



# OPERATOR'S MANUAL

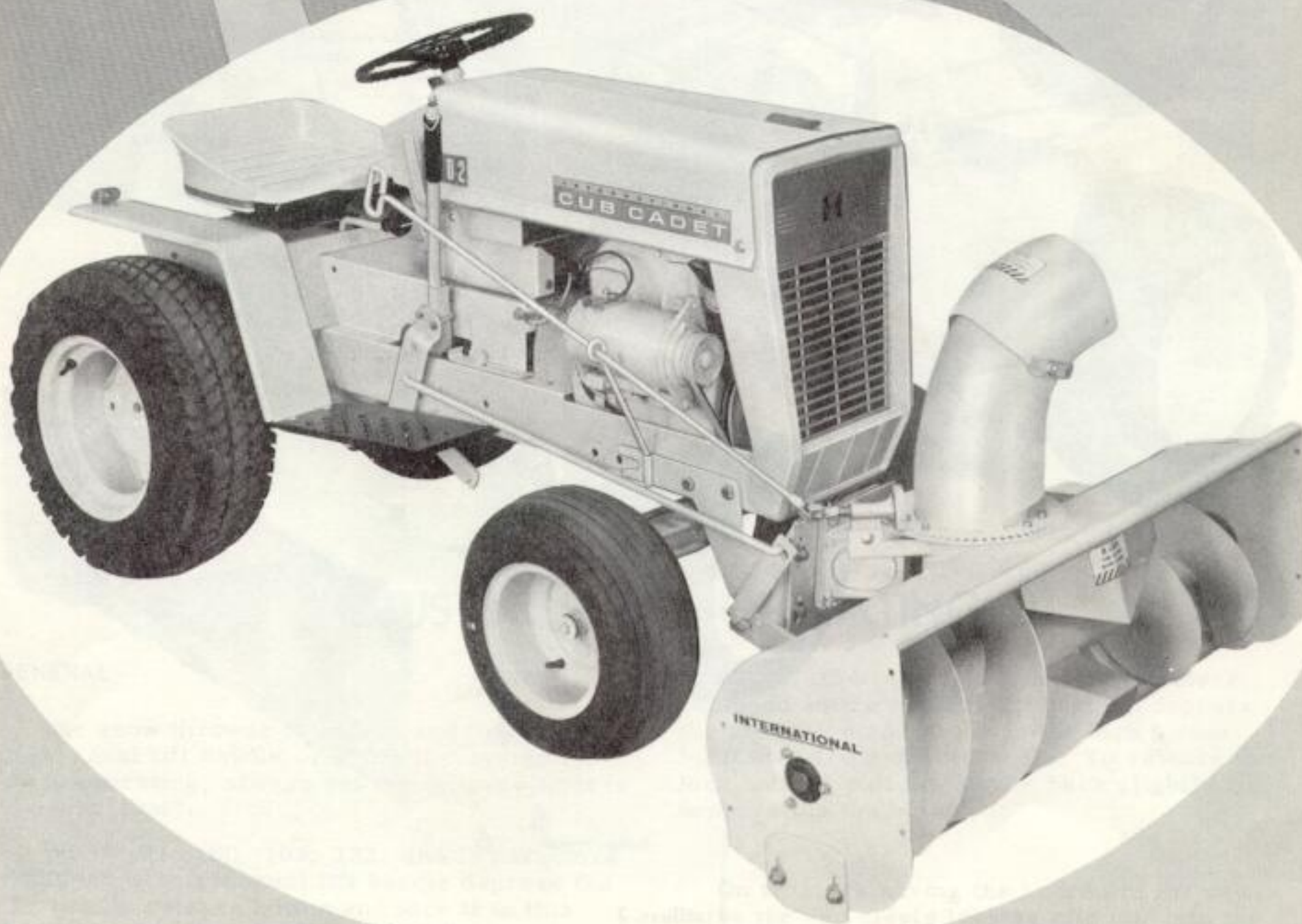
SETTING UP INSTRUCTIONS

INTERNATIONAL<sup>®</sup>

QA-36 and QA-42

SNOW THROWERS

OPERATION  
MAINTENANCE  
LUBRICATION





## To The Owner

Your new International Harvester snow thrower is designed to meet today's exacting operating requirements. The ease of operation, and ability to adjust to various conditions lighten your work and shorten your hours on the job.

You are urged to consult your International Harvester dealer concerning unusual conditions or special applications. Let the experience of your dealer and the organization associated with him serve you.

Be sure to read the instructions for Adjusting and Operating in this manual. Check each item referred to and acquaint yourself with the adjustments required to obtain efficient opera-

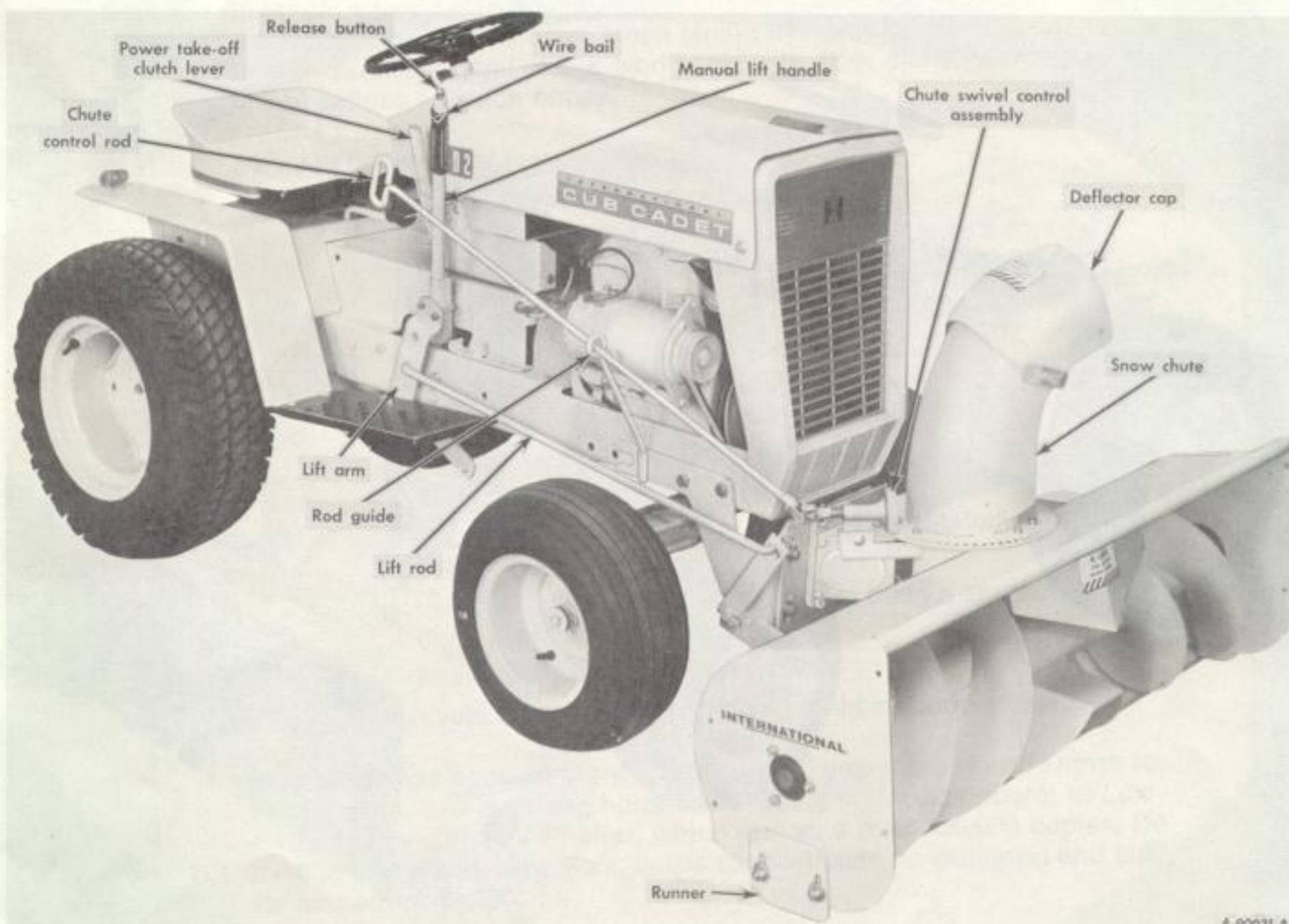
tion and maximum trouble-free service. Remember, a machine which is properly lubricated and adjusted saves time, labor and fuel.

