



OPERATOR'S MANUAL

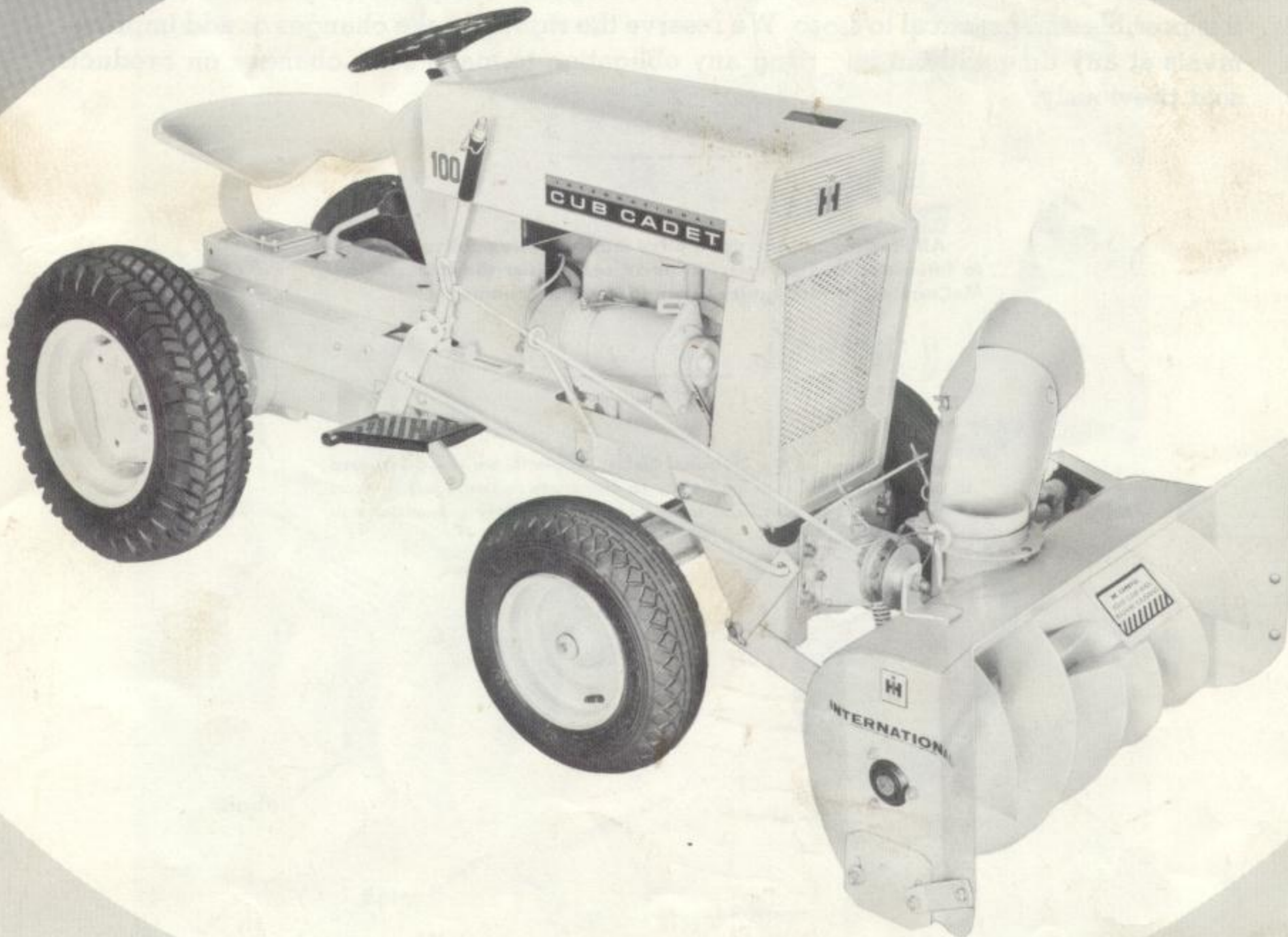
Setting Up Instructions

INTERNATIONAL®

CW-36

Snow Thrower

OPERATION
MAINTENANCE
LUBRICATION



TO THE OWNER

We are glad to welcome you as an owner of a product of International Harvester Company. You have a fine product, designed and built to give you many years of efficient operation. The way you operate and the care you give this product will have much to do with its successful performance.

To help you operate your equipment with utmost efficiency we have provided this operator's manual. It has been carefully prepared to give you the benefit of many years of experience gained in field testing and normal usage of this and similar products.

