

500 Series Rod Weeder



JOHN DEERE

OPERATORS MANUAL

500 Series
Rod Weeder

OMN97621 A7 English

OMN97621 A7

LITHO IN U.S.A.
ENGLISH



TO THE PURCHASER

The purpose of this manual is to furnish valuable information about your new John Deere 500 Series Rod Weeder. In this manual, you will find instructions and helpful suggestions for operating, hitching, adjusting, lubricating, and assembling your new weeder.

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 machine, 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 weeder requires special servicing, see your John Deere dealer. He will be glad to serve you.

Sometime in the future, your weeder may need new parts to replace worn or broken parts, or emergency service may be required that is not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer, which assure you of genuine John Deere parts and prompt "know-how" service in the field or shop.

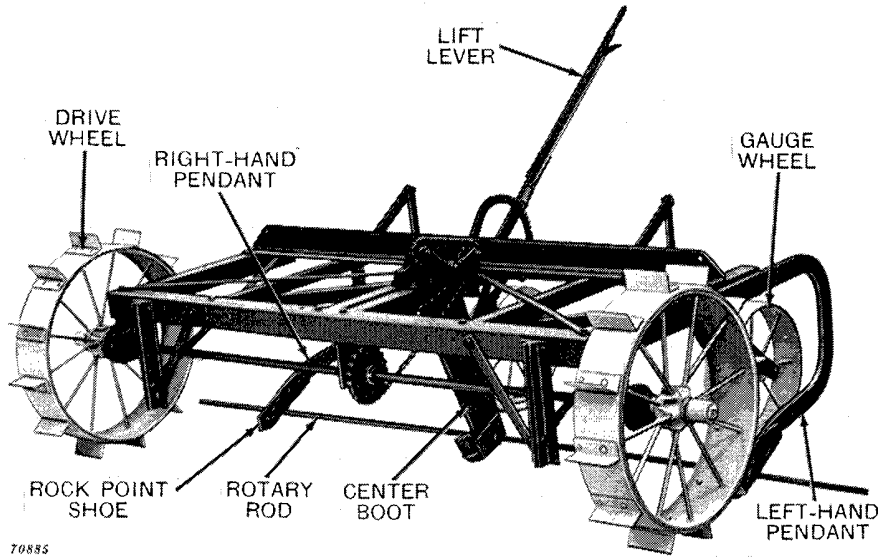
When ordering parts, provide your dealer with the model number of your Rod Weeder, its type, and year purchased. This information will help him to identify the part you need. We suggest that this information be recorded immediately in the space provided below, thereby making it available for future reference.

By giving your weeder proper attention during slack periods, it will always be ready for use, without delays, when you need it.

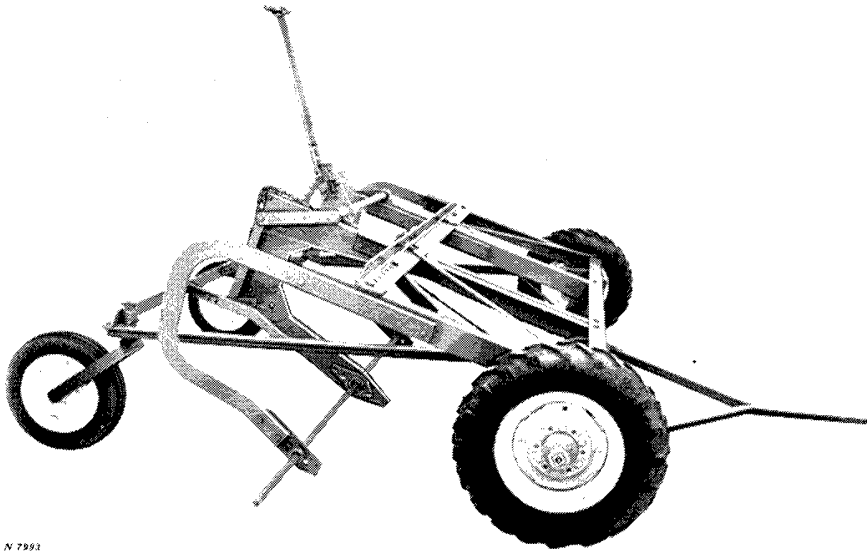
John Deere No.....	Rod Weeder
Date Purchased.....	19....

