

POWER-DRIVEN WINDROWERS 12 AND 16 FOOT



JOHN DEERE

OPERATORS MANUAL POWER-DRIVEN WINDROWERS 12 AND 16 FOOT

OMH25356 (01MAR56) English

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TO THE PURCHASER

The way you operate your John Deere Windrower and the care you give it has much to do with the service and satisfaction you will get from it. This Manual has been carefully prepared and illustrated to show you what to do and when to do it. Your John Deere dealer will be glad to explain the adjustments that are built into your machine and render you prompt service if needed.

John Deere dealers have trained mechanics, fully informed on the best John Deere service methods and will serve you promptly.

Parts and Assembly Reference: Right-hand and left-hand sides are determined by facing in the direction the machine 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.

Date of Purchase.....

Be Careful

THE LIFE YOU SAVE MAY BE YOUR OWN...

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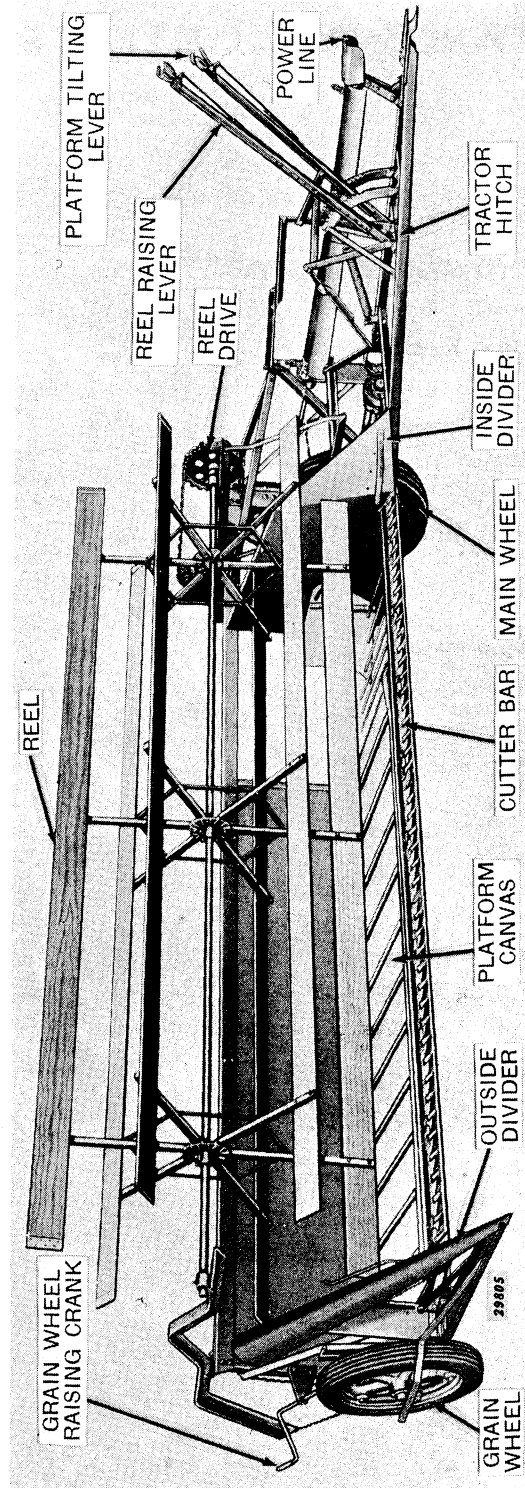
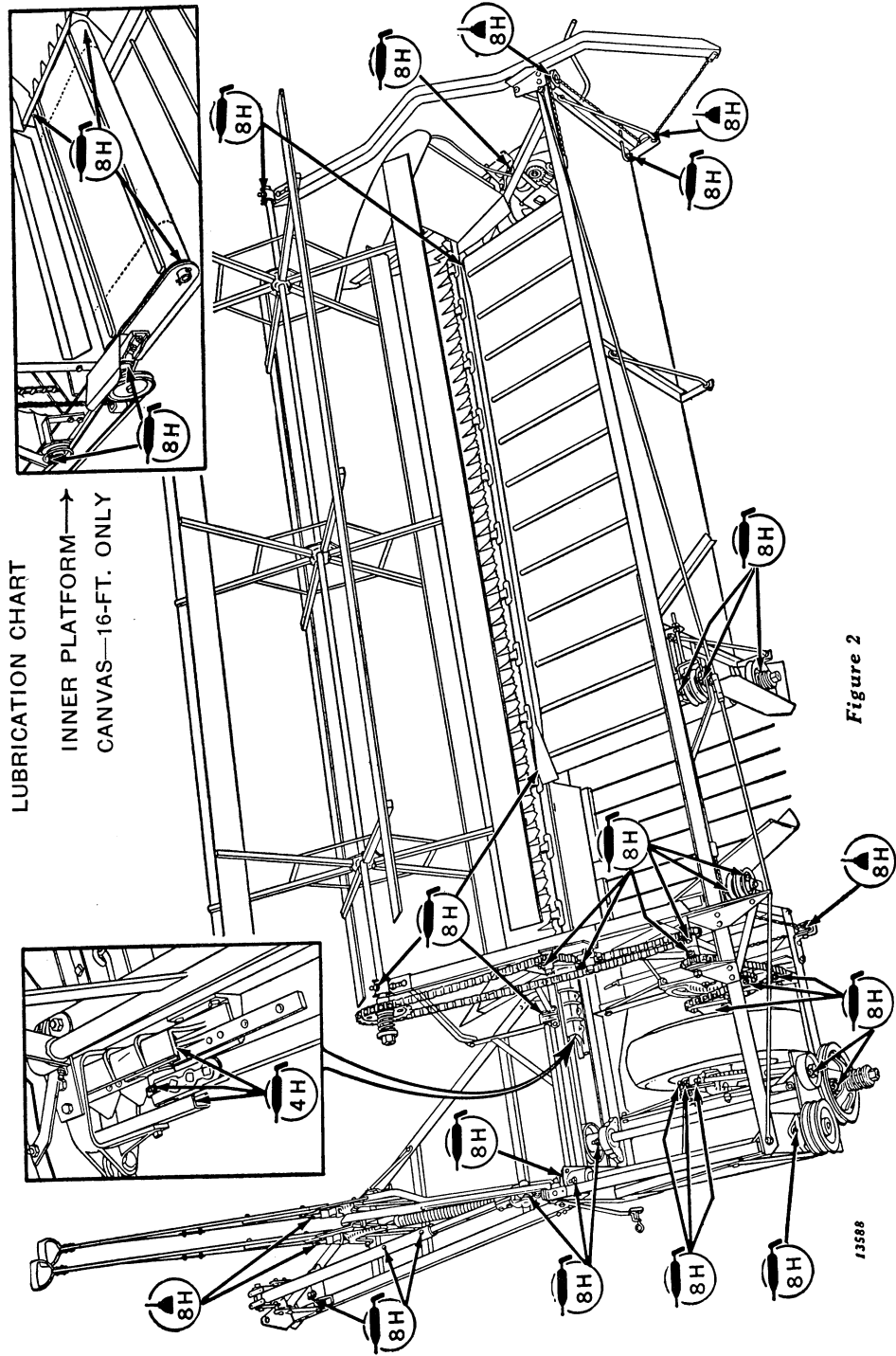


Figure 1—Complete View of John Deere Power-Driven Windrower

SPECIFICATIONS AND DATA

Width of Cut.....	12- and 16-Ft.	Platform and Main Frame	
Right- or Left-Hand Cut..	Right-Hand	Height Adjustable.....	Yes, Cranks on Wheels
Ground or Power Driven..	Power	Windrow Opening Width..	12-Ft., 34-3/8"; 16-Ft., 52-1/4"
Drive, Sickle.....	V-Belt	Windrow Layer, Type.....	Steel Fingers
Drive, Platform Canvas...	V-Belt	Windrow Opening Adjustable.....	Yes, Moldboard Shield
Reel, Ground, or Power Driven.....	Ground	Grain Wheel in Line with Main Wheel.....	Yes
Reel, Diameter.....	55 Inches	Wheel, Main, Tire Size....	12-Ft. 7.50x16, 16-Ft. 7.50x16
Reel, Number of Slats....	6	Wheel, Grain, Tire Size....	12-Ft. 4.00x18, 16-Ft. 5.00x21
Reel, Raised or Lowered from Tractor Seat.....	Yes	Wheel, Main, Bearings....	Two Straight Roller
Reel Adjustment, Range, Up and Down.....	2 Inches to 20 Inches	Wheel, Grain, Bearings....	Two Tapered Roller
Reel Adjustable, Fore-and-Aft.....	Yes	Sickle Speed.....	325 rpm.
Platform Canvas, Width...	39 Inches	Length, Over-All.....	8-Ft. 3-In.
Platform Tilt Adjustable from Tractor Seat.....	Yes	Width, Over-All.....	12-Ft. 16-Ft. 2-In. 16-Ft. 23-Ft. 7-In.
Platform Tilt Adjustment Range.....	3 Inches to 26 Inches	Height, Over-All.....	7-Ft. 8-In.
		Shipping Weight.....	12-Ft. 1,827 Lbs. 16-Ft. 2,317 Lbs.



LUBRICATION

Proper lubrication is the most important factor contributing to the long life of any machine.

Make sure all grease fittings are wiped clean and missing fittings replaced.

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

Sickle Lubrication.

If grain is cut high and cutter bar is carried some distance from the ground, liberal lubrication with heavy machine oil at frequent intervals is advised. If cutter bar is operated close to the ground, it is better to use no oil except for a small amount at the sickle holders or clips, especially in sandy conditions.

SYMBOLS FOR LUBRICATION CHART



Grease every 4 hours of operation.



Grease every 8 hours of operation.



Oil every 8 hours of operation.

OPERATION AND ADJUSTMENT

Successful operation means saving grain, quality and quantity of work. Long life of your Windrower depends upon thorough lubrication, proper adjustment of belts, chains, and slip clutches and use of adjustments to meet varying crop conditions.

Grain is ready to windrow at the same time it is ordinarily ready to cut with a binder. To make the best windrow in all conditions cut a full, straight swath. Inside divider should not run into the standing grain.

Grain should be cut with $\frac{1}{3}$ the total height left standing. This will provide a proper bed for the cut grain and will allow it to cure properly. Grain should not be lost in the stubble by cutting too short or laid on the ground making it difficult to pick up and save all the crop.

Cut a swath within the capacity of your combine. If a 12-foot or 16-foot swath will overload your combine, a narrower swath must be cut. Overloading means wasted grain, high fuel consumption, and repair bills. Be sure grain is cured and ready to pick up. Don't guess—test the moisture content.

Adjust the reel and tilt platform for proper cutting range and varied crop conditions. Also adjust grain deflector shield at inner end of platform.

