



**John Deere**

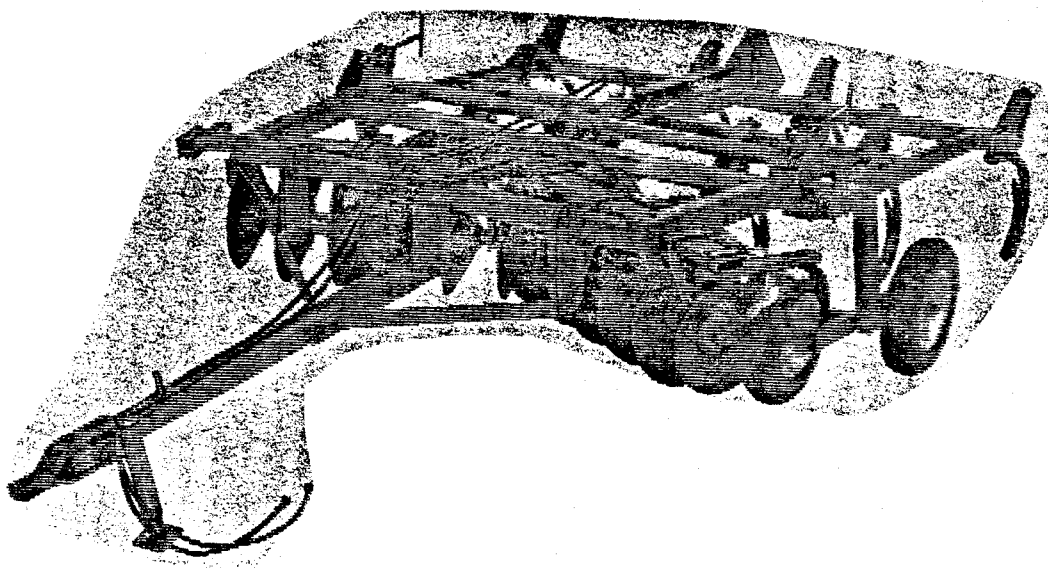
**Operator's Manual**

**1700 Series**

**OM-N159284**

**Drawn Milch Tiller**

**Issue B2**





## To the Purchaser

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This new mulch tiller was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, trouble shooting, or service. Read the Table of Contents to learn where each is located. Use the alphabetical index for fast reference.

Should your mulch tiller require replacement parts go to your John Deere dealer where you can obtain Genuine John Deere Parts—accept no substitutes. Genuine John Deere Parts fit properly and insure satisfactory service because they are made from the original patterns and from the same materials as used in the new machines.

"Right-hand" and "left-hand" sides are determined by facing the direction the mulch tiller will travel when in use.

Record your mulch tiller serial number in the space provided on page 25. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments.

The warranty on this mulch tiller appears on your copy of the purchase order which you should have received from your dealer when you purchased the mulch tiller.

