

AH and GH Tractors (Serial No. AH-665000 and Up; GH-G46800 and Up)



JOHN DEERE

OPERATORS MANUAL

AH and GH Tractors (Serial No. AH-665000
and Up; GH-G46800 and Up)

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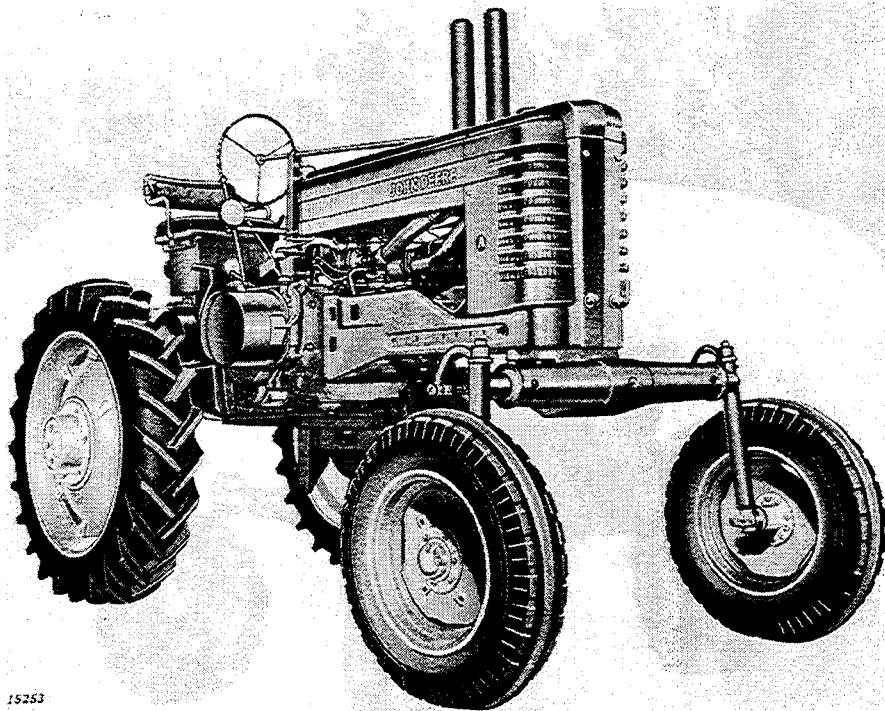


INTRODUCTION

In many respects your new John Deere Model "AH" or "GH" (Hi-Crop) Tractor is just like a John Deere Model "A" or "G" Tractor.

Refer to your Model "A" or "G" Operator's Manual for description and location of controls and method of starting, stopping, and operating your "AH" or "GH" Tractor. Use the "A" or "G" Manual for instructions on keeping the fuel, ignition, and cooling systems, tappets, Powr-Trol, and starting and lighting equipment of your Hi-Crop Tractor in first-class working order. Refer to it often for constructive and helpful suggestions on getting the most out of your Hi-Crop Tractor.

The instructions in this manual supplement those in the Operator's Manual for an "A" or "G" Tractor. They cover only those parts of your Hi-Crop Tractor which are different from similar parts of "A" or "G" Tractors.



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John Deere Model "AH" (Hi-Crop) Tractor

SPECIFICATIONS

Most of the specifications in the Model "A" or "G" Tractor Operator's Manual apply equally to your "AH" or "GH" Tractor. The following, however, are different.

TRACTOR SPEEDS

"AH" Tractor.

Gear	M.P.H. with 11-38 Regular Tires	M.P.H. with 12-38 Cane and Rice Tires
First	1-1/2	1-1/2
Second	2-1/2	2-3/4
Third	3-1/2	3-3/4
Fourth	4-1/2	4-3/4
Fifth	6-1/2	6-3/4
Sixth	11-1/4	12
Reverse	3	3-1/4

"GH" Tractor.