The platform inside delivery assists in efficient work, easy operation, and turning room at corners without running over windrow.

Always lay a good windrow to assist in picking up and to assure proper drying. If grain is heavy, a wide windrow should be laid. If light, a narrow windrow is better. A loose, wide windrow is always better than a narrow, compact one.

Windrow width on 12-foot windrower is governed by the deflector shield at inner end of platform (see "2," Figure 31). For narrow windrow, move shield toward platform or away from platform for wide windrow.

Speed of Tractor. Under most conditions, 3-1/2 to 4 miles per hour will not cause undue wear on the windrow. **Avoid excessive speeds.** Steady speed accomplishes more.

Square corners can be turned either to the right or left, but, when turning left, run tractor in low gear, as platform travels further, faster and damage may be caused by striking an unnoticed obstacle.

CUTTER BAR

The cutter bar sections and guard plates must be kept sharp and have a shear contact. In crops such as flax, it is often necessary to service the cutter bar as frequently as is required on mowers.

Smooth rather than serrated sections are sometimes advisable when cutting flax and similar crops. They must also be kept sharp.

Sickle should rest on surfaces of guard plates the full length of cutter bar. If not, remove sickle and pound guards up or down to align. Sickle holders must be set to hold point of sections lightly down on guard plates but must not bind sickle.

Do not bend a sickle holder down with sickle under holder. Set sickle holders after guards are aligned and guard bolts tight. To set holders, start at outer end of bar, pull sickle from under holder and tap down or pry up as necessary, trying sickle and, if holder is properly set, proceed with each holder to inner end of bar. Keep trying sickle, making sure holder keeps points of sections on guard ledger plates.

Worn or broken sections and guard plates should be replaced promptly.

PLATFORM

Level the platform with wheel adjusting cranks, parallel with the ground. To cut extremely low, lower platform to lowest position with wheel-adjusting cranks. Cutter bar will then be 3 inches above the ground and will eliminate extreme tilting of platform.

REEL

The reel is adjustable forward or backward by a series of holes in reel support angles. Raise and lower reel with R.H. lever on hitch, always keep reel parallel with cutter bar (see "16," Figure 29).

REEL—Continued

Reel should be set low and forward in lodged grain. Set reel in relation to height of grain to insure proper delivery on platform (see "5," Figure 26).

One side of spider takes 8 arms (see Figures 29 and 30—6 slats shown). In tall grain, 6 slats on reel does good work—8 slats in light, short grain. Holes in reel arms accommodate 2 sets of slats. This is necessary only in nodding or leaning grain.

Reel speed can be reduced 25 per cent by replacing P2643H, 19-tooth driven sprocket on reel pipe with PK972H, 24-tooth. Unusual conditions make this necessary.

SLIP CLUTCHES

Slip clutches reduce breakage. Should they slip, stop immediately and

locate the cause. Clutch springs should have enough tension for normal work. When setting up, slip the clutches a few times to loosen the paint. **IMPORTANT: Set slip clutches, loosely at first, and tighten gradually until proper working tension is determined.** Clean clutches once each season, more often if they do not slip easily.



Figure 3

To adjust, remove cotter in nut and screw in or out to tighten or loosen. Replace cotter. Do not tighten nut more

than one-half turn without testing adjustment.

Slip clutches are provided on these drives: sickle and main drive shaft; reel and platform canvas drive.

CANVAS

Adjust canvas with tightener bolts at outer end of platform tight enough to prevent slipping when operating. Flap on canvas must cover opening when operating. Buckle straps evenly. Release tension on canvas when idle. Loosen, cover, or remove canvas in damp weather.

REMOVAL OF PITMAN AND SICKLE

Remove bearing box on L.H. end of pitman by removing 3 bolts (see "7," Figure 24.) Slide pitman from sickle head stud (see "6," Figure 24). Remove bracket for sickle head guides from front sill and slide sickle out of guards under flywheel and L.H. hitch bracket.

SICKLE HEAD ADJUSTMENT

Sickle head guides should be adjusted to eliminate binding or play that develops at sickle head. Sickle should have free action and sickle head should slide freely in guides to eliminate unnecessary wear and vibration.

When setting up your windrower, try sickle in cutter bar and adjust till sickle slides freely. After aligning cutter bar make sure that guide support bracket (see Figure 4) is in line with ledger plates of cutter bar. Raise or lower guide support bracket as required to make this alignment. Holes in bracket are slotted for this adjustment.

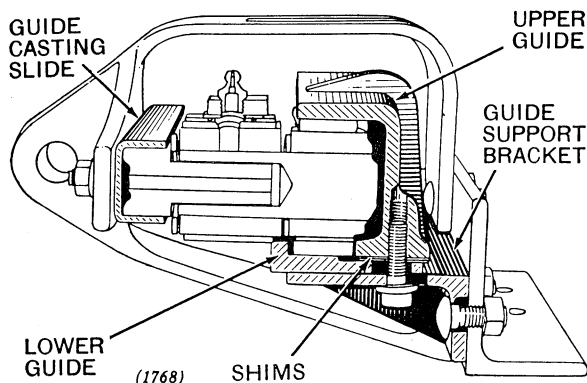


Figure 4

Adjust upper and lower guides **in or out** on guide support bracket allowing sickle back to slide freely.

If sickle still binds at upper guide, guide can be raised by adding more shims between upper and lower guides as shown. If, because of wear, vertical play

develops at sickle head between guides, shims can be removed. When installing a new sickle head, shims should be replaced. After all other adjustments have been made, raise or lower sickle guide casting slide in slotted holes provided in hitch bracket.

NUMBER OF ACRES PER HOUR

Miles per Hour	1	1-1/2	1-3/4	2	2-1/4	2-1/3	2-1/2	2-3/4	3
No. Acres with 12-Ft. Cut..	1.452	2.172	2.532	2.904	3.264	3.384	3.624	3.984	4.356
No. Acres with 16-Ft. Cut..	1.936	2.896	3.376	3.872	4.352	4.512	4.832	5.312	5.808

CONTROL LEVERS

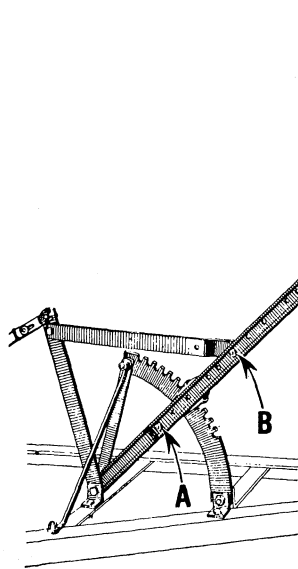


Figure 5

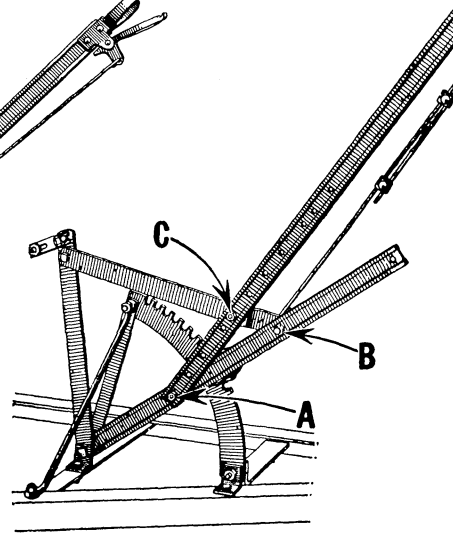


Figure 6

If levers extend too far forward after windrower has been hooked to tractor, adjust in the following manner. Loosen bolt "A" and remove bolts "B" and "C," Figure 5. Swing upper half of lever back and bolt to cross strap at "C," Figure 6. Replace bolt "B" in lower part of lever and tighten bolt "A," Figure 6. Height of levers can be adjusted by series of holes in lever.

CARE OF PNEUMATIC TIRES

Tires have the correct inflation pressures when leaving factory.

Main Wheel, 12- and 16-Foot	7:50x16—6-ply rating—24 Lbs.
Grain Wheel, 12-Foot	4:00x18—4-ply rating—36 Lbs.
Grain Wheel, 16-Foot	5:00x21—4-ply rating—32 Lbs.
Transport Wheels, 12- and 16-Foot	4:00x12—4-ply rating—36 Lbs.

Keep tires properly inflated to insure proper traction, and to prevent serious damage to tires. Lack of pressure causes tires to slip on rims, side walls to buckle, broken fabrics, and uneven tread wear. Keep caps finger-tight on valves to prevent air leaks and to keep gravel, mud, or any foreign material from accumulating in the valve core causing air to escape.

When season is over store the windrower inside. Jack up windrower to take load off tires. **Do not remove air from tubes.**

TRANSPORTING

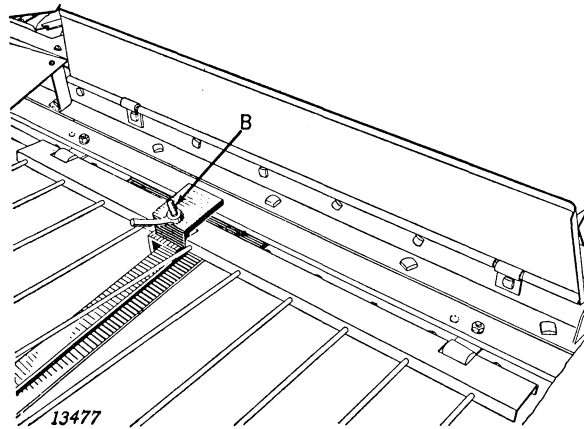


Figure 7

1. Raise platform to highest position on main wheel and grain wheel.
2. Raise cutter bar to highest position with tilting lever.
3. Raise windrower deflector shield to highest position and secure clip on platform windshield, inner.
4. (Figure 8) Roll transport truck under platform from the front side. Lower platform onto transport truck and secure platform to truck with lock pin, "A," Figure 8, and clamp bolt "B," Figures 7 and 8. Disconnect windrower from tractor. *NOTE: 16-foot Windrower Only.* When disconnecting be sure to leave hitch plate "A" (Figure 9) connected to side draft equalizer and to windrower hitch.

