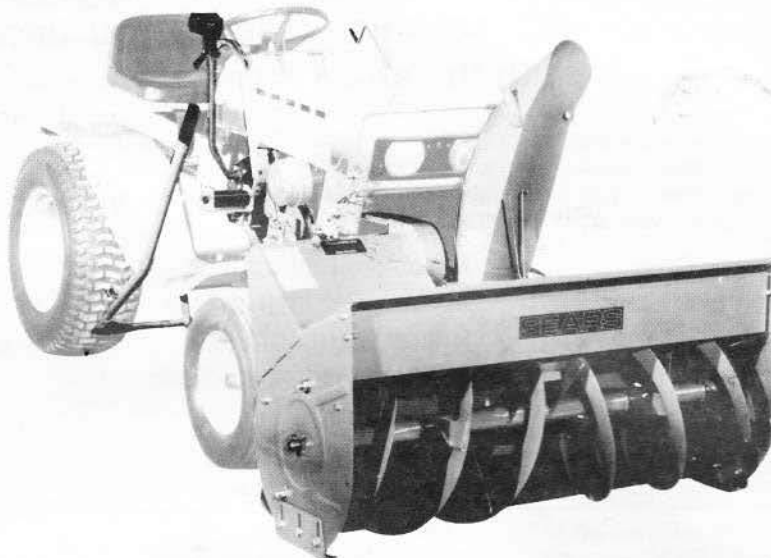


Sears
owners
manual

MODEL NO.
180.260250

CAUTION:
Read Rules for
Safe Operation
and Instructions
Carefully!



11-28-82

42" SNOW THROWER ATTACHMENT

- **ASSEMBLY**
- **ADJUSTMENT**
- **OPERATING**
- **MAINTAINENCE**
- **PARTS LISTING**

Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A.

ATTENTION!! ASSEMBLY TIME

The initial time required to assemble and attach this Snow Thrower Attachment to your tractor will consume approximately one and one half (1-1/2) hours. Future assembly times will be much less as you become familiar with the attachment.

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Assembly Instructions	4-11
Adjustment Instructions	12-13
Operating Instructions	14-18
Maintenance Instructions	19
Parts Listing	20-23



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

FULL ONE YEAR WARRANTY

For one year from the date of purchase, Sears will repair any defect in material or workmanship in this tractor attachment at no charge.

If the tractor attachment is used for commercial or rental purposes, this warranty applies only thirty days from the date of purchase.

Warranty service is available at your home, at no charge, by simply contacting the nearest Sears store or Service Center throughout the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sear, Roebuck and Co.
Sears Tower
BSC 41-3
Chicago, IL 60684

RULES FOR SAFE OPERATION

1. Know the controls and how to stop quickly, READ THE OWNER'S MANUAL.
2. Do not allow children to operate the vehicle. Do not allow adults to operate without proper instruction.
3. Do not carry passengers. Keep children and pets a safe distance away.
4. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
5. Keep your eyes and mind on your tractor, snow thrower and the area being cleaned. Don't let other interests distract you.
6. Do not attempt to operate your tractor or mower when not in the drivers seat.
7. Always get on or off your tractor from the operators left hand side.
8. Clear the work area of objects which might be picked up and thrown.
9. Disengage all attachment clutches and shift into neutral before attempting to start the engine.
10. Disengage power to attachments and stop the engine before leaving the operator's position.
11. Disengage all power to snow thrower, stop the engine and disconnect spark plug wire(s) from spark plug(s) before cleaning making an adjustment or repairs.
12. Disengage power to attachments when transporting or not in use. Drive slowly when front or rear mounted attachment is in transport position.
13. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off lowering the attachments, shifting into neutral, setting the parking brake, stopping the engine, and removing the key.
14. Do not stop or start suddenly when going uphill or downhill.
15. Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
16. Do not shift gears while going up or down slopes. Choose a gear low enough to negotiate the slope without stopping and shifting gears. To reduce speed, move throttle lever to slow.
17. Stay alert for holes in the terrain and other hidden hazards.
18. Do not drive too close to creeks, ditches and public highways.
19. Exercise special care when removing snow around fixed objects in order to prevent the auger from striking them. Never deliberately run tractor or mower into or over any foreign object.
20. Never shift gears until tractor comes to stop.
21. Never place hands or feet near the snow thrower auger, in the deflector (discharge chute) or near any moving parts while tractor or mower are running. Always keep clear of discharge chute.
22. Use care when pulling loads or using heavy equipment.
 - a. Use only approved drawbar hitch points.
 - b. Limit loads to those you can safely control.
 - c. Do not turn sharply. Use care when backing.
 - d. Use counterweights or wheel weights and tire chains when suggested in this owner's manual.
 - e. Never run snow thrower into heavy material at high speeds.
23. Watch out for traffic when crossing or near roadways.
24. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
25. Handle gasoline with care it is highly flammable.
 - a. Use approved gasoline containers.
 - b. Never remove the cap of the fuel tank or add gasoline to a running or hot engine, or fill the fuel tank indoors. Wipe up spilled gasoline.
 - c. Open doors if the engine is running in the garage exhaust fumes are dangerous. Do not run the engine indoors.
26. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. When using Three Point Hitch remove attachments from hitch before making any repairs on attachment or hitch.
27. Keep all nuts, bolts, and screws tight, all cotter pins and retainer springs in place to be sure the equipment is in safe working condition.
28. Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
29. To reduce fire hazard, keep the engine free of grass leaves or excessive grease.
30. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and damage should be repaired before restarting and operating the equipment.
31. Do not change the engine governor settings or over-speed the engine.
32. When using the vehicle with snow thrower, proceed as follows.
 - a. Remove snow only in daylight or in good artificial light.
 - b. Never make any adjustments while the engine is running if the operator must dismount to do so.
 - c. Shut the engine off when unclogging chute.

ASSEMBLY

UNPACKING INSTRUCTIONS

The Snow Thrower Attachment and all necessary parts and hardware are packed in one carton. Open the top of the carton, and remove small parts. Carefully cut the length of each corner of the carton and fold down the sides of the box. This provides a clean surface on which to mount the Snow Thrower.

NOTE: Terms left and right as used in manual refer to left and rights sides of Snow Thrower when seated on Tractor facing forward, see Figure 1.

TOOLS

With some tools you already own, plus a few inexpensive items that can be purchased at your Sears store, set-up and maintenance can be accomplished quickly and accurately.

TOOLS REQUIRED FOR ASSEMBLY

1. 5/16 Open End Wrench (1)
2. 3/8 Open End Wrench (1)
3. 1/2 Open End Wrench (2)
4. 9/16 Open End Wrench (2)
5. 15/16 Open End Wrench (2)
6. Flat Blade Screw Driver (1)
7. Pliers

REF. NO.	DESCRIPTION
1	Mount Bracket
4	Mount Rod
6A	Rear Lift Ass'y.
7	Lift Push Bar
9A	Lift Tube Ass'y.
33A	Chute Crank Support Bracket Ass'y.

REF. NO.	DESCRIPTION
36A	Chute Crank Rod Ass'y.
51A	Chute & Deflector Ass'y.
70A	Auger, Head & Lift Ass'y.
81	Pedal & Lock Bracket
82	Retaining Wire
83	Clutch Rod
84	Clutch Spring

REF. NO.	DESCRIPTION
97A	Clutch & Brake Ass'y.
101A	Clutch Disengagement Arm Ass'y.
108	V-Belt
P.B.	Parts Bag

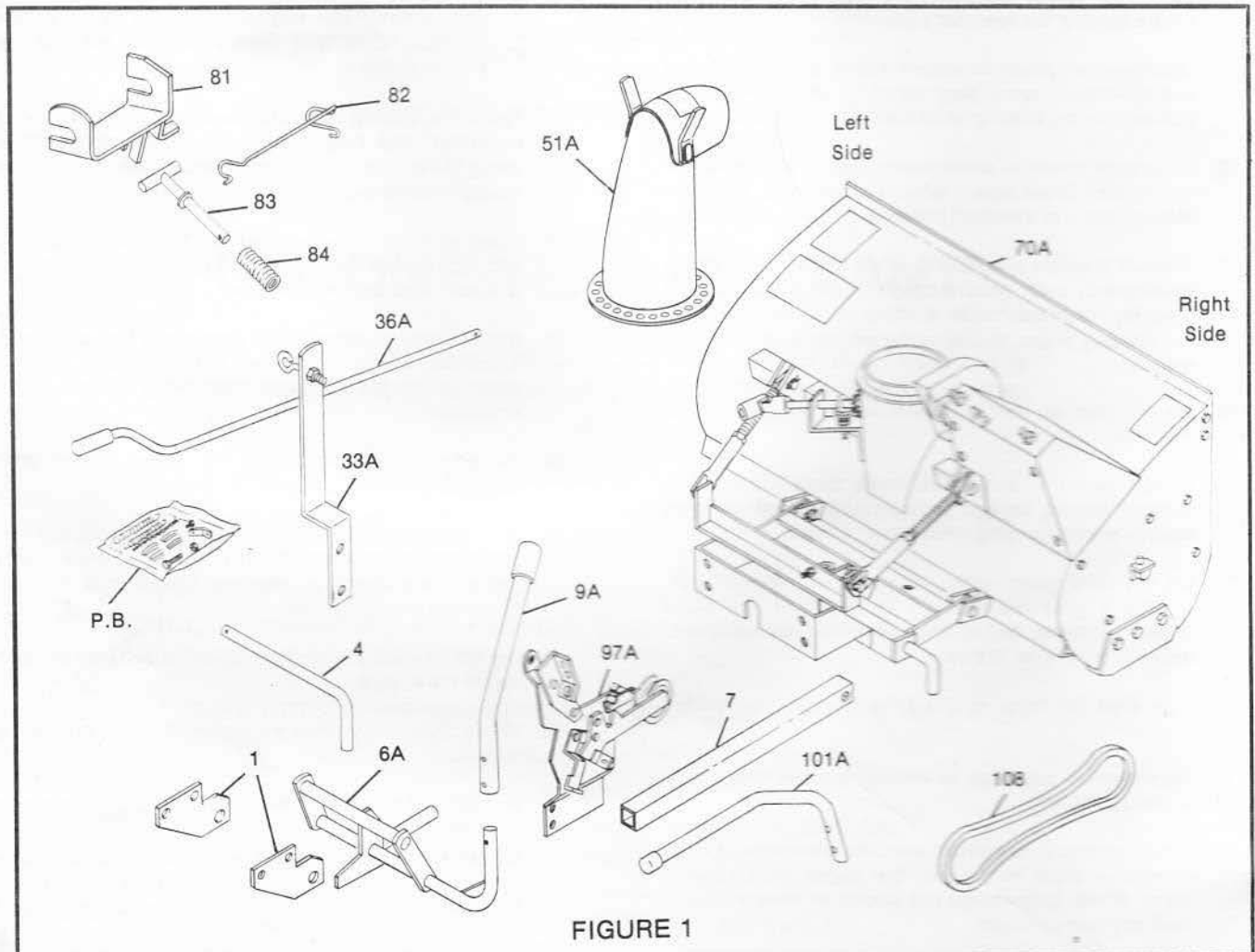


FIGURE 1

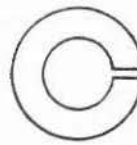
ASSEMBLY

PARTS BAG

STEP 1

Open Parts Bag and identify contents as shown on pages 5 and 6.

