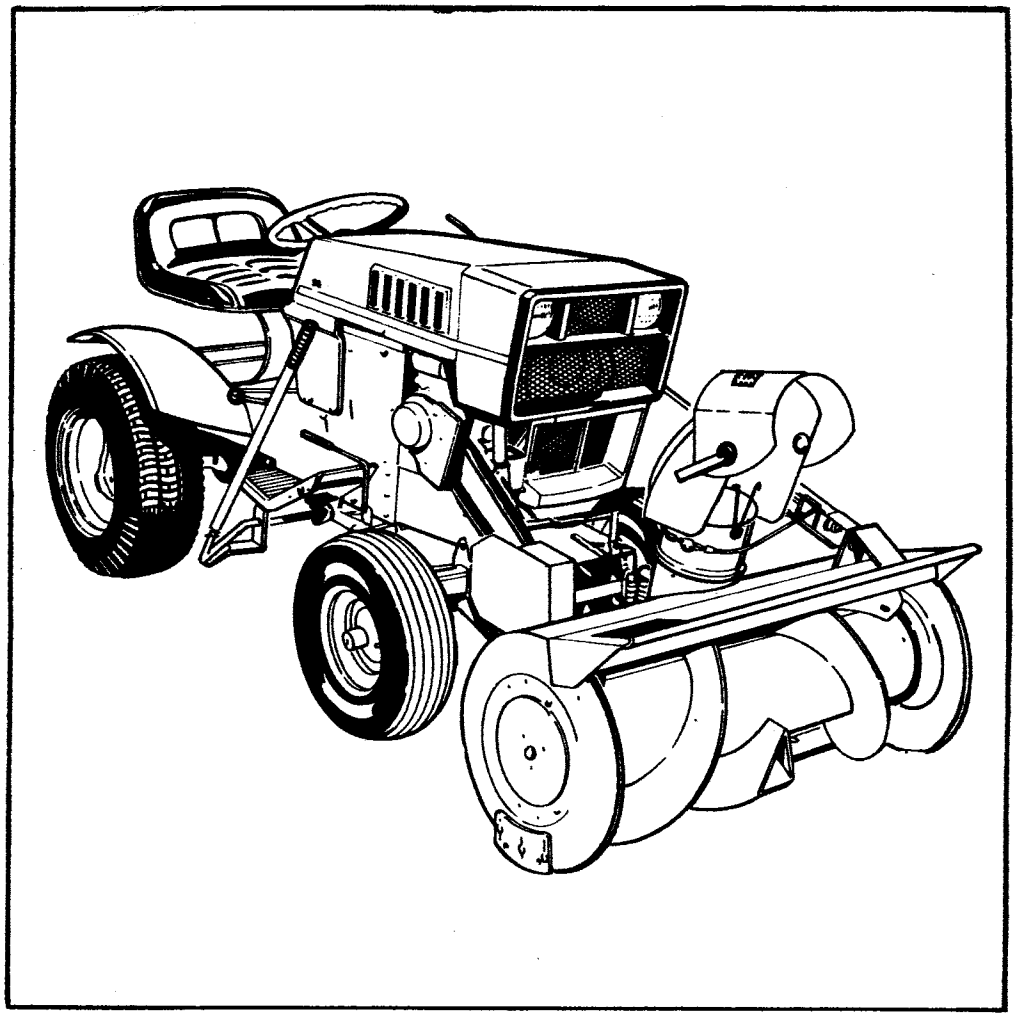
Sears

owners manual



MODEL NO
842.260052

42"SNOW THROWER ATTACHMENT

CAUTION:
Read Rules for Safe Operation and Instructions Carefully

- **Set-up**
- **Operation**
- **Maintenance**
- **Repair Parts**

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

11589 (11.1.78)

PRINTED IN U. S. A.

SAFETY SUGGESTIONS

TRAINING

1. Regard your snow thrower as a piece of power equipment and teach this regard to all who operate it.
2. Never allow children or young teen-agers to operate the tractor and snow thrower.
3. Be sure you know how to stop the tractor and snow thrower at a moment's notice.
4. Instruct children to keep away from the area of operation at all times.

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.
3. Do not remove any guards or covers while operating tractor and snow thrower.

OPERATION

1. Give complete and undivided attention to the job at hand.
2. Keep the area clear of all persons, particularly small children.
3. Stop engine when tractor is unattended.
4. Disengage snow thrower clutch when someone approaches.
5. Do not allow anyone other than the operator to ride on the tractor or to be towed behind.
6. Extreme caution should be exercised under slippery conditions. Reduce forward speed. Install tire chains to traction wheels for added safety.
7. Do not attempt to clear auger or discharge elbow while engine is running.
8. When changing position of the deflector, disengage the auger clutch and shut off tractor engine.
9. Never direct snow discharge at people or buildings.
10. Disengage snow thrower when transporting.
11. If Snow Thrower becomes plugged with snow, declutch Snow Thrower immediately and stop tractor engine, remove engine spark plug wire(s). Clear snow from spout if plugged, before resuming operation.

MAINTENANCE AND STORAGE

1. Follow implicitly the manufacturer's recommendations for maintenance.
2. Have a competent service man make thorough inspection of the snow thrower before the snow season begins.
3. Store gasoline in a safe container. Store container in a cool, dry place, not in the house or near heating appliances.
4. Keep the snow thrower, tractor and gas container in locked storage to prevent children from playing and tampering with them.
5. Maximum snow removal results and safety can be expected only if the snow thrower is maintained and operated correctly.
6. Gasoline powered equipment or fuel containers should not be stored in basement or in any closed area where heating appliances or open pilot lights are present, unless fuel is completely drained from power equipment or fuel containers.

Table of Contents

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.

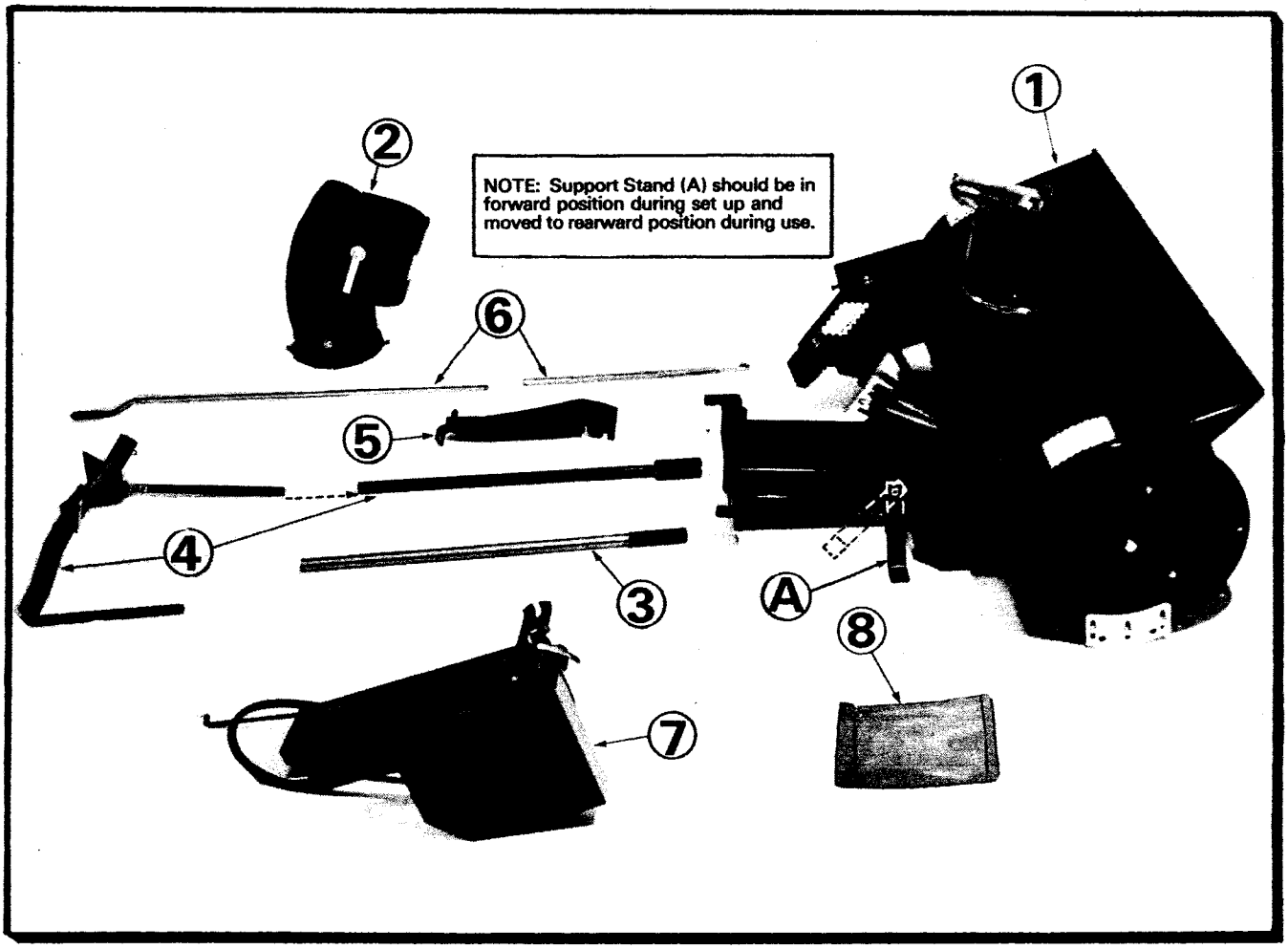
If the tractor attachment is used for commercial or rental purposes, this warranty applies for only thirty days from the date of purchase.

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.

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

SET UP



(Fig. 1)

Your SEARS Snow Thrower and all necessary parts and hardware are packed in one carton. Unpack the carton carefully to insure that all parts are present.
The Snow Thrower attachment consists of the following: **(Figure 1)**

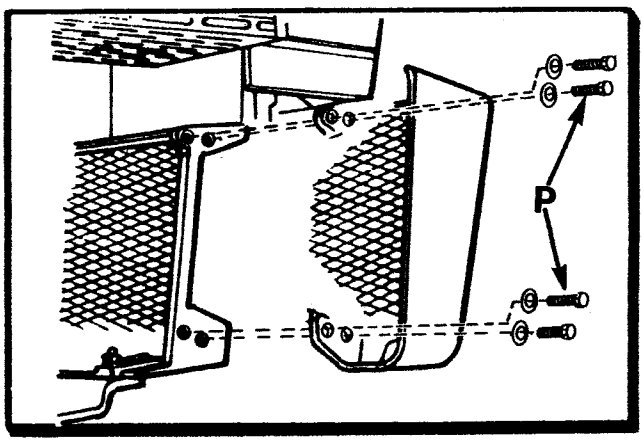
1. Header and Mounting Channel Assemblies
2. Discharge Chute and Deflector
3. Lift Handle
4. Lift Assembly (2 pcs.)
5. Control Crank Support
6. Discharge Chute Control Crank (2 pcs.)
7. Clutch box drive assembly
8. Instruction Manual

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 NEEDED ARE

1 -- 7/16" Open End Wrench (2)
2 -- 1/2" Open End Wrench (2)
3 -- 9/16" Open End Wrench (2)
4 -- Grease Gun
5 -- Oil Can



(Fig. 2)

Step 1: (Fig. 2)
PREPARATION OF TRACTOR

1. Before beginning assembly of the snow thrower attachment, remove any other attachments on the tractor.
2. Remove the right-hand grill side by removing bolts **(P)** shown in Figure 2. Keep grill side and bolts so they may be replaced when snow thrower is removed.

Step 2: (Fig. 3) PTO SHAFT INSTALLATION:

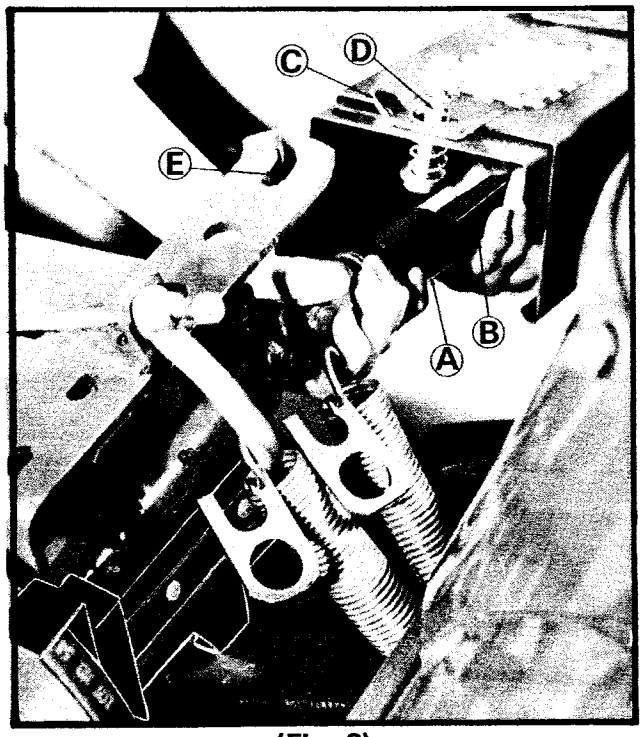
Assemble clutch box drive assembly to snow thrower by setting unit on snow thrower mounting frame. Then align PTO shaft tube **(A)** with PTO shaft **(B)** as shown **(Fig. 3)** and slide PTO shaft halves together.

