

55 COMBINE



OPERATORS MANUAL

55 COMBINE

OMH131158 K8 English

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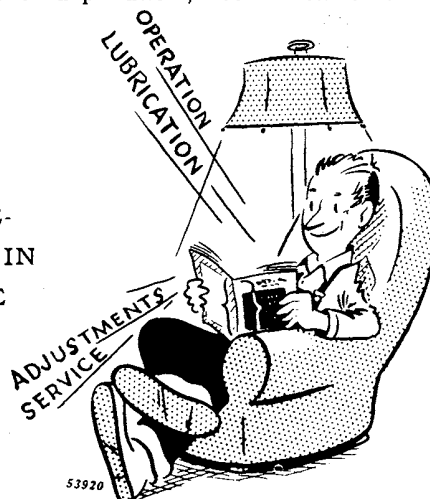
LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

The combine you have just purchased was designed and built to the traditionally high quality standards of all John Deere Farm Equipment. Your combine has been thoroughly inspected and tested not only at the factory but at your dealer's by a trained John Deere Serviceman. We are confident that you will receive years of dependable, economical service from your John Deere Combine.

STUDY THIS MANUAL CAREFULLY AND KEEP IT HANDY IN A SAFE PLACE FOR FUTURE REFERENCE.



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 and handling of the combine. He has trained mechanics who are kept informed on the best methods of John Deere Combine servicing and can give you prompt know-how service in the field or in his shop.



Because the first thing **every day**, I

- ✓ Lubricated the combine properly.
- ✓ Checked the water, oil, and fuel for the combine engine.
- ✓ Made the proper adjustments for the crop and field conditions.

**THESE DAILY PRECAUTIONS
WILL INSURE GOOD PERFORMANCE
AND LONG SERVICE**

LOCATION REFERENCE

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

"Clockwise" refers to parts turning to the right like the hands of a clock. "Counter-clockwise" refers to parts turning to the left.

Engine Reference Only. Timing gear end of engine is referred to as the "front," flywheel end as the "rear."

KEEP YOUR COMBINE A JOHN DEERE COMBINE

Genuine John Deere Parts are made to fit properly and insure satisfactory service because they are made from the original patterns and from the same materials as used in new machines. Should your combine require replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere Parts—accept no substitutes.

SERIAL NUMBERS

The separator, engine, axle, and cutting platform have serial numbers.

When ordering parts, refer to the model and serial number. By doing so, you will assist your John Deere dealer in giving you prompt, efficient service.

Record the serial numbers in the spaces provided below. It is a good plan to copy the serial numbers down on a card to be carried in your bill-fold for quick reference.

The separator serial number is stamped on a plate located on the support bracket for the rear end of the fuel tank.

The engine serial number is stamped on a plate located on top of the flywheel housing.

The axle serial number is stamped on the top, left-hand end of the axle tube.

The cutting platform serial number is stamped on a plate located on the right-hand side of the cutting platform.

Separator Serial No.

Engine Serial No.

Axle Serial No.

Cutting Platform Serial No.

Date Purchased.

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Hello dear friend!

