

John Deere

MODEL:

F345H & F355H

Moldboard Plows

**OPERATOR'S
MANUAL**



JENSALES.COM

or Call **800-443-0625**



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JD-O-OMA15948

OPERATOR'S MANUAL

OM-A15948

JOHN DEERE

F345H AND F355H SERIES

**POWER-RESET SEMI-INTEGRAL
MOLDBOARD PLOWS**



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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.

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

JOHN DEERE F345H AND F355H SERIES POWER-RESET
SEMI-INTEGRAL MOLDBOARD PLOWS

No. of Bottoms
Date Purchased 19. . . .
(To be filled in by Purchaser)

Price \$1.25

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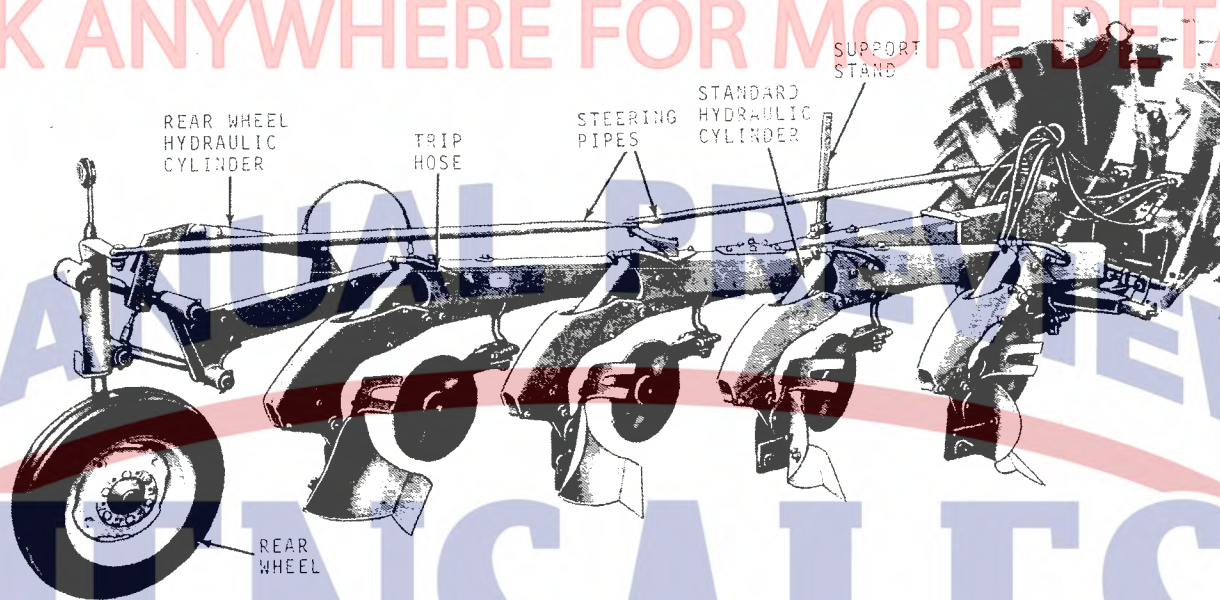
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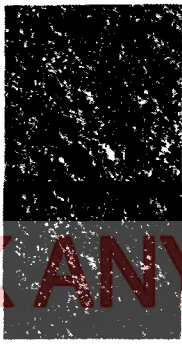


*John Deere F345H 4-Bottom Power-Reset Semi-Integral Moldboard Plow
(Hydraulic Landing Hitch, Cushion Rippled-Edge Anti-Friction Bearing Rolling Coulters, and Trashboards Optional Equipment)*



*John Deere F345H 5-Bottom Power-Reset Semi-Integral Moldboard Plow
(Rippled-Edge Rolling Coulters Optional Equipment)*