Step 3: (Fig. 3)

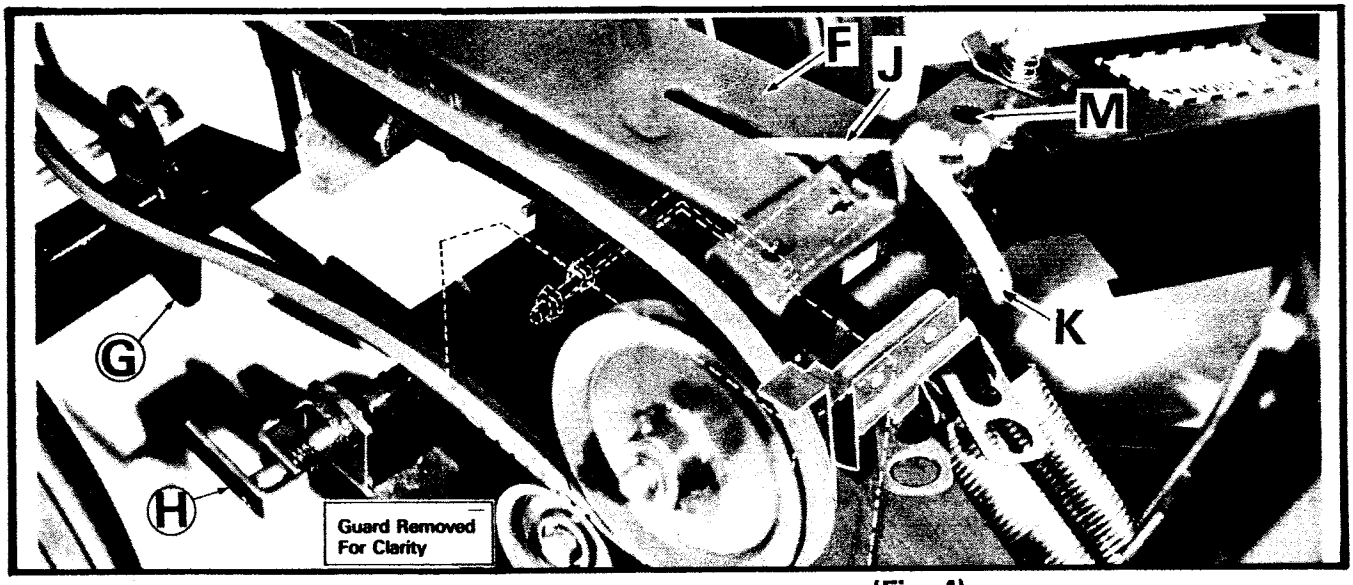
Connect PTO guard to clutch box drive assembly by pulling up on wing (C) against spring so that bolt (D) can be slid into notch (E). Then release wing (C). Make certain PTO guard is securely fastened as shown in (Fig. 4).

Step 4: (Fig. 4)

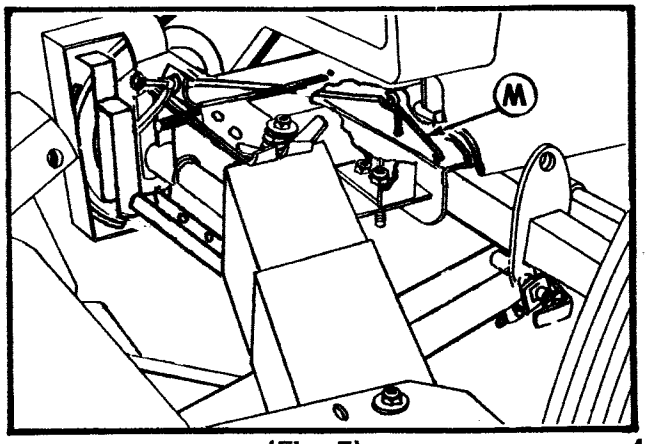
Line up tractor at rear of snow thrower. Then slide clutch box drive assembly part way into tractor frame as shown. Roll tractor forward until axle lug (G) aligns with quick pin brackets (H), then slide clutch drive box into tractor frame until notches in box bottom out on rear pins. Insert mounting hook (M) into holes in tractor frame (see Fig. 5).



(Fig. 3)



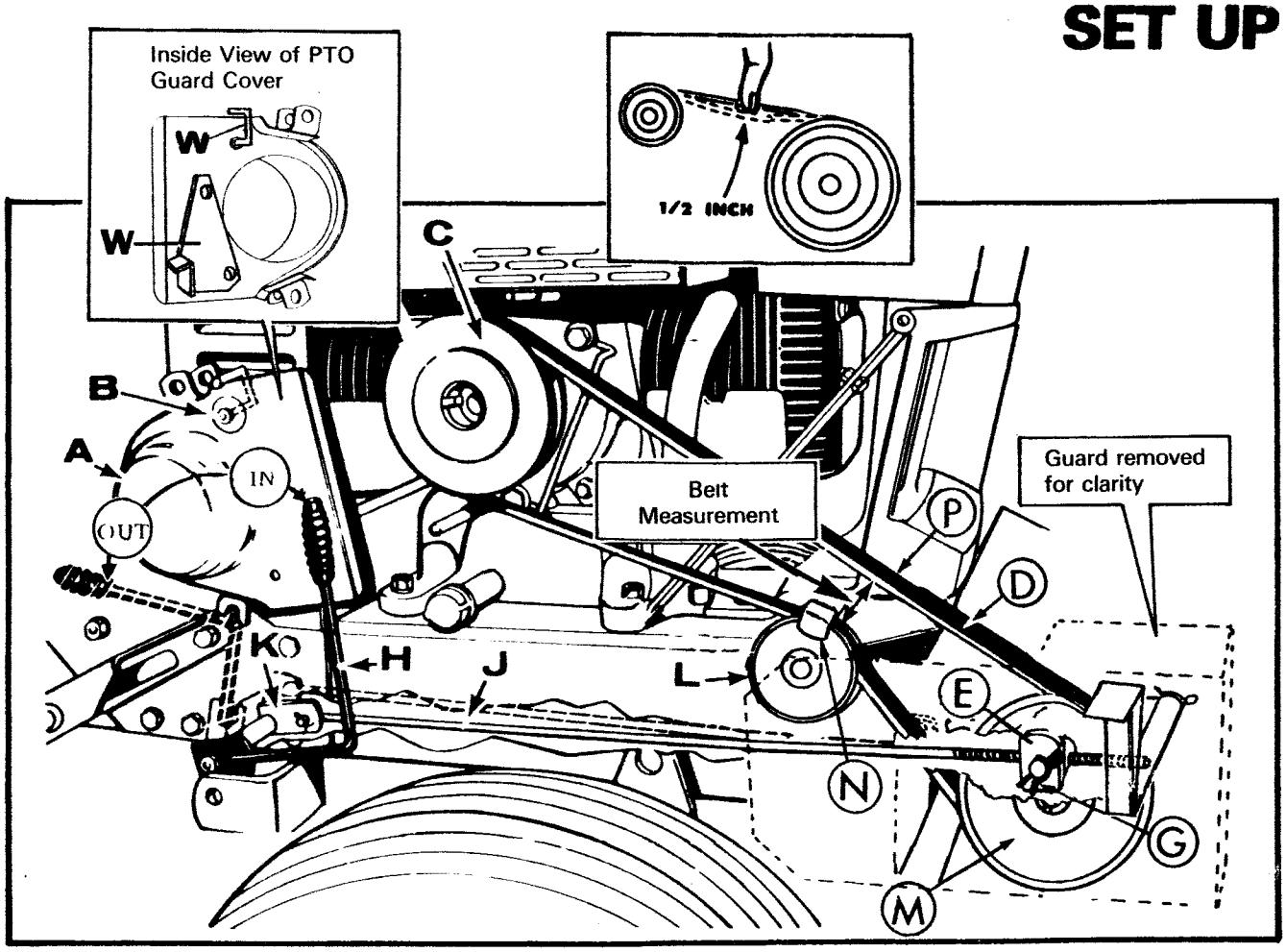
(Fig. 4)



(Fig. 5)

Step 5: (Fig. 4)

Secure clutch box in tractor frame by turning nut **(K)** clockwise until tight. Clutch box should set square in frame cavity for proper V-belt alignment.



(Fig. 6)

Step 6: (Fig. 6)

INSTALLING V BELT

1. Remove PTO guard cover **(A)** from tractor and remove rotary mower belt guide bolt. Save for future use with rotary mower.

2. Install J-bolt **(F)** in PTO guard cover in rotary mower hole as shown. Secure with 1/4"-20" nut/lock washer assembly. (J-bolt **(F)** is located in the plastic bag with the belt guide plate and hardware attached to clutch box.)

   Install belt guide plate **(W)** to inside of PTO Guard cover as shown **(Fig. 6)** by inserting 1/4 "-20" x 1/2" hex head bolts from inside through two bottom holes and securing with 1/4" nut/lock washer on each bolt. Belt guide lip should face forward as shown.

3. Loop V-belt (D) around engine pulley (C) and on top of idler pulley (L) with flat side to idler pulley.

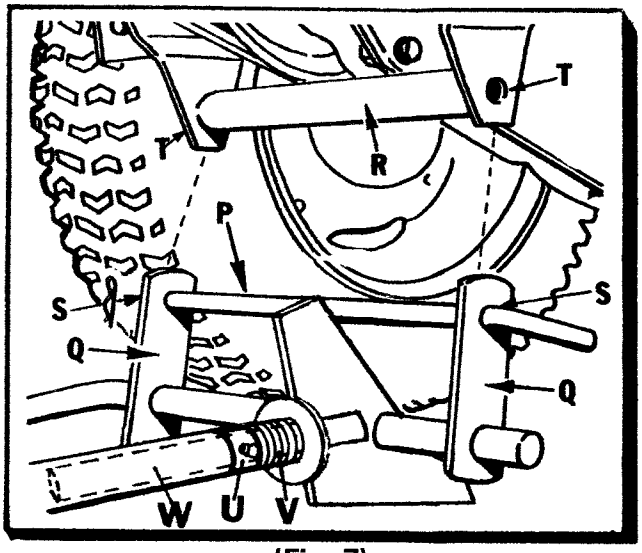
Step 7: (Fig. 6)

ATTACHING CLUTCH ROD: (Fig. 6) pusn attachment clutch lever (H) forward until end of clutch rod (J) can be inserted into mounting hole in bracket (K). The curved end of the clutch rod (J) must point toward outside of tractor. Secure rod with hair cotter pin.

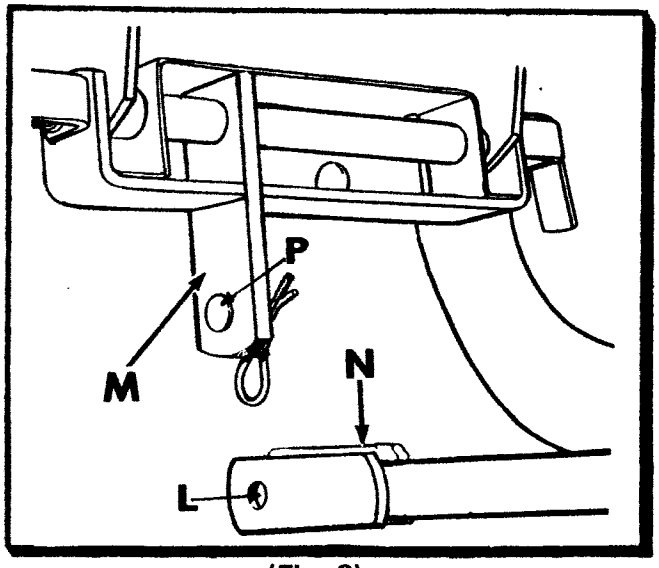
Place clutch lever **(H)** in engaged or forward position and install PTO guard **(A)** to tractor and secure with hair cotter pins.

NOTE: With clutch lever in engaged (in) position, clearance between belt strands at **(P)** on all 16 H.P. and 18 H.P. twin cylinder engine model tractors plus Models 917.2517, 2593, and 2594 series should be:
1 1/4" MINIMUM -- 1 7/8" MAXIMUM
All 1975 and prior models of 12 H.P. and 16 H.P. single cylinder engine tractors:
1 1/4" MINIMUM -- 1 5/8" MAXIMUM
Proper belt tension will allow approximately 1/2" deflection using firm finger pressure midway between belt pulleys **(C)** and **(M)**. See page 10 and 11 for V-belt adjustment procedures.

