



# NO. 5 STALK CUTTER



JOHN DEERE

## OPERATORS MANUAL NO. 5 STALK CUTTER

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ENGLISH



## TO THE PURCHASER

The purpose of this manual is to furnish valuable information about your No. 5 Stalk Cutter. In this manual you will find instructions and helpful suggestions for operating, adjusting, lubricating, setting-up, and servicing your new stalk cutter. Also included is a complete parts list with helpful illustrations to aid in proper identification of parts if replacement becomes necessary.

Keep this manual in a convenient place for quick and easy reference. Use it as a guide whenever questions arise. You have purchased a dependable, sturdy stalk cutter, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

If you need additional information, or if your stalk cutter requires special servicing, see your John Deere dealer. He has all the facilities required to keep your stalk cutter in A-1 condition. He will be glad to serve you.

Sometime in the future your stalk cutter may need new parts to replace worn or broken parts or for emergency repairs. If so, go to your John Deere dealer. He will see that you get high-quality, genuine John Deere parts. When ordering, be sure to give him the correct part number and description of the part desired. Such information can be obtained from the parts list section of this manual. This information will help him to identify the part you need.

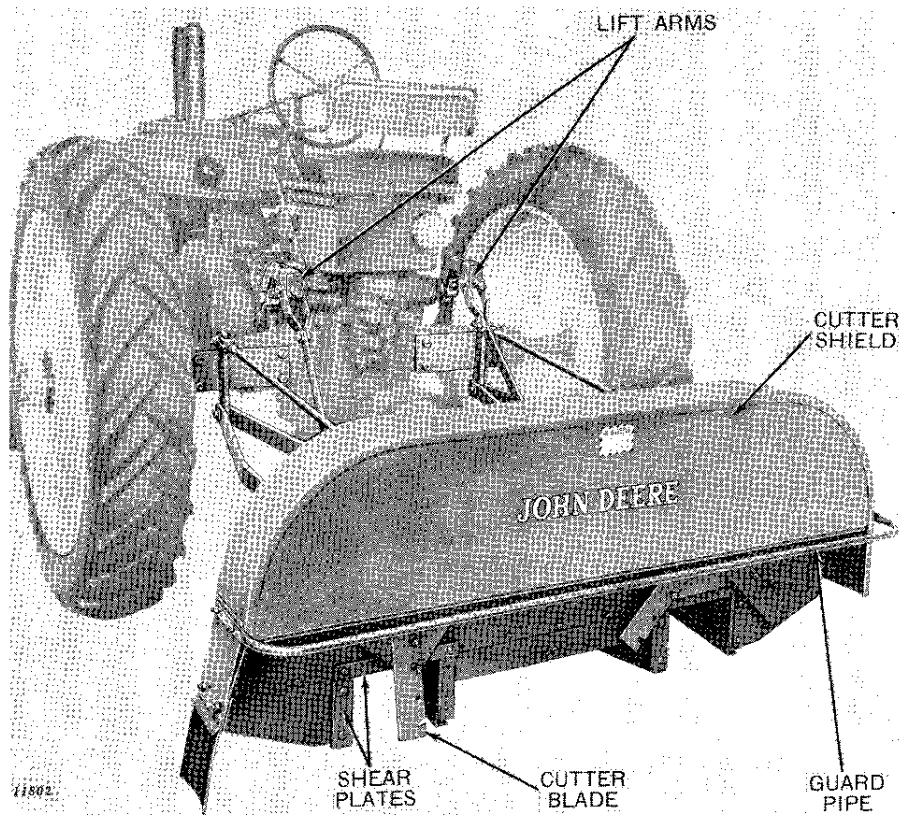
**John Deere No. 5 Stalk Cutter**

**Date Purchased.....19...**

*(To be filled in by Purchaser)*

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*Figure 1—The No. 5 Stalk Cutter*

## SPECIFICATIONS AND DATA

- No. 5 STALK CUTTER**.... Integral two-row machine mounted on rear of tractor for use in corn or cotton fields, after crops are harvested.
- POWER REQUIRED**..... "A" or "G" Tractor, with Power Lift or Powr-Trol.
- OPERATING HEIGHT**.... Adjustable from tractor seat with Powr-Trol, or equivalent. Limit can be set with Lift Arm Adjusting Screws.
- GROUND SPEED**..... 3 to 5 miles per hour depending on conditions.
- CUTTER SPEED**..... 1050 to 1100 R.P.M.
- ROW WIDTH**..... Tunnels are adjustable to 38-inch, 40-inch, or 42-inch rows.
- WEIGHT**..... 710 pounds.
- FRAME**..... Heavy channel, box construction.
- BEARINGS**..... Six Timken tapered bearings mount drive shaft and cutter shafts.
- BLADES**..... High carbon steel with safety slip feature. Swinging hammer type blades are also available.
- V-BELTS**..... Heavy "D" size rubber belts.
- SAFETY SHIELDS**..... Drive shaft, pulleys, cutter wheels, and belts are enclosed.
- PARALLEL LIFT** ..... 13 to 14 inches.
- DRIVE SHAFT**..... Heavy duty, with needle bearing universal joints.