After the operating season, thoroughly clean your snow thrower and inspect it. Preventive maintenance pays dividends. Your dealer has original-equipment parts which assure proper fit and best performance. He is able to recondition your equipment to a like new condition.

Additional copies of this manual may be ordered from your International Harvester dealer at a nominal price.

## INTRODUCTION

The instructions contained in this manual may be used for the QA-36 Snow Thrower.



A-90031 A



The International QA-36 and QA-42 Snow Throwers are designed for front mounting on the International® Cub Cadet® 70, 71, 72, 100, 102, 104, 105, 122, 123, 124, and 125 Tractors.

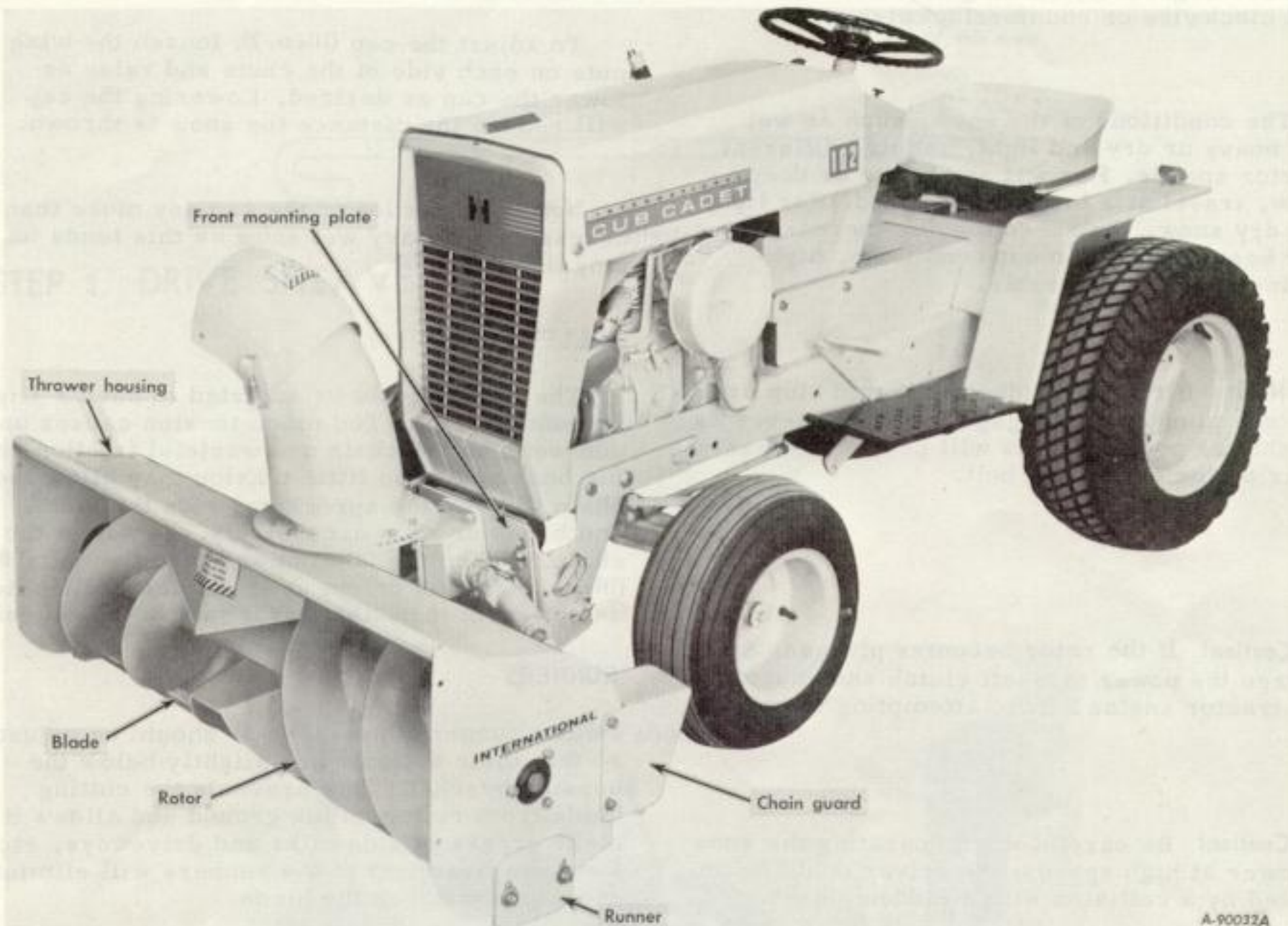
The thrower has snow clearing widths of 36 inches - QA-36, or 42 inches - QA-42 and is used for clearing snow from drive-ways, sidewalks, parking lots, etc.

Each thrower equipped with two adjustable runners to hold the cutting blade just above the

surface level. These runners are reversible.

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

For 70 and 100 Tractors a power take-off clutch package (473 487 R92) is required to operate a snow thrower, but is not included with it. This package is available at your International Harvester dealer.



Illust. 3

## ADJUSTING AND OPERATING

### GENERAL

The snow thrower is raised and lowered by the manual lift handle or hydraulic system. When operating, always set the thrower so it is "free to float".

On 70, 71, 100, 102, 122, and 123 tractors equipped with a manual lift handle depress the lift handle release button and lock it in this position with the wire bail, (Illust. 2).

On 72, 104, 105, 124, and 125 tractors, equipped with a manual lift handle, depress the top button and press in the lock button located in front of the handle. To release the lock button, pull the handle back slightly and depress the top button.

On tractors having the hydraulic lift unit, raise the end clevis locking clip up, into the unlocked position. See (Illust. 11).



# ADJUSTING AND OPERATING

## GENERAL - Continued

The power take-off clutch lever (Illustr. 2) 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.

The snow chute (Illustr. 2) can be rotated a full 180 degrees by turning the chute control rod clockwise or counterclockwise.

The conditions of the snow, such as wet and heavy or dry and light, require different tractor speeds. For wet and heavy or deep snow, travel at a low rate of speed. For light and dry snow, the speed may be increased. For best results in most conditions, high engine speed is desirable.

**Note:** If the rotor (Illustr. 3) should stop or become plugged, disengage the clutch lever as quickly as possible; this will prevent excessive wear on the clutch and belt.

**Caution!** If the rotor becomes plugged, disengage the power take-off clutch and shut off the tractor engine before attempting to unplug it.

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

## V-BELT

The belt should be adjusted to have enough tension to keep it from slipping. Turn belt tension screw counterclockwise until all slack is out of the belt. Then, tighten an additional 3 to 3-1/2 turns for proper tension. See Illustr. 8.

## DEFLECTOR CAP

To adjust the cap (Illustr. 2), 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 bolts "B" (Illustrs. 9 and 14) in or out until the desired tension is obtained; then tighten the jam nuts securely.

## RUNNERS

The runners (Illustrs. 2 and 3) 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.

# SETTING UP

Remove all parts from the shipping carton and arrange the parts conveniently.