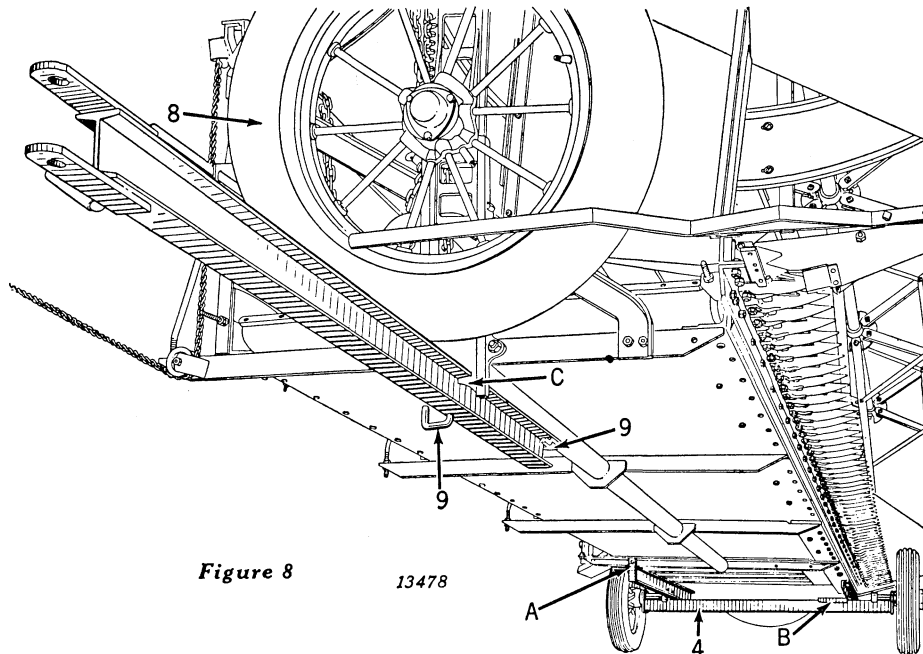


Figure 8

TRANSPORTING—Continued

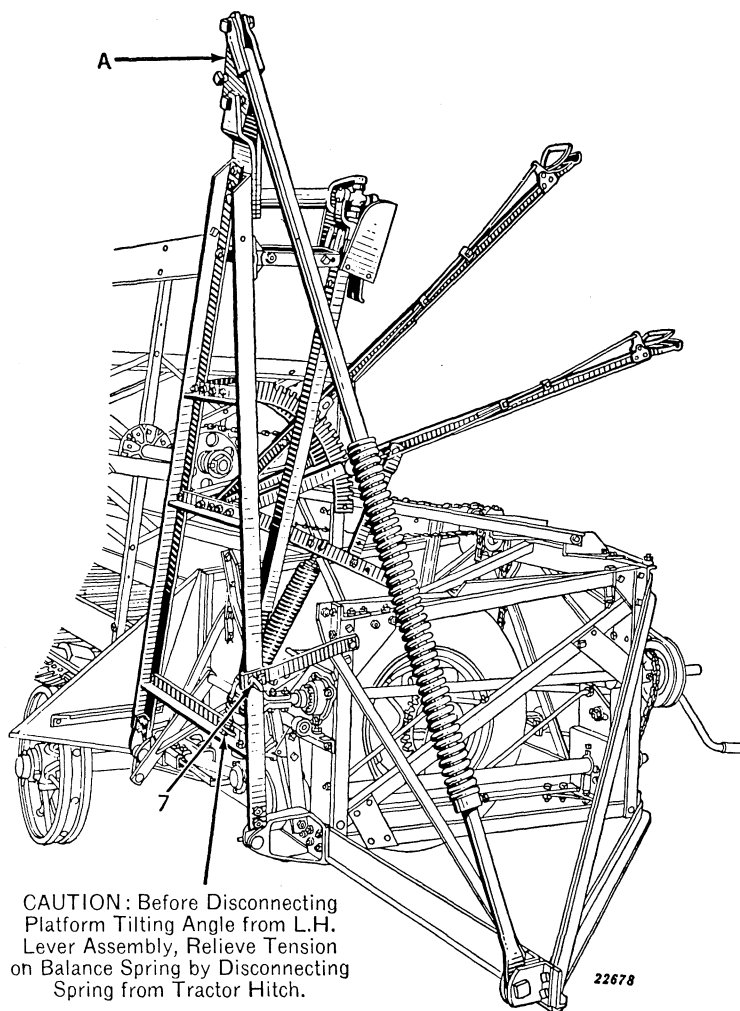
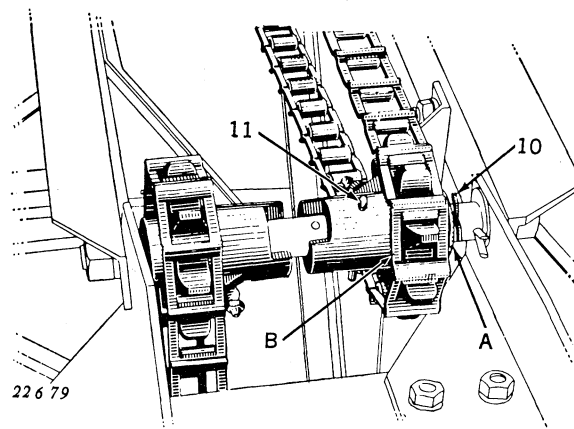
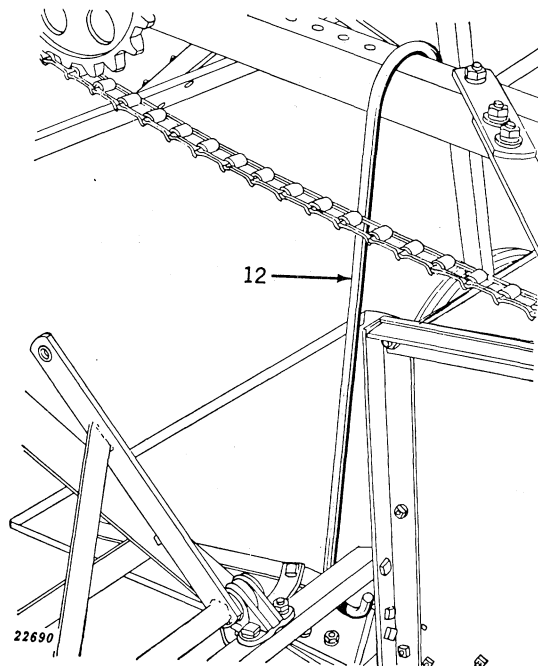


Figure 9

5. Raise main wheel to highest position.
6. **CAUTION:** Before disconnecting platform tilting angle from L.H. lever assembly, relieve tension on balance spring by disconnecting spring from tractor hitch. To disconnect spring from tractor hitch (see "6," Figure 26), relieve spring tension first by raising lever to highest position on sector. After spring tension has been relieved, disconnect front end of platform tilting angle from L.H. lever assembly (see "3," Figure 26). With reel in lowest position, disconnect upper end of reel raising connecting angle from front of reel inner support angle (see "C," Figure 26). Disconnect front end of reel raising angle from R.H. lever assembly (see "4," Figure 26). Remove telescoping shield over power drive shaft (see "2," Figure 27).

TRANSPORTING—Continued

7. (Figure 9) Raise tractor hitch into position shown and secure with support arm.
8. (Figure 8) Raise grain wheel to highest position.
9. (Figure 8) Raise outer end of platform. Insert stub transport tongue into bracket, "C," Figure 8, on lower end of grain wheel sector. Insert pin at rear end of stub transport tongue into hole in platform cross angle. Secure to platform outer cross angle with lock pin.

**Figure 10****Figure 11**

10. Remove cotter and slide flat washer, "A," to R. H. position. Replace cotter in new position as shown.

11. Remove cotter from hub of reel drive sprocket, "B," and slide sprocket to transporting position against flat washer, "A," and replace cotter as shown.

12. Hook one end of reel hook, P23232H, around left-hand reel support arm and other end around reel raising crank support. Hook prevents reel from bouncing up and down when transporting.

WINDROW SHIELD

(For Back Swathing)

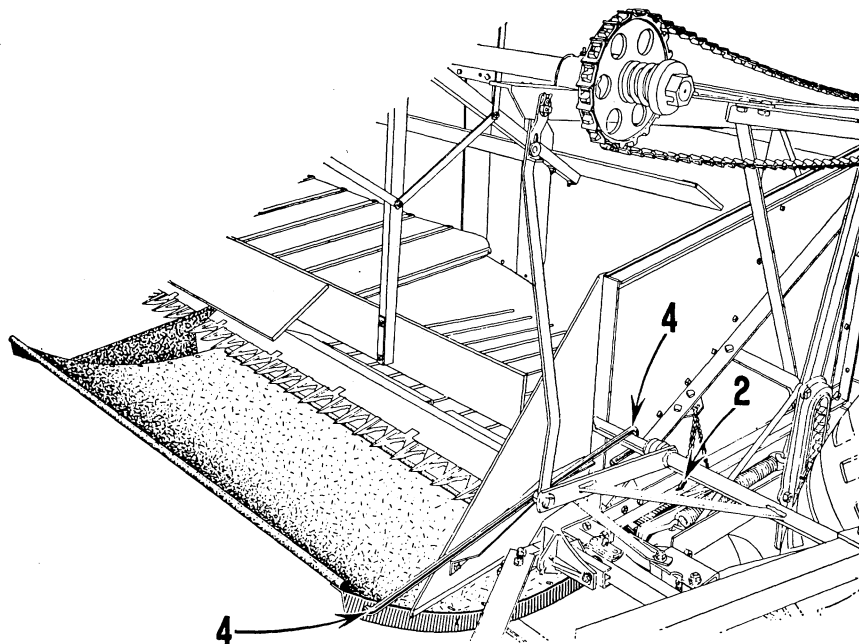


Figure 12

Fields can be opened with little waste by first cutting the back swath—that is, the outside grain next to the fence. On the following round the machine is driven in the opposite direction so as to straddle the first windrow and deposit the second cut on top of the first. When making the second cut, the machine must be equipped with a windrow shield which permits cutting over the first windrow without bunching the grain ahead of the cutter bar. This deflector is removed after completing the second round.

Directions for Attaching.

1. Raise platform to high position.
2. Slide windrow shield under platform and secure hook pin at rear end of L. H. angle in hole in inner windshield lower frame angle.
3. Spring shield to the left and insert pins at rear end of R. H. angle into two holes in platform inner cross angle.
4. Hook hanger rod over reel raising arm support angle and shield at front.