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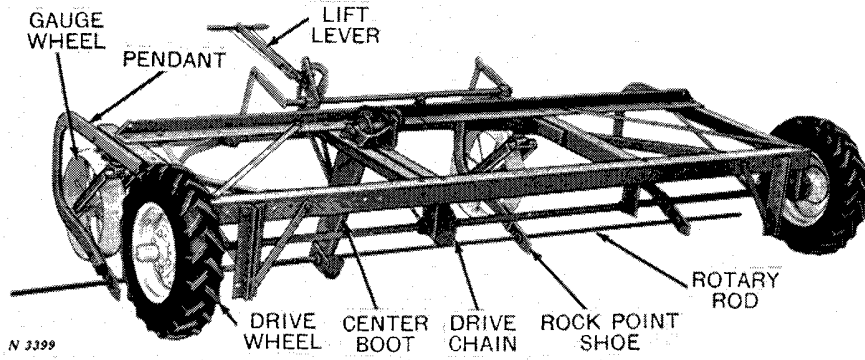
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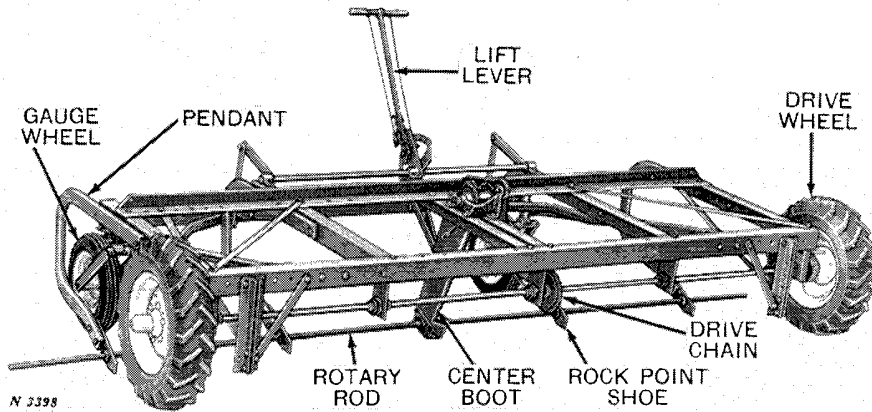
John Deere 510A Rod Weeder, 10-Foot with Steel Wheels



John Deere 512A Rod Weeder, 12-Foot with Center Drive Pendant



John Deere 514A Rod Weeder, 14-Foot, with Rubber-Tired Drive Wheels and Concave Steel Gauge Wheels



John Deere 514B Rod Weeder, 14-Foot, with Rubber-Tired Wheels

SPECIFICATIONS

SERIES

500 Drawn Rod Weeder consists of four models, all of which are equipped with heavy-duty pendants and steel wheels.

MODELS

510A Rod Weeder, 10-foot, 3 pendants

512A Rod Weeder, 12-foot, 4 pendants

514A Rod Weeder, 14-foot, 4 pendants

514B Rod Weeder, 14-foot, 5 pendants

ROTARY ROD LENGTH

510A Rod is 10 feet 6 inches

512A Rod is 12 feet 6 inches

514A Rod is 14 feet 6 inches

514B Rod is 14 feet 6 inches

OPERATING SPEED

3 to 5 miles per hour

OPTIONAL EQUIPMENT

Pendant Shape Drive Boot in lieu of Jackshaft Bracket and Center Boot on 510A with hand or hydraulic lift and on 512A, 514A or 514B with hand lift.

Pendant Pointed Shoes may be ordered in lieu of regular Rock Point Shoes.

Rubber-Tired Gauge Wheels with Tires, or Concave Steel Gauge Wheels, may be ordered in lieu of Convex Steel Gauge Wheels.

Rubber-Tired Drive Wheels, with Tires, or Rubber-Tired Drive Wheels, less tires, may be ordered in lieu of steel wheels.

1-inch square Rotary Rod may be ordered in lieu of 7/8-inch square Rotary Rod.

16-Foot Rotary Rod for 514B Rod Weeder, 7/8-inch square or 1-inch square.