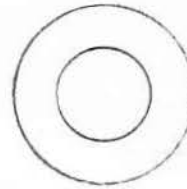
REF. NO.	PART NUMBER	QTY	DESCRIPTION
88	X-1036	1	7/16 Flat Washer
8	X-1048	4	3/4" Flat Washer
100	X-1182	3	1/4-20 x 1 1/4 Hex Head Cap Screw
12	X-1382	1	Clevis Pin
104	X-1439	1	3/8-16 x 4 1/2 Hex Head Cap Screw
2	X-1147	10	3/8-16 x 1 Hex Head Cap Screw
109	L-172	1	1/4-20 X 3/4 Hex Head Cap Screw
31	L-59	2	5/16-18 x 3/4 Hex Head Cap Screw
99	L-303	3	1/4-20 Hex Lock Nut
32	X-1107	4	5/16-18 Hex Lock Nut
3	X-1199	10	3/8-16 Hex Lock Nut
54	4-10900	4	Chute Ring Clamp
5	X-1229	6	Hair Pin
52	X-1242	8	#10-24 x 1 Hex Mach. Screw
53	L-242B	8	#10-24 Hex "Kep" Nut
80	L-298	3	Hair Pin
105	14-A1423	1	Belt Guide
106	4-10227	1	Spring
103	14-A1403	1	Spring-Brake
50	14-A1011	2	Pull Chain
79	14-A1109	2	Spring-Assist
112	X-1070	1	3/8 Split Lock Washer
115	X-1535	1	Flat Washer
107	14-A1410	1	Spring Return Bracket



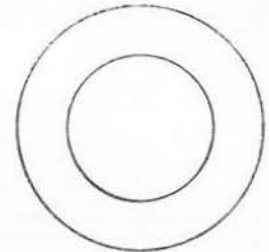
(112) X-1070
3/8 Split Lock Washer - 1



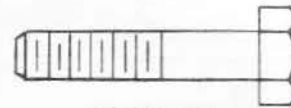
(115) X-1535
Flat Washer - 1



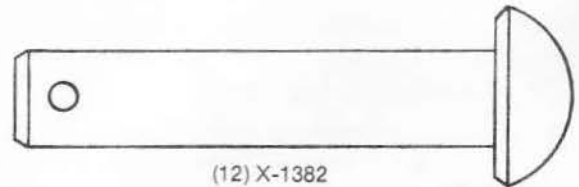
(88) X-1036
7/16 Flat Washer - 1



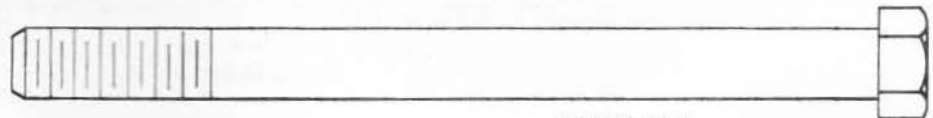
(8) X-1048
3/4 Flat Washer - 4



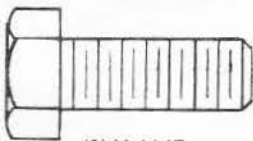
(100) X-1182
1/4 -20 x 1 1/4 Hex Head Cap Screw - 3



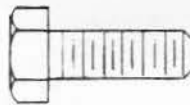
(12) X-1382
Clevis Pin - 1



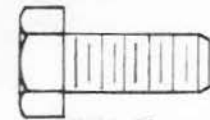
(104) X-1439
3/8 -16 x 4 1/2 Hex Head Cap Screw - 1



(2) X-1147
3/8 -16 x 1 Hex Head Cap Screw - 10



(109) L-172
1/4-20 X 3/4 Hex Head Cap Screw - 1



(31) L-59
5/16-18 x 3/4 Hex Head Cap Screw - 2



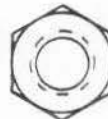
(99) L-303
1/4 -20 Hex Lock Nut - 3



(32) X-1107
5/16-18 Hex Lock Nut - 4



(3) X-1199
3/8 -16 Hex Lock Nut - 10

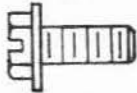


ASSEMBLY

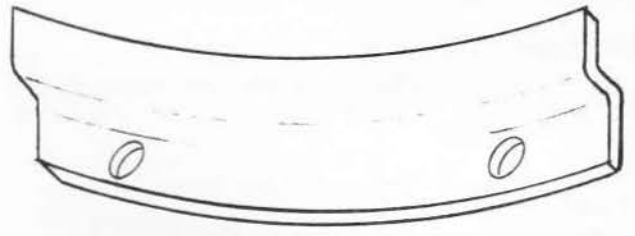
PARTS BAG (Cont.)



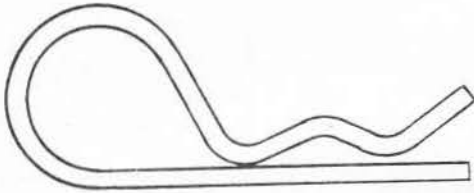
(53) L-242B
#10-24 Hex "Kep" Nut - 8



(52) X-1242
#10-24 x 1" Hex Mach. Screw - 8



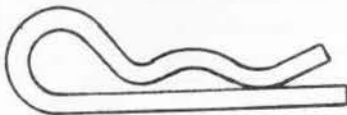
(54) A-10900
Chute Ring Clamp - 4



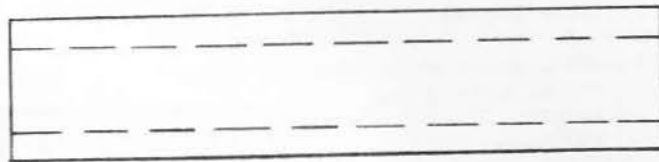
(5) X-1229
Hair Pin - 6



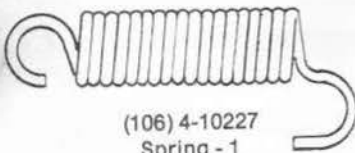
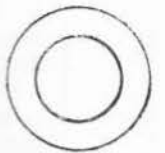
(107) 14-A1410
Spring Return Bracket - 1



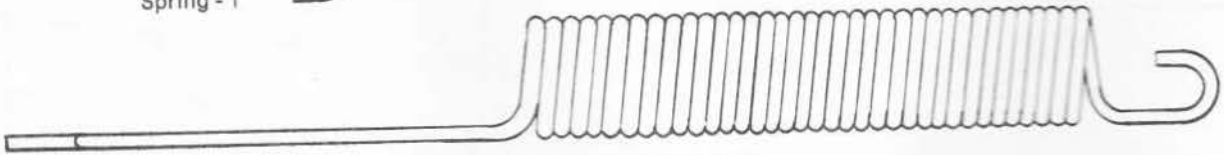
(80) L-298
Hair Pin - 3



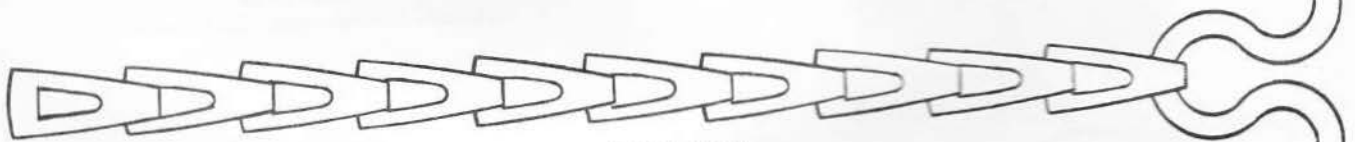
(105) 14-A1423
Belt Guide - 1



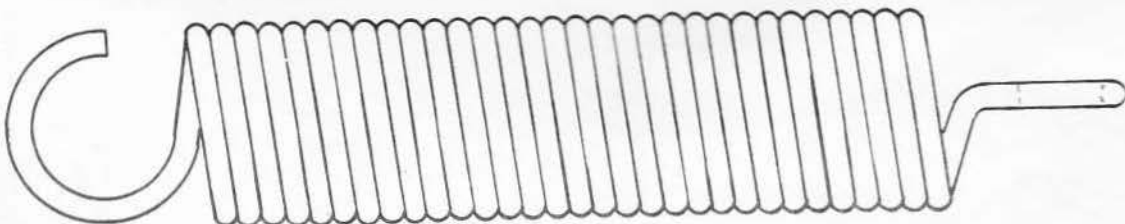
(106) 4-10227
Spring - 1



(103) 14-A1403
Spring-Brake - 1



(50) 14-A1011
Pull Chain - 2



(79) 14-A1109
Spring Assist - 2

ASSEMBLY



CAUTION

Before starting to assemble Snow Thrower to Tractor, remove spark plug wire from plug and key from ignition.

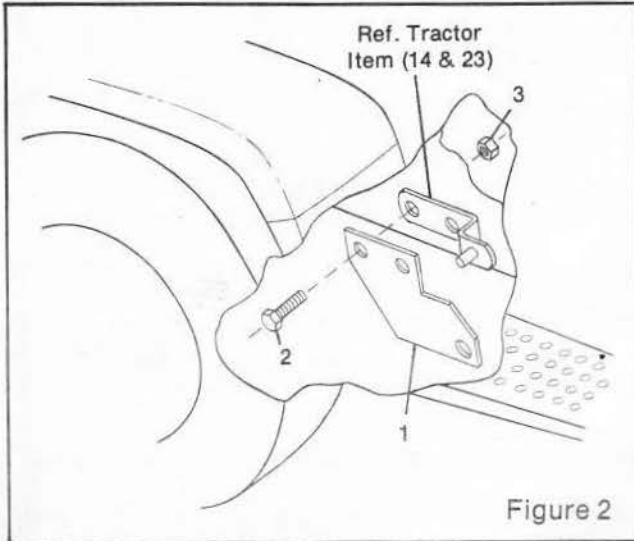


Figure 2

STEP 2 (Figure 2)

Before beginning to assemble the Snow Thrower Attachment, remove any other Attachments from the Tractor.

STEP 3 (Figure 2)

- A.) Remove existing Tractor bolts, lock washers & nuts item 46, 47, & 48, See Tractor Owners Manual Pages 12 & 13.
- B.) Assemble rear mount bracket and Tractor items (14 & 23) to Tractor, as shown in Figure 2, using four hex bolts, (2), four hex lock nuts (3), and tighten securely.

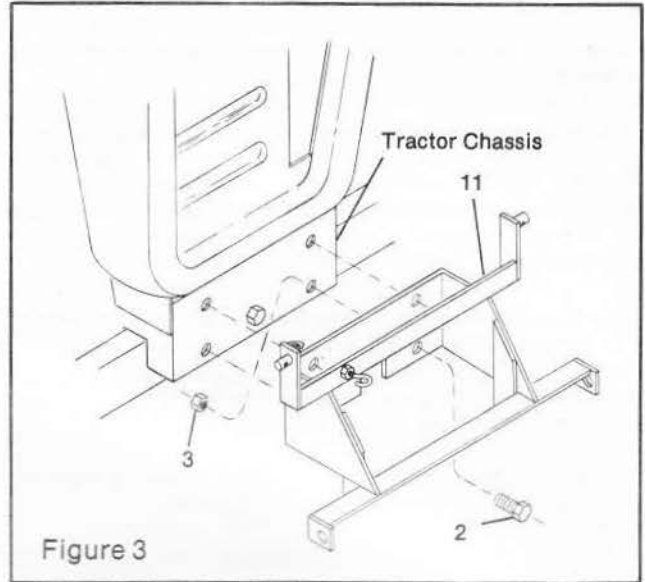


Figure 3

STEP 4 (Figure 3)

Assemble Snow Thrower to Tractor using: Four hex bolts (2), and four hex lock nuts (3) furnished in the parts bag.

- A.) Roll Tractor to the rear of the Snow Thrower head assy.
- B.) Aligning holes in Tractor chassis with those in the Snow Thrower Attachment mounting bracket (11), as shown in Figure 3).
- C.) Roll Tractor forward until mounting bracket (11) rests against Tractor chassis.
- D.) Raise or lower mounting bracket (11) to align holes with those in tractor chassis.
- E.) Assemble four hex bolts (2) thru mounting bracket and chassis, assemble four hex lock nuts (3) to bolts, tighten securely.