HOOKING UP TO TRACTOR

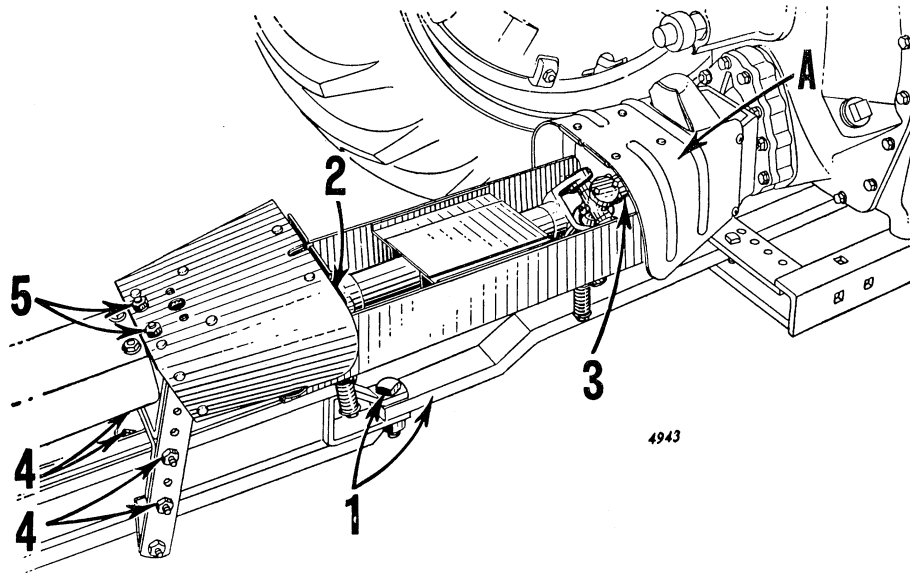


Figure 13

1. Be sure tractor drawbar is rigidly secured in a position directly below power line. Connect windrower to tractor. **16-foot Windrower only:** Line up last two holes in tractor drawbar with holes "D," Figure 26, in side draft compensator plate "A," Figure 26. Bolt drawbar to plate.

2. Remove key, cap screw, lugged lock washer, and notched washer from telescoping pipe. Key universal joint to telescoping pipe and replace cap screw and washers. Lugs on front washer lock cap screw and rear washer.

3. Clamp splined universal joint onto tractor take-off shaft.

4. Adjust the height of power shaft front bearing.

5. Bolt power shaft shield to rear set of holes in bearing housing.

6. Attach connecting shield.

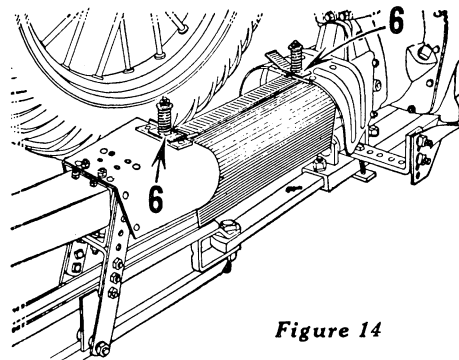


Figure 14

EXTENSION LOOP DIVIDER

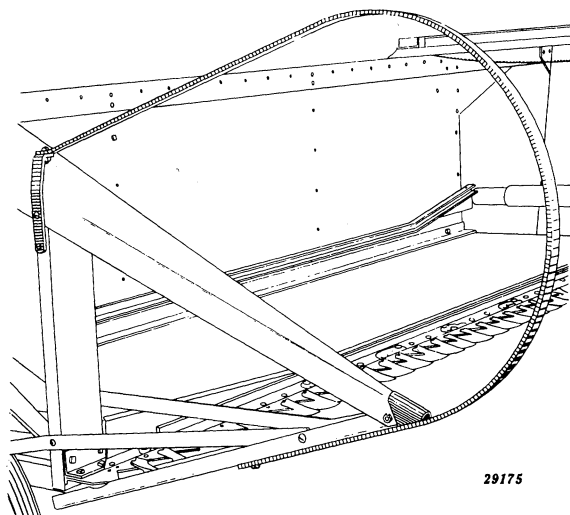


Figure 15

A loop divider should be used when windrowing badly tangled grain. The divider will penetrate the tangled crop so a clean swath can be cut. It will also prevent grain from hanging on outside divider and winding on reel. Order from your John Deere dealer as shipping package 14882HH.

14954HH—REEL END SHIELDS

15083HH HARDWARE FOR REEL END SHIELDS

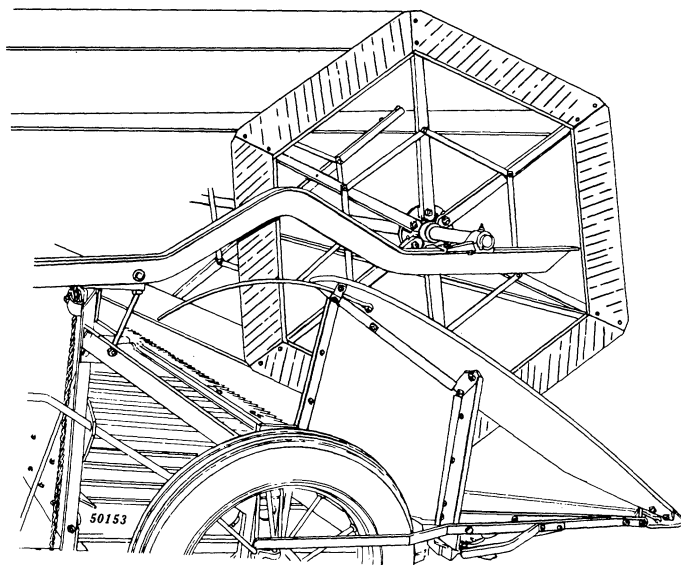


Figure 16

POWR-TROL ADAPTING PARTS

Your windrower can be equipped for hydraulic operation with John Deere Powr-Trol or the hydraulic system of any tractor utilizing a remote cylinder that complies with A.S.A.E. and S.A.E. standards. The platform can then be tilted by a mere touch of the hydraulic control lever.

SHIPPING PACKAGE

14303HH Powr-Trol Adapting Parts for 12- and 16-Foot Power-Driven Windrowers.

OPERATION

Special adapting parts accommodate the remote cylinder of the tractor hydraulic system. In cases where the remote cylinder is of the two-way acting type, (power is applied on both the extending and retracting stroke as is the case with John Deere Powr-Trol) the remote cylinder may be used to raise the front end of the tractor hitch so that tractor can be backed up and hitch pin dropped in place without any manual lifting of the hitch. This cannot be done with the single acting remote cylinder where power is applied only on the extending stroke.

For operating instructions covering John Deere Powr-Trol, refer to your Tractor Operator's Manual under the heading "Attaching Remote Cylinder to Powr-Trol," or see OM-R380, Operation of Powr-Trol.

STORAGE POSITION

If necessary to move the windrower while equipped for Powr-Trol, using a tractor not equipped with a remote cylinder, the following steps should be taken:

1. Place a 6- or 8-inch block under tractor hitch bracket as shown at "A," Figures 17 and 18.
2. Disconnect power line shield at the rear and telescope it forward to clear platform tilting strap when placing windrower in storage position.
3. Detach front end platform tilting strap and bolt securely to pivot angles at "C," Figure 17; windrower can then be hooked to tractor and moved.

SETTING-UP POWR-TROL ADAPTING PARTS

Remove the following parts from windrower: hand platform tilting lever assembly, quadrant, L-brackets, lifting spring, and anchor clip for lifting spring.

Place a 6- or 8-inch block under tractor hitch hinge bracket as shown at "A," Figures 17 and 18.

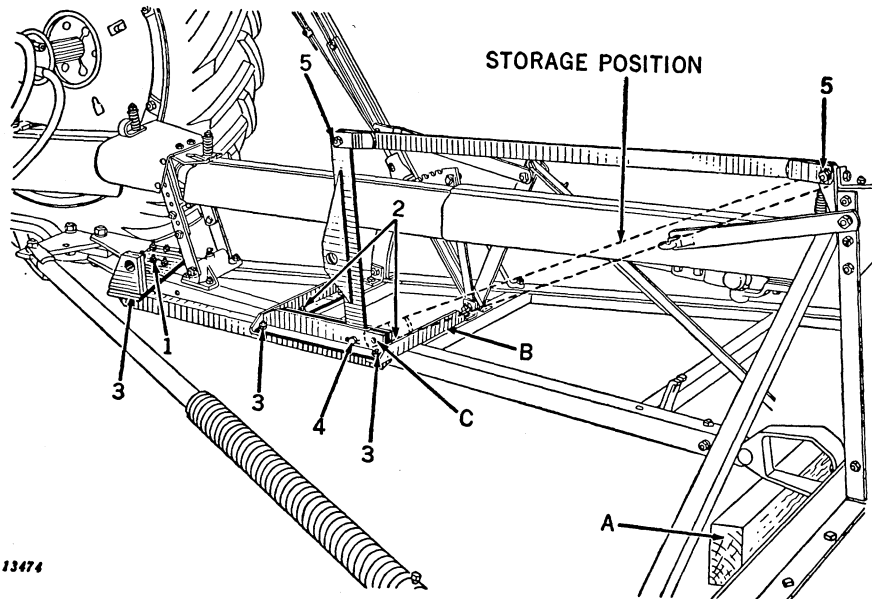


Figure 17

1. Bolt front support to top of tractor hitch angles.
2. Bolt the two cross angles to tractor hitch. Be sure flat spacer "B," is between rear cross angle and tractor hitch angle.
3. Bolt truss angle to front support and to cross support angles.
4. Bolt the two pivot angles to cross angles and attach tilting arm to pivot angles with pivot pin and cotter.
5. Bolt platform tilting strap to windrower and tilting arm with trunion on bolts.

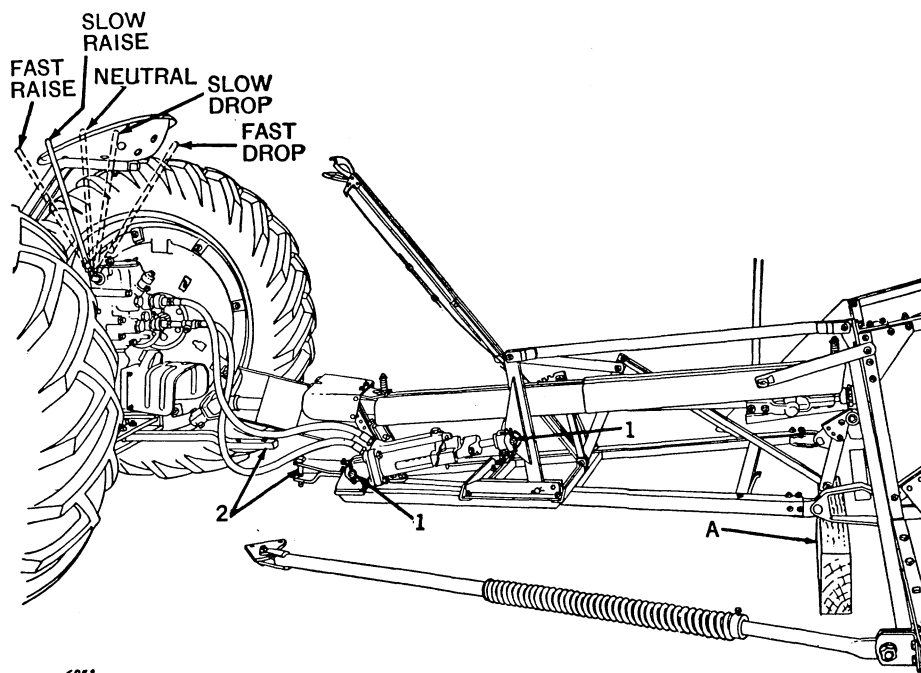
HOOKING UP TO TRACTOR

John Deere Powr-Trol Only:

Safety Precaution: Before attaching remote cylinder, shut off tractor engine and move Powr-Trol lever to extreme rear or "fast drop" position.