The following table shows the recommended tire inflation pressures for tractors equipped with No. 5 Stalk Cutter.

Tractor	Tire Size	Ply	Rear Wheel Equipment	Inflation Pressure without Added Wheel Weights	Maximum Permissible Additional Weight per Wheel at Maximum Inflation Pressure
A	11-38	6	Pressed Steel	16	350 at 16 lb.
A	11-38	6	Cast	16	50 at 16 lb.
AN-AW	11-42	6	Cast	16	175 at 16 lb.
G-GN-GW	12-38	6	Cast	16	750 at 20 lb.

Before attaching the No. 5 Stalk Cutter to tractor, remove all cast or liquid ballast in excess of the permissible additional weight in last column of inflation table for tire size used on tractor.

- Inflation pressure for all size front tires:
- 4-ply Rating—28 lb.
  - 6-ply Rating—36 lb.
  - 8-ply Rating—36 lb.
  - 7.50x16 8-ply Rating—48 lb.

*(Detail design is subject to change without notice)*

## OPERATING AND ADJUSTING INSTRUCTIONS

Your No. 5 Stalk Cutter should be operated on a John Deere "A" or "G" Tractor equipped with Power Lift or Powr-Trol.

### GENERAL.

Start the machine and allow cutter blades to reach operating speed before entering the row.

If tunnels become clogged, place the power take-off lever in the disengaged position, and back up slowly; then raise the machine. Place power take-off lever in engaged position and operate until blades reach cutting speed, before cutting is resumed.

*Under ordinary conditions, it is not necessary to raise machine at the end of each row.*

**CAUTION: Avoid a sudden brake application!**

### —IMPORTANT—

When cutting cornstalks, operate your stalk cutter in the same direction in which the corn picker traveled. Whenever possible operate under dry conditions. Dry stalks can be cut easily; but wet or green stalks must be cut with very sharp blades. Blades should be sharpened frequently.

Set tractor wheels as far apart as possible so they will not interfere with tunnels gathering in the stalks. See Page 8 for setting row width.

If tunnels are clogged, belts cannot turn pulleys and if attempt is made to lift machine, belts can be damaged.

**CAUTION: KEEP ALL SAFETY SHIELDS IN PLACE—KEEP ALL BOLTS TIGHT—CHECK AT LEAST ONCE A DAY.**

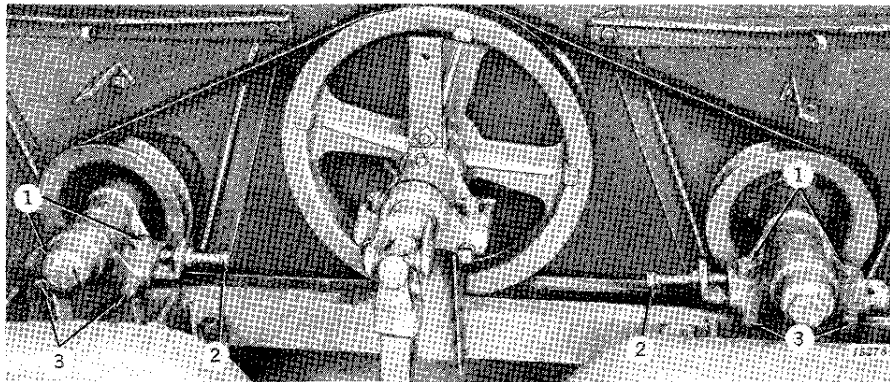


Figure 2

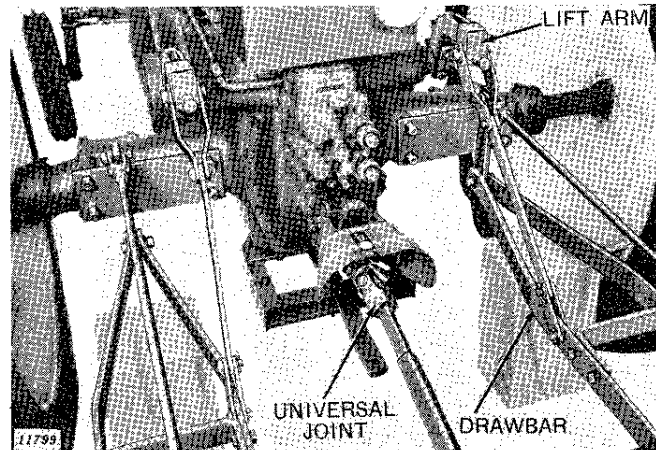
### V-BELTS.