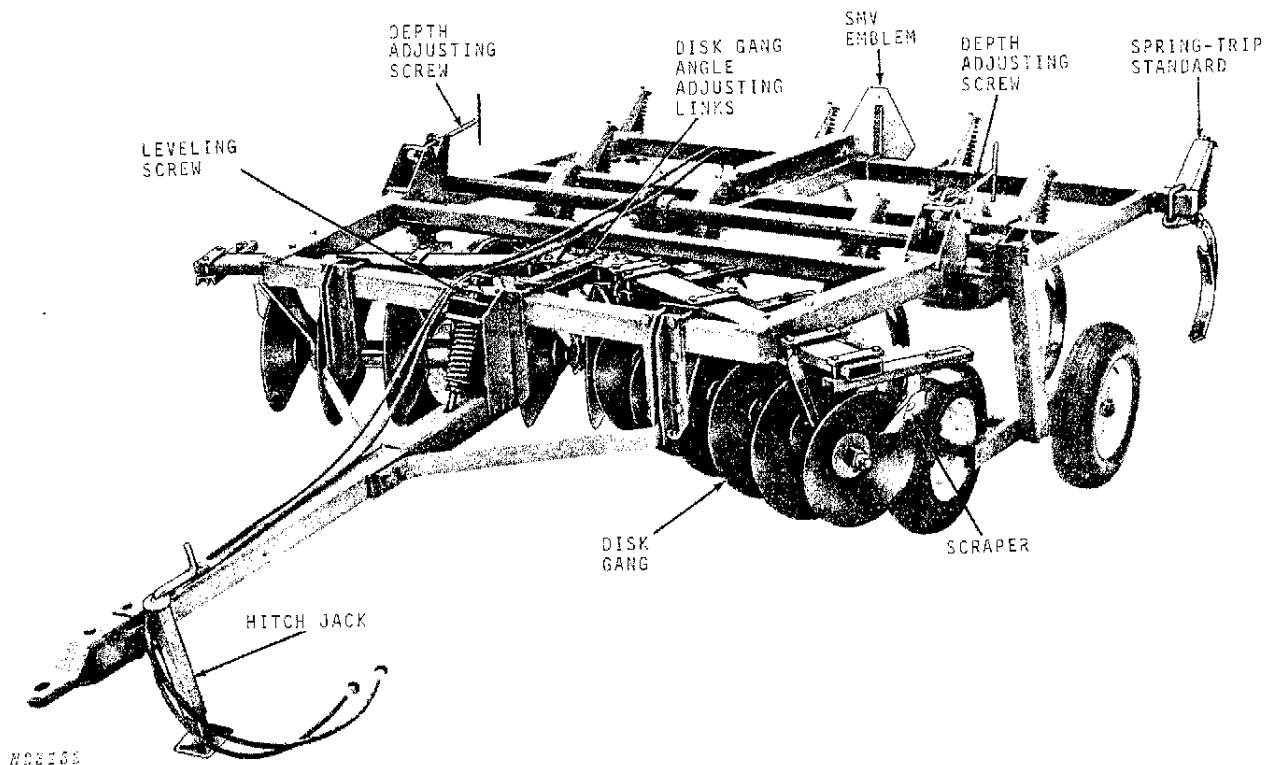


This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



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John Deere 11-Foot 1700 Mulch Tiller



# Operation

## DESCRIPTION

The 1700 Mulch Tiller is ideally suited for stubble-mulch and deep fallow tillage operations. The mulch tiller is designed so that you can work your stubble right after harvest. An operating depth of approximately 10 inches can be obtained to catch and hold available moisture.

Disk blades cut the stubble ahead of the plow tools. The plow tools rip down through the plow-sole layer, opening the soil deep so air and water can get in. The surface of the soil is left open and blended with residues that protect the top soil. Residues decompose faster into humus, thereby creating drought resistance and stronger crop root growth the following year. The soil surface is left moderately ridgy, giving moisture a chance to soak in rather than run off. Wind erosion is kept to a minimum, because of the stubble being mixed into the soil and the ridges being left by the plow tools.

Primary depth of operation is controlled by the remote hydraulic cylinder with hydraulic depth stop.

The cutting angle of the disk gangs and penetration of tools is accomplished through manual adjustments.

For secondary tillage with the 1700 Mulch Tiller, it is recommended the twisted shovels be replaced with sweeps, and the disk cutting angle be reduced to a minimum to prepare a level seed-bed.

## PREPARING MULCH TILLER

Before taking the mulch tiller to the field, lubricate it as shown on pages 8-9. Check tire pressure and inflate to 40 psi if necessary. Make sure all nuts on bolts are tightened to the torque specified on page 10.

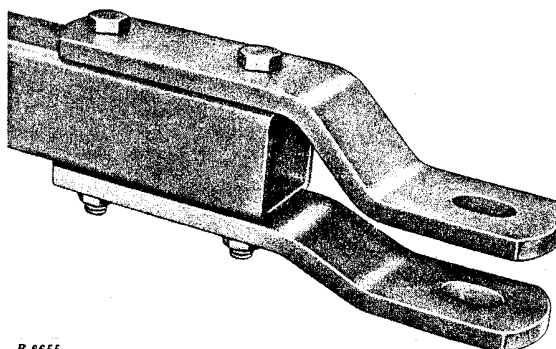
## ATTACHING TO TRACTOR

The recommended tractor drawbar height is 15 inches.