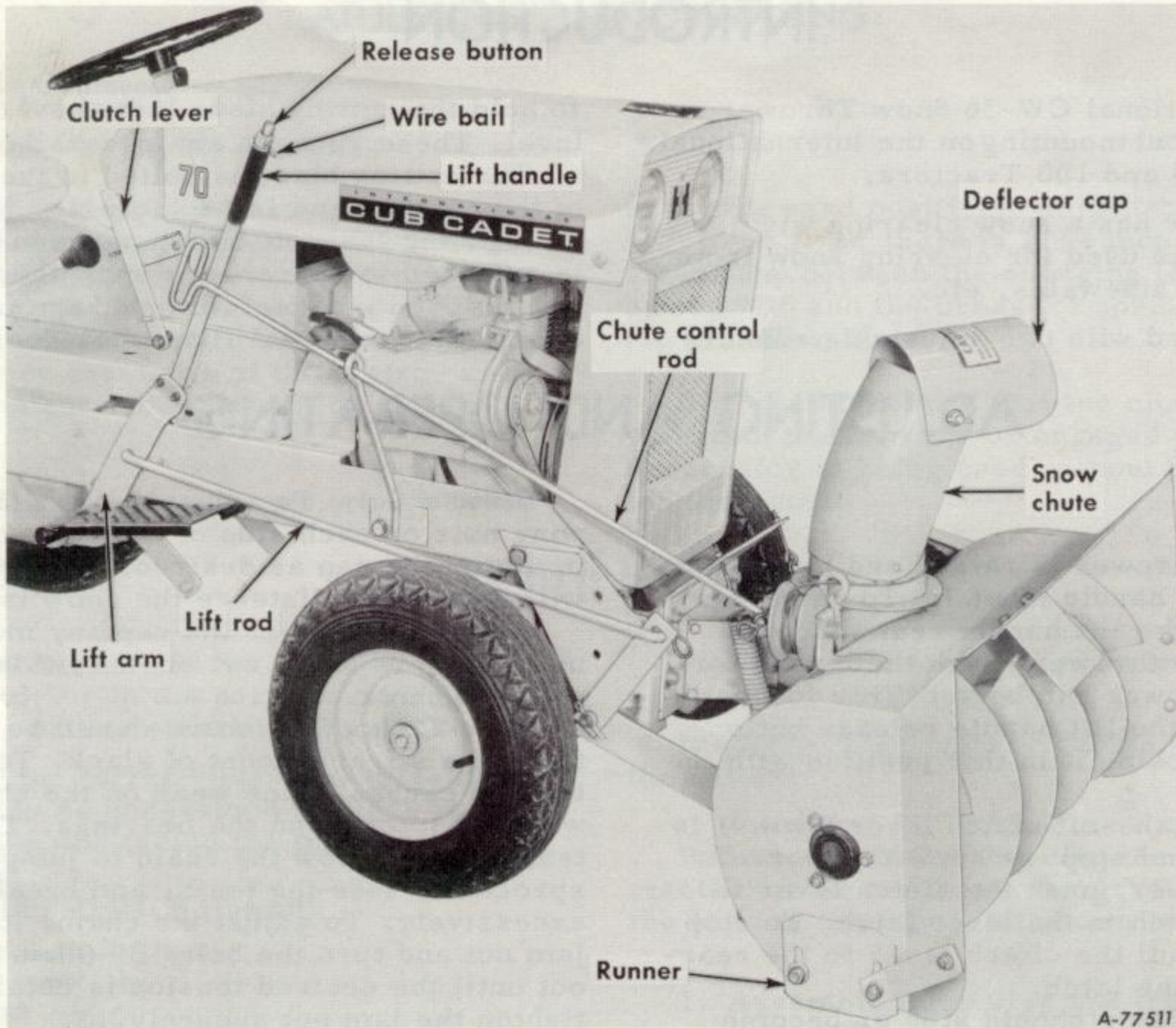
We urge you to study this manual so you will understand your new equipment thoroughly before operating it. We also urge you to take care of your manual so you will have it available for reference when you need it.

If your manual is lost or destroyed, a new copy may be ordered from the International Harvester dealer at a nominal price. Your International Harvester dealer will also be glad to answer any questions you may have on the operation or care of this product.

It is the policy of International Harvester Company to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to make such changes on products sold previously.

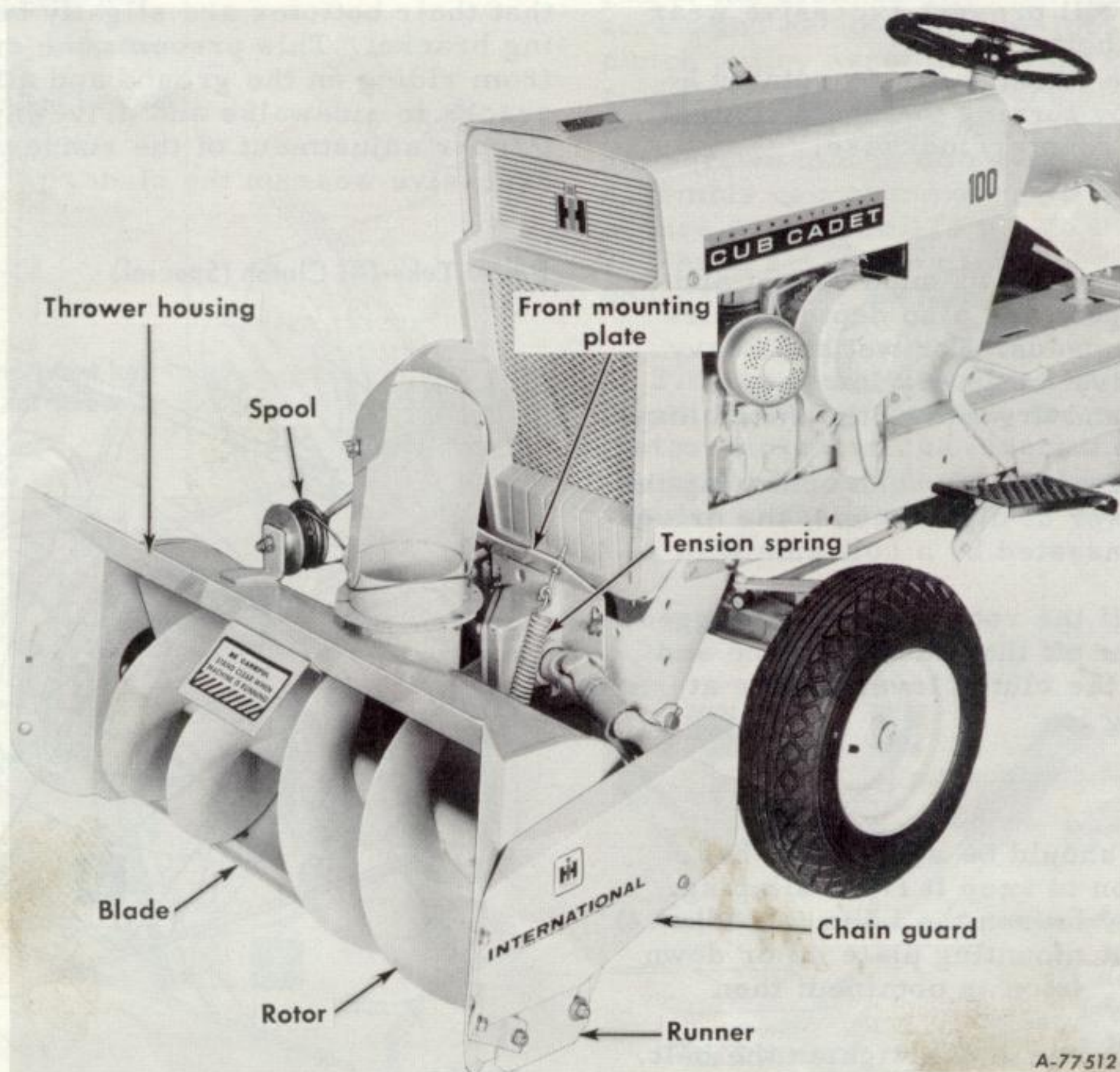
All illustrations and descriptive matter in this publication apply to International Harvester products sold under the International, McCormick, or McCormick-International trade name.

