

# **480 MOWER AND CONDITIONER**



## **OPERATORS MANUAL 480 MOWER AND CONDITIONER**

OME43104 K7    English

**OME43104 K7**

LITHO IN THE U.S.A.  
ENGLISH



## INTRODUCTION

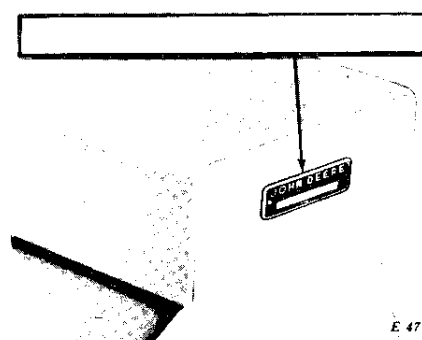
Your new John Deere Mower and Conditioner is a dependable machine. With proper care and operation you can expect to receive the service and long life designed and built into it. Like any precision machine, it will require some attention at regular intervals. When any questions arise regarding lubrication and adjustments, etc., use your manual as a guide to service your machine the RIGHT WAY.

If you find yourself in need of additional information or special servicing not covered in this manual, see your John Deere dealer. He is in a position to answer your questions for you.

When in need of parts, either to replace worn parts or to make emergency repairs, see your local John Deere dealer.

When ordering parts give your dealer the model and serial number of your mower and conditioner. This information will help him give you prompt and efficient service.

The serial number of your mower and conditioner is located on the left side of the main frame. (Record it in the space below.)



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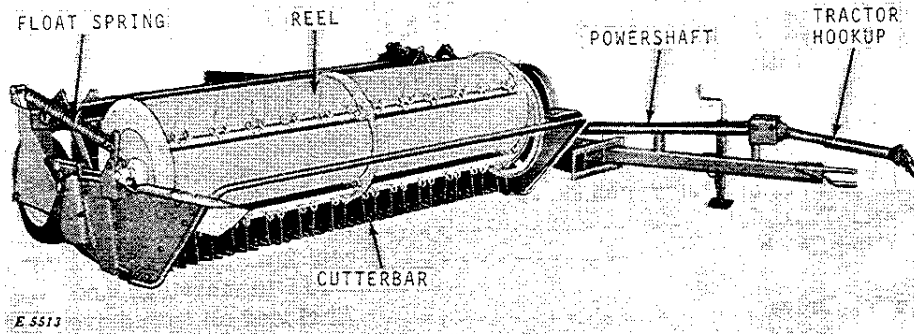
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## SPECIFICATIONS

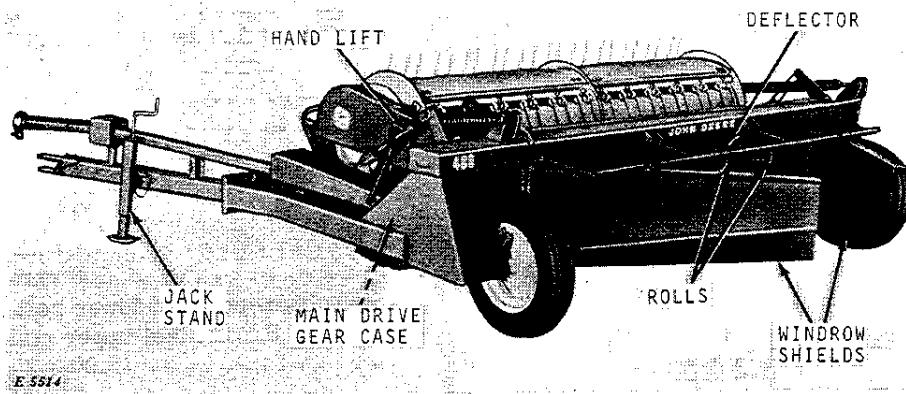
Length .....	12 ft. 5 in.
Width: Operating .....	12 ft. 11 in.
Transport .....	11 ft. 9 in.
Height .....	43 in.
Weight .....	2300 lbs.
Width of Cut .....	8 ft. 9 in.
Size of Tractor Recommended .....	35 hp or larger
Power Take-Off .....	540 or 1000 rpm
Cutting Height .....	From 2 in. below ground level to 5 in. above ground level
Knife: Drive .....	Enclosed oil bath drive head
Speed .....	1400 strokes per minute
Stroke .....	3 in.
Cutterbar: Knife Guards .....	Forged steel
Sections .....	Overserrated chrome (standard) chromed underserrated and smooth also available
Reel: Speed .....	58 to 68 rpm
Drive .....	V-belt
Diameter .....	42 in.
Reel Slats .....	4
Conditioner Rolls: Length .....	102 in.
Diameter .....	7 in.
Speed .....	800 rpm
Construction .....	Rubber-covered lower roll, fluted steel upper roll
Wheels: Tire Size .....	5.90 x 15
Tire Pressure .....	28 psi
Bearings: Gear Case .....	4 tapered roller
Knife Drive .....	6 needle and 1 ball
Rolls .....	4 self-aligning ball
Wheels .....	4 tapered roller

