pin
J	(2)	Shoulder Bolts 7/16-14 Thread
K	(2)	Flat Washers 7/16" I.D.
L	(2)	Hex Lock Nuts 7/16-14 Thread
M	(2)	Carriage Bolts 5/16-18 x 5/8" long
N	(2)	Hex Bolts 5/16-18 x 1-1/2" long
O	(4)	Lock Washers 5/16" I.D.
P	(4)	Hex Nuts 5/16-18 Thread
Q	(2)	Clevis Pins
R	(2)	Flat Washers 1/2" I.D.
S	(2)	Hairpin Cotters
T	(2)	Springs 5/8" O.D. x 6-1/8" long
U	(1)	Spring 1/2" O.D. x 5" long
V	(1)	Attaching Plate (Not Shown)
W	(2)	Rear Hanger Brackets-L.H. and R.H. (Not Shown)
X	(2)	Shoulder Bolts 3/8-16 Thread*
Y	(2)	Hex Lock Nuts 3/8-16 Thread*
Z	(6)	Truss Machine Screw 1/4-20 x 3/4"
AA	(6)	Flat Washers 1/4" I.D.
AB	(2)	Hex Bolts 1/4-28 x 1-1/2" long
AC	(2)	Lock Washers 1/4" I.D.
AD	(4)	Hex Nuts 1/4-28 Thread
AE	~~(1)~~(2)	Lift Link (Not Shown) STRAIGHT LINKS

*Used on 18 H.P. hydrostatic tractors only

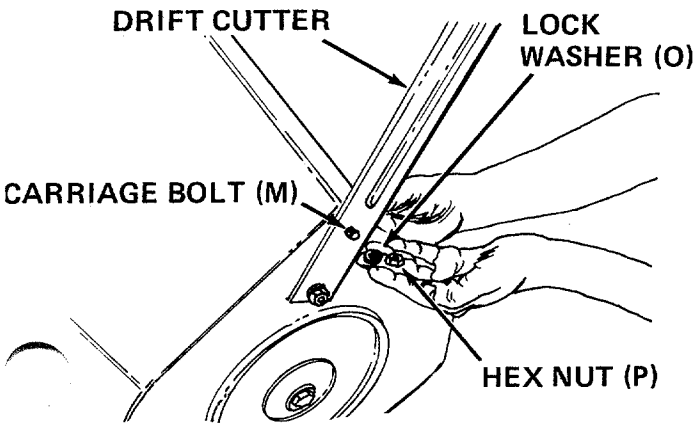


FIGURE 2

LOOSE PARTS IN CARTON:

(1) Chute Assembly
(1) Front Support Channel
(2) Rear Support Angles (L.H. and R.H.)
(1) Supporting Bracket Subassembly
(1) V-Belt
(1) Guide Plate
(1) Chute Crank Rod and Support Tubing

1. Using a 1/2" wrench, remove the carriage bolts, lock washers and hex nuts holding the drift cutters to the snow thrower housing. Turn and place the drift cutters in position. Secure with the carriage bolts (M) (heads of bolts are to the inside of the housing), lock washers (O) and hex nuts (P).

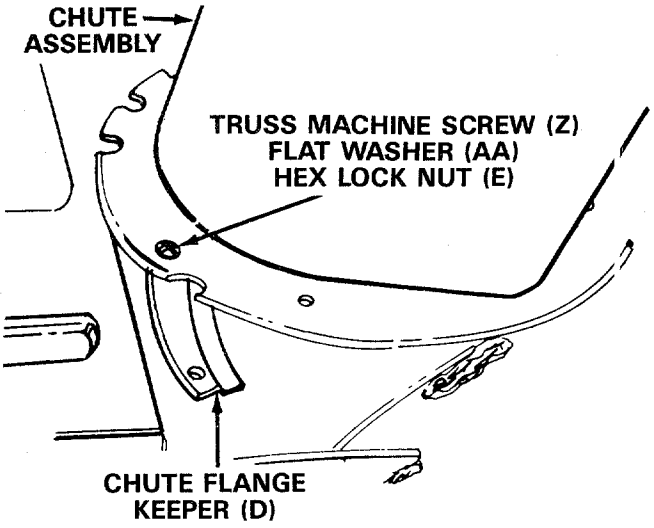


FIGURE 3

2. Grease the chute opening on the snow thrower using a multi-purpose automotive grease or equivalent.
3. Place chute assembly over chute opening, with the opening in the chute assembly facing the front of the unit. Place chute flange keepers (D) beneath lip of chute assembly. Secure with truss machine screw (Z), flat washers (AA) and hex lock nuts (E) as shown in figure 3. Tighten with a 7/16" wrench, then back off 1/4 turn to allow easier movement.

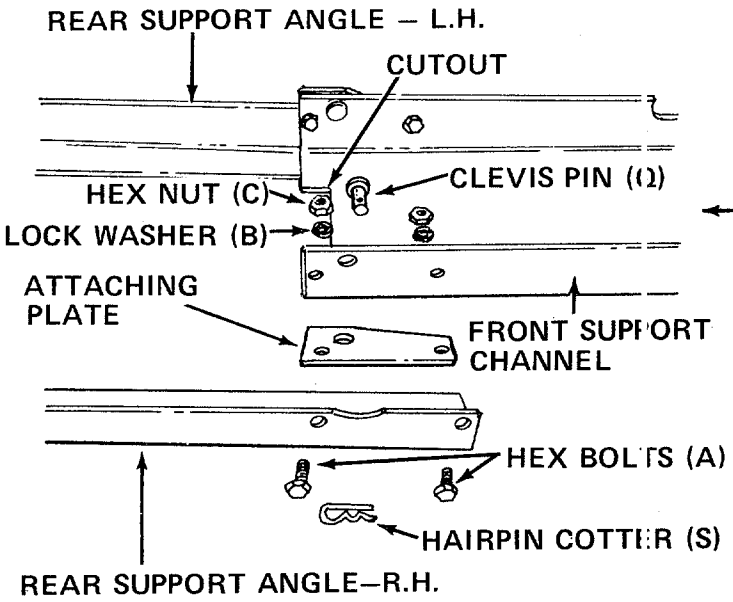


FIGURE 4

4. Preassemble the front support channel and the rear support angles as follows.
   A. Place the front support channel on work bench or the floor. Place the rear support angles in position against the end of the front support channel which has the cutout as shown in figure 4.
   B. Place the attaching plates between front support channel and rear support angles. Hold in place with clevis pins (Q) and hair pin cotters (S). See figure 4.
   C. Place hex bolts (A) through holes in side of rear support angles, attaching plates and front support channel. See figure 4.
   D. Secure hex bolts (A) with lock washers (B) and hex nuts (C). **Make only finger tight.** See figure 4.

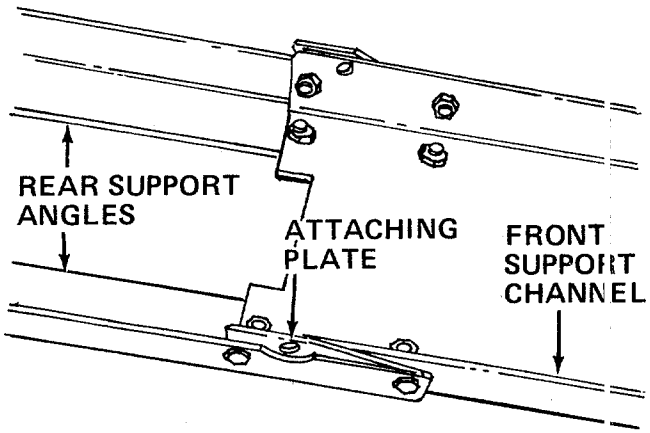


FIGURE 5

   E. Raise front support channel up and secure the bottom four holes with hex bolts (A), lock washers (B) and hex nuts (C). See figure 5.
   F. Tighten all eight bolts and nuts with 9/16" wrench and adjustable wrench. Remove clevis pins (Q) and hairpin cotters (S). These will be required later for assembly of snow throw to tractor.