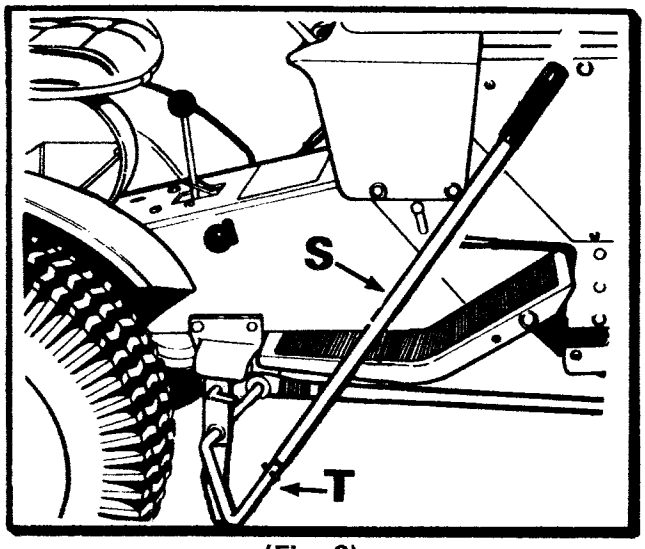
SET UP



(Fig. 7)



(Fig. 8)



(Fig. 9)

Step 8: (Fig. 7)

1. Slide lift tube over lift rod assembly **(No. 4, Fig. 1)**.
2. Place lift arm assembly under tractor with lift tube toward front of tractor.
3. Remove hair cotter pin and locating pin **(P)** from lift assembly brackets **(Q)**.
4. Raise lift assembly so the holes in brackets **(Q)** are in line with the holes **(T)** in mounting tube **(R)** as shown in **(Fig. 7)**.
5. Insert locating pin **(P)** through holes **(S)** and **(T)** to install lift assembly to tractor bracket **(R)** and secure with hair cotter pin.

Step 8 con't (Fig. 8)

1. Remove hair cotter pin and clevis pin from bracket **(M)**.
2. Raise lift tube assembly **(N)** aligning holes **(L)** with hole **(P)** in bracket **(M)**. Insert 1/2" x 1-1/2" clevis pin through holes and secure with hair cotter pin.

NOTE: Lift action of lift lever should go "over-center", just as up-stop **(P)** **(Fig. 16)** meets mounting channel of snow thrower, when in raised position. Excess lift effort will be required on lift handle to go "over-center" if up-stop meets mounting channel too early in lift pattern. Snow thrower mounting channel **(R)** should just touch up-stop **(P)** when snow thrower is in raised position.

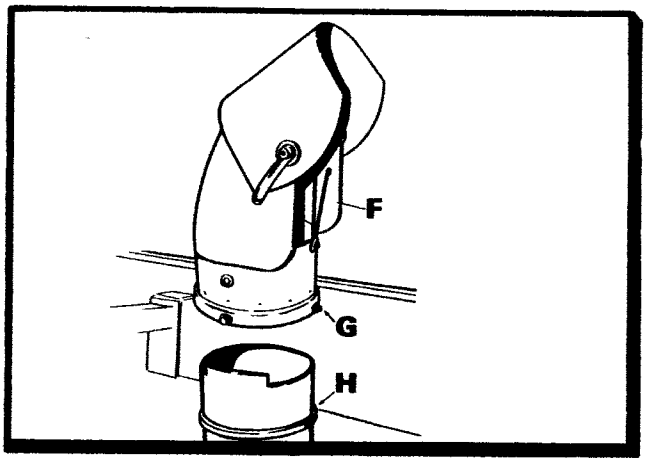
If up-stop strikes mounting channel too soon, remove set collar **(U)** from lift shaft **(W)** **(Fig. 7)** and remove spacer washers **(V)** as needed. Then, replace set collar on lift shaft **(W)**, moving set collar back against remaining washers. Tighten hex head bolt in set collar securely.

Step 9: (Fig. 9)

LIFT HANDLE

Install lift handle (S) over lift arm (T) (Fig. 9)

NOTE: On some models of cabs, the lift lever may need to be shortened, to allow adequate clearance of the operators hand between the frame of the cab and the top of the lift lever. In this case remove pin **(T)** from lift arm, which will allow lift handle to slide down to lowest position in lift arm.



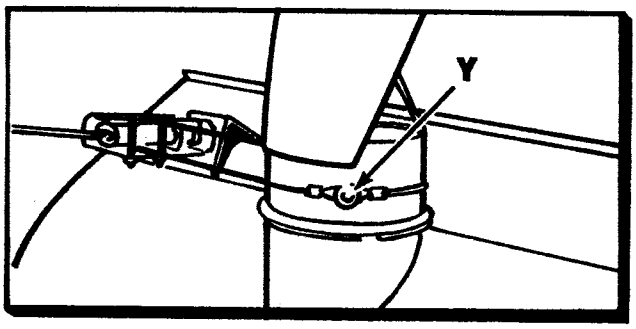
(Fig. 10)

Step 10: (Fig. 10)

INSTALLATION OF DISCHARGE CHUTE

42" SNOW THROWER

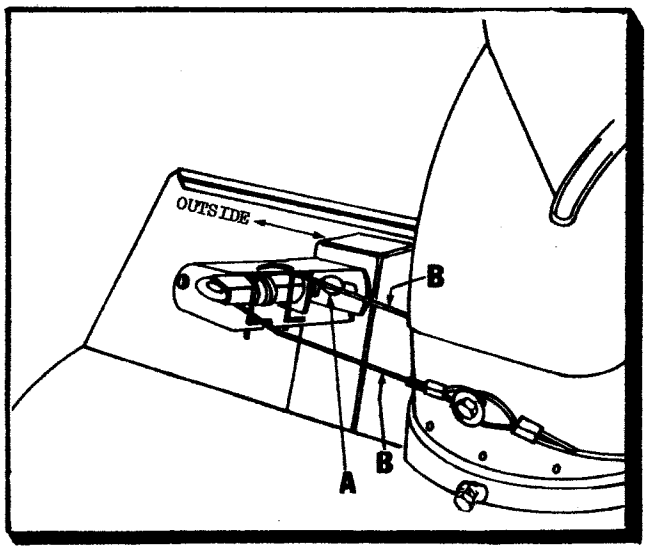
Loosen the four bolts **(G)** at the base of the discharge chute and deflector assembly. Place discharge chute over discharge stack on header. Tighten the four bolts **(G)** at the base of discharge chute making sure the bolts fit under stack ring **(H)**. These bolts retain the discharge chute on the discharge stack yet allows the discharge chute to rotate freely.



(Fig. 11)

Step 11: (Fig. 11)

Loop both ends of stack control cable over bolt **(Y)** as shown in Figure 11 .

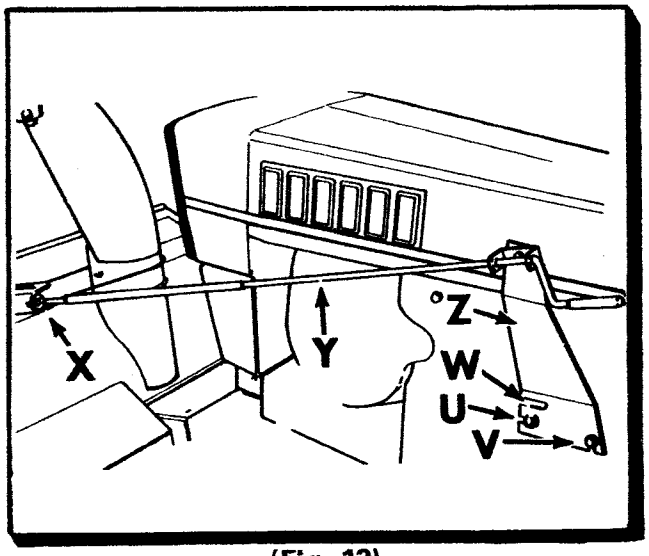


(Fig. 12)

Step 12: (Fig. 12)

Loosen bolt **(A)** on discharge chute drive assembly. Slide chute drive assembly towards the outside of header until all the slack is taken up on the control cables **(B)**. Secure by tightening bolt **(A)**.

NOTE: Cables **(B)** must always be snug.



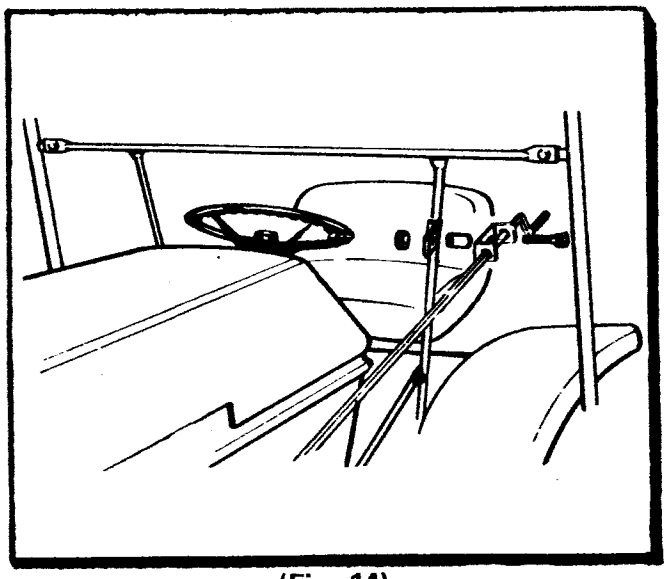
(Fig. 13)

Step 13: (Fig. 13)

INSTALLING DISCHARGE CHUTE CRANK SUPPORT

- For Tractors Without Cabs

1. Loosen tractor bolts **(U)** and **(V)** **(Fig. 13).**
2. Slide short slot in support **(Z)** under bolt and washer **(U)** and rotate to rear slot under bolt **(V).** Retighten bolts.



(Fig. 14)

Step 13 (con't) (Fig. 13 and 14)

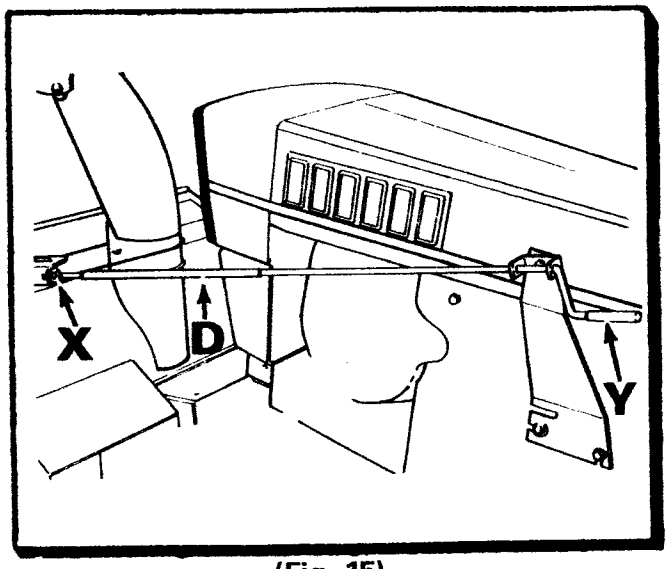
- For Tractors With Metal Cabs

1. Loosen bolts **(U)** and **(V)** **(Fig. 13).**
2. Slide long slot **(W)** under bolt and washer **(U).** Rotate support, sliding rear slot under bolt and washer **(V).**

Retighten bolts to secure support.

- For Tractors With Vinyl Cabs

1. Remove guide from crank support **(Z)** **(Fig. 13).** The The crank support will not be used, but retain locknut, spacer and bolt.
2. Insert bolt in guide and add spacer. Attach to bracket on outside of left-hand vertical cav strut as shown in **(Fig. 14).** Secure with locknut (3/8").

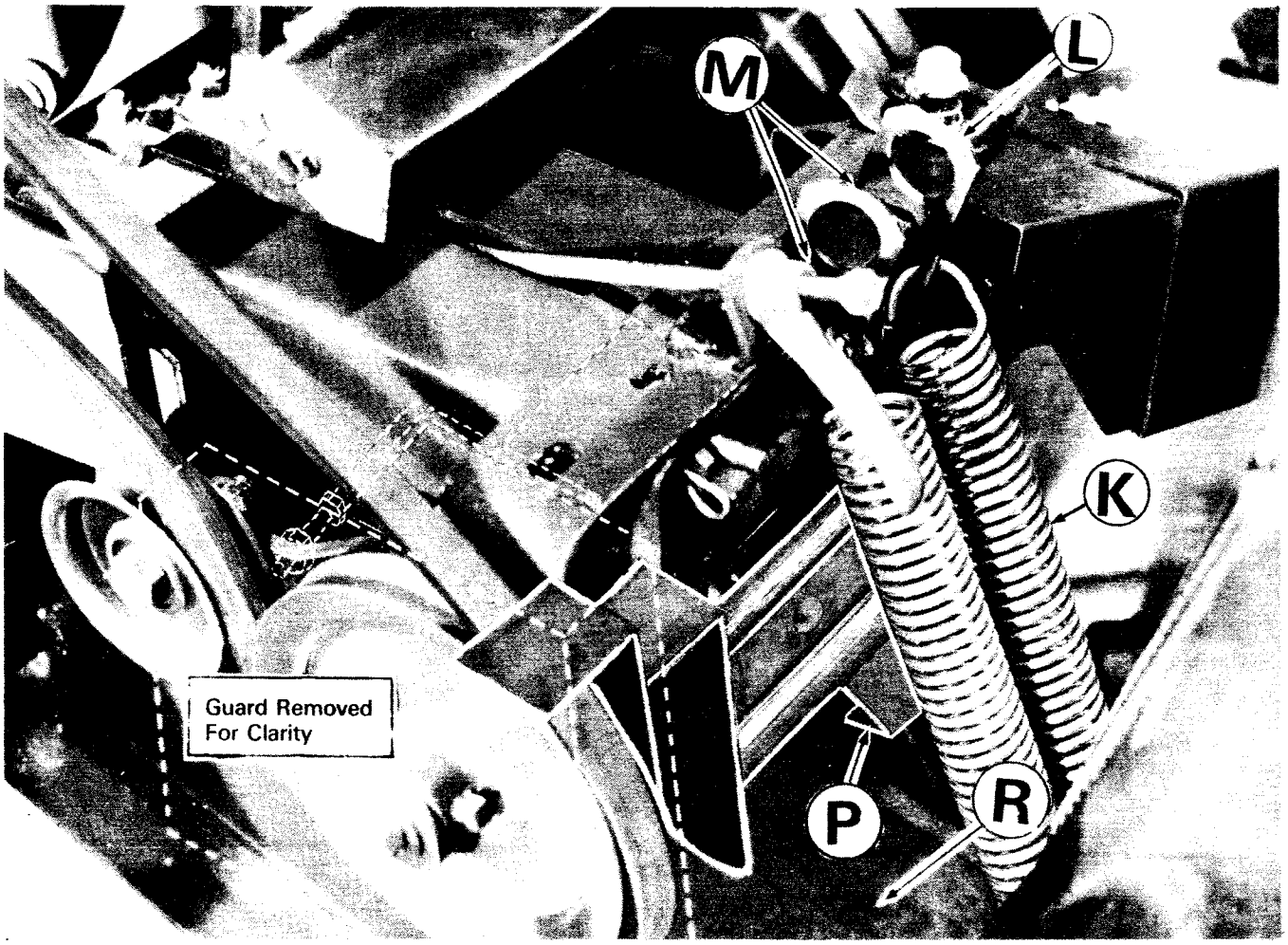


(Fig. 15)

Step 14: (Fig. 15)

INSTALLING DISCHARGE CHUTE CONTROL CRANK

Insert hook of control crank extension **(D)** into eyebolt at **(X)** **(Fig. 15).** Place control **(Y)** through guide in support and slide into control crank extension.