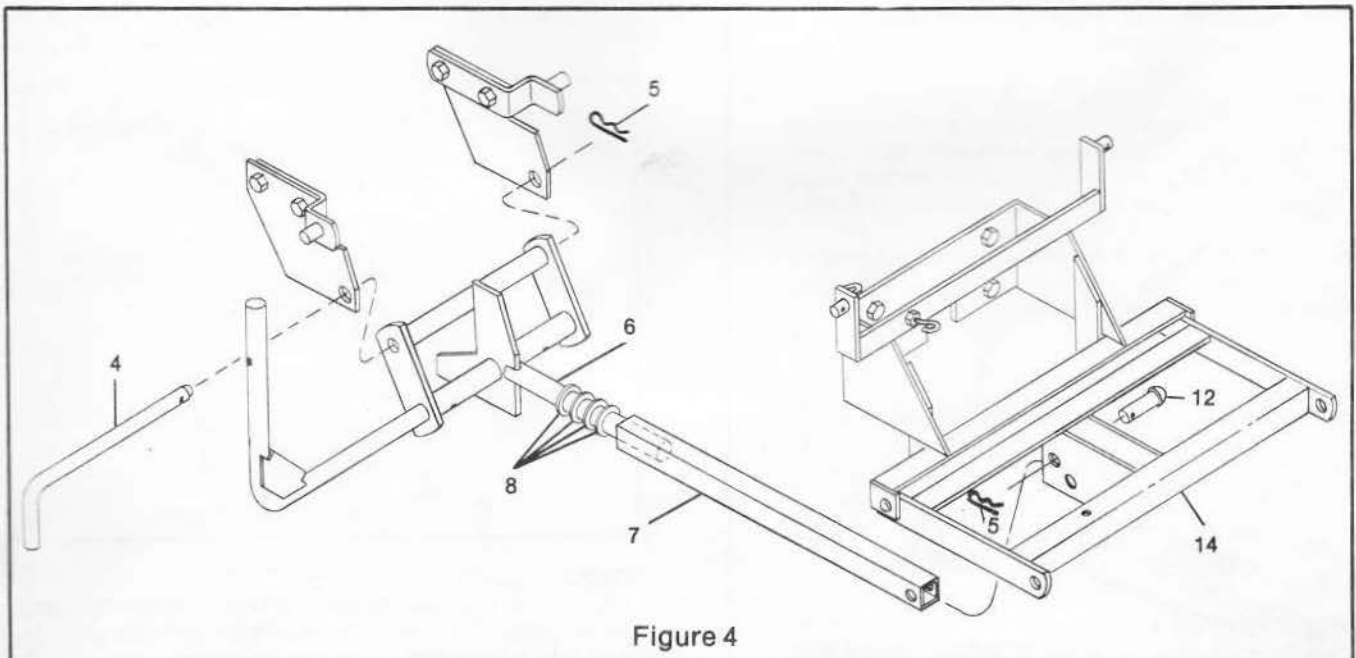


Figure 4

ASSEMBLY

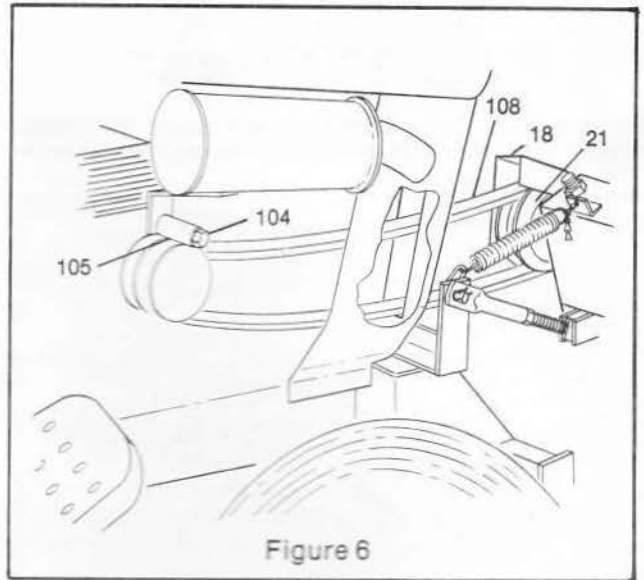
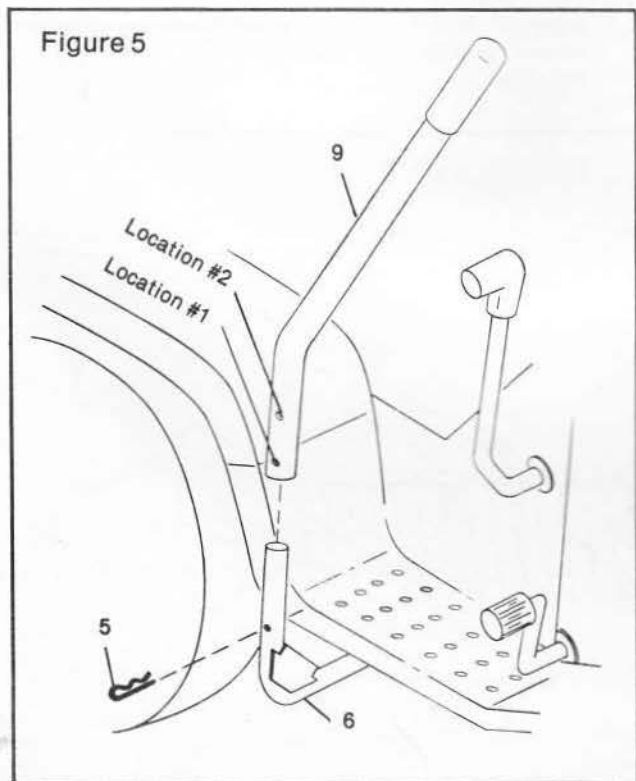
STEP 5 (Figure 4)

Assemble lift mechanism to Tractor and auger head assembly.

- A.) Assemble four washers (8), furnished in parts bag, and lift bar (7) onto lift lever rod (6) as shown in Figure 4.
- B.) Place lift assembly/lift bar (6 & 7) under Tractor with lift bar (7) towards front and lift assembly (6) towards rear of Tractor.
- C.) Raise lift assembly (6), locating it between rear mount brackets (1) and align holes, Figure 4.
- D.) Insert mount rod (4) through holes and secure with hair pin (5) furnished in parts bag, Figure 4.
- E.) Raise lift bar (7) locating it between bracket of front lift mechanism (14) and align holes. Figure 4.
- F.) Insert clevis pin (12) and secure with hair pin (5) furnished in parts bag.
- G.) Assemble lift tube (9) over lift arm (6) and secure with hair pin (5) Figure 5.

NOTE: Location #1 is used without cab. Location #2 is used with cab (Figure 5).

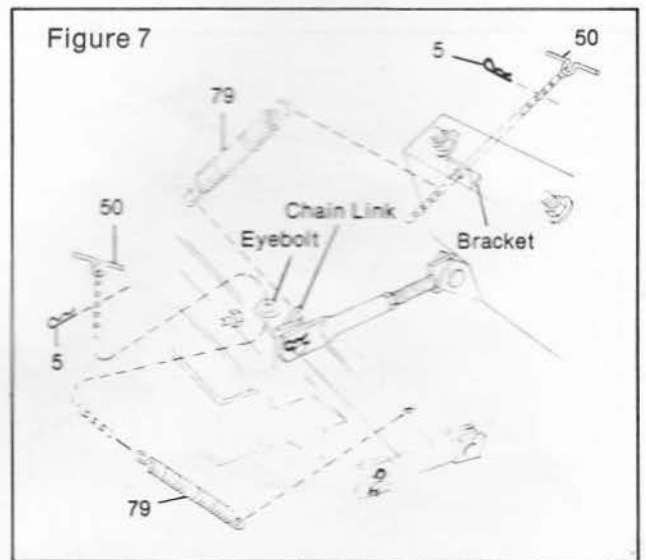
- H.) Raise auger head assembly by pulling back on the lift tube (9), lift mechanism should lock in the "up lock position". If lift mechanism does not lock in lock position, remove washer (8) as required to obtain the "up lock position."



STEP 6 (Figure 6)

Assemble V-belt from Snow Thrower Attachment to Tractor.

- A.) Remove pulley cover, (See Figure 14, Page 6 of your Tractor Owner's Manual).
- B.) Remove hex bolt and washer securing muffler support (See Page 18 of your Tractor Owner's Manual).
- C.) Assemble V-belt (108) between pulley (21) and belt guard (18), placing V-belt on pulley (21).
- D.) Place V-belt (108) through hole in right hand side of Tractor grille, loop V-belt (108) around engine pulley and locate in first groove of engine pulley.
- E.) Assemble lock washer (112) and belt guide (105) onto hex bolt (104), furnished in Parts Bag, replacing hex bolt removed in Step (B) above.



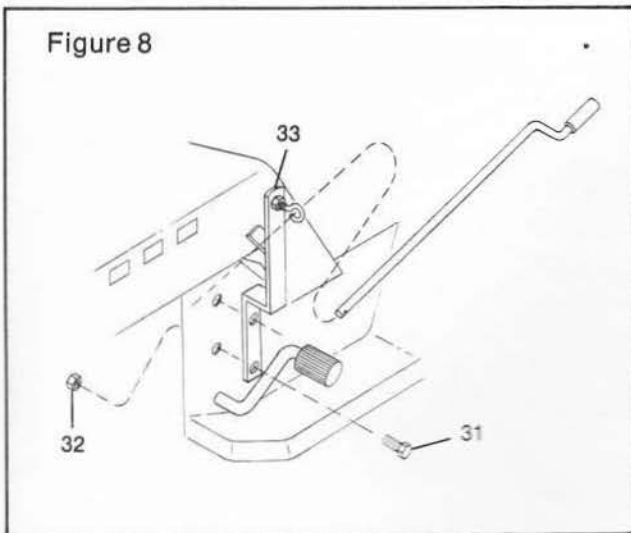
STEP 7 (Figure 7)

Assemble lift assist and auger head stabilizer springs using two pull chains (50), two springs (79) and two hair pins (5), furnished in Parts Bag.

ASSEMBLY

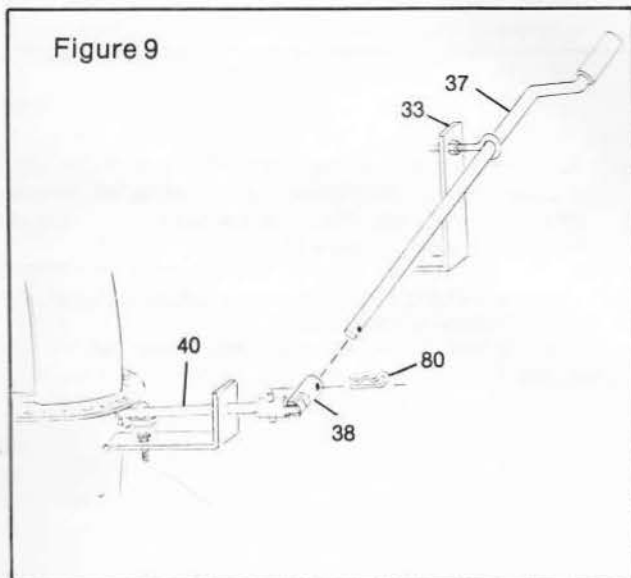
- A.) Thread pull chain (50), one each, through eye bolt and bracket, Figure 7.
- B.) Hook one end of each spring (79) through hole in front lift mechanism (14) or chain link on front bracket (11). Hook other end of spring to ends of roll chains. (50), Figure 7.
- C.) Raise auger head assembly with lift tube to the "up lock position."
- D.) Pull on toggle end of pull chain, exerting a slight pressure on spring.
- E.) Hold tension on spring by inserting hair pin (5) through chain just above bracket & eye bolt; repeat for opposite chain.

Figure 8



STEP 8 (Figure 8)
Assemble crank rod support (33) to Tractor using: two hex bolts (31) and two hex lock nuts (32), furnished in Part Bag, as shown in Figure).

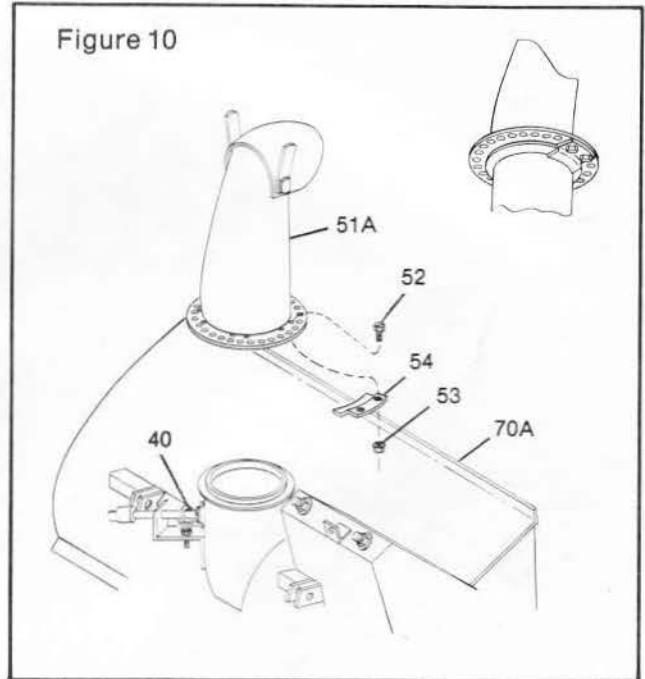
Figure 9



STEP 9 (Figure 9)
Assemble chute control rod (37) to universal (38) on control rod (40) and secure with hair pin (80).

- A.) Place straight end of chute control rod (37) thru chute control rod support (33).
- B.) Install chute control rod (37) into universal (38) and align hole in rod with hole in universal.
- C.) Secure control rod (37) to universal (38) with hair pin (80) furnished in Parts Bag.

Figure 10



STEP 10 (Figure 10)
Assemble discharge chute (51A) to Snow Thrower Head Assy. (70A) using eight slotted hex head screws (52), eight hex nuts (53) and four chute ring clamps (54).

