



OPERATORS MANUAL

250F Series Chisel Plow

OMN159039 L5 English

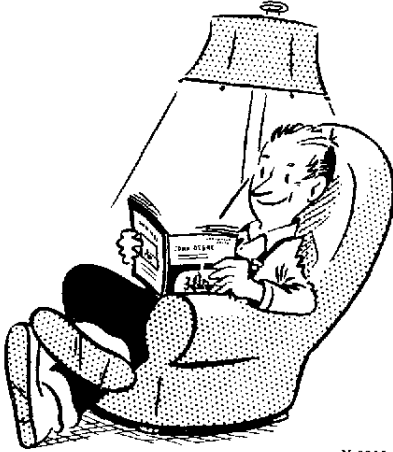
OMN159039 L5

LITHO IN U.S.A.
ENGLISH



TO THE PURCHASER

This operator's manual has been carefully prepared to provide the necessary information regarding assembly, operation, and adjustments so that you may obtain maximum service and satisfaction from your new Chisel Plow.



N 3211

Study this manual carefully and keep it handy in a safe place for future reference.

Right-hand and left-hand reference is determined by standing at the rear of the chisel plow and facing the direction of travel.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation of your machine. Your John Deere dealer has trained mechanics who are kept informed on the best service methods and will render you prompt service if needed.

Occasionally, your chisel plow may need new parts to replace worn parts. If you will furnish your dealer the description and the information which should be recorded below when the chisel plow is delivered, he can give you prompt and efficient parts service.

John Deere 250F Series Chisel Plow

No. of Chisel Plow

No. of Tool Equipment

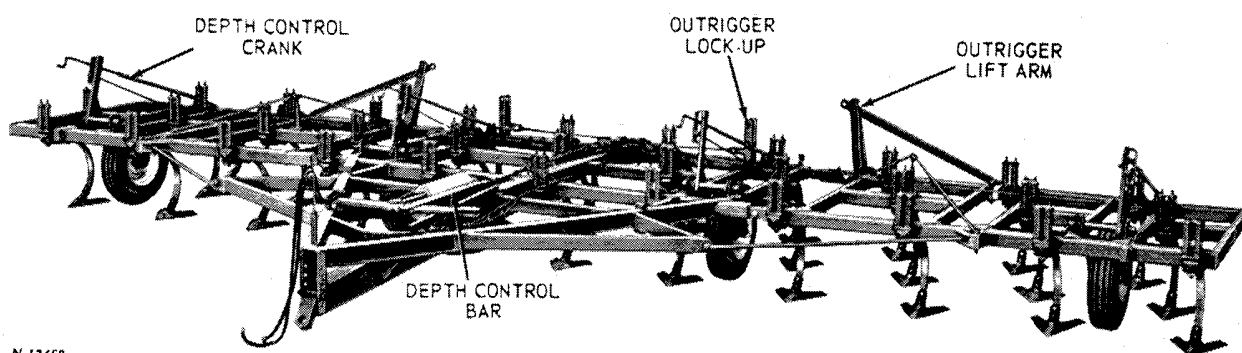
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(To be filled in by purchaser)