As a member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Safety, but to point out more clearly the safety precautions in this manual.



A-77511

Illust. 1



A-77512

Illust. 2

INTRODUCTION

The International CW-36 Snow Thrower is designed for front mounting on the International® Cub Cadet® 70 and 100 Tractors.

The thrower has a snow clearing width of 36 inches and is used for clearing snow from driveways and sidewalks, etc.

It is equipped with two adjustable runners

to hold the cutting blade just above ground level. These runners are reversible.

The cutting blade is bolted to the front edge of the housing and is replaceable.

A power take-off clutch package (473 485 R91) is required to operate the snow thrower, but is not included with it. This package is available at your International Harvester dealer's.

ADJUSTING AND OPERATING

OPERATING

The snow thrower is raised and lowered by the tractor lift handle (Illustr. 1). To raise the thrower, pull the lift handle rearward. To lower the snow thrower, push the handle forward. The thrower can be set "free to float" by depressing the lift handle release button (Illustr. 1) and locking it in this position with the wire bail.

The power take-off clutch lever (Illustr. 1) is used to start and stop the snow thrower. To start the thrower, push the clutch lever to the forward notch in the lever latch. To stop the thrower, pull the clutch lever to the rearward notch in the latch.

Note: If the rotor should stop or become plugged, disengage the clutch lever as quickly as possible; this will prevent excessive wear on the clutch and belt.

The snow chute (Illustr. 1) can be rotated a full 180 degrees by turning the chute control rod clockwise or counterclockwise.

Snow Conditions

Different types of snow, such as wet and heavy, dry and light, and also depth require different tractor speeds. For wet and heavy or deep snow, travel at a very low rate of speed. For light and dry snow, the speed may be increased.



CAUTION! Be careful when operating the snow thrower at high speeds; the driver could be unseated by a collision with a hidden object.



CAUTION! If the rotor becomes plugged, always shut off the tractor engine and disengage the clutch lever before attempting to unplug it.

ADJUSTMENTS

Belt - The belt should be adjusted to have just enough tension to keep it from slipping. To adjust the belt, loosen the bolts "A" (Illustr. 6) and move the front mounting plate up or down until the desired tension is obtained; then tighten the bolts securely.

Note: Be careful not to overtighten the belt, as excessive tension can result in premature belt failure.

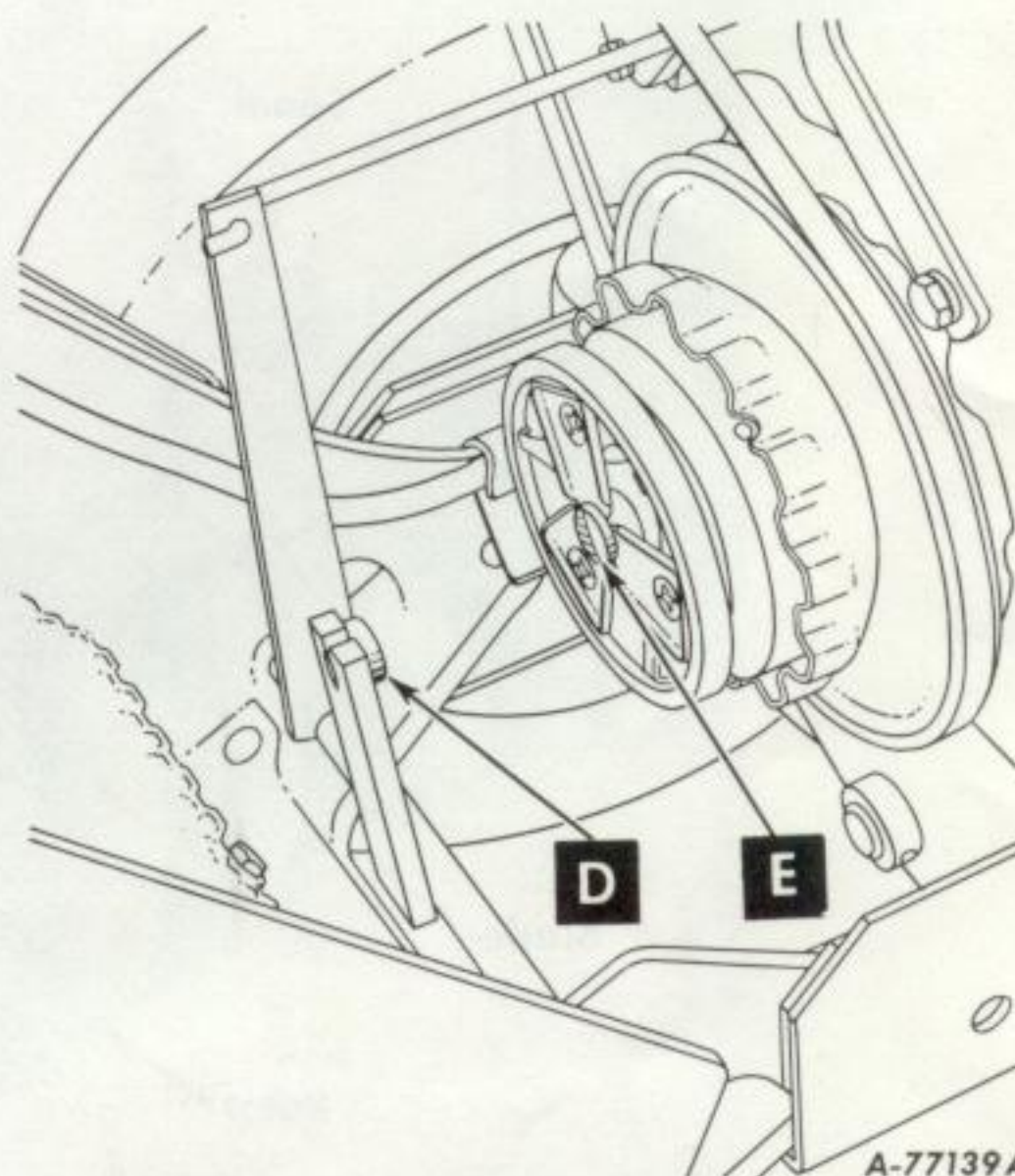
Deflector Cap - To adjust the cap, loosen the wing nuts on each side of the chute and raise or lower the cap as desired. Lowering the cap will reduce the distance the snow is thrown.

