

POTATO DIGGER TWO-ROW LEVEL BED



JOHN DEERE

OPERATORS MANUAL POTATO DIGGER TWO-ROW LEVEL BED

OMF6451 (01APR51) English

OMF6451 (01APR51)

LITHO IN THE U.S.A.
ENGLISH



We share your pride in your new John Deere Two-Row Level-Bed Digger. Behind this digger is the experience of 60 years of potato machinery design and a sincere interest in your potato culture problems. The Level-Bed Digger has the unexcelled features of clean digging and gentle handling, which give more unbruised potatoes at harvest time.

You can look forward to years of complete satisfaction and the security of knowing that your crop will be harvested on time in a clean, unbruised condition.

You own the best, keep it the best. Study this manual carefully, make the few, easy adjustments provided, lubricate frequently, and use Genuine John Deere Parts.

"Right" and "Left," "Front" and "Rear" refer to the operator's "Right" or "Left," "Front" or "Rear" when facing in the same direction the machine will travel.

John Deere Two-Row Level-Bed Potato Digger

Size.....

Date Purchased..... 19...

(To be filled in by Purchaser)

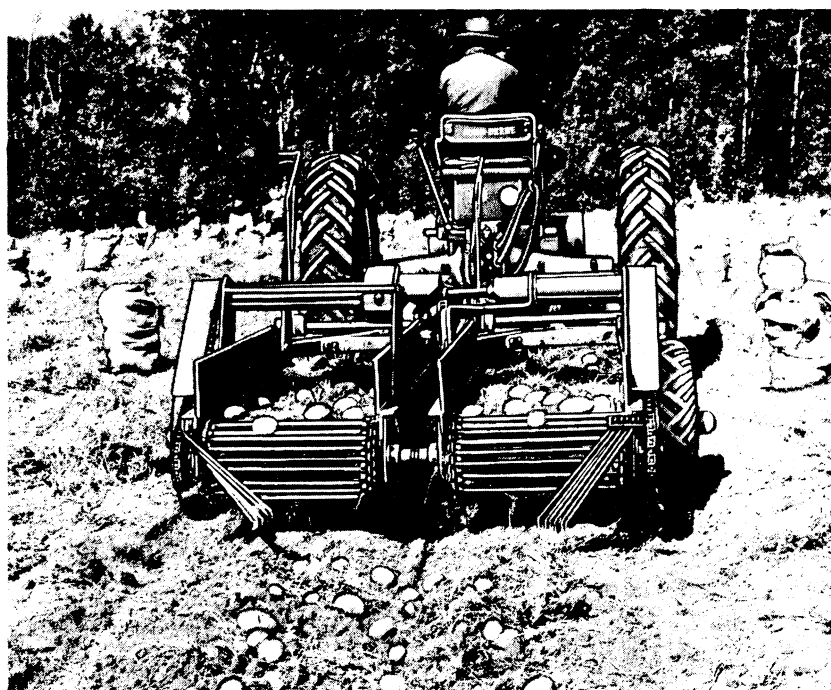


TABLE OF CONTENTS

	<i>Page</i>
OPERATING INSTRUCTIONS	3
Agitation Adjustment	5
Care of Roller Chain	10
Elevator Speed Adjustment	6
Front Elevator Adjustment	4
Guards	10
Lubrication	13
Master Link for Rod Elevator Chain	9
Mechanical Power Lift	11
Method of Connecting Elevator	8
Method of Disconnecting Elevator	9
Powr-Trol	12
Power Drive	7
Separation	3
Shovel Depth Adjustment	4
Slip Clutch	10
Universal Joints	7
ASSEMBLY INSTRUCTIONS	14-28
Shipping Bundles	14
Before Starting	28
ATTACHMENTS AND SPECIAL EQUIPMENT	25
Beam Extensions	25
Center Cleaning Device	26
Hitches	23
Powr-Trol	22-23
Stone Guards	25
Shovels	27
Wheels	27
PARTS LIST AND ILLUSTRATIONS	30-60
NUMERICAL INDEX	61-63

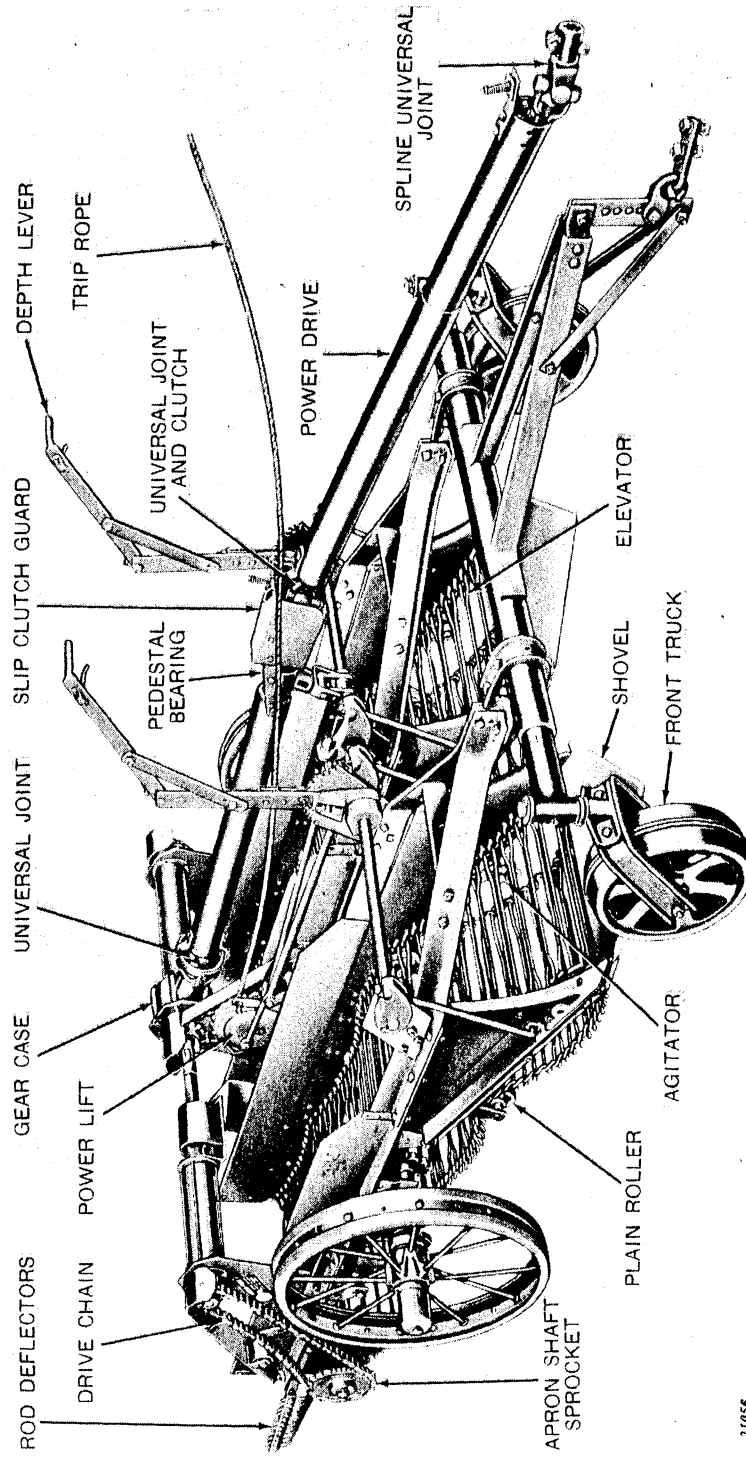


Figure 1—John Deere Two-Row Level-Bed Potato Digger

SPECIFICATIONS

Digger Number	Row Width	Wheels	Digger Bed	
			Length	Width
35924	34"-36"	Steel	9 Ft.	24 Inches
35924R	34"-36"	Pneumatic Tire	9 Ft.	24 Inches
35926	34"-36"	Steel	9 Ft.	26 Inches
35926R	34"-36"	Pneumatic Tire	9 Ft.	26 Inches
39926	38"-40"	Steel	9 Ft.	26 Inches
39926R	38"-40"	Pneumatic Tire	9 Ft.	26 Inches

OPERATING INSTRUCTIONS

1. Always stop the power shaft when making turns.
2. Adjust slip clutch so it will slip when necessary to protect your digger.
3. Run digger for several minutes after assembling and check all bearings and universal joints to be sure they are properly assembled and adjusted.
4. Check all nuts and bolts frequently. It is a good plan to do this each time the digger is lubricated.
5. Grease frequently. (See Lubrication Chart, page 13.)
6. Keep excessive slack out of the digger elevator by removing links when necessary. (See page 9.)
7. Keep lift mechanism well lubricated and bolts TIGHT.
8. Use the proper drive sprockets to suit your separating requirements. (See page 6.)
9. Whenever possible, use a foretruck with your digger. The performance is improved by its use.
10. Use Genuine John Deere Parts. They fit better and last longer.
11. Lubricate telescoping drive shafts freely. (See Lubrication Chart, page 13.)

SEPARATION

Gentle handling of the potatoes is of primary importance and the longer that separation can be delayed, but eventually obtained, the better will be the results.

Delayed separation is desirable because a layer of dirt under the potatoes will cushion them and prevent bruising.

There are four means of adjusting the amount of separation on your digger.

- | | |
|------------------------------|------------------------------|
| 1. Shovel Depth Adjustment | 3. Agitation Adjustment |
| 2. Front Elevator Adjustment | 4. Elevator Speed Adjustment |

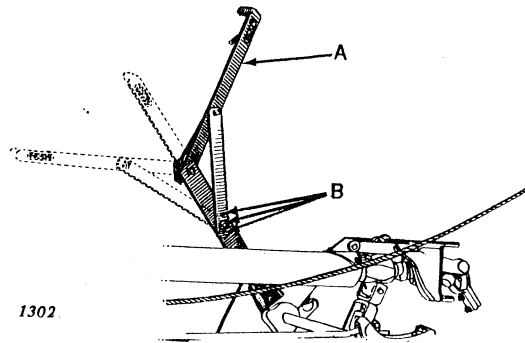


Figure 2

SHOVEL DEPTH ADJUSTMENT

The depth of the shovel determines the amount of earth carried up the elevator. The working depth of the shovel can be readily controlled by the double pawl depth lever, "A," Figure 2.

The holes at "B" permit adjustment of the angularity of the lever arm to facilitate easier operation. The lever may be arranged in any of positions as shown by the dotted lines in Figure 2.

FRONT ELEVATOR ADJUSTMENT

Provision is made in the shovel hangers to change the relation of the elevator to the shovel.

(Figure 3) The holes "A," "B," and "C" permit the position of the front rollers to be varied in relation to the shovel. As the rollers are raised, the elevator breaks the dirt more quickly. The greater the step between the shovel and elevator, the more effective will be the separation.

Important: In stony ground it is advisable that the front rollers be placed in one of the upper holes to provide ample clearance for stones between the elevator and shovel.

(Figure 3) When a "Stone Guard" is used, the front rollers are placed in holes "C." (See page 25.)

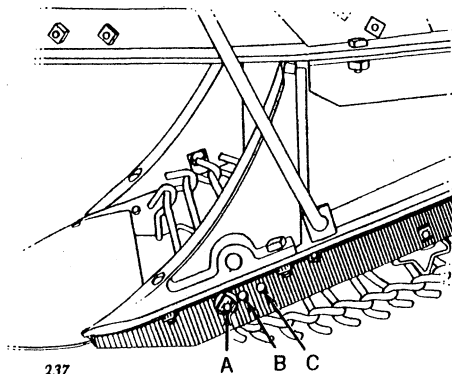


Figure 3

AGITATION ADJUSTMENT

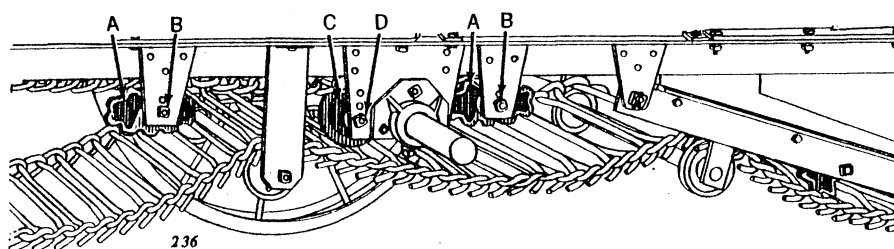


Figure 4

Since separating conditions vary so greatly with soil types and weather it is impossible to advise any definite method of using agitators. However, a variety of agitators and plain rollers are available as shown in Figure 4 so that they may be arranged to meet the users own particular requirements.

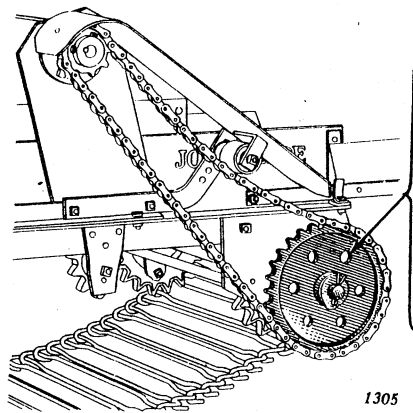
It is a simple matter to change agitators and the results obtained are well worth the short time involved.

The large agitators "A" in Figure 4 are eccentric and weighted so that they normally hang in an idler position. When the elevator bed becomes excessively loaded, it sags sufficiently to engage these eccentric agitators.

For greater agitation, place the large agitators "A," Figure 4, in the top holes at "B" and the plain rollers "C" in the lower holes at "D." To decrease the amount of agitation lower the agitators and raise the plain rollers which tend to keep the elevator from contacting the agitators.

NOTE: Always attach agitators or rollers with the lock washer and nut on the outside of the digger frames.

ELEVATOR SPEED ADJUSTMENT



<i>Number</i>	<i>Size</i>	<i>Elevator Speed</i>
E1037 F	18-Tooth	Fastest
E1038 F	22-Tooth	Fast
E1039 F	26-Tooth	Normal
E1045 F	29-Tooth	Slow
E1046 F	33-Tooth	Slowest

Figure 5

To meet varying field conditions it is sometimes necessary to increase or decrease the speed of the elevator. Five sizes of drive sprockets are available to meet these requirements.

The digger is usually equipped with the E1038 F 22-tooth sprocket.

The E1037 F 18-tooth sprocket can be used to increase the elevator speed. The E1039 F 26-tooth sprocket, E1045 F 29-tooth sprocket, and E1046 F 33-tooth sprocket can be used to decrease the elevator speed.

It is advisable when setting up the digger to keep the extra links of drive chain removed in Figure 17, page 18, so that the drive chain may be lengthened when using the E1039 F, E1045 F, or E1046 F sprockets.

