

No. 12-A Straight-Through Combine (66-Inch Cut) (Serial No. 12-72049 and Up)



JOHN DEERE

OPERATORS MANUAL

No. 12-A Straight-Through Combine (66-Inch Cut)
(Serial No. 12-72049 and Up)

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FOREWORD

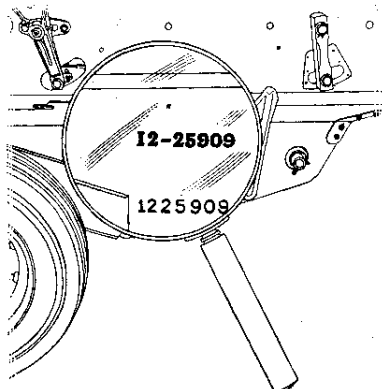
The purpose of this book is to supply useful harvesting information to owners and operators of John Deere No. 12-A "Straight-Through" Combines. This information should help in choosing the proper adjustment and special equipment required to meet each harvesting condition.

A Combine must be built to harvest a wide range of conditions. Average conditions can be handled by the standard equipment with which combine is shipped. However, unusual conditions may require some special equipment.

In addition to the standard equipment which comes with machine and the special attachments that are available at extra cost, it is sometimes necessary and advisable to make certain other equipment in the field, in order for machine to handle some unusual or purely local condition. This book contains suggestions for such special equipment. It must, of course be understood that these are only suggestions to help meet unusual situations, and therefore, they should be used only after trying all normal adjustments and recommended equipment.

Conditions vary, not only from year to year and section to section, but also from field to field. It is, therefore, obviously impossible to give definite rules for combine operation that will directly apply in every case. It is entirely possible that there are several solutions to any particular threshing problem. For this reason, we give numerous suggestions, some of which may conflict, and you can use the one that best suits your needs.

It is often necessary to settle on a compromise of adjustments to save the maximum amount of the crop. To illustrate, in a trashy condition where a large volume of straw stems, weed joints, etc., is being delivered to the cleaning unit along with the grain, it is advisable to open the chaffer and sieve a little wider and accept a slightly dirtier sample rather than to close the sieves and receive a cleaner sample but allow too much grain to pass out of machine with the blanket of trash.



SERIAL NUMBER

The Serial Number of your
Combine is.....

You will find the serial number
stencilled and stamped on the
L. H. side of separator just above
the clean grain auger housing.
Write the number in the above
space.

Date Purchased....., 19....