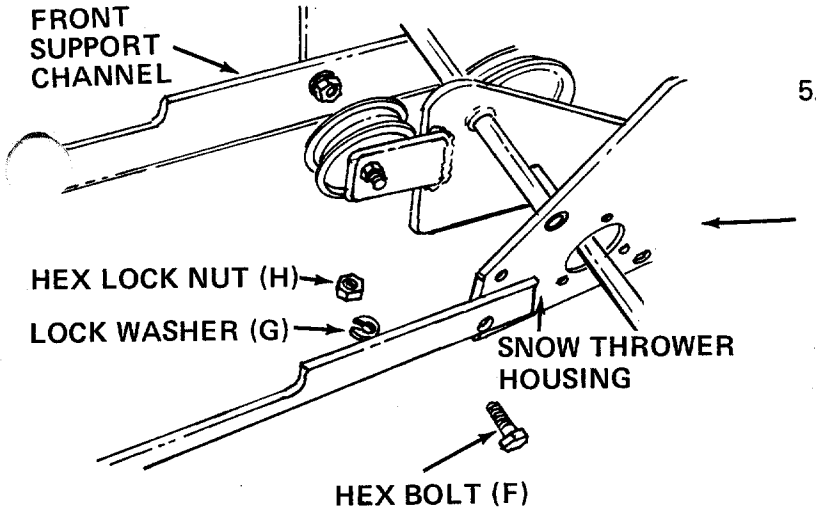


FIGURE 6

5. Assemble the preassembled front support channel to the snow thrower housing. Place the front support channel against weld plates on housing. Right hand side of front support channel is to the outside of the weld plate. Left hand side is to the inside of weld plate. See figure 6. An adjustable wrench and a 3/4 wrench are required. **Tighten securely.**

6. If the left front lift link on your tractor is an adjustable lift link, remove it and replace with the lift link provided with the snow thrower attachment. Keep the adjustable link in a safe place for use when the snow thrower attachment is removed.

7. Remove the hairpin cotters on tractor rear hitch rod. See figure 7.

8. Place the rear hanger brackets (W) over the rear hitch rod. See figure 8. Secure in place with hairpin cotters removed in step 6.

9. Secure rear hanger brackets to tractor frame with hex bolts (A), lock washers (B) and hex nuts (C). See figure 7. A 9/16" wrench and adjustable wrench are required.

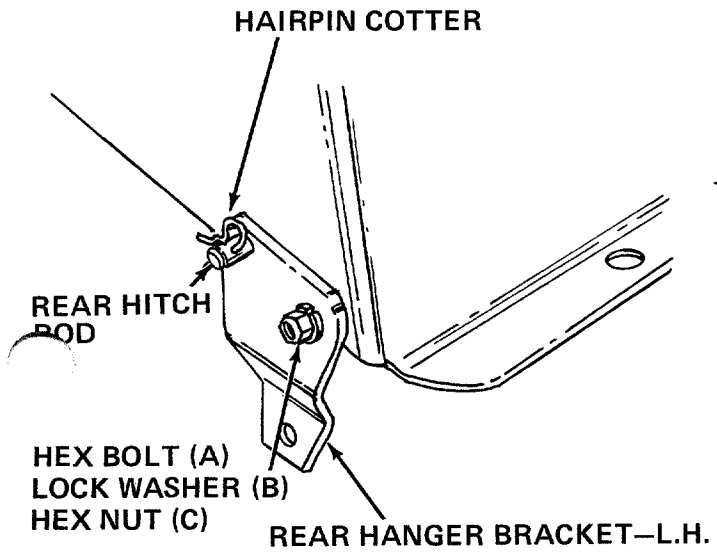


FIGURE 7

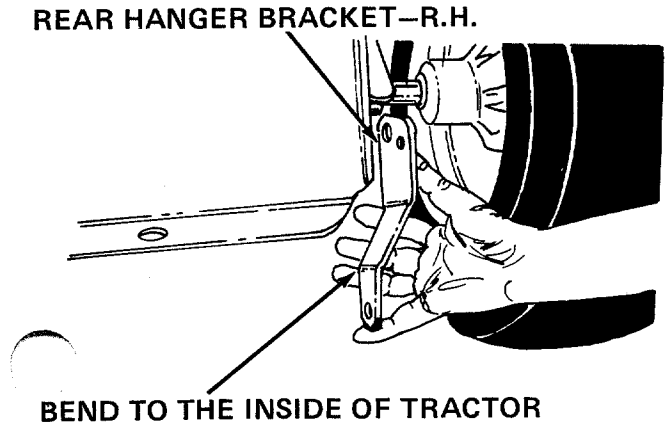


FIGURE 8

NOTE

Rear hanger brackets **must be** assembled with the bend to the inside **only** as shown in figure 8.

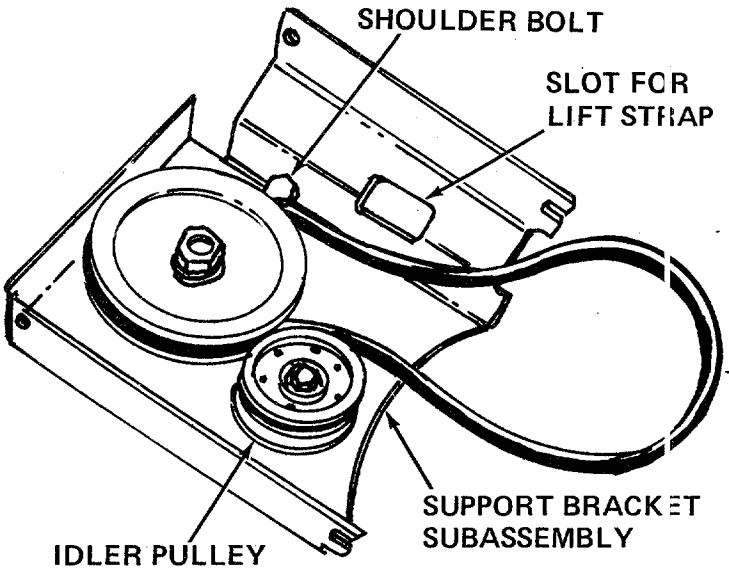


FIGURE 9

10. Lower the lift handle on the tractor to its lowest setting.

11. Figure 9 illustrates the supporting bracket subassembly. Make sure the belt is inside the shoulder bolt and idler as shown.

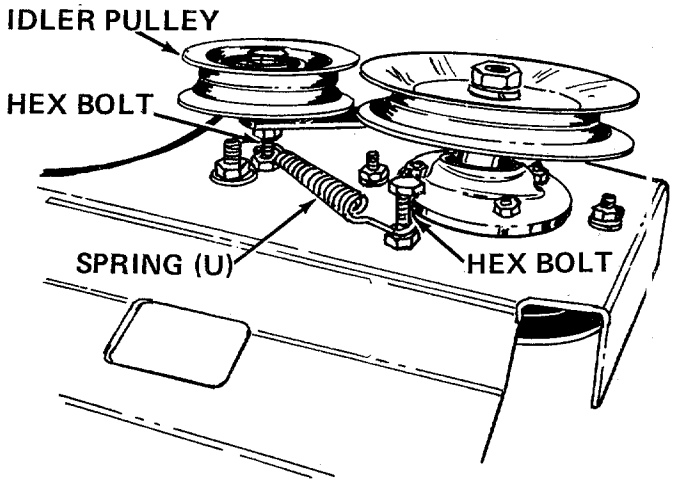


FIGURE 10

12. Turn the supporting bracket subassembly over. Attach one end of spring (U) to the hex bolt which secures the idler pulley to the bracket. Attach the other end of the spring to the hex bolt on supporting bracket subassembly. See figure 10.