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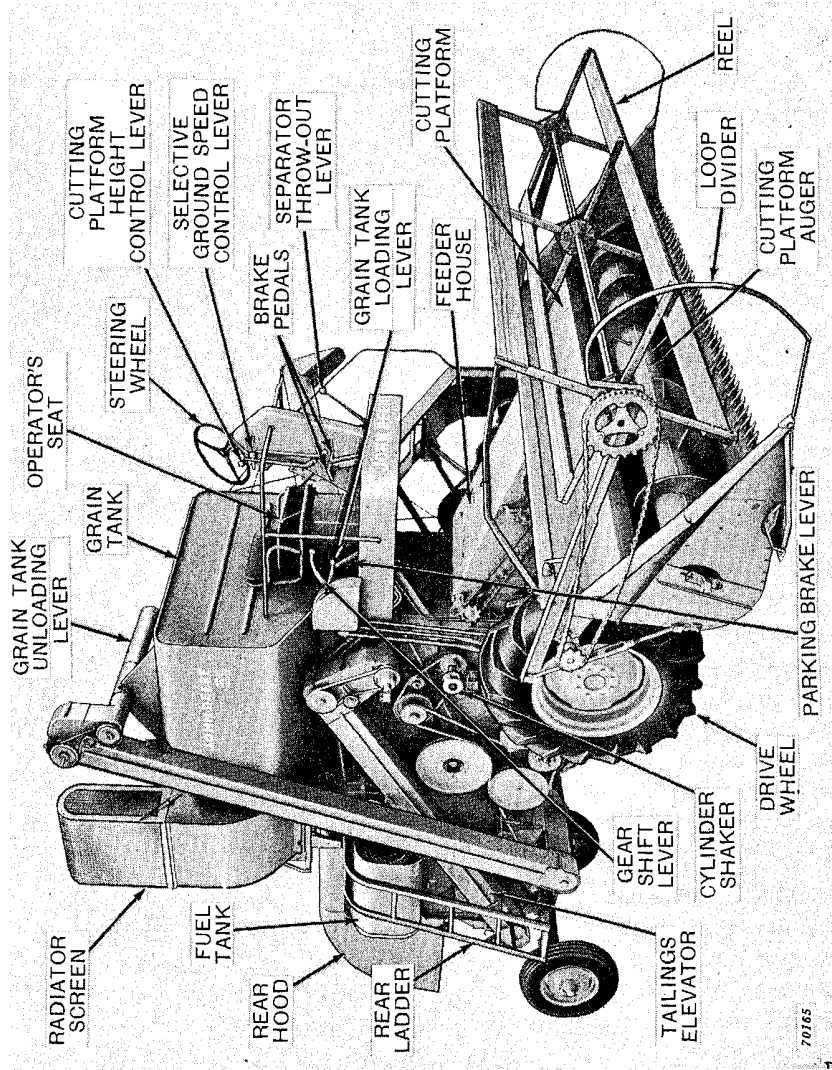
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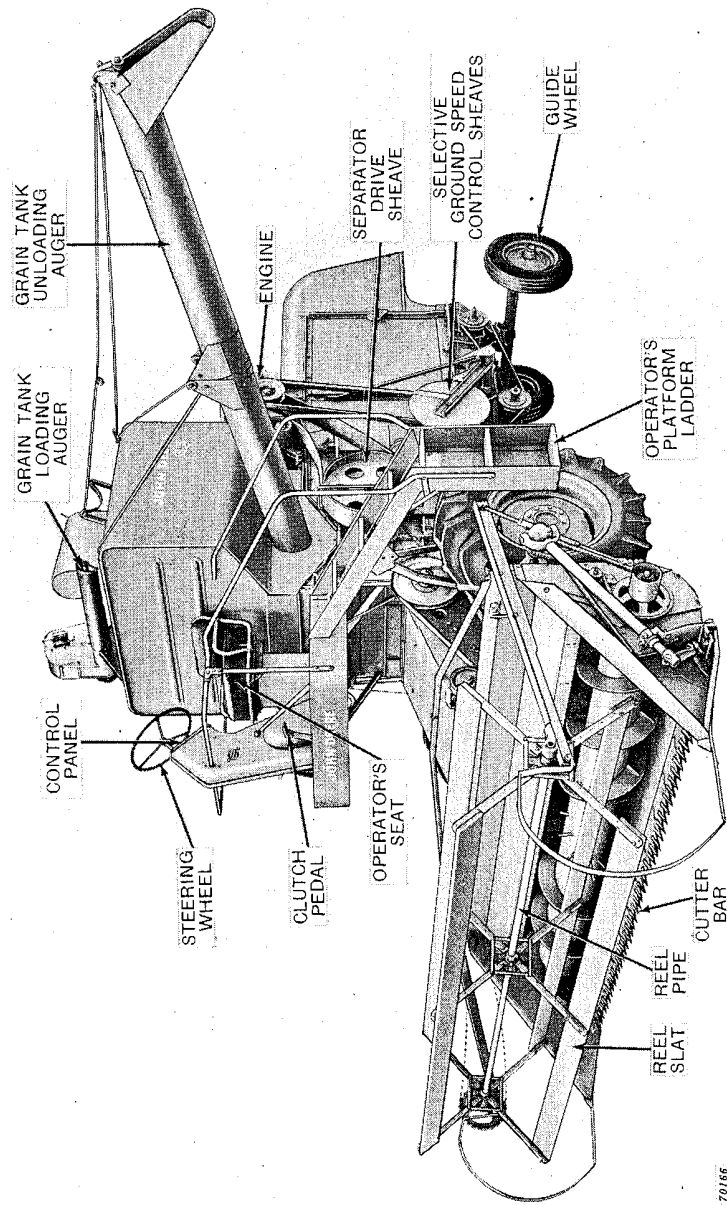
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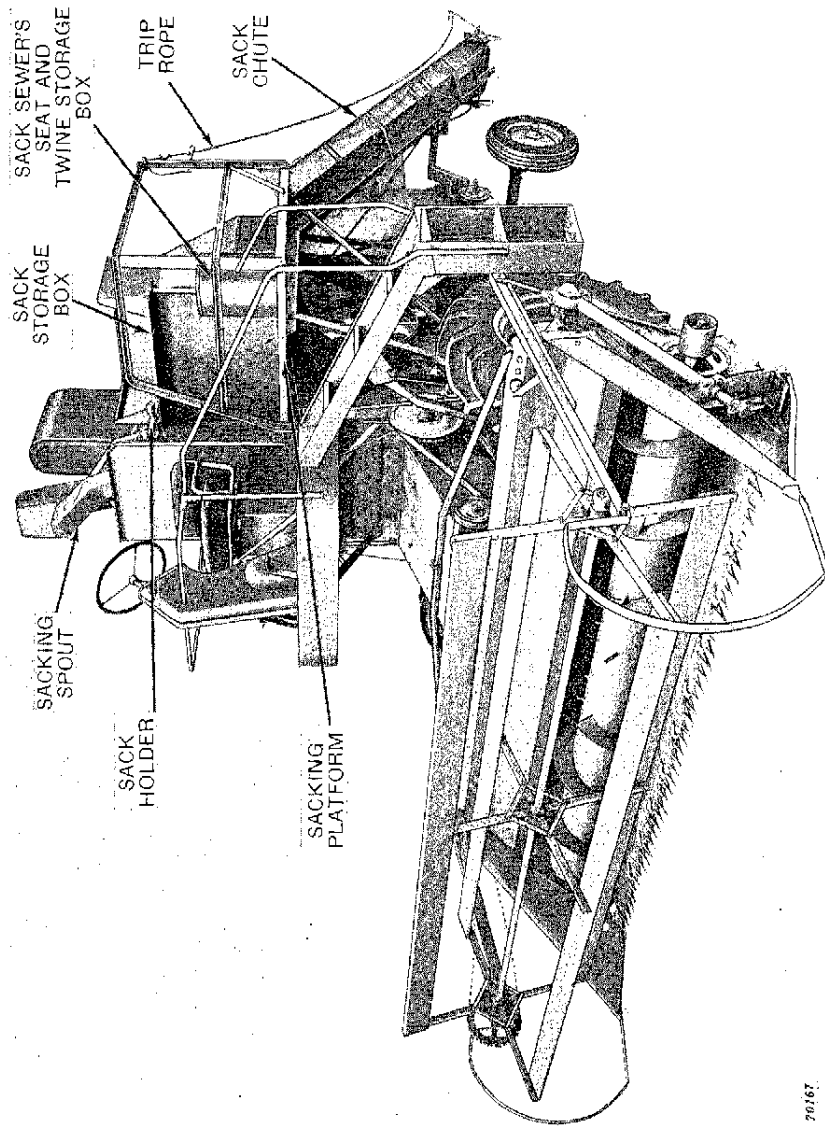