EXTRA EQUIPMENT

Hydraulic Lift for 510A, with center boot or center drive pendant and for 512A, 514A, and 514B Rod Weeders with center boot.

High Speed Drive Sprockets for all models.

Hitches.

Single Unit Hitch for any model.

Wide Single Unit Hitch for 514A and 514B Rod Weeders.

2-510 Cable Hitch for two 510A Rod Weeders.

3-510 Cable Hitch for three 510A Rod Weeders

2-512 Cable Hitch for two 512A Rod Weeders.

3-512 Cable Hitch for three 512A Rod Weeders.

2-514 Cable Hitch for two 514A or 514B Rod Weeders.

3-514 Cable Hitch for three 514A or 514B Rod Weeders.

Endwise Transport Hitch for one or more units.

Rubber-Tired Transport Wheels.

OPERATION

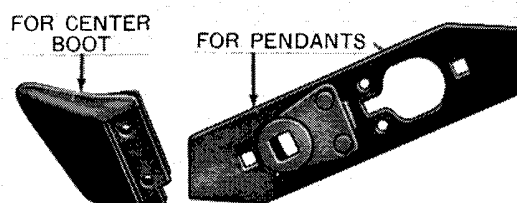
GENERAL

The John Deere 500 Series Rod Weeder is a drawn unit of simple, sturdy construction, incorporating many outstanding features to assure long life and rugged dependability.

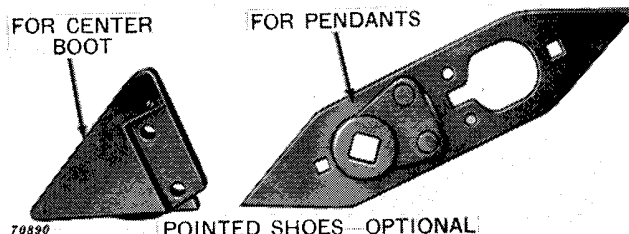
The center drive has an enclosed chain within either a narrow center boot or a center drive pendant. Two large drive wheels, connected to the drive axle by ratchets, provide continuous rotation of the rotary rod. The drive axle and the gauge wheels are mounted on roller bearings. A 1-1/4-inch pitch implement roller chain is used throughout the drive to insure positive non-clogging operation.

Extreme rearward center of gravity is provided for most efficient penetration of the square rod. A single lever in the center of the 510A Rod Weeder raises the rod for transport and lowers it to operating position. Because of greater weight to be lifted on the 12- and 14-foot machines, a unique ratchet type lever is used to raise and lower the machines for depth gauging. If rod weeder is equipped with hydraulic lift, it can be raised and lowered by the tractor hydraulic control lever.

Heavy-duty, 1 x 3-inch pendants are used on all models. Heavy-duty pendants are especially designed for use in rocky soil. The rock-point shoes, illustrated below, are regular equipment and should be used in rocky soil conditions where the pendants may strike hidden rocks. However, in rock-free soil, it may be desirable to use the pointed shoes, also illustrated below.



N 913 ROCK POINT SHOES—REGULAR

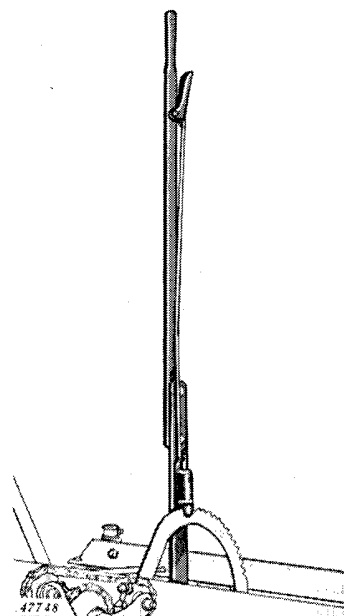
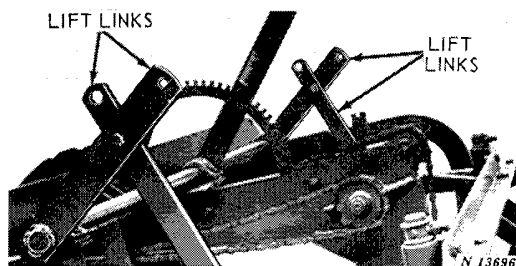


70890 POINTED SHOES—OPTIONAL

LIFT LEVER FOR 510A ROD WEEDERS

The lever at right raises and lowers the rotary rod. For deep weeding, set the lever all the way forward as shown. For less depth, move the lever to the rear. To raise the rod out of the ground, pull the lever all the way to the rear.