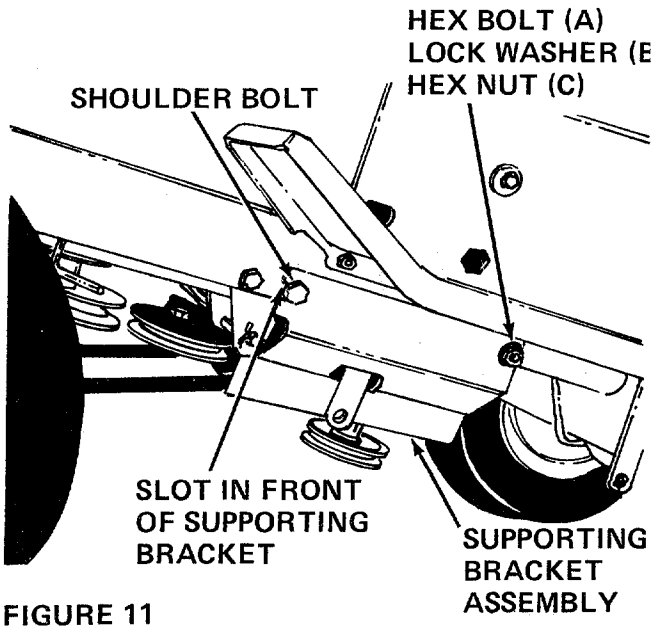


FIGURE 11

13. Place the supporting bracket subassembly under tractor, up over the lift handle straps. Make sure straps go down through the slots in the supporting bracket. See figure 10.

14. The front slots on supporting bracket go over the shoulder bolts on tractor frame. See figure 11.

15. Secure rear of supporting bracket to tractor frame with two hex bolts (A), lock washers (B) and hex nuts (C). See figure 11. A 9/16" wrench ar adjustable wrench are required.

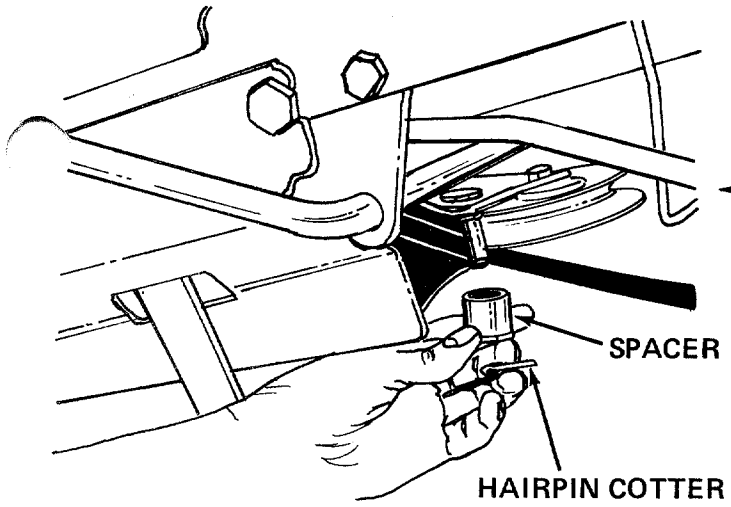


FIGURE 12

16. Remove the hairpin cotter and spacer from idler pulley on tractor. See figure 12.

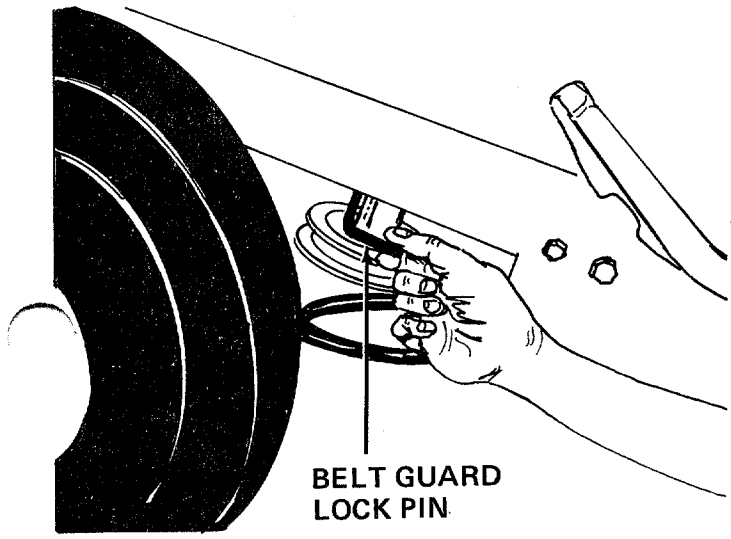


FIGURE 13

17. Remove the belt guard lock pin at engine pulley belt guard. See figure 13.

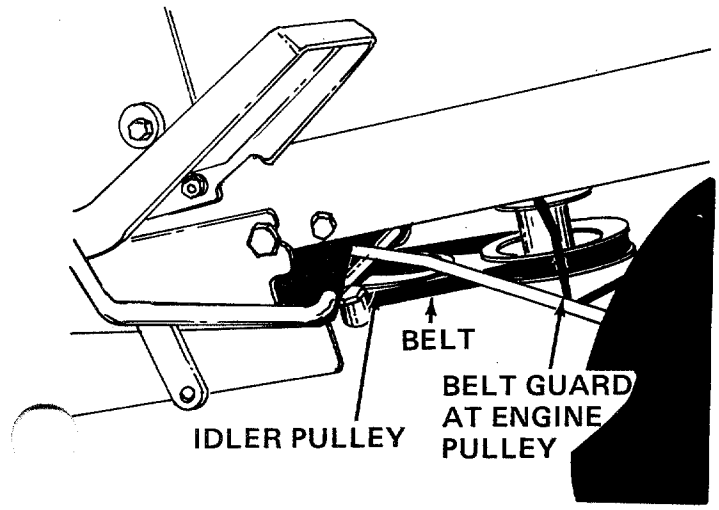


FIGURE 14

18. After removing the belt guard lock pin, swing the engine pulley belt guard out of the way. Assemble the belt from supporting bracket subassembly. The idler pulley on the tractor must be inside the belt. Replace the belt guard, belt guard lock pin and hairpin cotter with spacer. See figure 14.
19. Raise the lift handle lever on the tractor to the highest position.
20. Roll the tractor over the rear of the snow thrower.

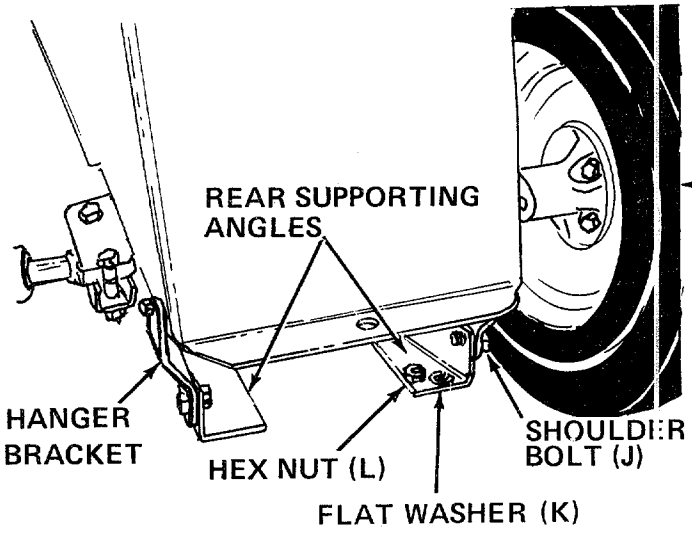


FIGURE 15

21. Raise the rear supporting angle up, and line up holes with hanger brackets on tractor. Secure in place with shoulder bolts (J), flat washers (K) and hex nuts (L). See figure 15.

NOTE

Rear supporting angles **must go** to the inside of the hanger brackets.