Right-Hand Complete View of John Deere 55 Self-Propelled Combine (with Grain Tank)



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Left-Hand Complete View of John Deere 55 Self-Propelled Combine (with Grain Tank)



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Left-Hand Complete View of John Deere 55 Self-Propelled Combine (with Sacking Attachment)

SPECIFICATIONS

7

COMBINE

Cutter Bar

Width of Cut... 12-Ft. or 14-Ft.
Length of Cutter Bar..... 11-Ft. 6-In. or 13-Ft. 6-In.

Type of Knife

Sections..... Heavy-Duty Over-serrated

Reel

Speed Range.... 18.5 to 44.2 rpm
Drive..... Chain
No. of Bats.... 3, 4, 6, or 8
Dia. of Reel.... 31-3/8-In. or 42-In.

Cutting Platform

Type..... Auger
Hinged or Rigid. Hinged
Range of Cutting Height (Grain) 2-1/2-In. to 35-In.
Range of Cutting Height (Rice). 2-1/2-In. to 38-In.
Control..... Hydraulic (2 Rams)

Platform Auger

Diameter..... 18-In.
Diameter of Auger Tube... 10-In.
Type of Auger Fingers..... Round Retracting

Cylinder

Type..... Rasp-Bar or Spike-Tooth
Width..... 30 Inches
Diameter..... 22 Inches
Speed..... 196 to 1190 rpm
Drive..... Roller Chain

Concave

Type..... 12-Bar Open-Type or Spike-Tooth Type

Beater

Type..... Wing or Drum
Width..... 30 Inches
Speed..... 680 to 685 rpm
Drive..... Belt (Flat)

Separator

Type..... 3 Straw Walker
Width..... 30 Inches
Length..... 10 Ft. 10 In.