Note: Do not lower the cap any more than is necessary in heavy wet snow as this tends to clog the chute.

Roller Chain - The chain should be adjusted to have a slight amount of slack. Too much tension causes undue wear on the chain and wasteful friction on the bearings. Too little tension may allow the chain to jump the sprockets, ride the teeth, and break or whip excessively. To adjust the chain, loosen the jam nut and turn the bolt "B" (Illustr. 8) in or out until the desired tension is obtained; then tighten the jam nut securely.

Runners - The runners should be adjusted so that their bottoms are slightly below the housing bracket. This prevents the cutting blade from riding on the ground and allows it to clear cracks in sidewalks and driveways, etc. Proper adjustment of the runners will eliminate excessive wear on the blade.

Power Take-Off Clutch (Special)



Illustr. 3

ADJUSTING AND OPERATING

ADJUSTMENTS - Continued

Power Take-Off Clutch (Special) - Continued

The clutch is factory adjusted and should not require further adjustment under normal operating conditions. However, if clutch slippage should occur, it is recommended that you see your International Harvester dealer for satisfactory servicing of the clutch, as special equipment and instructions are required.

With the clutch fully engaged (clutch lever

in the forward position), adjust the turnbuckle "C" (Illust. 7) so there is 1/64 inch minimum clearance between the engaging lever wear button "D" and the pressure spring thrust button "E" (Illust. 3).

It is recommended that the clutch lever is placed in the forward or engaged position when the tractor is being used without power take-off equipment.

SETTING UP

Bolts must be used in the holes in which they are found, or in the parts to which they are attached, unless otherwise shown.

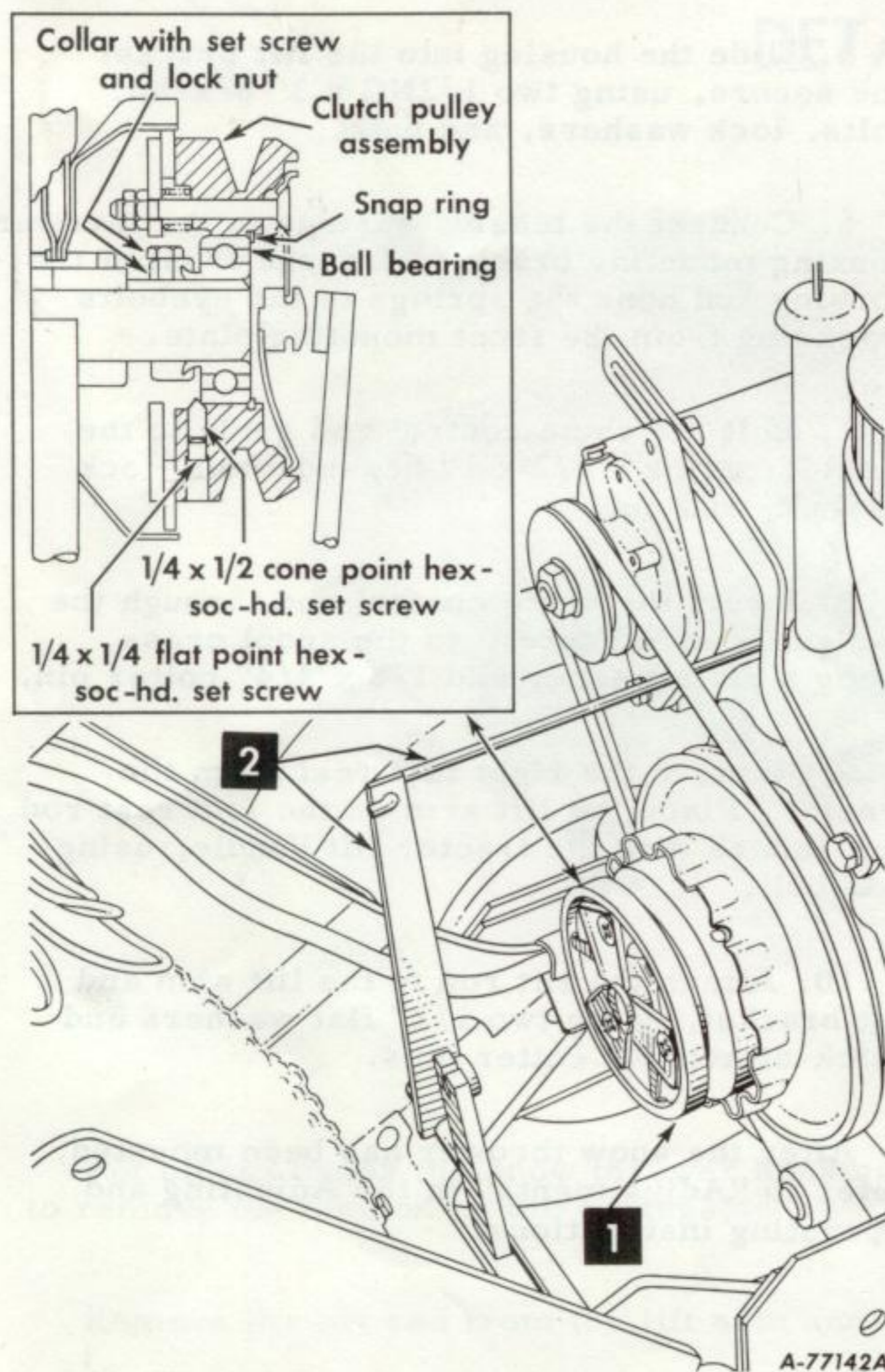
Whenever the terms "left" and "right" are used, it should be understood to mean from a position behind and facing the machine.