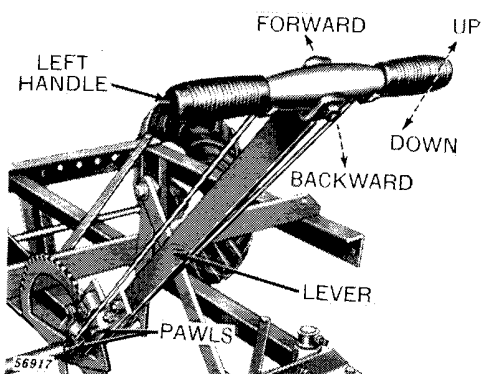
You can raise the rod easier by bolting the lift links in the lower holes as shown below. For transporting, bolt the lift links in the top holes so the rod rides higher off the ground.



LIFT LEVER FOR 512A, 514A, AND 514B ROD WEEDERS

The lever shown below raises and lowers the rotary rod with a jacking action. Two pawls at the base of the lever lock the rod in position.

To raise the rod, push the left handle down and move the lever forward as far as possible. Then rock the right handle down and move the lever backward as far as possible. Repeat this jacking action until the rod reaches the desired level. Lock the pawls in the quadrant by leveling the handles. A stop prevents you from moving the lever too far to the rear.



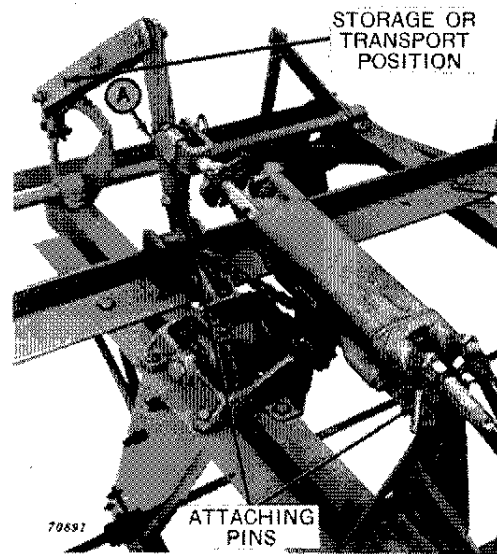
To lower the rod, push the right handle down and move the lever backward as far as possible. Then rock the left handle down and move the lever forward as far as possible. Repeat this action until rod reaches the desired position. Level both handles to lock the pawls in the quadrant.

HYDRAULIC LIFT

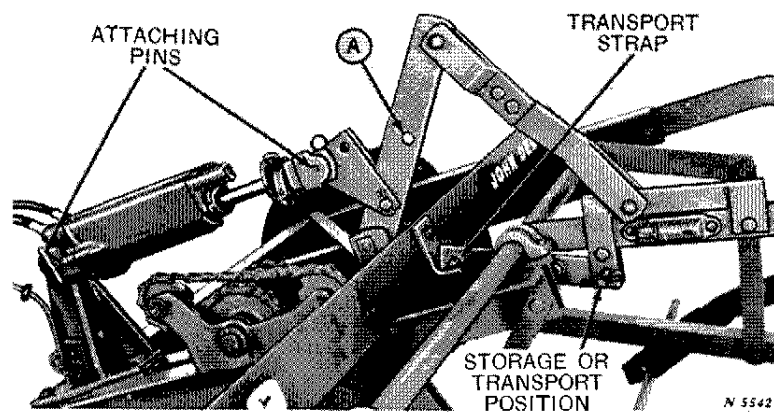
The depth of operation of a hydraulic lift rod weeder is accurately controlled by the operator from the tractor seat by means of the tractor's hydraulic system. For operation of the hydraulic system, see your tractor operator's manual. To place the rod weeder in operating position, install cylinder with two attaching pins, extend cylinder so pin can be removed from the storage or transport hole and place the pin in hole "A."