*NOTE: Right- and left-hand sides referred to in this manual are determined from a position at the rear of the machine facing in the direction of travel.*

*(Specifications and design subject to change without notice.)*



*Right-Hand Front View of John Deere 480 Mower and Conditioner*



*Left-Hand Rear View of John Deere 480 Mower and Conditioner*

## OPERATION

### DESCRIPTION

The 480 Mower and Conditioner cuts, conditions, and windrows (extra equipment) in one trip around the field.

The 480 has a cutting width of 8 feet 9 inches. The pickup reel insures clean cutting and positive feeding of crops.

The conditioning rolls are designed to effectively condition any heavier stems and stalks, at the same time providing ample space for tender leaves and small stems to pass through the rolls without damage.

Crushing of the stems permits the moisture to escape from the stems at the same rate as from the leaves, providing a fast, uniform curing of the crop.

Under some conditions the reaction of the crop will not show up immediately, but within an hour or two, the crop will begin to dry. This should be kept in mind when operating so unnecessary adjustments will not be made.

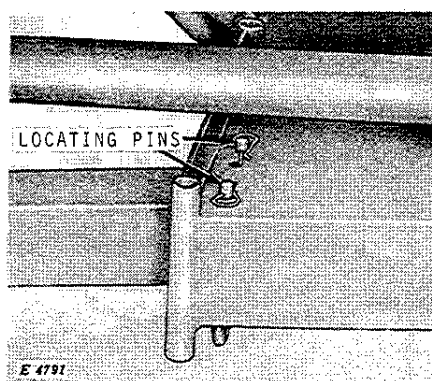
### PREPARING MOWER AND CONDITIONER

Check tires for proper operating inflation pressure of 28 psi.

Do not start tractor until mower and conditioner has been carefully checked for correct assembly. See that all nuts are tight and cotter pins spread.

Be sure all moving parts work freely and are properly lubricated.

### POSITIONING TONGUE



The tongue can be placed in either of two operating positions or a transporting position. Remove the locating pins, set tongue in desired position, and replace the locating pins.

### PREPARING TRACTOR

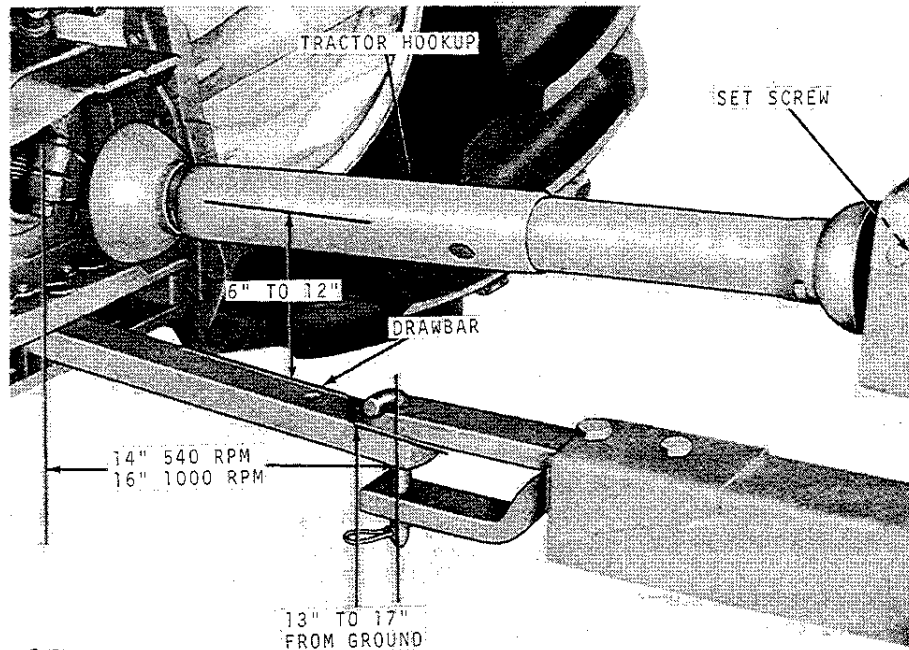
Adjust tractor drawbar so it measures 14 inches (for 540 rpm PTO) or 16 inches (for 1000 rpm PTO) from end of PTO shaft to hitch pin hole in drawbar, and 6 to 12 inches from center of the PTO shaft to the top of drawbar. The top of the rear end of the drawbar should be 13 to 17 inches from the ground. The drawbar hitch pin hole must be aligned vertically with the center line of the tractor PTO shaft. (See page 4.)