With Powr-Trol lever in rear position (fast drop, see Figure 18) the pressure is relieved on the piston and proper distance between cylinder mounting pins can be obtained by moving piston by hand.

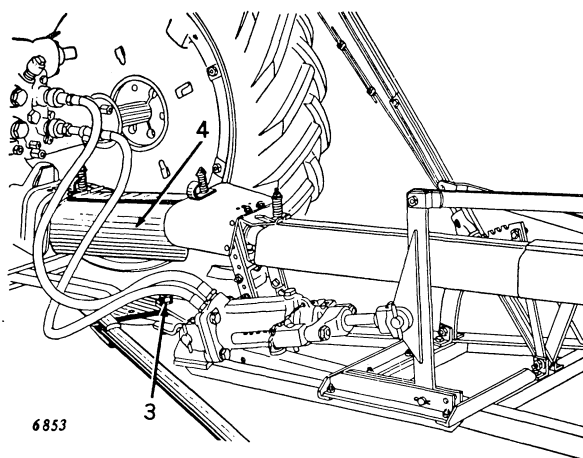
HOOKING UP TO TRACTOR—Continued



6851

Figure 18

1. Attach remote cylinder.
2. Make sure tractor gear shift is in neutral position before starting engine. Move Powr-Trol lever forward to "slow drop" position until windrower hitch is same height as tractor drawbar.



6853

Figure 19

3. Bolt windrower hitch to tractor drawbar. If 16-foot windrower, bolt hitch plate on equalizer pipe to tractor drawbar with two bolts.

4. Attach universal joint with safety shield.

Important Note: The above instructions are for John Deere Powr-Trol or any two-way acting hydraulic cylinder. Tractor hitch cannot be raised with single acting cylinder (power on extending stroke only).

POWR-TROL REMOTE CYLINDER OIL LINE SUPPORT

SHIPPING PACKAGES

- 14487HH Powr-Trol Oil Line Support Rod, Clamp, and Spring.
AP22043H Powr-Trol Oil Line Support Rod Bracket.

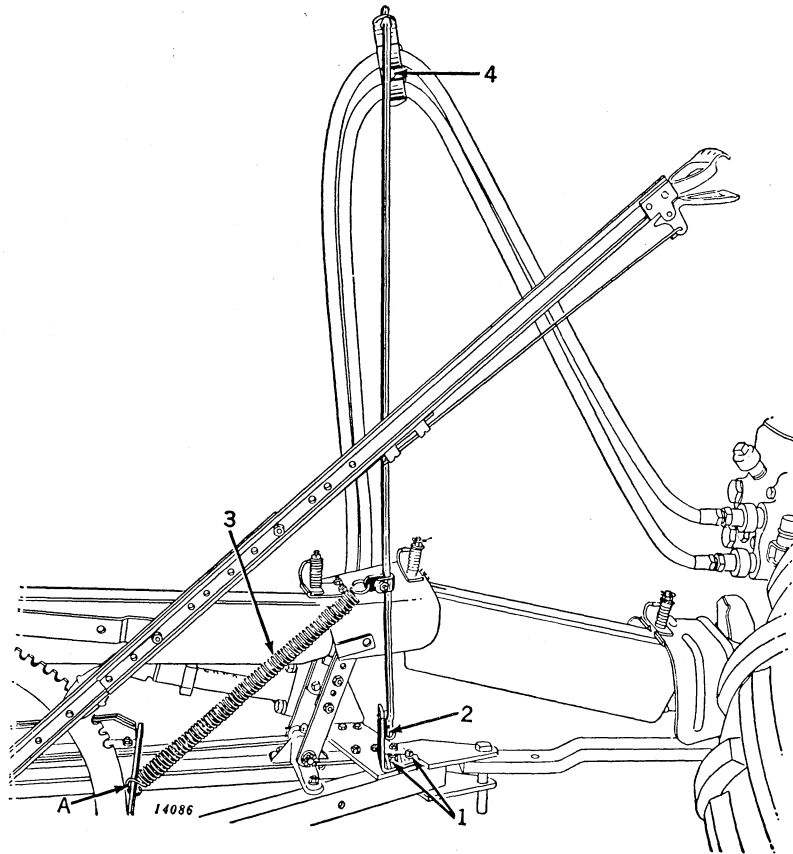


Figure 20

1. Bolt oil line support rod bracket with two cap screws.
2. Insert oil line support rod through trunnion welded to support bracket. Slide flat washer onto left-hand end of rod and insert cotter through hole in rod and spread.
3. Attach oil line support rod spring to front Powr-Trol cross angle on hitch at "A." Early Powr-Trol angles did not have hole at "A." If drilling 13/32-inch hole, locate 1-11/16 inches from R.H. end and 1/2-inch up on angle.
4. Loosen wing nut in clamps and insert oil lines.

SHIPPING PACKAGES

12-Foot	Description	16-Foot
15006 HH	Crate of Parts.....	15006 HH
14040 HH	Front Power Shaft with Bearing.....	14040 HH
14336 HH	Inner Windshield, Layer Finger, Finger Shield and Rod.....	15004 HH
.....	Inner End Platform Canvas, Finger Shield and Rod.....	15005 HH
14553 HH	Main Frame with Main Wheel Supports.....	14553 HH
14416 HH	Platform Complete with Windshield.....	
.....	Platform Windshield.....	15892 HH
.....	Platform Complete less Windshield.....	15920 HH
AP 14119 H	Platform Canvas.....	AP 14118 H
14387 HH	Platform Tilting Lever.....	14387 HH
10395 HH	Grain Wheel, with Tire and Tube.....	10442 HH
15487 HH	Grain Wheel, less Tire and Tube.....	15488 HH
9396 HH	Main Wheel, with Tire and Tube.....	9396 HH
15491 HH	Main Wheel, less Tire and Tube.....	15491 HH
10527 HH	Power Shaft Telescoping Shield.....	10527 HH
9400 HH	Rear Universal Joint on Power Line....	9400 HH
15081 HH	Reel Arms.....	15078 HH
11651 HH	Reel Inner Support and Braces.....	11651 HH
11127 HH	Reel Outer Support.....	11128 HH
10397 HH	Reel Pipe.....	10448 HH
15080 HH	Reel Slats.....	15079 HH
.....	Side-Draft Equalizer Pipe and Braces...	10538 HH
14385 HH	Tractor Hitch with Reel Lifting Lever..	14385 HH
AP 19184 H	Windrow Shield (For Back Swathing) ...	AP 19185 H
15089 HH	Outside Divider.....	15089 HH

HOOKUP SHIPPING PACKAGES—12- AND 16-FOOT

AZ 3251 H	Shield on Power-Driven Windrower Power Shaft Front Support.	
14912 HH	Universal Joints and Pipe Connection, 1-3/8- Inch Spline with Non-Removable Safety Shield.....	Depends on Size of Take- Off Shaft on Tractor
14558 HH	Universal Joints and Pipe Connection, 1-3/4- Inch Spline with Non-Removable Safety Shield.....	
14556 HH	Universal Joints and Pipe Connection, 1-1/8- Inch Spline with Non-Removable Safety Shield.....	

TRANSPORT TRUCK

15492 HH	Transport Wheel, less Tire and Tube (2 used).....	15492 HH
14574 HH	Transport Wheel, with Tire and Tube (2 used).....	14574 HH
14678 HH	Transport Axle with Tongue, Complete.	14678 HH
14679 HH	Transport Axle Support, Complete.....	14688 HH

SPECIAL EQUIPMENT

14882 HH	Extension Loop Divider.....	14882 HH
*14303 HH	Powr-Trol Platform Tilting Parts.....	*14303 HH
14487 HH	Powr-Trol Oil Line Support Rod, Clamp, and Spring.....	14487 HH
AP 22043 H	Powr-Trol Oil Line Support Rod Bracket	AP 22043 H
**14954 HH	Reel End Shields.....	14954 HH
**15083 HH	Hardware for Reel End Shields.....	15083 HH

*In lieu of 14387HH when Powr-Trol is to be used.

**NOTE: If reel end shields are desired for both ends of reel, order two.

ASSEMBLY

Unpack and place all parts where they will be handy. **Then follow these instructions carefully.**

The darkened portions of the following progressive illustrations show the parts to be attached in the proper order. Follow closely the order in which they are numbered and lettered. Important adjustments or special reference in setting-up are illustrated by arrows.

When bolting on parts, do not tighten each bolt, but put in all bolts, then tighten after unit is completely in place. Place lock washers on bolts and **keep nuts tight**. Spread cotters. After windrower is completely set up, check entire machine, as improper setting-up may cause inferior work and damage to windrower.

Lubricate all bearings and working parts freely. Be sure grease fittings are not clogged with paint. Brush chains freely with a light oil.

Loosen paint in slip clutches by slipping several times. Bearings clogged with paint should be either cleaned with kerosene or scraped.

Important: In cold weather, transmission oil may be used in grease gun.

Important: Universal Joints.

Remove paint and burrs from square end of drive shaft before attaching universal at rear end of power shaft. Tighten bolts evenly making sure side bars fit down evenly on shaft and center block. Be sure leather washers are in place on center block.

Lubricate Universals Freely Before Starting.

MAIN WHEEL—PLATFORM— GRAIN WHEEL

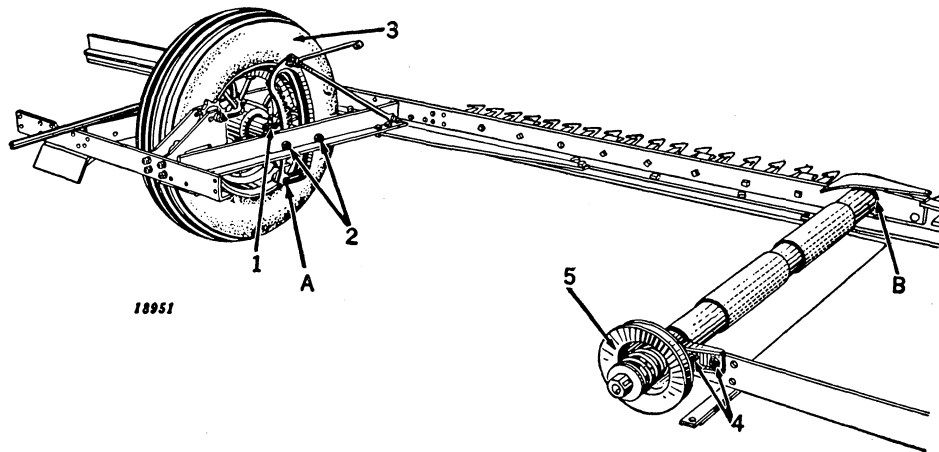


Figure 21

Block up platform about 15 inches from ground.