Adjust the tractor drawbar height as shown in your tractor operator's manual.

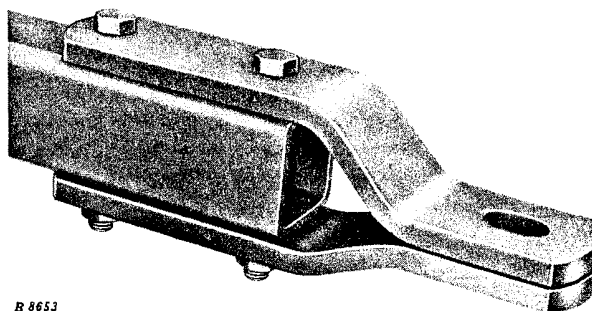
The 1700 Mulch Tiller is considered a high draft load machine, see your tractor operator's manual for tractor ballast.

### Hitch Clevis Plates



B 8655

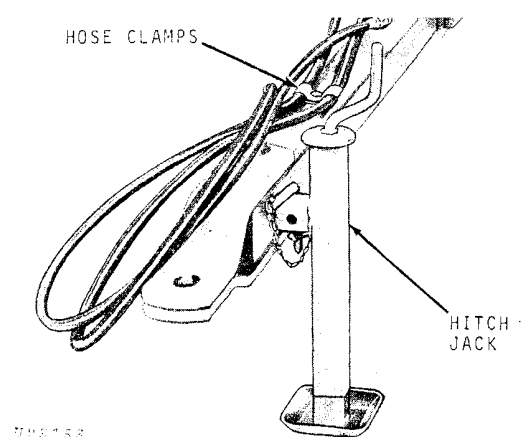
*Hitch Clevis Plates Assembled For Tractors  
Equipped With A Straight Drawbar*



B 8653

*Hitch Clevis Plates Assembled For Tractors  
Equipped With Hammerstrap*

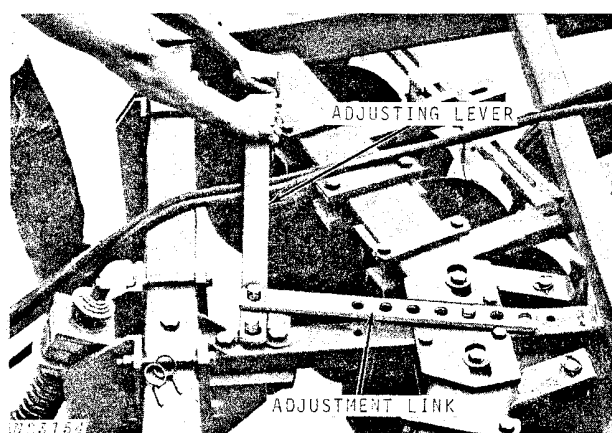
The hitch clevis plates can easily be assembled for tractors with either a straight drawbar or equipped with hammerstraps as shown above.



Before attaching to the tractor, be sure the hydraulic hoses are positioned in the hose clamps as shown.

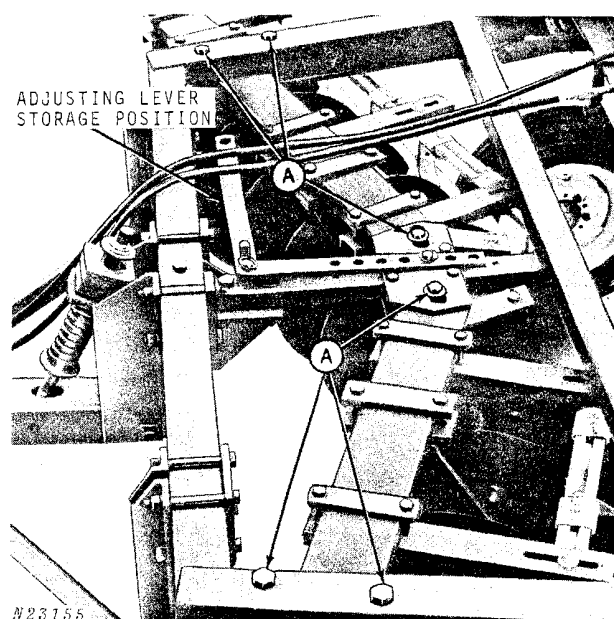
Remove the tractor drawbar pins which hold the drawbar in a fixed position, then back the tractor up to the hitch and hook up the hydraulic hoses to the tractor outlets. Attach the hitch to the tractor drawbar with the hitch pin. If the mulch tiller is equipped with a hitch jack, position the jack in transport position.