Gear	M.P.H. with 12-38 Regular Tires	M.P.H. with 12-38 Cane and Rice Tires
First	2-1/4	2-1/2
Second	3-1/4	3-1/2
Third	4-1/4	4-1/2
Fourth	6	6-1/4
Fifth	8-1/4	8-1/2
Sixth	11-3/4	12-1/4
Reverse	3	3-1/4

SHIPPING WEIGHTS

"AH" Tractor with 11-38 Tires.....	6400 lbs.
"GH" Tractor with 12-38 Tires.....	6940 lbs.

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LUBRICATION

The "A" or "G" Operator's Manual contains complete instructions for periodic lubrication of all points of your "AH" or "GH" Tractor except those noted below. Of special importance are the following lubrication points:

Crankcase
Transmission
Air Cleaner
Powr-Trol
Oil Filter

See your "A" or "G"
Operator's Manual

The only differences between lubrication of your Hi-Crop Tractor and an "A" or "G" Tractor are the final drives, brakes, and grease fittings. The following instructions cover these points.

Final Drives.

When transmission oil is changed, drain each final drive housing and refill to oil level plug (Figure 1), using chart below as a guide to proper weight of lubricant. Capacity of each final drive housing is 1-3/4 U.S. quarts.

TEMPERATURE- WEIGHT CHART FOR FINAL DRIVE LUBRICANT

Air Temperature	Weight of Oil
32° F. and up	SAE 140
Below 32° F.	SAE 90

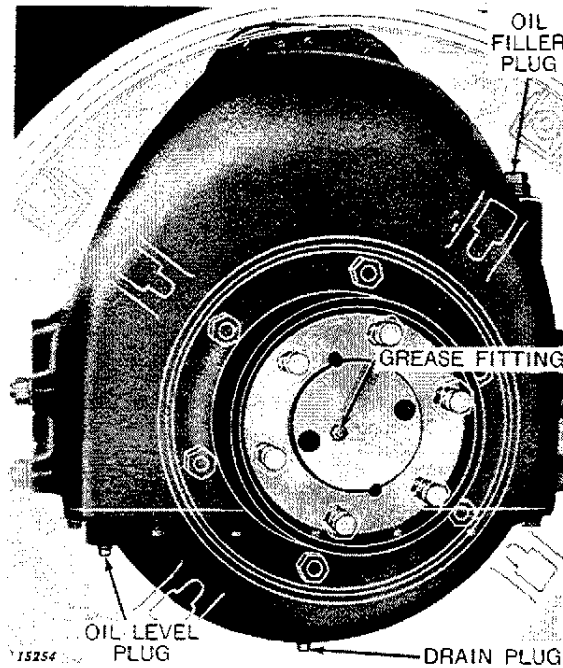


Figure 1—Final Drive Housing

Brakes.

Lubricate outer brake bearings every 500 hours with regular engine oil of the same weight as is used in the crankcase. Reservoir is filled through upper 1/8-inch pipe plug hole located on the inside of outer brake shaft housing flange.

Servicing Grease Fittings.

Service all grease fittings with pressure-gun grease, wiping off fittings beforehand.