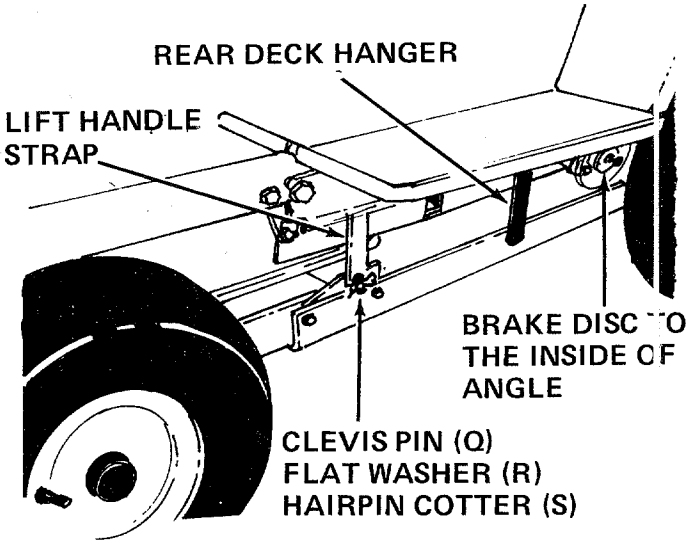


FIGURE 16

22. Using a piece of wire, hold the rear deck hanger out of the way.
23. Lower the lift handle lever on tractor to the lowest setting. You may have to pull straps down by hand.
24. Secure the lift handle straps to the attaching plates with two clevis pins (Q), flat washers (R) and hairpin cotters (S) as shown in figure 16.

NOTE

On four speed tractor models which have the brake disc hanging down, rear supporting angle **must be** on the outside of disc. See figure 16.

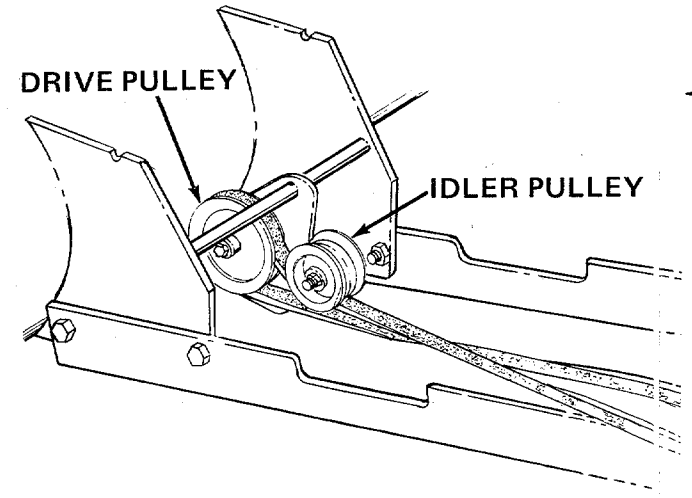


FIGURE 17

25. Place the belt around the drive pulley on the snow thrower housing. Route it under the idler pulley. See figure 17.
26. Twist belt 90° as shown in figure 17. Feed belt onto support bracket pulley.

NOTE

Belt must be assembled as shown in figure 17. Top of belt goes over drive pulley and under idler pulley then twist belt to the left. The bottom of the belt goes to the right. If the belt is assembled incorrectly, the spirals will run in reverse.

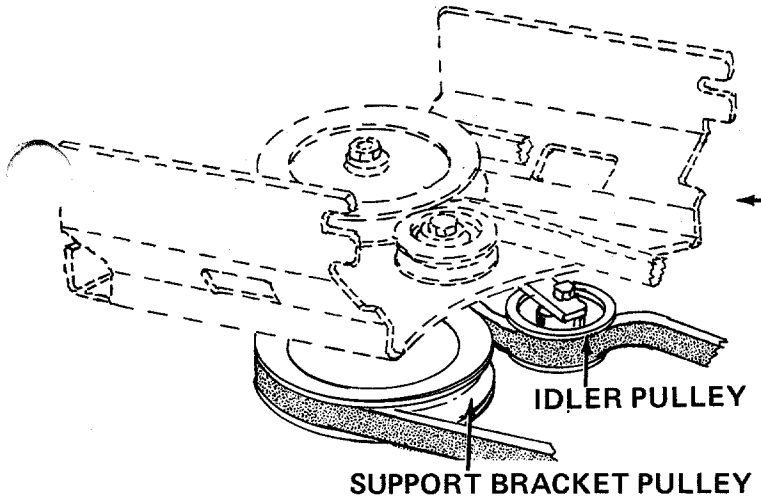


FIGURE 18

27. Move spring loaded idler pulley to the outside of the belt. See figure 18.

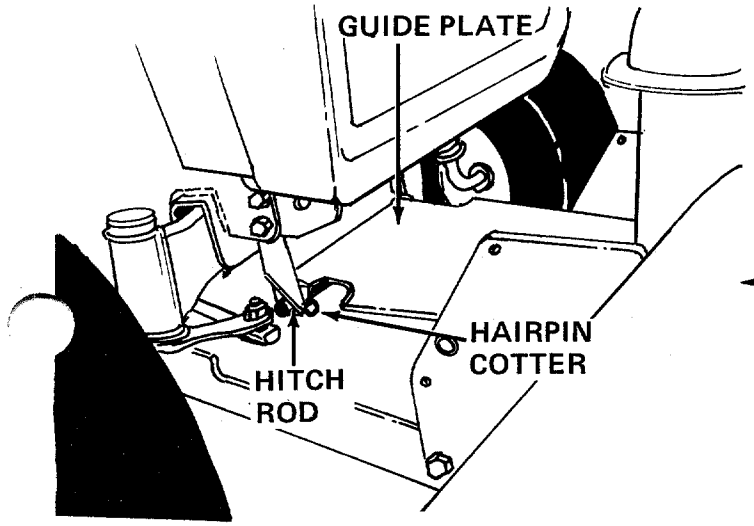


FIGURE 19

28. Remove the front hitch rod on the tractor by removing two hairpin cotters.

29. Assemble the guide plate to the front of the tractor, using the **upper** holes in guide plate. Hold plate in place and secure with hitch rod and hairpin cotters removed in step 28. See figure 19.

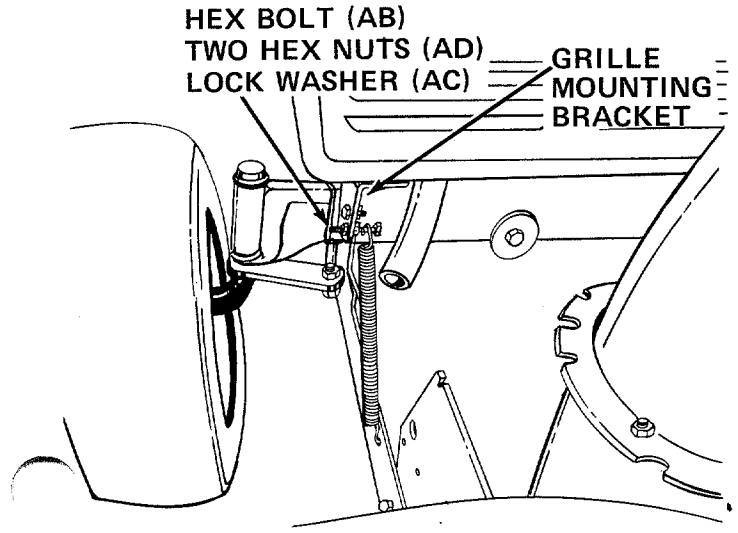
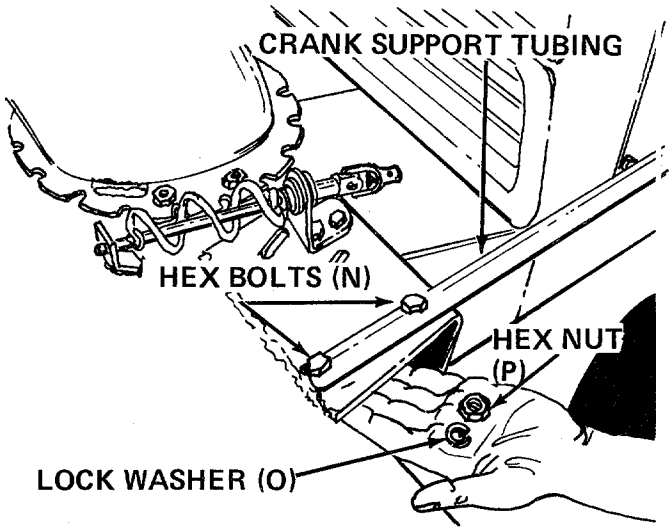