When using the E1038 F or E1037 F sprockets it is necessary to remove a sufficient number of links to keep the drive chain at proper tension.

We recommend that if possible the tractor be driven in second gear with the proper drive sprocket on the digger. Then when it is necessary, in certain spots in the field, to increase the elevator speed, the tractor can be shifted into low gear. Because of a constant power take-off speed, this automatically increases the speed of the elevator in relation to the forward travel of the tractor.

POWER DRIVE

The pedestal bearing support should be moved toward the right-hand beam so that a straight line of power from tractor to digger can be obtained. Pedestal extension (E966 F) may be used to set power drive over right side of left digger unit.

Pedestal should be set so that each of the three universal joints has approximately the same amount of angularity.

The pedestal bearing extension may be removed to lower the power drive if necessary.

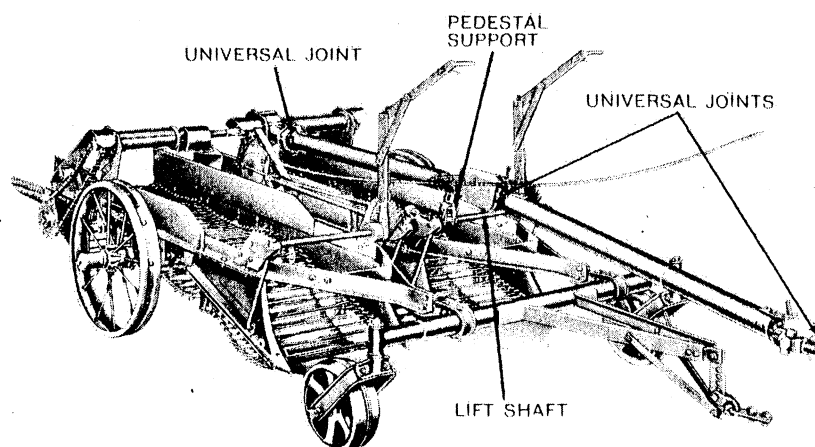
CAUTION: Always stop the power shaft when making turns.

UNIVERSAL JOINTS

When assembling universal joints be sure to tighten attaching bolts evenly and be sure that side bars fit down evenly on square end of shaft and center block. Be sure that leather washers are in place on the center block. Shims are provided for proper alignment to prevent binding.

Always try free end of joint to be sure it does not bind before attaching the next shaft.

Splined universal joints should not be taken apart. Loosen bolts only enough so that splines will slip into the grooves on the tractor power take-off shaft.



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Figure 6

METHOD OF CONNECTING ELEVATOR

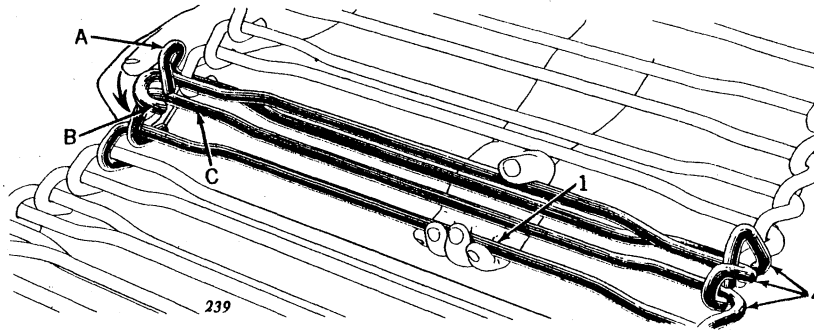


Figure 7

It is possible to connect the links at any place in the elevator, but it is best to work on bottom or return side of the elevator where there is the most slack. Turn all the agitators so that they lie flat to obtain more slack. Then:

1. (Figure 7) Grasp the two last links of one end of the elevator with the thumb of the LEFT hand and the two last links of the other end of the elevator with the fingers of the LEFT hand and draw the four links together.

2. (Figure 7) Place the links "A," "B," and "C" in the position shown.

3. (Figure 7) With the thumb of the RIGHT hand turn link "B" over link "C" in the direction of the arrow which will automatically connect all three links.

4. (Figure 7) When links "A," "B," and "C" are connected, maintain the relative position of the links by holding same with the RIGHT hand instead of the LEFT. Then proceed with the LEFT hand to connect the other ends of the links at "4" following the same procedure as in steps "2" and "3" above.

IMPORTANT: The elevator should be assembled by alternating with "up" and "down" links. Care should be taken that the ends of the links face TOWARD the shovel on the upper side of the elevator. This is to prevent the ends of the links catching on the shovel or other parts in its path of travel.

METHOD OF DISCONNECTING ELEVATOR

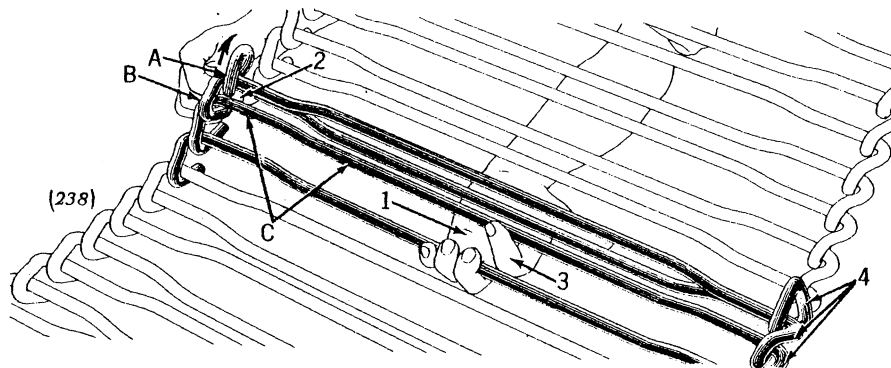


Figure 8

It is possible to disconnect the links at any place in the elevator, but it is best to work on the bottom or return side of the elevator where there is the most slack. Turn all the agitators so that they will lie flat. Then:

1. (Figure 8) Grasp four links with the LEFT hand and draw them together to obtain all possible slack.
2. (Figure 8) With the forefinger of the RIGHT hand push link "A" up and back in the direction of the arrow.
3. (Figure 8) Using the forefinger of the LEFT hand push link "C" down and back between the openings in links at "A" and "B."
4. (Figure 8) When link "C" is disconnected, maintain the relative position of the links by holding the links with the RIGHT hand instead of the LEFT hand and then proceed with the LEFT hand to disconnect the other ends of the links at "4" following the same procedure as in steps "2" and "3" above.

MASTER LINK FOR ROD ELEVATOR CHAIN

Master links (Z1042 F for 24" and Z1043 F for 26" diggers) are available to facilitate connecting and disconnecting rod elevator chain. The master link is straight, without any up or down offset, and is painted aluminum for easy identification in the assembled chain. The chain should be connected or disconnected at the master link. If your digger is not equipped with the master link, use the method described above to connect or disconnect the elevator chain.

SLIP CLUTCH

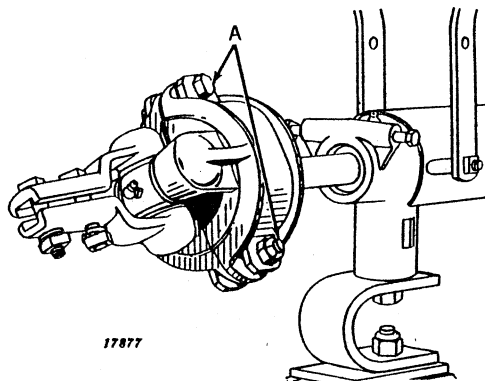


Figure 9

The slip clutch is provided to protect digger parts should a stone or other obstruction become lodged in the elevator.

The clutch is easily adjusted to carry loads from 5 h.p. to 20 h.p. To adjust the clutch, simply tighten or loosen the two bolts "A" to increase or decrease the load carrying capacity.

It is better to adjust for a light load first to be sure the clutch will slip; then tighten until the desired tension is applied. Both bolts should be tightened or loosened a like amount to assure best results.

Always make sure that the set screw is properly seated in the spot in the shaft and is securely tightened and locked in this position.

THE SLIP CLUTCH IS THE SAFETY PROTECTION FOR YOUR DIGGER. KEEP IT PROPERLY ADJUSTED TO MEET ALL CONDITIONS.

GUARDS

Special attention has been given to the shielding of moving parts for the safety of operator. Use care by keeping hands and loose clothing away from shafts, gears, and chains while machine is in operation.

BE SURE THAT GUARDS ARE PROPERLY ATTACHED. DO NOT ATTEMPT TO ADJUST OR GREASE DIGGER WITH POWER DRIVE IN MOTION.

USE AND CARE OF ROLLER DRIVE CHAIN

Roller Drive Chains should be lubricated often. A good grade of light cylinder oil should be used. A paint brush should be used to apply oil to the chain joints.

Take the chain off regularly and clean thoroughly in kerosene. Before replacing the chain, dry well and oil. Before storing the machine clean the chain thoroughly and protect with heavy oil or grease.

MECHANICAL POWER LIFT

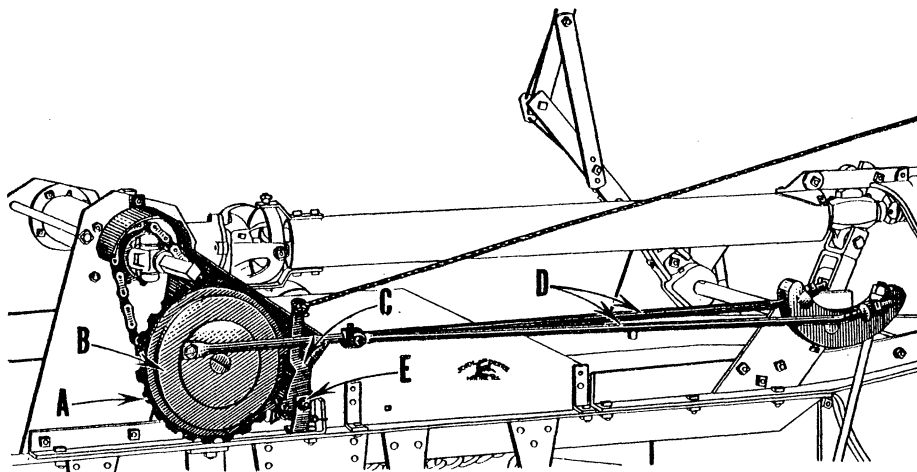


Figure 10

BE SURE TO READ SETTING-UP INSTRUCTIONS ON PAGE 20.

If the lift has been properly set up and checked (see page 20) there should be little need for further adjustment.

The power lift is composed of two cast plates. One plate "A" is driven by the chain from the power drive shaft and revolves constantly with the power shaft. The other plate "B" remains stationary until a pull on the rope and trip lever "C" locks the revolving plate "A." Internal gears between these plates then cause the plate "B" to revolve which in turn pulls back on the lift rods "D" and raises the shovels until the plate "B" has locked into transport position.

Another pull on the rope releases the plate "B" which allows both shovels to drop to the adjusted digging depth.

With this power lift it is not necessary to use the levers for raising the shovels. They can remain in the set position.

For best results the eccentric spindle "E" should be so adjusted to maintain 1/16-inch clearance between the roller and the top of the teeth on the plate "A."

KEEP ALL NUTS TIGHT.

GREASE WELL.

POWR-TROL

The Two-Row Level-Bed Digger can be equipped for hydraulic operation with John Deere Powr-Trol or the hydraulic system of any tractor having sufficient capacity and utilizing a remote cylinder that conforms with A.S.A.E.—S.A.E. standards.

To install Powr-Trol remote cylinder on the digger, remove the rear pin from the power control cylinder and attach the movable arm of the cylinder to the pull rod on the digger. Remove the front pin from the cylinder and place main body of the cylinder on the cylinder support casting and replace pin in cylinder and support casting.

To remove the remote cylinder, remove the two pins and lift the remote cylinder unit from the digger. Use the hand lever to raise the shovel for transport.

For adjusting the cylinder see "Depth of Shovel" below. Refer to your tractor Operator's Manual for operation and maintenance of the Powr-Trol unit.

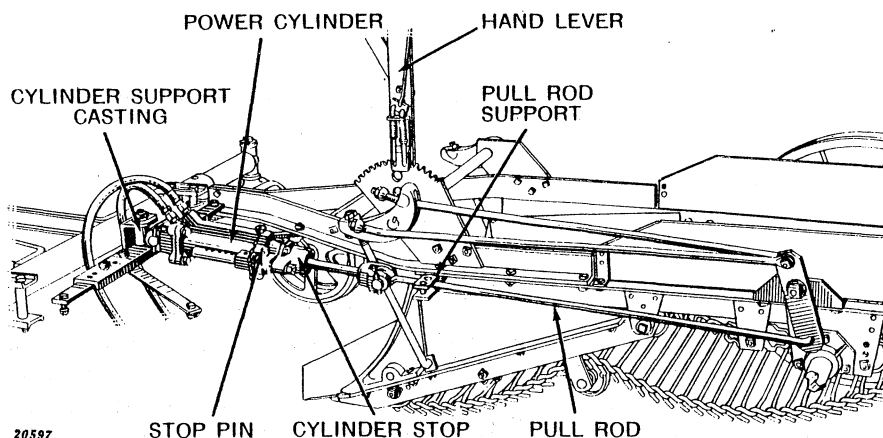


Figure 11

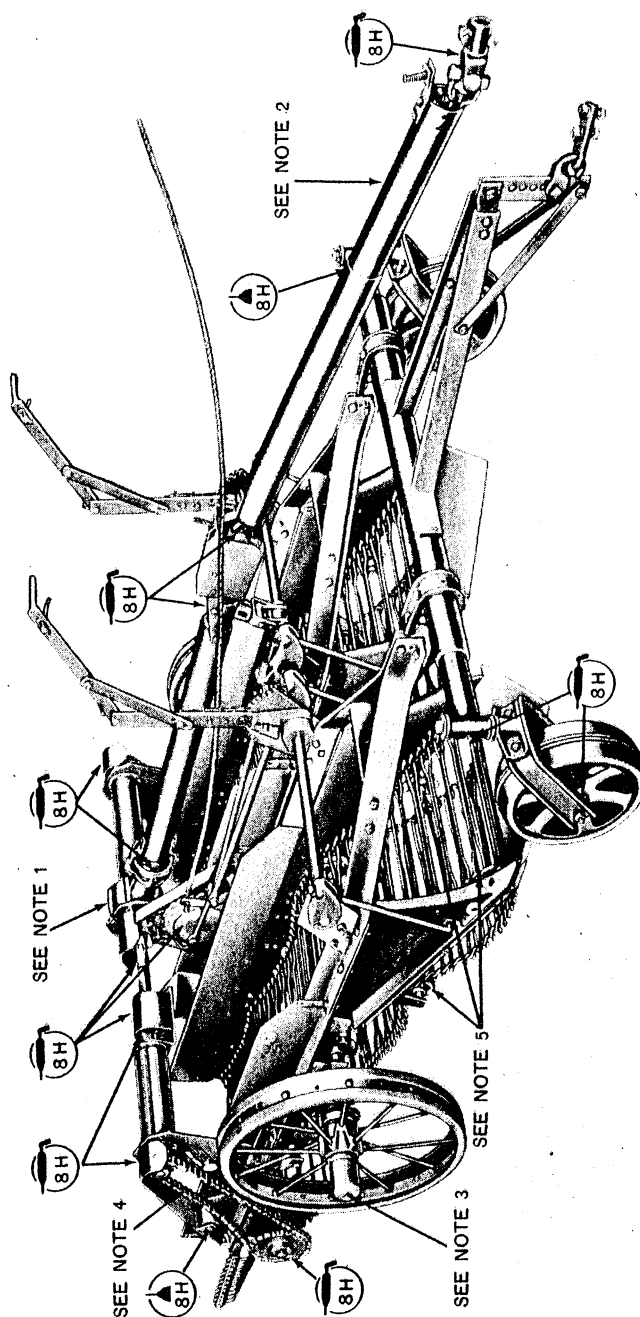
DEPTH OF SHOVEL

To change the depth of the shovel, remove the two stop pins and slide the cylinder stop toward the digger to decrease the depth and toward the tractor to increase the working depth of the shovel. Replace the stop pins.