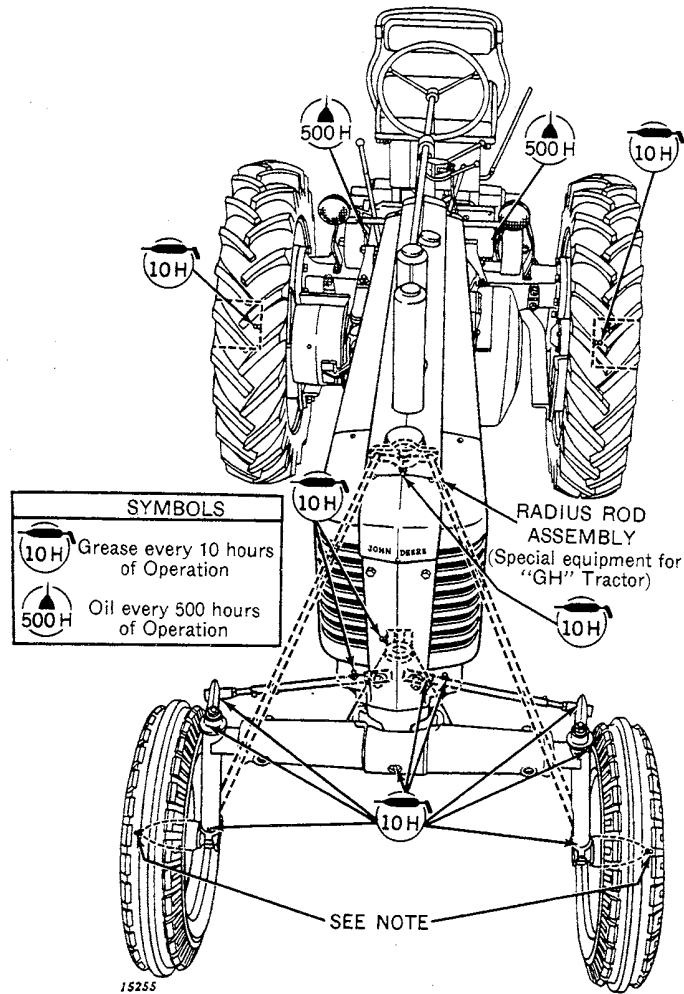


Figure 2—Lubrication Chart

NOTE: Front wheels are packed with wheel bearing grease at the factory and need cleaning and repacking every 6 months under normal conditions.

Where there is danger of mud and water getting into the front wheel bearings, due to operating in extremely wet and muddy conditions, grease front wheels **every** 10 hours with gun grease until the wheels can be removed and bearings cleaned and repacked with wheel bearing grease.

TIRE INFLATION

FRONT TIRES (ALL SIZES)

4-Ply—28 lbs.

6-Ply—36 lbs.

8-Ply—36 lbs.

When using mounted implements, consult implement instructions for front and rear tire pressures.

REAR TIRES

Model	Tire Size	Ply	Inflation Pressure Without Added Weight	Maximum Permissible Additional Weight per Wheel at Maximum Recommended Inflation Pressure
"AH"	11-38	6	16	450 at 20 lbs.
"AH"	12-38	6	12	450 at 16 lbs.
"GH"	12-38	6	12	870 at 20 lbs.

USING THE DRAWBAR

To meet variable crop conditions and provide a suitable hitch for a variety of special tools, the drawbar on Hi-Crop Tractors is provided with three vertical adjustments. In the low position on the "AH" Tractor, the drawbar height is 14 inches; in the intermediate setting, the height is 25 inches, and in the high position, the height is 32 inches. On the "GH" Tractor the heights are 15, 26, and 33 inches. (See Figure 3.)

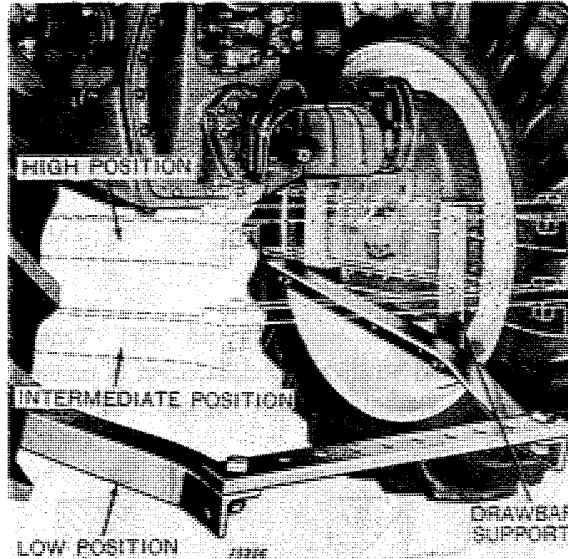


Figure 3—Drawbar Setting

CAUTION: When doing heavy drawbar work, the drawbar must be in the low position. Intermediate and high drawbar positions are to be used for light drawbar work only.