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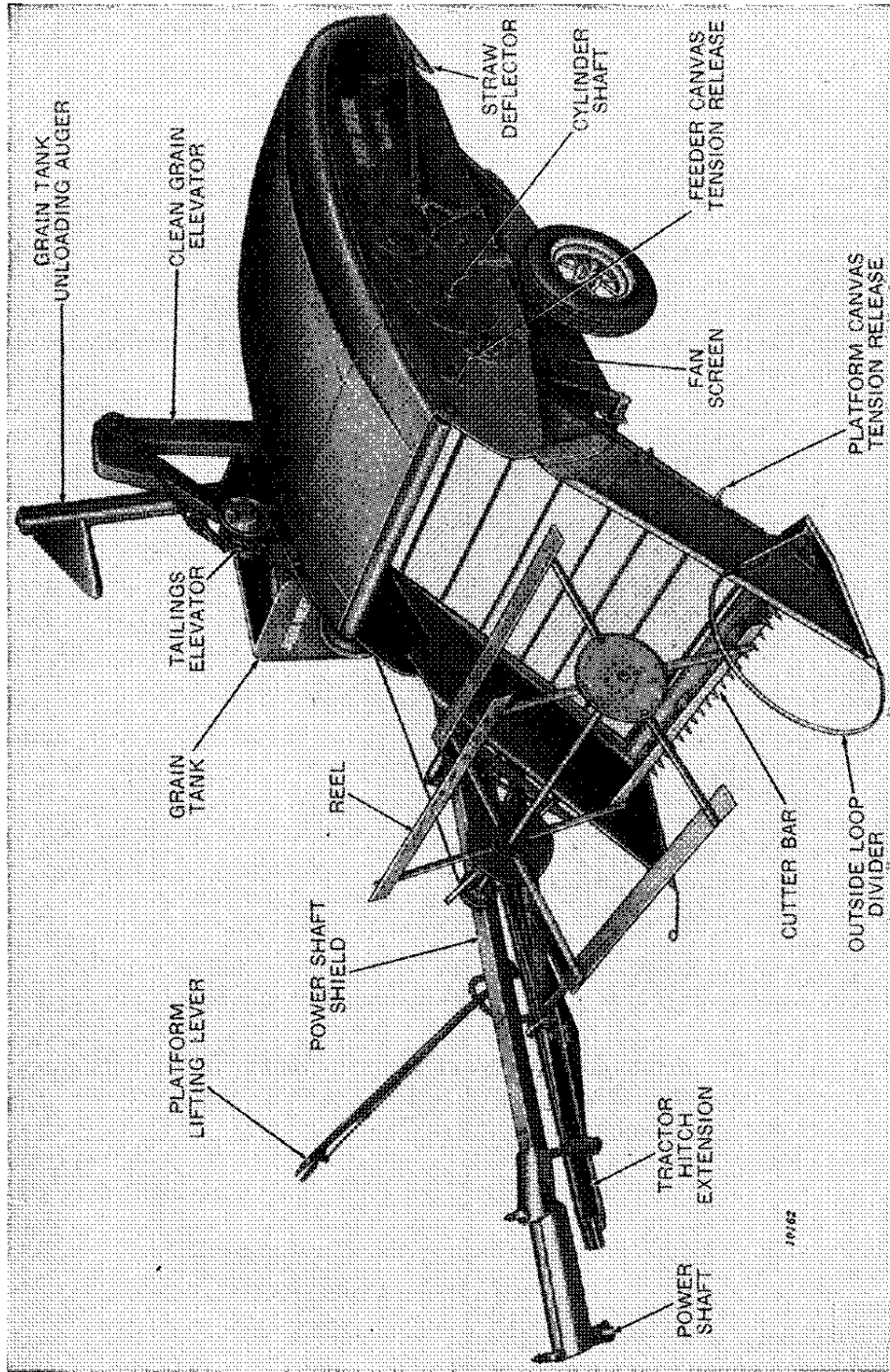
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Complete View of John Deere No. 12-A Combine

SPECIFICATIONS AND DATA

Distance Between Divider Points.....	72"
Length Cutter Bar.....	66"
Right- or Left-Hand Cut.....	Left
Sickle Front or to Side of Cylinder.....	Front
Header Hinged or Rigid.....	Hinged
Range Cutting Height.....	1-1/2"—40"
Canvas Conveyor or Spiral.....	Canvas
Width Canvas.....	59"
Reel, Ground or Power Drive.....	Ground
Reel Adjustable from Tractor Seat?.....	Optional
No. of Bats on Reel.....	4 (●●)
Type of Cylinder.....	Rasp
Width of Cylinder.....	60"
Diam. of Cylinder.....	15"
Speed Range of Cylinder.....	450—1625 R.P.M.
Width Thresher Rear.....	60"
Length Separator Surface.....	76" (†)
Type of Thresher.....	Unit Rack
Width and Length Chaffer and Cleaning Sieves.....	36" x 34"
Recleaner Available?.....	Yes
Power T-O or Engine Drive.....	Power Take-Off (***)
Drive to Cylinder.....	V-Belt
No. of Wheels.....	2
Tire Size, Main Wheels.....	6.50 x 16
Cylinder Bearings.....	New Departure (††)
Beater Bearings.....	Hyatt
Fan Bearings.....	Hyatt
Main Wheel Bearings.....	Timken
Length with Tractor Hitch.....	19' 4"
Width Over-All, Cutting.....	10' 8"
Width Over-All, Transport.....	10' 8"
Height Over Elevator.....	8' 2"
Capacity Grain Tank.....	20 Bu.
Shipping Weight, Standard Equipped.....	About 2900 Lbs.