FIGURE 20

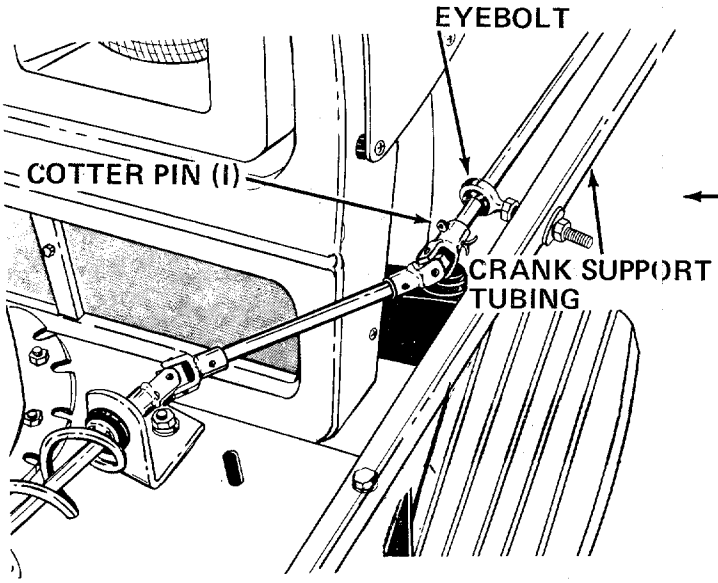
30. Remove the bottom self-tapping screw on one side of the grille mounting bracket. Thread one hex nut (AD) on hex bolt (AB). Attach to bottom hole of grille mounting bracket as shown in figure 20 (head of bolt is toward the center of the tractor). Secure with lock washer (AC) and hex nut (AD). Repeat on other side of tractor.

31. Raise the lift handle on the tractor to the highest position. Assemble the springs (T) on each side of front tractor frame. Using a pair of pliers, pull the bottom hook down and place in hole on channel. See figure 20.



32. Assemble the crank support tubing to the snow thrower housing, using the holes in the housing as shown in figure 22. Secure in place with two hex bolts (N), lock washers (O) and hex nuts (P). See figure 21. An adjustable wrench and 1/2" wrench are required.

FIGURE 21



33. Slip the end of chute crank rod through the grommet in eyebolt and into the universal joint. Secure with cotter pin (I). See figure 22.
34. Adjust skid shoes to desired position and tighten hex nuts. See adjustment section.
35. Check tire pressure. It may be necessary to put more air into the front tires due to the weight of the snow thrower. However, never overinflate tires beyond maximum recommended pressure on tire or in tractor owner's guide.

FIGURE 22

CONTROLS

The thrower controls are conveniently located at the operator's position on the rider.

LIFT LEVER

The lift lever which is used to raise and lower snow thrower is located on the right hand side of rider. To raise snow thrower, pull back on lift lever until it reaches over center stop. To lower snow thrower, push lift lever forward slowly until snow thrower reaches ground level.

DISCHARGE CHUTE CONTROL CRANK

The discharge chute control crank is located on the left hand side of the snow thrower. The chute crank controls the direction in which snow is thrown. The discharge radius is 180° degrees. Turn crank to the right to direct snow to the right hand side. Turn to the left to direct snow to left hand side.

P.T.O. LEVER

The P.T.O. lever is located on the right hand side of the rider. The spirals are engaged by lifting the P.T.O. lever to the "Engaged" position. Lower the P.T.O. lever to the "Disengaged" position to stop the snow throwing action.

OPERATION

The snow thrower is capable of handling heavy snow conditions. If given the opportunity to function within reasonable requirements, it should give many years of service. Become fully familiar with all aspects of both the rider and snow thrower prior to its usage. **Do Not** remove any guards or covers while operating rider and thrower.

BEFORE PLACING SNOW THROWER INTO OPERATION

1. Make certain to change the oil in the tractor engine to winter weight oil (SAE 5W-20 or 5W-30).
2. Make certain **all** nuts and bolts are tightened securely. Be sure that all parts are properly assembled.
3. Test **all** controls for smooth operation.
   A. Discharge chute control crank
   B. Lift lever

NOTE

Start engine and engage P.T.O. lever. If spirals run in reverse, belt is assembled incorrectly. Refer to step numbers 25, 26 and 27 under assembly instructions.

4. Check the rider and thrower to make certain both are in good operating condition.
5. Fill gas tank out-of-doors. Avoid spilling gasoline over engine. **Do not** fill tank while engine is running. Wipe up any spilled gas.

OPERATING SPEED

Start rider engine and run at full throttle. The spiral speed is directly related to engine speed. For maximum snow removal and discharge, maintain high engine R.P.M. (full throttle). The rider's forward speed is controlled by selecting one of the forward speeds. It is advisable to operate the rider at a slow ground speed (1st gear) for safe and efficient snow removal. Use the lift lever to lower the snow thrower to the ground. Engage the spirals using the P.T.O. lever.

SNOW CONDITIONS

Snow removal conditions vary greatly from light fluffy snowfall to the wet heavy snow. Therefore, operating instructions must be flexible to fit conditions encountered. The operator must adapt the rider and snow thrower to depth of snow, wind direction, temperature, and surface conditions.

DEEP OR DRIFTED SNOW

In deep, drifted, or banked snow, it will be necessary to use full throttle and first speed. Drive the spiral into the snow, disengage clutch and allow spiral to clear the snow. Repeat this method until a path is cleared. On the second pass, overlap the first enough to allow the spiral to handle the snow without repeated clutching and declutching of the rider.

In extremely deep snow, raise thrower from the ground and drive rider ahead in the deep snow to remove top layers first. **Do not** drive rider into snow bank where snow has not been removed to ground level. Disengage rider clutch and allow thrower to clear the snow. Reverse rider and lower thrower to the ground. Drive rider ahead and repeat process to remove balance of snow. Working with repeated passes into and out of drifts will eventually move even the deepest of snow piles.

CAUTION

If snow thrower becomes plugged with snow or jammed due to hitting a foreign object, disengage snow thrower immediately and stop rider engine. Clear snow from chute if plugged before resuming operation.

NOTE

If spiral is jammed or bent from hitting a foreign object, stop rider engine. Remove spark plug wire from spark plug and then remove foreign object from spiral. If spiral damage is noted, repair prior to continuing operation. Then replace spark plug wire and resume operation.

OPERATING TIPS

1. Whenever possible, discharge snow down wind.
2. **Do not** attempt to remove ice or hard packed frozen snow.
3. Always overlap each pass slightly to assure complete snow removal.
4. A frozen or stuck spiral or chute must be broken loose or thawed with care. When attempting to loosen frozen or jammed spiral, shut off rider engine and remove spark plug wire. Never attempt to clear snow thrower at any time with rider engine running.

NOTE

When snow thrower and rider are not in use, lower snow thrower to the ground to prevent excess weight on front tires.

USE OF TIRE CHAINS

Tire chains should always be used when extra tract on is needed. They add maneuverability in handling snow removal jobs.

ADJUSTMENTS

WARNING

When making any adjustments, turn rider engine off.

SKID SHOE ADJUSTMENT

The skid shoes are mounted on each side of spiral housing. These regulate the distance the shave plate is raised above the plowing surface. When removing snow from a gravel driveway or an uneven surface, it is advisable to keep shave plate as high above the surface as possible to prevent possible damage to spiral.

On blacktop or concrete surface, keep shave plate as close to the surface as possible. Skid shoes can be adjusted so that shave plate will rest directly on the surface. Turning skid shoes around or inverting them will allow even wear on skid shoes.

Raise snow thrower off the ground and place block at each end of shave plate. Loosen 4 hex nuts securing skid shoes to spiral housing (2 nuts on each side). Move skid shoes up or down to desired position and tighten nuts securely. Adjust both skid shoes to the same height to keep spiral level. See figure 23.

