COTTON HARVESTER NO. 15

JOHN DEERE

OPERATORS MANUAL

COTTON HARVESTER
NO. 15

OMC15652 (01JUN52) English

OMC15652 (01JUN52)

LITHO IN THE U.S.A.
ENGLISH

SERIAL NUMBER

Write the Serial Number of your Harvester here .....

You will find the serial number on the rear side of cross conveyor. BE SURE to use this number when ordering parts or writing about your Cotton Harvester.

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

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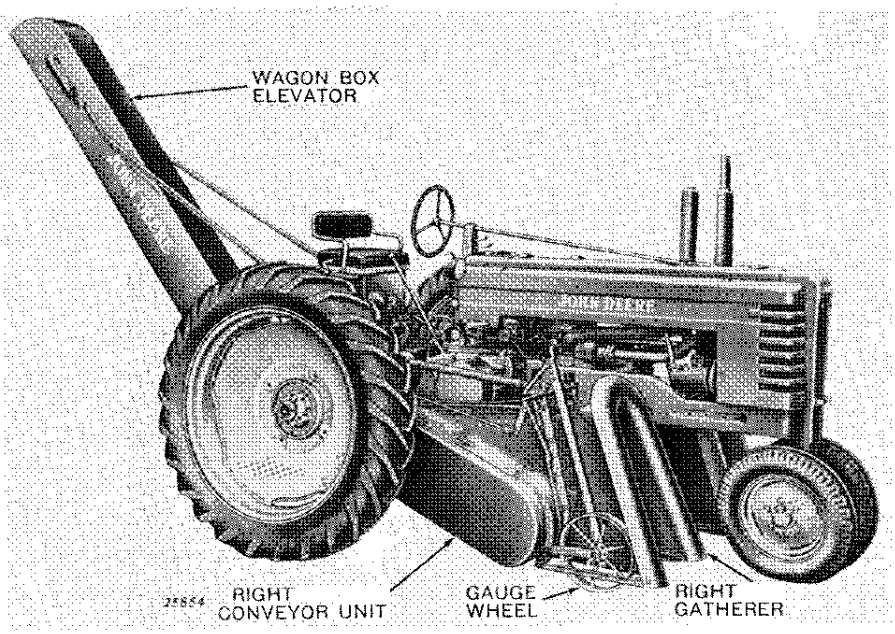
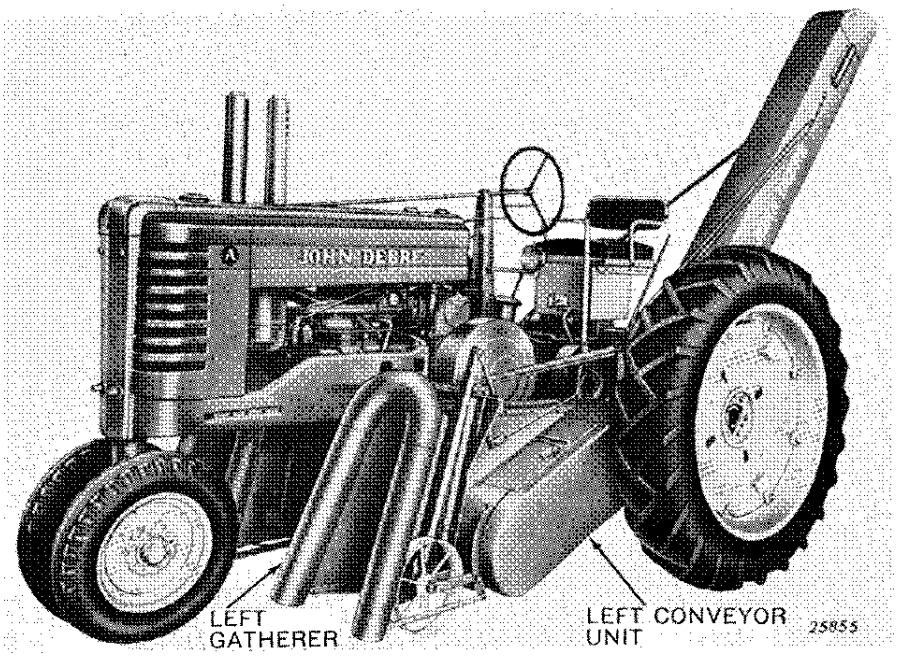
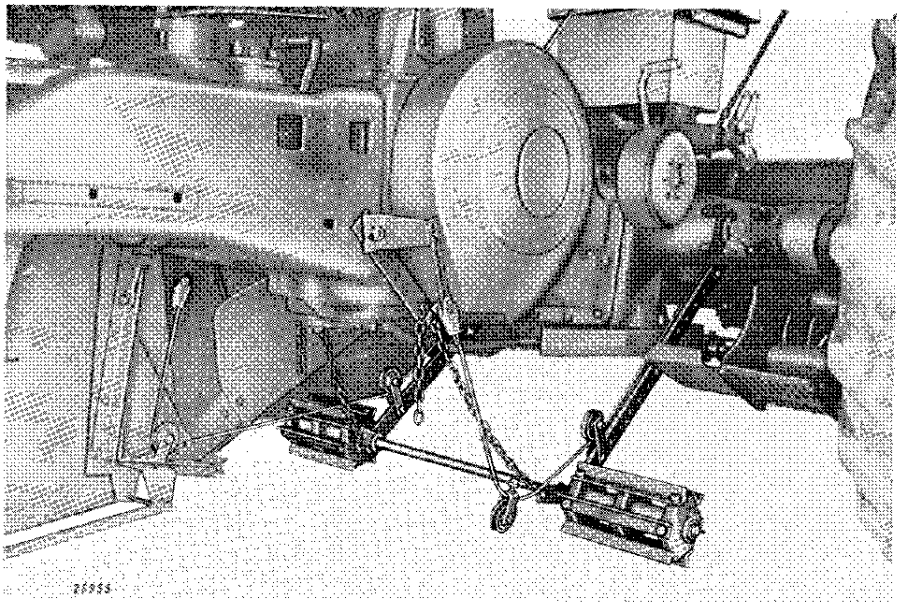
(Detail design is subject to change without notice.)