† Measured in a straight line from center of cylinder shaft to point of discharge of straw.

†† Sealed Ball.

*** Engine Optional

●● Six and Eight Bat Optional.

IMPORTANT

Read carefully the instructions referred to on this page before starting to combine.

Lubricate your combine thoroughly and regularly. See grease charts pages 10 to 15, incl.

Keep your combine in good mechanical repair.

Slip clutches should be set tight enough to operate under load but to allow slipping should an overload occur. See page 79.

Don't overload. Vary your travel speed according to the volume of your crop. See page 18.

Be familiar with the fundamentals of combining. See page 88.

Break in your combine carefully. See page 16.

Don't start combining before your crop is ripe. See page 17.

If your crop is to be windrowed read pages 85 to 87, incl.

Be familiar with all operating adjustments. See pages 21 to 82, incl.

See pages 89 to 138, incl., for information on combining various crops.

Don't shift unloading auger drive lever without first disengaging power take-off. See page 77.

Take proper care of V-Belts. See pages 80 and 81.

Keep combine tires properly inflated. See page 82.

When the season is over store your machine with care. See page 84.

LUBRICATION

The economical and efficient operation of any machine is dependent upon regular and proper lubrication of all moving parts with a quality lubricant. Greasing is just as vital to the service life of farm machinery as is the use of proper lubricating oil in the crankcase of an automobile or tractor. Neglect leads to reduced efficiency, heavy draft, wear, break-down and costly replacement of parts.

Grease is not costly—bearings are expensive!!!

Keep main drive gear case filled with a good grade of gun grease.

Wheel bearings are packed with grease at the factory. They should be repacked at the beginning of each season.

Chains, sprockets and sickle should be oiled except when working in dry sandy conditions.

Oil all connections frequently.

Wipe dirt from fittings before greasing.

Lubricate all parts thoroughly but avoid excessive lubrication. Excessive lubrication will allow excess lubricant to drop onto belts, causing slippage.

A good grade of gun grease should be used.