### ADJUSTING LEVER



An adjusting lever is furnished to level the mulch tiller for transport and field operation. Also, it is used to loosen the disk gang bolts and adjust the cutting angle of the disks.

### ADJUSTING DISK GANG CUTTING ANGLE



The cutting angle of the disk gang is adjustable from ten to twenty-five degrees in two and one-half degree increments.

**NOTE:** The initial setting for disk gang angle is 20 degrees as shown. Adjustments made to obtain the desired results start from the 20 degree disk gang angle.

To adjust the cutting angle, loosen the six gang frame bolts at "A"; then remove the adjusting lever from its storage position and assemble with adjusting link over stud as shown.

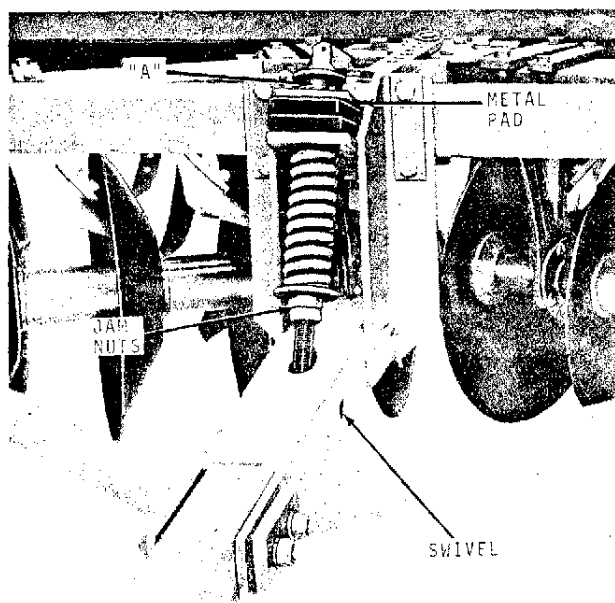
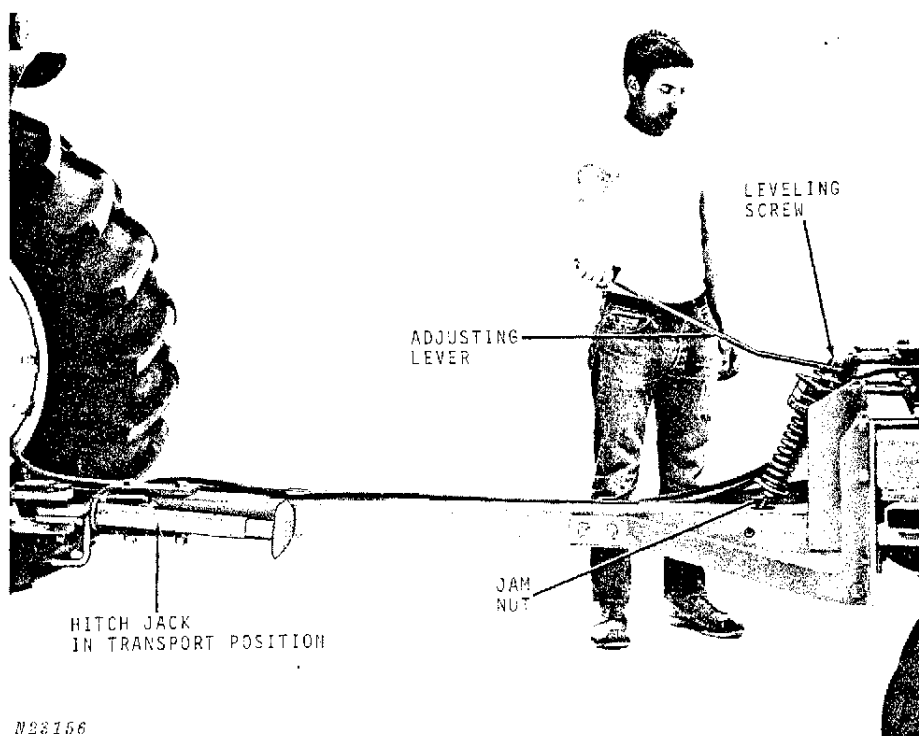
To increase the cutting angle, push the adjusting lever to the rear.