Grain Conveyor

Type..... Slat
Drive..... Chain

Fan

Type..... 5-Bladed Undershot
Speed Range.... 540 to 680 rpm (550 to 810 rpm with Special Sheave)
Drive..... V-Belt

Chaffer

Type..... Adjustable
Width..... 28-1/2 Inches
Length..... 48 Inches

Sieve

Type..... Adjustable
Width..... 28-1/2 Inches
Length..... 45 Inches

Straw Walkers

Number..... Three
Length..... 105 Inches
Width..... 9-1/2-Inches
Drive..... V-Belt
Speed..... 208 rpm
Bearings..... Oil Soaked Maple
Extension Pans. One on Each Walker

Grain Tank

Capacity..... 55-Bushel
Type of Unloading..... Rigid or Hinged Unloading Auger (Optional)

Brakes

Type..... Individual, Mechanical Disk-Type

COMBINE—Continued**WEIGHTS**

Grain Combine with 12-Foot Cutting Platform 8,129 Lbs. (Approx.)

Sacker Combine with 12-Foot Cutting Platform 8,061 Lbs. (Approx.)

Rice Combine with 12-Foot Cutting Platform 9,064 Lbs. (Approx.)

TIRE SIZES

Drive Wheels		Rear Wheels	
(Grain)	13-26 Cleat	(Grain and Bean)	6.00-16 Rib Implement
(Grain)	13-26 Low Profile		
(Grain)	14-26 Low Profile	(Grain)	6.50-16 Rib Implement
(Grain)	14-26 Cleat		
(Grain)	14-26 Low Profile	(Grain)	7.50-16 Rib Implement
(Grain)	15-26 Low Profile (16" Rims)		
(Grain)	15-26 Cleat	(Grain, Bean, and Rice)	7.50-18 Skid Ring
(Grain and Bean)	15-26 Rice (16" Rims)		
(Rice)	18-26 Rice (16" Rims)	(Rice)	7.50-20 Rib Implement
(Rice)	18-26 Rice (20" Rims)	(Rice Crawler)	7.50-20 Rib Implement
(Rice Crawler) . .	16" Tracks		

DRIVE WHEEL TREAD

Combine	Drive Wheel Position	Tire Size	Spacers	c/c Drive Wheel Tread
55 Grain	Dished In	13-26	No	76 Inches
55 Grain	Dished Out	13-26	No	89-13/16 Inches
55 Bean	Dished In	15-26 on 16" Rim	Yes	82 Inches
55 Bean	Dished In	15-26 on 16" Rim	No	73 Inches
55 Bean	Dished Out	15-26 on 16" Rim	Yes	90 Inches
55 Bean	Dished Out	15-26 on 16" Rim	No	81 Inches
55 Rice	Dished Out	18-26 on 16" Rim	Yes	90 Inches
55 Rice	Dished Out	18-26 on 20" Rim	Yes	94 Inches
55 Rice Crawler		Tracks	...	114-11/16 Inches