IMPORTANT: Both these stop pins should always be in place in the cylinder, otherwise the cylinder assembly may be damaged.

The hand depth lever should not be removed when Powr-Trol is used on the digger. The lever is used to hold the shovel in raised position for transport, and, if desired, can be used with the Powr-Trol in regulating working depth.

LUBRICATION



Note 1. Fill gear case with 1 pint S.A.E. 140 oil before starting. Drain, flush, and refill each year.

Note 2. Keep telescoping drive shafts well greased.

Note 3. Pack wheels with grease.

Note 4. See page 10 for care of roller chain.

Note 5. Do not oil agitators or plain rollers.

SYMBOLS



Grease every 8 hours of operation.



Oil every 8 hours of operation.

21057

ASSEMBLY INSTRUCTIONS

These assembly instructions cover the set-up of Two-Row, Tractor-Driven, Level-Bed Potato Diggers.

The following pages illustrate the proper order in which the parts are assembled. The darkened portions are those parts which are assembled or referred to in each stage of the assembly directions. The arrows in the illustrations are numbered to correspond to the paragraphs referring to them.

SHIPPING BUNDLES

			WEIGHT		
DESCRIPTION			35924	35926	39926
1 ALB 45 F	Left Digger Frame, Complete..	1014#	.....	.....	.....
1 ALB 46 F	Right Digger Frame, Complete	816#	.....	.....	.....
1 ALB 47 F	Left Digger Frame, Complete..	.....	1032#	1032#	.....
1 ALB 48 F	Right Digger Frame, Complete	.....	833#	833#	.....
1 ALB 50 F	35" Axle Assembly.....	94#	94#	.....	.....
1 ALB 51 F	39" Axle Assembly.....	.....	.....	99#	.....
1 ALB 225 F	Rod Deflector.....	27#	27#	27#	.....
2 JD 712 F	Steel Wheel 32" x 4".....	55.3#	55.3#	55.3#	.....
1	Hitch Bundle as Ordered.....	.....	.....	.....	.....
1 PD 105	Caster Wheel Front Truck....	246#	246#	246#	.....
1 PD 105R	Caster Wheel Front Truck with Rubber Tires.....	209#	209#	209#	.....
1 PD 105H	High-Clearance Caster Wheel Front Truck.....	254#	254#	254#	.....
1 PD 105HR	High-Clearance Caster Wheel Front Truck with Rubber Tires.....	217#	217#	217#	.....
1 PD 106	Caster Roller Front Truck....	314#	314#	314#	.....
Total Weight with PD105 Truck less Hitch Bundle.....			2308#	2343#	2348#

ATTACHMENTS

1	384 F	Stone Guard, 24" Digger.....	.....	.....	.....
1	385 F	Stone Guard, 26" Digger.....	.....	.....	.....
1 ALB 228 F	Center Cleaning Device.....	.....	.....	.....	.....

ASSEMBLING FRAMES ON AXLE AND WHEELS

1. Remove all parts wired to both frames and put them where they will be handy. Remove axle castings "A," Figure 13, from the steel axle hangers "C." Strip the axle of all parts. Remove caps from wheels.

2. Lay both frames on the floor parallel with each other with both right-hand and left-hand frames in their respective locations.

3. Place a support (box or keg) about two feet high under the rear of each frame.

4. Set the frames so that the distance between the centers of the frames corresponds to the approximate spacing of the rows to be dug.

5. (Figure 13) Slide the axle castings "A" on the axle until the set screws "B" in the castings line up with the proper spots on the axle.

Important: Tighten set screws "B" to their full depth in the proper spots on the axle as noted below.

Note: The proper spots on the axle are determined as follows:

For 24-inch frames use the 2nd and 3rd spots from each end of the axle.

For 26-inch frames use the 1st and 4th spots from each end of the axle.

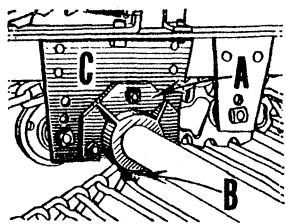


Figure 13

6. (Figure 13) Slide axle assembly under the frames and over the return elevator. Then bolt axle castings "A" to the steel axle hangers "C."

7. Grease the ends of the axle, then in the following order slide the sand cap, washer, wheel, washer and adjusting cap on each end of the axle. Turn adjusting cap so that when cotter key is inserted all slack is taken up. Insert cotter and spread it.

Note: Drive the head of the cotter pin so that it does not protrude beyond the outer surface of the adjusting cap.

8. Pack wheel cap with a good grade of lubricating grease and screw the cap **TIGHTLY** on the wheel.

SHOVEL, BEAMS, AND FRONT SHIELDS

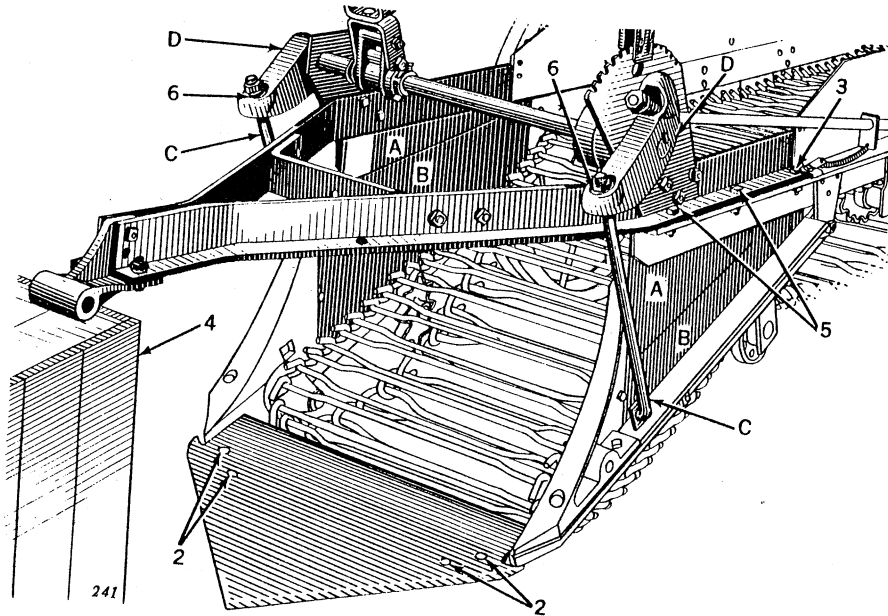


Figure 14

NOTE: The beams, shovels, front shields, and shovel lift rods are assembled the same as on the one-row as shown in Figure 14, except that on the two-row machine the double end lift arms "D" are assembled between the frames. (See Figure 1.)

1. Remove the two bolts holding the beams to the frame, cut all wires, remove all wired parts and put them where they will be convenient.

2. (Figure 14) Remove the wood block from the shovel bracket and attach the shovel.

Note: Remove varnish from shovel before assembling. Mark the bolts in the shovel with a pencil or chalk to be sure that they seat themselves after assembly the same as they were before the bolts were removed.

3. (Figure 14) Slide beam assembly on digger frames to proper position and attach **LOOSELY** with the rear bolts.

4. (Figure 14) Place a support under the front end of the beam.

5. (Figure 14) Slide shields "A" between the frame and beam on side of the digger.

Be sure that the shields "A" are outside of the lower shields "B." Insert the two front bolts on each side through the beam, shield "A," and frame. Before proceeding, tighten bolts at points "3" and "5," Figure 14.

6. (Figure 14) Insert lift rod "C" through lift arm "D."

NOTE: For proper adjustment see page 17.

LEVERS AND PULLEY

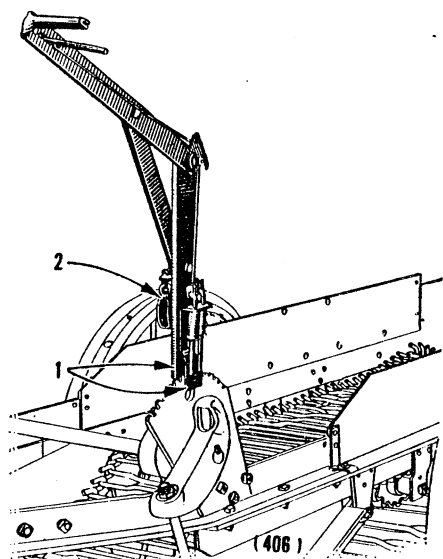


Figure 15

1. (Figure 15) Slide the lever over the sector and attach to the lever foot casting. The two large round holes in the sector permit insertion of the plow bolts holding the lever. The long plow bolt is used in the bottom hole.

2. (Figure 15) Attach pulley (found in bag) to the lever of the right-hand digger.

VINE SHIELDS

1. (Figure 16) Attach extension vine shields "A," as shown. The one-notched shield furnished is bolted to the right-hand side of the left-hand frame.

SHOVEL TRANSPORT CLEARANCE

(Figure 16) Set lever in the transporting notch and adjust nuts "C" so the vine shields just miss the digger frame at "B."

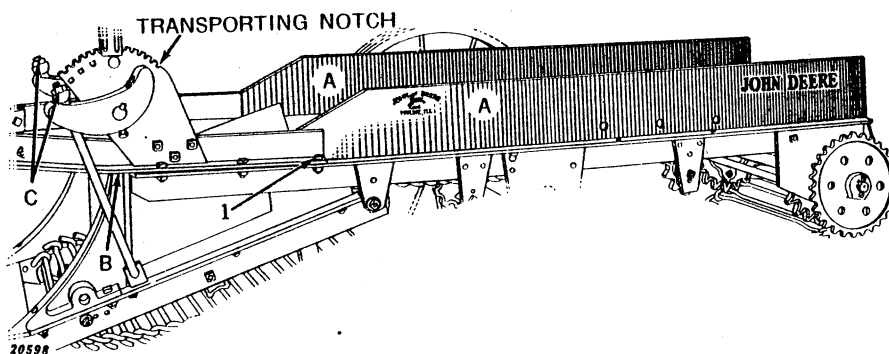


Figure 16

LEFT-HAND POWER DRIVE

**Leave All Bolts Loose
Until Power Drive Is
Completely Assembled**

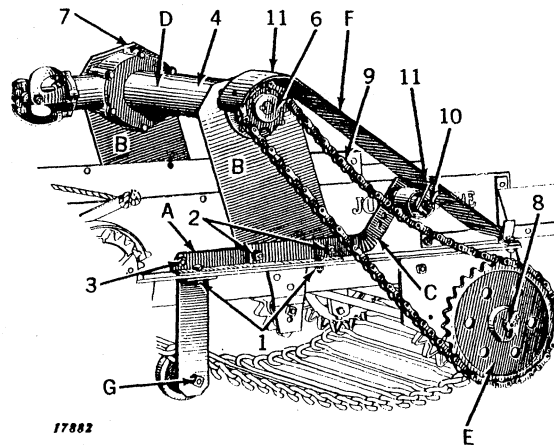


Figure 17

1. (Figure 17) Bolt support angles "A" and return idler support "G" to both frames.

2. (Figure 17) Bolt left- and right-hand support plates "B" to the rear holes in the support angles "A." Plates "B" should be between the vine shields and support angles "A." Idler arm "C" is fastened to the left-hand support angle as shown.

3. (Figure 17) Bolt vine shield to support angles "A" using the two spacing washers (found on

support angles "A") between the shields and support angles "A."

4. (Figure 17) Install the guard tube "D" between the gear case and the tube bearing on the left-hand support plate.

5. (Figure 17) Attach the spreader pipe with the long bolt behind the guard tube "D" and between the support plates "B."

NOTE: The head of the long bolt through the spreader pipe should be on the left-hand side.

6. (Figure 17) Slide washer (found in bag) onto the jackshaft. Then slide the jackshaft through the left-hand support plate bearing, through the guard tube "D" and then through the gear case assembly.

7. (Figure 17) On the right side, line up the keyways in the jackshaft and gear case sleeve and insert the LONG key so that it does not protrude beyond the outer face of the gear case bearing. Then slide other washer (found in bag) on right-hand end of jackshaft. Next fasten collar with set screw on right-hand end of jackshaft.

8. (Figure 17) Attach drive sprocket "E" with square key and cotter pin to the left-hand end of the main elevator drive shaft with long hub to the outside.

9. (Figure 17) Attach drive chain.

NOTE: Surplus links should be taken out and carefully SAVED. (See page 6.)

10. (Figure 17) Attach idler in slot and take up slack in drive chain.

11. (Figure 17) Attach chain guard "F."