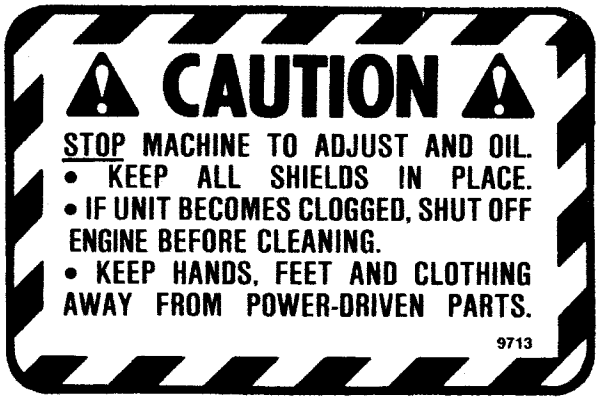


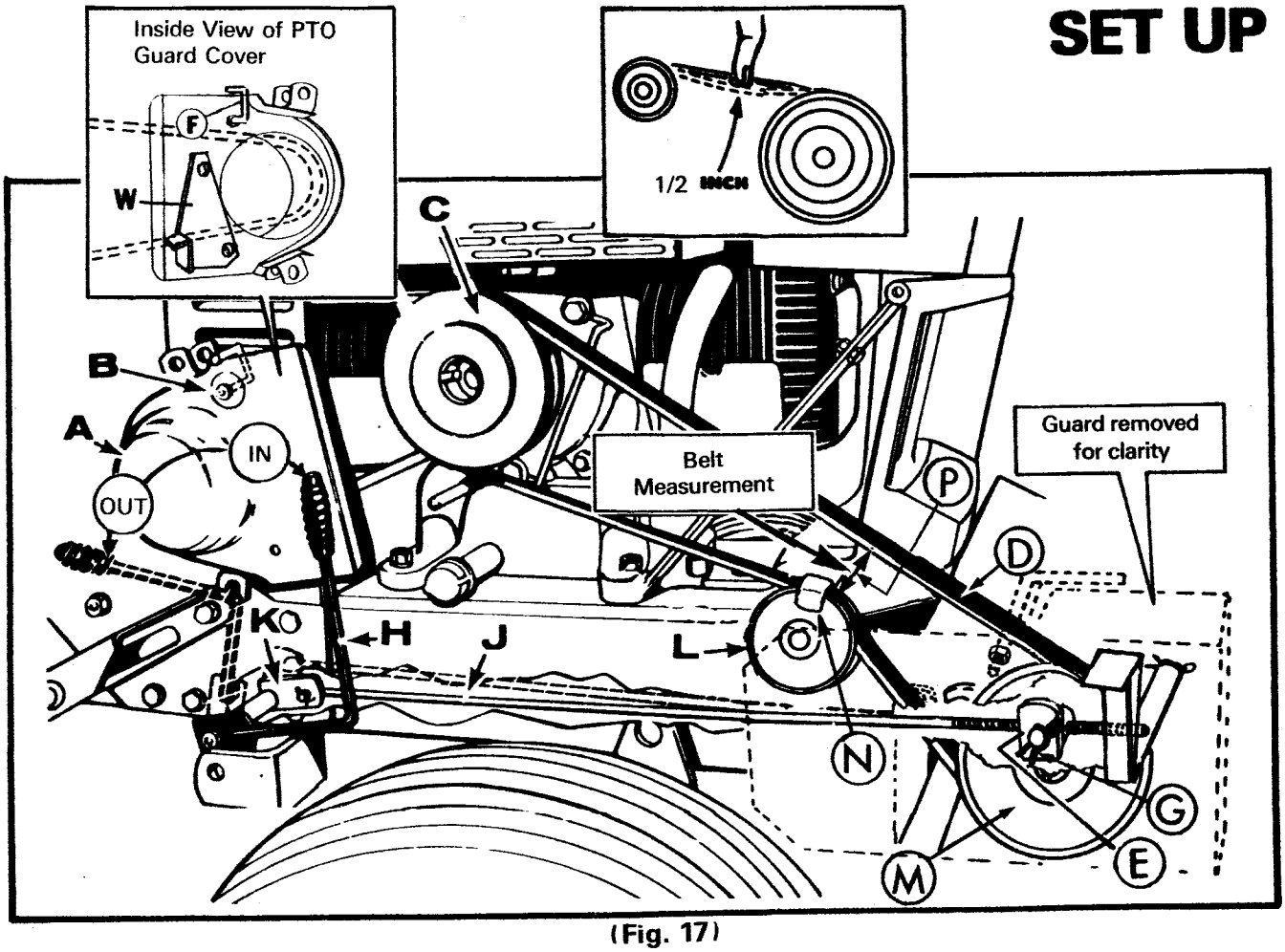
(Fig. 16)

Step 15: (Fig. 16)

INSTALLING LIFT SPRING

Raise snow thrower header up by pulling back on lift lever (S)**(Fig. 9)**. Connect lift assist springs **(K)** to clutch box by pulling up on spring clip **(L)**. Drop clips **(L)** into mounting holes **(M)** to fasten lift springs to clutch box.





(Fig. 17)

CLUTCH ROD ADJUSTMENT FOR V-BELT TENSION

ADJUSTMENT INSTRUCTIONS FOR V-BELT DRIVE:

IMPORTANT: ALL V-BELTS WILL STRETCH!!

When replacing V-belts, use only those belts specified by the manufacturer. With proper setting, belt deflection of 1/2" can then be made using firm finger pressure midway between belt pulleys.

All V-belts can stretch - most stretch occurs during first four hours of operation.

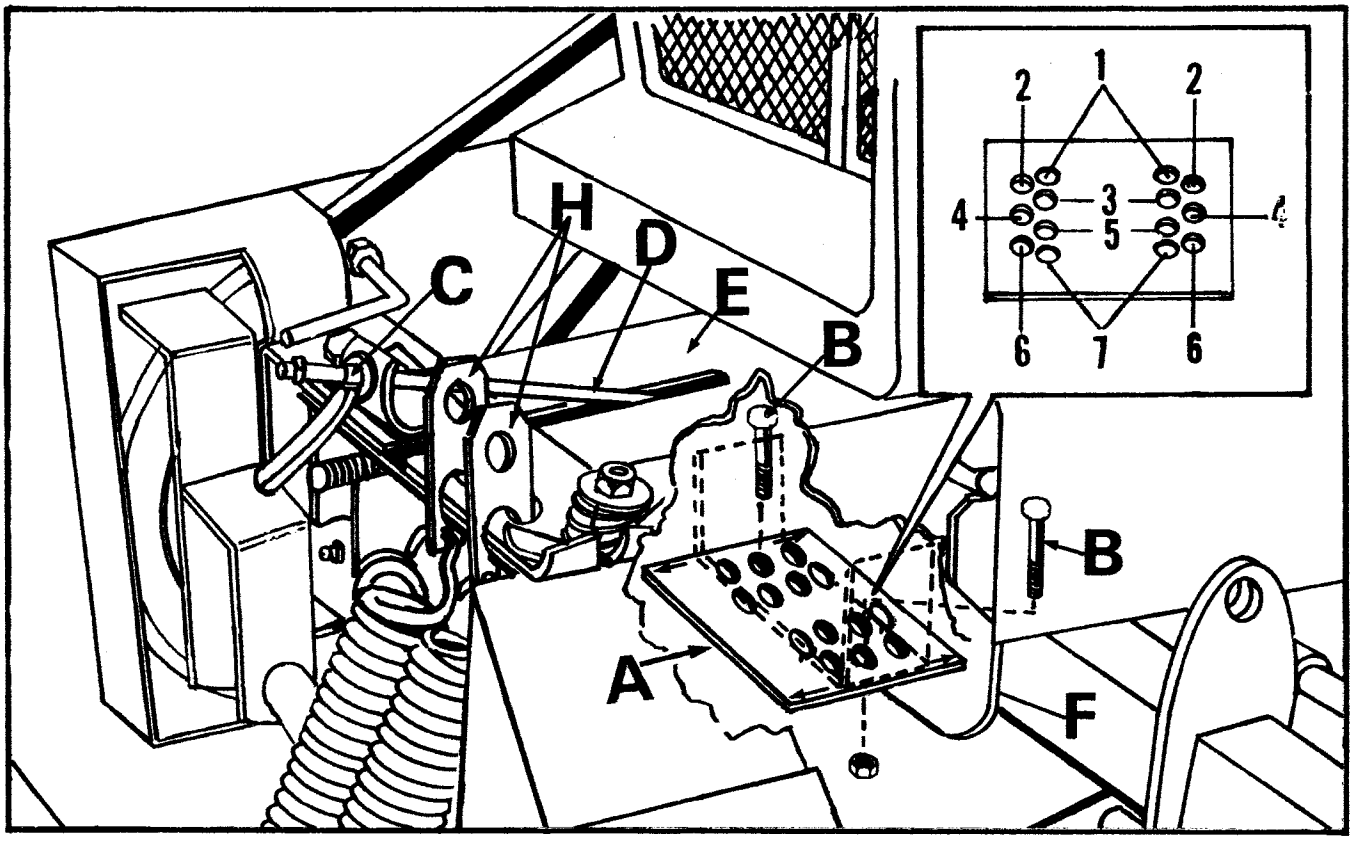
Check belt adjustment after 30 minutes use, 60 minutes, use, and every hour thereafter until the fourth hour. After four hours use, the belt adjustment should be checked prior to using snow thrower. Failure to do this will result in premature belt failure.

Most belt adjustments can be made by adjusting clutch rod trunnion (E) as needed. For added V-belt adjustment, change setting of position plate **(A) (Fig. 18)** as required to properly adjust your V-belt.

V-BELT ADJUSTMENT DIMENSIONS AND PROCEDURES

1. Tractor engine should be SHUT OFF
2. Snow thrower should be lowered to ground level.
3. Tractor adjustment clutch lever **(H)** should be in engaged (in) position when checking all **(P)** dimensions.
4. MINIMUM distance between belt strands at **(P) (Fig. 17)** should be approximately 1 1/4" (all models).
5. MAXIMUM distance between belt strands at **(P), (Fig. 17)** on all 16 H.P. and 18 H.P. twin cylinder engine model tractors plus Model 917.2517, 2593, and 2594 series -- 1 7/8" MAXIMUM.

   All 1975 and prior models of 12 H.P. and 16 H.P. single cylinder engine tractors: 1 5/8" MAXIMUM



(Fig. 18)

6. To adjust V-belt tension, move tractor attachment clutch lever to "out" position. Remove hair cotter pin **(G) (Fig. 17)**, then turn clutch rod trunnion **(E)** COUNTER-CLOCKWISE TO INCREASE belt tension. Turn clutch rod trunnion **(E)** clockwise to decrease belt tension. Replace hair cotter pin **(G)** in trunnion. Move tractor attachment clutch lever to engaged (in) position and check dimension at **(P)** for proper setting. Repeat procedure if necessary to obtain proper setting.

⚠ CAUTION ⚠

If dimension **(P)** between belt strands exceeds maximum dimensions shown, V-belt **(D)** may not declutch properly when tractor attachment clutch lever is moved to disengaged (out) position.

If belt adjustment needs exceed adjustments capability of clutch rod trunnion **(E) (Fig. 17)** moving clutch box position plate **(A)** to new position should correct the problem.

