

# **1610 SERIES 2-BAR INTEGRAL CHISEL PLOW**



## **OPERATORS MANUAL 1610 SERIES 2-BAR INTEGRAL CHISEL PLOW**

OMN159566 I2    English

**DES MOINES WORKS  
OMN159566 I2**

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ENGLISH





# Introduction

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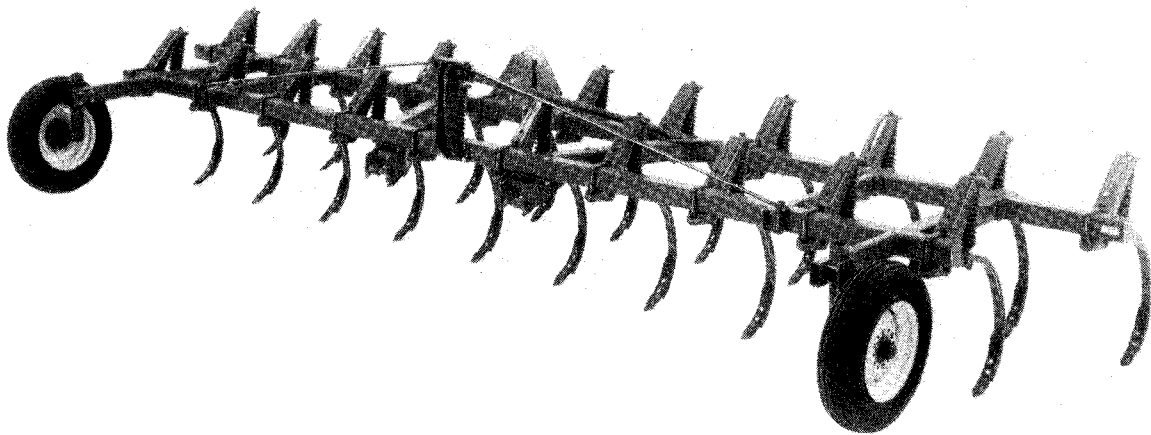
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of bodily injury and carefully read the message that follows.

This publication contains both the U.S. customary units of measurements and the SI Metric equivalents.

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

Your warranty appears on your copy of the purchase order which you should have received from your dealer.

Record your model and serial number on page 28.



*21-foot (6.4 m) 1610 Series 2-Bar Integral Chisel Plow*

NB1015G1

# 1610 SERIES 2-BAR INTEGRAL CHISEL PLOW

## PREDELIVERY CHECK LIST

- ☐ SMV Emblem and reflectors installed.
- ☐ Make sure the number of standards equals the total footage of the model.
- ☐ Make sure all customer-ordered attachments are installed.
- ☐ If equipped with stabilizer wheels, lubricate, tighten wheel bolts to specified torque, and check tire pressure for 40 psi (280 kPa).
- ☐ Any parts scratched in shipment have been touched up with paint.
- ☐ This chisel plow has been thoroughly checked and to the best of my knowledge, is ready for delivery to the customer.

Signed \_\_\_\_\_

Date \_\_\_\_\_

## DELIVERY CHECK LIST

At the time of delivery, important information should be conveyed directly to the customer. Check off each item below as it is fully explained to the customer.

- ☐ Give the operator's manual to the customer and explain all operating adjustments.
- ☐ Tell the customer of safety precautions he must observe when using this machine. See pages 2-3.
- ☐ When transporting the chisel plow at night or during the day, 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 dealer.
- ☐ To the best of my knowledge, this machine has been delivered ready for field use and the customer has been informed regarding proper care and operation.

Signed \_\_\_\_\_

Date \_\_\_\_\_

## OWNER REGISTER

Name \_\_\_\_\_

Address \_\_\_\_\_

Post Office \_\_\_\_\_

State \_\_\_\_\_

Model and Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

## AFTER-SALE CHECK LIST

The following is a suggested list of items to be checked at a dealer-customer mutually agreeable time during the first operating season.

- ☐ Check with the customer as to the performance of the chisel plow. Make certain the proper operating adjustments for his crop (or soil condition) are understood.
- ☐ If possible, run the chisel plow to see that it is functioning properly.
- ☐ Acquaint the customer with any special attachment which will help do a better job.
- ☐ Go over entire chisel plow for loose or missing bolts.
- ☐ Check for broken or damaged parts.
- ☐ Ask the customer if the recommended periodic lubrication has been performed.
- ☐ Review the operator's manual with the customer and stress the importance of proper lubrication and safety precautions.

Signed \_\_\_\_\_

Date \_\_\_\_\_

CUT ALONG DOTTED LINE



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# Safety



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## Operate Safely

DO NOT operate chisel plow without reading this operator's manual.

DO NOT allow anyone to ride on the chisel plow when it is in motion. Observe operation only from the tractor platform.