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SPECIFICATIONS

Types.	F345H and F355H Series Power-Reset Semi-Integral Plows; F345H Series has a hitch for operating with tractor wheel in the furrow. F355H Series has a hitch for operating with all tractor wheels on the land. F345H 4-Bottom —16-inch frame for John Deere 2510, 3010, 3020, 4010, and 4020 Tractors. F345H and F355H 5-Bottom —16-inch frame for John Deere 3010, 3020, 4010, 4020, 5010, and 5020 Tractors. NOTE: The 5-Bottom Plow used with a 3010 or 3020 Tractor is recommended for light soil conditions only. F345H and F355H 6-Bottom —16-inch frame for John Deere 4010, 4020, 5010, and 5020 Tractors. F345H and F355H 7-Bottom —16-inch frame for John Deere 4020, 5010, and 5020 Tractors. F355H 8-Bottom —16-inch frame for John Deere 5010 and 5020 Tractors.
Depth Range	Up to 12 inches depending on soil conditions and type and size of bottoms.
Clearance.	Fore-and-aft, 28 inches.
Hitch Crossbar	Category 2 on 4-bottom plow. Category 2 or 3 on 5-, 6-, and 7-bottom plows. Category 3 on 8-bottom plow. Hydraulic Landing Hitch available as optional equipment for F345H 4-, 5-, and 6-bottom plows equipped with a category 2 hitch crossbar.
Standards	Power-reset, double-pivot action.
Bottoms	NU Series Bottoms, high-speed bottoms, high-speed slat bottoms, SDT446 slat bottoms, and SDT546FC semi-deep tillage bottoms.
Landsides.	No. 9 for all bottoms except rear bottom which requires a No. 11 adjustable rear landside.
Rear Furrow Wheel . .	F345H and F355H Series, steerable. Wheel for 6.70-15 or 7.60-15 tire, regular. Wheel with 6.70-15 tire, optional for 4- and 5-bottom plows. Wheel with 7.60-15 tire, optional for 6-, 7-, and 8-bottom plows. 14-inch wheel, less tire, optional.
Front Furrow Wheel. .	F355H Series; steerable. Wheel for 6.70-15 or 7.60-15 tire, regular. Wheel with 6.70-15 tire, optional for 4-, 5-, and 6-bottom plows. Wheel with 7.60-15 tire, optional for 7- and 8-bottom plows. 14-inch wheel, less tire, optional.
Hydraulic System. . . .	John Deere System for John Deere Tractors with closed-center constant-pressure system, regular. Accumulator System for other tractors that do not have adequate hydraulic capacity and closed-center hydraulic systems, optional.
Coulters.	Cushioned by two rows of cupped washers. 17-inch plain with chilled-cone bearing, regular. 17-inch rippled edge with chilled-cone bearing, optional. 17-inch or 20-inch, plain or rippled edge, with anti-friction bearing, optional.
Gauge Wheel	Special Equipment. Wheel for 5.90-15 tire, with or without tire, or 14-inch wheel, less tire.
Moldboard Pads.	Available as special equipment for HS400 Series bottoms only.
Trashboards.	Available as special equipment for NU Series Bottoms, high-speed bottoms, high-speed slat bottoms, SDT446 slat bottoms, and SDT546FC semi-deep tillage bottoms.
Moldboard Extensions. .	For NU Series and HS400 Series high-speed bottoms.

(Specifications and design subject to change without notice.)

Lever Stop (John Deere Hydraulic System)



Lever Stop on John Deere Tractors Equipped with Dual Remote Cylinder Breakaway Couplers for use with F345H Plows



Lever Stop on John Deere Tractors Equipped with Single Remote Cylinder Breakaway Coupler for use with F345H and F355H Plows, and John Deere Tractors Equipped with Dual Breakaway Couplers for use with F355H Plows

To provide constant hydraulic pressure when using a plow with a John Deere Hydraulic System, it is necessary to keep the tractor remote cylinder operating lever in the operating position.

The lever stop is used on the outer lever when the F345H Plow is used with tractors equipped with dual remote hydraulic cylinder breakaway couplers.

The lever stop is used on the inner lever when the F345H or F355H Plows are used with tractors equipped with a single remote hydraulic cylinder breakaway coupler and when the F355H Plow is

used with a tractor equipped with dual remote hydraulic cylinder breakaway couplers.

NOTE: The lever stop must be removed when operating other implements which require regular detent action. To remove lever stop, remove tractor cowl and remove two bolts securing lever stop. Replace cowl.

Remote Cylinder Operating Lever for Rear Wheel Control (John Deere Hydraulic System and Accumulator System)

The remote cylinder operating lever must be placed in the float position to prevent a build-up of air pressure in the rear wheel hydraulic cylinder. An air pressure build-up will cause the rear of the plow to run shallow.

To place remote cylinder operating lever in float position, see your tractor operator's manual.