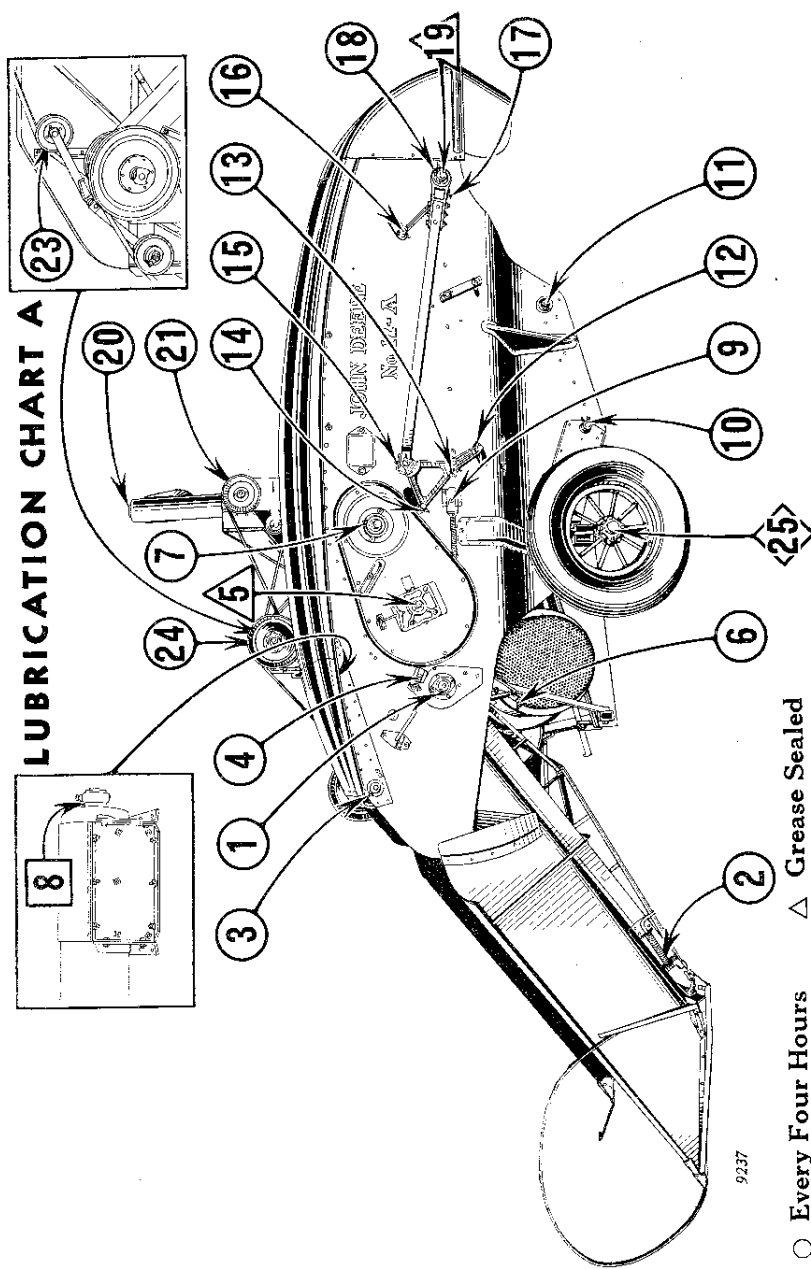
Replace all missing Zerk fittings immediately.

Do not overlook Zerk in right hand end of feeder canvas idler roller or the Zerk in platform canvas drive roller right hand bearing box. Both of these Zerk fittings must be greased through hole in platform canvas drive roller sheave.

LUBRICATION CHARTS

See the following pages for location of all fittings.

Important Note: The "Times Greased" column in the charts that follow applies to machines that have been thoroughly broken in. When the machine is new, lubricate the bearings often during the first few days of use.