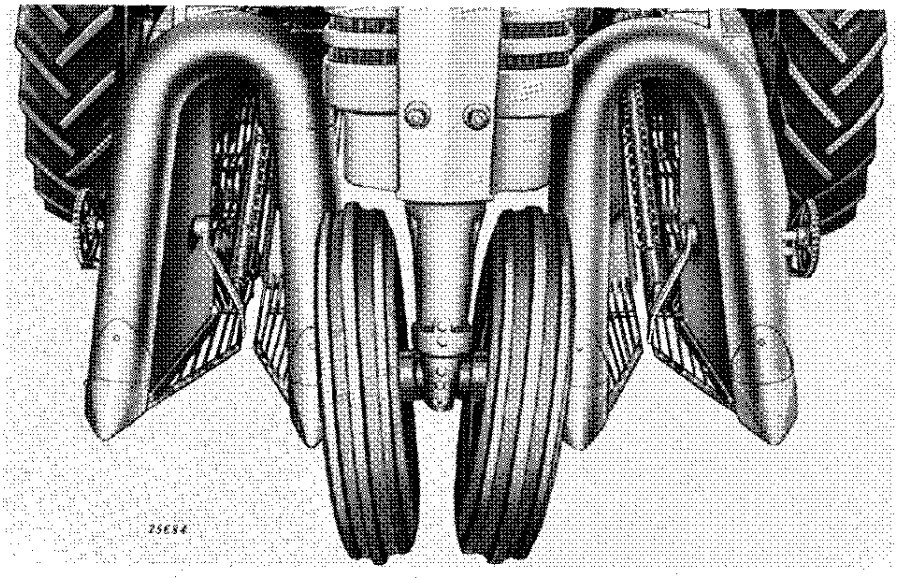
Right Side View of No. 15 Cotton Harvester