1. Bolt P2618H reel drive sprocket to main wheel.
2. Bolt right-hand and left-hand sectors to wheel support angles.
3. Raise left-hand end of platform and roll main wheel into position with raising crank inside and over wheel frame angle. **Be sure pinions enter sectors evenly** and turn raising crank until pinions are in center of sectors. Flatten end of stop bolts "A" so they will not fall out. *NOTE: Remove wood shipping support from rear of platform.*
4. Place roller bearing into platform roller front bearing box (see "B"). Slide roller gudgeon into bearing and secure rear bearing bracket to rear sill. Do not tighten bolts as platform windshield fastens here later.
5. Slide P2099H (7-3/8-inch diameter) driven sheave onto rear roller gudgeon and secure with slip clutch, spring and nut. Slip clutch should be just tight enough to operate without slipping.

MAIN WHEEL—PLATFORM— GRAIN WHEEL—Continued

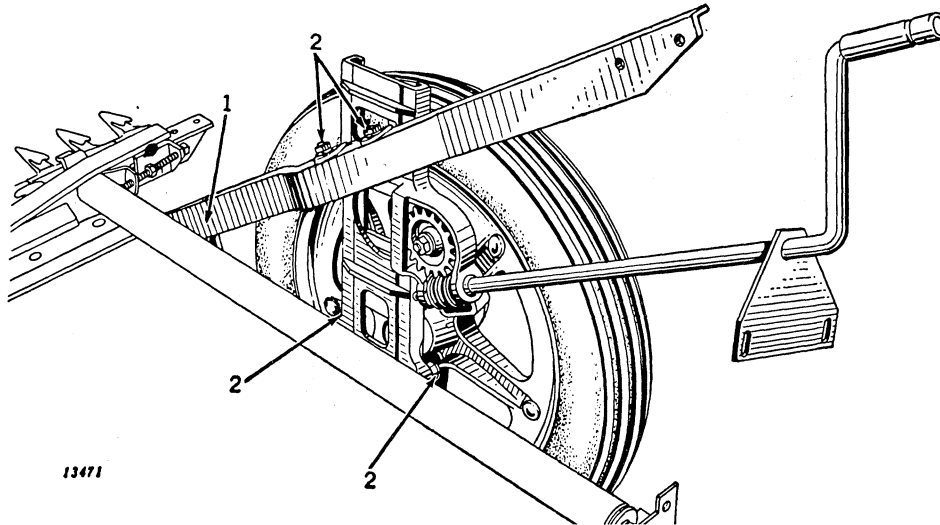


Figure 22

1. Bolt windshield angle to platform outer cross angle.
2. Set grain wheel and raising sector assembly into place and secure to platform outer cross angle and to windshield angle.

PLATFORM WINDSHIELD, INNER END

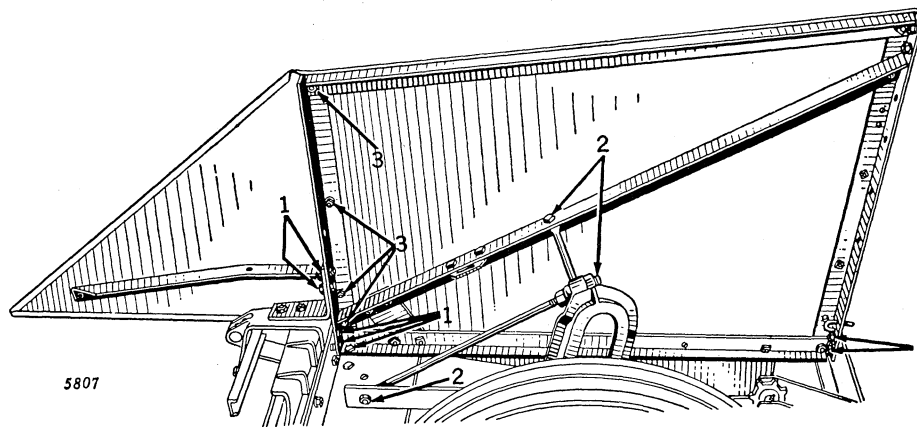


Figure 23

1. Attach windshield at inner end of platform to platform front sill, main wheel frame rear sill, and bracket on tractor hitch bracket.
2. Attach long round brace to R.H. support angle for wheel. Short round brace attaches to windshield diagonal angle.
3. Attach inside divider to inner windshield.

REAR POWER SHAFT—PITMAN DRIVE

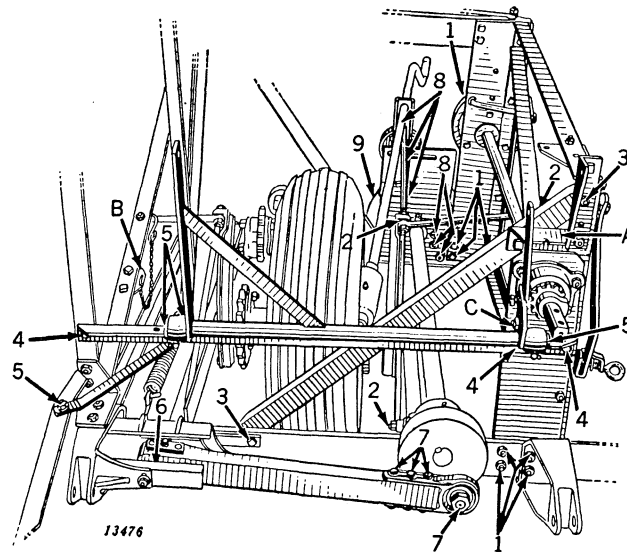


Figure 24

1. Bolt power shaft frame to platform front sill and wheel frame rear sill, also key sheave (PK622H—7-11/32-inch dia.) to rear end of power shaft and tighten set screw.
2. Bolt adjustable brace on sector to wheel L.H. support angle and short brace to power shaft frame diagonal angle.
3. Bolt diagonal angle to rear sides of platform front sill and power shaft frame rear upright angle. Attach power shaft shield bracket at "A."
4. Attach angle for reel raising crank.
5. Bolt reel raising crank to angle, flat brace attaches to L.H. bolt in reel crank bearing and to inside divider brace angle.
6. Pull sickle out of head guides and remove front guide. Slide pitman onto sickle head and replace front guide in sickle head. Slide sickle back into head guides. Sickle guide support must align with cutter bar (see Page 9). Guide casting must work freely in slide.
7. Remove box with bearing from pitman, also nut and washer from flywheel. Slide pitman box on wrist pin and rebolt box to pitman. Replace wrist pin nut and cotter. Washer goes between pitman bearing and wrist pin nut.
8. Bracket for pitman drive belt idler bracket attaches to the two bolts for pitman shaft rear bearing in addition to the four bolts found in bracket.

REAR POWER SHAFT—PITMAN DRIVE—Continued

Slide bracket over main wheel raising crank, and onto bolts for pitman box bracket. Make sure bracket is on front side of main wheel frame. Round brace on main wheel L.H. support angle fits into wheel raising crank bracket. Adjust nuts on brace to hold belt idler bracket rigid.

9. Attach driven sheave, slip clutch, spring and nut to rear end of pitman shaft. Cotter nut to shaft.

PLATFORM WINDSHIELD

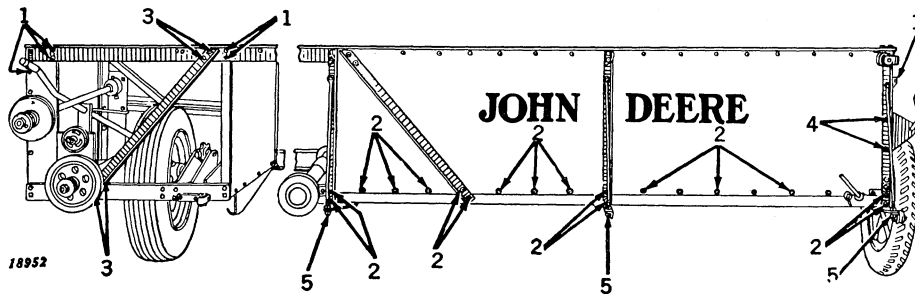


Figure 25

1. Remove bolts from rear canvas guide on platform. Set windshield into position and bolt to power shaft plate, inner windshield upright angle, and to angle at outer end of platform. Place filler block (P29662H) between windshield top angle and rear upright angle for inner windshield, 12-foot only.

2. Bolt upright angles to platform rear sill, at same time attach rear canvas guide. Windshield plate goes to rear of platform rear sill. Replace bolts taken from canvas guide (as in No. 1). Bolts go through guide, rear sill, and windshield plate.

3. Bolt diagonal angle as shown.

4. Bolt grain wheel raising crank bracket to front side outer upright angle.

5. Secure and adjust windshield brace rods to platform cross angles so windshield is square with platform.

TRACTOR HITCH—CONTROL LEVERS

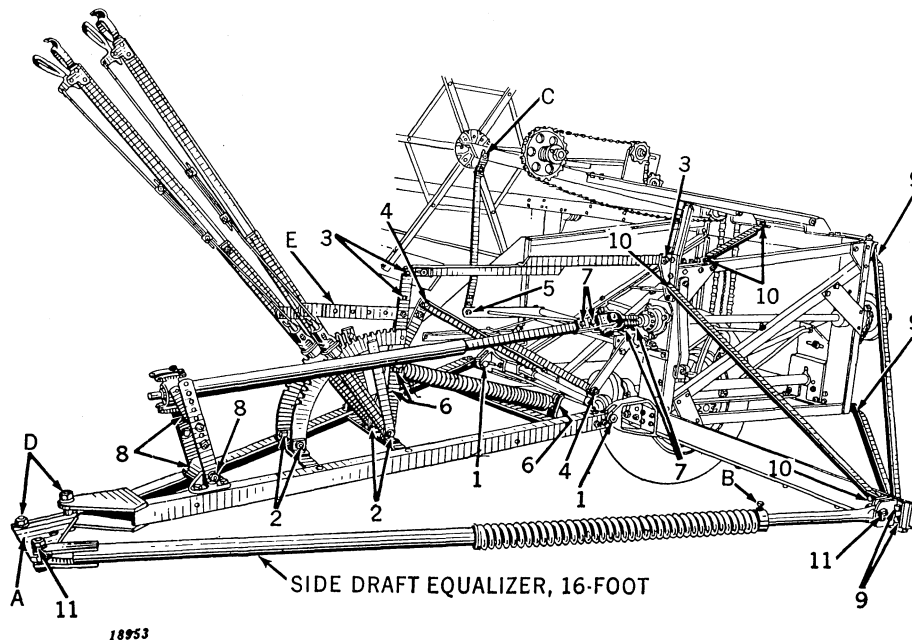


Figure 26

1. Pin tractor hitch to brackets.
2. Bolt tilting lever assembly onto tractor hitch as shown. Filler plate goes between hitch front cross angle and angle brackets on front of lever sectors (see Figures 5 and 6 for lever adjustment).
3. Bolt rear end of platform lifting angle to bracket on windrower with bolt and trunnion and secure front end to L.H. lever assembly with lock strap in hole indicated by upper arrow on "3" for 12-foot, and to lower arrow on "3" for 16-foot. *NOTE: Extra holes "E" change position of lever when hooking to various tractors.*
4. Bolt rear end of reel raising angle on reel raising arm, L.H., with bolt and trunnion and secure front end of R.H. lever assembly with lock strap.
5. Secure lower end of reel raising angle to reel raising arm, R.H., with bolt and trunnion.
6. Secure lifting spring offset bolt into raising lever assembly as indicated by lower arrow on "6" for 12-foot, and top arrow on "6" for 16-foot. Bolt adjusting bolt clip behind angle on hitch.
7. Bolt universal joints to power shaft and to telescoping square shaft on tractor hitch. Side bars of universal must fit tight on square shaft.