POWER TAKE-OFF CLUTCH (Special)

Raise the tractor hood and tilt it forward.

Disconnect the battery cables and remove the battery.

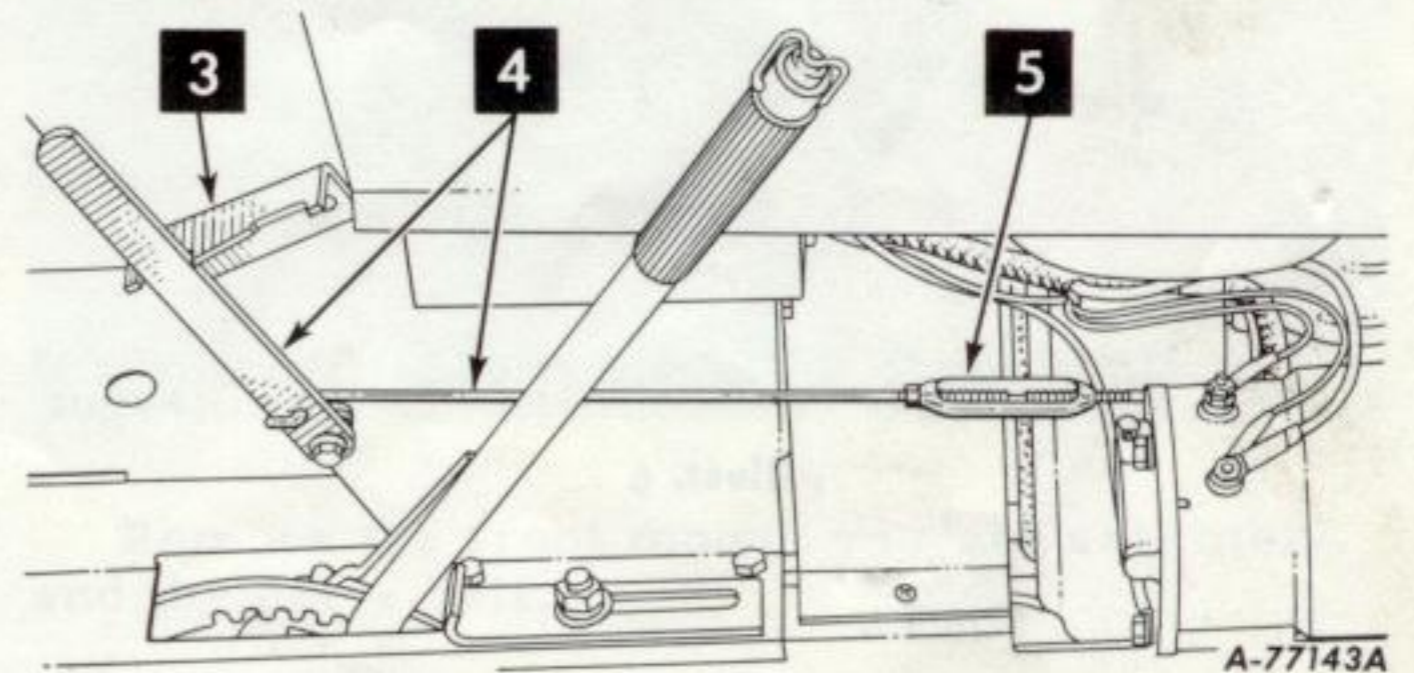
Remove the bolts securing the grille to the tractor frame and angle the grille forward on the ends of the frame as shown in Illust. 5.



Illust. 5

1. Assemble the collar and the bearing on the engine crankshaft (bearing flush with the end of the crankshaft); then tighten the set screw and secure with the lock nut. Place the clutch pulley assembly on the bearing (snap ring flush against the bearing); then tighten with three 1/4 x 1/2" cone-point hex-soc-head set screws to 5 to 6 foot-pounds torque so assembly cannot move relative to the bearing; secure with three 1/4 x 1-1/4" flat-point hex-soc-head set screws tightened to 6 to 7 foot-pounds torque. See Illust. 5.

2. Attach the clutch rod to the clutch shaft. Position the rod between the engine and the motor-generator and insert the shaft ends in the grille holes (insert one end at a time, making use of the large access holes).