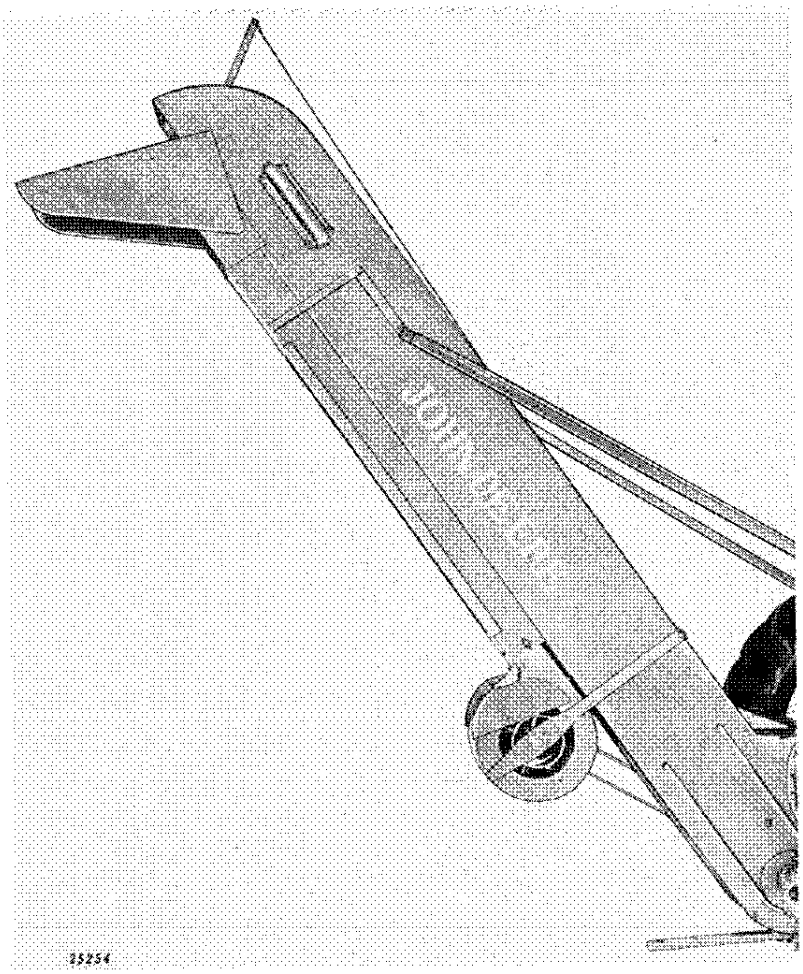
Left Side View of No. 15 Cotton Harvester



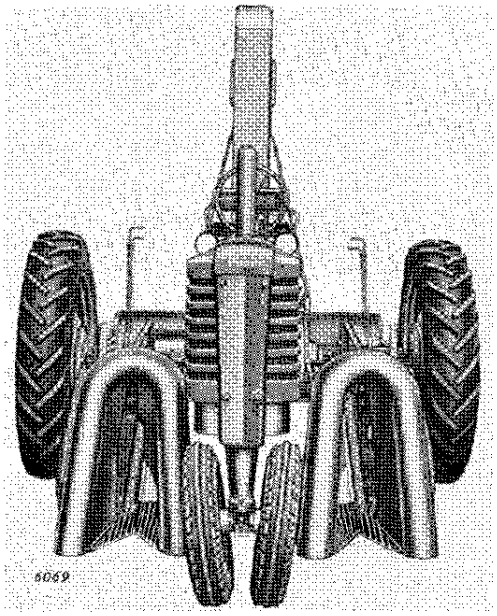
Stalk Roller Attachment



Low Cotton Attachment



Boll Separator Fan Attachment



Front View of No. 15 Cotton Harvester

TIRE INFLATION TABLE FOR JOHN DEERE TRACTORS WITH No. 15 COTTON HARVESTER ATTACHED

Tractor Size	Tire Size	Ply	Rear Wheel Equipment	Inflation Pressure Without Added Wheel Weights	Maximum Permissible Additional Weight per Wheel at Maximum Inflation Pressure as Shown
B-BN	10-38	4	Pressed Steel	14	300 @ 14 lbs.
	10-38	4	Cast	14	0 @ 14 lbs.
BNH	9.00 x 40	4	Spoke	14	150 @ 14 lbs.
A-AN	11-38	6	Pressed Steel	16	750 @ 20 lbs.
	11-38	6	Cast	16	500 @ 20 lbs.
ANH	9.00 x 40	4	Spoke	14	0 @ 14 lbs.
G-GM	12-38	6	Cast	16	650 @ 20 lbs.

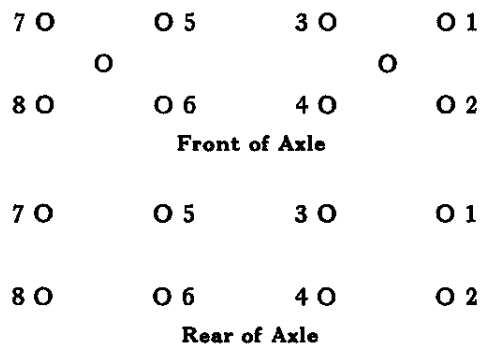
Before attaching No. 15 Cotton Harvester to tractor, remove all cast or liquid ballast in excess of the permissible additional weight in last column of inflation table for tire size used on tractor.