John Deere Hydraulic System

On John Deere Tractors equipped with dual remote cylinder breakaway couplers for use with an F345H Plow, the inner remote cylinder operating lever must be used in the float position. See upper left illustration.

On John Deere Tractors equipped with dual remote cylinder breakaway couplers for use with an F355H Plow, the outer remote cylinder operating lever must be used in the float position. See lower left illustration.

Float position is not used when rear wheel oil line is attached to the same breakaway coupler as the pressure line (tractor equipped with single breakaway coupler or tractor equipped with dual breakaway couplers when plow is equipped with a hydraulic landing hitch).

Accumulator System

On F345H Plows for use with a tractor equipped with dual remote cylinder breakaway couplers, place inner remote cylinder operating lever in float position.

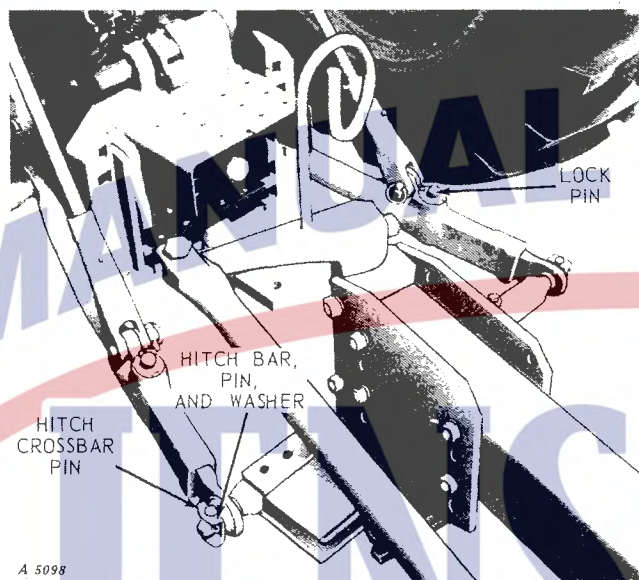
On F345H and F355H Plows for use with a tractor equipped with a single remote cylinder breakaway coupler, place lever in float position.

On F355H Plows for use with a tractor equipped with dual remote cylinder breakaway couplers, place outer remote cylinder operating lever in float position.

ATTACHING PLOW TO TRACTOR

3-POINT HITCH

2510, 3010, 3020, 4010, and 4020 Tractors



For ease in attaching, remove one sway block from tractor before attaching plow to tractor.

Place rockshaft selector lever in the "D" position.

Slip draft link ball sockets over hitch crossbar pins and lock in place with hitch bar pins and washers provided.

Close the telescoping draft links either by raising and lowering the plow with the tractor rockshaft control lever or by backing up the tractor.

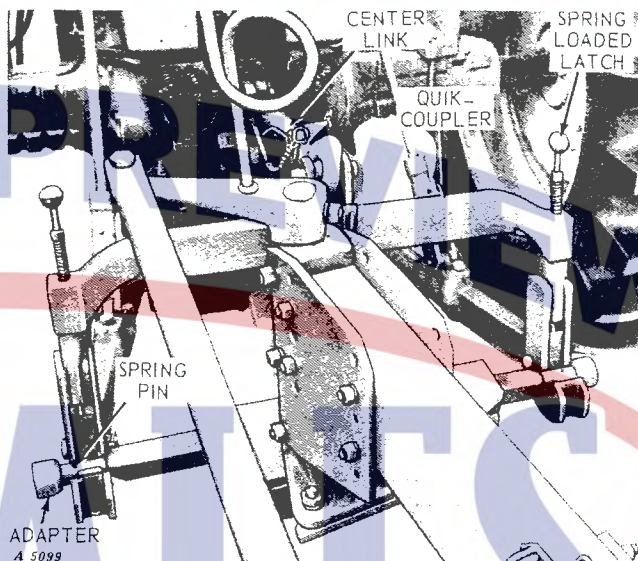
Be sure to replace tractor sway block.

NOTE: The center link is not used.

Raise support stand to highest setting.

QUIK-COUPLER

2510, 3010, 3020, 4010, and 4020 Tractors



NOTE: Quik-Coupler Latch Lock Pins are necessary when using these tractors equipped with a Quik-Coupler. If your Quik-Coupler is not equipped with Latch Lock Pins (Kit AR31984R), see your John Deere dealer.