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

Lubricate all moving parts as you proceed, and see that they work freely.

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

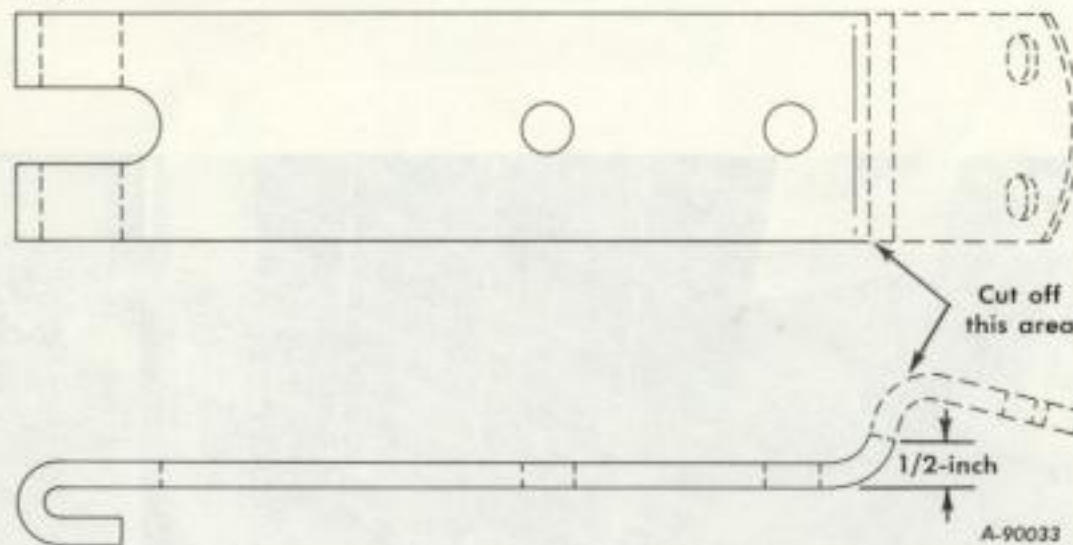


## SETTING UP

If tractor is equipped with Hydraulic Lift Unit attachment, the lift arm must be reworked as shown in *Illust. 5*.

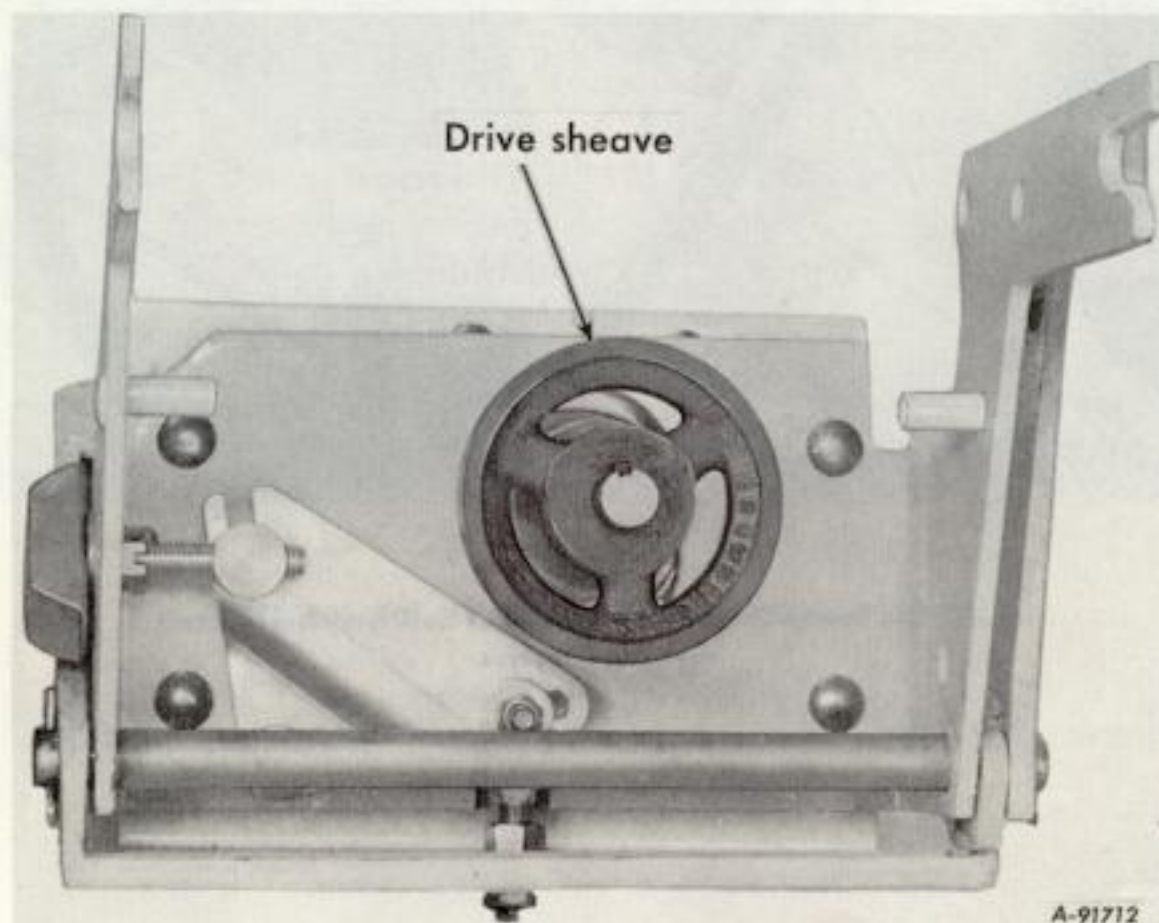
**NOTE:** For tractors equipped with Hydraulic Lift Unit, the following parts must be ordered

from parts stock: One spacer 27 934 A ( $1/2 \times 1-1/32$ -inch pipe), one  $1/2 \times 1-7/8$ -inch hex. head cap screw, and one  $1/2$ -inch medium lock washer.