Illust. 5A

SETTING UP

POWER TAKE-OFF CLUTCH (Special) - Continued

3. Bolt the lever latch to the standard, using two 1/4 x 1/2" carriage bolts, lock washers, and nuts. See *Illust. 5A*.

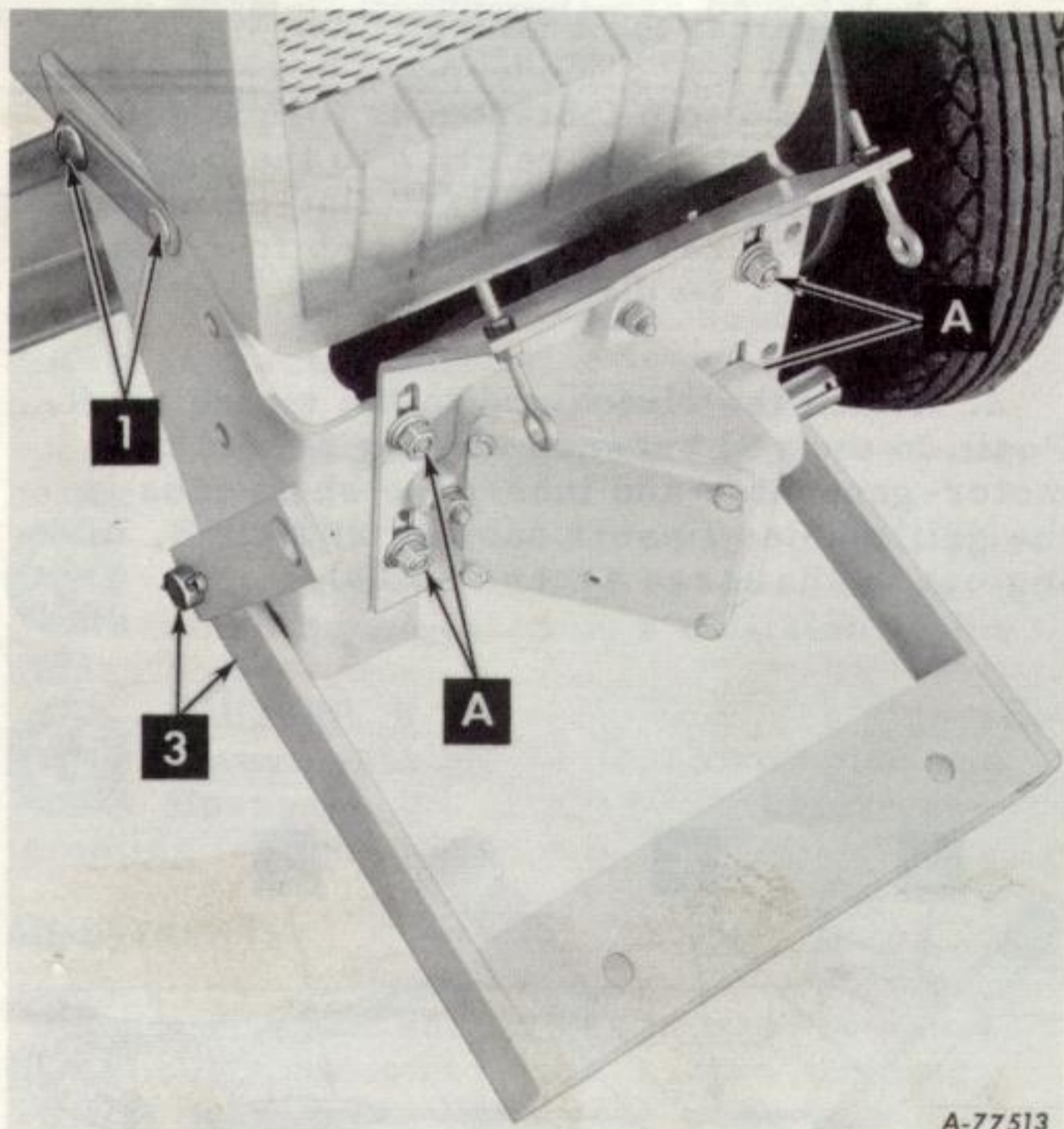
4. Attach the rear clutch rod to the lever. Insert a 3/8 x 1-1/2" hex-hd. machine bolt through the parts in the following order: 13/32 x 13/16" x 16 ga. plain washer, lever, spacer with compression spring, and steering wheel standard. Secure with a lock washer and nut. Reinstall the battery and reconnect the battery cables.

5. Connect the rear clutch rod to the front clutch rod with a turnbuckle and 1/4" hex. jam nut. With the hand lever in the forward position, (clutch fully engaged), adjust the turnbuckle so there is 1/64" minimum clearance between the wear button "D" and thrust button "E". Secure with the jam nut.

Note: With the hand lever in the rearward position (clutch fully disengaged) the pulley must rotate freely by hand.

Re-attach the grille to the tractor.

ASSEMBLY



Illust. 6

1. Attach the "Front Mounting Assembly" to the tractor, using the mounting clips and two 1/2 x 1" truss head machine bolts and lock washers. See *Illust. 6*.

2. Install the drive belt. Be sure the drive sheave is in alignment with the tractor clutch sheave.

3. Attach the lift bracket to the "Front Mounting Assembly", using the pivot shaft and two 3/16 x 1-1/4" cotter pins.

4. Position the thrower housing assembly in front of the tractor. Slide the universal yoke over the output shaft of the gear case and secure, using a 3/16" square key and set screw. Then insert a 5/32 x 1-1/4" cotter pin in the hole at the end of the output shaft and spread the pin. See *Illust. 7*.

5. Slide the housing into the lift bracket and secure, using two 1/2NC x 3" hex-hd. bolts, lock washers, and nuts.

6. Connect the tension springs to the thrower housing mounting bracket. Lift the front of the housing and hook the springs to the eyebolts extending from the front mounting plate.