When attaching Quik-Coupler to tractor 3-point hitch make sure center link is set according to the dimensions given in chart on page 8.

Slide adapters over the plow hitch pins.

Drive spring pins through adapters and hitch pins until they are flush with the surface of the adapters.

Place the rockshaft selector lever in the "D" position.

Make sure spring-loaded latches are in the upper position (up and towards the front).

Raise the coupler with the tractor rockshaft control lever. As the coupler receives the weight of the plow, the implement hitch pin adapters will be locked automatically in place by the spring-loaded latches.

NOTE: When the spring-loaded latches are properly locked, the indicator rod will protrude through the slot in the coupler frame adjacent to the latch rods.

Raise support stand to highest setting.

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MAINTENANCE

JOHN DEERE

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5010 and 5020 Tractors



Place selector lever in the "D" position.

Push both Quik-Coupler latches downward and to the rear to lock them in the released position.

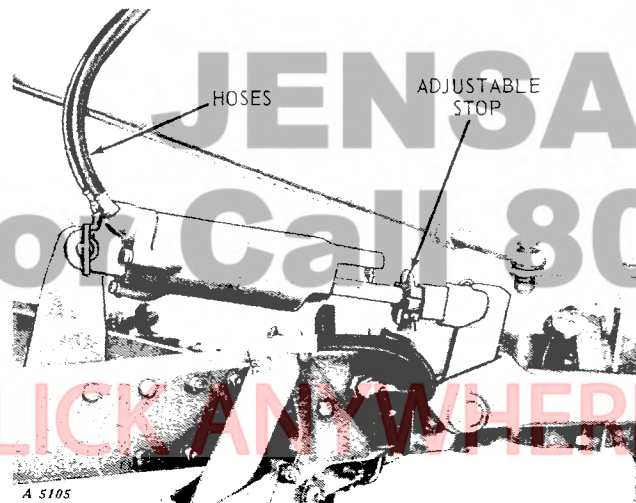
Lower the hitch assembly until the attaching hooks are lower than the plow hitch pins.

Back up the tractor until the plow hitch pins enter the lower hooks. Raise the Quik-Coupler to raise the plow. Pull forward and upward on the latches to lock the plow to the coupler. See illustration above.

NOTE: When the latches are properly locked, the indicator rods will protrude through the slots in the coupler frame adjacent to the latch rods.

Raise support stand to highest setting.

INSTALLING REMOTE HYDRAULIC CYLINDER ON FRONT FURROW AXLE (F355H Plow)



The tractor remote hydraulic cylinder controls the front furrow wheel.

The front furrow wheel uses a 3 x 8-inch remote hydraulic cylinder when used with a John Deere 2510, 3010, 3020, 4010, or 4020 Tractor. A 3-1/2 x 8-inch cylinder is used with a John Deere 5010 or 5020 Tractor.

To provide ample hose length when making turns, the length of the remote cylinder hoses may have to be increased when using a tractor with dual remote breakaway couplers.

When using any of the above John Deere Tractors equipped with dual remote breakaway couplers, the remote hydraulic cylinder hose must be at least 140 inches long.

When using other tractors with dual remote breakaway couplers, the hose length may be determined as follows:

The plow requires a 103-inch minimum spherical radius from the tractor drawbar to the hose end of the cylinder.

The spherical radius is the distance from the tractor drawbar hitch point to the hose end of the cylinder.

To determine the additional hose required, attach the remote cylinder hoses to the tractor breakaway couplers. Lay the cylinder on the ground directly behind the drawbar with hoses stretched out full length. Pull hoses down to the tractor drawbar. Measure the distance from the end of the drawbar to the hose end of the cylinder. The difference between this measurement and 103 inches is the amount of the additional hose required.

If the cylinder has not been used before, it may be necessary to bleed the cylinder as explained in the tractor operator's manual.

With all trapped air removed from cylinder, install the cylinder on the plow as shown at left.

Set adjustable stop so the full stroke of the cylinder may be used.

The installation of the cylinder hoses in the tractor breakaway coupler depends on whether the plow is equipped with a John Deere Hydraulic System or the Accumulator System and also whether the tractor is equipped with a single breakaway coupler or dual breakaway couplers.

See pages 13 through 15 for illustrations of hose installations.

Place hoses through hose support.