Inflation pressure for all sizes tractor front tires:

4-Ply Tires—28 lbs.
6-Ply Tires—36 lbs.
8-Ply Tires—44 lbs.

TRACTOR ATTACHING PARTS

Tractor	Spline	Spacers for Mounting on Rear Axle
A, AN, ANH 410,000 to 459,999 (J 17368 C)	J 827 H 1-1/8″	4—Y 1554 (13/16″) Front of Axle (Pads 3, 4, 5, 6) 8—X 5571 (5/8″) Rear of Axle (Pads 1 thru 8)
A, AN, ANH 460,000 to 487,999 (J 17369 C)	J 827 H 1-1/8″	None
A, AN, ANH 488,000 and up (J 17370 C)	J 1179 H 1-3/8″	None
B, BN, BNH 1,000 to 42,199 (J 17371 C)	J 827 H 1-1/8″	16—X 5665 (1/2″) Rear of Axle (Two on Pads 1 thru 8) 4—Y 1553 (11/16″) Front of Axle (Pads 3, 4, 5, 6)
B, BN, BNH 42,200 to 149,699 (J 17372 C)	J 827 H 1-1/8″	16—X 3564 (1/8″) Rear of Axle (Two on Pads 1 thru 8)
B, BN, BNH 149,700 and up (J 17373 C)	J 1179 H 1-3/8″	16—X 3564 (1/8″) Rear of Axle (Two on Pads 1 thru 8)
G, GM	7815 C 1-3/4″	8—X 3564 (1/8″) Rear of Axle (One on Pads 1 thru 8)
I.H.C. Model H up to and including Serial FBH-117,999 (J 17369 C)	J 827 H 1-1/8″	None
I.H.C. Models M and H Serial FBH-118,000 and up (J 17370 C)	J 1179 H 1-3/8″	None



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, breakdown and costly replacement of parts.

Grease is not costly—bearings are expensive!

Wipe dirt from fittings before greasing.

Lubricate all parts thoroughly but avoid excessive lubrication. Excessive lubrication will gather dirt and dust.

A good grade of gun grease should be used.

Replace all missing grease fittings immediately.

Location		Number	Style of Bearing
Once Daily	Outer Bearings on Gear Case of Upper Pin Roll	2	Ball
4 Times Daily	Gauge Wheels	2	Plain
	Pin Rolls in Stripper Units	6	Bronze
	Elevator Boot Sides	2	Bronze
	Elevator Head Sides	2	Bronze
	Tightener Sprocket on Elevator Drive Chain	1	Bronze

Main Gear Case and Stripper Unit Gear Cases are filled at factory with No. 90 SAE Transmission oil.

At the beginning of the season, it is well to check the oil in the Stripper Unit Gear Cases. If oil cannot be seen in filler pipe, add enough No. 90 SAE to bring it to this level.

Also check the Main Gear Case inspection plug, and maintain oil level to inspection plug level, using No. 90 SAE.

OPERATION AND ADJUSTMENT

The No. 15 Harvester is a once-over machine and should be used only after frost has killed the plants. It is not designed for use in green cotton.

The Harvester is designed for mounting on either a John Deere Model "A" or "B" Tractor, tricycle type with single or double front wheels. It will, with some slight alterations, fit the John Deere Models "G" and "GM" Tractors and I.H.C. Models M and H Tractors.

OPERATING SPEEDS

In heavy cotton, for efficient harvesting, the tractor should be run in first gear and full throttle. In lighter cotton it may be possible to operate in second or third gear, depending on the cotton and field conditions.

For the average field, a 21-tooth sprocket is furnished for tractor drive, but some picking conditions, especially where yields are heavy, make it necessary to reduce the ground speed of the tractor. In order to permit the reduced speed without affecting the speed of the stripper units, a special 30-tooth sprocket can be supplied for the power take-off drive shaft on tractor. This can be ordered as J17876C. If the 30-tooth sprocket does not give enough speed, the speed of the side conveyors can be increased by using the 24-tooth sprocket on the main drive gear case instead of the 18-tooth sprocket. This can be ordered as J18008C.