TRANSMISSION

Type.....Automotive—4-Speeds Forward, 1 Reverse

SELECTIVE GROUND SPEED CONTROL RANGE

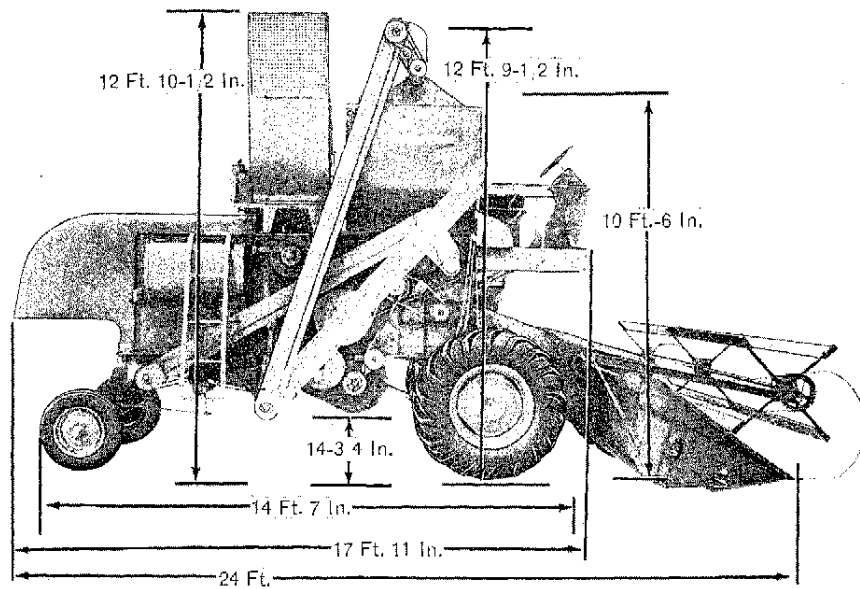
13-26 TIRES—GRAIN DRIVE (Min.) (Max.) 1st Gear..... .63 to 1.42 mph 2nd Gear..... 1.26 to 2.84 mph 3rd Gear..... 2.60 to 5.84 mph 4th Gear..... 5.20 to 11.70 mph Reverse..... 1.64 to 3.69 mph	14-26 TIRES—GRAIN DRIVE (Min.) (Max.) 1st Gear..... .65 to 1.46 mph 2nd Gear..... 1.30 to 2.92 mph 3rd Gear..... 2.65 to 5.95 mph 4th Gear..... 5.30 to 11.90 mph Reverse..... 1.67 to 3.74 mph
15-26 TIRES—GRAIN DRIVE (Min.) (Max.) 1st Gear..... .68 to 1.54 mph 2nd Gear..... 1.37 to 3.08 mph 3rd Gear..... 2.82 to 6.52 mph 4th Gear..... 5.64 to 12.70 mph Reverse..... 1.77 to 4.00 mph	15-26 TIRES—RICE DRIVE (Min.) (Max.) 1st Gear..... .59 to 1.34 mph 2nd Gear..... 1.18 to 2.67 mph 3rd Gear..... 2.42 to 5.45 mph 4th Gear..... 4.83 to 10.08 mph Reverse..... 1.52 to 3.42 mph
18-26 TIRES—RICE DRIVE (Min.) (Max.) 1st Gear..... .64 to 1.44 mph 2nd Gear..... 1.28 to 2.88 mph 3rd Gear..... 2.61 to 5.85 mph 4th Gear..... 5.22 to 11.72 mph Reverse..... 1.63 to 3.69 mph	TRACKS—GRAIN DRIVE (Min.) (Max.) 1st Gear..... .35 to .81 mph 2nd Gear..... .72 to 1.62 mph 3rd Gear..... 1.46 to 3.29 mph 4th Gear..... 2.93 to 6.58 mph Reverse..... .92 to 2.07 mph

Capacities (Approx.)

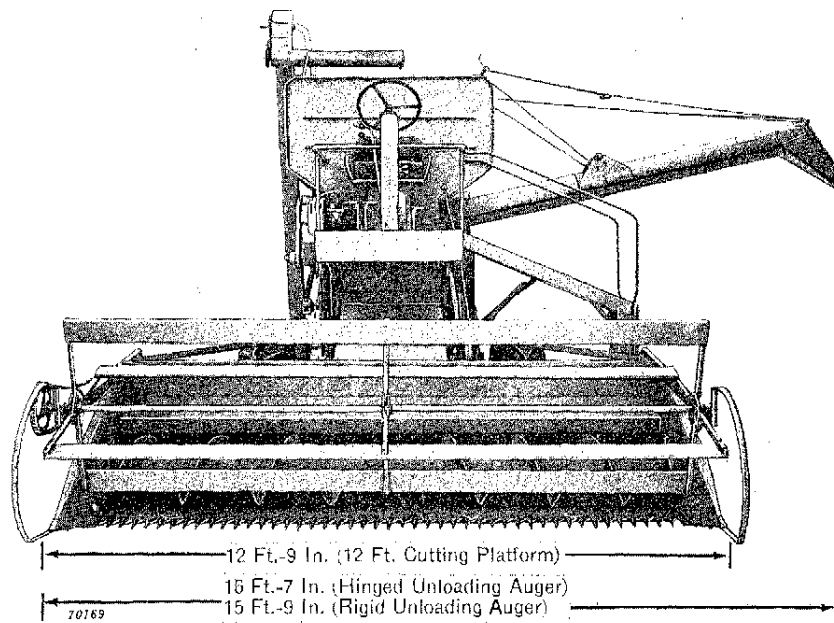
Fuel Tank..... 25 U.S. Gallons
Cooling System
(Radiator)..... 6 U.S. Gallons
Engine Crankcase 4 U.S. Quarts
Oil Filter..... 1 U.S. Quart