Adjust belt tension when necessary by loosening bearing housing bolts 1, Figure 2, then adjust at screws 2. Tighten bearing housing bolts. Check belt tension at least once a day.

V-Belts are properly aligned at the factory. If future realignment is necessary adjust belts 3, Figure 2. Before starting machine, check belt tension. After 5 hours of operation, check the belt again as a new belt has an initial stretch, especially in heavy stalks. This may result in wear and slipping if not adjusted properly.

## ATTACHING TO TRACTOR.

Move tractor wheels out to the wide setting to give maximum clearance between tunnels and wheels.

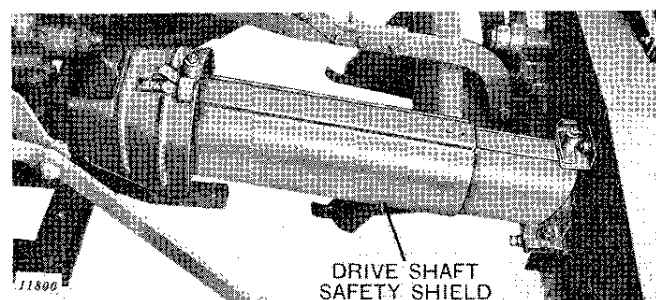


*Figure 3*

Support drawbars on blocks at height of rear axle attaching pads. Back tractor in position in front of stalk cutter. Attach drawbar plates to axle pads, Figure 3. Assemble drive shaft and slip universal joint end onto the power take-off shaft. Lock universal joint end to power take-off shaft with clamp bolt and cotter pin. *NOTE: Drive shaft can be removed or installed with drawbars and lift arms attached to tractor. With rockshaft in lowered position install lift arms to rockshaft as shown.*

**CAUTION:** Always be sure that safety shield on tractor is installed in place.

## SAFETY SHIELD.



*Figure 4*

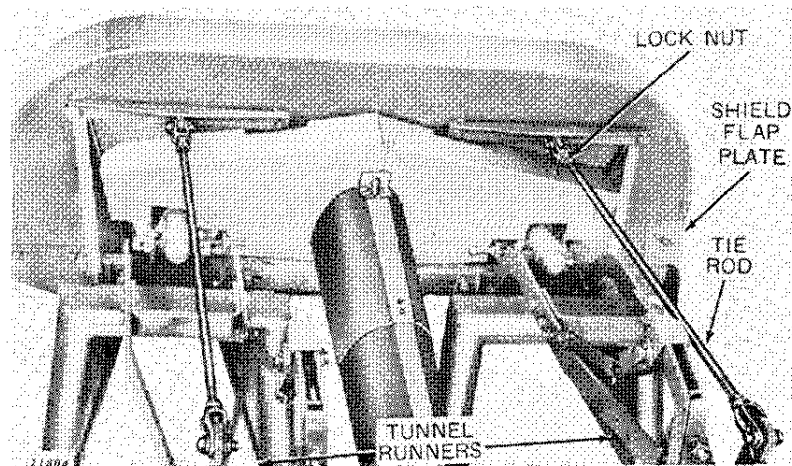
Install drive shaft safety shield, Figure 4.

**CAUTION:** It is very important that safety shields be kept in place at all times.

## BEARINGS.

Adjust cutter shaft bearings if they become loose. Remove bearing cap, and take cotter pin from hub nut. Tighten hub nut. Then back off hub nut until cotter pin can be reinserted through hub nut and shaft. Reinstall cotter pin and bearing cap. Adjust center bearing by loosening or tightening hex. nut at rear of center drive shaft. Keep bearing housing bolts tight.

## SETTING TUNNEL RUNNERS PARALLEL WITH GROUND



*Figure 5*

Parallel adjusting tie rods, Figure 5, are provided for leveling the stalk cutter from front to back. To set tunnel runners parallel with ground and bring cutter blades into the desired position, loosen clevis lock nuts and shorten or lengthen tie rods. Tighten lock nuts.

## SHIELD FLAP PLATE.

To control distance cut trash is thrown from machine and to reduce accumulation of dirt and trash on inside of shield, adjust the shield flap plate, Figure 5, to suitable angle.



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