

# F135H AND F145H SERIES SEMI-INTEGRAL MOLDBOARD PLOWS



JOHN DEERE

## OPERATORS MANUAL F135H AND F145H SERIES SEMI-INTEGRAL MOLDBOARD PLOWS

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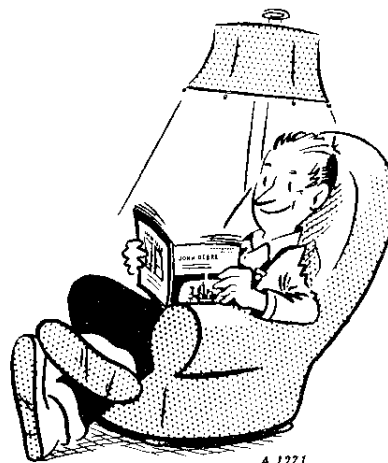
## Your new plow

Behind your new plow is an organization that has specialized in designing and building plows for over 125 years. This plow was built in the world's largest plow factory by experienced men, many who have worked in this large plant for from 10 to 45 years, thus assuring the utmost in good design, high-grade workmanship and thorough inspection, so essential to the production of good plows.

High quality materials, precision production methods, and accurately controlled heat-treating assure maximum strength and long life for every part.

This manual has been carefully prepared and illustrated, so that you may make the necessary adjustments for adapting your plow to work properly in practically all types of soil and field conditions. These adjustments such as proper hitching and adjusting for width and depth of cut, are fully covered in this manual.

Study this manual carefully. Keep it handy, in a safe place, for future reference.



Occasionally your plow may need new parts, or require service 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.

If you will furnish your dealer with the information which should be recorded at the bottom of this page, when the plow is delivered, he can give you prompt and efficient service.