For extremely muddy or trashy conditions, a narrow drawbar setting is provided (Figure 4). The drawbar sides are removed from the drawbar

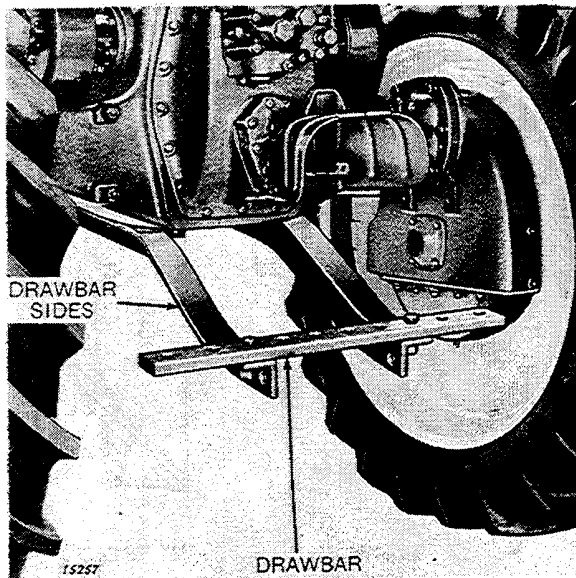


Figure 4—Narrow Drawbar Setting

supports and attached underneath the drive shaft housing with front-support-to-final-drive-gear-housing cap screws. Side-to-support bolts are used for attaching drawbar to sides.

When in the narrow position, drawbar height is 25 inches on the "AH" Tractor and 26 inches on the "GH" Tractor. **CAUTION:** Only light drawbar loads should be attempted with drawbar in this position.

For additional drawbar information see the "A" or "G" Operator's Manual.

WHEEL TREAD ADJUSTMENT

Front Wheel Adjustment.

Front wheel tread is adjustable to 60, 66, 72, 78, and 84 inches. Adjustment is made in a manner similar to that used on "AW" and "GW" Tractors.

Rear Wheel Adjustment.

Rear wheel tread on "AH" and "GH" Tractors is adjustable to 60, 66, 72, 78, 84, and 90 inches. Adjustment is made by shifting position of the hubs and wheels as shown in Figures 5 and 6.