- A.) With discharge chute opening forward, attach discharge chute (51A) onto the Snow Thrower Head Assy. (70A). The discharge chute (51A) must sit on the Snow Thrower Head Assy. (70A) with teeth of the chute crank gear (40) in holes in ring of discharge chute.
- B.) Attach discharge chute (51A) to Snow Thrower Head Assy. (70A) with four chute ring clamps (54), eight slotted hex head screws (52), and eight hex nuts (53), Figure 10.

NOTE:
A small amount of lubricate on ring before assembly of discharge chute will ease assembly.



Chute Guard (55) must be in place to prevent anyone from reaching into chute (Ref. Page 21).

ASSEMBLY

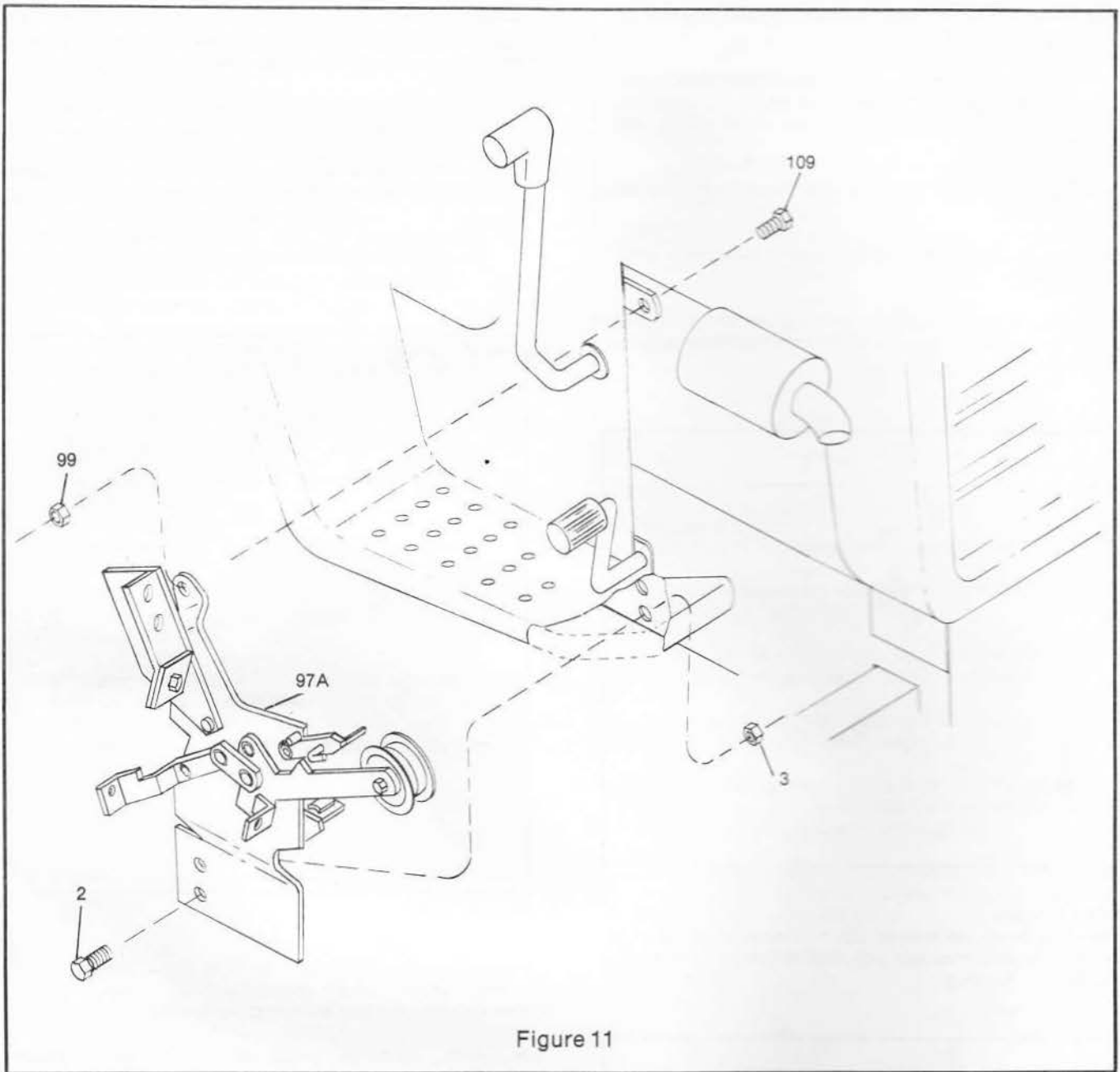


Figure 11

STEP 11 (Figure 11)

Assemble power pack assy. (97A) to Tractor using: Three hex bolts (2 & 109) and three hex lock nuts (3 & 99).

A.) Remove existing Tractor bolt, lock washer and nut, items (34, 35 & 36), See Tractor Owner's Manual Pages 14 & 15.

B.) Assemble power pack assy. (97A) to Tractor with two 3/8 hex bolts (2) two 3/8 hex lock nuts (3) at the bottom and one 1/4 hex bolt (109) one 1/4 hex lock nut (99) at the top as shown in Figure 11.

C.) Locate V-belt (108) over clutch idler and between brake arms as shown in Figure 12.

ASSEMBLY

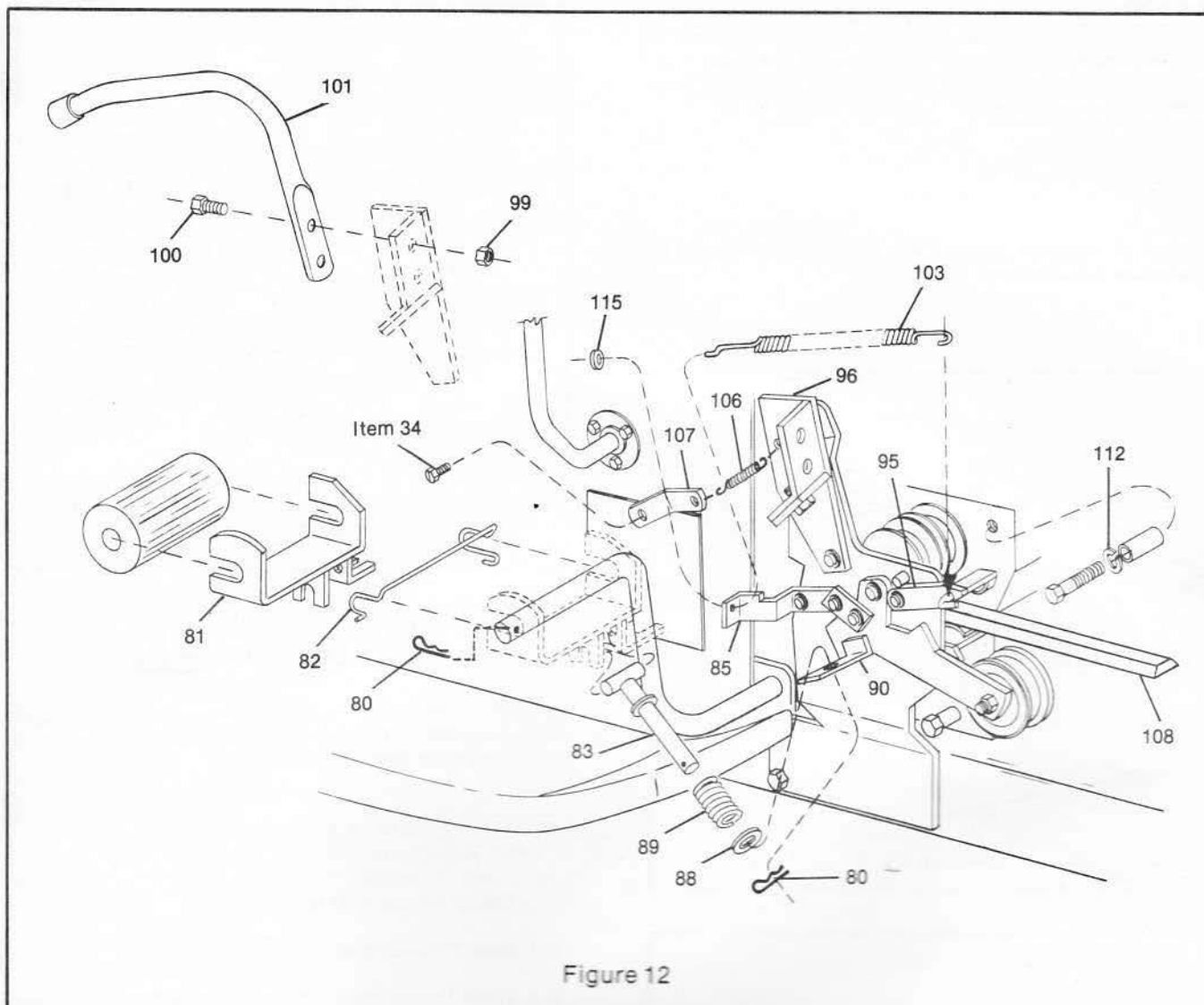


Figure 12

STEP 12 (Figure 12)

Assemble brake spring (103) between clutch linkage (85) with washer (115) see Figure 12 and spring retainer on brake arm (95). Spring must be assembled to top of spring retainer on brake arm (95) as shown in Figure 12.

STEP 13 (Figure 12)

Assemble clutch disengagement arm (101) to power pack assy., as shown in Figure 12, using two hex bolts (100) and two hex lock nuts (99) furnished in Parts Bag.

STEP 14 (Figure 12)

Assemble spring return bracket (107) to Tractor using existing Tractor bolt, Item 34, See Tractor Owner's Manual Pages 12 & 13. Locate spring return bracket as shown in Figure (12), and tighten bolt securely. Attach spring (106), furnished in Parts Bag, to clutch lock weldment (96) and to spring return bracket (107) as shown in Figure 12.

STEP 15 (Figure 12)

Assemble clutch rod (83) into pedal lock bracket (81).

Assemble pedal & lock bracket (81) and retaining wire (82) to attachment clutch pedal, as shown in Figure 12, and secure with hair pin (80), furnished in Parts Bag.

STEP 16 (Figure 12)

Assemble clutch spring (89) and washer (88) onto clutch rod (83), placing clutch rod thru bracket on clutch arm (90) as shown in Figure 12. Secure clutch rod to clutch arm with hair pin (80), furnished in Parts Bag.

ADJUSTMENT

All V-belts can stretch, most stretch occurs in first four hours of use. Check V-belt adjustment after 1/2 hr. use, 1 hr. use, and every hour thru fourth hour of use. After four hours use, check the V-belt adjustment prior to each time Snow Thrower is operated.

CAUTION

Failure to maintain proper belt tension could result in premature V-belt failure.