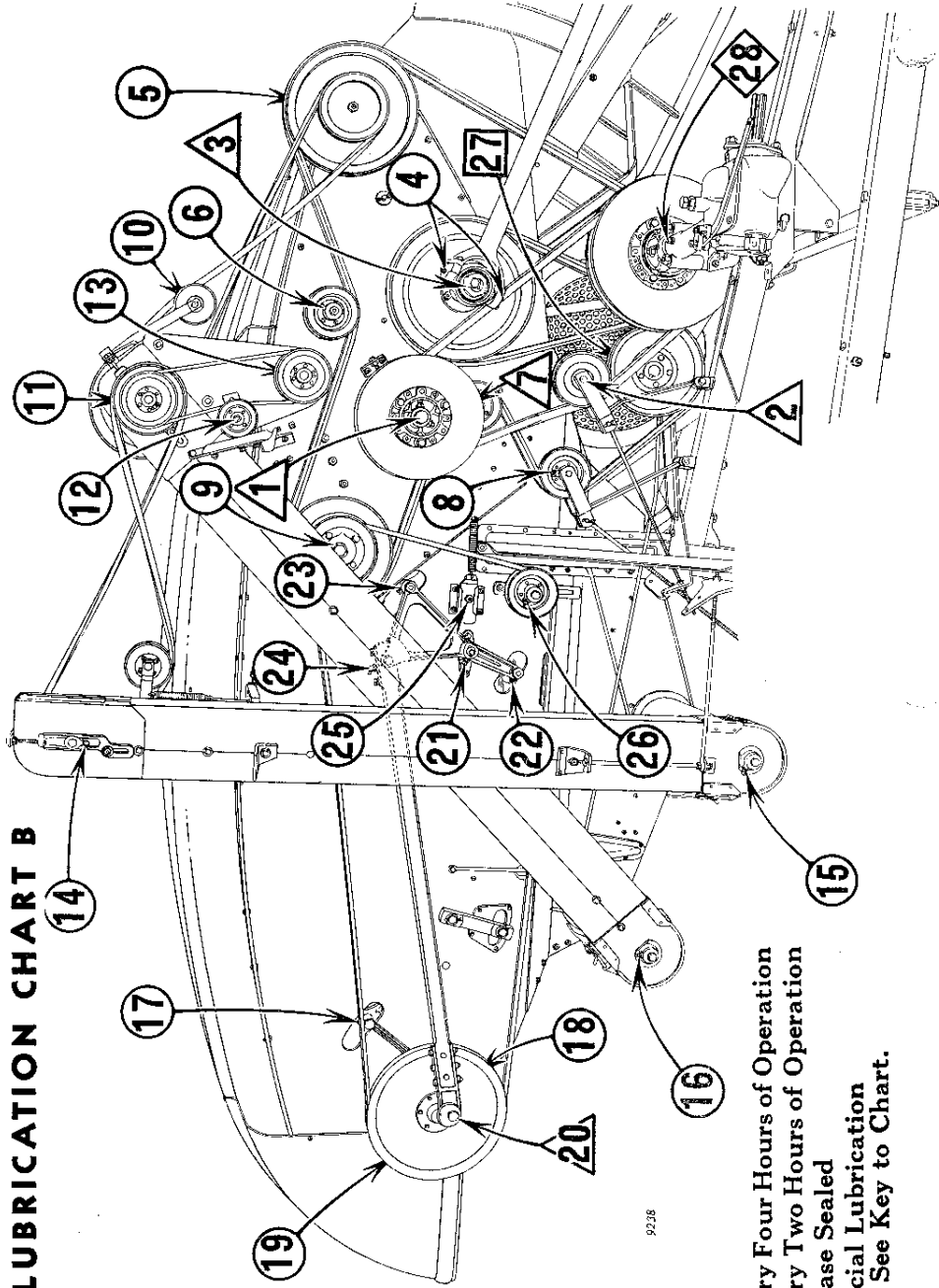


- Every Four Hours of Operation
- Every Two Hours of Operation
- △ Grease Sealed
- Special Lubrication See Key to Chart.

KEY TO LUBRICATION CHART A

Location No.	Description	Times to Be Greased
1	Platform Canvas Drive Roller.....	Every Four Hours of Operation
2	Platform Canvas Idler Roller.....	" " " "
3	Feeder Canvas Drive Roller.....	" " " "
4	Feeder Canvas Idler Roller.....	" " " "
5	Cylinder.....	Grease Sealed
6	Cleaning Fan.....	Every Four Hours of Operation
7	Beater Behind Cylinder.....	" " " "
8	Tailings Distributing Auger.....	" " " "
9	Grain Conveyor Chain Tightener.....	" " " "
10	Clean Grain Auger.....	" " " "
11	Tailings Auger.....	" " " "
12	Shoe Rocker Arm, Front.....	" " " "
13	Straw Rack and Shoe Rocker Shaft.....	" " " "
14	Straw Rack Rocker Arm, Front.....	" " " "
15	Straw Rack Pitman, Front End.....	" " " "
16	Straw Rack Rear Hanger, Upper End.....	" " " "
17	Straw Rack Rear Hanger, Lower End.....	" " " "
18	Grain Conveyor and Straw Rack Drive Shaft.....	" " " "
19	Straw Rack Pitman, Rear End.....	Grease Sealed
20	Grain Tank Unloading Auger.....	Every Four Hours of Operation
21	Clean Grain Elevator (Upper End).....	" " " "
23	Clean Grain Elevator Drive Belt Tightener.....	" " " "
24	Tailings Elevator (Upper End).....	" " " "
25	Main Wheel.....	Once Each Season