Air Cleaner..... 1 U.S. Quart
Hydraulic Unit (In-
cluding Hydraulic
Oil Lines and Cyl-
inders)..... 7 U.S. Quarts

DIMENSIONS—OVER-ALL

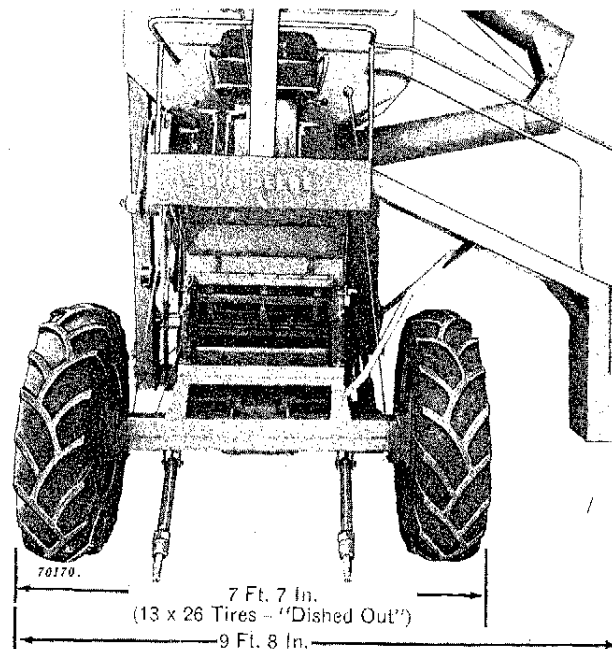
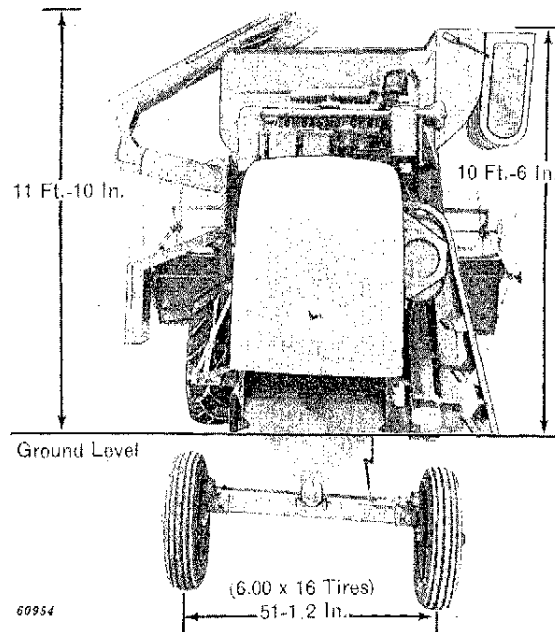


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DIMENSIONS—OVER-ALL



ENGINE

NOTE: For LP-Gas or Diesel Engine Specifications, see Operator's Manual furnished with LP-Gas or Diesel Combine.

Make of En-

gine.....	John Deere HA-217G (Gasoline)
Bore.....	3-5/8-In.
Stroke.....	3-1/2-In.
Brake Horse- power.....	64
Number of Cyl- inders.....	6
Piston Displace- ment.....	217 Cu. In.
Max. Load Speed.....	2200 rpm
Firing Order...	1-5-3-6-2-4
Crankcase.....	Cast Integral with Block
Type of Lubri- cation.....	Force Feed by Gear Pump to All Connecting Rods, Main Bearings, Governor, and Oil Pump Drive. Oil Strainer in Bottom of Pan.

Valve Arrange-
ment.....

Valve-in-Head

Valve Clearance

Intake..... .015-In. (When
Cold)Exhaust..... .015-In. (When
Cold)Make of Gover-
nor.....

John Deere

Make of Carbu-
retor.....

Marvel-Schebler

Spark Plug.... Champion H-10 or
Auto-Lite AL-7 or
AC-45L, Gap .025-
In., Heat Range
1200° to 1500° F.Electrical Sys-
tem.....12-Volt (Two 6-
Volt Batteries)Type of Fuel... Gasoline (Regular
Grade)

SPECIAL EQUIPMENT AVAILABLE

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LUBRICATION

The economical and efficient operation of any machine depends on regular and proper lubrication of all moving parts with a quality lubricant. This is especially true of farm equipment which must operate in hot, dusty conditions over rough ground. Neglected lubrication quickly leads to reduced efficiency, heavy draft, wear, breakdown, and replacement of parts.