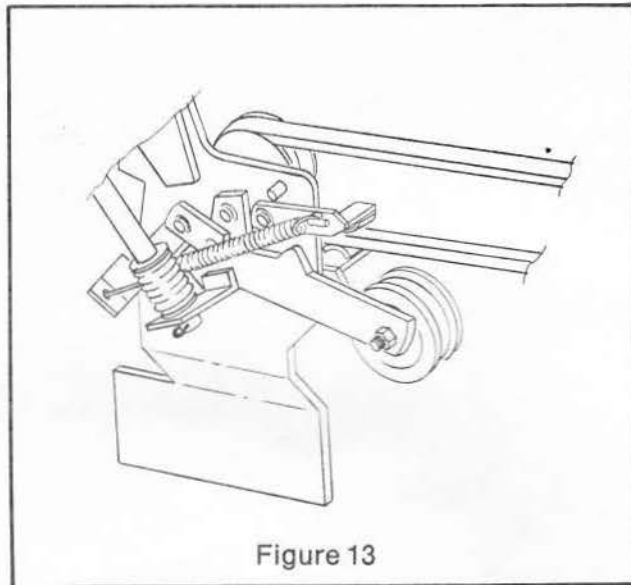


Figure 13

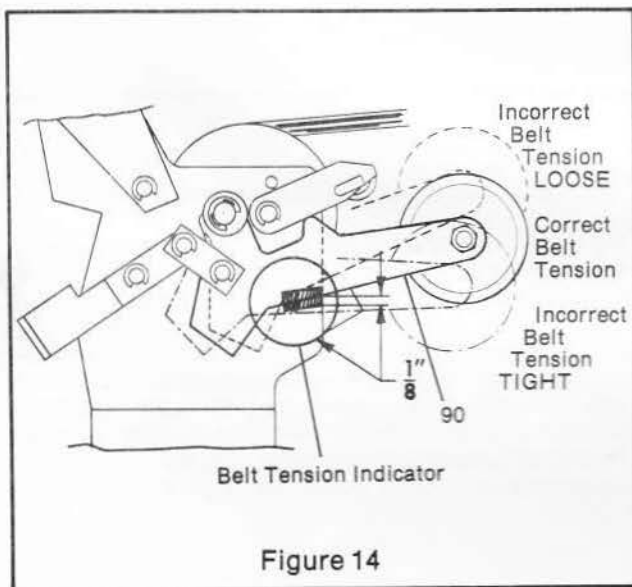


Figure 14

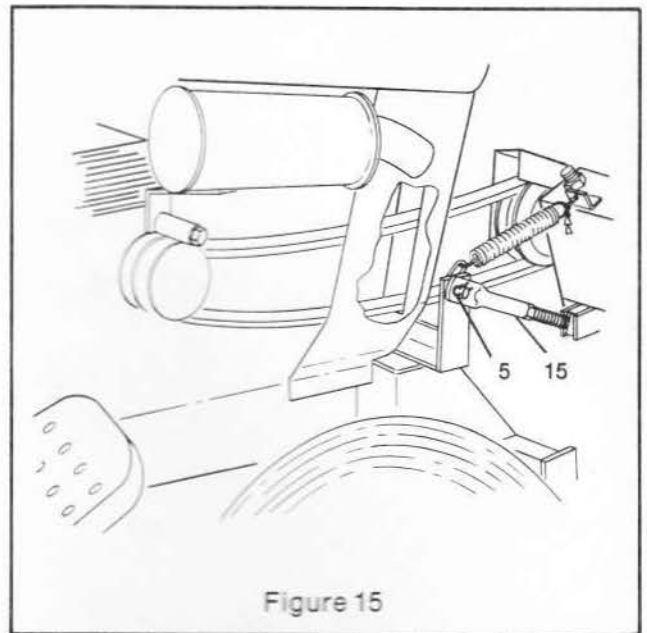


Figure 15



CAUTION

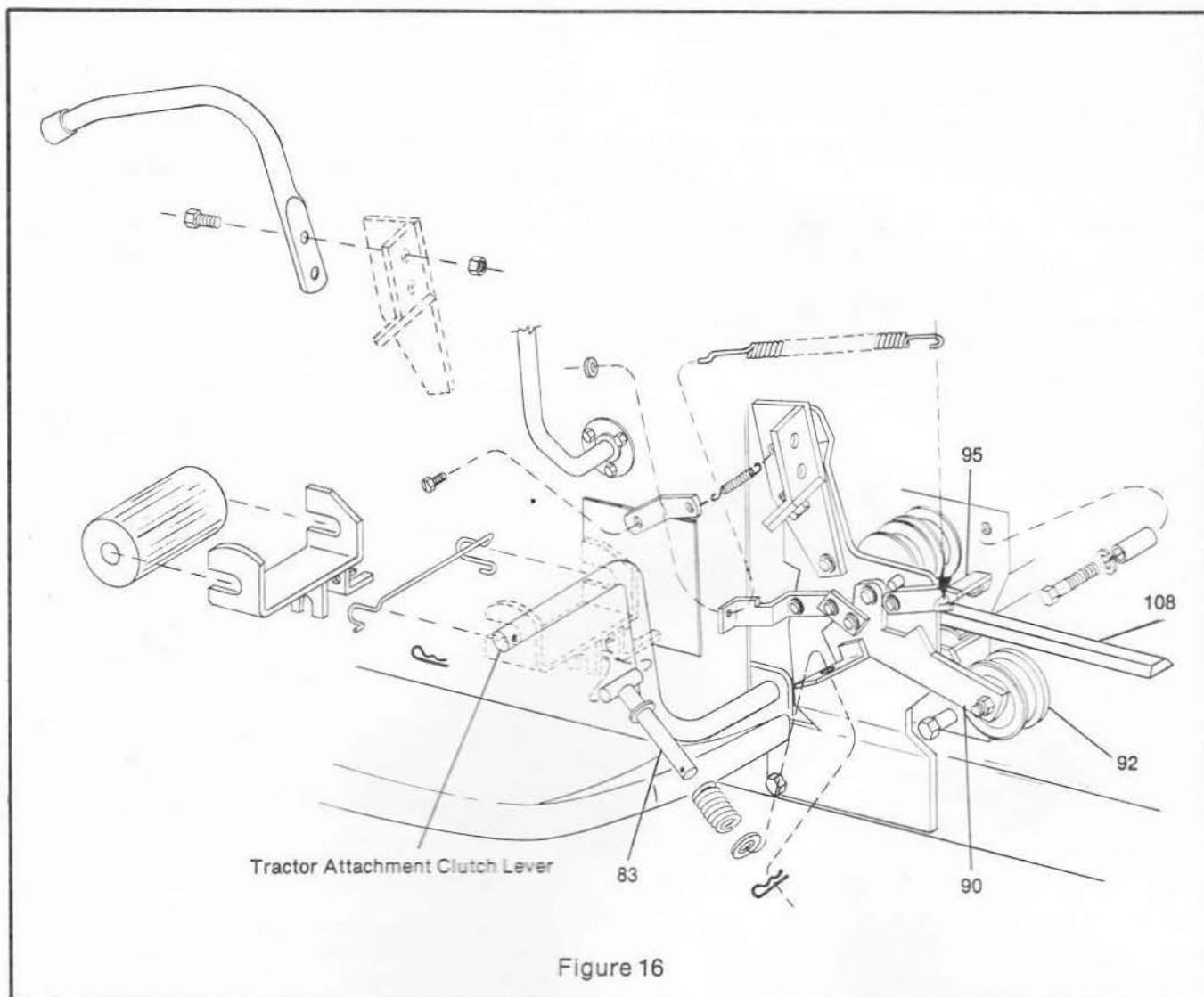


No adjustments to the belt drive should be made without shutting off the tractor engine and removing the spark plug wire from spark plug.

STEP 17 (Figure 14, 15 & 20) V-Belt Adjustment

- Tractor engine must be shut off.
- Snow Thrower must be at ground level.
- When Tractor attachment clutch lever is in the engaged (in) position, correct belt tension is shown by Figure 14.
- To adjust V-belt tension, move Tractor attachment lever to (out) disengaged position (Figure 20) remove hair pin (5) from anchor pin (Figure 15). Slide lift arm (15) off anchor pin. Turn lift arm counter-clockwise to increase V-belt tension and clockwise to decrease V-belt tension. Adjust both arms equally to keep unit square with Tractor. Replace lift arms and secure with hair pins. Move Tractor attachment clutch arm lever to engaged (in) position and check clutch arm (90) for proper setting. Repeat process if necessary to obtain proper V-belt tension as shown in Figure 14.

ADJUSTMENT



Information on Snow Thrower clutch & brake assy. Figure (16), for your Sears No. 260250 Snow Thrower Attachment.

When Tractor attachment clutch lever is moved into the engaged (in) position, clutch rod (83) will rotate clutch arm (90) upward against brake arm (95) removing it from V-belt (108) while engaging clutch idler into V-belt (108).

When Tractor attachment clutch lever is moved into disengaged (out) position, the clutch rod (83) will rotate clutch arm (90) downward allowing spring to roll brake arm (95) onto V-belt (108) while disengaging clutch idler from V-belt (108).

OPERATION

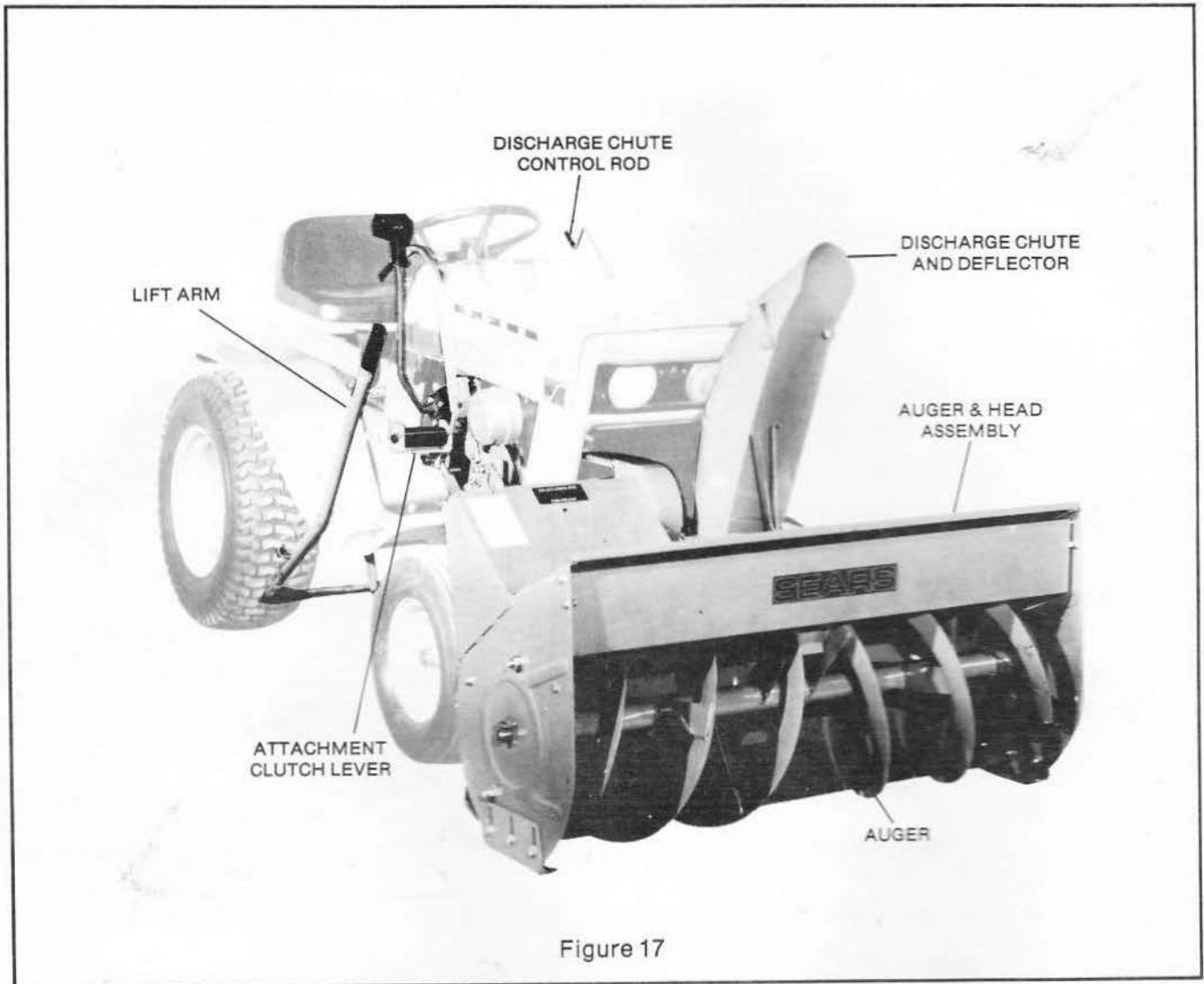


Figure 17

OPERATING INSTRUCTIONS

The operating capacity of your Snow Thrower can be increased by careful observance of operating rules. Your Snow Thrower is capable of handling heavy snow conditions. However giving the equipment the opportunity to function within reasonable requirements will assure you of longer equipment life, less possibility of damage to the unit and require less power to operate. Make certain that you are totally familiar with all aspects of both the Tractor and your Snow Thrower prior to its usage. Listed below are suggestions to improve the performance of your Snow Thrower.

BEFORE PLACING SNOW THROWER INTO OPERATION

- A.) Check all screws and nuts for proper tightness and that all parts are properly assembled.
- B.) Test the following controls for smooth operation.

- | | |
|-------|-------------------------------|
| (47A) | Clutch lever |
| (28) | Discharge chute control rod |
| (100) | Discharge chute and deflector |
| (72A) | Auger and Head Assembly |
| (45) | Lift arm |

STARTING AND STOPPING SNOW THROWER

The Snow Thrower is driven by a V-belt drive from the Tractor engine and is operated through the Snow Thrower attachment clutch lever (Figure 17).

Start Tractor engine and run at half throttle. Push clutch lever forward to engage Snow Thrower. Increase Tractor throttle to full speed. To stop Snow Thrower operation push clutch disengagement lever forward.

TO RAISE AND LOWER SNOW THROWER

The lift arm used to raise and lower the Snow Thrower is located on the right side of the Tractor. To raise Snow Thrower pull back on lift lever. To lower Snow Thrower push forward on lift lever.