*Illust. 5*

### STEP 1. DRIVE SHEAVE

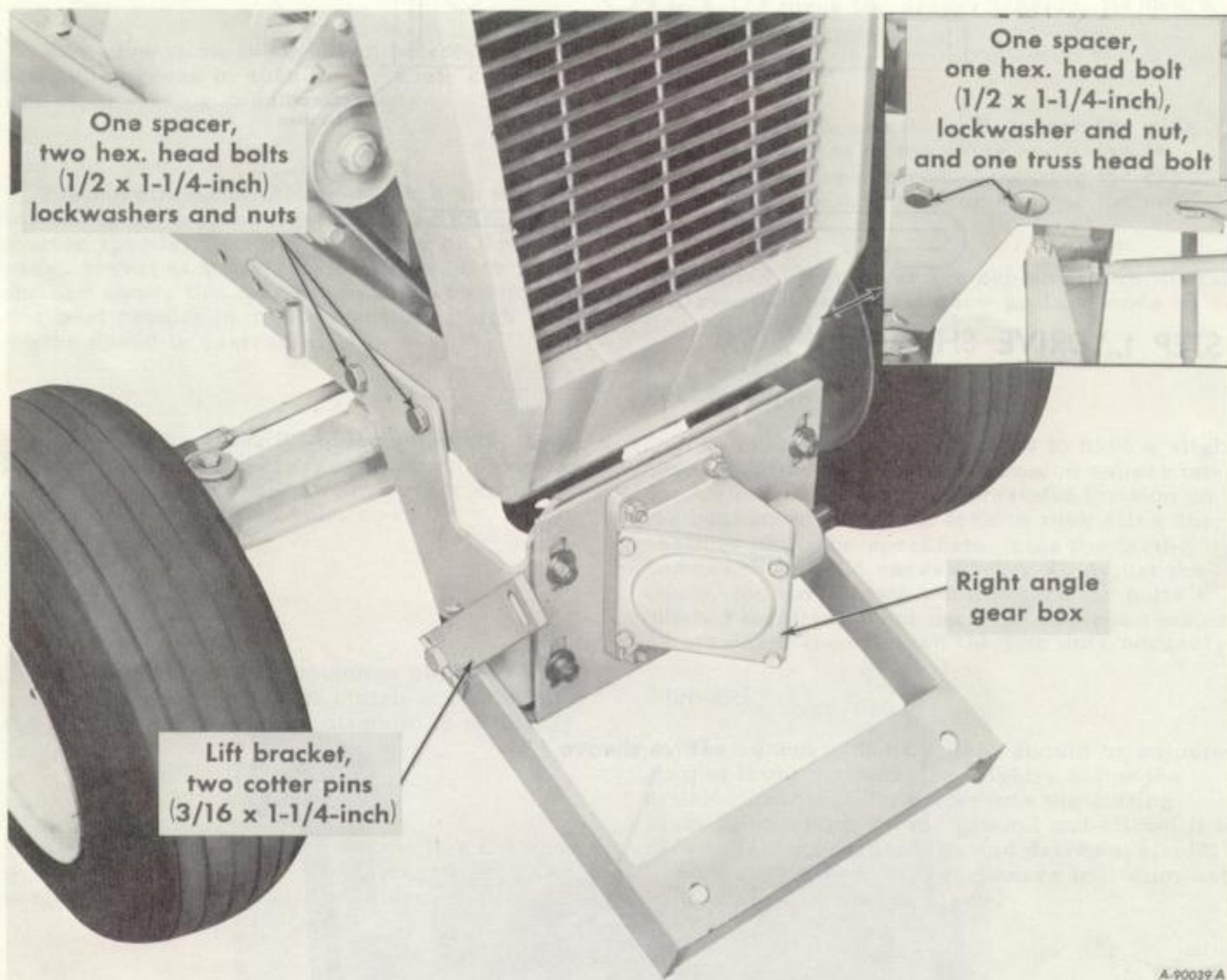


*Illust. 5A*

**NOTE:** Do not tighten set screws until final belt alignment is made.

## SETTING UP NO OPERATING

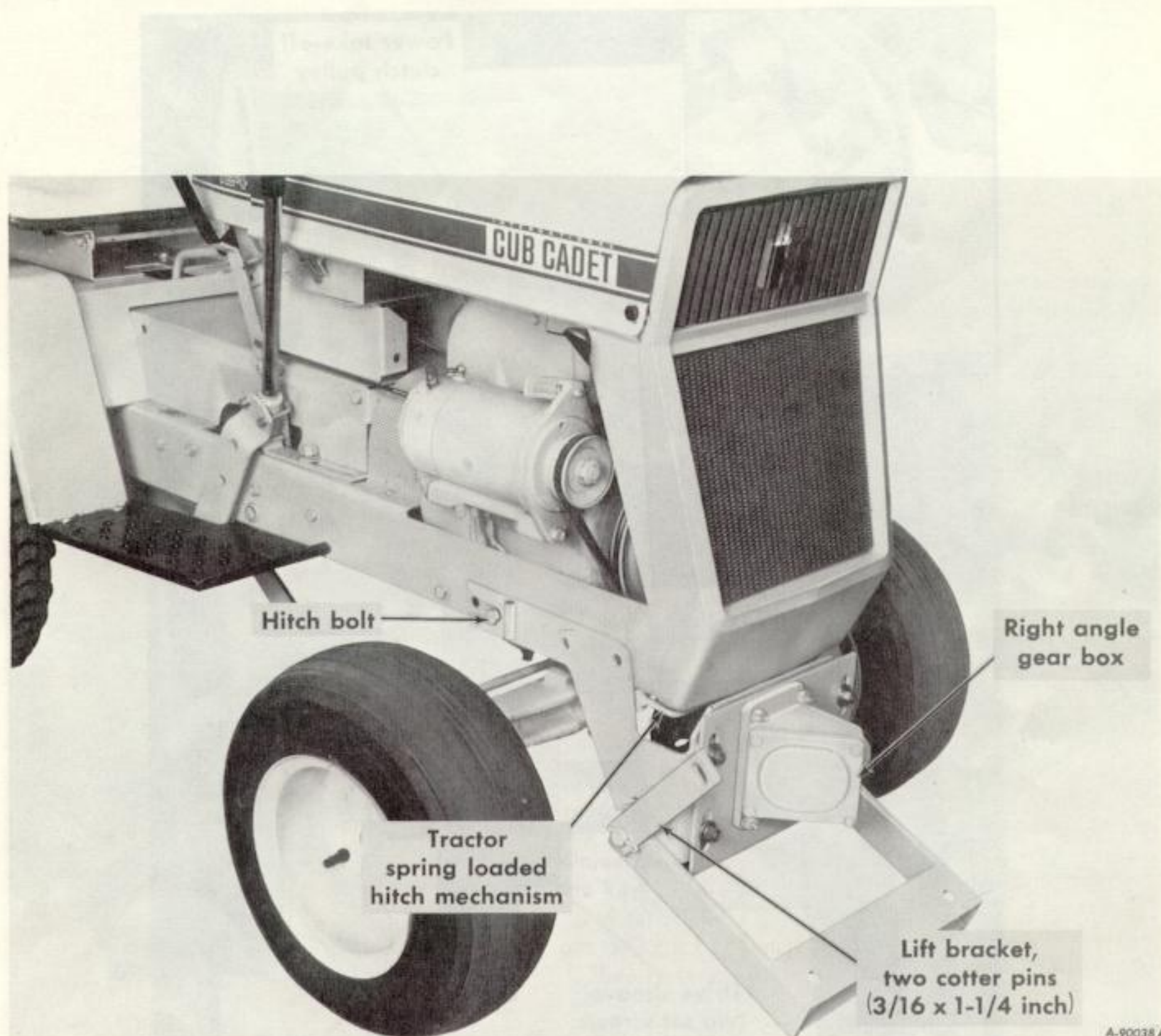
### STEP 2. FRONT MOUNTING ASSEMBLY AND LIFT BRACKET



Illust. 6  
For International Cub Cadet 70, 71, 100, 102, 122,  
and 123 Tractors