LEFT-HAND POWER DRIVE—Continued

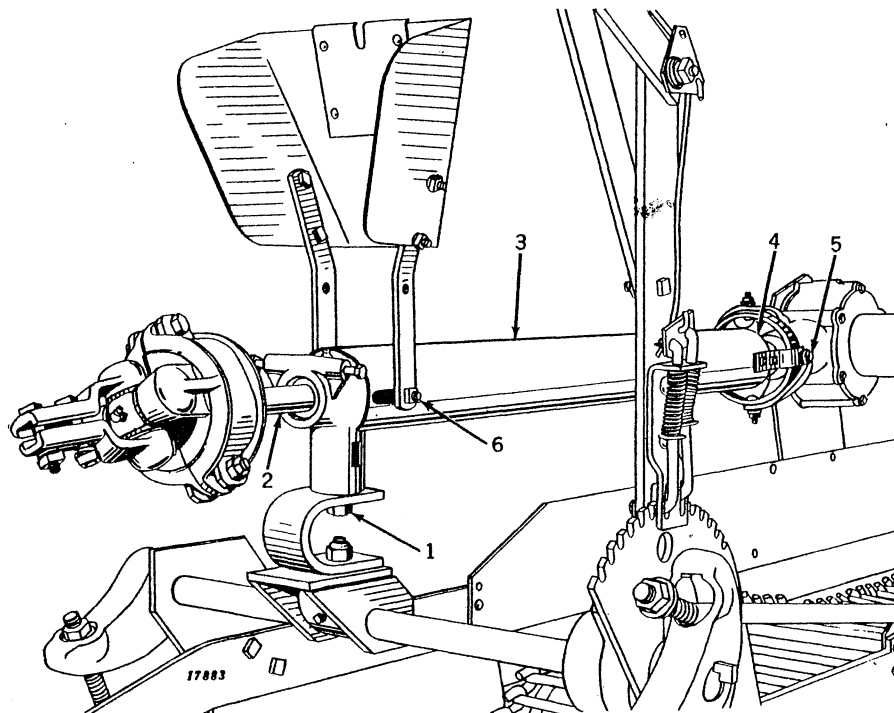


Figure 18

1. (Figure 18) Attach pedestal bearing to pedestal bearing support extension.
2. (Figure 18) Slide drive shaft assembly through the pedestal bearing.
3. (Figure 18) Slide guard tube assembly over the drive shaft.
4. (Figure 18) Fasten drive shaft into the gear case universal joint using the set screw and key (in bag).

NOTE: Set screws on universal joints should be locked with a wire through the heads.

5. (Figure 18) Attach guard tube to universal joint guard on gear case.
6. (Figure 18) Attach slip clutch guard and drive shaft guard to pedestal bearing.
7. Tighten all bolts.

The pedestal bearing may be set anywhere on the lift shaft so that the power shaft will be as straight as possible from the gear case to the tractor.

MECHANICAL POWER LIFT

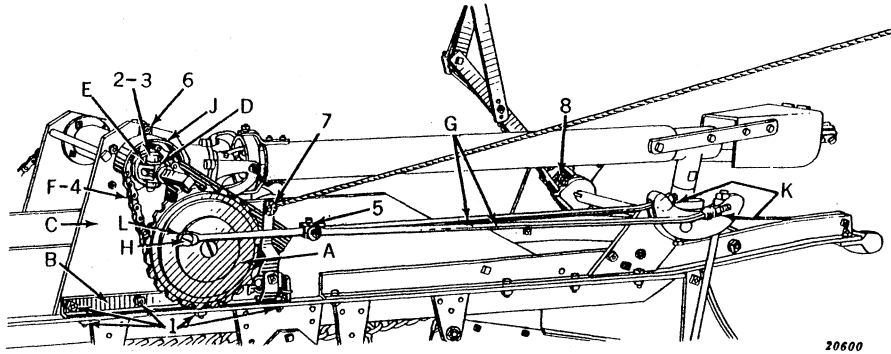


Figure 19

1. (Figure 19) Bolt the power-lift gear case "A" and support "B" to the right-hand frame of the left-hand unit and support plate "C."

2. (Figure 19) Place large washer and square key on right-hand end of left-hand jackshaft. Remove square head set screw from universal joint "D." Before assembling the universal joint "D" onto the jackshaft, slip the lift drive sprocket "E" over the keyed end of the universal joint "D."

3. (Figure 19) Attach the universal joint with sprocket "E" on the right-hand end of the left-hand jackshaft and tighten set screw into the spot on the jackshaft.

4. (Figure 19) Attach power-lift drive chain "F" around the lift and drive sprockets with **THE COTTERED SIDE NEXT TO THE LIFT SUPPORT PLATES. THIS IS IMPORTANT!**

5. (Figure 19) Connect the lift rods "G" as shown.

NOTE: Screw "H" has left-hand thread.

6. (Figure 19) Attach power-lift shields "J" as shown. Hook the two parts of the guard together before attaching to digger.

7. (Figure 19) Fasten the trip rope to the trip arm and through the pulley on the lever of the right-hand unit.

8. (Figure 19) Place the digger levers in transport notch of sector (see Figure 16, page 17). Place the lift in transport position as shown at "L." Then adjust acorn nuts to seat in the socket of lift casting at "K."

9. **IMPORTANT:** Be sure to grease the fitting on the lift case.

IMPORTANT: Read Operating Instructions Page 11 and Operate Lift by Hand before Applying Power to Guard Against Damage to Lift.

RIGHT-HAND POWER DRIVE

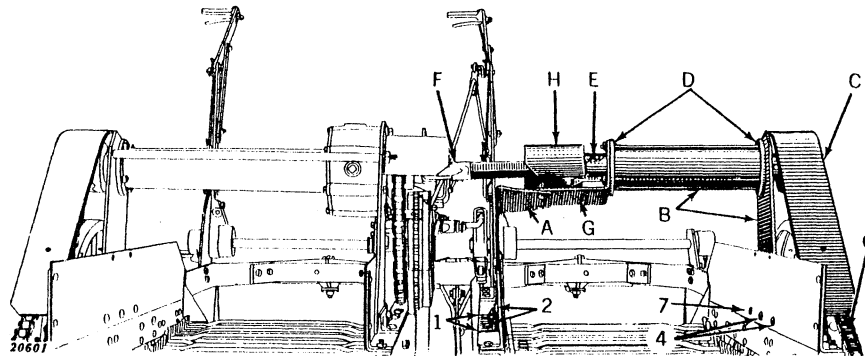


Figure 20

1. (Figure 20) Bolt the support angles to the frame in the same manner as on the left-hand Power Drive as shown in No. 1, Figure 17, page 18.
2. (Figure 20) Bolt the support plate "A" loosely in the two rear holes of the upright section of the angle supports.
3. (Figure 20) With the support plate and tubing assembly "B" on the floor, slide the right-hand jackshaft "C" through the bearing "D" and tubing assembly "B" and attach the universal joint "E" with set screw and key (found in bag) to the left-hand end of the jackshaft. Washers should be on each end of the jackshaft next to the bearings.
4. (Figure 20) Mount the above assembly (No. 3) in the two rear holes of right-hand support angles. Slip the square shaft "F" into the universal joint while mounting. Remove square head set screw from universal joint "E" to permit universal joint to float on square shaft "F."
5. (Figure 20) Bolt plate "G" to plate "A" and attach guard "H" to the front plate bolt.
6. (Figure 20) Attach drive sprockets, chains, guards, and idlers as shown in Figure 17, page 18.
7. (Figure 20) Finish bolting of the vine shields as per No. 3, Figure 17, page 18.

SPECIAL EQUIPMENT

POWR-TROL

NOTE: Diggers ordered for use with Powr-Trol will not be equipped with the mechanical power lift, page 20.

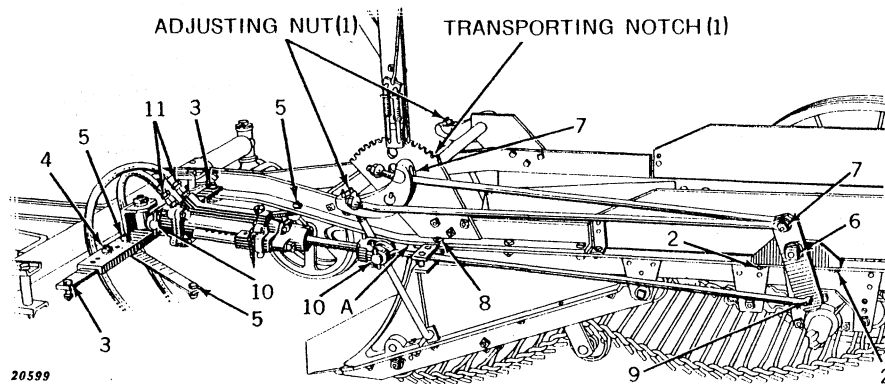


Figure 21

1. (Figure 21) Set the hand levers in the transporting notches of the sector, loosening the adjusting nuts if necessary to just keep the vine shields from contacting the frame at "A."
2. (Figure 21) Mount rocker arm support on the left-hand side of the right-hand digger frame.
3. (Figure 21) Attach extension bars to each digger beam, as indicated, using the longer bolts furnished.
4. (Figure 21) Bolt the cylinder support channel to the extension bars, centering the channel between the digger frames by means of the series of holes provided. This series of holes is provided to accommodate the various spacing of the two digger units.
5. (Figure 21) Bolt the angle brace from the frame to the cylinder support channel.
6. (Figure 21) Attach rocker arm to the rocker arm support with the short end of the arm **UP**.
7. (Figure 21) Insert the lift rods through the hole in the lift arm castings and fasten the lift rods to the rocker arm. Use the pipe spacer and washers furnished to attach the two lift rods to the rocker arm.
8. (Figure 21) Fasten pull rod support to the digger frame angle.
9. (Figure 21) Attach lower pull rod to the lower end of the rocker arm, with washer and cotter pin toward the digger frame.
10. (Figure 21) Connect Powr-Trol cylinder as shown. (See page 12.)

POWER-TROL—Continued

IMPORTANT: Be sure that both stop pins are in place before operating the power control, otherwise the cylinder assembly may be damaged.

Due to the tremendous power of the hydraulic cylinder, great care must be used when first operating the cylinder to be sure there is no binding of the lift parts, otherwise breakage may occur. Carefully raise the shovel with the power control, continually checking to be sure there is no binding of any lifting parts.

TRANSPORT CLEARANCE

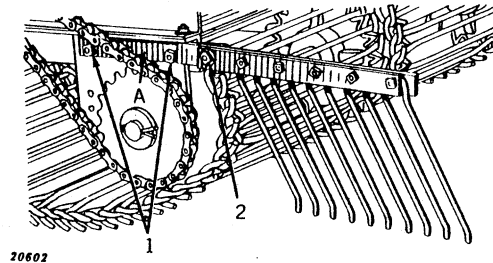
Raise the shovel to the transporting position, as outlined above, and **KEEP THE POWER CONTROL IN THIS POSITION.** Adjust the nuts so that the vine guards just miss the frame of the digger at "G," Figure 21, page 22.

HITCHES

John Deere Diggers can be hitched to a wide variety of tractors and used with either caster wheel or caster roller truck. Setting-up instructions for each hitch bundle are covered by a separate set of instructions shipped with the hitch bundle.

TRACTOR MAKE AND MODEL	HITCH BUNDLE			
	With Direct Hitch (No Truck)	Wt.	With Caster Two-Wheel or Roller Truck	Wt.
John Deere—Models "A" and "B" (All Types) Model "G" Serial No. 43,352 and up.....			H498	60#
I.H.C. Farmall, B, H, and M, also 20, 30 after Conversion.....				
Case—CC, DC, RC and VC.....				
Caterpillar—10, 15, 20, 22, 25, 28, 35, DZ, D4.....				
Cletrac—General E, EH, EHD, and HG.....				
Silver King—600, 660, and 720.....				
Massey-Harris—Challenger, Pacemaker, 101, and 101 Jr.....				
Minneapolis-Moline—U and Z.....				
Oliver—Standard, Row Crop, 60, 70, and 80.....				
Allis-Chalmers—C, UC, and WC.....				
John Deere—Models "A" and "B," Model "G" Serial No. 43,352 and up.....	H1020	217#		
John Deere—Model "G," Serial No. 43,352 and below.....			H1144	61#

ROD DEFLECTORS

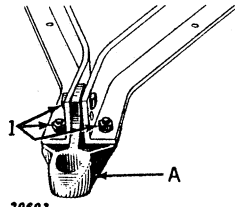


20602

Figure 22

1. (Figure 22) Bolt rod deflector support bar "A" to rear apron shaft hangers.

2. (Figure 22) Bolt rod deflector with bushings to the support bar "A."



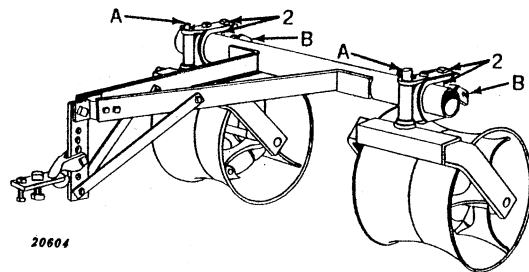
20603

Figure 23

CLEVIS

1. (Figure 23) Bolt clevis "A" to beam ends as shown.

TRUCKS



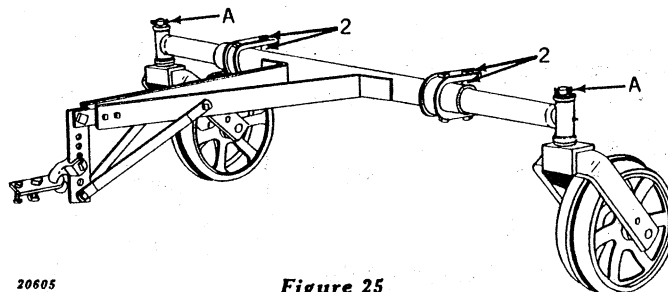
20604

Figure 24

PD106 Caster Roller Front Truck

1. (Figures 24 and 25) Assemble truck as shown. Be sure that there is one washer at both top and bottom of shanks "A." Holes in pipe frames allow adjustment for row widths from 31 to 48 inches.

2. (Figures 24 and 25) Attach truck to clevises "B" using pipe bushing and bolt.



20605

Figure 25

PD105 Two-Wheel Front Truck

3. (Figures 24 and 25) Insert grease fittings in wheels and shanks.

ATTACHMENTS

Good growers realize the importance of attachments for their potato diggers. The wide variety of field conditions necessitates attachments to meet any and all of these conditions.

The grower, with the help of the dealer, can select attachments which will meet his own particular needs. He will then be assured of a clean, carefully-harvested crop without troublesome or costly delays.

STONE GUARD

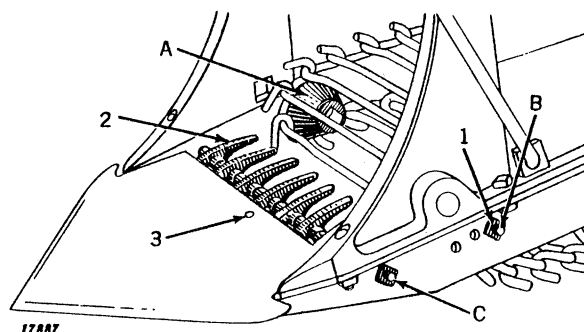


Figure 26

In stony ground this equipment prevents stones from catching between the elevator and the shovel.