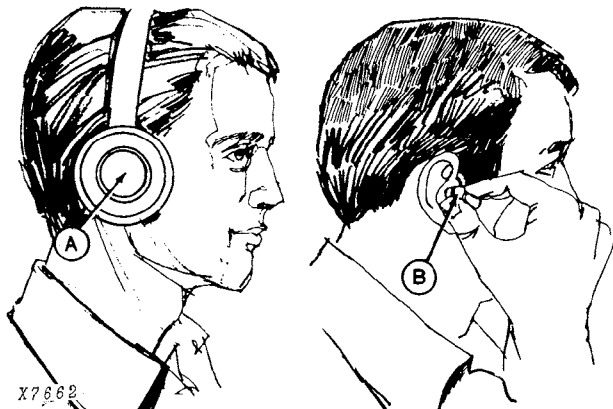
DO NOT operate close to a ditch or creek.

Raise chisel plow out of ground and slow down when turning.

Drive slowly over rough ground.

Apply both tractor brakes evenly when making emergency stops. Plan ahead.

Wear relatively tight and belted clothing to prevent being caught on some part of the machine.



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## Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

A - Earmuffs  
B - Earplugs

## Avoid Fires

DO NOT refuel with the tractor engine running.

DO NOT smoke or use a lantern when refueling.



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## Transport Safely

When transporting your machine on a road or highway at night or during the day, use necessary lights (A), SMV emblem (B), reflector tape (C) and reflectors (D) for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. These various safety lights and devices are available from your John Deere dealer. Always raise the chisel plow before transporting.

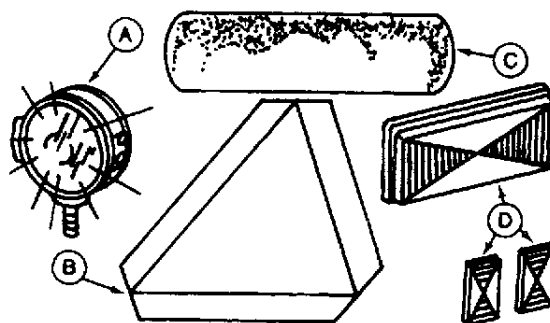
DO NOT fail to latch the tractor brakes together.

Shift the tractor into a lower gear when transporting down steep slopes or hills.

Keep the SMV emblem and reflectors clean and visible from the rear.

Stop slowly.

KNOW the width of your chisel plow.



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- A - Lights
- B - SMV Emblem
- C - Reflector Tape
- D - Reflectors

## Practice Safe Maintenance

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

DO NOT lubricate, adjust, or clean the chisel plow while it is in motion.

Always use a safety support when working on, under, or around the chisel plow.

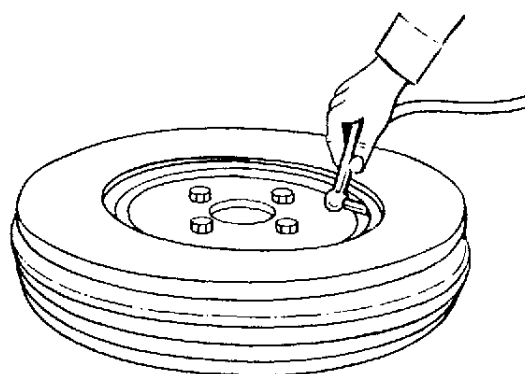
Shut off engine and remove key when working on chisel plow.

## Mounting Tires

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When seating tire beads on rims, never exceed 35 psi (240 kPa) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

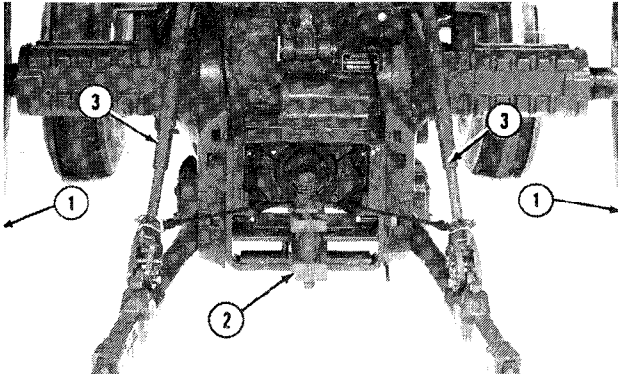
Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.



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# Preparing the Tractor



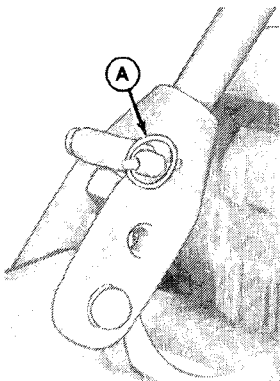
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**NOTE:** The tractor must be equipped with a category 2 three-point hitch, with or without quick coupler or a category 3 hitch with quick coupler.

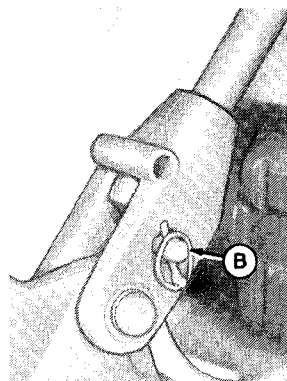
1. Set the tractor wheels for the desired row spacing. The wider the spacing, the more stability. See your tractor operator's manual.