Use a clean container for storing and handling all lubricants. **See that only clean lubricants go into the working parts of your combine.**

LUBRICATION CHARTS

All lubrication points will be found in the lubrication charts that follow. The way the charts have been grouped organizes your lubrication work for you.

4 Hour Lubrication	Page 15
4 and 8 Hour Lubrication	Pages 16 and 17
4, 8, and 40 Hour Lubrication	Page 17
8 Hour Lubrication	Pages 18 to 22
150 Hour Lubrication	Pages 23 to 28 Inclusive
300 Hour Lubrication	Pages 29 to 34 Inclusive

For the 4, 8, 40, and 150 Hour Lubrication Points, use a good grade of gun grease. For the 300 Hour, use a **high temperature ball or roller bearing grease of medium consistency. Do not use regular gun grease.**

BEARINGS.

Lubricate at all grease fittings thoroughly, with a good grade of gun grease, until grease oozes out of bearing. This assures that the bearing is full, and also flushes out dirt that may have accumulated in the bearing. However, avoid excessive lubrication. Excessive lubricant that has dropped onto belts should be wiped off immediately to avoid belt slippage.

Two types of sealed bearings are used on this combine. One type is a sealed for life bearing which requires no lubrication; the other type is pre-packed at the factory and will require yearly lubrication.

To lubricate bearings where a pipe plug is provided in bearing housing, remove the pipe plug and insert a 1/8-inch diameter slotted grease fitting (JD7805); the slotted fitting allows the bearing housing to be filled to capacity without blowing out seals due to pressure building up. Then remove grease fitting and replace pipe plug.

Where no end cap or pipe plug is provided in bearing housing, it will be necessary to pull bearing housing from shaft to pack bearing with new grease. Clean bearing with a safe solvent and pack with new grease. Re-install bearing housing.

LUBRICATION OF LINKAGES.

When lubricating the combine, make a practice of putting a few drops of oil on all clevises, linkages, and other moving parts. This will make them work easier and prolong their life.

LUBRICATION OF CHAINS.

Chains should be lubricated at frequent intervals. A good grade of light machine oil should be used. A paint brush is a good instrument for applying oil to chains. **CAUTION: Do not oil chains when operating in sandy conditions. Sand will stick to the oiled chain and act as an abrasive.**

KNIFE LUBRICATION.

The amount of lubricant to use on a knife depends on the conditions in which the work is being done. When the grain is being topped and the cutter bar is carried some distance from the ground, liberal lubrication with oil is permissible. In conditions where the cutter bar must operate close to the ground, it is better not to use oil except for a small amount on the knife holders.

HYDRAULIC UNIT.

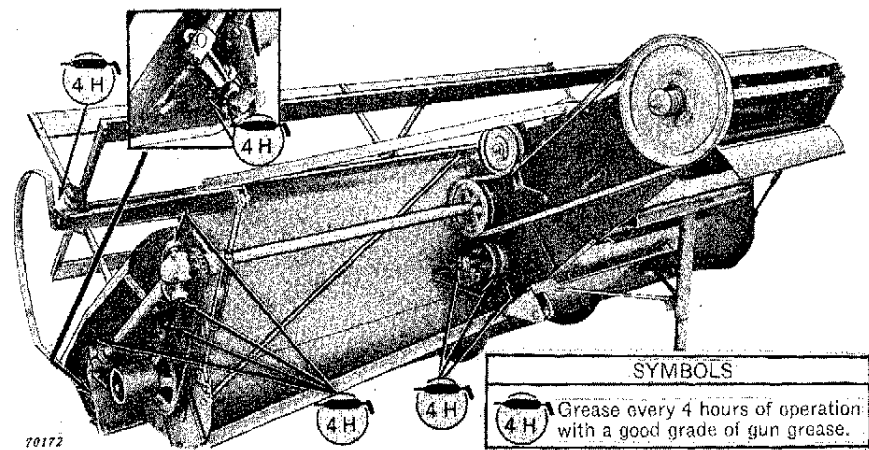
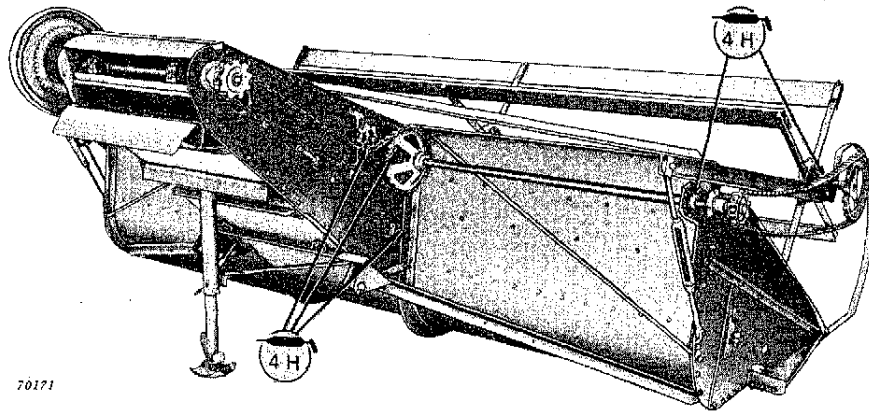
A premium grade of engine oil is recommended for use in the hydraulic unit—see page 33. Check oil level daily. Be sure platform is lowered to the ground when checking or adding oil.