7. Bolt the chute control rod guide to the tractor, using a 1/2 x 1" hex-hd. bolt, lock washer, and nut.

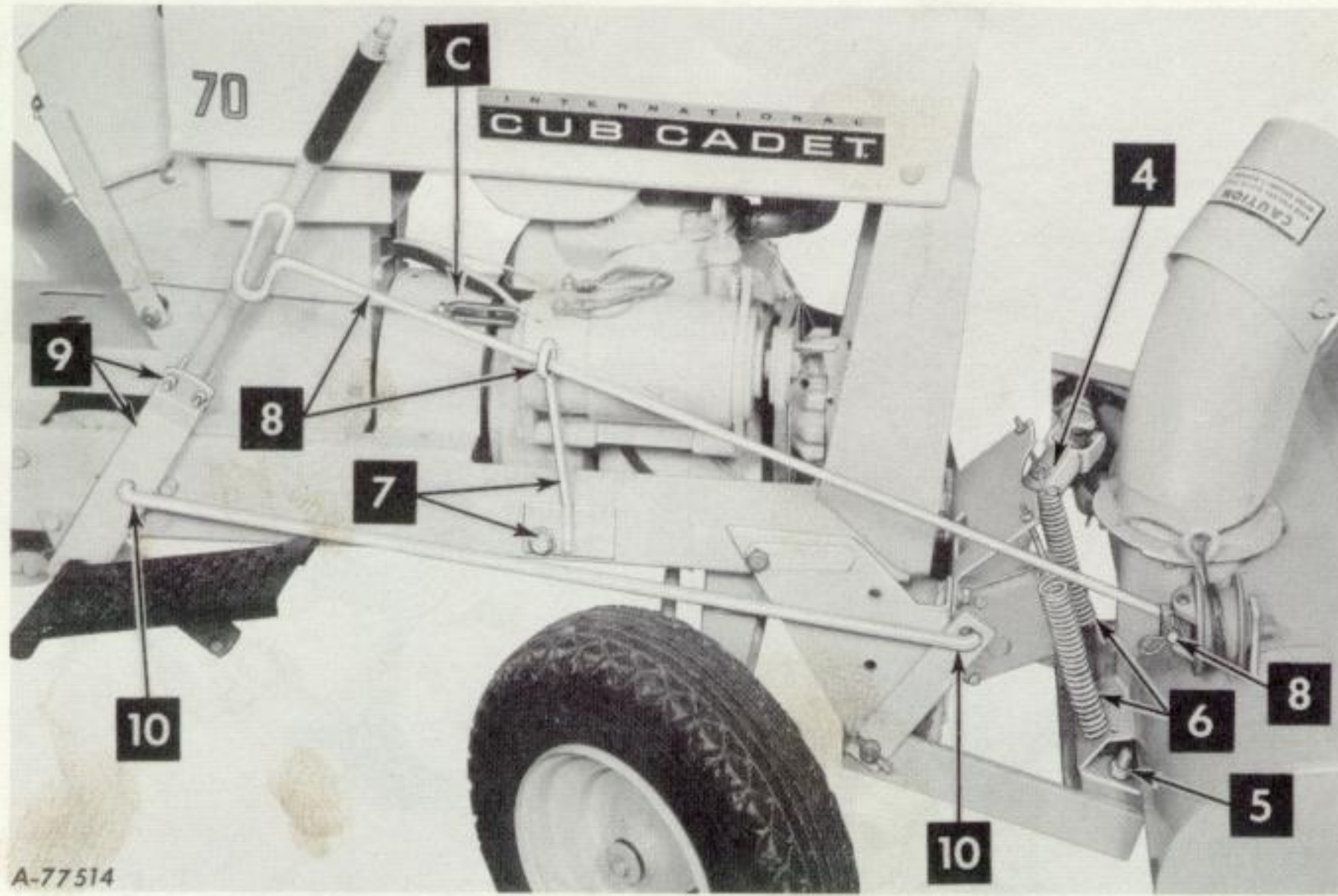
8. Insert the chute control rod through the rod guide and secure it to the spool cross, using a plain washer and 1/8 x 3/4" cotter pin.

9. Remove the right foot rest from the tractor. Place the lift arm on the foot rest rod and secure it to the tractor lift handle, using a U-bolt.

10. Attach the lift rod to the lift arm and lift bracket, using two 1/2" flat washers and quick-attachable cotter pins.

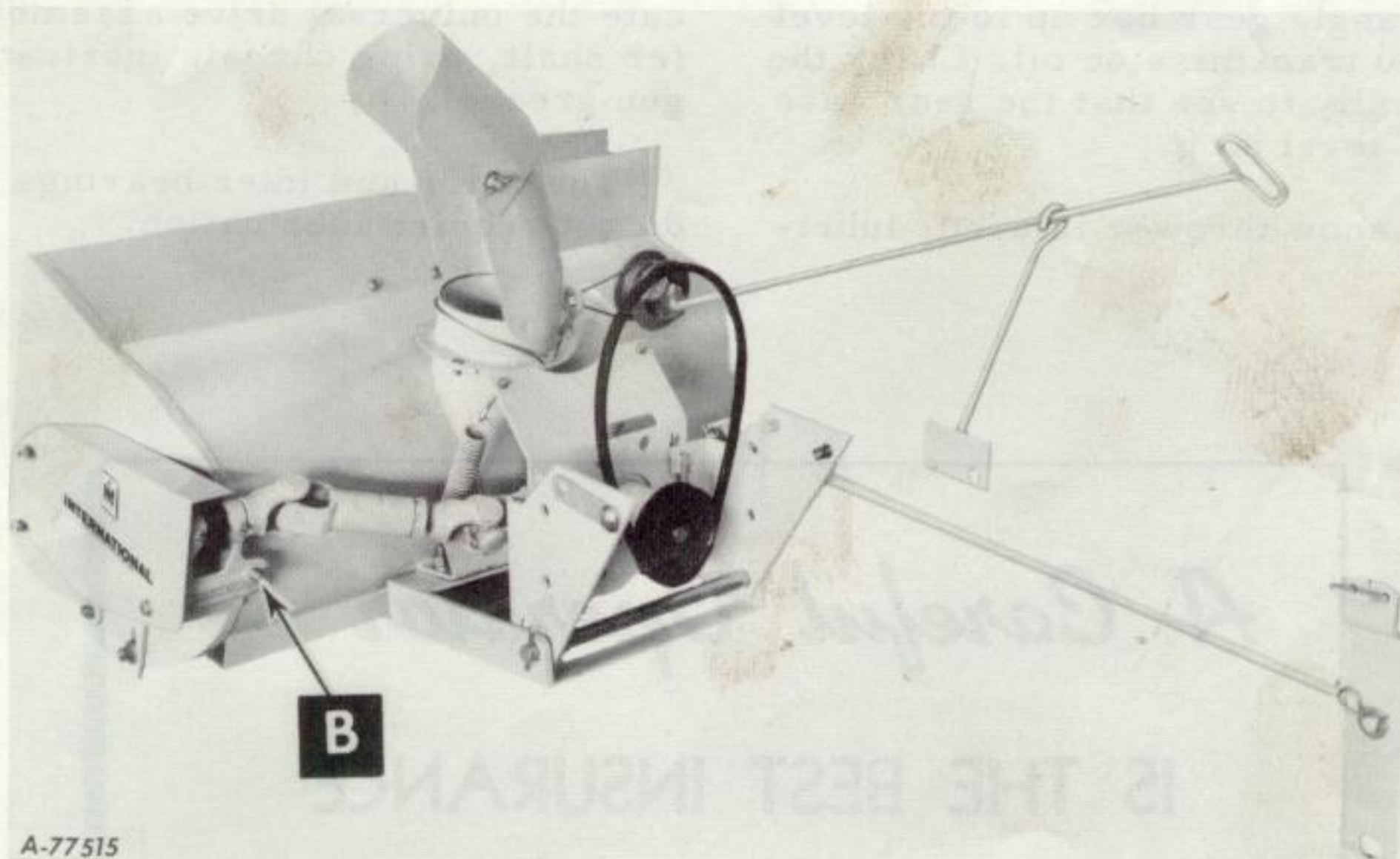
After the snow thrower has been mounted, refer to "Adjustments" in the Adjusting and Operating instructions.