**IMPORTANT:** If the tractor is equipped with dual wheels, use **ONLY** a quick coupler; otherwise interference may result with the tires.

2. Place drawbar in short centered position, or remove it.
3. Adjust lift links to minimum length.



With Stabilizer Wheels



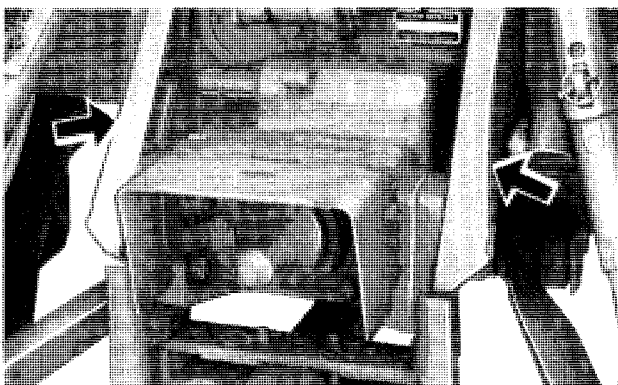
Without Stabilizer Wheels

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4. If chisel plow has stabilizer wheels, place lateral float pins in upper holes (A). This allows either draft link to raise slightly as chisel plow follows ground surface.

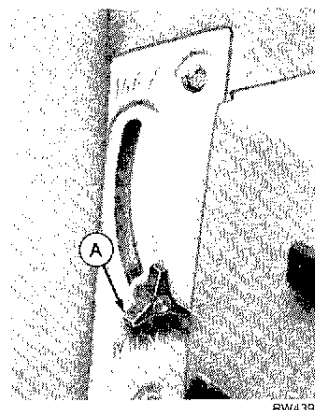
To hold chisel plow rigidly, place lateral float pins in lower holes (B).

5. Position sway blocks in upper wide setting.



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6. Move rockshaft selector lever to "MIN" (A) or "ZERO" or "D". Refer to tractor operator's manual for additional load/depth adjustment.



7. Determine ballast as follows:

Step 1 - Find your chisel plow size in Implement Code Table and enter its Implement Code on Line 1.

Step 2 - Enter an Implement Code for each attachment or option used on Line 2.

Step 3 - Add Implement Code of chisel plow and Implement Code(s) for each attachment used to obtain the Total Implement Code.

Step 4 - Refer to tractor operator's manual to determine required tractor front ballast.

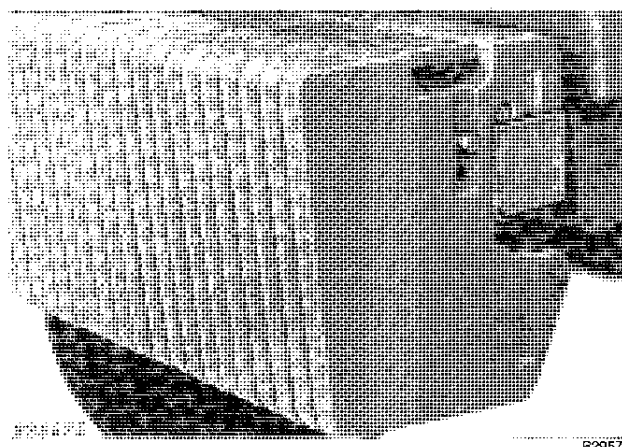
**IMPORTANT:** 1) If the total implement code exceeds the maximum implement code listed for a particular tractor model, the implement-attachment combination is not recommended for that tractor.

2) The total load on any tractor wheel due to the weight of the implement-attachment combination and tractor equipment, should not exceed the carrying capacity of the tractor tires.

Refer to tractor operator's manual for weight limitations applicable to your tractor and tires.

**NOTE:** Ballast recommendations provide for adequate transport stability at recommended speeds. Additional front ballast may be required for satisfactory field operation due to sudden or extreme forces on the tractor hitch, such as can occur when removing the chisel plow from the ground and turning at row ends, or during field transport over very rough terrain.

8. Refer to tractor operator's manual regarding recommended adjustments for tire inflation pressures, use of hydraulic system, PTO and other tractor implement usage.



IMPLEMENT CODE TABLE

Chisel Plow Size	Spring Trip	Rigid
11 ft. (3.4 m)	75	64
13 ft. (3.9 m)	85	71
15 ft. (4.6 m)	97	81
17 ft. (5.2 m)	118	100
19 ft. (5.8 m)	124	105
21 ft. (6.4 m)	138	116

Attachment or Options

(2) Stabilizer wheels with tires mounted to side bar (only on 11 ft. and 13 ft. [3.4 and 3.9 m] models).....8.7 per ft.  
 Harrow.....3.9 per ft.

Line 1 \_\_\_\_\_  
 Line 2 \_\_\_\_\_  
 Total Implement Code \_\_\_\_\_



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