OPERATION



CAUTION

If Snow Thrower auger does not stop within 5 seconds after the Tractor attachment clutch lever has been moved to the disengaged (braked) position check unit for adjustments or worn parts and repair before operating.

The V-belt, used in this Snow Thrower attachment is of special construction, designed for use with the V-belt clutch/brake system. For continued satisfactory performance use only replacement belts supplied by the manufacturer.

The use of improper V-belts on the V-belt clutch/brake could cause early failure of the replacement V-belt. V-belts not designed for this type of drive, while similar in appearance, may have an exterior surface of cord construction that will not perform satisfactorily in a V-belt clutch/brake system and could in some cases cause a malfunction in the operation of the machine.

Do not operate this Snow Thrower unless it is operating properly, as outlined in your owner's manual.

DISCHARGE CHUTE CONTROL ROD

The discharge chute rod is located on the left hand side of Tractor, Figure 17 turn rod clockwise to direct snow to the left hand side and turn counterclockwise for the opposite effect.

DISCHARGE CHUTE DRIVE TUBE ADJUSTMENT

If discharge chute will not hold its position and tends to rotate, adjust lock nut (34) on discharge chute rod eye bolt. Tighten lock nut 1/8 turn and check rotation of drive sprocket by turning discharge chute crank. A small amount of resistance should be encountered. Do not over tighten. Tighten until chute holds its position. (Refer to Attachment Parts Listing)

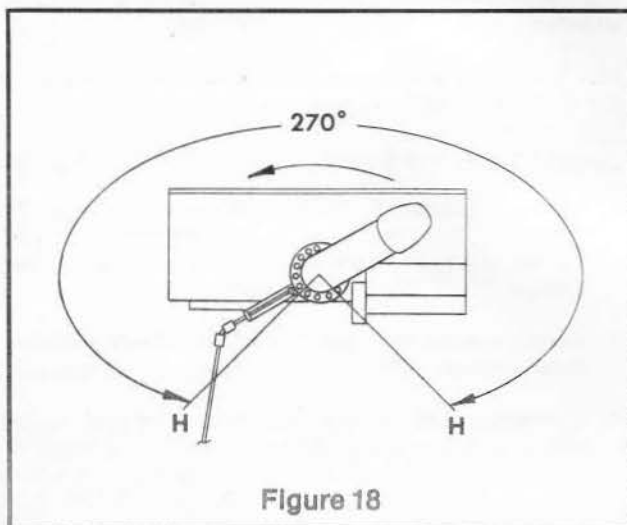


Figure 18

The Snow Thrower has a discharge chute rotation of 270 degrees and is controlled by the discharge chute rod. The discharge chute stop bolt will prohibit rotation beyond points H. Figure 18.

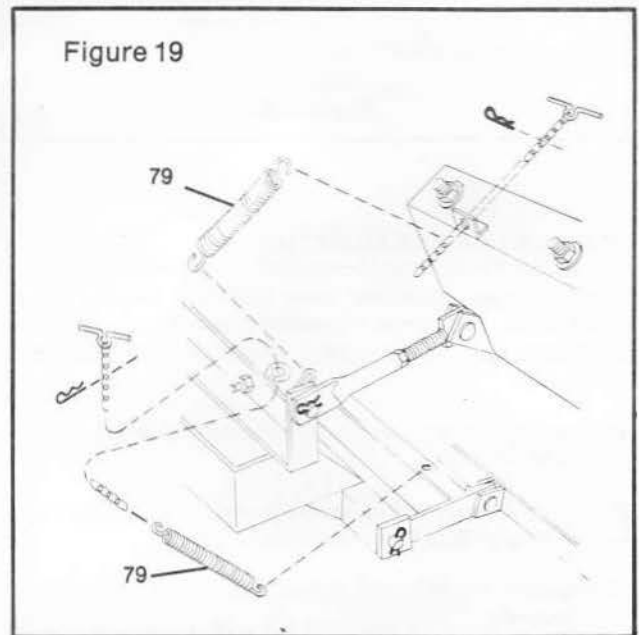
The deflector mounted on top of the discharge chute determines the distance snow is thrown. Moving top of deflector down decreases distance of throw, while raising deflector increases it. Adjustment of the deflector can not be made from the riding position. Disengage the PTO clutch and shut off Tractor engine before making adjustment.



CAUTION

When making any adjustment to Snow Thrower, shut Tractor engine off.

Figure 19



HEAD STABILIZER SPRING

The head stabilizer spring (79) helps to stabilize the head assembly while Tractor is being driven.

With V-belt (108) properly adjusted, increase tension on spring to eliminate "V-belt creep" while Tractor is being driven with Snow Thrower disengaged.

LIFT ASSIST SPRING

With Snow Thrower in raised position pull up on toggle chain and remove hair pin. Allow several links in chain to pass down through the hole in mounting bracket and replace pin just above bracket. To decrease scraping action when Snow Thrower is used on rough surfaces, increase tension on lift spring by removing hair pin and pulling several links up through hole in mounting bracket and replacing pin.

OPERATION

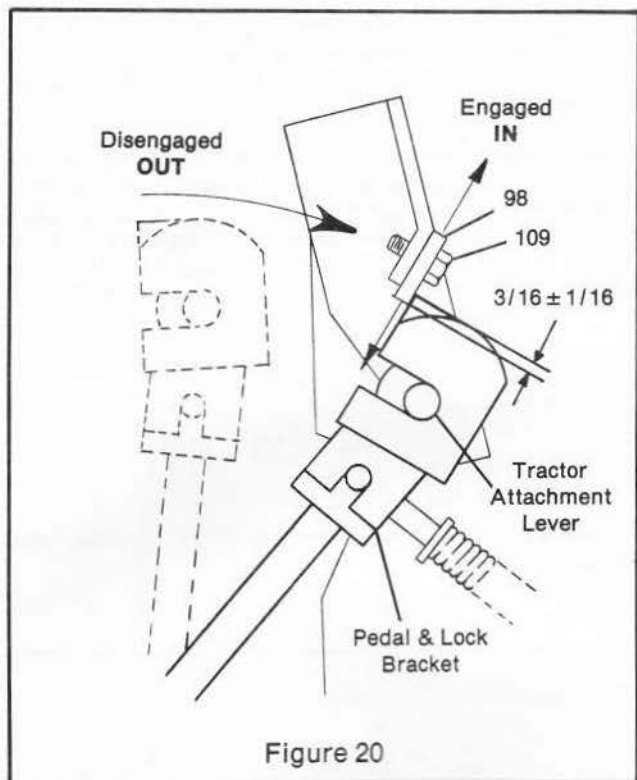


Figure 20

LOCK LEVER PLATE ADJUSTMENT

The lock lever adjustment plate (98) locks Tractor attachment lever into engaged (in) position. Lock lever adjustment plate (98) must engage pedal & lock bracket (81) by $3/16''$. (Figure 20).

- A.) Move Tractor attachment lever to engaged (in) position.
- B.) Check overlap of lock lever adjustment plate confirming overlap of $3/16''$ plus or minus $1/16''$.
- C.) Loosen hex bolt (109) adjust as required and retighten securely.

OPERATION

The Snow Thrower controls are conveniently located at the operator's position on the Tractor. By engaging the auger clutch, snow is thrown through the discharge chute by the motion of the auger. Turning the discharge chute crank directs snow discharge and the angle of the deflector controls the distance snow is thrown.

SNOW CONDITIONS

Snow removal conditions vary so greatly from the first light fluffy snowfall to wet heavy snow that operating instructions must be flexible to fit the snow removal encountered. The operator must adapt the Tractor and Snow Thrower to depth of snow, wind directions, temperature and surface conditions.

OPERATING SPEED

The auger speed is directly related to engine speed. For maximum snow removal and discharge maintain high engine R.P.M. (full throttle). It is advisable to operate the Tractor at a slow ground speed for safe and efficient snow removal.

DEEP OR DRIFTED SNOW

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

In extremely deep snow, raise Thrower from ground and drive ahead into snow to remove top layers first, keeping Tractor out of snow bank. Do not enter Tractor into snow bank where snow has not been removed to ground level. Disengage Tractor clutch and allow Thrower to clear the snow. Reverse Tractor and lower Thrower to the ground. Drive Tractor 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.

TIRE CHAINS

The use of tire chains is recommended for extra traction at all times.

Rear hitch-plate weights are also available from your Sears Store if added traction is required.

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 auger must be broken loose or thawed with care. When attempting to loosen auger if frozen or jammed, shut off Tractor engine and remove spark plug wires. Never attempt to clear Snow Thrower at any time with Tractor engine running.

OPERATION

SKID SHOE ADJUSTMENT

The skid shoe mounted on each side of the auger housing adjusts the distance the scraper blade is raised above the plowing surface. When removing snow from an uneven surface or a gravel driveway, it is advisable to keep the scraper blade as high above the surface as possible to prevent possible damage to the auger and to help prevent stones from being thrown with snow. On blacktop or concrete, keep the scraper blade as close to the surface as possible. The Snow Thrower is shipped from the factory with skid shoe flanges mounted to the side of the housing.

TO ADJUST SKID SHOES (Figure 21)

Raise the Snow Thrower off the ground and place a block under each end of the scraper blade. Loosen the nuts securing skid shoes to the auger housing (70). Move the skid shoes (68) to the desired position and retighten nuts. Adjust both skid shoes to the same height to keep the scraper blade level.

SKID SHOES

Both skid shoes are subject to wear and are designed for easy replacement. Replace before wear is excessive to prevent damage to the auger housing.

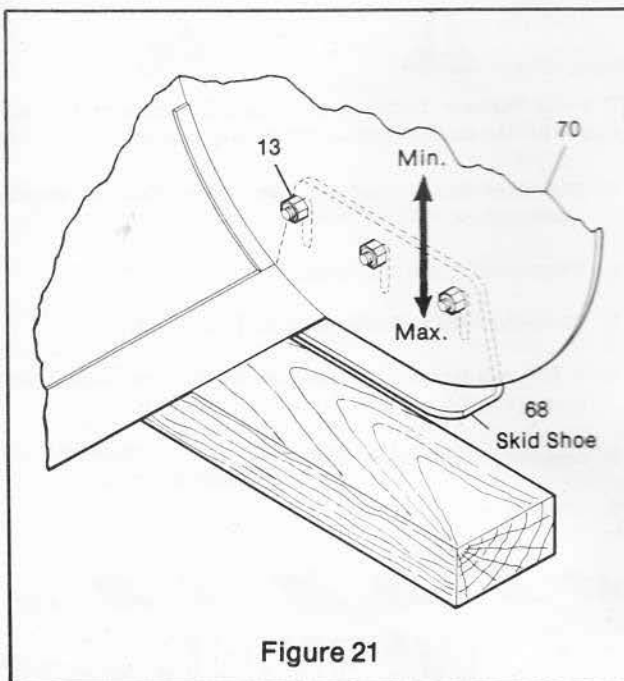


Figure 21

AUGER DRIVE CHAIN

Periodically check auger drive chain to insure that it is properly adjusted. It is important to maintain proper chain adjustment to obtain maximum chain life. Excessive slack in auger drive chain due to normal chain stretch can be removed by adjusting chain tightening adjusting nuts.

AUGER CHAIN ADJUSTMENT (Figure 22)

After first two hours of operation check auger drive chain for adjustment. It is important to maintain proper chain adjustment to obtain maximum chain life. Excessive slack in auger drive chain due to normal chain stretch can be removed by adjustment.

To tighten auger drive chain proceed as follows:

- A.) Shut off Tractor and remove ignition key.
- B.) Remove spark plug wire from spark plug.
- C.) Remove cover (30) loosen inside mounting nuts (27) two or three complete turns.
- D.) Tighten outside adjusting nuts (27) to tighten chain. (Always tighten both outer adjusting nuts (27) an equal number of turns). A correctly adjusted chain will have a slight amount of slack (1/4 to 3/8 inch).
- E.) Retighten inside mounting nuts (27) to secure chain adjustment and replace cover (30).
- F.) Replace spark plug wire and resume snow removal.



CAUTION

Do not lubricate when the Snow Thrower is operating.