**JOHN DEERE F135H AND F145H SERIES  
SEMI-INTEGRAL MOLDBOARD PLOWS**

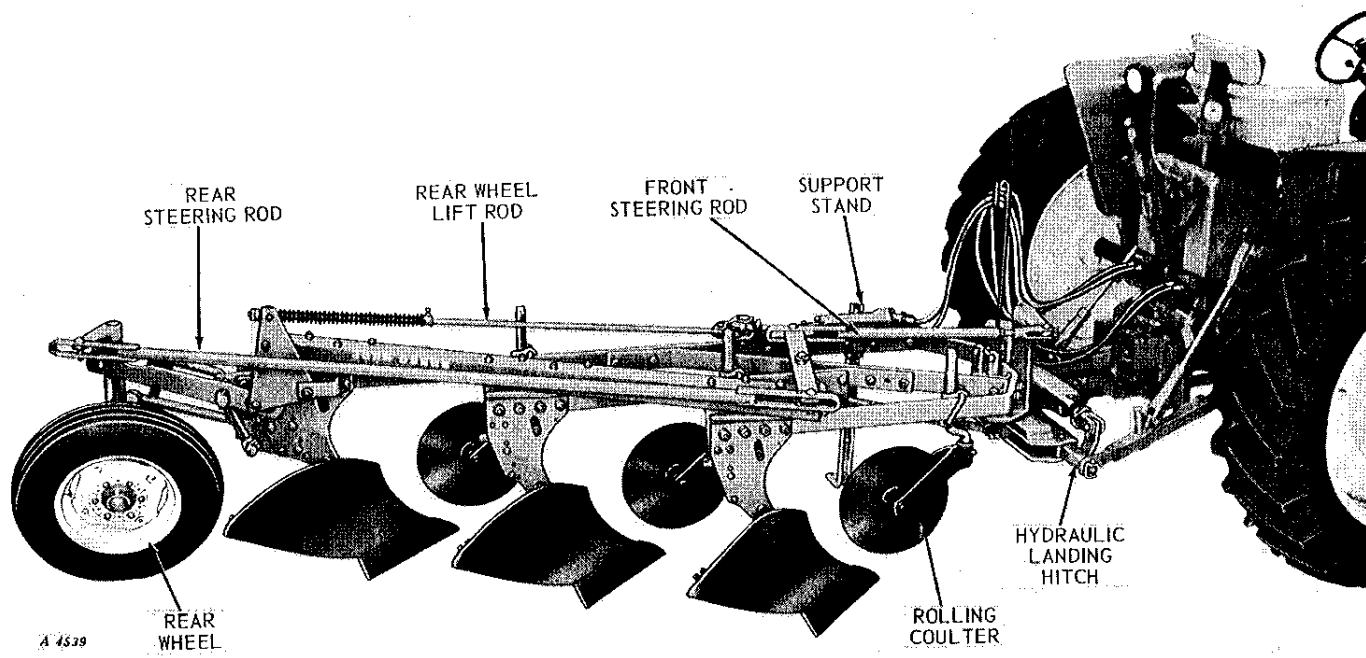
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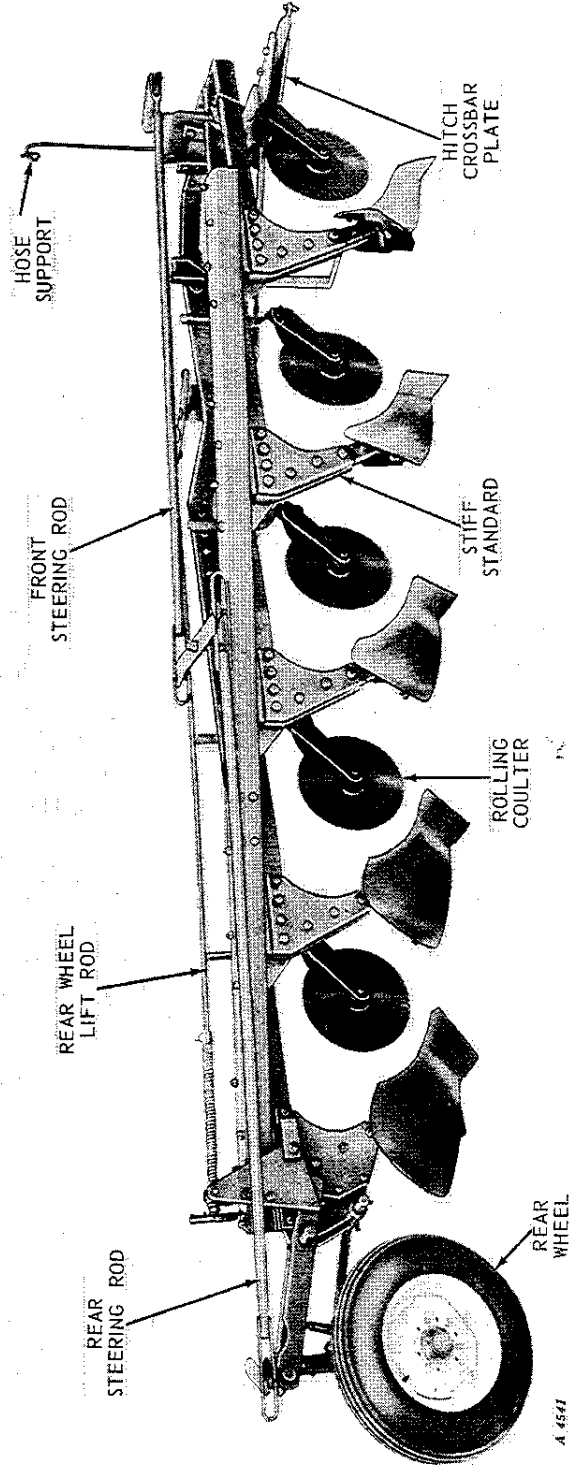
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# Contents