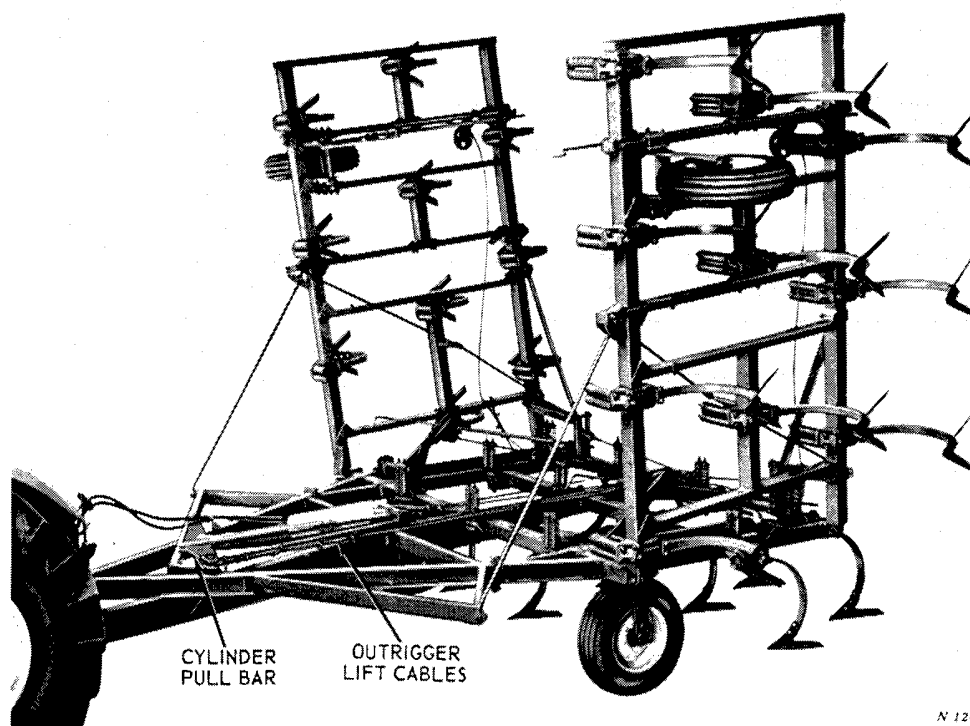
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N 12459

John Deere 262F Chisel Plow with Outrigger Lift



N 12460

*John Deere 262F Chisel Plow with Outrigger Lift
in Transport Position*



SPECIFICATIONS

MODELS

252F - 22-Foot Flexible Chisel Plow
254F - 24-Foot Flexible Chisel Plow
256F - 26-Foot Flexible Chisel Plow
258F - 28-Foot Flexible Chisel Plow
260F - 30-Foot Flexible Chisel Plow
262F - 32-Foot Flexible Chisel Plow

STANDARDS

Flat Cushion-Spring Standards
Flat Spring Standards

TOOTH PATTERNS

Diagonal or Split Tooth Patterns can be used with flat spring or flat cushion-spring standards.

WHEELS

15-inch disk wheels (7.60 x 15, 8-ply tires recommended).

Heavy-duty anti-friction wheel bearings used in each wheel.

108-inch wheel base places center section wheels outside wheel tracks of most large wheel tractors.

FRAME

4 x 4-inch square tube tool bars — welded construction.

The basic center section consists of a hitch frame and main frame. Hinged outriggers attach to the center section to provide a basic three-section machine for all models. Outrigger extensions and stub bars create the various size chisel plows.

HYDRAULIC CYLINDER

16-inch stroke hydraulic cylinder.

SPECIAL EQUIPMENT

Outrigger Lift
Swivel Hitch
Adjustable Hitch
Drawbar Clevis (for 2" drawbar pins)
Hydraulic Cylinder, 5- x 16-inch
Hydraulic Hose (for use with hydraulic cylinder)
Relief Valves (for use with hydraulic cylinder)
Drawbar
1000 Series Rod Weeder Attachment
1252—For 252F and 254F Chisel Plows
1256—For 256F Chisel Plow
1258—For 258F Chisel Plow
1260—For 260F and 262F Chisel Plows

TOOLS

Various types and sizes as illustrated on pages 11 and 12 and listed on page 15.

(Specifications and design subject to change without notice.)



OPERATION

This chisel plow is ideally suited for seedbed preparation, stubble-mulch and fallow tillage, field roughing to reduce erosion and increase moisture absorption, weed killing, heavy-duty field cultivating and pasture renovation.

Each model of the 250F Series is a three-section, hinged chisel plow with an 11-foot center section. All four chisel plow wheels are adjustable for equal sweep penetration in uneven ground. Offset hinges on outriggers help chisel plow move smoothly through rough ground and maintain uniform working depth.

PREPARING THE CHISEL PLOW

Before taking the 250F to the field, be sure the chisel plow is lubricated thoroughly (page 13), and wheel bearings are adjusted properly (page 8). Check tire inflation pressure (page 8), standard spacing (pages 29 to 36). Make sure all nuts, bolts and clamps are tight (pages 5 and 8).