1. (Figure 26) Move front elevator rollers "A" to the rear hole "B." (See "Front Elevator Adjustment," page 4, Figure 3.)
2. (Figure 26) Assemble rod through hole "C" and through all fingers of the Stone Guard.
3. (Figure 26) Fasten hinge to center bolt in shovel.

BEAM EXTENSION

Beam extensions are available to extend the beam forward about 8 inches to give more room between the truck wheels and the shovel, when needed. See page 60 for illustration of the parts.

CENTER CLEANING DEVICE

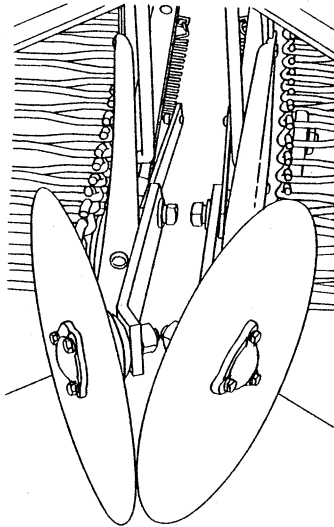


Figure 27

This attachment is designed for use in trashy conditions where the vines are down and tangled or in any condition where there might be a tendency for choking between the digger frames. The two 17-inch coulters are set so that they cut through trash and turn it into the digger elevators. The coulters are held in working position by a pressure spring but are free to float and ride over any obstruction.

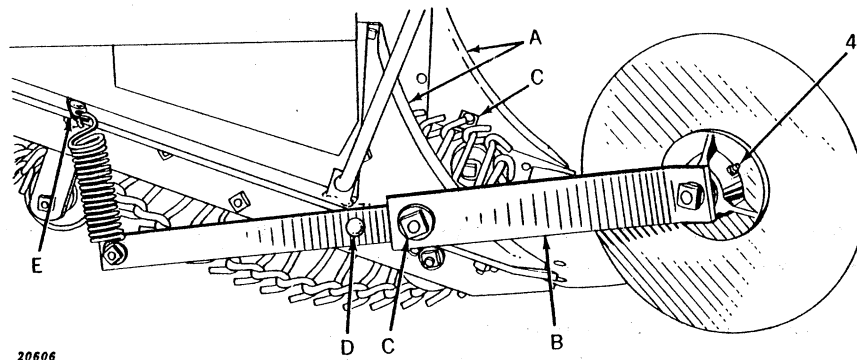


Figure 28

1. (Figure 28) Attach support arms "B" to the large bolt in casting "A" at "C."
2. (Figure 28) The working depth of the coulters is controlled by the bolt and the pipe bushing at "D" in the rear of arm "B."
3. (Figure 28) Attach strap to front section as shown at "E."
4. (Figure 28) Grease Zerk fittings in each hub frequently.

NOTE: Coulters should not touch the shovel.

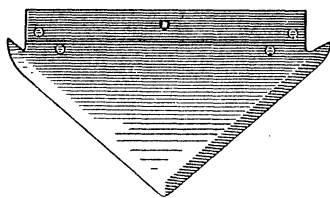
WHEELS

1. Disk-type steel wheels for 6.00x16 rubber tires and tubes are available and are mounted on the axle like the regular steel wheels. For field change-over, higher axle castings (B368 F) should be installed when rubber tires are used.

NOTE: When ordered with rubber tires from the factory, the changes listed above are built into the digger.

2. Steel wheels, 38 inches high, are available for use in high-ridged potato hills and are mounted on the axle the same as regular steel wheels. High-clearance trucks should be used with the 38-inch wheels.

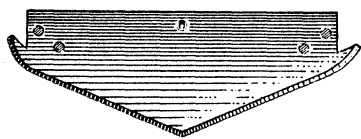
SHOVELS



Regular 14-inch shovel for use in average or heavy soil.

ALB 90 F (24" Digger)

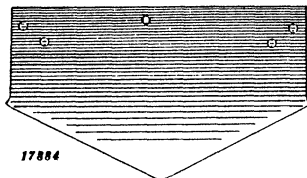
ALB 91 F (26" Digger)



10-inch pointed shovel for use in muck or loose soils. It eliminates the difficulty caused by pushing soil, trash, and potatoes ahead of the shovel. Special polish.

ALB 94 F (24" Digger)

ALB 95 F (26" Digger)



17884

14-inch root shovel.

ALB 70 F (24" Digger)

ALB 71 F (26" Digger)

Figure 29

BEFORE STARTING

1. Pour 1 pint of S.A.E. 140 oil into gear case and replace plug tightly.
2. Lubricate all grease fittings as shown on page 13.
3. Be sure all nuts are tight, chains connected, keys in place, and cotter pins spread.
4. READ CAREFULLY "OPERATING INSTRUCTIONS" PAGES 3 TO 12.
5. With the digger straight behind the tractor, start Power Take-Off and allow the digger to run for several minutes. Check bearings, universal joints and moving parts before starting to dig, to be sure they are assembled properly.
6. **IMPORTANT:** Telescoping drive shafts should be well greased to prevent pressure against the drive clutch. It is very important that these shafts do not bottom on turns for the same reason.

USING THE PARTS LIST

Exploded Views.

From the exploded views of parts on the pages which follow, it is easy to find any part or part number.

The exploded views also show the order of assembly of parts. If it is necessary to disassemble a unit for replacement of parts, be sure parts are reassembled properly for satisfactory performance of your digger.

Key Number.

Each part has been given a key number which is used only to find the part number, description, and quantity. *Do not use the key number when ordering parts.*

Quantity.

If only one of each part is used, the quantity is not shown. If more than one of each part is used, the quantity is shown with the description.

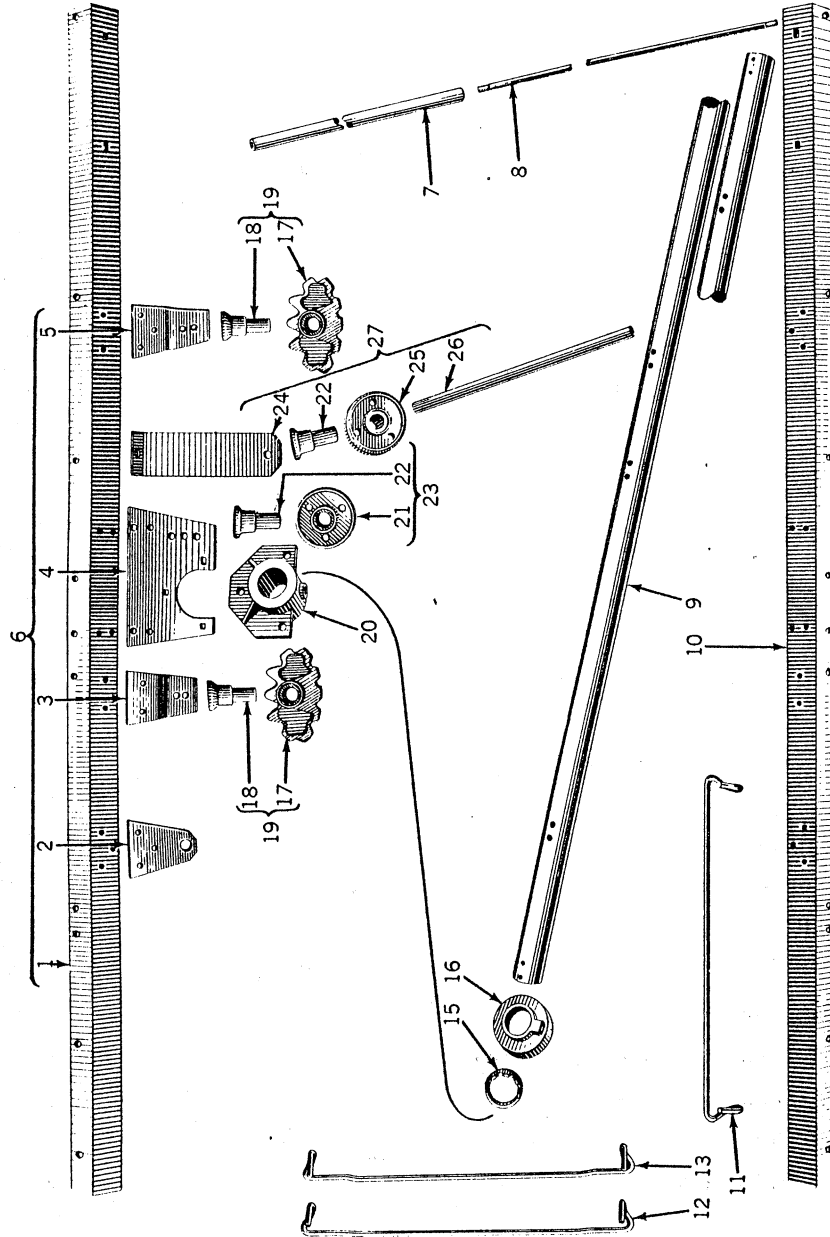
When Purchasing Parts.

When ordering parts from your John Deere dealer, give the following information:

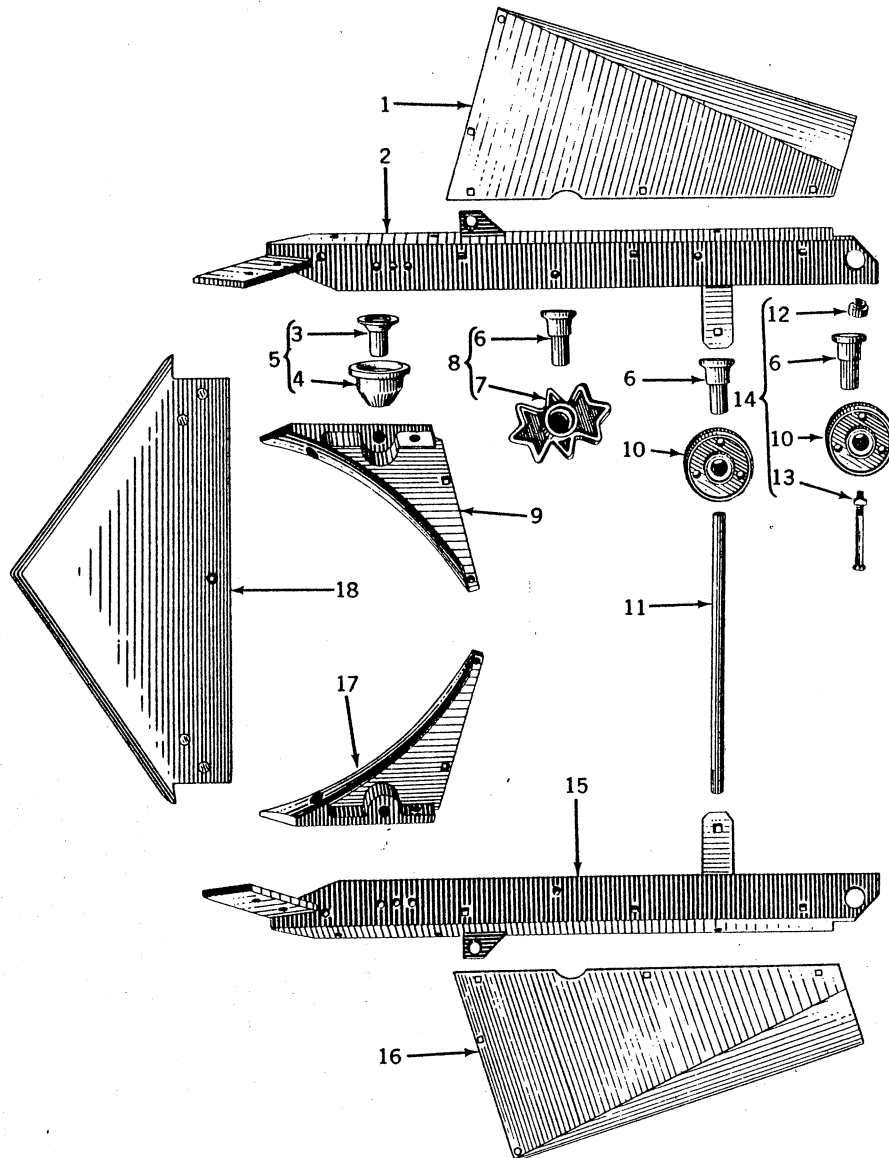
- (a) Number of your digger.
- (b) Part number, description, and quantity wanted.
- (c) Where part numbers are not indicated, as in the case of standard bolts, nuts, washers, cotters, etc., order by size and description.