	Page
IDENTIFICATION VIEWS. . . . .	2-3
SPECIFICATIONS. . . . .	4-6
OPERATION. . . . .	7-30
Importance of Proper Adjustment. . . . .	7
Preparing the Plow. . . . .	7
Preparing and Adjusting the Tractor. . . . .	8-10
Attaching Plow to Tractor. . . . .	11-13
Detaching Plow from Tractor. . . . .	14
Hitch Adjustments. . . . .	14-16
Depth Stop Adjustment . . . . .	16-17
Lateral Leveling. . . . .	17
Rear Wheel. . . . .	17
Safety-Trip Standards. . . . .	18-19
Rolling Coulters. . . . .	20-23
Turning Plow. . . . .	23
Transporting. . . . .	23
Safety Rules. . . . .	23
Procedure for Field Adjusting Plow. . . . .	24-26
Special Equipment. . . . .	27-30
Jointers. . . . .	27
Moldboard Extension. . . . .	28
Root Cutter. . . . .	28
Moldboard Pad. . . . .	28
Share-Frog Brace. . . . .	28
Weed Hook . . . . .	29
Trash Board . . . . .	29
Gauge Wheel . . . . .	30
MAINTENANCE. . . . .	31-32
LUBRICATION. . . . .	33
REDUCING PLOW SIZE . . . . .	34-37
PLOWING DIFFICULTIES AND REMEDIES . . . . .	38-41
ASSEMBLY . . . . .	42-56
SHIPPING BUNDLES . . . . .	42-44



*John Deere F145H 3-Bottom Semi-Integral Moldboard Plow with Hydraulic Landing Hitch (Optional Equipment)*



John Deere F135H 5-Bottom Semi-Integral Moldboard Plow with Rippled-Edge Rolling Coulters (Optional Equipment)

## Specifications

**TYPES . . . . .** The F135H Series Semi-Integral Moldboard Plows with Stiff Standards are furnished in the following sizes.

**3-Bottom** — 14- or 16-inch frames for John Deere 1020, 2010, 2020, 2510, 3010, and 3020 Tractors. The 3-bottom plow is not reducible.

**4-Bottom** — 14- or 16-inch frames for John Deere 2010, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors. The 4-bottom plow is reducible to 3 bottoms.

**5-Bottom** — 14- or 16-inch frames for John Deere 3010, 3020, 4010, and 4020 Tractors. The 5-bottom plow is reducible to 4 bottoms.

**6-Bottom** — 14- or 16-inch frames for John Deere 4010 and 4020 Tractors. The 6-bottom plow is reducible to 5 bottoms.

The F145H Series Semi-Integral Moldboard Plows with Safety-Trip Standards are furnished in the following sizes.

**3-Bottom** — 14- or 16-inch frames for John Deere 1020, 2010, 2020, 2510, 3010 and 3020 Tractors. The 3-bottom plow is not reducible.

**4-Bottom** — 14- or 16-inch frames for John Deere 2010, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors. The 4-bottom plow is reducible to 3 bottoms.

**5-Bottom** — 14- or 16-inch frames for John Deere 3010, 3020, 4010, and 4020 Tractors. The 5-bottom plow is reducible to 4 bottoms.

**6-Bottom** — 14- or 16-inch frames for John Deere 4010 and 4020 Tractors. The 6-bottom plow is reducible to 5 bottoms.

*NOTES: The 1020 and 2020 Tractors must be equipped with the category 2 hitch when used with these plows.*

*When using a 1020 or 2020 Tractor equipped with steel rear wheels on flanged axles, the tractor must be equipped with flanged-axle extensions to attain the necessary rear wheel settings. See your tractor operator's manual.*

*When using a 2020 Tractor equipped with cast-disk rear wheels on flanged axles and 16.9-30 rear tires, or steel rear wheels on flanged axles; 32-inch wheel spacing cannot be used.*

*2010 Row-Crop Utility Tractors equipped with 12.4-28 rear tires are not recommended for use with these plows.*