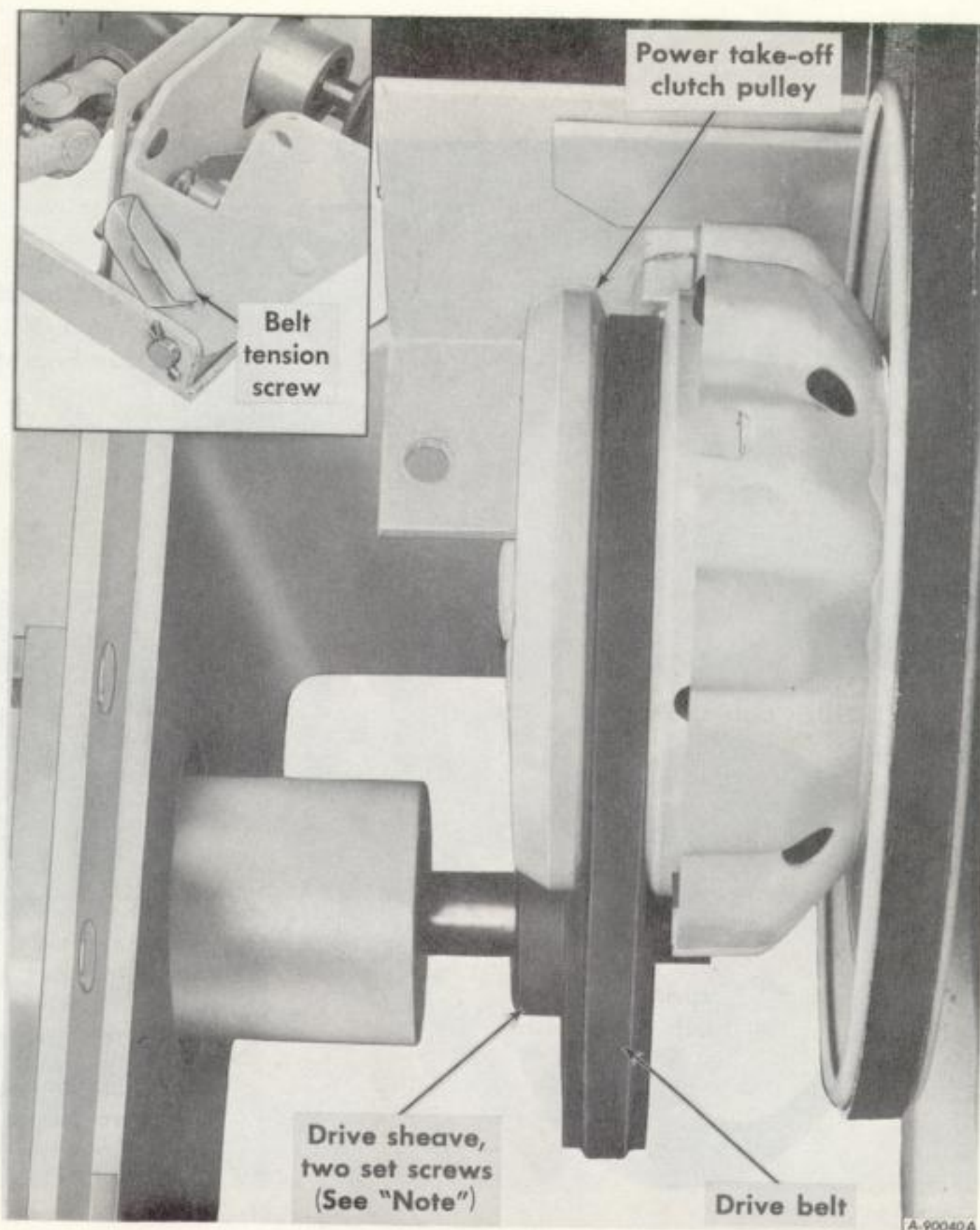
STEP 2. FRONT MOUNTING ASSEMBLY AND LIFT BRACKET—Continued



Illust. 7  
For International Cub Cadet 72, 104, 105, 124, and 125 Tractors

## SETTING UP

### STEP 3. DRIVE BELT



Illustr. 8

**Note:** Be sure drive sheave is in alignment with the tractor power take-off clutch pulley.

The belt tension screw is located on either the lower left side of the front mounting assembly (as shown in Illustr. 8) or at the bottom center of the front mounting assembly.

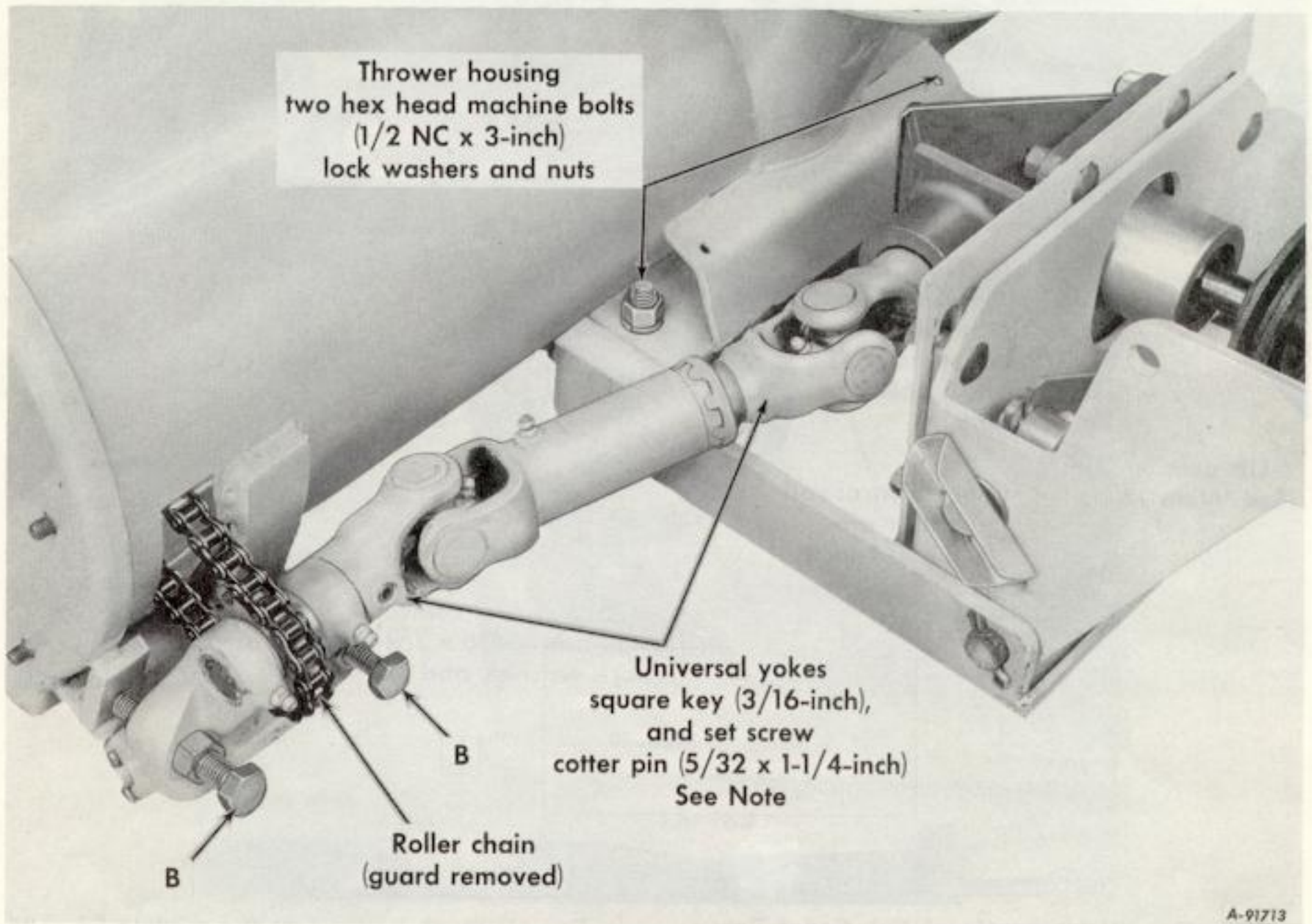
To obtain proper belt tension after belt is in place, turn belt tension screws counter-

clockwise until slack is out of the belt. (Belt sides will be straight.) Then, tighten an additional 3 - 3-1/2 turns.

**Note:** If belt tension screw is located at the bottom center of the front mounting assembly be sure belt tension screw handle is in the locked position (parallel with the front mounting plate) after adjustment.