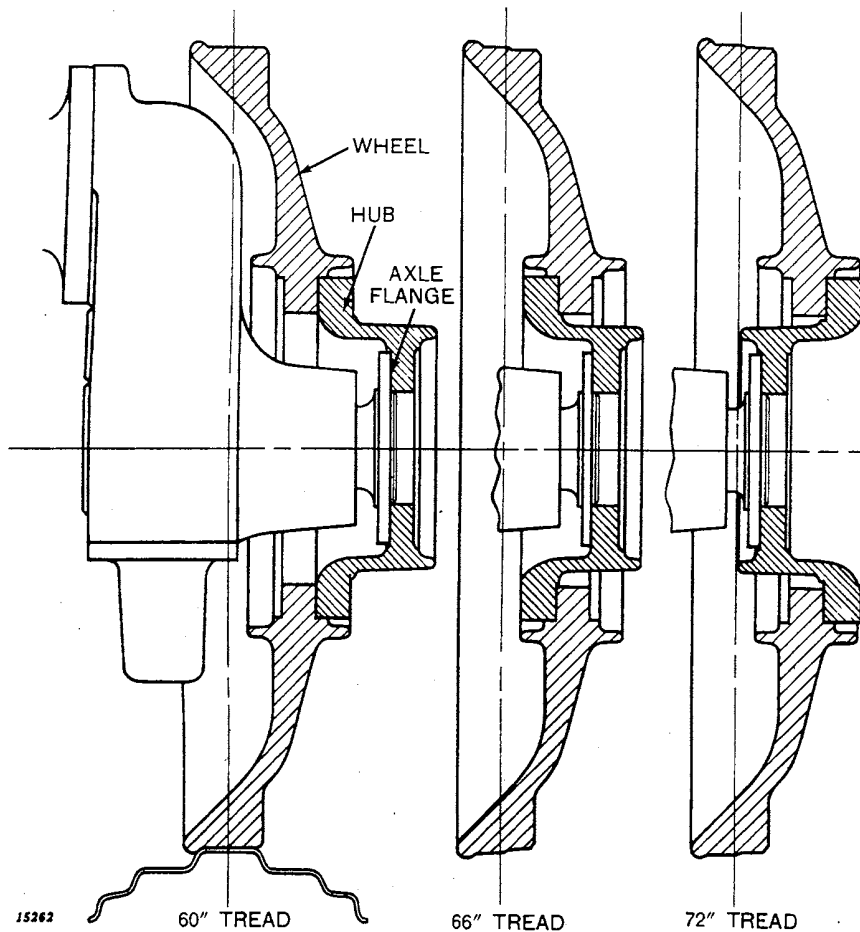


Figure 5—Rear Wheel and Hub Positions for 60-, 66-, and 72-Inch Treads

It will be observed that all rear wheel tread widths except 84 and 90 inches can be obtained without reversing the rear wheels. For 84- and 90-inch tread widths it is necessary to reverse the wheels and install them on opposite sides of the tractor.

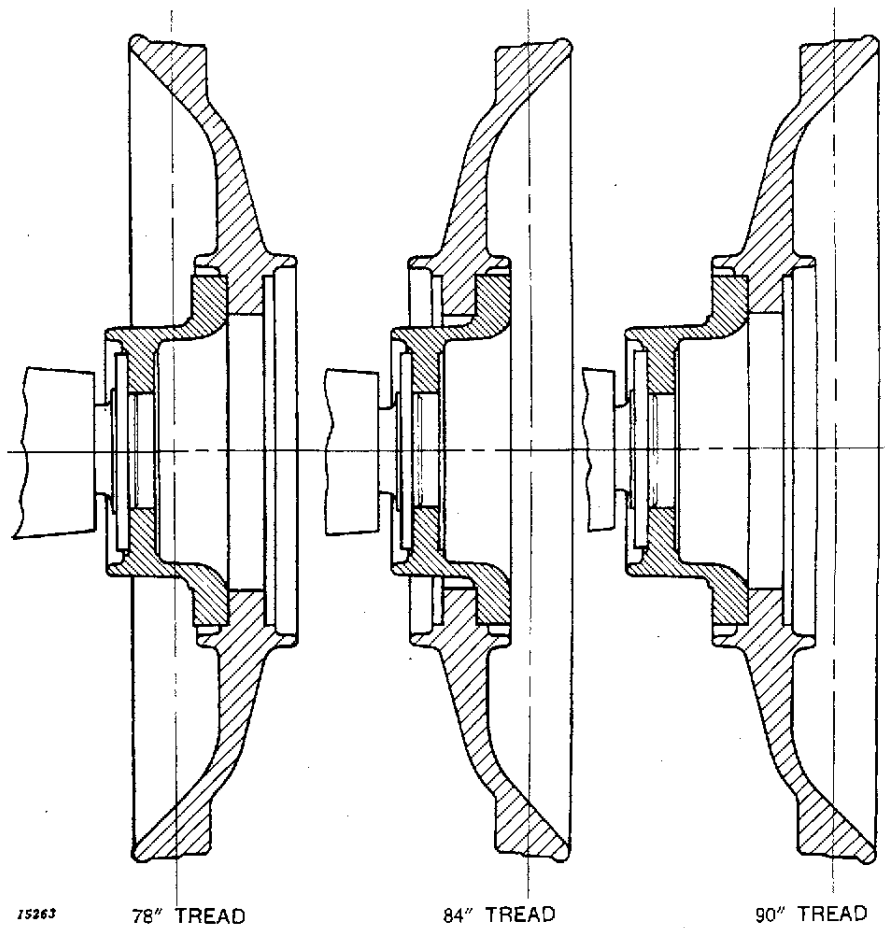


Figure 6—Rear Wheel and Hub Positions for 78-, 84-, and 90-Inch Treads

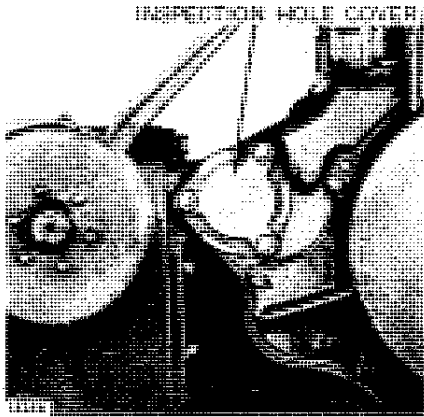


Figure 7—Inspection Hole Cover

GENERAL SERVICE INFORMATION

Final Drive Service.