7. Plate **(A) (Fig. 18)** is normally assembled at the factory with bolts in hole pattern #4 (normally used with 16 H.P. and 18 H.P. twin cylinder engine tractors). If snow thrower is installed on other models of suburban tractors (12 H.P. or 16 H.P. single cylinder engine models) it may be necessary to remove mounting bolts **(B)** from hole pattern location #4 and place bolts in hole pattern location #3, to achieve proper V-belt adjustment. As V-belt seats into drive, it may be necessary to reset position plate **(A) (Fig. 18)** to compensate for belt stretch or wear.

8. Moving position plate **(A) (Fig. 18)** to higher bolt pattern number will increase center distance between V-belt pulley **(M)** and engine pulley **(C) (Fig. 17)** thereby permitting added belt tension, if needed. Moving position plate **(A)** to lower bolt pattern number will decrease center distance between pulleys **(M)** and **(C) (Fig. 17)** permitting decreased belt tension, if needed. Each hole pattern number represents a change of 1/4" in center distance. Hole pattern #1 is nearest to tractor axel plate **(F) (Fig. 18)**.

PROCEDURE TO ADJUST POSITION PLATE: (Fig. 18A)

1. Turn lock nut (C) counterclock-wise releasing tension. This will allow you to move clutch box for desired adjustment of plate.

2. Raise snow thrower attachment with lift lever into transport position and release lift assist spring from clutch box by pulling upward on spring brackets (H).

3. Lower snow thrower attachment to ground level.

4. Remove 5/16"-18 x 3/4" hex head bolts (B) from position plate (A).

5. Move position plate (A) backwards on clutch box assembly to increase V-belt tension. Move plate (A) forward on clutch box assembly to decrease V-belt tension. Bolt into position using 5/16"-18 x 3/4" hex head bolts and 5/16"-18 hex nuts to secure.

6. Hand tighten lock/nut (C) until clutch box (E) is securely positioned in tractor frame at new location, making certain that positioning bolt (D) is still fastened to holes in tractor frame and that position plate (A) is firmly locked against axle plate (F).

7. Raise snow thrower attachment with lift lever into transport position, inserting lift assist spring assembly (H) to clutch box as shown. Then lower snow thrower attachment to ground level.

8. To adjust clutch rod to proper setting. See paragraph 6 Fig. 17 on page 10A for instructions.

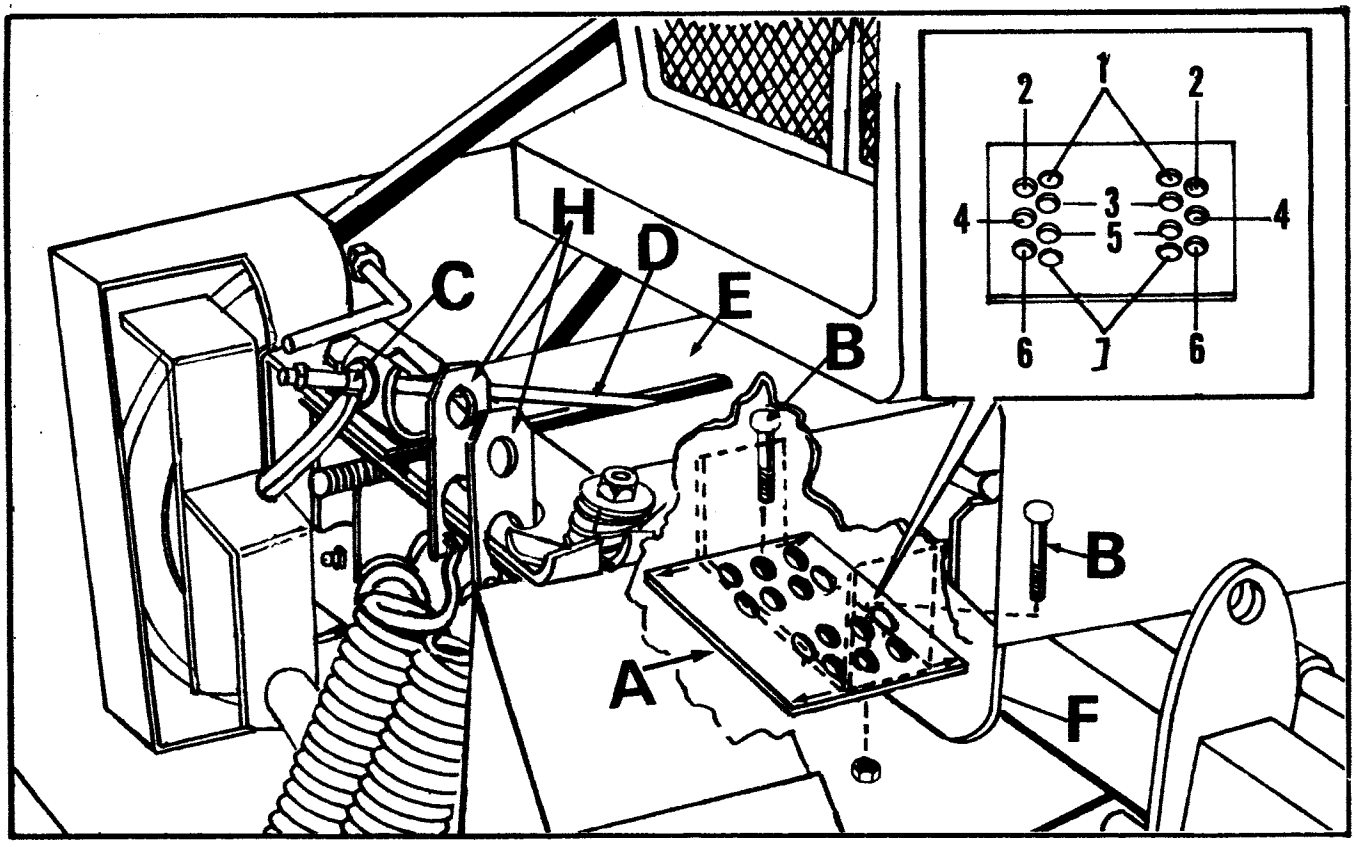


Fig. 18A

OPERATION

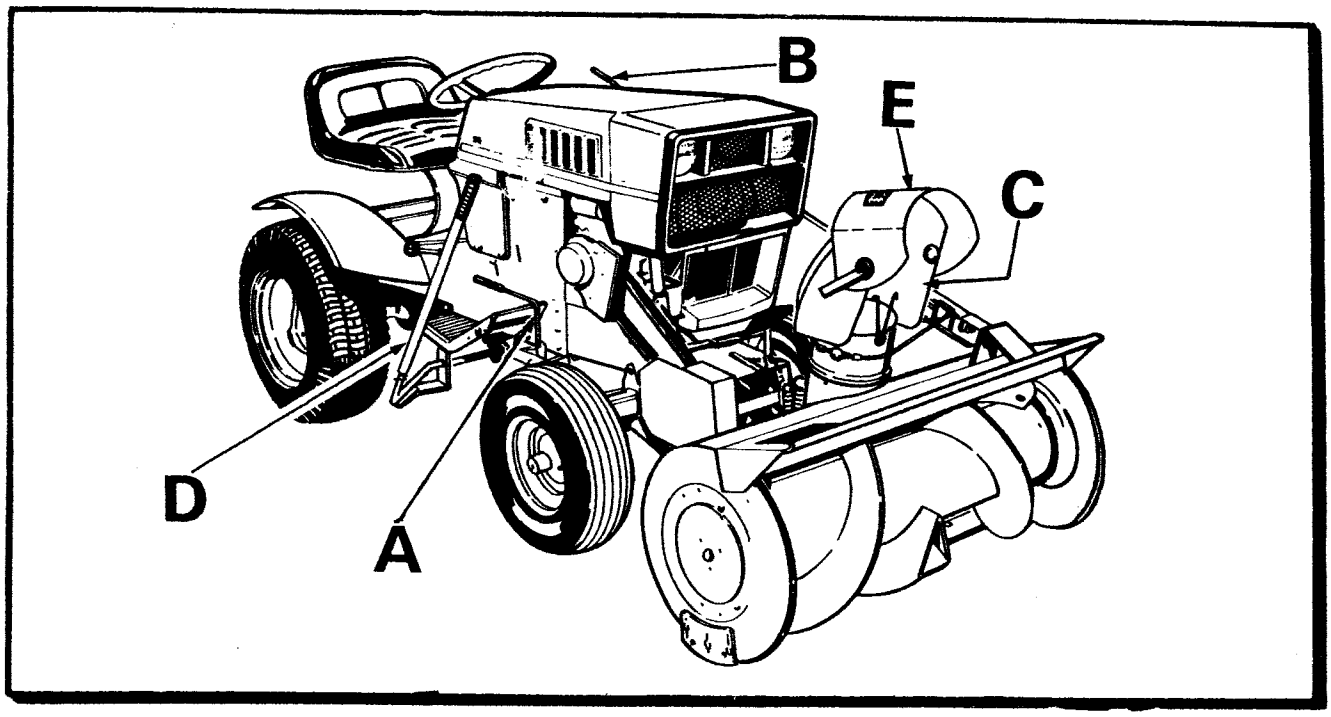


Fig. 19

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 will 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

1. Be sure that snow thrower has been properly installed and assembled. (See pages 3 through 11)
2. Become familiar with operator's manual and safety precautions.
3. Test the following controls for smooth operation **(Fig. 19)**:

A. Tractor Attachment Clutch Lever
B. Discharge Chute Control Crank
C. Discharge Chute
D. Lift Lever
E. Discharge Chute Deflector

DISCHARGE CHUTE CONTROL CRANK

The discharge chute crank is located on the left-hand side of tractor **(Fig. 19)**. Turn crank to the right to direct snow to the right-hand side and turn it to the left for the opposite effect.

NOTE: Terms left and right as used in this manual refer to the left and right side of the snow thrower when facing forward from rear of snow thrower.

STARTING AND STOPPING SNOW THROWER

Your snow thrower is driven by a V-belt from the tractor engine and is operated through the tractor attachment clutch lever **(see Fig. 19)**.

Start tractor engine and run at half throttle. Push tractor attachment clutch lever **(A)** forward to engage snow thrower. Increase throttle to full speed. To stop snow thrower, pull back on attachment clutch lever.

TO RAISE AND LOWER SNOW THROWER

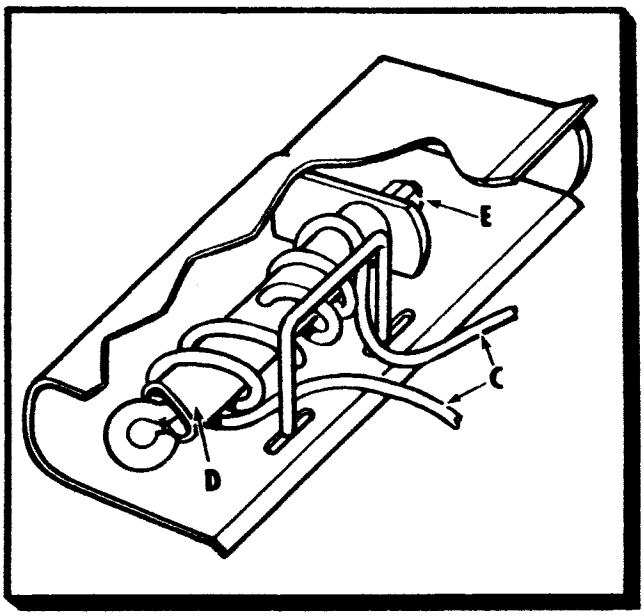
Lift lever to raise and lower snow thrower is located on right hand side of tractor **(Fig. 19)**

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.

Be certain to read all operating suggestions and instructions before using the snow thrower to obtain maximum efficiency and satisfaction. Observe all safety rules.

OPERATION



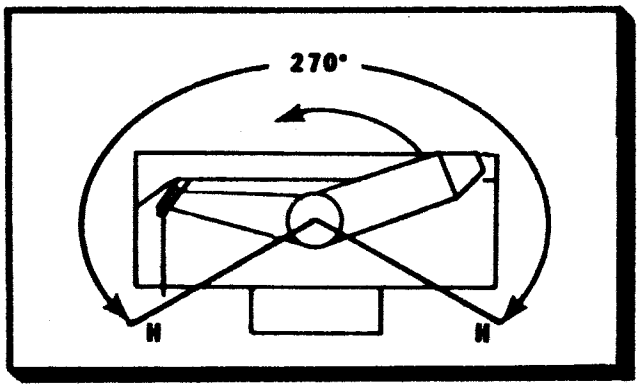
(Fig. 20)

CABLE HOOK-UP (Fig. 20))

Cable (C) is wound around tube (D) 2-1/2 turns each way; both ends of cable should be of equal length. This will allow equal angle of discharge spout in both directions.

DISCHARGE CHUTE DRIVE TUBE ADJUSTMENT Figure 20.

If discharge chute will not hold its position and tends to rotate, adjust lock nut (E) on end of discharge chute tube eye bolt. Tighten lock nut 1/8 turn and check rotation of drive tube 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



(Fig. 21)

The snow thrower has a discharge radius of 270 degrees and is controlled by the discharge chute rod. The discharge chute stop bolt will prohibit rotation beyond points (H) (Fig. 21) .