TRACTOR HITCH—CONTROL LEVERS—Continued

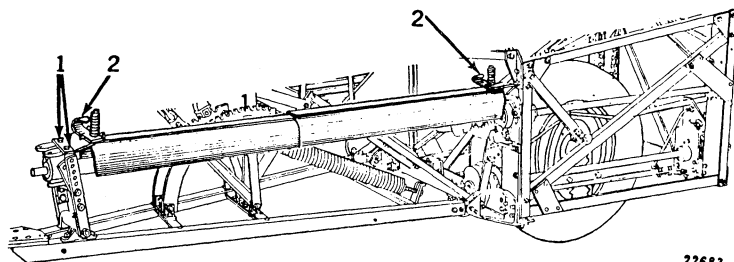
8. Attach upper and lower supports for bearing to front of tractor hitch. Upper bracket takes special shoulder bolt.

SIDE-DRAFT EQUALIZER

(16-Foot Platform Only)

9. Attach upper and lower angles.
10. Attach front angle.
11. Bolt equalizer pipe to bracket on platform front sill and to hitch plate at front.

To Adjust: Slide clamp collar, "B," Figure 26, forward to increase spring pressure and back to decrease. Compress spring to 2 inches when tractor is straight ahead. If outer end of platform lags, increase pressure. **CAUTION:** Excessive pressure will cause pipe to bottom when turning short to the left.

TELESCOPING SHIELD FOR POWER DRIVE SHAFT

22683

Figure 27

1. Bolt shield bracket to rear set of holes in power shaft bearing housing.
2. Attach telescoping shield.

REEL SUPPORTS AND OUTSIDE DIVIDER

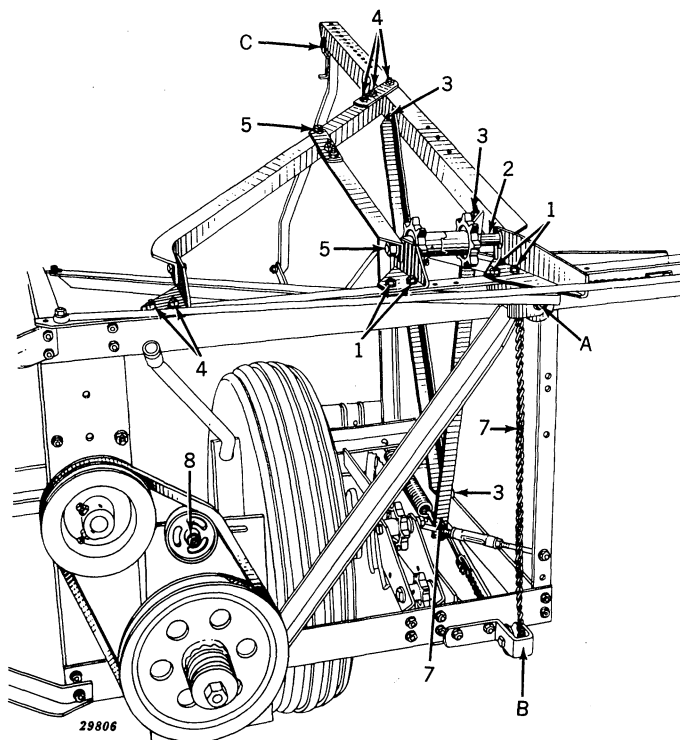


Figure 28

1. Bolt reel countershaft brackets to windshield top angle. Attach reel leveling chain sheave and bracket "A" to underside of windshield top angle.
2. Attach rear end of reel inner support angle onto countershaft, placing flat washer between angle and countershaft bracket.
3. Bolt upright angle and diagonal brace angle to reel inner support angle. Reel lifting spring hooks into hole in platform front sill and to tilting angle with double nuts on eyebolt. (See "3," Figure 30.)
4. Bolt diagonal angle to reel support angle and windshield top angle.
5. Bolt brace angle to diagonal angle and countershaft. Secure reel raising angle as shown at "C."
6. Attach reel leveling chain rod with clips to windshield first and second upright angles on 12-foot platform and first, second, and third upright angles on 16-foot platform.
7. Secure chain having threaded eyebolt to inner end of leveling rod. Run eyebolt and chain through sheaves "A" and "B." Secure to reel tilting angle.
8. Attach pitman drive belt. Adjust tightener.

REEL SUPPORTS AND OUTSIDE DIVIDER—Continued

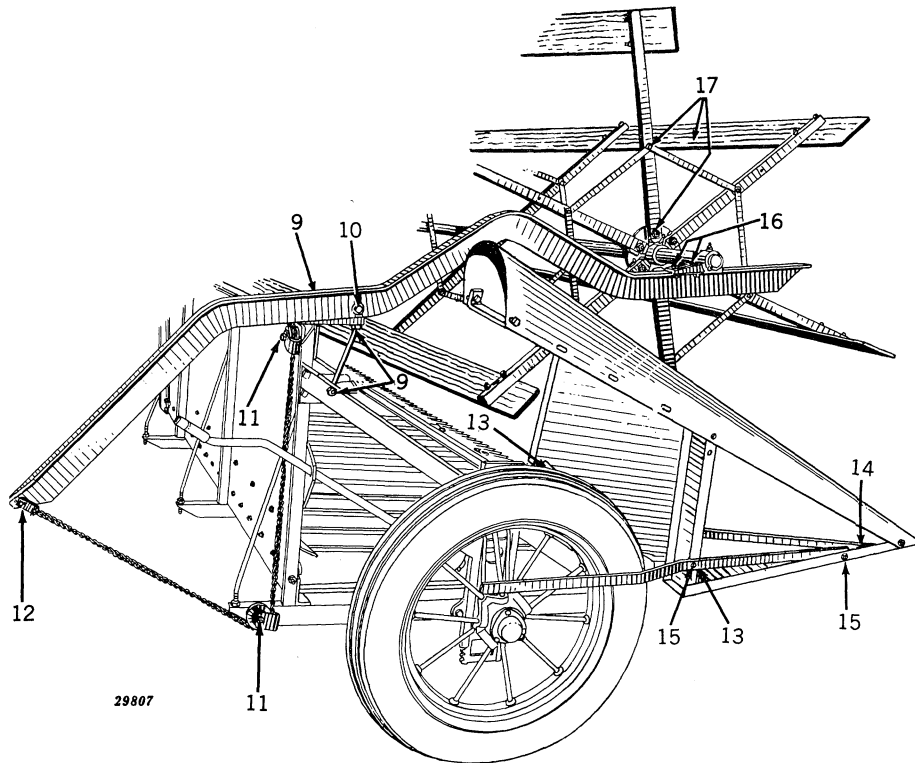


Figure 29

9. Bolt support bracket for reel support angle, outer, to windshield top angle. Secure round brace to support bracket and to windshield brace angle.
10. Bolt reel support angle, outer, to support bracket on windshield top angle.
11. Bolt sheaves to windshield top angle and platform outer cross angle.
12. Slide chain at outer end of reel leveling rod through sheaves and secure to rear end of reel support angle, outer.
13. Bolt outside divider to cutter bar and diagonal angle.
14. Bolt inner fender strap to outside divider runner.
15. Bolt outer fender strap to outside divider runner and upright channel.
16. Set reel pipe onto support angles. Bolt reel pipe bearing box to outer support angle as shown. Bolt bearing box, L.H., to inner support angle in the same manner.
17. Attach reel arms, slats, and brace straps.

REEL SUPPORTS AND OUTSIDE DIVIDER—Continued

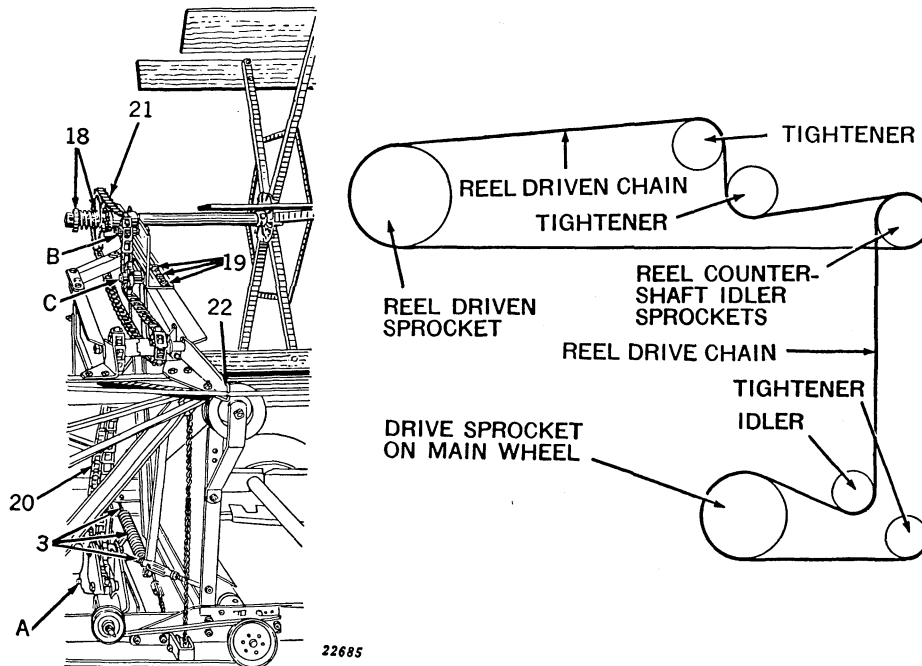


Figure 30

18. Slide reel driven sprocket onto inner end of reel pipe and replace spring, adjusting nut, and cotter. Adjust slip clutch just tight enough to drive reel but loose enough to slip when operator holds slat with his hands.