DEPTH RANGE . . .	Up to 12 inches depending on soil conditions and type and size of bottoms.
CLEARANCE . . . .	Fore-and-aft, 27-7/8 inches; under truss box 28-1/2 inches; under frame bars, 24-1/2 inches.
LEVELING . . . . .	Lateral (side-to-side) leveling controlled by leveling cranks on the tractor 3-point hitch. Fore-and-aft leveling controlled by an adjustable depth stop on rear wheel lift balls.
BOTTOMS . . . . .	Various types available as ordered, except breaker and deep-tillage bottoms.
LANDSIDES . . . . .	Bottoms with short landsides (No. 4 for conventional-type bottom and No. 9 for all high-speed bottoms except rear bottom which requires a No. 10 landside).
REAR WHEEL . . . .	Wheel for 6.70-15 tire, regular. Wheel with 6.70-15 tire, optional. 14-inch wheel less tire, optional.
GAUGE WHEEL . . .	Special Equipment. Wheel for 5.90-15 tire with or without tire, or 14-inch wheel less tire.
COULTERS . . . . .	17-inch plain, regular. 17-inch rippled-edge, optional. 17-inch cushion coulters, plain or rippled edge, for round shank; optional. 18-inch plain, optional. 20-inch cushion coulters, plain or rippled edge, anti-friction bearing for round shank; optional. 20-inch plain or rippled-edge, optional. 22-inch plain, flat shank, optional. Round shank, regular. Flat shank, optional. Chilled-cone bearing, regular. Anti-friction bearing, optional.
JOINTERS . . . . .	Independent, cast or steel, available as special equipment.

## 6 Specifications

### HYDRAULIC

LANDING HITCH. Optional equipment when used with 1020, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors.

ROOT CUTTERS . . Available as special equipment.

WEED HOOKS. . . . Available as special equipment.

MOLDBOARD PADS Available as special equipment for HS400 Series bottoms only.

TRASH BOARDS . . Available as special equipment for high-speed bottoms, high-speed slat bottoms, SDT546FC semi-deep tillage bottoms, and NU bottoms.

### MOLDBOARD

EXTENSIONS. . . Two types: For conventional bottoms or HS400 series high-speed bottoms.

### SHARE-FROG

BRACE. . . . . To attach 16-inch high-speed shares to 14-inch high-speed bottoms.

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

*NOTE: When the term "right" or "left" is used, it means from a position behind the plow and facing the front.*



## Operation

### Importance of proper adjustment

Your new plow is fully adjustable and, when properly adjusted to operate in the type of soil and field conditions on your farm, it will do a good job of plowing at a minimum of expense. A well-adjusted plow pulls lighter; its furrow slices are uniform in width and depth; it covers trash; it leaves the soil in proper condition to be worked down into the best-type seedbed.


Improper adjustment results in rapid wear and possible breakage of parts, and inefficient operation.

### Preparing the plow

#### Plow bottoms

The polished surfaces of the plow bottoms have been painted with protective black paint.

In most cases it is not necessary to remove the black paint because it will wear off quickly upon contact with the soil. In those soils where the black paint will not wear off, remove with gasoline, kerosene, or diesel fuel.

 **Be careful when using any of these fuels so they do not ignite. Plow should be in a well-ventilated area and away from any sparks or flames.**

If the plow is not to be used immediately, protect the polished surfaces by applying a coat of cup or gun grease. If plow is to be put in storage for a considerable length of time, see pages 31 and 32.

#### Bolts and set screws

Before starting to work with a new plow or one which has been stored, check to see that all bolts and set screws are tight and all cotter pins spread to keep them from falling out. Check the bolts that hold the plow bottoms to see that they are drawn up very tight.

A good practice is to check for loose bolts, screws, or parts when lubricating the plow. Loose bolts are easily lost or cause excessive wear on parts, resulting in possible serious damage to the plow.

#### Tire inflation

Wheel	Recommended New Implement or New or Used Auto Tires	Inflation Pressure
Rear	6.70-15, 4-ply	30 psi
Gauge	5.90-15, 4-ply	30 psi

#### Lubrication

Be sure plow has been properly lubricated. See Lubrication Chart on page 33.

## Preparing and adjusting the tractor

For complete tractor operating instructions, refer to your tractor operator's manual.

### Tire inflation

Inflate the tractor tires as recommended in the tractor operator's manual. For plowing, best results are generally obtained by taking one weight from the furrow wheel and adding it to the land wheel. Tilting of the tractor places more weight than normal on the furrow wheel. Addition of weight to the land wheel provides more uniform weight distribution over the rear wheels.

### Tractor drawbar

Set the tractor drawbar in the short high position.

### Rear wheel setting

Adjust rear wheels of the tractor equidistant from the center line of the tractor to inside edge of tire. Set according to the chart on page 15.