ENGINE BREAK-IN.

The engine on your new combine is shipped from the factory with a special break-in oil in the crankcase. After 150 hours of operation, this oil must be drained from the crankcase and oil filter and replaced with 5 quarts of oil no heavier than SAE 10W or SAE 5W-20 if temperature is below 32° F.; SAE 20 or 10W-30 if temperature is above 32° F.

THE COMPLETE OBSERVANCE of one simple rule would prevent many thousand serious injuries each year. THAT RULE IS: "NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST A MACHINE WHILE IT IS IN MOTION."
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EVERY 4 HOURS OF OPERATION





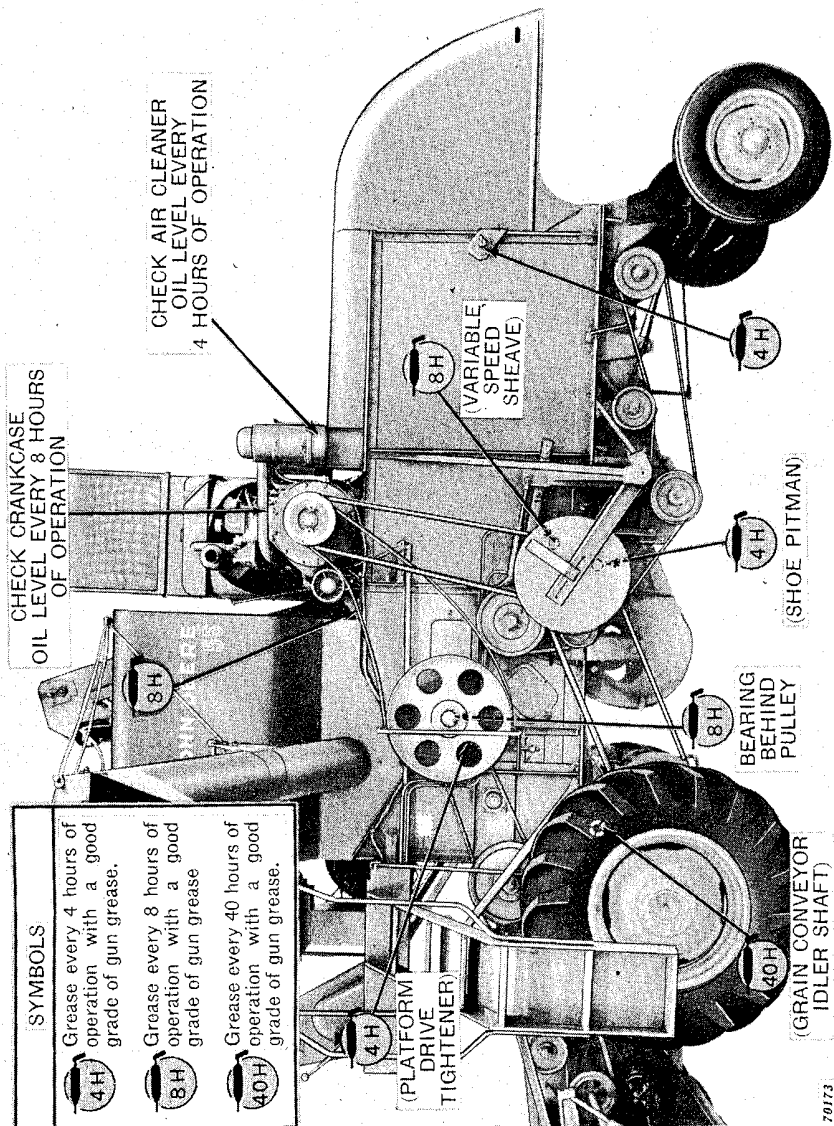
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