To decrease the cutting angle, pull the adjusting lever to the front.

**IMPORTANT:** After disk gang cutting angle is obtained, tighten the six gang frame bolts to secure the cutting angle.

Replace the adjusting lever in its storage position.

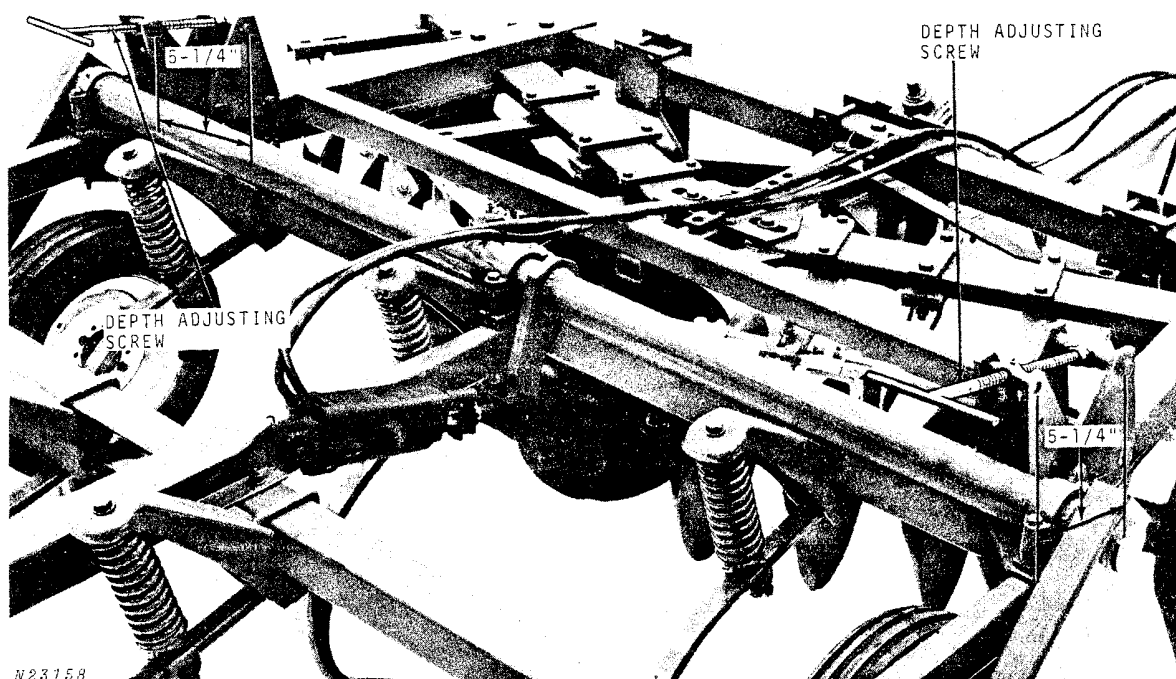
## LEVELING MULCH TILLER FROM FRONT TO REAR



To level the mulch tiller, lower the machine to the ground. Tighten jam nuts to end of upper threads on leveling screw. Make sure jam nut is tightened as tight as possible.

Place adjusting lever on leveling screw and turn leveling screw to level mulch tiller. A minimum of 1/2-inch of the leveling screw must be exposed above the metal pad on the upper end of the leveling screw "A", and a full body or more of the leveling screw threads must be maintained in the swivel at the lower end of the leveling screw.

## DEPTH ADJUSTING SCREWS



The relationship in depth of operation of the disk gang and tools is calibrated by adjusting the depth adjusting screws.