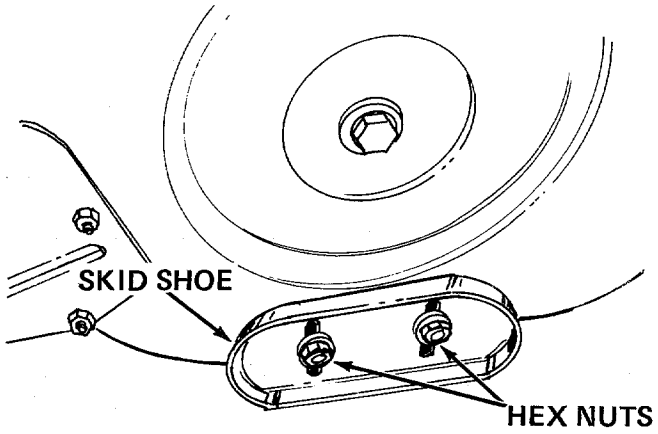


FIGURE 23

CHUTE DEFLECTOR ADJUSTMENT

The upper chute deflector mounting on the top of the chute determines the distance snow is thrown. Moving top of deflector down decreases distance of throw and raising deflector increases distance of throw. Operator must get off rider to make this adjustment. Disengage spirals and turn engine off before making this adjustment.

To adjust, loosen hand knob on the side of chute deflector and pivot to desired position. Retighten hand knob. See figure 24.

CHUTE DEFLECTOR

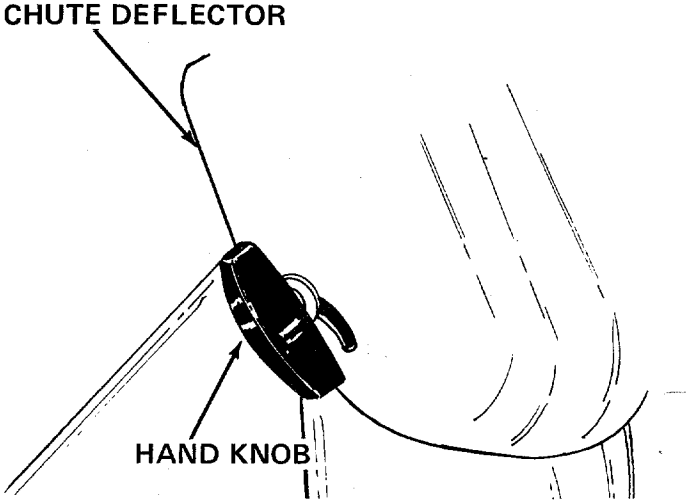


FIGURE 24

SPIRAL DRIVE CHAIN ADJUSTMENT

Excessive slack in spiral drive chain due to normal chain stretch can be removed by adjusting spiral housing nuts.

To adjust spiral chain:

1. Disengage snow thrower and loosen the adjusting nut 2 or 3 complete turns. See figure 25.
2. Move adjusting nut down as needed.

NOTE

Do not overtighten chain. A correctly adjusted chain will have a slight amount of slack. An overtightened chain will result in early failure of chain.

3. Tighten adjusting nut to secure chain adjustment. Check chain clearance. It must clear chain guard assembly. Test chain and repeat adjustment if necessary until all excess slack is removed.

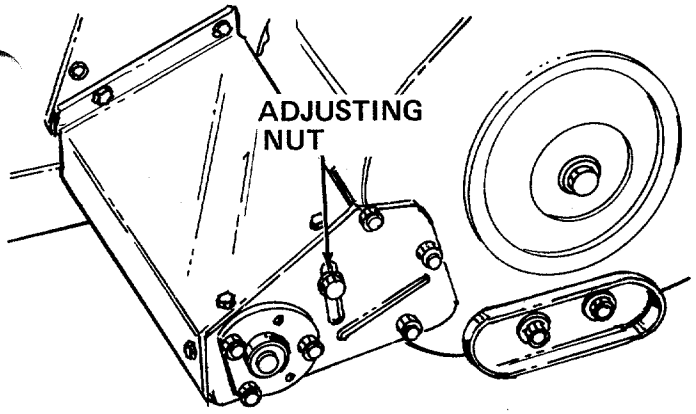


FIGURE 25

LUBRICATION

1. Spiral drive chain: Lubricate chain every 40 hours with No. 30 oil. It is important that oil reaches inside each roller. Wipe off excess oil from chain. See figure 26.

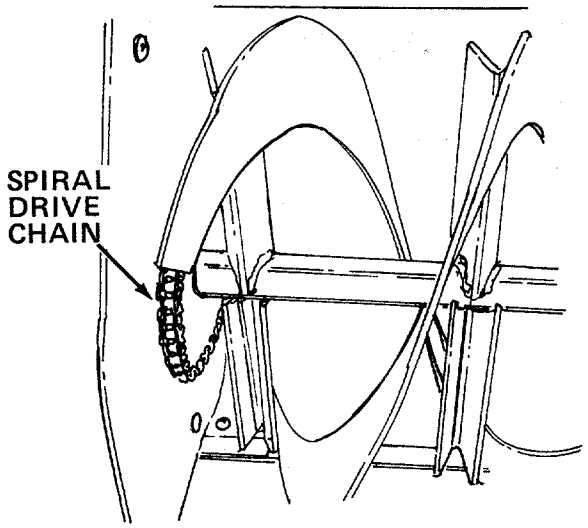


FIGURE 26

2. Pivot and friction points: To maintain smooth and free operation, apply a few drops of No. 30 oil as required to all pivot and friction points.

The spiral and idler pulley bearings are self-lubricating. However, periodic lubrication with No. 30 oil will lengthen service life.

MAINTENANCE

SHAVE PLATE AND SKID SHOES

The shave plate and skid shoes on the bottom of the snow thrower are subject to wear. They should be checked periodically and replaced when necessary. Skid shoes are reversible for longer life. The skid shoes may also be inverted to extend their life even further.

Replace shave plate and skid shoes before wear is excessive. Failure to do so will result in damage to the spiral housing.

OFF-SEASON STORAGE

At the end of the snow season, the following steps are recommended:

1. Remove snow thrower assembly from rider.
2. Wash off any salt deposit which may have dried on the thrower and housing. Paint or cover exposed metal with a light coat of oil.
3. Follow lubrication recommendations. Thrower drive chain must be oiled thoroughly to prevent rust from forming. The preferred method is to remove the chain and soak in oil for several hours before reinstalling.
4. Store thrower in a dry place.