Move right-hand tractor wheel in as necessary to prevent running over uncut crop.

The tractor tire inflation pressures specified in the tractor operator's manual will apply.

## 4 Operation

### HITCHING TO TRACTOR



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#### PTO SPEEDS

The mower and conditioner can be attached to any tractor having a drawbar and power take-off that conforms to ASAE-SAE standards and having a PTO speed (540 or 1000 rpm) to match the powershaft speed of the conditioner.

**CAUTION:** Never hook up a 540 rpm mower and conditioner to a 1000 rpm tractor.

#### ATTACHING TO DRAWBAR

Hitch mower and conditioner to tractor drawbar. The hitch plates may be turned over for less ground clearance or mounted under the tongue, as shown, for more ground clearance. They should be set to

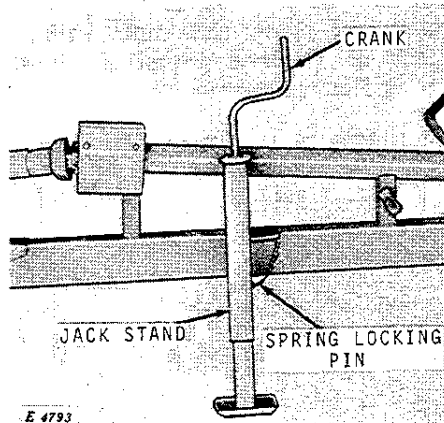
keep the power line as straight as possible. When using 540 rpm mower and conditioner and tractor, make sure the tongue is equipped with the long (12-3/4-inch) hitch plates. Use the short (11-inch) hitch plates for 1000 rpm operation.

#### CONNECTING UNIVERSAL JOINTS

Attach the rear end of the mower and conditioner universal joint to the powershaft and secure it with the clamp bolt. Attach the front end of the universal joint to the tractor powershaft and secure it.

**NOTE:** Never use a steel hammer when attaching or removing universal joints. Keep the universal joint splines clean.

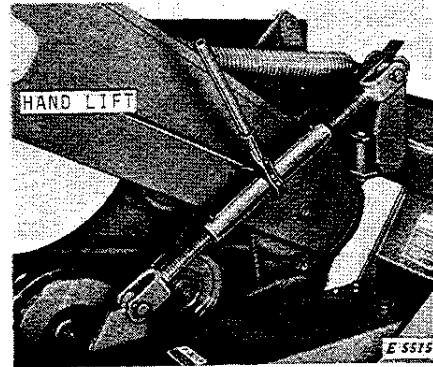
## JACK STAND



During operating or transporting, the jack stand (located on the side of the tongue) is locked firmly out of the way by removing the spring locking and holding pin; then pivoting the stand to the horizontal position. Lock the stand in this position with the holding pin and the spring locking pin. Always position the handle to the rear as shown.

When unhitching the tractor from the mower and conditioner, place the jack in the vertical position and secure it with the holding pin and spring locking pin. Crank the stand down until it reaches the ground. Several more turns will remove the mower and conditioner weight from the tractor drawbar, allowing you to pull the hitch pin and free the tractor.