19. Bolt reel-driven chain tightener bracket to reel inner support angle with three bolts.

20. Attach reel drive chain and adjust tightener sprocket at "A."

21. Attach reel driven chain and adjust tightener sprockets, "B" and "C."

22. Bolt windshield truss rod to inner and outer ends of windshield top angle. Be sure truss rod fits into slot on rear of reel countershaft R.H. support bracket.

WINDROW LAYER, SHIELDS, AND PLATFORM CANVAS GUIDE

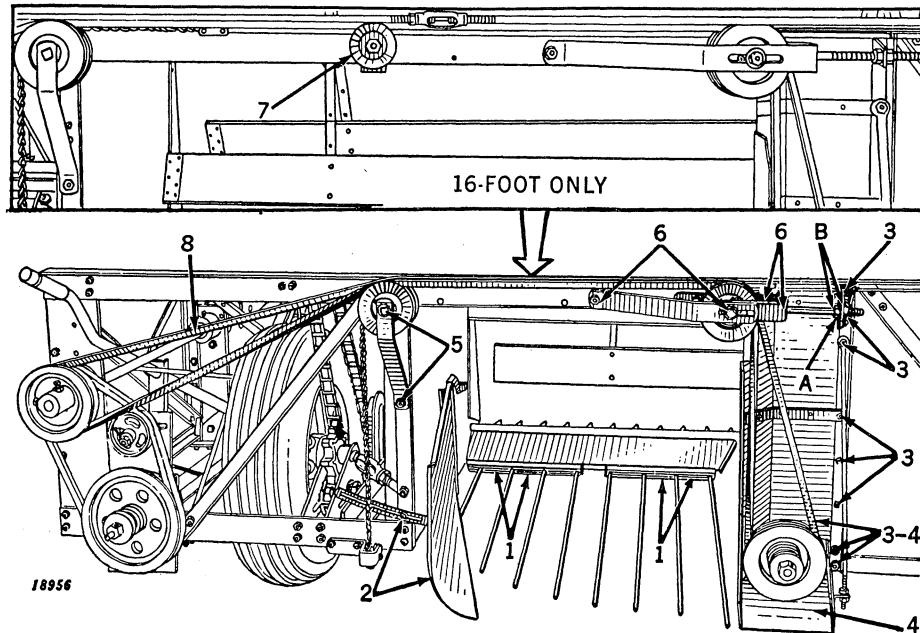


Figure 31

1. Slide stiffener shield onto fingers of layer. Bolt windrow layer finger assembly to platform front sill. Chain controlling slope of fingers fastens in eye ("B," Figure 24).

2. **12-foot Platform only:** Bolt deflector shield to inner windshield, rear adjusting bracket to upright angle with J-bolt and adjust.

3. Remove bolts in platform inner roller bearing bracket, rear. Slide upper section of shield into place. Shield goes between windshield and upright angle and between bearing bracket and platform rear sill. Bolt into place with stove bolts.

4. Slide lower section of shield into place and bolt to upper section. Replace bolts through rear bearing bracket.

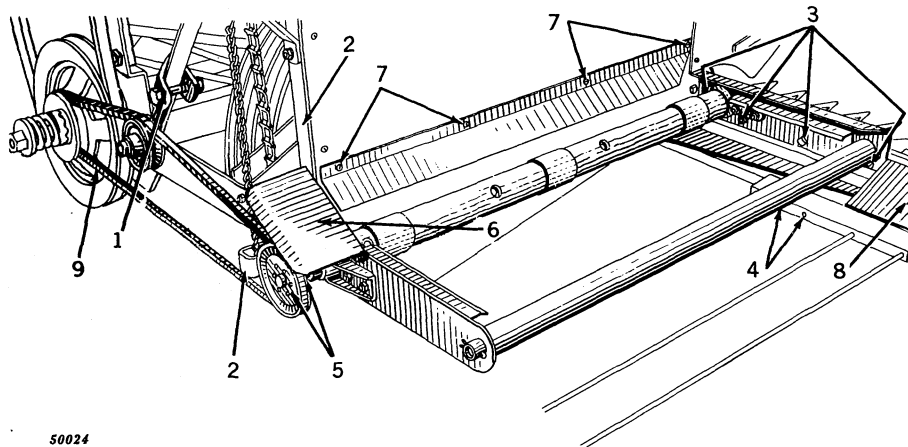
5. Bolt platform canvas drive V-belt idler assembly, L.H., to rear of windshield.

6. Bolt platform canvas drive V-belt idler assembly, R.H. to rear of windshield top angle. Bolt tightener bracket "A," to windshield at two upper holes at "3."

7. **16-foot Platform only:** Bolt idler wood roller assembly to rear of windshield top angle in center of windrow opening.

8. Attach platform canvas drive V-belt as shown. Adjust tightener at "B."

INNER END PLATFORM CANVAS (16-Foot Platform Only)

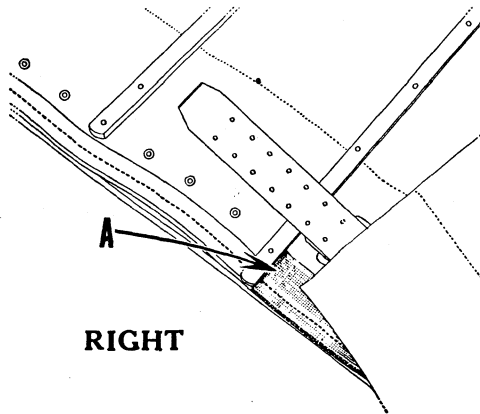


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Figure 32

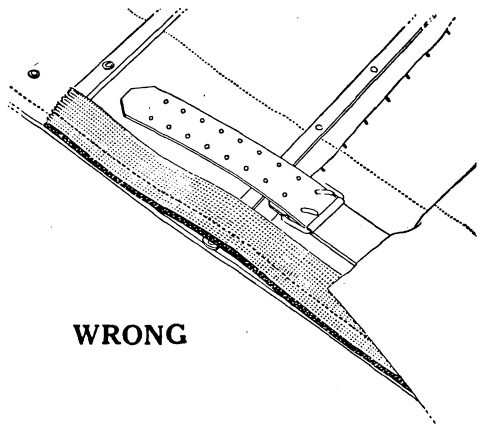
1. Attach drive belt tightener sheave bracket.
2. Set canvas assembly into position and attach rear support to bolts in reel chain sheave bracket and windshield upright angle.
3. Front support bolts to holes in platform front sill.
4. Remove the two inner windrow layer fingers from assembly.
5. Attach inner end platform canvas driven sheave to inner drive roller with pin and cotters.
6. Secure inner end platform canvas driven sheave shield to inner end platform canvas rear sill with two bolts.
7. Attach long shield to windshield on inner end of platform.
8. Secure short hinge plate to platform front sill.
9. Attach V-belt and adjust tightener.
10. Attach inner end platform canvas, making sure flap covers opening as canvas operates. Tie canvas flap down.

PLATFORM CANVAS



RIGHT

Figure 33



WRONG

Figure 34

1. Set platform canvas outer idler roller in center of adjustment slots. *NOTE: Before attaching canvas, examine canvas guides for any loose obstructions that might catch the slats and injure canvas.*

2. Slide canvas under rollers and into canvas guides. Buckle canvas evenly as tight as possible. Tie canvas flap down. **CAUTION:** Leave enough slack for flaps to go around rollers, otherwise the grommets will be torn from the flap.

3. Adjust tension of canvas just tight enough to work without slipping.

4. Cut seal strap on front edge of canvas so end of strap will butt up even with metal slat across end of canvas, as shown at "A," Figure 33. The **right** and **wrong** way of cutting the seal strap is shown in Figures 33 and 34.

5. Attach platform canvas rear shield to front side of platform windshield (not shown in illustration).

6. Run canvas idle and adjust idler roller adjusting bolts until canvas centers in platform.

MEMORANDA

[illegible]

MEMORANDA

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



nobody can fill them like you can!

That's what the owner of this pair of work shoes is finding out—the hard way. Through a careless action, he has become the victim of an accident. It's a mighty tough way to find out that nobody else can wear your shoes or practice safety for you. And a needless, costly lesson to learn that safety is an everyday need.

Put safety into each of your workdays; read the operator's manual thoroughly; know how to operate each machine properly and safely; take the safety precautions specified; think before you act.

Make sure you wear your "shoes" everyday. Outfit yourself with a safety program now.

IMPORTANT (Supplement to Operator's Manual)

TRANSPORTING

Never transport your Windrower on a public road after dusk or during periods of poor visibility unless your tractor is equipped with proper lighting in good working condition (see your tractor Operator's Manual) and your Windrower is equipped with reflective tape as described below and illustrated on the following page.

Your tractor lights and reflective tape will warn other drivers that you are traveling on the highway, thereby protecting you and others from injury or possible death.

The reflective tape can be obtained from your John Deere dealer by ordering the following:

16-Foot Windrower:

- JD-134-B -- 2" x 8" Red Reflective Tape (order two).
 - Right-hand, rear, upper corner of windshield.
 - Left-hand end of front sill on rear of vertical leg.
- JD-135-B -- 1-1/2" x 11" Red Reflective Tape (order two).
 - Left-hand end frame on lower end of rear vertical angle.
 - Left-hand forward end of side draft equalizer.

12-Foot Windrower:

- JD-134-B -- 2" x 8" Red Reflective Tape (order two).
 - Right-hand, rear, upper corner of platform windshield.
 - Left-hand end of windshield top angle on vertical leg.
- JD-135-B -- 1-1/2" x 11" Red Reflective Tape (order two).
 - Left-hand end frame on lower end of rear vertical angle.
 - Forward leg of left-hand hitch angle on vertical leg.

9-Foot Right-Hand Cut Windrower:

- JD-134-B -- 2" x 8" Red Reflective Tape.
 - Right-hand, rear, upper corner of windshield.
- JD-135-B -- 1-1/2" x 11" Red Reflective Tape (order three).
 - Left-hand end of windshield top sill.
 - Right-hand end of frame, upper end of rear vertical frame angle.
 - Right-hand forward end of hitch tube.

9-Foot Left-Hand Cut Windrower:

Transporting this windrower, in operating position, on public roads after dusk or during periods of poor visibility would be dangerous and is not recommended; therefore, only the reflective tape for the transport position is recommended.

- JD-135-B -- 1-1/2" x 11" Red Reflective Tape (order two).
 - Right-hand end of frame, upper end of rear vertical frame angle.
 - Right-hand forward end of hitch tube.

To Attach Tape: Peel off the backing from the gummed side of the tape, and press the tape firmly onto windrower at locations illustrated on following page. Peel off the black covering from the front of the tape to expose the reflective surface.
Caution: Apply tape only to clean, wax-free surfaces at moderate temperatures.

LOCATION OF RED REFLECTIVE TAPE