To remove hydraulic cylinder from the rod weeder, raise the weeder to the lift position, remove pin from hole "A" and place it in storage or transport position. Relieve the load on the cylinder and remove attaching pins. The rod weeder will then be held in the lifted position and can be stored or transported without replacing the cylinder.

For transporting the 510A Rod Weeder, position the transport strap as shown below.

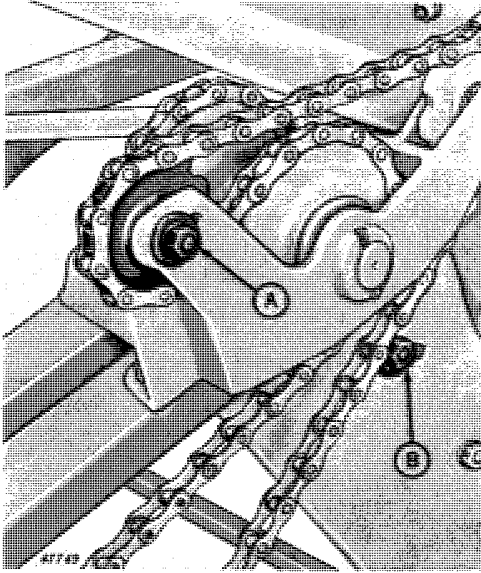


512A, 514A, 514B Rod Weeders



510A Rod Weeder

CENTER BOOT



Adjusting Upper Drive Chain

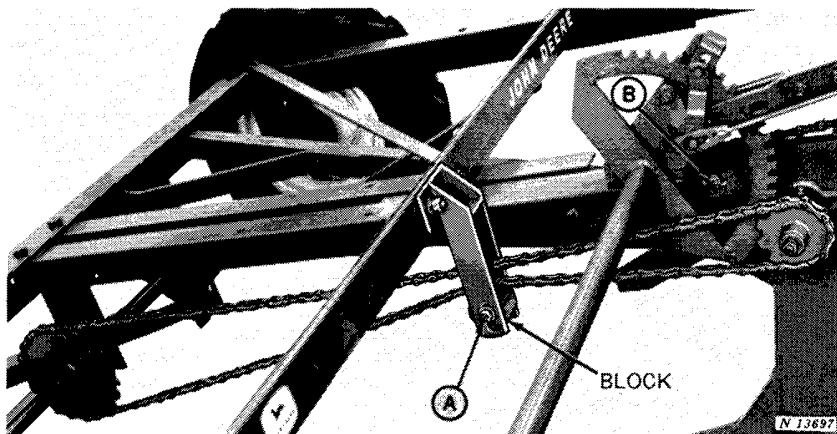
The tension of the upper drive chain can be adjusted by use of the chain tightener sprocket, "A," shown at left. To adjust, loosen the bolt, place the sprocket in the desired position, and retighten the bolt. Moving the sprocket toward the rear will loosen it. Operate with the chain tight, but avoid any extreme tightness that would cause excessive wear on the chain.

Adjusting Lower Drive Chain

The lower drive chain can be tightened or loosened by adjustment of the chain tightener sprocket, "B," shown at left.

This will enable you to take up a small amount of slack without removing links from the chain. To adjust, loosen the bolt, slide the sprocket to the desired position, and retighten the bolt. Moving the sprocket upward in the slot will increase tension, and downward will decrease tension. Operate with the chain tight, but avoid any tightness that would cause excessive wear on chain.

CENTER DRIVE PENDANT



Adjusting Upper Drive Chain

The tension of the upper drive can be adjusted by use of chain tightener block "A." To adjust, loosen the bolt, slide the block to the desired position, and retighten the bolt. Operate with the chain tight, but avoid any extreme tightness that would cause excessive wear on the chain.

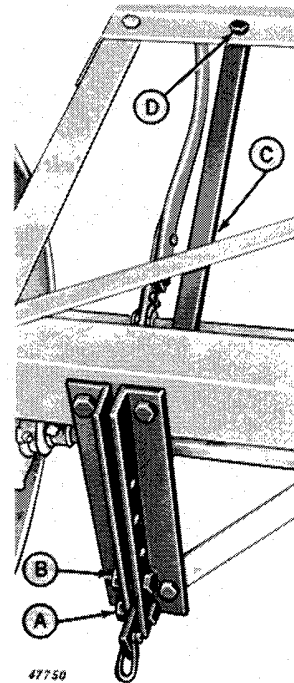
Adjusting Lower Drive Chain

The lower drive chain can be tightened or loosened by adjustment of the chain tightener sprocket "B."