## LIFT CONTROL

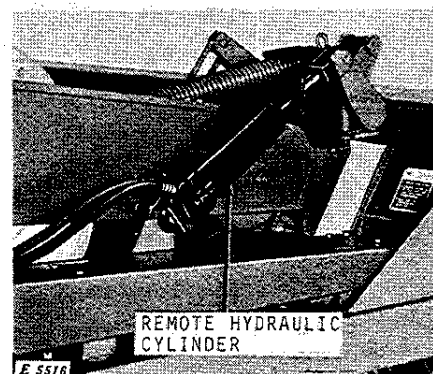


A ratchet-type hand lift or a remote hydraulic cylinder is used to raise the platform from the ground. For convenience, using the remote cylinder is recommended.

If a remote hydraulic cylinder is used, it must conform to ASAE-SAE standards. Use 36-inch hose extensions for this installation.

**CAUTION:** Never raise or lower cutting platform with transport lock pin in the front hole. Always remove lock pin from front hole and place in rear hole after installing lift control.

*NOTE: Refer to your tractor operator's manual for correct information regarding the tractor hookup of the remote hydraulic cylinder oil lines.*



## 6 Operation

### FIELD OPERATION

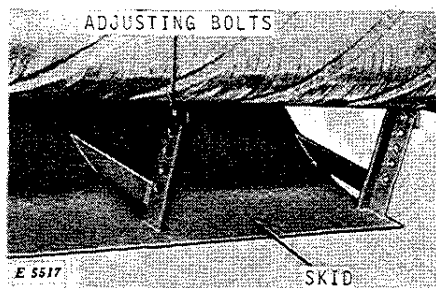
Start tractor engine and while idling, slowly engage PTO. Let mower and conditioner run slowly for a while. Observe all moving parts to see that they operate freely and normally.

**CAUTION:** Never adjust machine while it is running.

Operate tractor engine to obtain the SAE rated PTO speed. Running the engine at slow speed may cause the mower and conditioner to clog where the crop is heavy. Where difficult conditions make it necessary to slow down the travel speed of tractor, shift to a lower gear rather than reduce the engine speed. By shifting to a lower gear, the engine will maintain its rated speed, which will keep the rolls and cutterbar running at the proper speed for best results.

**IMPORTANT:** Do not engage PTO with engine running at high speed. To do so may cause undue wear or possible breakage.

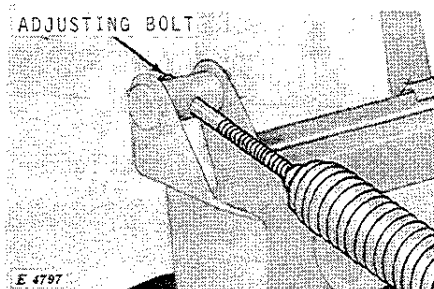
### ADJUSTING CUTTING HEIGHT



The adjustable skid helps to gauge an even cutting height and also helps to prevent the cutterbar from digging into the ground when cutting over irregular ground.

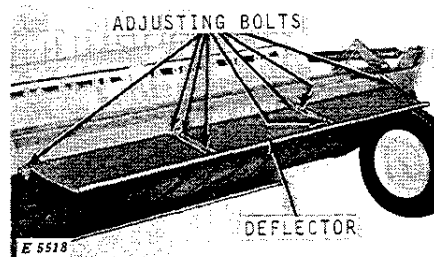
To adjust skid to a different cutting height, remove four adjusting bolts and place skid into desired position. Replace adjusting bolts. Check float adjustment.

### ADJUSTING PLATFORM FLOAT



When adjusting the skid for desired cutting height, adjust the float springs for ground pressure of 50 pounds. To measure ground pressure, lift cutting platform at the knockdown bar. Turn the adjusting bolts to increase or decrease the float spring tension which increases or decreases the ground pressure. Adjust both float springs equally.

### ADJUSTING DEFLECTOR



Adjust the hinged deflector to deflect the hay downward in fluffier, faster-curing swaths.

Loosen the eight adjusting bolts and adjust the deflector until desired fluffing results without bunching. Tighten the eight adjusting bolts.



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