Note the rear wheel and tire limitations shown below chart on page 15.

### Front wheel setting

On wide-front-axle tractors, set front wheels to conform to rear wheel setting.

### Front end weighting

Tractor front-end weighting is necessary for maximum field performance:

*1020 Tractors.* 1020 RU Tractors should have 400 pounds of front-end weighting at all times. 1020 HU Tractors should have 300 pounds of front-end weighting at all times.

*2010 Tractors.* 2010 Row-Crop Tractors should have 500 pounds of front-end weighting (2 side and 4 front) at all times. 2010 Row-Crop Utility Tractors should have 600 pounds of front-end weighting (2 side and 5 front) at all times.

*2020 Tractors.* When using with 3-bottom plows, front-end weights are not required in average conditions. When using with 4-bottom plows, the 2020 RU Tractors should have 600 pounds of front-end weighting at all times. 2020 HU Tractors should have 500 pounds of front-end weighting at all times.

*2510 Tractors.* When using with 3-bottom plows, front-end weights are not required in average conditions. When using with 4-bottom plows, the 2510 Row-Crop Tractors with double front wheels should have 600 pounds of front-end weighting at all times. The 2510 Row-Crop Tractors with adjustable-tread front axle should have 400 pounds of front-end weighting at all times.

*3010, 3020, 4010, and 4020 Tractors.* The amount of front weight required will have to be determined by plow size, field operating conditions, and the gear in which the tractor is operated.

*All Tractors:*



When operating the tractor in third or lower gears, front-end weights up to the maximum permissible, regardless of size of plow, are necessary to avoid possible front-end tip-up.

For maximum ballast, refer to your tractor operator's manual.

### Rear wheel weighting

Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so would hinder maximum performance of the tractor.

The ideal amount of added weight can be determined by observing the tracks of the rear wheels. When the tractor is pulling its rated load, the soil between the tire lugs should be broken or shifted. If too much weight has been added, the tread marks will be clear and distinct. If too little weight has been added, the tread marks will be entirely obliterated.

#### Liquid weights

Water and calcium chloride solution is an economical means of adding weight to rear wheels. Calcium chloride is recommended rather than water as it will not freeze. See your tractor operator's manual or your John Deere dealer.

#### Cast-iron weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. This type of weight can be secured from your John Deere dealer.

For maximum ballast, refer to your tractor operator's manual.

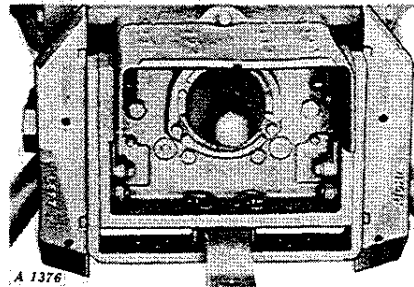
### 3-point hitch and hydraulic system

The 3-point hitch provides a fast easy means of attaching the plow to the tractor. Once the plow is attached, the depth or the load is maintained by the tractor hydraulic system according to the setting of the selector lever. See your tractor operator's manual for complete explanation of the hydraulic system.

Instructions for preparing the hydraulic system and 3-point hitch on 1020, 2010, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors are similar except that on the 2010 the center link of the 3-point hitch is used both with and without the Quik-Coupler and the hydraulic system must be adjusted for parallel lift arm operation. See your tractor operator's manual for instructions on setting 2010 Tractor for parallel lift arm operation.

*NOTE: The F135H and F145H 3- and 4-bottom plows can be attached to 2010 Row-Crop and 2010 Row-Crop Utility Tractors Serial No. 29,001 and above. If plow is to be attached to 2010 Tractors below Serial No. 29,001, the AT11684T Rear Center Link must be replaced with AT16625T Rear Center Link. This will provide proper center link adjustment.*

### Sway blocks



The sway blocks must be set in the down position in the category 2 setting. This setting permits the plow to hold the proper width of cut and eliminates sway due to the action of the pivot assembly when working in the field. Since the plow rear wheel is steerable, the tractor draft links must be maintained rigidly behind the tractor for quick and positive maneuverability, both in the field and in transport.

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