SETTING UP



Illust. 7

DETACHING



Illust. 7A

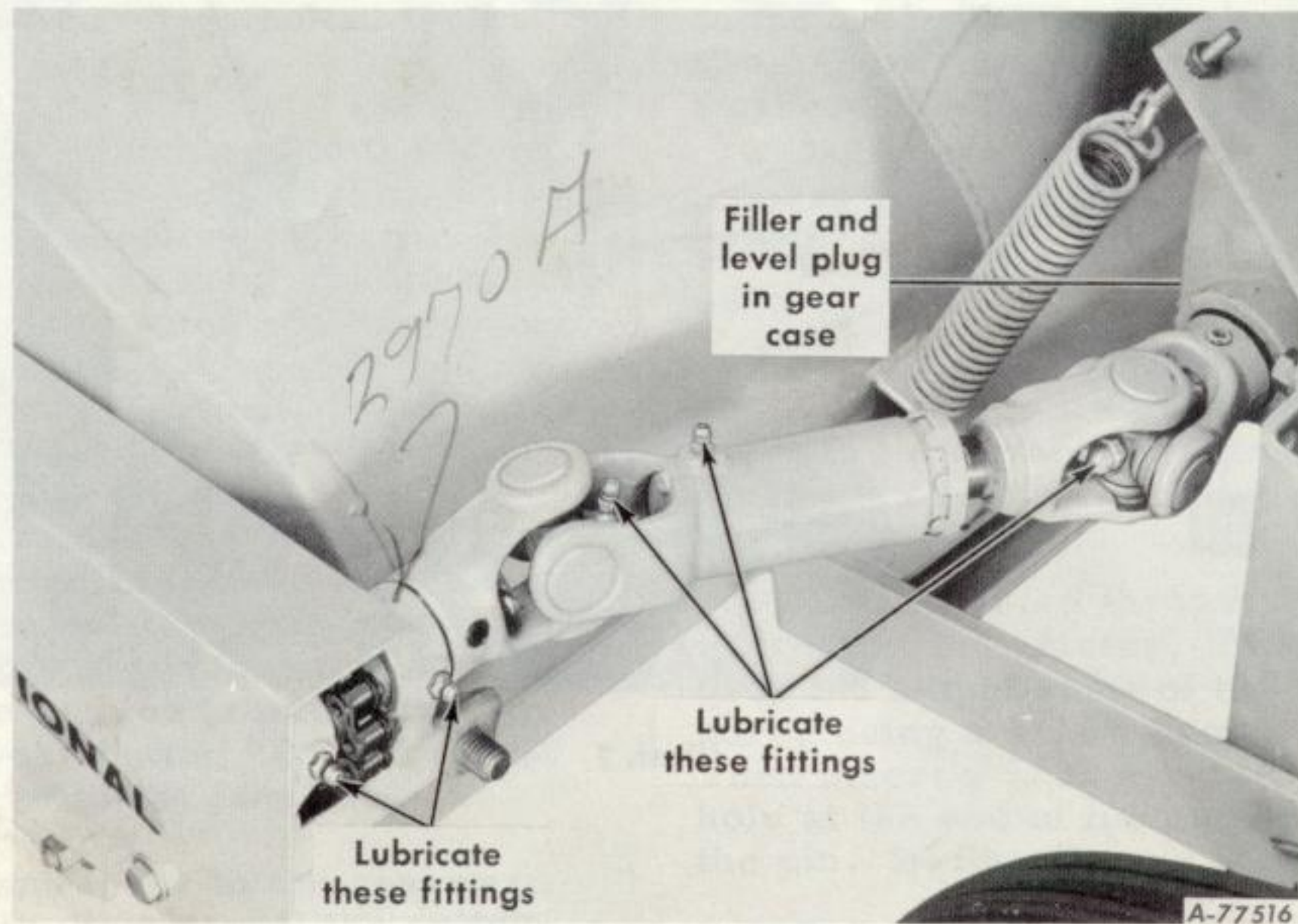
Put blocks under the snow thrower housing to remove the tension on the springs.

Remove the lift rod from the lift arm and

lift bracket; also remove the chute control rod.

Remove the front mounting plate assembly and the drive belt.

LUBRICATION



Illust. 8

Fill the right-angle gear box up to the level plug with SAE-140 transmission oil. Check the oil level occasionally to see that the gear case is filled up to the level plug.

Each time the snow thrower is used, lubri-

cate the universal drive assembly and the transfer shaft, using chassis lubricant (pressure-gun grease).

The rotor and idler bearings are sealed and do not require lubrication.

A Careful Operator

IS THE BEST INSURANCE

AGAINST AN ACCIDENT

—National Safety Council.