DEFLECTOR

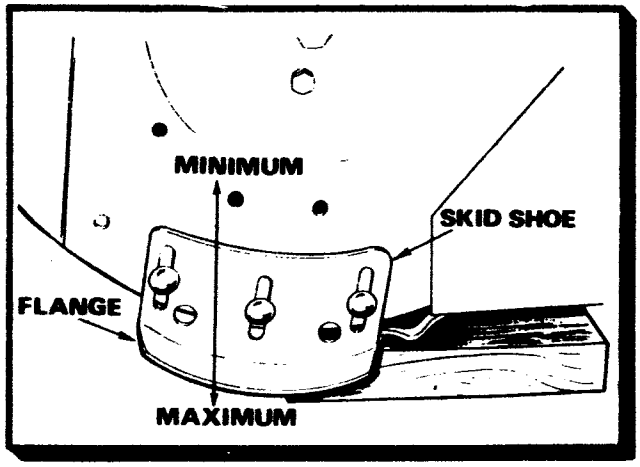
The deflector mounted on top of the discharge chute determines the distance snow is thrown. Moving top of deflector **down** decreases distance of throw,while raising deflector increases it. The operator must dismount tractor to make this adjustment. Disengage tractor attachment clutch and shut off tractor engine before making adjustment.

CAUTION

When making any adjustment to snow thrower, turn tractor engine off.

SKID SHOE ADJUSTMENT

The skid shoe mounted on each side of the auger housing adjusts the distance the scraper blade is raised from 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 stone 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 inside of the housing. Skid shoes should be removed and then installed with the skid shoe flange to the outside, prior to starting operation if you desire to scrape surfaces closely.



(Fig. 22)

TO ADJUST SKID SHOES FIG. 22

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. Move the skid shoes to the desired position and retighten nuts. Adjust both skid shoes to the same height to keep the scraper blade level.

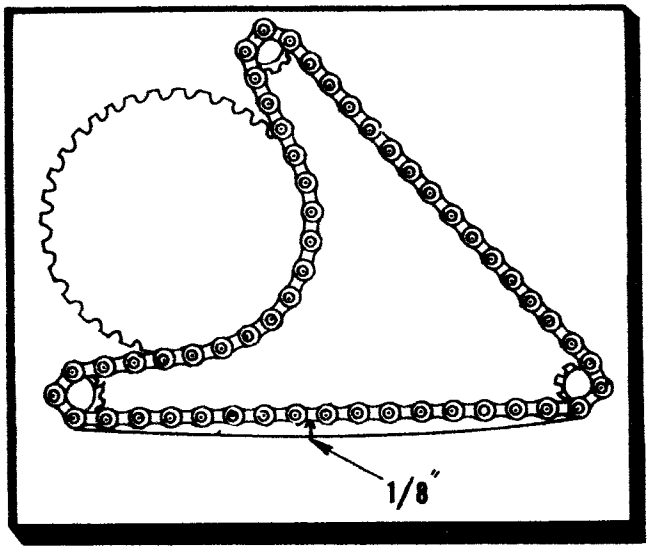
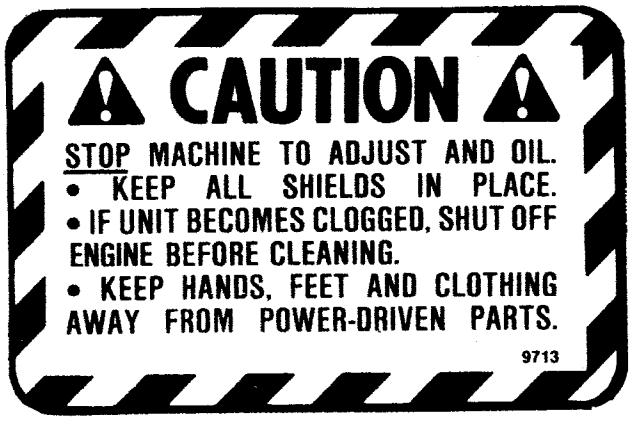


Fig. 23

OPERATION

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 bolt. **(See Fig. 24)** Chain should have approximately 1/8" slack. **(See(Fig. 23).**

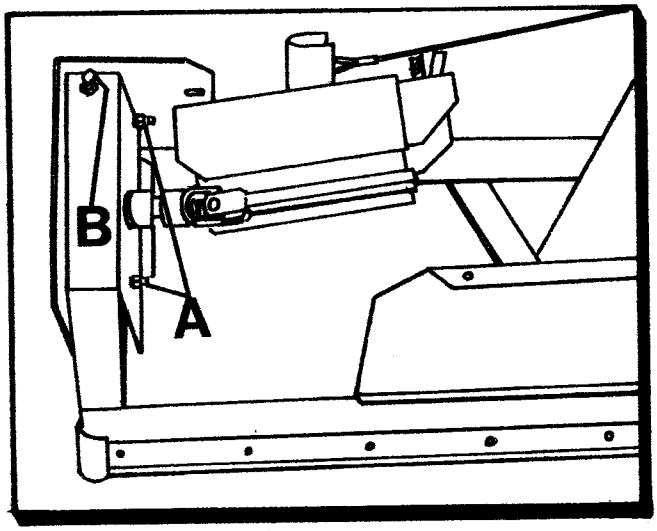


ADJUSTING AUGER CHAIN

1. Disengage tractor PTO and shut off tractor engine.
2. Loosen two locknuts **(A)** and jam nut on adjusting bolt **(B)**.
3. To increase tension, turn adjusting bolt **(B)** clockwise. To decrease tension, turn bolt counterclockwise.
4. When proper tension is reached, retighten jam nut on adjusting bolt and locknuts **(A)**.

NOTE:

Do not over tighten chain. A correctly adjusted chain will have a slight amount of slack. An over tightened chain will result in early failure of auger drive chain.



(Fig. 24)

SCRAPER BLADE AND SKID SHOES

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

NOTE: New scraper blade and skid shoes may be purchased when original equipment is worn. See repair parts list.

⚠ CAUTION ⚠

If snow thrower becomes plugged with snow or jammed due to hitting a foreign object, 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 foreign object and repair any damage to snow thrower before continuing.**
5. **Connect spark plug wire(s).**
6. **Resume operation.**

OPERATION

The snow thrower controls are conveniently located at the operator's position on the tractor. By engaging the tractor attachment clutch lever, 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 direction, 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 in the lowest gear 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 in the lowest gear. 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 AND WHEEL WEIGHTS

The use of tire chains and wheel weights is recommended for extra traction.

Wheel weights and tire chains can be ordered from your closest Sears Store.

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 auger or elbow 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 wire(s). Never attempt to clear snow thrower at any time with tractor engine running.

METHODS

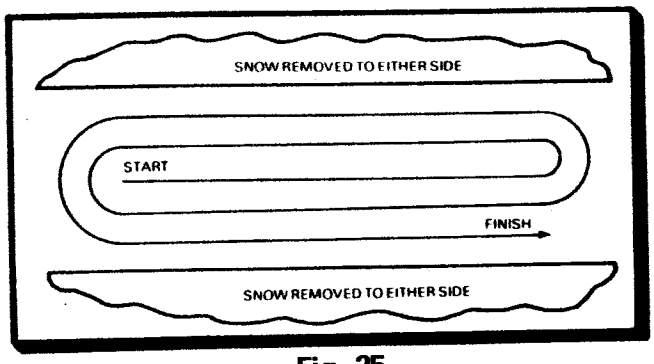


Fig. 25

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° to maintain direction of snow throw into the same area.

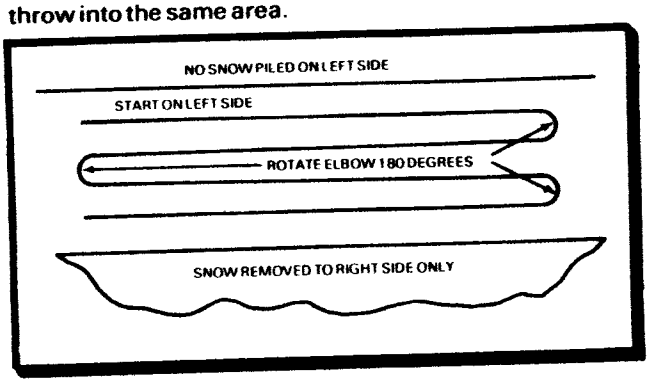


Fig. 26

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.

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.
   (See page 18)
4. Store snow thrower in a dry place.

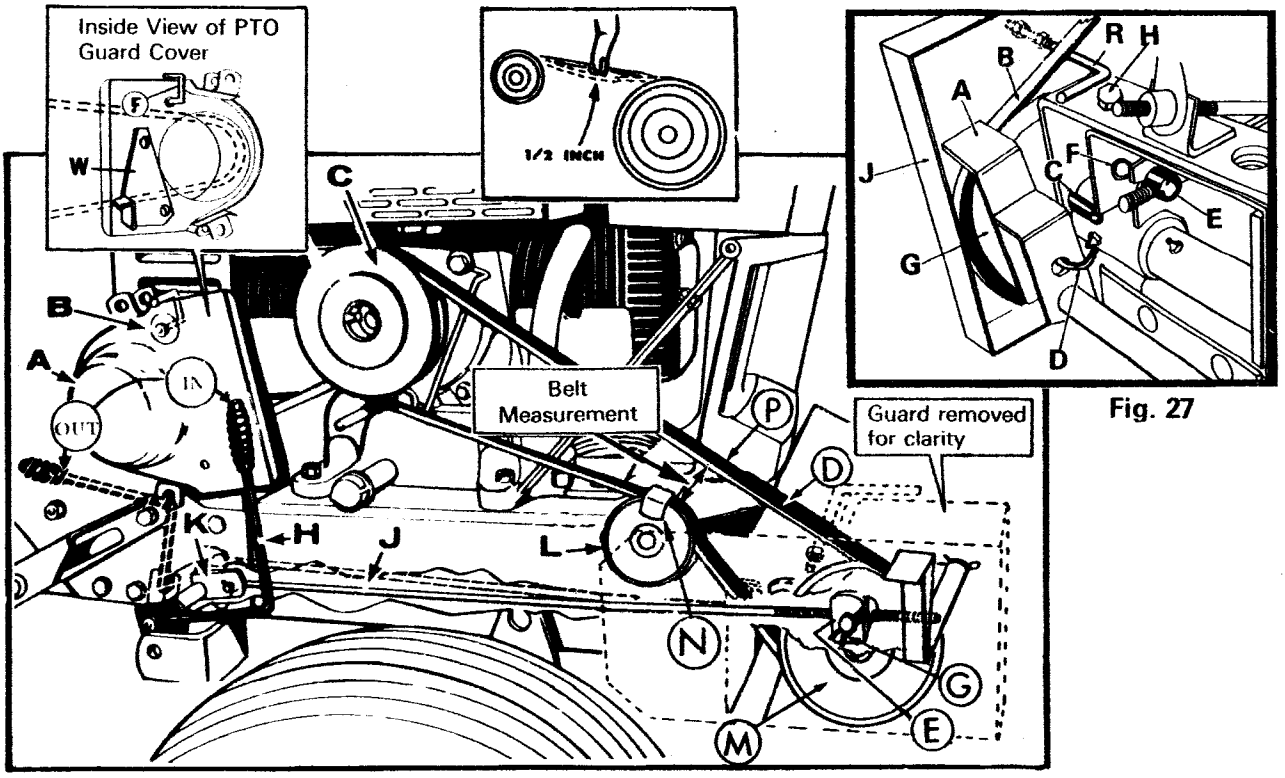


Fig. 27

Fig. 28

INSTALLATION OF NEW V-BELT

When it is necessary to install a new V-belt onto the snow thrower, make certain that only those belts specified by the manufacturer are used. To install new V-belt proceed as follows.

1. Make certain that snow thrower is lowered to the ground and that the tractor engine has been shut off. Remove spark plug cable(s). Tractor attachment clutch lever should be in (out) disengaged position.

2. Remove PTO belt guard cover **(A)** **(Fig. 28)** from engine pulley.

3. Loosen belt guide bolt **(R)** **(Fig. 27)**, then remove V-belt guard assembly **(J)** from snow thrower by removing 3/8"-16 x 1" hex head bolt (H) from pulley guard and remove guard from snow thrower.

4. Remove old V-belt from engine pulley, then pull brake arm **(A)** forward so that old belt may be removed from driven pulley **(G)**.

INSTALLING NEW V-BELT

5. To install new V-belt, pull brake arm assembly **(A)** forward so that V-belt can be threaded over 6" diameter driven pulley **(G)**.

Idler pulley assembly **(L)** is equipped with belt guide **(N)**. It will be necessary to remove belt guide **(N)** from pulley assembly so that belt can be threaded under belt guide **(N)**, but over pulley **(L)** as shown **(Fig. 28)**.

Install V-belt guard assembly **(J)** onto snow thrower making certain that belt guide **(R)** **(Fig. 27)** is positioned between belt strands as shown before tightening belt guide nut to hold belt guide in position as shown.

6. Push tractor attachment clutch lever forward to "in" position.

7. Install PTO guard cover **(A)** over tractor engine pulley making certain that V-belt strands are running between belt guides in PTO cover, as shown **(Fig. 28)**.