To check chain slack, remove inspection hole cover located in the transmission case just forward of the brake (Figure 7). Chain should not have less than 1/2-inch nor more than 1-3/4-inch slack (Figure 8).

If too much slack is present, adjust as follows:

Remove brake drum (Figure 9) and brake housing stud nuts, pull

brake housing just off mounting studs and rotate to the rear until chain is tight. Then rotate forward to the next series of holes.

Replace stud nuts and tighten.

Remove bolts which secure brake shoe carrier to housing (Figure 9) and rotate carrier forward until brake pedal is positioned in previous location. Replace bolts and tighten nuts.

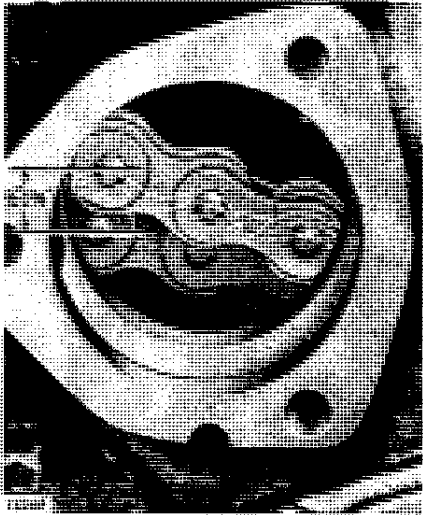


Figure 8—Inspecting Slack in Chain

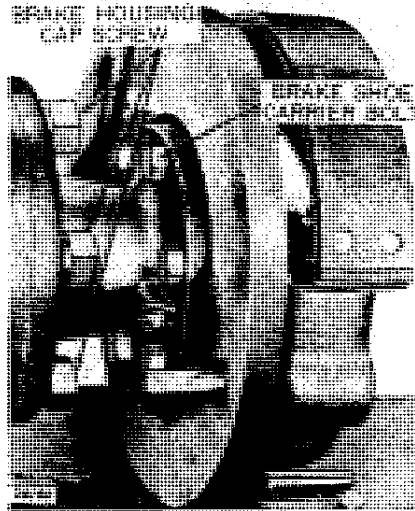


Figure 9—Brake Assembly



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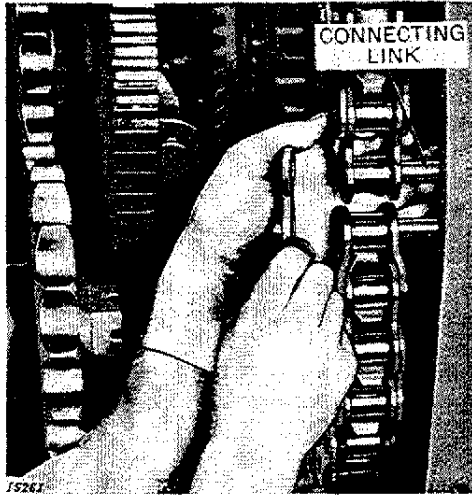


Figure 10—Installing Connecting Link

When replacing chains, connecting link should **always** be installed from the outside of the chain toward the center of the housing (Figure 10).

Drive Shaft.

Adjust drive shaft bearings to 0.004-inch end play, then tighten nut to nearest castellation to insert cotter pin.

Rear Axle Shaft.

Adjust rear axle shaft bearings by tightening the rear axle shaft nut to deflect inner rear axle bearing boss 0.002-inch, then tighten to the next castellation to insert cotter pin.

Differential.

To remove differential assembly, remove inner snap rings from grooves and position them with sprocket against the bevel gear and remove from case.

To install differential assembly; first, assemble inner snap rings and sprockets onto bevel gear splines to position them against the bevel gear and assemble outer snap rings in outer grooves. Second, after differential assembly is installed in case, position sprocket against outer snap rings and insert inner snap rings in grooves.

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