INDEX TO PARTS LIST

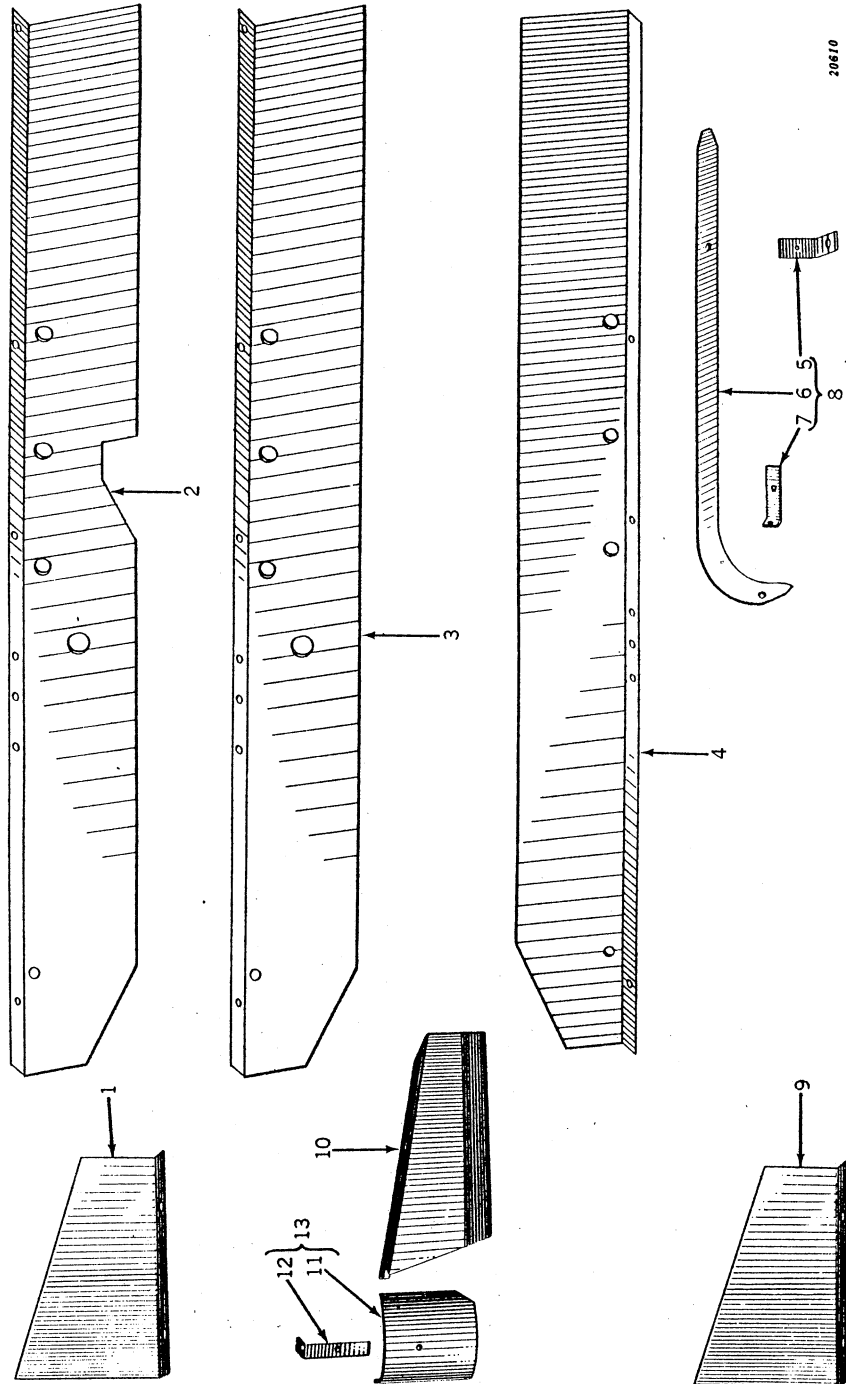
	<i>Page</i>
Beams	36-37
Beam Extension	60
Center Cleaning Device	56-57
Drive Shaft and Slip Clutch	50-51
Drive Shaft Shields	52
Elevator Shaft	38
Fenders, Guards, Shields	34-35
Frame	30-31
Front Section	32-33
Gear Case	44-45
Jackshaft and Universal Joints	49
Lever	39
L.H. Standards and Jackshaft	46-47
Power Lift	40-41
Powr-Trol	58-59
R.H. Standards	48
Rod Deflectors	42
Seat	42
Stone Guard	60
Truck Arches—Wheels and Rollers	54-55
Truck Frames	53
Wheel Equipment	43
Numerical Index	61-63



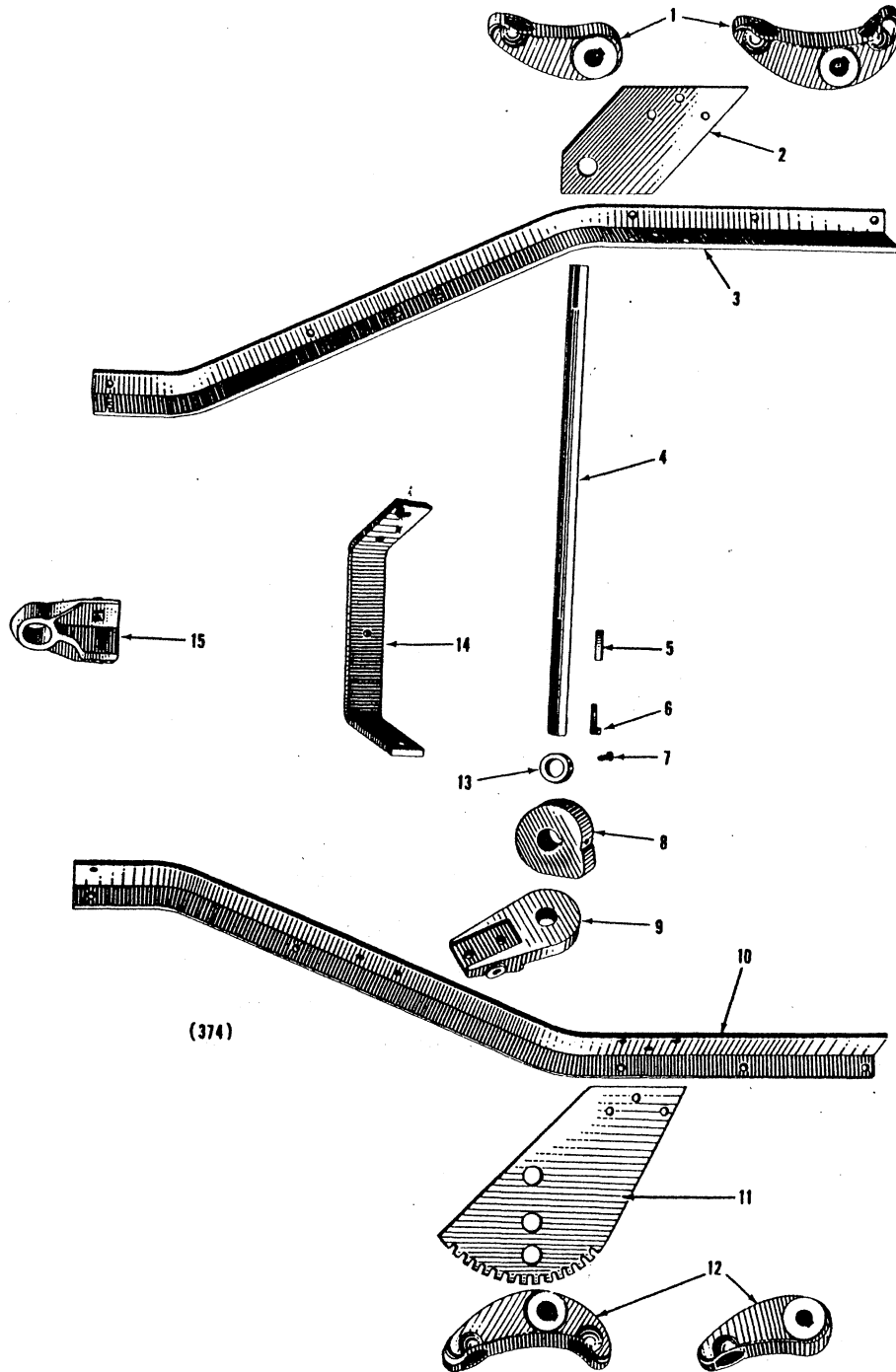
Key	Part No.	Wt. Lbs.	Description	Key	Part No.	Wt. Lbs.	Description
1	LB 172 F	35.8	Frame, Main, Right	14	ALB 24 F	167.7	Rod Elevator, Complete (For 24" Digger) (Sixty-Four Z243F, Sixty-Four Z244F, One Z1042F)
2	LB 102 F	1.5	Support, Front Section (2 used)		ALB 25 F	180.6	Rod Elevator, Complete (For 26" Digger) (Sixty-Four Z764F, Sixty-Four Z765F, One Z1043F)
3	LB 30 F	1.3	Bracket, Agitator, Front (2 used)		ALB 102 F	140.5	Rod Elevator, Complete (For 26" Colorado Special Digger) (Ninety-Five Z1016F)
4	LB 25 F	5.3	Hanger, Axle (2 used)	15	1565 SC	.6	Collar, Axle, Adjustable (2 used)
5	LB 109 F	1.3	Bracket, Rear Agitator (2 used)	16	B 265 F	1.9	Collar, Sand, Axle
6	ALB 126 F	45.2	Frame, Main, Right, Riveted	17	B 284 F	3.8	Agitator, Oblong, Weighted (4 used)
7	ALB 125 F	45.2	Frame, Main, Left, Riveted	18	B 283 F	1.	Bearing, Long (For B284F) (4 used)
	LB 114 F	1.8	Spacer, Rear, 1/2" Pipe, 24-5/8" Long (For 24" Digger)	19	AHB 284 F	5.5	Agitator, Oblong, Weighted, Complete with 1/2" x 4-1/2" Mach. Bolt (4 used)
	LB 113 F	1.9	Spacer, Rear, 1/2" Pipe, 26-5/8" Long (For 26" Digger)	20	LB 276 F	6.3	Axle Casting (For Steel Wheels) (2 used)
8	LB 116 F	1.5	Rod, Spacer, Rear, 1/2" Rd., 26-1/2" Long (For 24" Digger)		B 368 F	7.1	Axle Casting (For Rubber Tires) (2 used)
	LB 115 F	1.6	Rod, Spacer, Rear, 1/2" Rd., 28-1/2" Long (For 26" Digger)	21	B 137A F	2.2	Idler (2 used)
9	LB 94 F	74.8	Axle, for 35" Spacing, 2" Rd., 84" Long (For 24" Digger)	22	B 136A F	.8	Bearing (For B137A F and B366F) (4 used)
	LB 95 F	78.4	Axle, for 39" Spacing, 2" Rd., 88" Long (For 26" Digger)	23	AHB 137A F	3.3	Idler, Complete with 1/2" x 4-1/4", Mach. Bolt (2 used)
10	LB 171 F	35.8	Frame, Main, Left	24	LB 178 F	2.	Bracket, Return Idler (2 used)
11	Z 1016 F	1.5	Link, Rod, Elevator, 7/16" Rod, 25" Long, Straight (For 26" Colorado Special Digger) (95 used)	25	B 366 F	2.4	Idler, Return Elevator (2 used)
	Z 1042 F	1.3	Link, Master, Rod Elevator, 7/16" Rod, 23" Long, Straight (For 24" Digger)	26	(28H 1565 F	1.3	Spacer, Return Idler Bracket (24" Digger)
	Z 1043 F	1.4	Link, Master, Rod Elevator, 7/16" Rod, 25" Long, Straight (For 26" Digger)		28H 1568 F	1.4	Spacer, Return Idler Bracket (26" Digger)
12	Z 244 F	1.3	Link, Rod Elevator, 7/16" Rod, 23" Long, Projecting Down (For 24" Digger)	27	ALB 136 F	10.9	Return Elevator Idler Assembly, with 1/2" x 25-1/2" Cge. Bolt (24" Digger)
	Z 765 F	1.4	Link, Rod Elevator, 7/16" Rod, 25" Long, Projecting Down (For 26" Digger) (64 used)		ALB 137 F	11.	Return Elevator Idler Assembly, with 1/2" x 27-1/2" Cge. Bolt (26" Digger)
13	Z 243 F	1.3	Link, Rod Elevator, 7/16" Rod, 23" Long, Projecting Up (For 24" Digger) (64 used)				
	Z 764 F	1.4	Link, Rod Elevator, 7/16" Rod, 25" Long, Projecting Down (For 26" Digger) (64 used)				



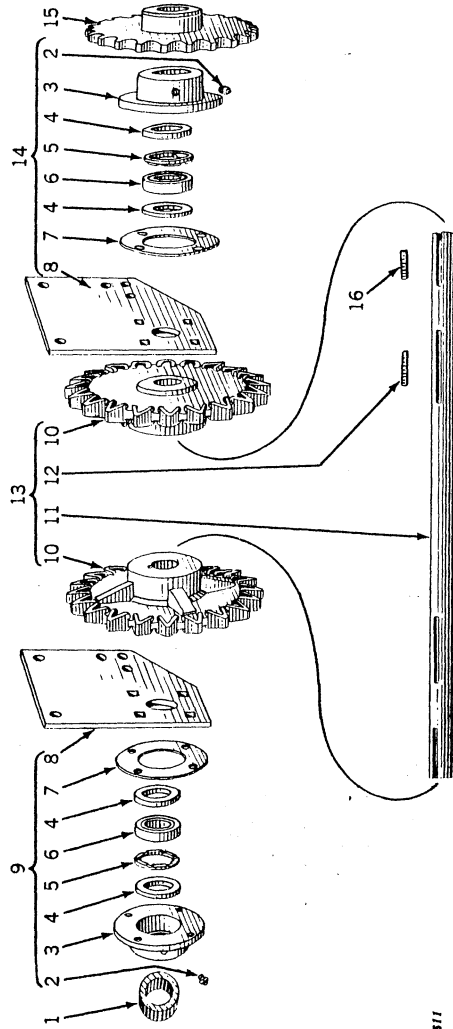
Key	Part No.	Wt. Lbs.	Description
1	LB 186 F	3.6	Shield, Vine, Lower, Right
2	ALB 118 F	22.8	Front Section, Right Side, Welded
3	B 390 F	1.1	Bearing, Cone Roller (2 used)
4	B 389 F	2.7	Roller, Cone (2 used)
5	B 391 F	4.2	Roller, Cone, Assembly with 1/2" x 4" Mach. Bolt (2 used)
6	B 136A F	.8	Bearing (For B138B F, B136A F) (6 used)
7	B 138B F	2.5	Wheel, Oblong, Short (2 used)
8	AHB 138B F	3.6	Wheel, Oblong, Short, Assembly, with 1/2" x 4-1/4" Mach. Bolt (2 used)
9	B 382 F	9.5	Nose, Iron, Right
10	B 366 F	2.4	Roller, Plain (4 used)
11	28H 1565 F	1.3	Spacer, Return Idler, 1/2" Pipe, 17-7/8" Long (For 24" Digger)
	28H 1568 F	1.4	Spacer, Return Idler, 1/2" Pipe, 19-7/8" Long (For 26" Digger)
12	LB 117 F	.3	Bushing, Front Section (2 used)
13	7H 1051 F	.....	Bolt, Mach., Hardened, 1/2" x 5", less Nut (2 used)
	LB 289 F	.....	Nut, Elastic Stop, 1/2" (2 used)
14	ALB 121 F	3.6	Roller, at Rear of Front Section (2 used)
15	ALB 117 F	22.8	Front Section, Left Side, Welded
16	LB 185 F	3.6	Shield, Vine, Lower, Left
17	B 381 F	9.5	Nose, Iron, Left
18	ALB 90 F	16.2	Shovel, 14", with Extended Ears (Regular) (For 24" Digger)
	ALB 91 F	17.2	Shovel, 14", with Extended Ears (Regular) (For 26" Digger)
	ALB 70 F	18.3	Shovel, Root, 14" (For 24" Digger)
	ALB 71 F	18.9	Shovel, Root, 14" (For 26" Digger)
	ALB 94 F	12.8	Shovel, 10", with Special Polish (For 24" Digger)
	ALB 95 F	13.8	Shovel, 10", with Special Polish (For 26" Digger)