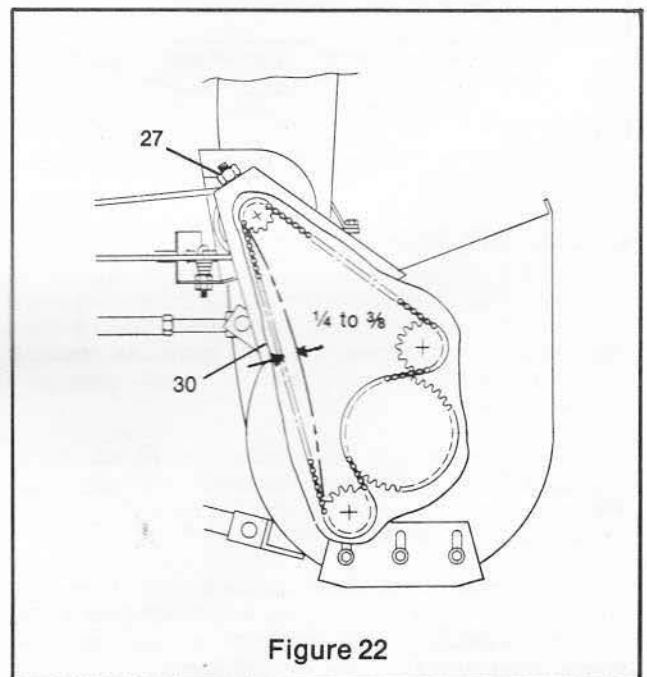
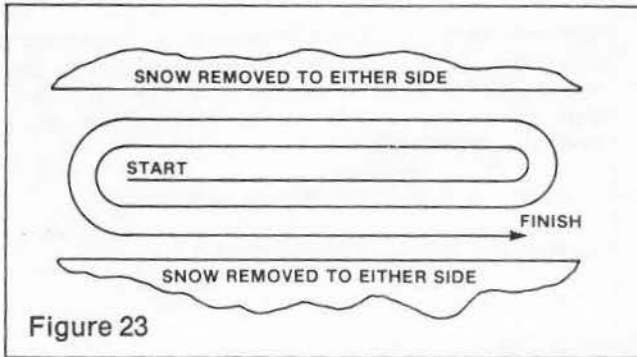


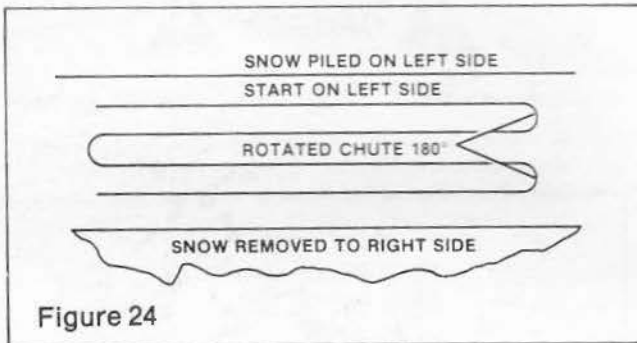
Figure 22

OPERATION

METHODS



A definite pattern of operating is required to thoroughly clean the snow area. This pattern will avoid a second removal of snow and avoid throwing snow in unwanted places. Where it is possible to throw snow to right and left, as on a long driveway, it is advantageous to start in the middle. Work from one end to the opposite end throwing snow to both sides without changing the direction of discharge chute. If snow can only be thrown to one side of the driveway or sidewalk, start on the opposite side. At the end of each succeeding pass, rotate the chute 180 degrees to maintain direction of snow throw into same area.



OPERATING SUGGESTIONS

Before the first snowfall, the area in which snow removal is to take place should be cleared of all stones, sticks and the like which might be picked up by the auger. All obstacles should be marked to protect the Tractor and auger from possible collision.

To become familiar with the controls, operate the Tractor and Snow Thrower in a clear area before removing snow. The more familiar you become with the Snow Thrower the better results you will have in its use.

A light coat of wax applied to the inside surface of the auger housing will prevent snow and ice from sticking to it. The inside of the discharge chute and deflector should be waxed several times during the snow removal season.

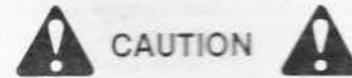
Allow ample engine warm up time before starting snow removal.

For best results, snow should be removed as soon as possible after it falls.

PREPARATION

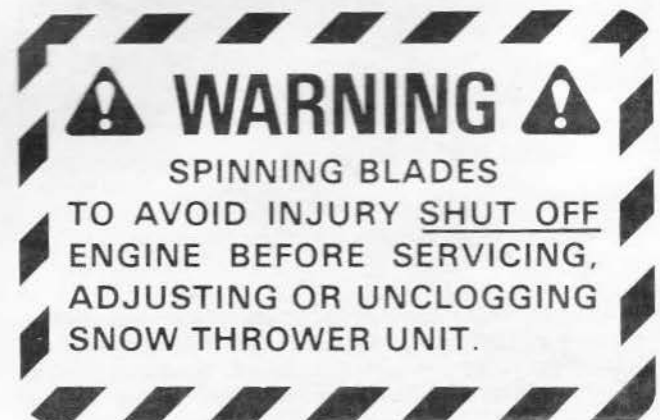
1. Check the Tractor and Snow Thrower to make certain both are in good operating condition.
2. Fill gas tank out of doors and avoid spilling gasoline over engine. Do not fill tank with gasoline while smoking or while engine is running.

Do not remove any guards or covers while operating Tractor and Snow Thrower or make any adjustments while dismounted from the driving position.



If Snow Thrower becomes plugged with snow or jammed due to hitting an obstruction, proceed as follows:

1. Declutch Snow Thrower and stop Tractor engine immediately.
2. Disconnect spark plug wire(s).
3. Clear snow from discharge chute if plugged.
4. If auger is jammed, remove obstruction and repair any damage to Snow Thrower before continuing.
5. Connect spark plug wire(s).
6. Resume operation.



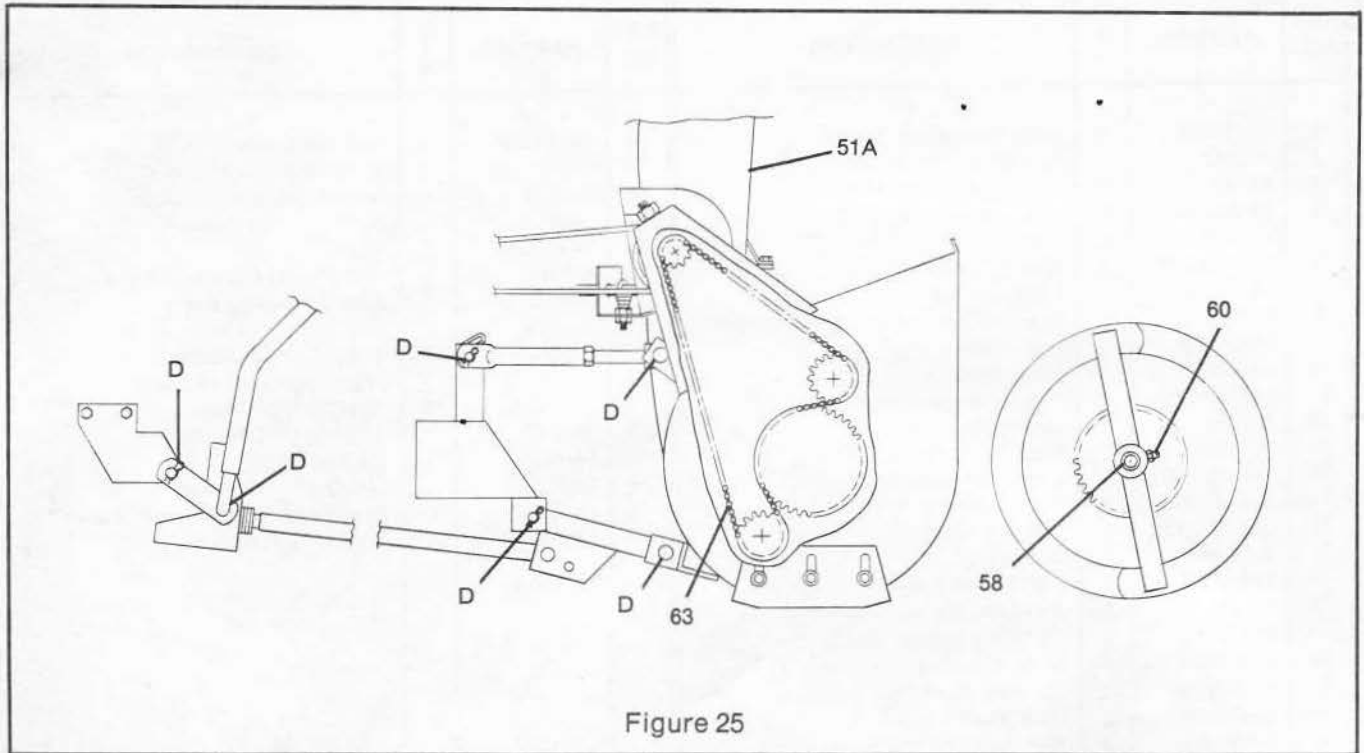
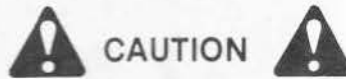


Figure 25



CAUTION

Do not lubricate when the Snow Thrower is operating.

LUBRICATION

The following fittings require grease every four hours of machine operation with any standard commercial grease.

- A) Grease fittings (60) on auger shaft.

Lubricate auger assembly at grease fitting (60) using regular pressure gun grease. Apply grease with gun until a slight amount of grease can be seen coming from both ends of auger shaft. Wipe off surplus grease.

The following points require lube oil every five hours of operation with any standard commercial motor oil.

- B) Discharge chute (51A)
- C) Chain (63)
- D) Pivot Points

LIGHT MACHINE OIL LUBRICATION OF AUGER BEARINGS (58)

Lubricate at the start of the snow season with light machine oil, and also when storing machine for the summer.

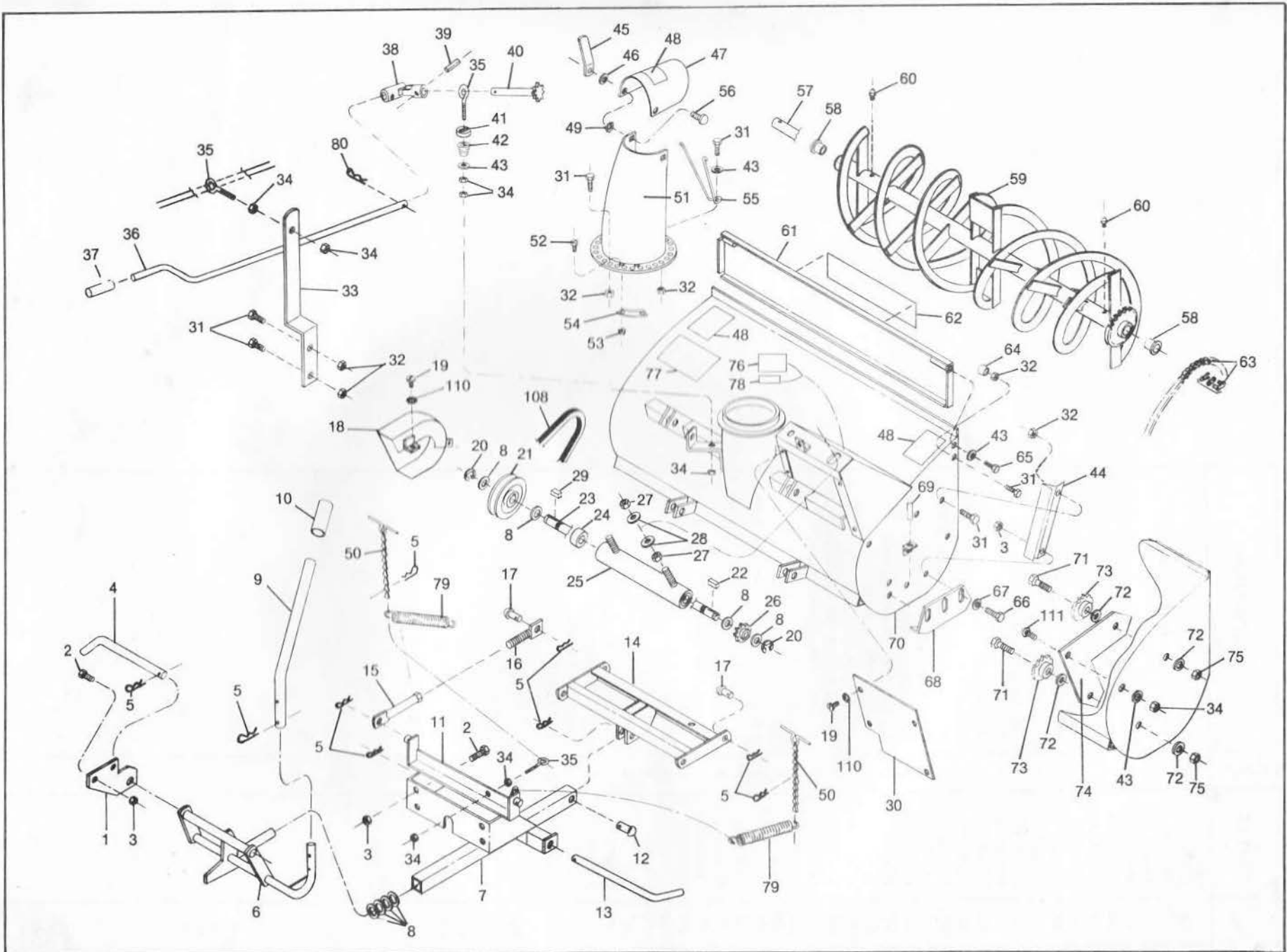
STORING SNOW THROWER

At the end of the snow season the following steps are recommended.