## STEP 4. UNIVERSAL YOKES AND THROWER HOUSING



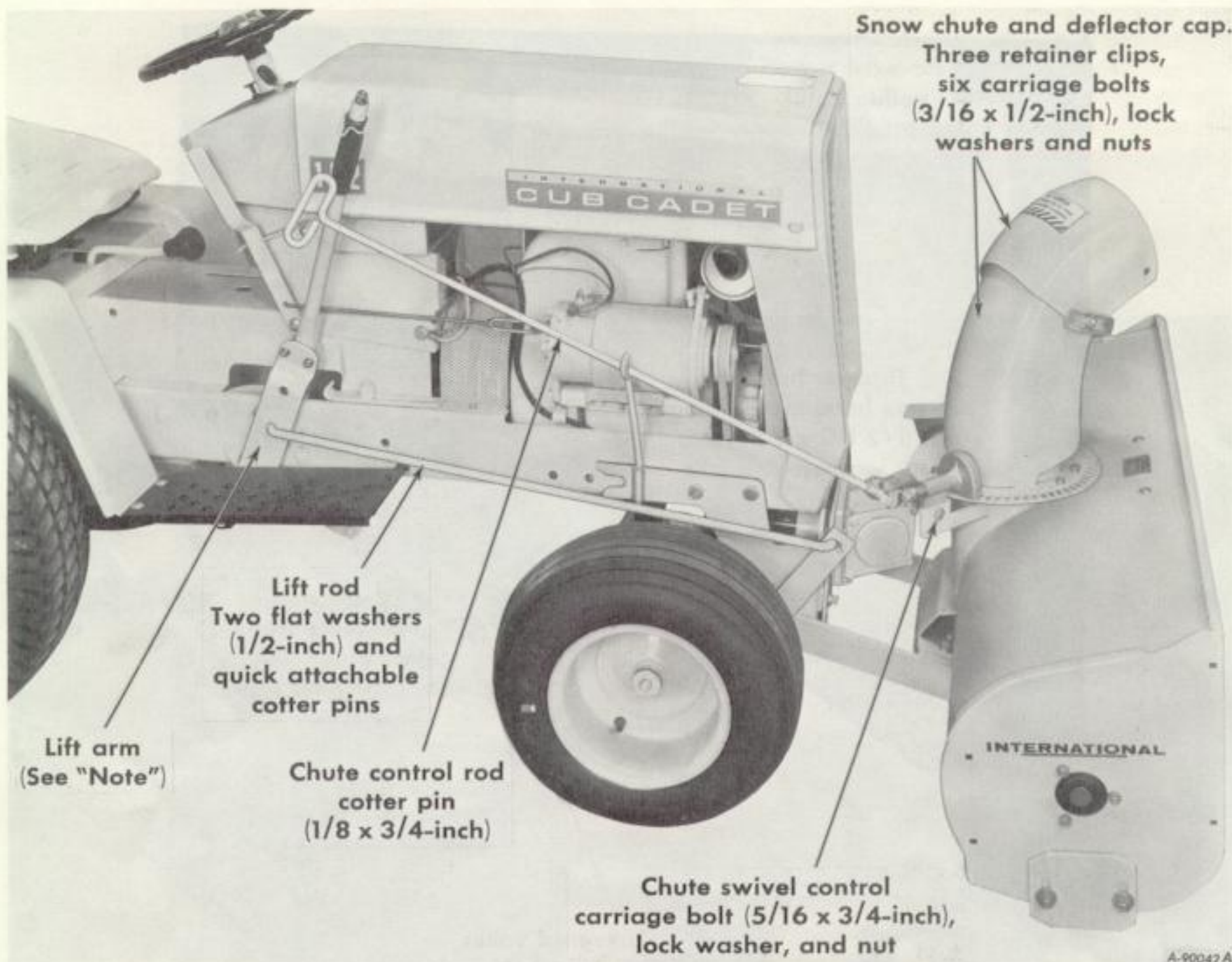
Illustr. 9

**NOTE:** After inserting cotter pin in end of output shaft, spread the pin.



## SETTING UP

### STEP 5. SNOW CHUTE, CHUTE SWIVEL CONTROL, CHUTE CONTROL HANDLE, LIFT ARM, AND LIFT ROD



Illustr. 10

**Note:** For all International Cub Cadet Tractors except the Model 72, 104, 105, 124, and 125, remove the right foot rest from the tractor. Place the lift arm on the foot rest rod. Replace the foot rest.

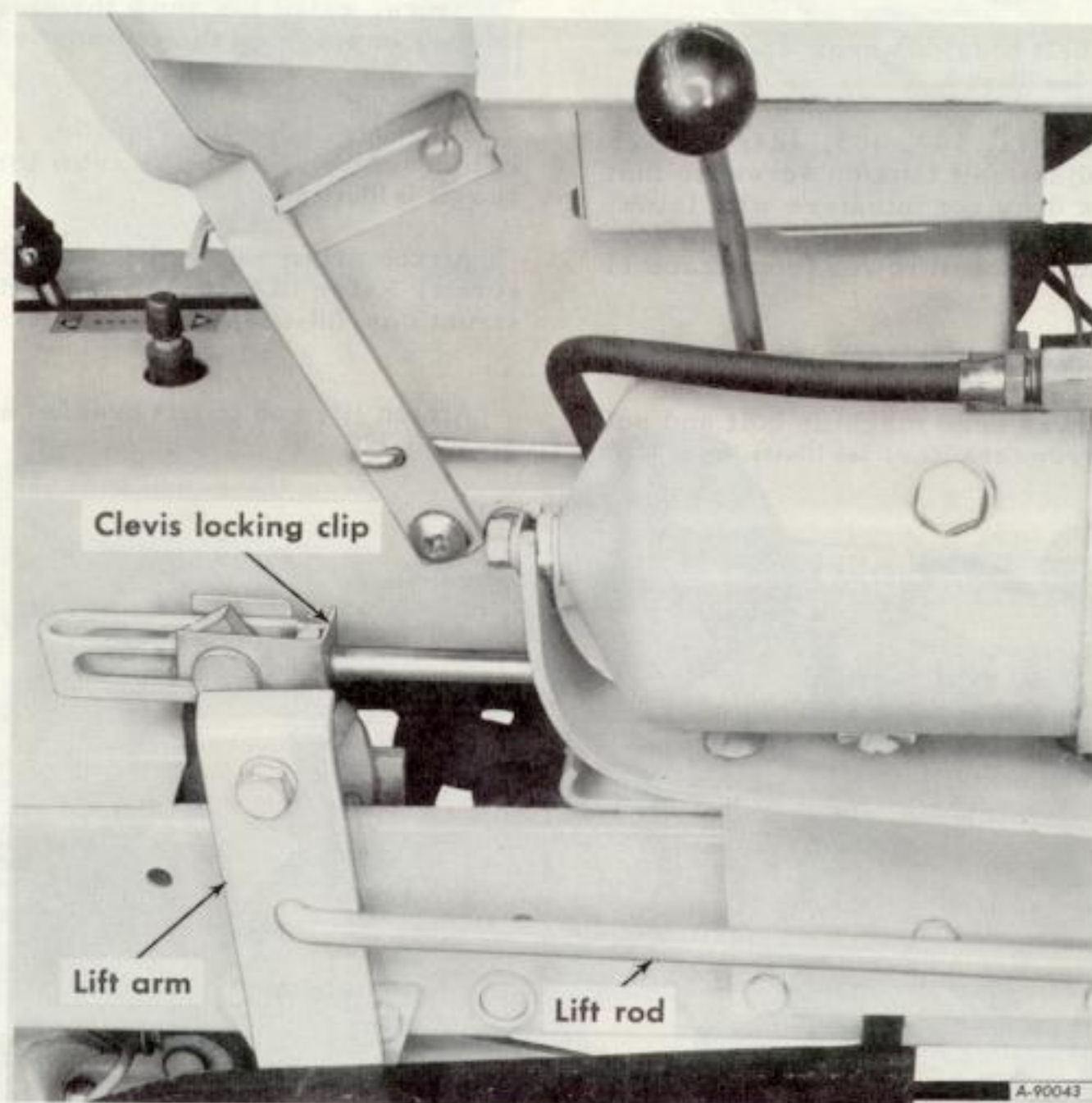
For tractors with manual lift handle secure the lift arm to the handle using the U-bolt.