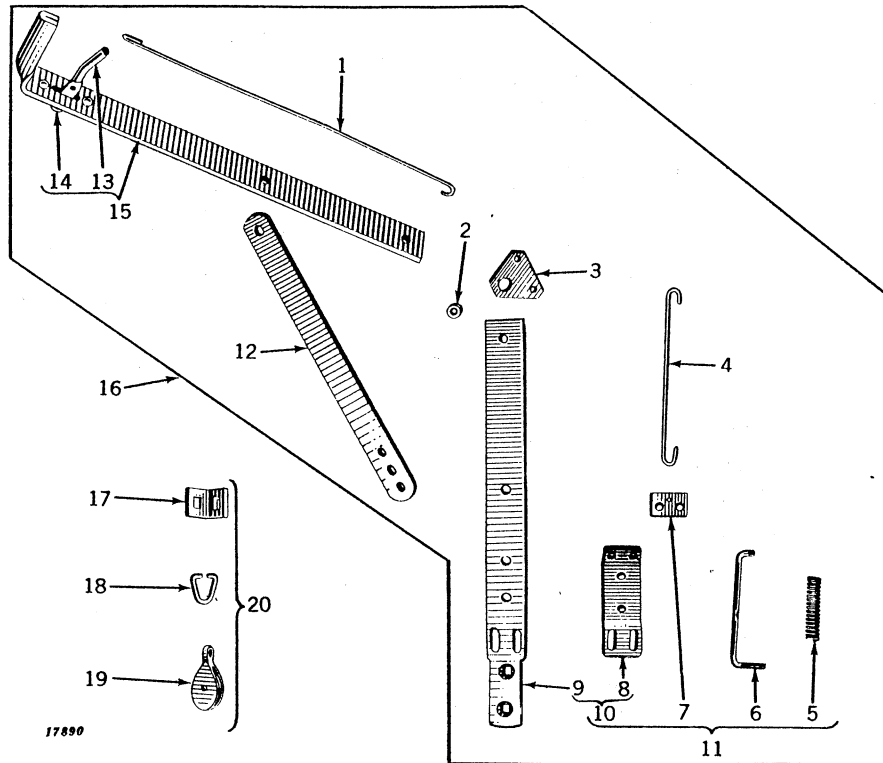
Key	Part No.	Wt. Lbs.	Description
1	LB 184 F	2.2	Shield, Vine, Upper Right
2	LB 310 F	19.2	Fender, Vine, Right, Notched for Power Lift
3	LB 308 F	19.2	Fender, Vine, Right
4	LB 307 F	19.2	Fender, Vine, Left
5	LB 194 F	.4	Bracket, Lower
6	LB 192 F	2.2	Guard, Drive Chain
7	LB 193 F	.2	Bracket, Upper
8	ALB 131 F	2.8	Guard Assembly, Chain Drive (2 used)
9	LB 183 F	2.2	Shield, Vine, Upper, Left
10	LB 197 F	2.2	Guard, Drive Chain, Power Lift
11	LB 195 F	.94	Guard, Sprocket, Power Lift
12	LB 196 F	.32	Bracket, Sprocket Guard
13	ALB 132 F	1.2	Guard, Sprocket, Power Lift, with Bracket



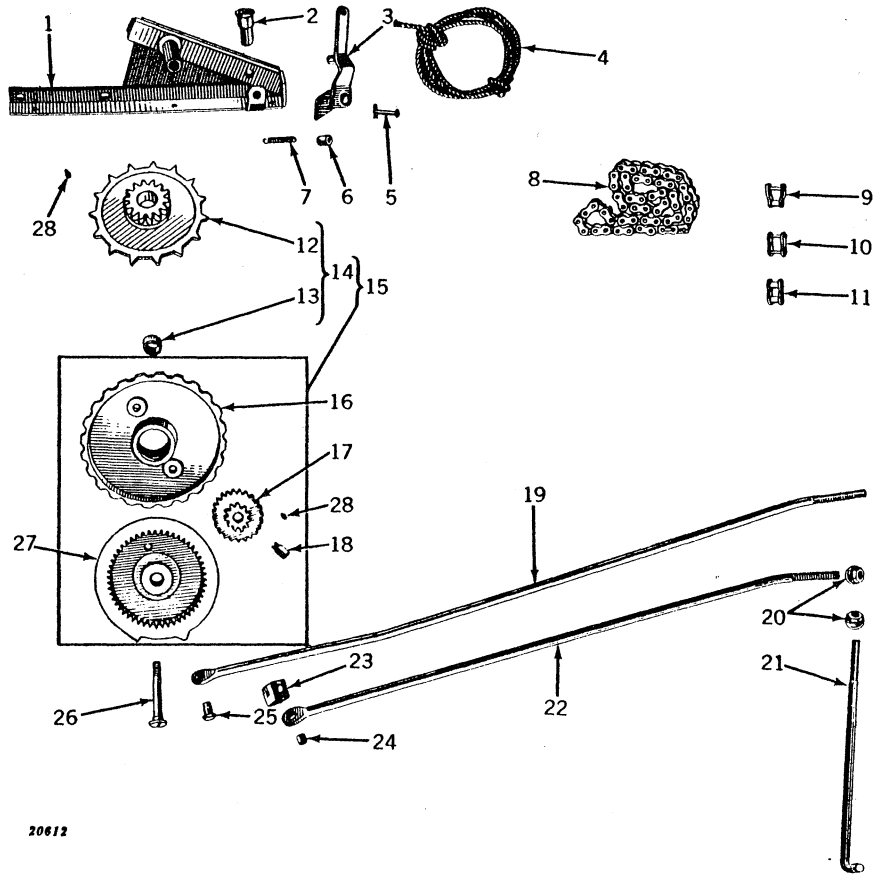
Key	Part No.	Wt. Lbs.	Description
1	(B 378 F	9.3	Arm, Lift, Right, on L.H. Frame (Double End)
	(B 380 F	8.1	Arm, Lift, Right, on R.H. Frame
2	LB 69 F	5.	Plate, Shaft, Lifting
3	(LB 6 F	26.9	Beam, Right, for 24" Digger
	(LB 8 F	27.1	Beam, Right, for 26" Digger
4	(LB 14 F	10.4	Shaft, Lifting, 1-1/4", 30" Long, for 24" Digger
	(LB 15 F	11.1	Shaft, Lifting, 1-1/4", 32" Long, for 26" Digger
5	LB 49 F	.05	Key, Shaft, 5/16", 1-3/4" Long, not Tapered
6	Z 98K F	.1	Key, Shaft, with Head, 5/16", 1-7/8" Long (2 used)
7	E 640 F	.....	Screw, Set, Low Head Cup Point, 3/8" x 5/8", with Drilled Head (2 used)
8	B 316 F	4.8	Dog, Shaft, Lift
9	B 315 F	6.2	Foot, Lever
10	(LB 5 F	26.9	Beam, Left, for 24" Digger
	(LB 7 F	27.1	Beam, Left, for 26" Digger
11	LB 70 F	11.1	Plate, Shaft, Lifting and Sector
12	(B 377 F	9.3	Arm, Lift, Left, on R.H. Frame (Double End)
	(B 379 F	8.1	Arm, Lift, Left, on L.H. Frame
13	B 269 F	.33	Collar, Spacing, Flanged, on L.H. Frame (2 used)
14	(LB 9 F	7.7	Brace, Beam, for 24" Digger
	(LB 10 F	8.	Brace, Beam, for 26" Digger
15	B 335 F	6.3	Hitch Casting, with Bolts



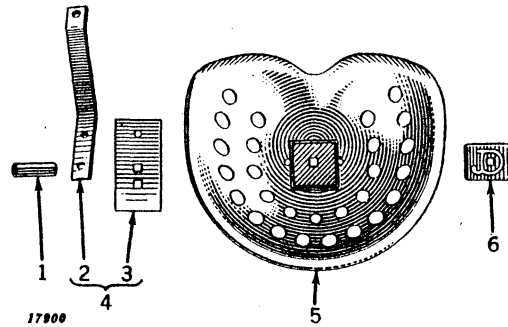
Key	Part No.	Wt. Lbs.	Description	Key	Part No.	Wt. Lbs.	Description
1	B 385 F	.8	Collar, Elevator Shaft	13	(ALB 123 F	44.6	Tapered (2 used)
2	JD 7759		Fitting, Grease, Straight, 1/8"		Shaft, Elevator, Assembly (24"		Digger)
3	B 376 F	3.9	Housing, Ball Bearing (2 used)		Shaft, Elevator, Assembly (26"		Digger)
4	LB 182 F		Washer, Felt (4 used)		Shaft, Elevator, Assembly, Colo-		rado Special (26" Digger)
5	B 278 F	.1	Spacer, Ball Bearing (2 used)		Bearing, Left, Complete		
6	LB 181 F	.6	Bearing, Ball, Elevator Shaft (2	14	ALB 129 F	13.6	Sprocket, Drive, Elevator, 18-
			used)	15	E 1037 F	7.4	Tooth
7	LB 39 F	.02	Gasket, Ball Bearing, Housing		E 1038 F	10.4	Sprocket, Drive, Elevator, 22-
8	LB 188 F	9.	Hanger (2 used)		E 1039 F	13.9	Sprocket, Drive, Elevator, 26-
9	ALB 130 F	13.6	Bearing, Right, Complete		E 1045 F	16.9	Sprocket, Drive, Elevator, 29-
10	B 383 F	21.	Sprocket, Elevator (2 used)		E 1046 F	20.5	Sprocket, Drive, Elevator, 33-
	B 384 F	20.5	Sprocket, Elevator, Colorado Spec-		Z 98L F	.04	Key, Shaft, 5/16" Sq. x 1-1/2" Long
			ial (2 used)				
11	LB 179 F	16.5	Shaft, Elevator, 1-1/2" Rd., 32-7/8"				
			Long (24" Digger)				
	LB 180 F	17.5	Shaft, Elevator, 1-1/2" Rd., 34-7/8"				
			Long (26" Digger)				
12	Z 98M F	.06	Key, Shaft, 5/16" Sq. x 2" Long,				



Key	Part No.	Wt. Lbs.	Description
1	LB 108 F	.2	Rod, Pull, Long
2	28H 1517 F	.01	Bushing, Bell Crank, 3/8" Pipe, 1/4" Long
3	LB 57 F	.2	Crank, Bell
4	LB 124 F	.1	Rod, Pull, Short
5	1293 A	.06	Spring (2 used)
6	LB 123 F	.3	Pawl, Lever (2 used)
7	LB 125 F	.1	Link, Lever Pawl
8	LB 122 F	.8	Case, Pawl
9	LB 121 F	5.6	Foot End
10	ALB 67 F	6.4	Foot End with Pawl Case
11	ALB 68 F	7.1	Lever Foot End, Complete
12	LB 56 F	2.6	Brace
13	S 409 F	.3	Grip, Hand
14	16117 A	.06	Box, Trigger
15	ALB 63 F	5.4	Lever End with Grip
16	ALB 66 F	15.6	Double Pawl Lever, Complete
17	E 952 F	.3	Bracket, Angle
18	AZ 3 F	.04	Link
19	P 38	.3	Pulley, Trip Rope
20	E 1106 F	.7	Pulley, Trip Rope, with Bracket

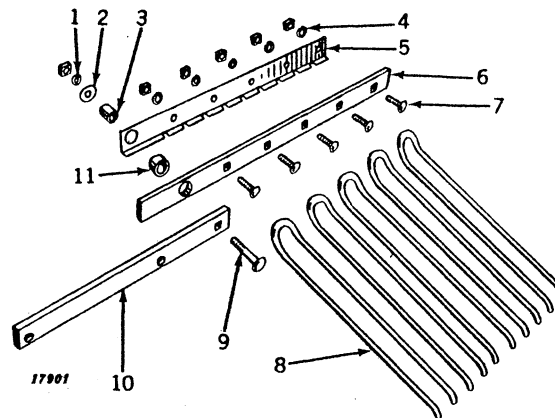


Key	Part No.	Wt. Lbs.	Description
1	ALB 79 F	20.5	Support, Plate Assembly, Power Lift
2	B 344 F	.69	Spindle, Lever, Trip
3	B 343 F	1.8	Lever, Trip
4	LB 247 F	.5	Rope, Trip, 3/8" x 13' Long
5	LB 154 F	.07	Pin, 3/8" x 2", with Cotter Pin (For Trip Lever Roller)
6	LB 146 F	.13	Roller, Lever, Trip, 7/8" x 29/32" Long
7	CJ 74 F	.05	Spring, Lever, Trip
8	AB 1288 H	4.2	Chain, RC60, 3/4" Pitch, 50 Links
	LB 300 F	4.2	Chain, Drive, Power Lift, 38-1/4" Long, RC60, 3/4" Pitch (Used with ALB218F Sun Gear) (Sub. One AB1288H and One B5321H)
9	B 5321 H	.06	Link, Coupler, Offset (For RC60 Roller Chain)
10	B 5235 H	.05	Link, Coupler, Plain (For RC60 Roller Chain)
11	B 5234 H	.06	Link, Roller (For RC60 Roller Chain)
12	B 432 F	5.9	Gear, Sun, and Sprocket (Sub. ALB218F)
13	LB 138 F	.16	Bushing, Bronze (2 used)
14	ALB 218 F	6.2	Gear, Sun, and Sprocket, with Bushings (For RC60 Chain)
15	ALB 219 F	42.	Gear, Planet, with Housing Assembly (For RC60 Chain)
16	B 341 F	15.	Housing, Planet Gear
17	B 340 F	1.9	Gear, Planet (2 used)
18	LB 301 F	.25	Bearing, Planet Gear, without Grease Duct
19	LB 144 F	7.3	Rod, Lift, Long
20	B 346 F	.34	Nut, Adjusting, Lift Rod (6 used)
21	LB 170 F	2.6	Rod, Lift (For Front Section) (4 used)
22	LB 143 F	5.8	Rod, Lift, Short (For R.H. Digger)
23	LB 145 F	.87	Block, Rod, Lift
24	LB 81 F	.04	Bushing (For Short Lift Rod)
25	LB 161 F	.5	Screw, Crank, Power Lift
26	LB 140 F	1.	Bolt, Bearing, Power Lift
27	B 355 F	17.	Plate, Gear, Internal
28	JD 7759	.....	Fitting, Grease, Straight, 1/8" (2 used)