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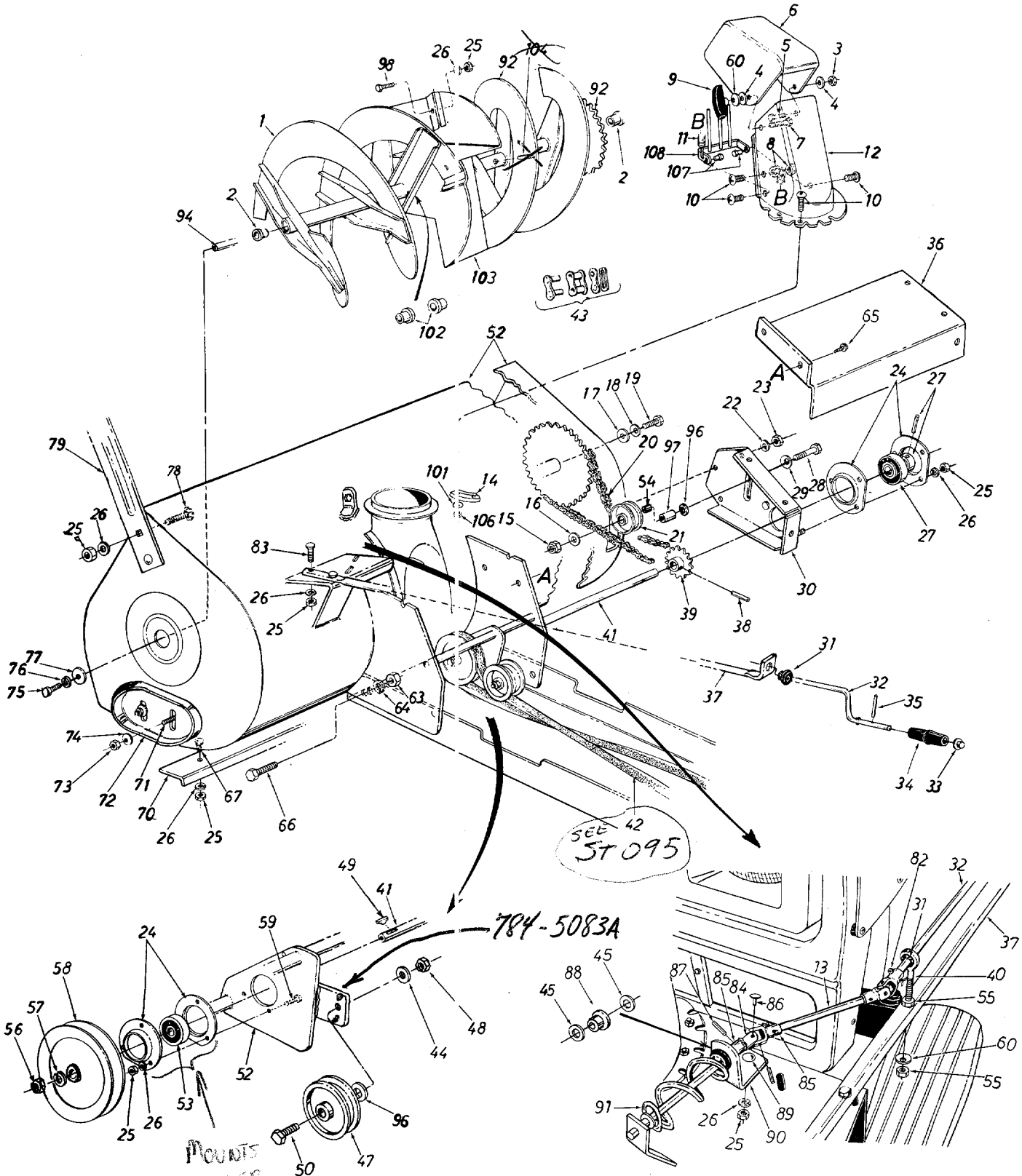

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PARTS LIST FOR MODEL 930 40" SNOW THROWER ATTACHMENT

Ref. No.	PART NO.	DESCRIPTION	New Part
1	784-5221	Spiral Ass'y. (L.H.)	
2	741-0227	Flange Bearing	
3	712-0158	Hex Cent. L.-Nut 5/16-18 Thd.	
4	736-0231	Fl.-Wash. .344" I.D.	
5	710-0323	Truss Mach. Scr. 5/16-18 x .75" Lg.	
6	731-0846B	Upper Chute	N
7	710-0276	Carriage Bolt 5/16-18 x 1.0" Lg.*	
8	712-0291	Hex L-Nut 1/4-20 Thd.	
9	09966	Hand Knob	
10	710-0255	Truss Mach. Scr. 1/4-20 x .75" Lg.	
11	732-0118	Ext. Spring	
12	731-0843B	Lower Chute	N
13	747-0523A	Chute Crank Extension Rod	N
14	731-0851	Chute Flange Keeper	
15	712-0375	L.-Nut 3/8-16 Thd.	
16	736-0300	Fl.-Wash.	
17	736-0179	Fl.-Wash.	
18	736-0253	Belleville Wash.	
19	710-0493	Hex Bolt 1/2-13 x 1.00" Lg.*	
20	713-0189	#420 Chain 1/2" Pitch x 77 Links	
21	756-0358A	Plastic Idler 2.00" O.D.	N
22	736-0329	L.-Wash. 1/4" I.D.*	
23	712-0287	Hex Nut 1/4-20 Thd.*	
24	741-0311	Bearing Housing	
25	712-0267	Hex Nut 5/16-18 Thd.*	
26	736-0119	L.-Wash. 5/16" I.D.*	
27	741-0310	Self-Aligning Bearing	
28	710-0347	Hex Bolt 3/8-16 x 1.75" Lg.*	
29	736-0105	Belleville Wash. 3/8" I.D.	
30	05721A	Chain Guard Ass'y.	N
31	741-0475	Nylon Bushing	
32	747-0438	Chute Crank .375 Dia. x 34.5" Lg.	
33	726-0100	Push Nut 3/8" Rod	
34	720-0201A	Knob (Black)	N
35	715-0138	Roll Pin	
36	784-5092A	Drive Shaft Cover	N
37	749-0675	Crank Support Tubing	
38	715-0118	Spring Pin Spiral 5/16" Dia. x 1.75" Lg.	
39	713-0188	14 Teeth Sprocket Ass'y.	
40	747-0481A	Eyebolt 5/16-18 x 3.0" Lg.	N
41	784-5078	Drive Shaft	
42	754-0291A	"V" Belt	
43	713-0154	Master Link for #420 Chain	
44	736-0169	L.-Wash. 3/8" I.D.*	
45	736-0140	Fl.-Wash. .385 I.D. x .62" O.D.	
47	756-0417	Fl.-Idler with Flanges	
48	712-0342	Hex Jam L.-Nut 3/8-16 Thd.	
49	714-0388	#61 Hi-Pro Key 3/16 x 5/8" Dia.	
50	710-0347	Hex Bolt 3/8-16 x 1.75" Lg.*	
52	784-5081A	Spiral Housing Ass'y.	N
53	741-0309	Self-Aligning Bearing	
54	741-0322	Sleeve Bearing .50" I.D.	
55	712-0267	Hex Nut 5/16-18 Thd.*	
56	712-0301	Hex Nut 3/4-10 Thd.	
57	736-0367	L.-Wash. 3/4" I.D.	
58	756-0456	"V"-Pulley .750" I.D. x 6.00" O.D.	
59	710-0198	Hex Sems Bolt 5/16-18 x .75" Lg.*	
60	736-0242	Bell-Wash. .345" I.D. x .88" O.D.	
63	712-0206	Hex Nut 1/2-13 Thd.*	
64	736-0921	L.-Wash. 1/2" I.D.*	
65	710-0599	Hex Wash. Hd. Tap Scr. 1/4-20 x .50" Lg.	
66	710-0490	Hex Bolt 1/2-13 x 2.75" Lg.*	
67	710-0451	Carriage Bolt 5/16-18 x .75"*	
70	05723	Shave Plate	
71	710-0790	Carriage Bolt 3/8-16 x .62" Lg.*	
72	784-5038A	Skid Shoe	N
73	712-0342	Hex Jam Nut 3/8-16 Thd.	
74	736-0105	Belleville Wash. 3/8" I.D.	
75	710-0493	Hex Bolt 1/2-13 x 1.00" Lg.*	
76	736-0253	Belleville Wash. 1/2" I.D.	
77	736-0179	Fl.-Wash.	
78	710-0260	Carriage Bolt 5/16-18 x .62" Lg.*	
79	05139A	Drift Cutter	N
82	714-0111	Cotter Pin	
83	710-0442	Hex Bolt 5/16-18 x 1.50" Lg.*	
84	711-0584	Joint Block	
85	05066	Joint Bracket Ass'y.	
86	728-0147	Oval Head Rivet	
87	715-0129	Spring Pin Roll 1/8" Dia. x .75" Lg.*	
88	741-0475	Nylon Bushing	
89	710-0451	Carriage Bolt 5/16-18 x .75" Lg.	
90	784-5085A	Chute Crank Bracket	N
91	784-5084A	Chute Crank Ass'y.	N
92	784-5222	Spiral Ass'y. (R.H.)	
94	05737	Spiral Axle	
96	736-0247	Flat Washer	
97	750-0252	Idler Spacer	
98	710-0451	Carriage Bolt 5/16-18 x .75" Lg.	
101	736-0142	Fl.-Wash. 1/4" I.D.	
102	741-0227	Plastic Bushing	
103	784-5216	Rotor Paddle Ass'y.	
104	715-0118	Spring Pin Spir. 5/16" Dia. x 1.75" Lg.	NOT USED
106	712-0107	Hex L.-Nut 1/4-20 Thd.	
107	738-0561	Shld. Nut 1/4-20 Thd.	
108	784-5192	Chute Guard Ass'y.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