GATHERERS

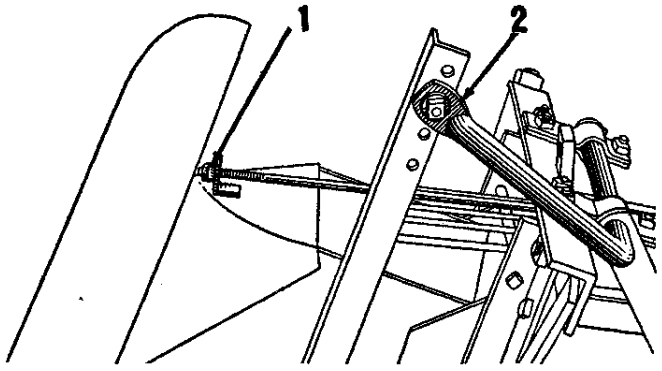


Figure 1

By adjusting the nuts at 1, Figure 1, the nose of the gatherer unit may be turned up or down, according to ground conditions.

Adjustment of grate opening is made by moving pivot rod in or out and fastening with cotter pins as at 1, Figure 2.

The grates should be set at the narrowest adjustment that field conditions will permit.

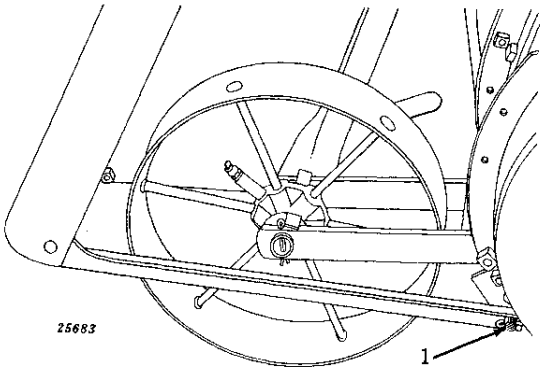


Figure 2

GAUGE WHEELS

Ground conditions will determine the proper setting of gauge wheels. These adjustments can be made by adjusting the pivot arm at 2, Figure 1.

STRIPPER UNITS

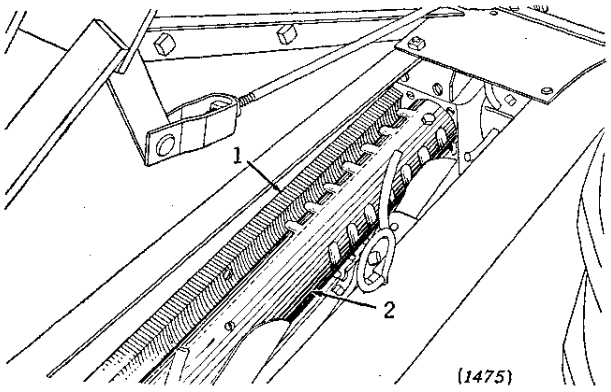


Figure 3

The stripper units can be equipped with rolls for storm-proof or open varieties of cotton. Figures 3 and 4 show the storm-proof type of rolls.

The change from one type of roll to the other can be made by simply unbolting the stripper roll sections and the notched filler from side sheet, then replacing with the type desired.

The widest space between stripper bar and stripper roll that can be used, with clean stripping of cotton, is preferable.

The stripper bar 1, Figure 3, is adjustable to and from the roll 2 at both front and rear ends.

The front end adjustment is made by running nuts 1, up on bolt 2, Figure 4, which closes the opening. To widen the opening, run nuts down on bolt.

The rear end adjustment is made by the nuts 1, Figure 5. When the nuts are run out on the two bolts shown, the space is opened. To narrow the spacing, run nuts down on the bolts. **Be sure** nuts on both bolts are adjusted alike. **Keep nuts tight.**

Check adjusting strap for lift cable. With gauge wheel raised, stripper unit should just lightly rest on ground. In raised position, each unit should be even with the other. Adjusting straps 2, Figure 12, can be adjusted up or down for correct height.