For all tractors, except the models 72, 104, 105, 124, and 125, not equipped with a shield on the lower end of the lift handle, use two 1/2 x 1-1/16-inch spacers on the U-bolt, behind the lift bracket.

For all tractors equipped with hydraulic lift attachment, bolt the lift bracket (Illustr. 11) to the lift arm on the tractor.



STEP 5. SNOW CHUTE, CHUTE SWIVEL CONTROL, CHUTE CONTROL HANDLE, LIFT ARM, AND LIFT ROD—Continued



Illust. 11  
Hydraulic lift arm attachment



# DETACHING AND ATTACHING

## DETACHING

Drive tractor with snow thrower to storage location.

Lock the tractor brakes and disengage the power take-off clutch.

Stop the engine by turning the key to the "Off" position.

Remove the lift rod from the lift bracket and lift arm. See Illust. 12.

Loosen the belt tension screw and remove the drive belt. See Illust. 8.

For Cub Cadet 72, 104, 105, 124, and 125 Tractors, readjust belt tension screw so that pulley gear box does not interfere with latch "A" when removing from tractor. Press down latch "A" and pull snow thrower from tractor. See Illust. 13.

For Cub Cadet 70, 71, 100, 102, 122, and 123 Tractors, remove the three hex. head bolts and one truss head machine bolt and pull snow thrower from tractor. See Illusts. 6 and 13.

## ATTACHING

Drive tractor into position and lock the brakes. Also, disengage the power take-off clutch.

Stop the engine by turning the key to the "Off" position.

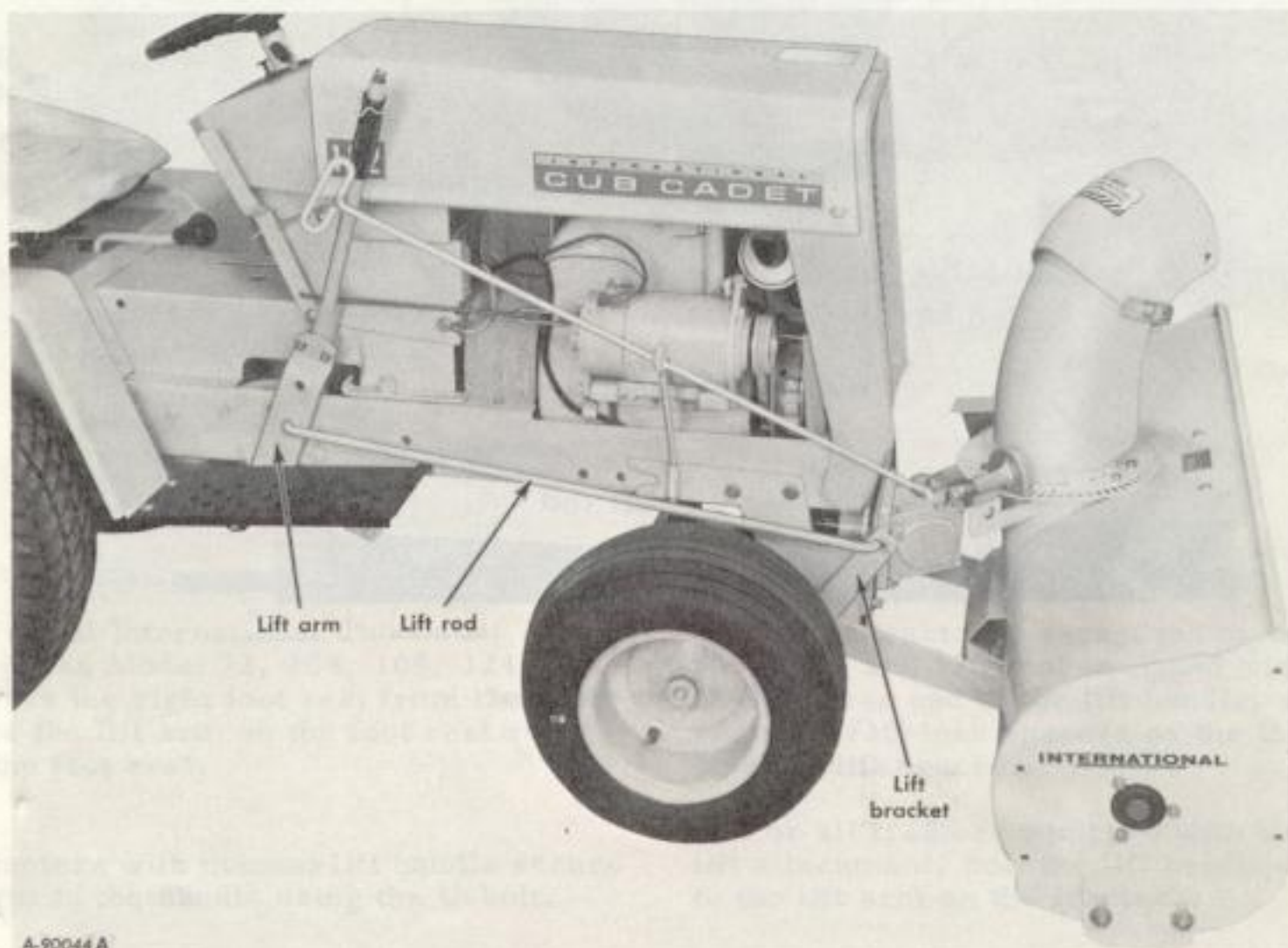
Align the snow thrower with the tractor as shown in Illust. 13A.

For Cub Cadet 72, 104, 105, 124, and 125 Tractors, raise the snow thrower until it latches in place on the tractor frame. See Illust. 13B.

For Cub Cadet 70, 71, 100, 102, 122, and 123 Tractors, attach the snow thrower as shown in Illust. 6.

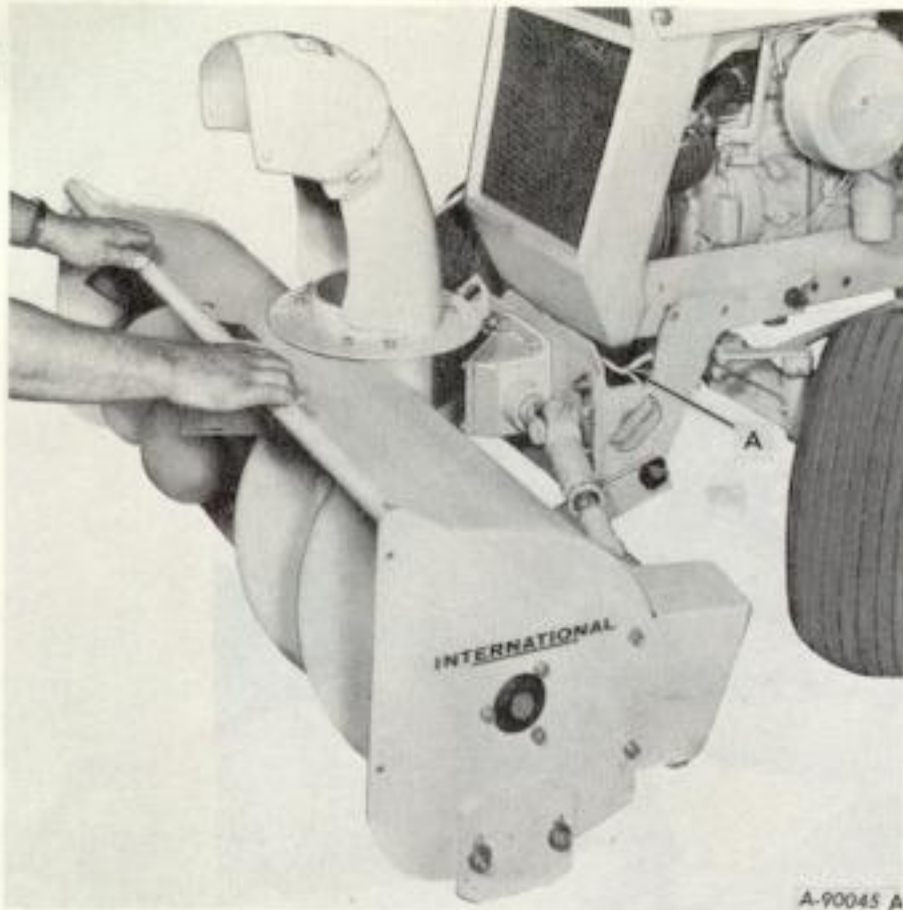
Attach drive belt and tighten the belt tension screw. Refer to Step 3 in the Setting Up Instructions, (Illust. 8).