To adjust, loosen the bolt, slide the sprocket forward in the slot to increase tension, and backward to decrease tension. Operate with the chain tight, but avoid any tightness that would cause excessive wear on the chain.

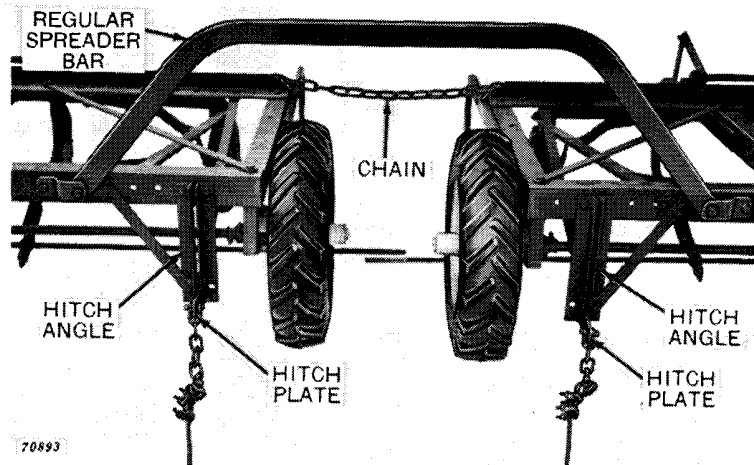
ADJUSTING HITCH FOR PENETRATION

For maximum rod penetration, the hitch must be set in the lowest possible position, "A," shown at right. To decrease the amount of penetration, raise the hitch point to one of the higher holes. If it becomes necessary to attach the hitch to the second hole, "B," remove the hitch support brace, "C," by removing bolts at "B" and at "D." This will leave the hole at "B" open for the hitch attaching point. Reinstall the hitch support brace with bolts at "A" and "D." Note that it is necessary to use rear hole in brace at "D," when attaching front end of brace to lower point "A." Be sure to set both sides similarly.

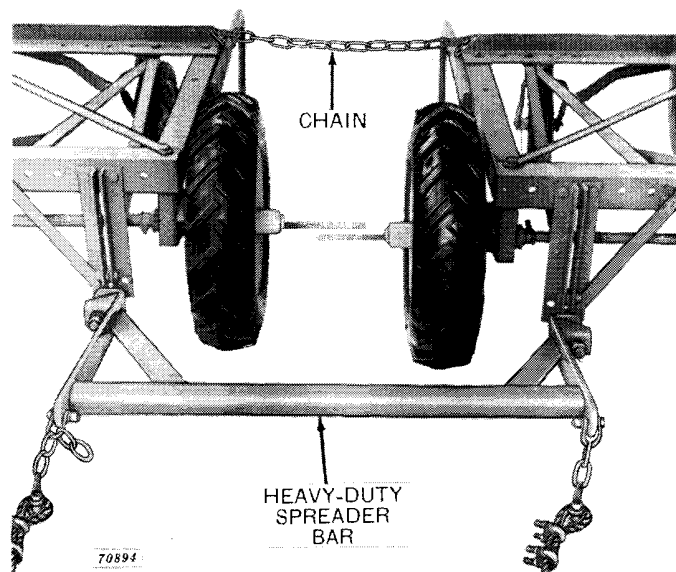


HITCHING

The 500 Series Rod Weeder can be operated as individual units with a rigid single unit hitch or in two- or three-unit cable hitch combinations.



Multiple Hitch with Regular Spreader Bar



Multiple Hitch with Heavy-Duty Spreader Bar

To hitch machines for multiple operation connect weeders laterally with a spreader attached to the front of each adjoining weeder as shown above. Connect weeders at the rear with a tie chain. Attach a hitch plate to hitch angles at each end of the weeder or if the heavy-duty spreader bar is used connect a clevis to the spreader bar. Use offset hitch plates on the outer hitch angles.

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