8. Adjust V-belt tensions as outlined in V-belt instructions, Page 10 and 11.

9. Move attachment clutch lever to (out) (disengaged) position.

NOTE: Depending upon adjustments made previously, it may be necessary to change hole pattern setting in position plate **(A)** **(Fig. 18)**, see Page **(11)** for instructions.

CAUTION

If snow thrower auger does not stop within 5 seconds after the tractor attachment clutch lever has been moved to the "out" (disengaged) position, check unit for problems and repair before operating unit.

INFORMATION ON SNOW THROWER CLUTCH AND BRAKE ASSEMBLY (Fig. 27) FOR YOUR SEARS NO. 260052 SNOW THROWER ATTACHMENT

By moving tractor attachment clutch lever into "on" position, the clutch rod and trunnion assembly (E) will rotate brake pawl (C) forward against brake arm (A) away from V-belt (B) to permit free rotation of V-belt pulley (G).

When tractor attachment clutch lever is pulled back to disengage drive (out position) this will cause brake pawl (C) to rotate back away from brake arm (A), which will allow brake spring (D) to pull brake arm (A) onto V-belt (B) to assist in stopping V-belt drive within approximately 5 seconds.

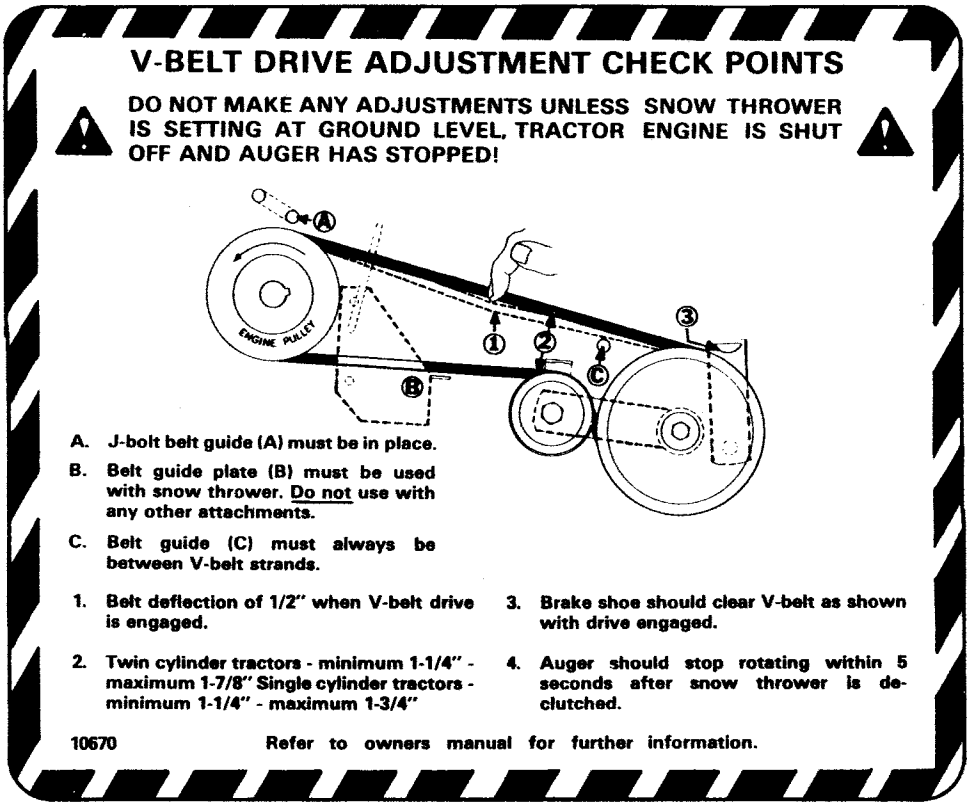
CAUTION

If snow thrower auger does not stop within 5 seconds after the tractor attachment clutch lever has been moved to the "out" (disengaged position) check unit for adjustments or worn parts and repair before operating unit.

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 drive 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 or cord construction that will not perform satisfactory in a V-belt clutch/brake system and could in some cases cause a malfunction in the operation of the machine.

In the interest of safety no machine should be operated which is not performing properly.



LUBRICATION

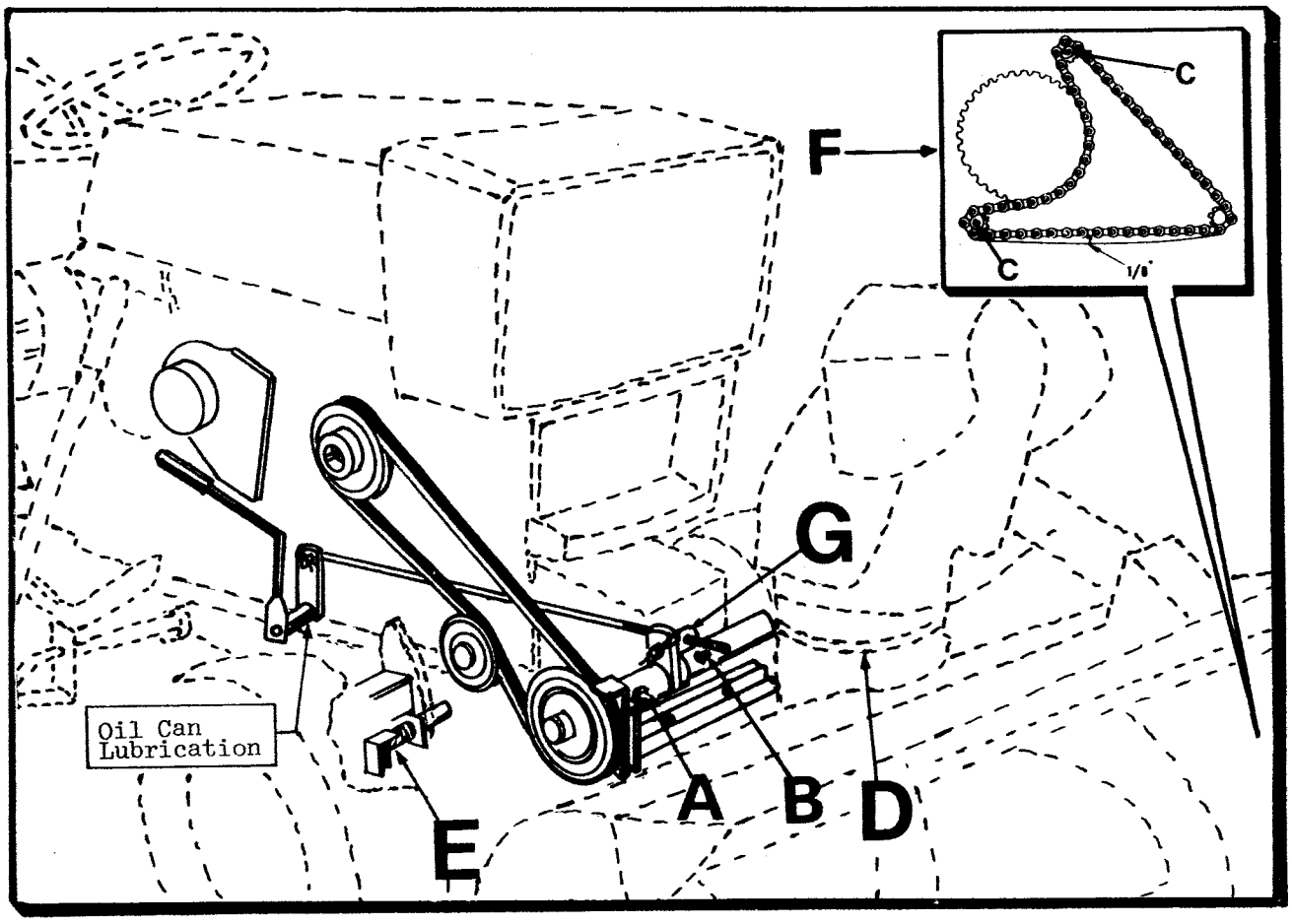


Fig. 29

CAUTION: Before servicing snow thrower attachment, disengage power, shut off engine, make sure auger has stopped revolving, and disconnect engine spark plug wire(s).

GREASE EVERY TEN HOURS

A. Pivot Tube Housing

B. Jackshaft Housing

C. Idler Sprockets

OIL LUBRICATION

Every twenty hours of operation use any Multi-Purpose engine oil.

D. Discharge Chute

E. Mounting Points

F. Auger Chain

PRIOR TO USE EACH SEASON.

G. Clutch Rod Trunnion

REPAIR PARTS LIST

DO NOT ORDER REPAIR PARTS FROM ILLUSTRATIONS ONLY.

ALSO REFER TO THE DESCRIPTION OF THE PART.

Always order repairs by number and give the description of the part, where used, and whether it is a right or left hand part. Right or left parts can be determined by standing back of the machine and looking in the direction of travel. Those parts on the right are right hand parts and ones on the left are naturally left hand ones. The model and serial numbers are also important.

We reserve the right to change specifications on design at any time without incurring the obligation to install such changes on machines previously manufactured.

DIRECTIONS FOR ORDERING PARTS:

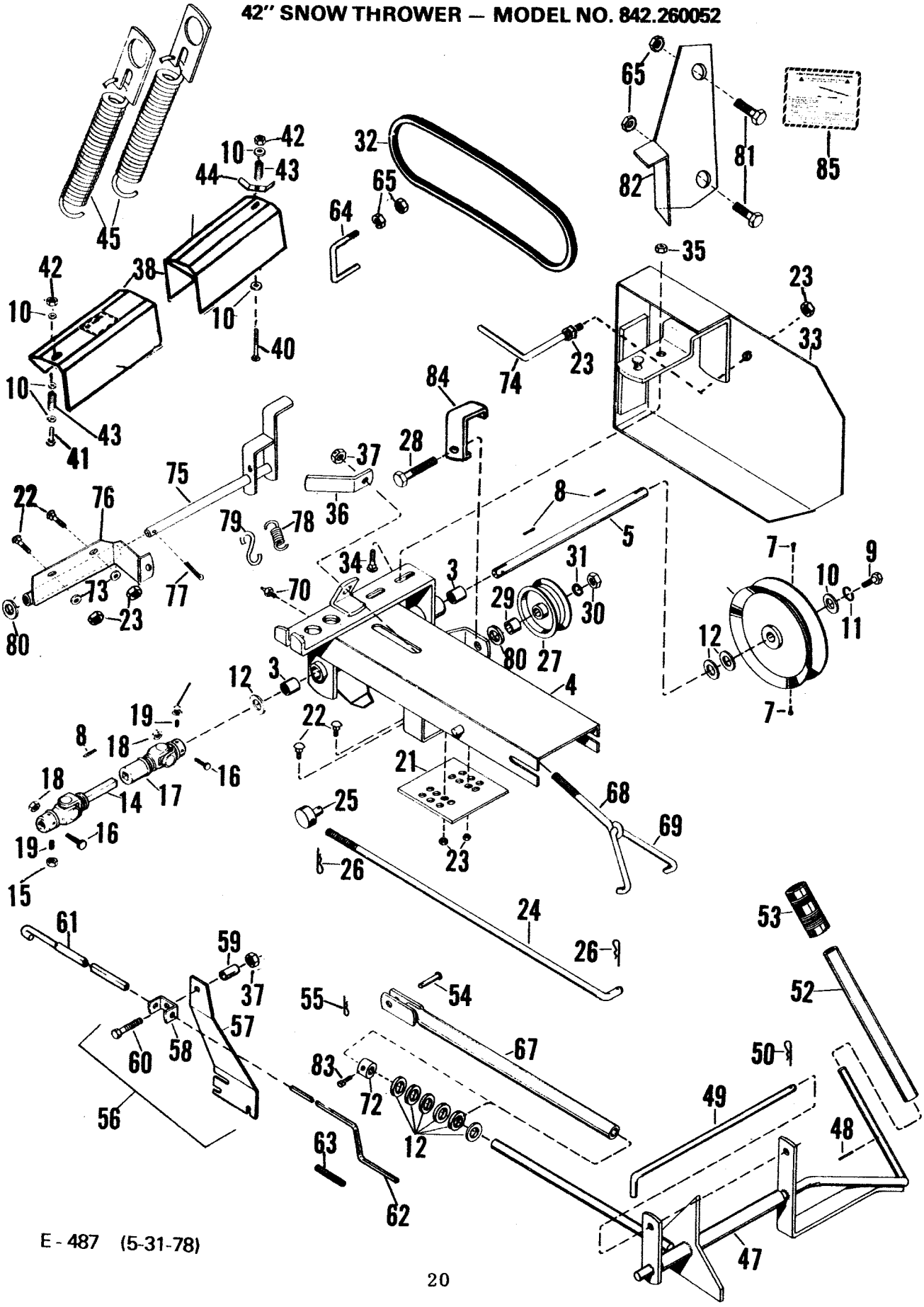
Select any parts needed from exploded view illustration. Obtain correct part number and part name from parts list. **DO NOT USE THE REFERENCE LETTER OR NUMBER WHEN ORDERING PARTS.**

Always order parts by part number. When ordering parts, be sure to include the following information:

1. Part number and part name shown on parts list
2. Quantity desired
3. The model number
4. Order parts from: Nearest SEARS Store