1. Remove Snow Thrower assembly from Tractor.
2. Wash off any salt deposit which may have dried on the Snow Thrower and housing. Paint or cover exposed metal with a light coat of oil.
3. Lubricate the Snow Thrower following the lubricating instructions. The Snow Thrower drive chain must be oiled thoroughly to stop rust from forming.
4. Store Snow Thrower in a dry place.

PARTS LIST

KEY NO.	PART NO.	QTY	DESCRIPTION	KEY NO.	PART NO.	QTY	DESCRIPTION
1	14-B1173	2	Mtg. Brkt.-Rear Tractor	64	14-A1276	2	Bumper Stops
2	X-1147	10	3/8-16 X 1" H. H. Cs.	65	L-127	2	5/16-18 X 1 1/2 H. H. C. S.
3	X1199	16	3/8-16 Hex Lock Nut	66	X-1024	6	3/8-16 X 3/4 H. H. C. S.
4	14-A1154	1	Mtg. Rod - -Rear	67	L-64	12	3/8 I. D. Flat Washer
5	X-1229	13	Hair Pin	68	14-C1029	2	Skid
6	14A-D1203	1	Rear Lift Ass'y	69	X-1004	2	Roll Pin (1/4 Diam. X 1 1/4)
7	14-B1204	1	Lift Push Bar	70	14A-D1275	1	Auger Housing Ass'y.
8	X-1048	8	3/4 I. D. X 1 1/4 O. D. Flat Washer	71	X-1279	2	1/2-13 X 2 1/4 H. H. C. S.
9	14-C1408	1	Lift - Tube	72	L-64A	2	1/2 I. D. Flat Washer
10	16-3080B	1	Hand Grip	73	14-B1440	1	Idler Sprocket - 18 Tooth
11	14A-C1161	1	Tractor Pivot Mtg. Brkt. Assy.	74	14-C1193	2	Idler Sprocket Plate
12	X-1382	1	Clevis Pin	75	X-1353	1	1/2-13 Hex Lock Nut
13	14-A1155	1	Mtg. Rod - Front	76	14-A1261	1	Caution Decal
14	14A-C1106	1	Front Lift Pivot Mech.	77	14-C1272	1	Ground Speed Decal
15	14A-A1067	2	Top Front Lift Arm Assy.	78	14-B1131	5	Model/Serial Number Plate
16	14A-B1252	2	Top Adj. Arm Weld	79	14-A1109	2	Spring - Lift Assist
17	X-A1499	4	Clevis Pin				
18	14A-C1259	1	Belt Guard Assy.				
19	X-1016	6	#10-24 X 3/8 Self Tap Screw				
20	X-1003	2	"E" Ring (3/4 D. Shaft)				
21	14-C1074	1	5" O. D Pulley				
22	X-1389	1	Sq. Key (3/16 Sq. X 5/8)				
23	14-C1166	1	Jack Shaft				
24	4-10840	2	Ball Bearing				
25	14A-B1006	1	Jack Shaft Tube Weld				
26	14-A1049	1	Sprocket 11 T				
27	X-1341	2	Hex Jam Nut				
28	X-1532	2	Flat Washer				
29	X-1397	1	Sq. Key (3/16 Sq. X 7/8)				
30	14-C-1170	1	Jackshaft Access Cover				
31	L-59	7	3/16-18 X 3/4 H. H. C. S.				
32	X-1107	9	3/16-18 Hex Lock Nut				
33	14-B1100	1	Chute Crank Support Bracket				
34	L-60	6	5/16-18 Hex Nut				
35	X-1235	3	5/16-18 Eye Bolt				
36	14-B1139-2	1	Chute Crank Rod				
37	14-A1317	1	Chute Crank Hand Grip				
38	14-A1296	1	Chute Crank Universal				
39	X-1369	1	Roll Pin (1/8 Diam. X 3/4)				
40	14A-A1089-2	1	Chute Control Rod Ass'y.				
41	4-10709	1	Cup Washer				
42	4-10702	1	Chute Control Spring				
43	L-99	5	5/16 Flat Washer				
44	14-C1022	1	Chain Guard				
45	14A-B1180	2	Chute Adjustment Lever				
46	X-1025	2	5/16 Split Ring Lock Washer				
47	14-B1396	1	Chute Deflector				
48	14-A1262	3	Warning Decal				
49	X-1395	2	7/16 I. D. Ext. Tooth Lock Washer				
50	14-A1011	2	Pull Chain - Lift				
51	14A-D1024	1	Chute				
52	X-1242	8	#10-24 X 1/2 Machine Screw				
53	L-242B	8	#10-24 Hex "Kep" Nut				
54	4-10900	4	Chute Ring Clamp				
55	14-C1386	1	Chute Guard				
56	X-1042	2	5/16-18 X 5/8 Carriage Bolt				
57	4-11109-2	1	Auger Shaft				
58	14-A1414	2	Auger Bushing				
59	14A-D1111	1	Auger				
60	X-1492	2	Grease Zerk				
61	14A-B1041-2	1	Swing Baffle				
62	14-B1260	1	Decal - Sears				
63	14-A1191	1	Chain - #40 (97 Pitches)				

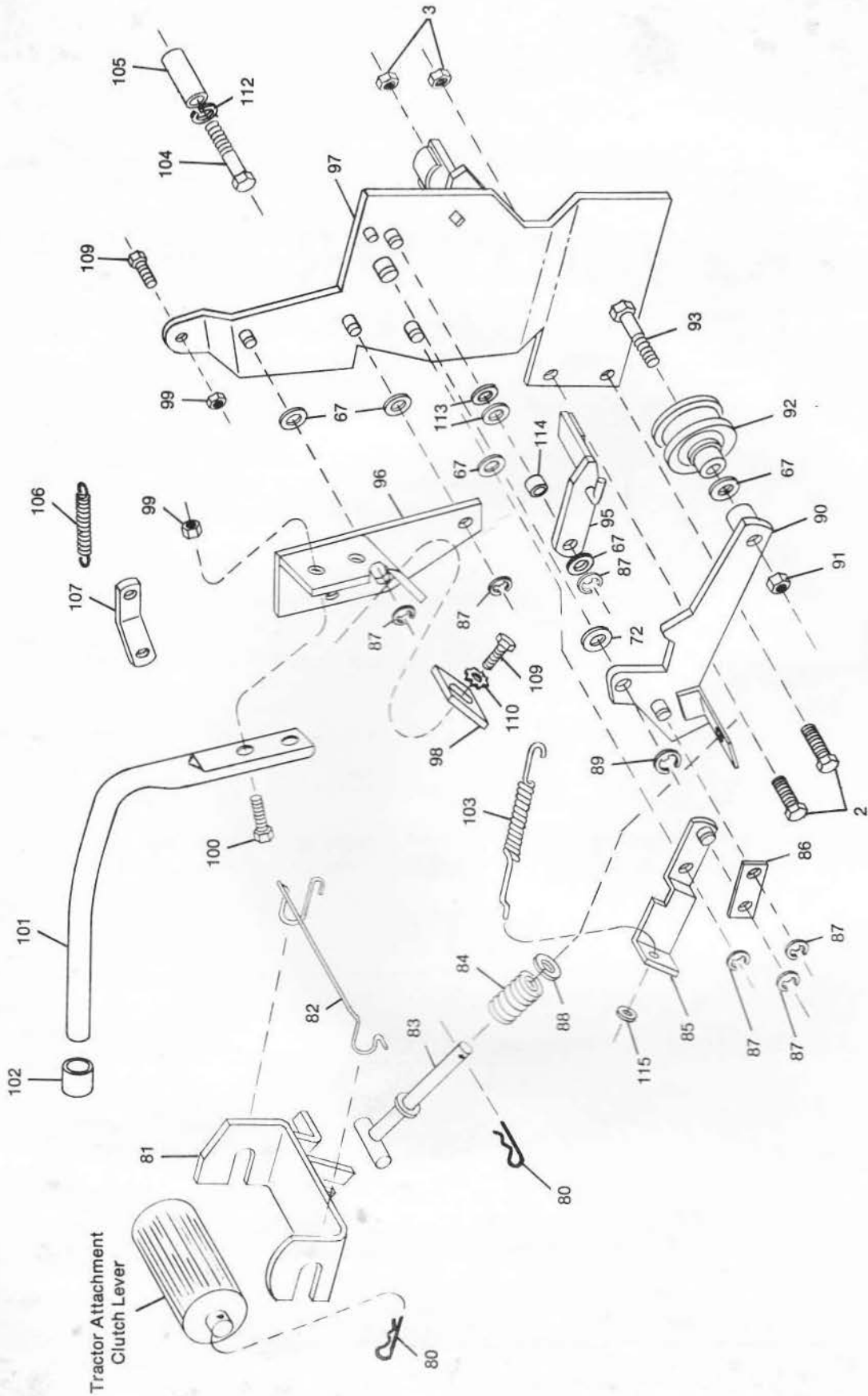


PARTS LIST

PARTS LIST

KEY NO.	PART NO.	QTY	DESCRIPTION
80	L-298	2	Hair Pin
81	14A-B1417	1	Pedal & Lock Brkt. Weld
82	14-B1413	1	Retaining Wire
83	14A-B1420	1	Clutch Rod
84	14-A1226	1	Spring - Clutch
85	14A-A1407	1	Clutch Pivot Arm Weld
86	19-A1400	1	Clutch Pivot Link
87	L-269	6	"E" Ring (3/8 D. Shaft)
88	X-1036	1	7/16 Flat Washer
89	L-266	1	"E" Ring (1/2 D. Shaft)
90	14A-B1097	1	Clutch Arm Weld
91	X-1127	1	3/8-24 Hex Lock Nut
92	14-B1147	1	Idler Pulley - Backside
93	X-1208	1	3/8-24 X 2 1/4 Hex Head Cap Screw
95	14A-B1058	1	Pivot Brake Weld
96	14A-B1406	1	Clutch Lock Weld
97	14A-D1215	1	Clutch/Brake Bracket Weld
98	14-A1422	1	Lock Lever Adj. Plate
99	L-303	3	1/4-20 Lock Nut
100	X-1182	2	1/4-20 X 1 1/4 Hex Head Cap Screw
101	14-C1409	1	Clutch Disengagement Arm
102	1-1527B	1	Tube End Cap
103	14-A1403	1	Spring - Brake
104	X-1439	1	3/8-16 X 4 1/2 Hex Head Cap Screw
105	14-A1423	1	Belt Guide
106	4-10227	1	Spring
107	14-A1410	1	Spring Return Bracket
108	14-B1073	1	V-Belt
109	L-172	2	1/4-20 X 2/4 Hex Head Cap Screw
110	X-1132	6	1/4 Ext. Tooth Lock Washer
111	L-223	1	5/16-18 X 3/4 Carriage Bolt
112	X-1070	1	3/8 Split Lock Washer
113	X-2036	2	3/8 Flat Washer
114	14-1441	1	Brake Arm Sleeve
115	X-1535	1	Flat Washer
Not Ils.	M14-8002	1	Owners Manual
Not Ils.		1	Warranty Tag

PARTS LIST



Sears

MODEL NO.
180.260250

HOW TO ORDER REPAIR PARTS

MODEL NUMBER

The Model Number will be found on a plate on the left side, attached to the Header Housing. Always mention the Model Number when requesting service or repair parts for your Snow Thrower.

REPAIR PARTS

All parts listed herein may be ordered from any SEARS, ROEBUCK AND CO. retail or catalog store.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION.

- THE PART NUMBER
- THE PART DESCRIPTION
- THE MODEL NUMBER
- THE NAME OF MERCHANDISE

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for "expedited handling".

Your Tractors Model Number _____

Your Tractors Serial Number _____

Your Snow Throwers Serial Number _____

Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A.