LUBRICATION CHART B



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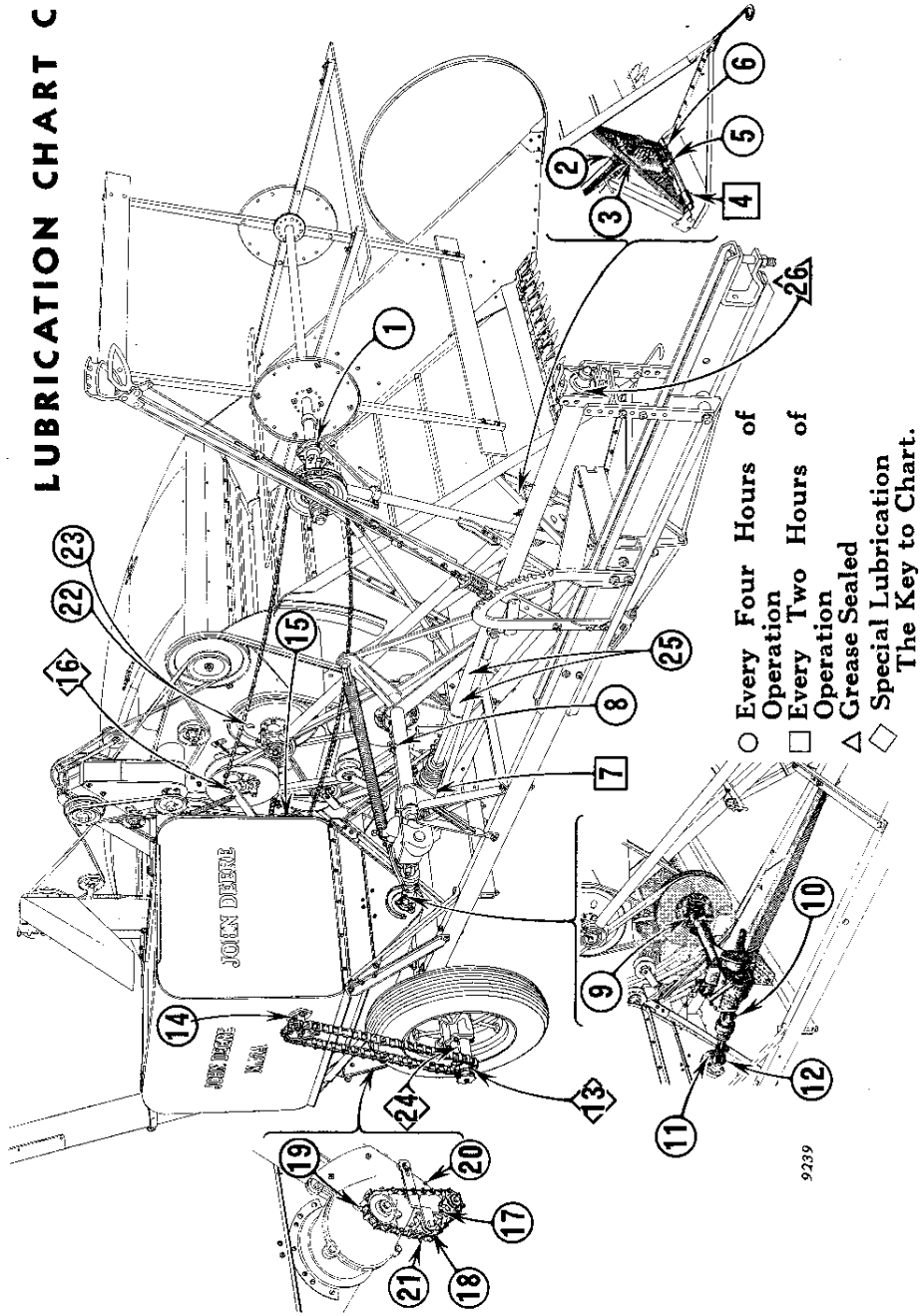
- Every Four Hours of Operation
- Every Two Hours of Operation
- △ Grease Sealed
- ◇ Special Lubrication
See Key to Chart.