PREPARING THE TRACTOR

Before hitching the chisel plow to the tractor, pin the tractor drawbar in a fixed, centered position. Although a swinging drawbar makes turning easier, a fixed drawbar provides greater stability.

See your tractor operator's manual for proper ballast and tire inflation when tractor is used to tow heavy implements.

ATTACHING HYDRAULIC CYLINDER

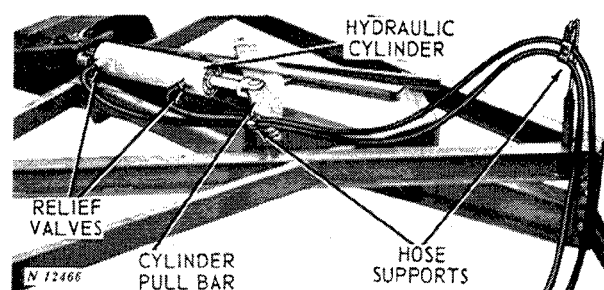
Connect hydraulic hoses to the cylinder and install cylinder on chisel plow before hitching tractor to chisel plow.

NOTE: Make sure relief valves are installed on the hoses as shown at the right and on page 23.

If cylinder is new, bleed the air from both the cylinder and hoses before attaching the cylinder to the chisel plow. To bleed the cylinder, connect

the hoses to the tractor hydraulic system, hold the cylinder with the piston rod down, and extend and retract the piston rod several times until the cylinder and hoses fill with oil.

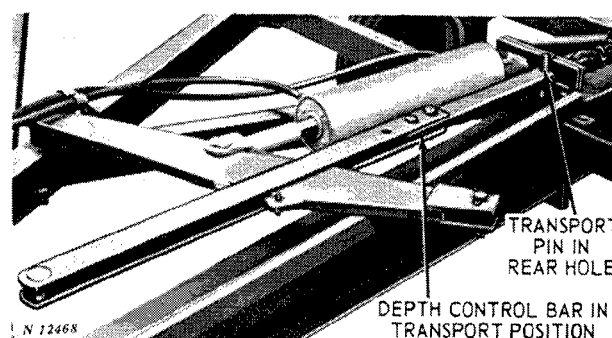
Add oil to the tractor hydraulic system to replace the oil pumped into the cylinder and hoses. See your tractor operator's manual for hydraulic system adjustments.



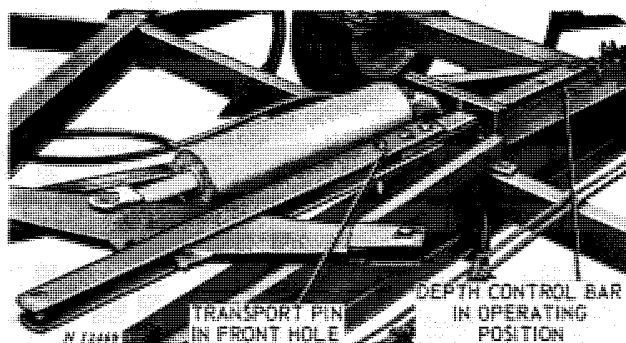
Attach the cylinder to the chisel plow, connecting the rod end to the cylinder pull bar. Clamp the hoses in the hose supports.

RAISING AND LOWERING CHISEL PLOW

The chisel plow is raised for transport and lowered for operation by the hydraulic cylinder.



To raise the chisel plow to transport position, fully extend the hydraulic cylinder until the rear hole in the depth control bar appears in front of the slotted plates. Insert the transport pin in rear hole and fasten with a spring locking pin.