Attach lift rod to lift bracket and lift arm. See Illust. 12.

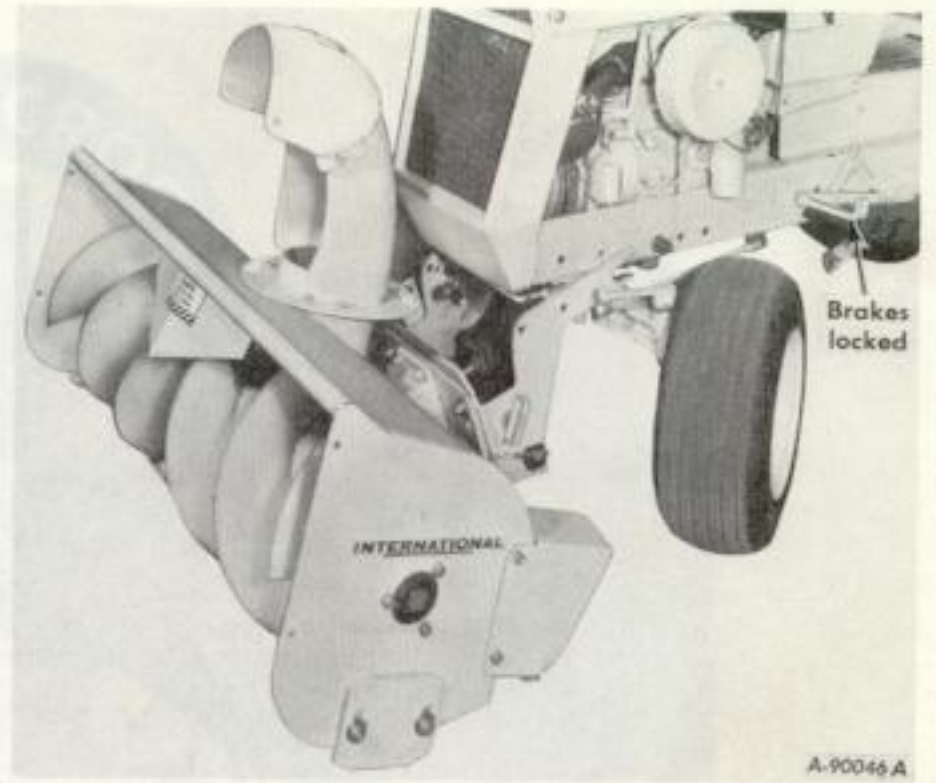


Illust. 12





Illust. 13



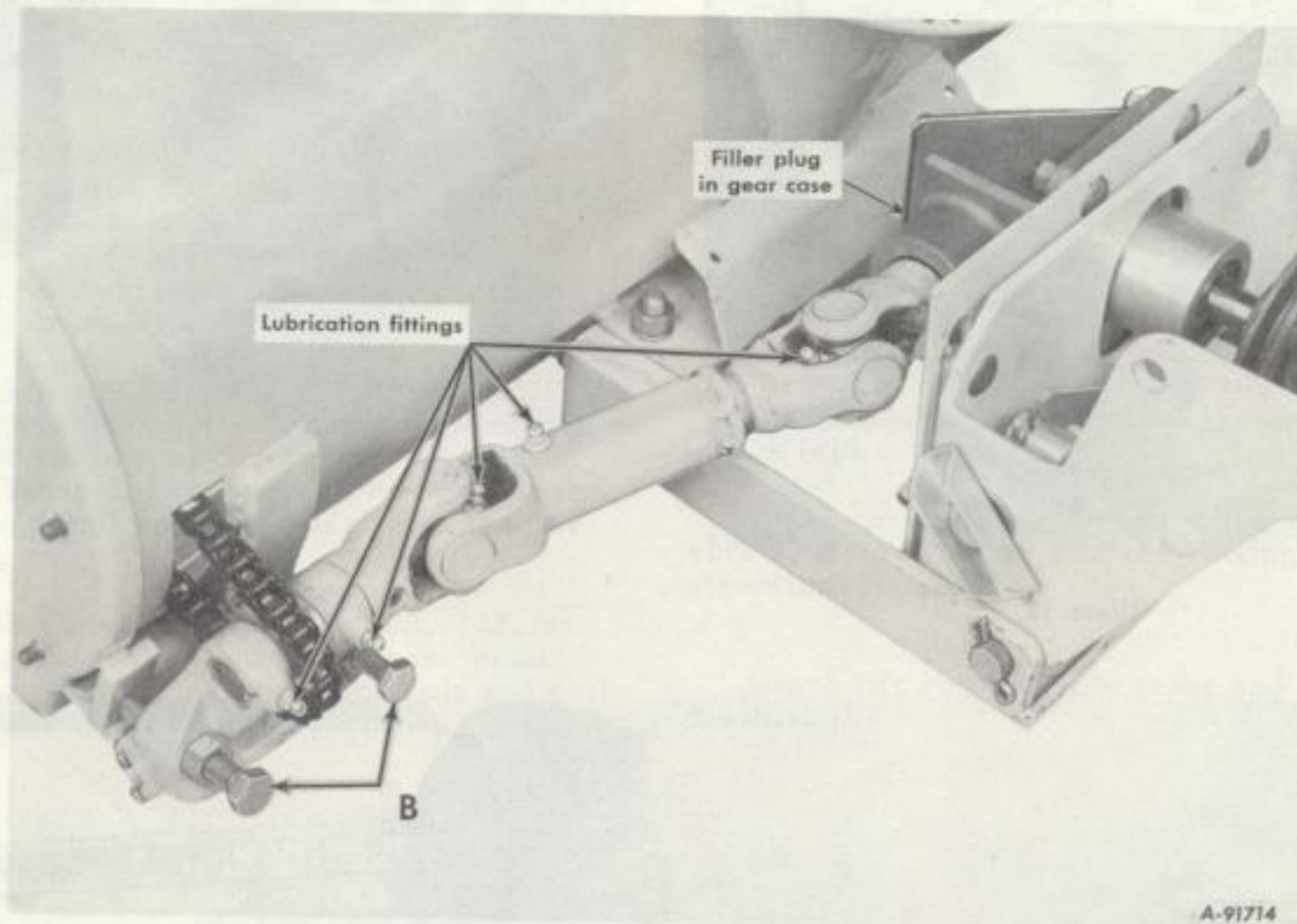
Illust. 13A



Illust. 13B



## LUBRICATION



Illust. 14

The right-angle gear box is either a sealed unit requiring no lubrication or has an oil level plug. If the right-angle gear box has a level plug, fill with SAE-80 transmission oil. Check the oil level occasionally to see that the gear case is filled up to the level plug. See Illust. 14.

Each time the snow thrower is used, lubricate the universal drive assembly and the transfer shaft, using IH 251H EP grease or equivalent #2 multi-purpose lithium grease.

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





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# Accidents can be prevented with your help

No accident-prevention program can be successful without the wholehearted co-operation of the person who is directly responsible for the operation of equipment.

To read accident reports from all over the country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the harvest field or in the

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