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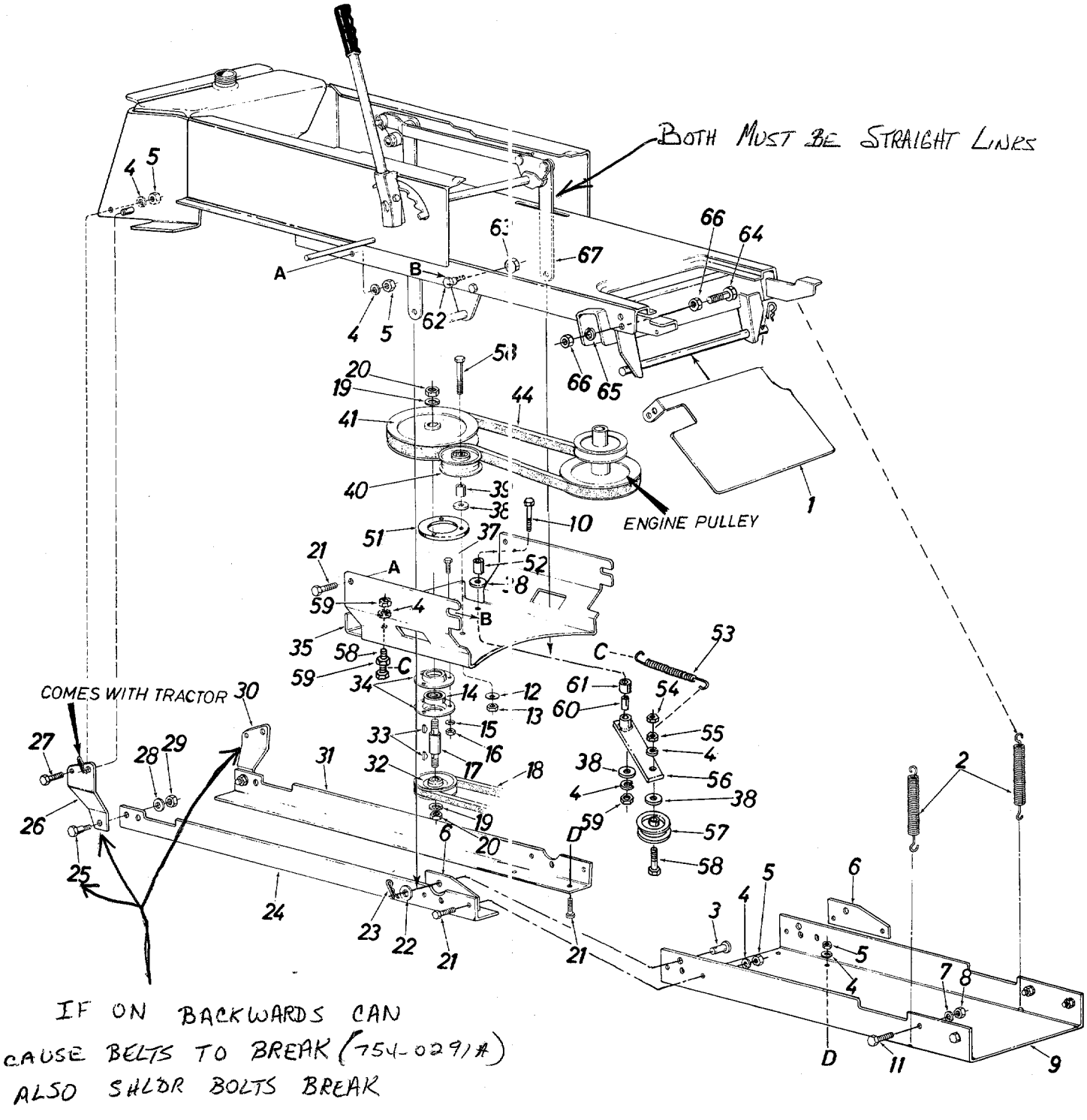

Model 930 and 19930

PARTS LIST FOR MODEL 930 40" SNOW THROWER ATTACHMENT

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	784-5091	Guide Bracket	
2	732-0233	Helper Spring	
3	711-0332	Clevis Pin	
4	736-0169	L.-Wash. 3/8" I.D.*	
5	712-0241	Hex L.-Nut 3/8-24 Thd.	
6	05714	Attaching Plate	
7	736-0921	L.-Wash. 1/2" I.D.*	
8	712-0239	Hex L.-Nut 1/2-20 Thd.	
9	05719	Front Support Channel	
10	710-0771	Hex Bolt 3/8-16 x 3.75" Lg.	
11	710-0504	Hex Bolt 1/2-20 x 1.25" Lg.*	
12	736-0169	L-Wash. 3/8" I.D.	
13	712-0342	Hex Jam Nut 3/8-16 Thd.	
14	741-0919	Ball Bearing (2 Req'd.)	
15	736-0119	L.-Wash. 5/16" I.D.*	
16	712-0267	Hex nut 5/16-18 Thd.*	
17	738-0246	Spindle	
18	754-0291A	"V"-Belt 754-0294	
19	736-0158	L.-Wash. 5/8" I.D.*	
20	712-0242	Hex Jam Nut 5/8-11 Thd.	
21	710-0152	Hex Bolt 3/8-24 x 1.00" Lg.*	
22	736-0192	Flat Washer	
23	714-0101	Internal Cotter Pin	
24	05718	Rear Support Angle - R.H.	
25	738-0163	Shld. Bolt .623" Dia. x .258" Lg.	
26	05716	Rear Hanger Brkt. - R.H.	
27	710-0152	Hex Bolt 3/8-24 x 1.0" Lg.*	
28	736-0319	Fl.-Wash. 44" I.D. x 1.38" O.D. x .130	
29	712-0290	Hex L.-Nut 7/16-24 Thd.	
30	05715	Rear Hanger Brkt. - L.H.	
31	05717	Rear Support Angle - L.H.	
32	756-0457	Lower Drive Pulley 5/8 x 5.56	
33	714-0388	#6 Hi-Pro Key 3/16 x 5/8" Dia.	
34	08253	Bearing Housing	
35	05713	Supporting Bracket	
37	710-0322	Hex Sems Bolt 5/16-18 x 1.00" Lg.*	
38	736-0258	Fl.-Wash. .38" I.D. x 1.00" O.D. x .135	
39	748-0193	Spacer .38" I.D. x .62" O.D.	
40	756-0405	Fl.-Idler Pulley	
41	756-0216	Upper Drive Pulley	
44	754-0206	"V"-Belt	
51	13778	Reinforcement Plate	
52	750-0511	Spacer .37" I.D. x .562" O.D. x 1.50" Lg.	
53	732-0470A	Extension Spring .54" O.D. x 4.75" Lg.	N
54	712-0266	Hex Cent. L.-Nut 3/8-16 Thd.	
55	712-0342	Hex Jam Nut 3/8-16 Thd.	
56	703-1292	Idler Arm Ass'y.	
57	756-0417	Idler Pulley	
58	710-0756	Hex Bolt 3/8-16 x 2.25" Lg.	
59	712-0342	Hex Jam Nut 3/8-16 Thd.	
60	750-0252	Spacer .377" I.D. x .60" O.D. x .830" Lg.	
61	748-0193	Spacer .380" I.D. x .630" O.D. x 565" Lg.	
62	738-0143	Shoulder Bolt .498 Dia. x .340	
63	712-0375	Hex Cent. L.-Nut 3/8-16 Thd.	
64	710-0698	Hex Bolt 1/4-28 x 1.50" Lg.	
65	736-0329	L.-Wash. 1/4" I.D.	
66	712-0138	Hex Nut 1/4-28 Thd.	
67	14399	Lift Link	