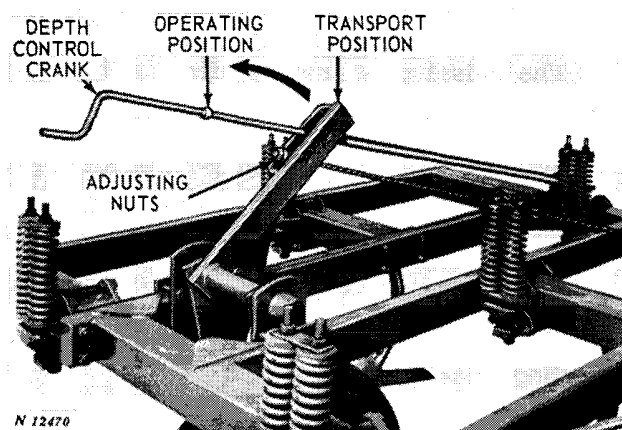


To lower the chisel plow to operating position, extend the cylinder and remove the transport pin from the rear hole in the depth control bar. Then, retract the cylinder to lower the chisel plow. Place the transport pin in the front hole and fasten with a spring locking pin.

HITCHING CHISEL PLOW TO TRACTOR

Place the transport pin in the front hole of the depth control bar, as shown above, and lower the chisel plow until the frame balances on the wheels. Attach the clevis to the tractor drawbar. If necessary adjust the chisel plow hitch in the field, to level the chisel plow from front to rear.

DEPTH CONTROL AND TRANSPORT ADJUSTMENTS

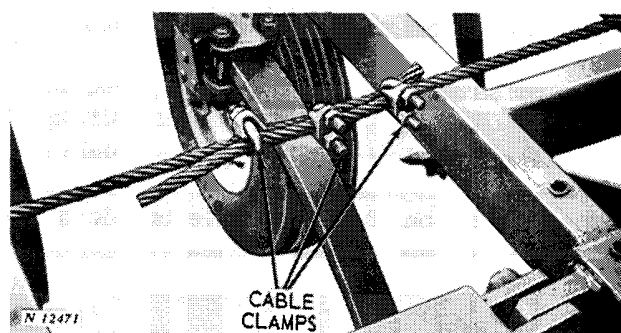


The depth control cranks on the wheel frame arms determine the working depth of tools and standards. The welded lug on each crank acts as a stop for the wheel frame arm when the chisel plow is lowered to the operating position.

For deeper tillage, turn cranks counterclockwise (lug moves away from wheel frame arm).

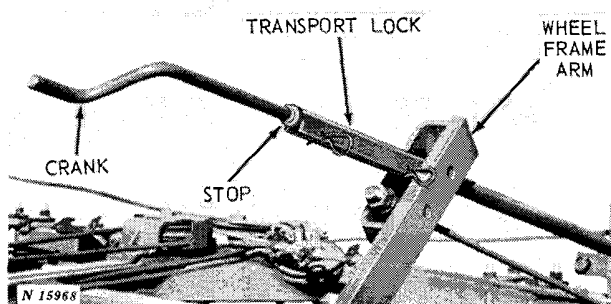
For shallower tillage, turn cranks clockwise (lug moves closer to wheel frame arm).

Because the cables have a tendency to stretch during the first few days of use, set the adjusting nuts close to the end of the threads on the cable ends. Take up the cable slack by tightening the nuts against the wheel frame arms.

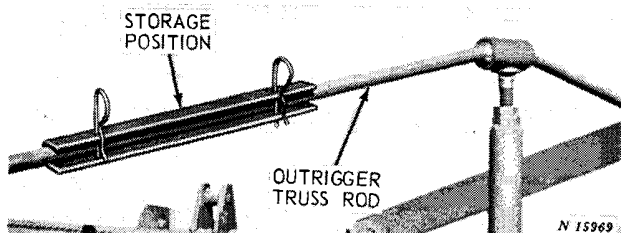


To lengthen or shorten cables, loosen the cable clamps. The U-bolt of the two outer clamps should rest on the cable end. Space clamps about three inches apart. Make sure clamps are tight.