INDEX TO UNITS

42" SNOW THROWER — MODEL NO. 842.260052

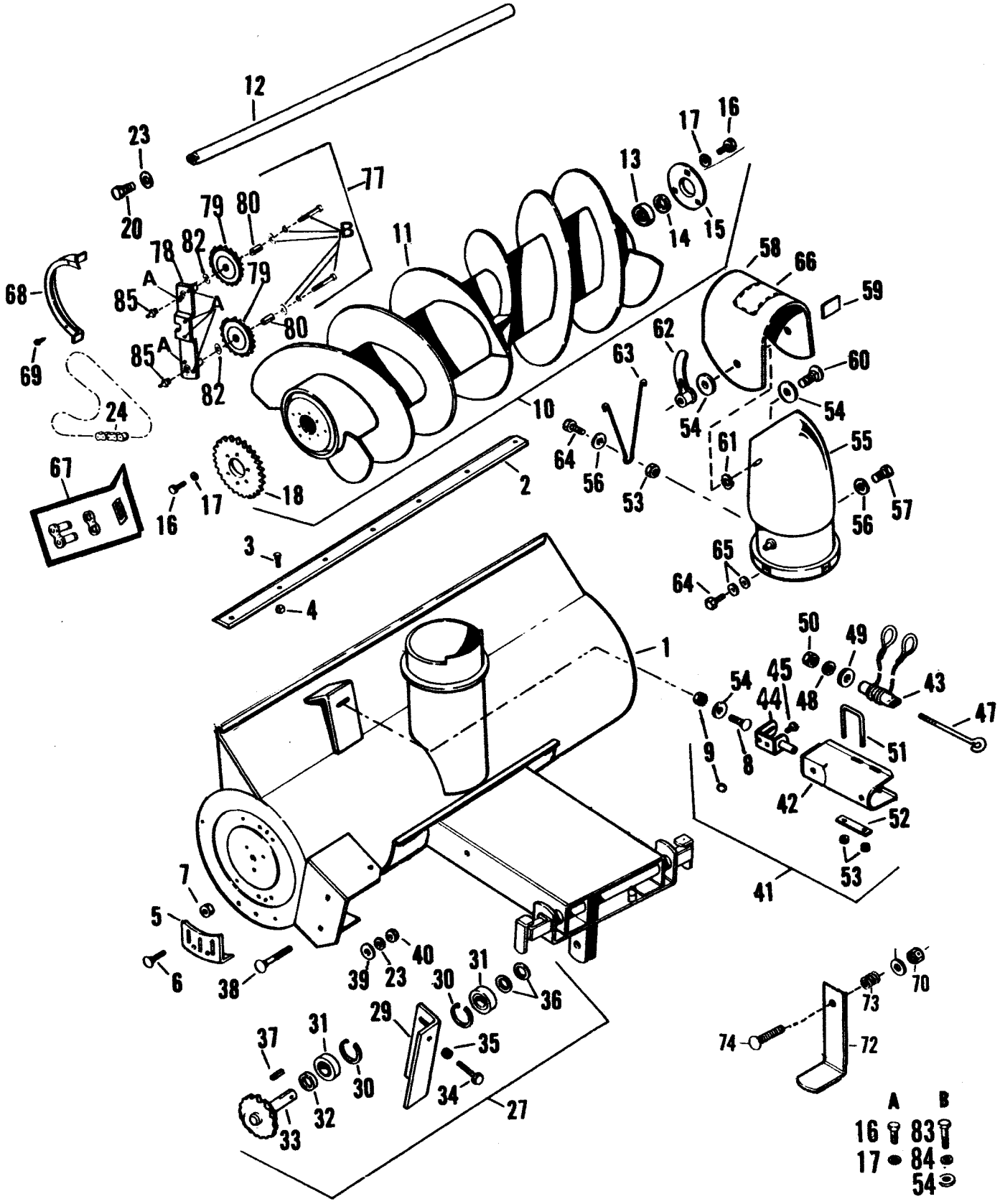


E - 487 (5-31-78)

42" SNOW THROWER — MODEL NO. 842.260052

Ref. No.	Part No.	Description	No. Req.
3	8689	Bearing - Needle	2
4	10513	Assy.-Jackshaft Mounting Frame	1
5	10524	Jackshaft	1
6	3035	Pulley	1
7	*GM142671	Screw-Set 5/16-18 x 1/2 Sq.	2
8	3259	Key - 3/16 Sq. x 1	3
9	STD 523710	Bolt - 3/8-16 x 1	1
10	*GM120388	Washer - 7/16 x 1 x .083	6
11	*GM120382	Washer - 3/8 Med.	1
12	3396	Washer - 49/64 x 1-1/2 x .0598	9
14	9177	PTO Shaft 1/2 - (Male)	1
15	STD 541075	3/4 - Hex Nut	2
16	STD 522520	Bolt - 1/4-20 x 2 Hex.	2
17	8955	PTO Shaft - 1/2 - (Female)	1
18	STD 541025	Nut - 1/4-20	2
19	*GM102594	Screw-Set - 3/8-16 x 5/8	2
21	10525	Plate - Locating	1
22	STD 523107	Bolt - 5/16-18 x 3/4	4
23	*GM271184	Nut/Lockwasher - 5/16-18	5
24	10526	Rod - Clutching	1
25	9492	Anchor - Clutch Rod	1
26	3090	Pin - 5/64	2
27	3042	Assy.-Idler Pulley	1
28	STD 525020	Bolt- 1/2-13 x 2	1
29	1094	Spacer	1
30	STD 541050	Nut - 1/2-13	1
31	STD 551050	Washer - 1/2 Med.	1
32	10500	V-Belt	1
33	10527	Assy.-Pulley Cover	1
34	STD 523710	Bolt - 3/8-16 x 1	1
35	*GM271190	Nut/Lockwasher Assy. 3/8-16	1
36	8198	Strap-Locking	1
37	STD 541031	Nut - 5/16-18	2
38	11276	Kit Repair (Cover PTO)	1
40	STD 523727	Bolt - 3/8-16 x 2-3/4	1
41	STD 523715	Bolt - 3/8-16 x 1-1/2	1
42	STD 541037	Nut - 3/8-16	2
43	5681	Spring	2
44	10397	Bracket - Wing	1
45	10563	Assembly - Spring & Bracket	2
47	10531	Assy.-Lift Lever	1
48	*GM455481	Pin - Roll	1
49	9325	Pin - Locating	1
50	STD G24010	Pin - Hair Cotter	1
52	9833	Handle - Lift	1
53	3339	Grip - Handle	1
54	3433	Pin	1
55	STD 624010	Pin	1
56	9703	Assy.-Crank Rod Supp.	1
57	9704	Bracket - Crank Rod	1
58	9097	Guide - Crank Rod	1
59	3027	Spacer - Crank Rod	1
60	STD 523120	Bolt - Crank Rod Support 5/6-18 x 2	1
61	8206	Assy.-Crank Rod Extension	1
62	8203	Rod - Crank	1
63	8204	Grip - Handle	1
64	10545	Rod - Belt Popper	1
65	*GM271178	Nut/Lockwasher Assy. 1/4-20	4
NP	11589	Manual - Instruction and Repair	1
67	10539	Assy.-Lift Tube	1
68	10530	Eye Bolt	1
69	10560	Hook	1
70	5074	Fitting - Grease	1
72	10575	Collar Lift	1
73	STD 551031	Washer - 5/16 x 3/4 x .065	2
74	10577	Assembly - Rod Belt Popper	1
75	10568	Assembly - Belt Brake	1
76	10564	Brake Mounting Bracket	1
77	STD 561210	Cotter Pin	1
78	10274	Spring	1
79	3247	S Hook	1
80	STD 551050	Washer - 1/2 Flat	2
81	STD 522505	Bolt - 1/4-20 x 1/2 Hex Hd	2
82	10583	Plate	1
83	*GM102870	Set Screw - 1/4-20 x 1/2 sq. hd.	1
84	10562	Strap - Belt Popper	1
85	10607	Belt Adjustment Decal	1

42" SNOW THROWER — MODEL NO. 842.260052



42" SNOW THROWER — MODEL NO. 842.260052

Ref. No.	Part No.	Description	No. Req.
1	10490	Assy. - Header Housing	1
2	6643	Blade - Scraper	1
3	7090	Bolt - 1/4-20 x 5/8 Carr.	9
4	*GM271178	Nut/Lockwasher Assy. 1/4-20 Hex.	9
5	3045	Shoe - Skid	2
6	7953	Bolt - 5/16-18 x 3/4 Carr.	6
7	*GM271184	Nut/Lockwasher Assy. 5/16-18 Hex.	1
8	STD 533710	Bolt - 3/8-16 x 1 Carr.	1
9	*GM271190	Nut/Lockwasher Assy. 3/8-16 Hex.	20
10	8391	Assy. - Auger (Comp)	1
11	8176	Assy. - Auger	1
12	8181	Shaft - Auger	1
13	5474	Bearing - Auger	2
14	4143	Washer - Auger	2
15	5473	Flange - Bearing	1
16	STD 523601	Bolt-5/16 - 18 x 5/8 Hex.	19
17	STD 551131	Washer - 5/16 Med. Lock	16
18	8287	Sprocket - Auger (35 tooth)	1
19	STD 523707	Bolt-3/8-16x3/4 Hex. Head	2
20	STD 525012	Bolt - 1/2-13 x 1-1/4 Hex.	2
21	8185	Plate - Auger Mounting	1
23	STD 551150	Washer - 1/2 Med. Lock	4
24	5101	Chain - Auger Drive	1
27	9125	Jackshaft Housing Bearing (Comp)	1
29	9127	Assy.-Jackshaft Housing	1
30	4610	Snap - Ring	2
31	4611	Bearing - Jackshaft	2
32	9175	Spacer	1
33	9126	Assy.-Jackshaft and Sprocket	1
34	9132	Bolt - 5/16-18 x 2 Self Tapping	1
35	STD 541231	Nut - 5/16-18 Half Hex.	1
36	5429	Washer - 49/64 x 1-1/16 x .0598	AR
37	STD 580103	Key - 3/16 Sq. x 1	1
38	*GM126803	Bolt - 1/2-13 x 3-1/2 Carr.	2
39	STD 551043	Washer - 7/16 Flat	1
40	*GM120378	Nut - 1/2-13 Lt. Hex.	2
41	9096	Assy. - Stack Drive Bracket (Comp)	1
42	9030	Assy. - Stack Drive Bracket	1
43	8725	Assy.-Cable, Tube and Sleeves	1
47	3955	Eye Bolt - Drive Tube	1
48	4772	Spring Washer 13/32 x 13/16 x 5/64	3
49	*GM120388	Washer - 3/8 Flat 7/16 x 1 x .083	1
50	STD 541437	Nut - 3/8 Hex. Lock	2
51	8236	U-Bolt	1
52	8299	Strap - Friction	1
53	4119	Nut - 1/4-20 Hex. Lock	3
54	4506	Washer - Flat 13/32 x 1-1/2 x .109	5
55	8585	Assy.-Elbow & Pivot	1
56	3903	Washer - Concave Tooth	2
57	STD 552505	Bolt - 1/4-20 x 1/2 Hex.	1
58	8197	Deflector - Elbow	1
59	6558	Molding - Deflector	1
60	STD 533110	Bolt - 5/16-18 x 1 Carr.	2
61	STD 551031	Washer 5/16	2
62	8198	Strap - Locking	2
63	3076	Hook - Lift Spring	1
64	STD 522506	Bolt - 1/4-20 x 5/8 Hex.	5
65	STD 551125	Washer - 1/4 Med. Lock	8
66	9663	Decal - Chute Warning	1
67	8456	Repair Link	
68	3036	Guard - Chain	2
69	*GM9414012	Screw - 1/4-14 x 1/2	4
70	STD 541437	Nut - 3/8-16 Hex. Lock	2
71	*GM126227	Bolt - 3/8-16 x 3/4	1
72	10546	Kick Stand	1
73	3411	Spring	1
74	STD 523717	Bolt - 3/8-16 x 1-3/4	1
75	STD 551137	Lock Washer 3/8 Med.	2
76	*GM120388	Washer Flat 3/16-1 x .083	2
77	11353	Assy. - Idler Bracket (comp)	1
78	11354	Assy. - Idler Bracket	1
79	11356	Assy. - Sprocket and Brg.	2
80	11360	Bearing - Needle	2
81	4506	Washer - (13/32 x 1 1/2 x .109) Flat	2
82	3396	Washer - (49/64 x 1 1/2 x .0598) Flat	2
83	GM-180116	Bolt - (3/8 - 16 x 1/2) Hx. Hd.	2
84	STD 551137	Washer - (3/8 Med.) Lock	2
85	4123	Fitting - Grease	2

Sears

owners manual

The Model Number is located on the support bracket which is at the rear lower right hand of the snow thrower header housing.

All parts listed herein may be ordered from any SEARS, ROEBUCK and Co. or SIMPSON-SEARS LIMITED retail catalog store.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION.

1. **The PART NUMBER**
2. **The PART DESCRIPTION**
3. **The MODEL NUMBER** 842.260052
4. **The NAME OF ITEM–** SNOW THROWER

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."

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