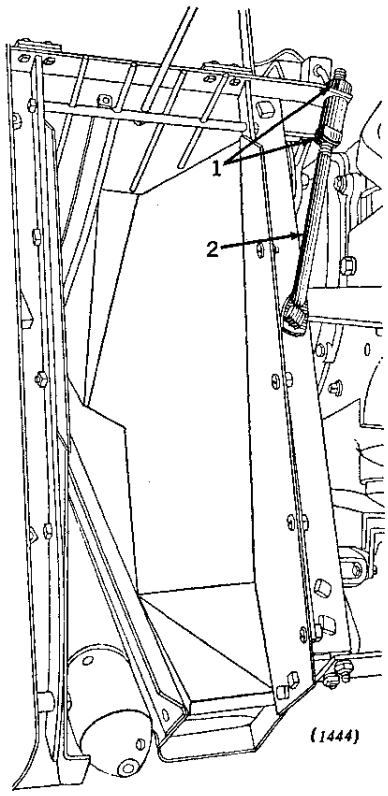


Figure 4

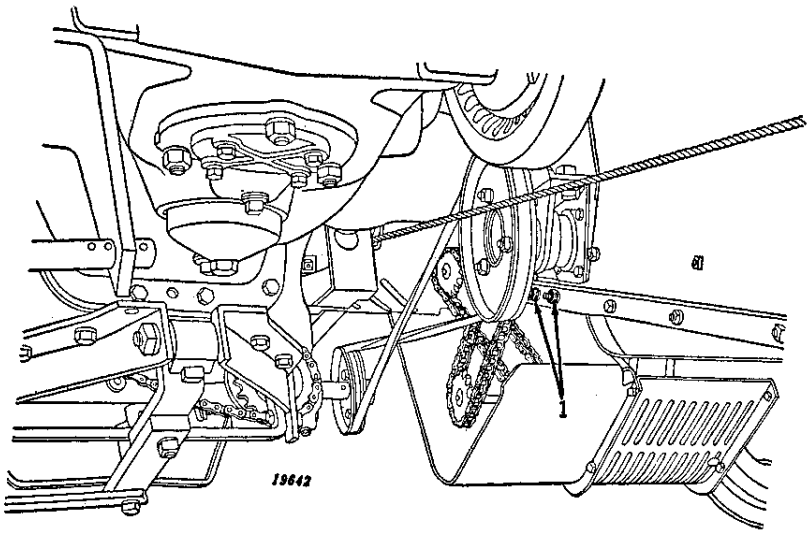


Figure 5

ELEVATOR

The conveyor belt in the elevator is provided with a 4-inch take-up section. When the belt stretches beyond normal take-up of the adjustment bolts at the head of elevator, this take-up section can be removed.

If it is necessary to replace any flights, they can be attached to the conveyor belt with brake band rivets.

The elevator is provided with a clean-out door on underside of boot, 1, Figure 6.

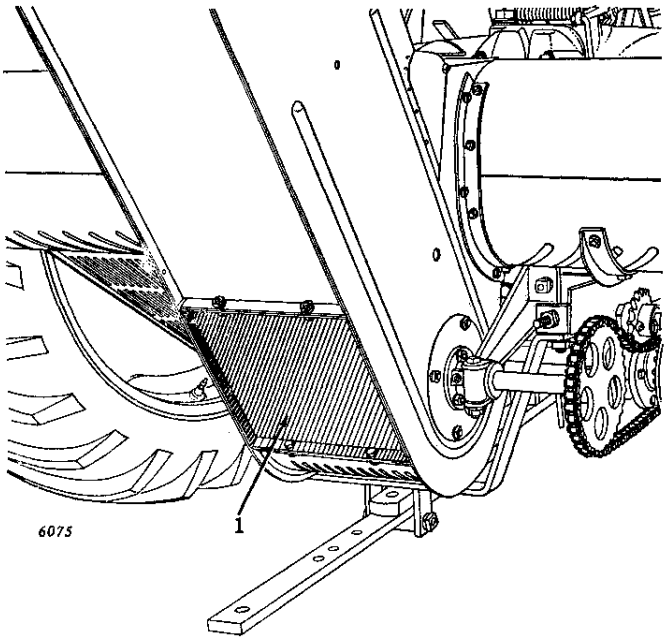


Figure 6

NOTE: *When Cotton Harvester is removed from the tractor, BE SURE TO REINSTALL power-shaft shield to the tractor.*

BOLL SEPARATOR ATTACHMENT

When using the Boll Separator Attachment for green boll separation adjust hinged deflector to low position thereby directing green bolls to the front of wagon. When separation of bolls from cotton is not necessary adjust to highest position.

The hinged deflector is held in position by thumb nuts in sides of elevator head.

Deflector hood can be adjusted to blow cotton to any part of wagon by means of rod and chain adjustment.

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