TRANSPORT LOCKS

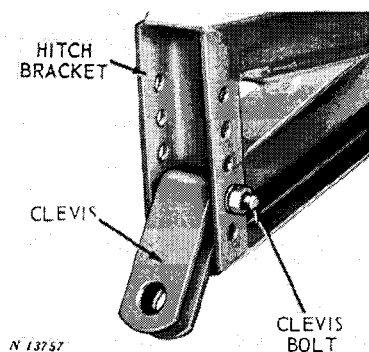


Before transporting chisel plow with outriggers raised, install transport locks on center section depth control cranks. Raise chisel plow to level transport position and slip locks over cranks between stop and wheel frame arm. Turn cranks if necessary to position locks. Fasten locks with spring locking pins. Store locks on outrigger truss rods when not in use.

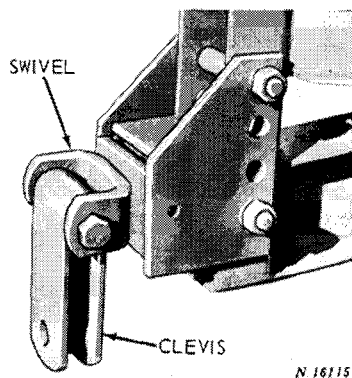


6 Operation

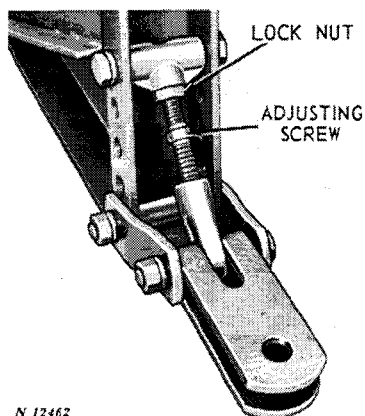
LEVELING CHISEL PLOW FROM FRONT TO REAR



Bolt clevis to hitch bracket so chisel plow frame is level from front to rear for uniform soil penetration. Tighten the clevis bolt to prevent clevis bushing from rotating.

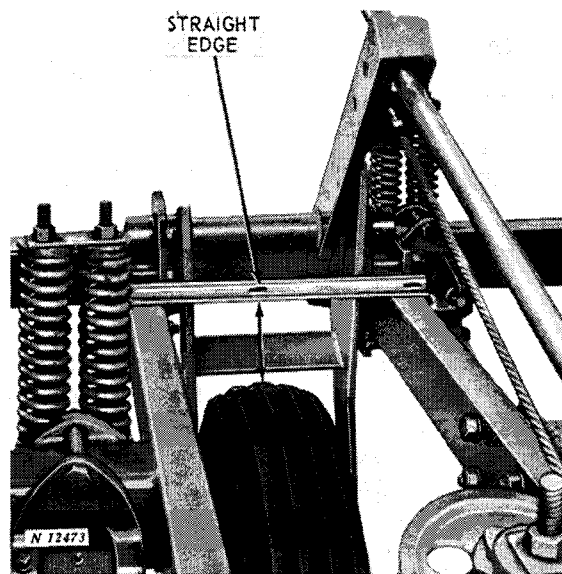


The swivel hitch is especially useful in extremely rolling terrain. Invert the swivel hitch, if necessary, to level the chisel plow. Adjust the slotted nut at rear of hitch so swivel can be turned but not moved from side to side.



On the adjustable hitch, turn the screw to raise or lower the clevis. Invert the adjustable hitch, if necessary, to level the chisel plow. Tighten adjusting screw lock nut and hitch bolts after positioning clevis.

LEVELING CHISEL PLOW FROM SIDE TO SIDE



Before going to the field, level the chisel plow in transport position. Measure the distance between the top of each wheel and a straight edge laid across the frame. The gap should be the same above each wheel. Make sure tires are the same size and equally inflated. Level the chisel plow by adjusting the length of the transport cables.

When operating in the field, level the chisel plow by adjusting the depth control cranks.

TURNING CHISEL PLOW IN THE FIELD

The chisel plow may be turned at the end of the field with the tool equipment in the ground or raised, as desired. When turning, be sure all four chisel plow wheels are turning forward, to prevent damage to the machine.

TRANSPORTING CHISEL PLOW

CAUTION: Make sure all transport and outrigger locks are securely fastened before transporting chisel plow.

Never exceed 10 mph when transporting the chisel plow.

Follow transporting safety suggestions offered on page 9.

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