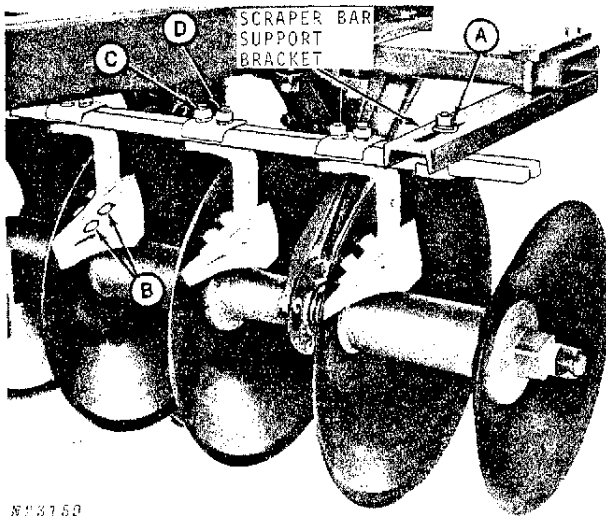
The initial dimension, center-to-center of depth adjusting screw swivels is 5-1/4 inches; however, variations in field conditions from one field to another and sometimes in the same field can have an effect on the operation of the mulch tiller.

To increase the depth of penetration of the tools, and decrease the depth of penetration of the disk gangs, turn the depth adjusting screws counterclockwise.

To increase the depth of penetration of the disk gangs, and decrease the depth of penetration of the tools, turn the depth adjusting screws clockwise.

**IMPORTANT:** When adjustments are made to meet different field conditions, the 5-1/4-inch dimension of the leveling screws will change; however, as the dimension is changed, both screws must be adjusted equally.

## ADJUSTING SCRAPERS



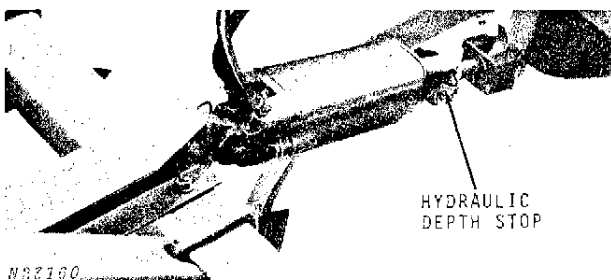
The holes in the top of each scraper bar are slotted at "A," so that by adjusting the scraper bar all the scrapers on the bar can be moved in or out at one time.

Adjust the bar so that the scrapers are flush against the disk blades. Individual adjustment can be made on each scraper at "B" or "C" and "D."

Adjust blades at "B" so the scraping edge of each scraper blade is flush against the disk blade, but not tight enough to prevent the gang from revolving freely.

To move the scraper closer to the blade, loosen bolt "D" and tighten bolt "C."

## ADJUSTING HYDRAULIC CYLINDER DEPTH STOP



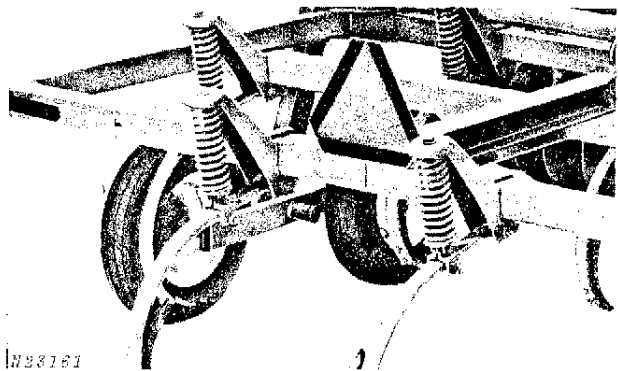
Primary depth of operation of both the disk gangs and rear tool section is controlled by the position of the remote hydraulic cylinder depth stop.

To increase depth of penetration, release the lock on the depth stop and move the depth stop toward the yoke on rod end of the cylinder.

To decrease depth of penetration, release the lock on the depth stop and move the depth stop toward the stop rod on the cylinder.

After adjustment is made, lock the depth stop in place.

## TRANSPORTING



Keep the SMV emblem furnished with the mulch tiller clean and in place at all times.

**CAUTION:** When transporting the mulch tiller use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Never transport the mulch tiller at a greater speed than 10 mph.



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