KEY TO LUBRICATION CHART B

Location No.	Description	Times to Be Greased
1	Cylinder.....	Grease Sealed
2	Cylinder Drive Belt Tightener.....	Grease Sealed
3	Sickle Pitman Drive Pipe.....	Grease Sealed
4	Sickle Drive Eccentric.....	Every Four Hours of Operation
5	Feeder Canvas Drive Roller.....	" " "
6	Separator Drive Belt Idler, Upper.....	" " "
7	Separator Drive Belt Idler, Lower.....	Grease Sealed
8	Separator Drive Belt Tightener.....	Every Four Hours of Operation
9	Beater Behind Cylinder.....	" " "
10	Tailings Elevator Drive Belt Tightener.....	" " "
11	Tailings Elevator (Upper End).....	" " "
12	Tailings Distributing Auger Drive Belt Tightener.....	" " "
13	Tailings Distributing Auger.....	" " "
14	Clean Grain Elevator (Upper End).....	" " "
15	Clean Grain Auger.....	" " "
16	Tailings Auger.....	" " "
17	Straw Rack Rear Hanger, Upper End.....	" " "
18	Straw Rack Rear Hanger, Lower End.....	" " "
19	Conveyor and Straw Rack Drive Shaft.....	" " "
20	Straw Rack Pitman, Rear End.....	" " "
21	Straw Rack and Shoe Rocker Shaft.....	Grease Sealed
22	Shoe Rocker Arm, Front.....	Every Four Hours of Operation
23	Straw Rack Rocker Arm, Front.....	" " "
24	Straw Rack Pitman, Front End.....	" " "
25	Grain Conveyor Chain Tightener.....	" " "
26	Straw Rack Drive Belt Tightener.....	" " "
27	Cleaning Fan.....	Every Two Hours of Operation
28	Main Gear Housing.....	Check Every 60 Running Hrs.

NOTE:—Keep Main Gear Housing filled with good grade of gun grease.

LUBRICATION CHART C





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KEY TO LUBRICATION CHART C

Location No.	Description	Times to Be Greased
1	Reel Pipe, R. H.	Every Four Hours of Operation
2	Sickle Pitman Drive Pipe (Front End)	" " "
3	Platform Canvas Idler Roller	" " "
4	Knife Head Guide	Every Two Hours of Operation
5	Sickle Drive Ball Socket	Every Four Hours of Operation
6	Pitman Drive Ball Socket	" " "
7	Universia (Before Main Drive Gear Case)	Every Two Hours of Operation
8	Lifting Arm Pivot Pipe	Every Four Hours of Operation
9	Cylinder Drive Shaft in Main Gear Housing	" " "
10	Slip Clutch on Grain Tank Auger Drive Shaft	" " "
11	Rear Drive Knuckle	" " "
12	Grain Tank Horizontal Auger	" " "
13	Reel Jack Shaft Drive Sprocket	Once Each Transporting
14	Reel Jack Shaft Driven Sprocket	Every Four Hours of Operation
15	Reel Drive Sprocket	" " "
16	Reel Drive Chain Tightener	Oil Occasionally
17	Grain Tank Unloading Auger Drive Sprocket	Every Four Hours of Operation
18	Grain Tank Unloading Auger Drive Chain Tightener Sprocket	" " "
19	Grain Tank Unloading Auger Drive Sprocket	" " "
20	Grain Tank Unloading Auger (Lower)	" " "
21	Countershaft under Boot of Grain Tank Unloading Auger	" " "
22	Platform Canvas Drive Roller	" " "
23	Feeder Canvas Idler Roller	" " "
24	Main Wheel	" " "
25	Telescoping Square Shaft in Power Drive Pipe	Once Each Season
26	Power Drive Line	Every Four Hours of Operation Grease Sealed

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