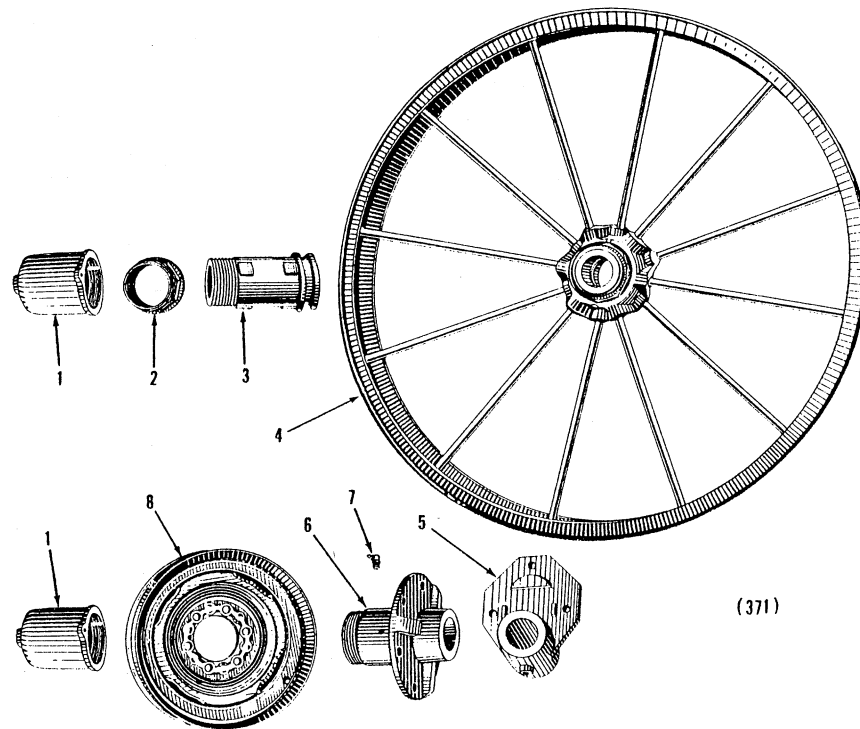


Key	Part No.	Wt. Lbs.	Description
1	28H 1540 F	.3	Spacer, Seat, 3/8" Pipe, 5-1/4" Long
2	LB 59 F	1.4	Support, Seat
3	E 239 F	.9	Plate, Seat
4	ALB 33 F	2.3	Support, Seat, with Plate
5	JD 54 B	4.	Seat, Steel
6	JD 55 B	.2	Plate, Seat, Reinforcement

ROD DEFLECTORS



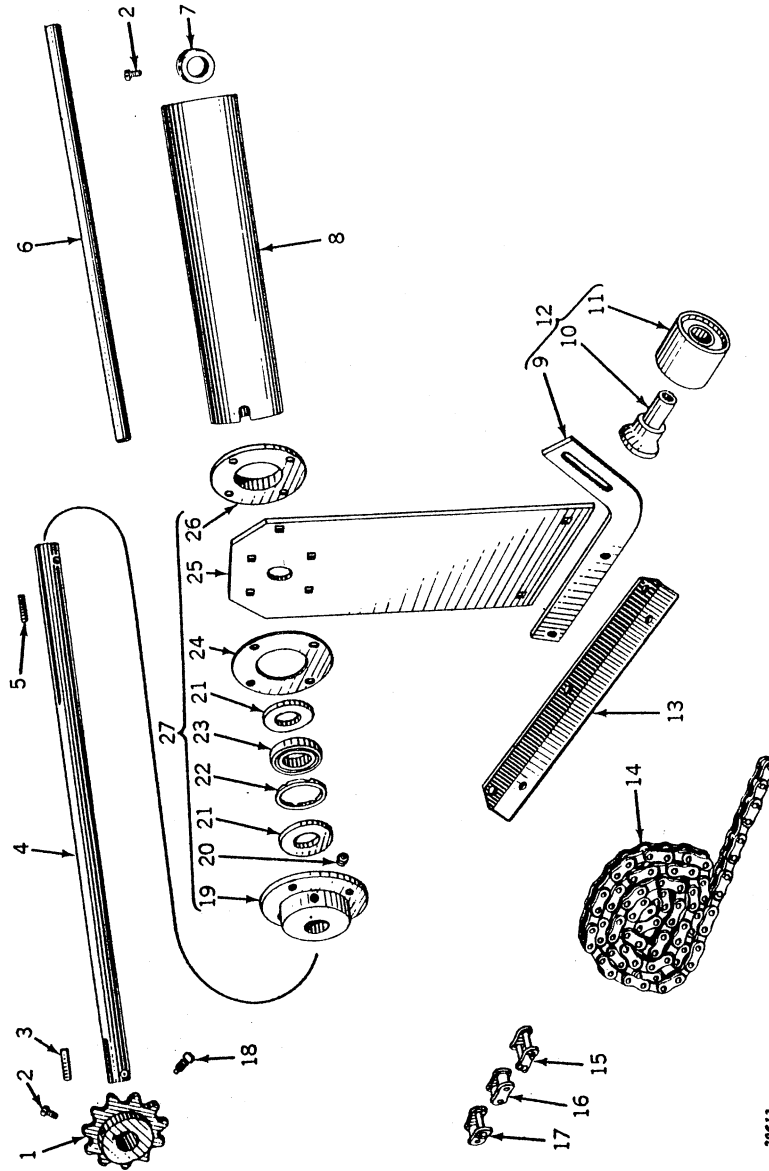
Key	Part No.	Wt. Lbs.	Description
1	12H 12 R	.....	Washer, Lock, 7/16"
2	24H 381 A	.....	Washer, Wrought, No. 14, 1-1/4" x 1/2"
3	28H 187 F	.04	Bushing, 3/8" Pipe, 15/16" Long
4	12H 11 R	.....	Washer, Lock, 3/8" (5 used)
5	LB 313 F	1.2	Clamp, Tine, Left
6	LB 314 F	1.2	Clamp, Tine, Right
7	LB 312 F	3.3	Bar, Tine
8	LB 311 F	1.2	Bolt, Cge., 3/8" x 1-1/4", with Nut (5 used)
9	2H 531 F	.....	Tine (5 used)
10	LB 87 F	2.5	Bolt, Cge., Short Neck, 7/16" x 2", with Nut
11	28H 1572 F	.04	Bar, Support
..	ALB 223 F	13.5	Spacer, 3/4" Pipe, 3/8" Long
..	ALB 224 F	13.5	Deflector, Rod, Left, Complete
..	ALB 224 F	13.5	Deflector, Rod, Right, Complete



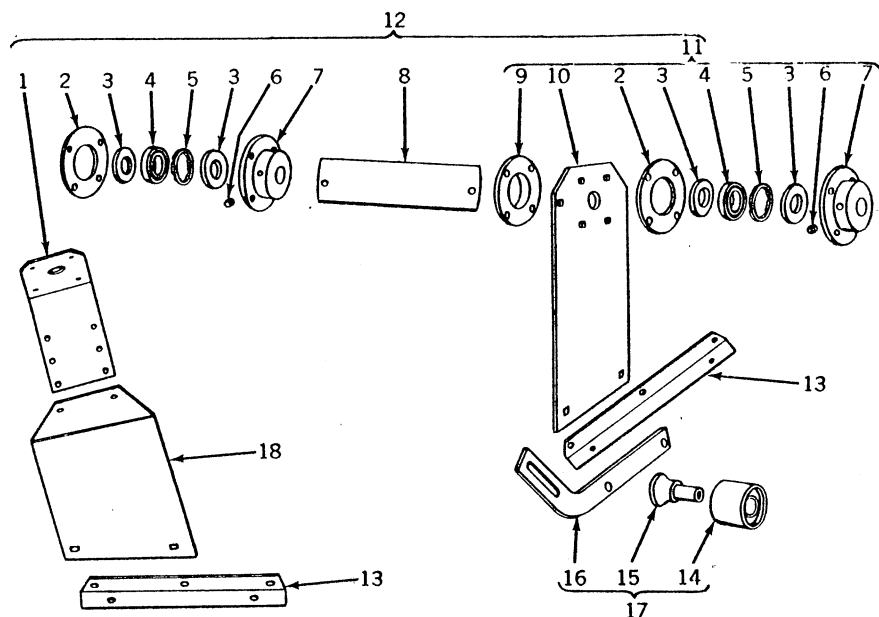
Key	Part No.	Wt. Lbs.	Description
1	B 304 F	2.1	Cap, Wheel
2	JD 2411 C	.7	Nut, Retaining, Wheel
3	JD 2133 D	5.	Box for JD712F and JD720F
4	JD 712 F	55.5	Wheel, Steel, 32" Dia., 4" Flanged and Grooved Tire
	JD 720 F	65.	Wheel, Steel, 38" Dia., 4" Flanged and Grooved Tire
5	B 368 F	7.1	Axle Casting, High (Used with Rubber Tires)
6	B 350 F	12.6	Box, Wheel, for Rubber Tire Wheel
7	JD 7760	.....	Fitting, Grease, 1/8", Angle
8	JD 638 E	18.5	Wheel, Steel, for Rubber Tires



Key	Part No.	Wt. Lbs.	Description	Key	Part No.	Wt. Lbs.	Description
1	15H 283 R	.1	Plug, Gear Case, Pipe, 3/4", Std.	17	JD 7665 R	.8	Bearing, Ball, Rear, Pinion Shaft
2	(E 1013 F	13.3	Case, Gear	18	E 1117 F	.5	Spacer, Ball Bearing, Pinion Shaft
	(E 1180 F	70.7	Case, Gear, Complete, with Ball Bearing, Gears, and Support Plate	19	JD 7693 F	.8	Bearing, Ball, Front, Pinion Shaft
3	E 1176 F	15.8	Plate, Support, Gear Case	20	E 1115 F	3.7	Shaft, Pinion
4	E 1119 F	.....	Gasket, Side Plate (3 used)	21	E 1109 F	5.8	Shaft, Pinion, Assembly
5	E 1187 F	.....	Washer, Felt, 1/8" x 3/8" (6 used)	22	E 1118 F	3.9	Gasket, Front Plate
6	E 1015 F	6.4	Plate, Side, Gear Case (2 used)	23	E 1304 F	.....	Joint, Universal
7	E 1122 F	.2	Seal, Oil, Side (2 used)	24	E 1017 F	1.3	Bracket, Guard, Universal Joint (2 used)
8	JD 7692 F	.9	Bearing, Ball, Jackshaft Sleeve (2 used)	25	28H 1521 F	1.8	Bushing, Guard Tube, 3/8" Pipe, 9/16", Long (4 used)
9	E 1112 F	7.5	Plate, Side, Gear Case, Assembly (2 used)	26	E 728 F	1.6	Ring, Universal Joint Guard
10	E 1114 F	4.7	Gear, Bevel, 38-Tooth	27	E 640 F	.06	Screw, Set, Cup Point, Low Head with Drilled Head, 3/8" x 5/8" (2 used)
11	E 1116 F	3.8	Sleeve, Jackshaft	28	JD 7760	.06	Fitting, Grease, 67°, 1/8"
12	E 98L F	.04	Key, Shaft, 5/16" Sq. x 1-1/2" Long	29	E 1014 F	1.6	Plate, Front, Gear Case
13	E 1110 F	8.5	Sleeve, Jackshaft, Assembly	30	E 1121 F	.1	Seal, Oil, Front
14	E 1123 F	.1	Nut, Lock, Pinion	31	E 1111 F	1.7	Plate, Front, Gear Case, Assembly
15	E 1124 F	.02	Washer, Lock, Pinion Nut	32	Z 98B F	.03	Key, Shaft, 1/4" Sq. x 1-1/2" Long
16	E 1113 F	1.5	Pinion, Bevel, 18-Tooth	33	E 1120 F	.02	Key, Pinion, 1/4" Sq. x 1-1/4" Long

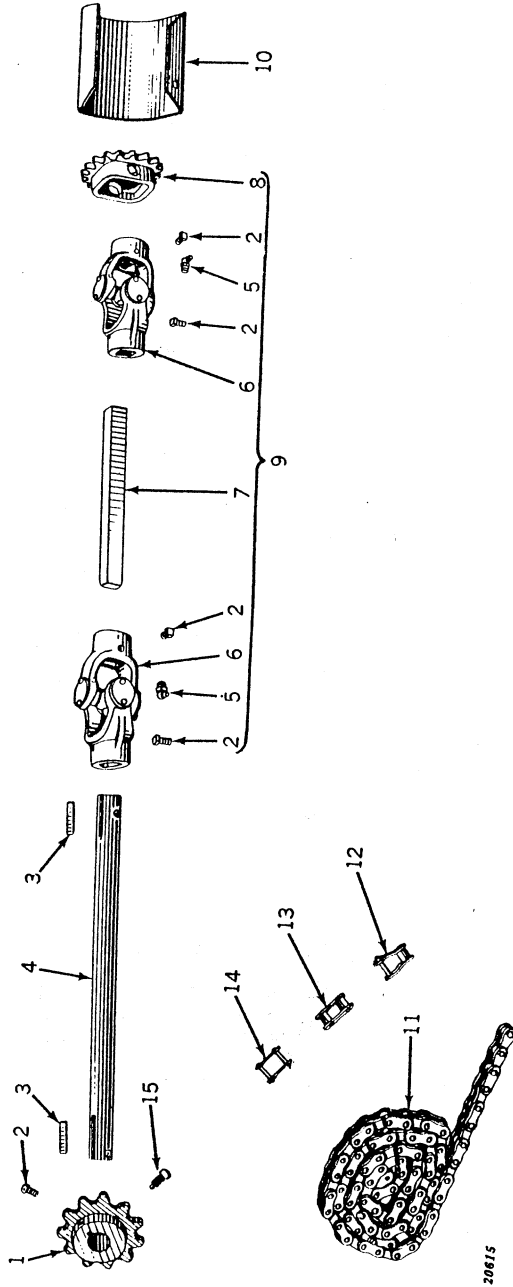


Key	Part No.	Wt. Lbs.	Description	Key	Part No.	Wt. Lbs.	Description
1	(E) 1036 F	3.6	Sprocket, Jackshaft, 11-Tooth	10	B 136A F	.8	Bearing
	(E) 1040 F	3.8	Sprocket, Jackshaft, 11-Tooth, for Double Drive on Colorado Special	11	1022 F	2.2	Idler
2	(E) 640 F	.06	Screw, Set, Cup Point, Low Hd., with Drilled Hd., 3/8" x 5/8" (2 used)	12	E 1254 F	6.2	Idler Assembly
3	Z 98L F	.04	Key, Shaft, 5/16" Sq. x 1-1/2" Long	13	E 1083 F	3.8	Angle, Foot Support Plate
4	(E) 1235 F	10.6	Jackshaft (For 24" Digger) 1-1/4", 30-5/8" Long	14	E 1289 F	13.7	Chain, Elevator Drive, 90" Long (65 Riveted, 3 Plain Coupler, 2 Roller, 2 Offset Coupler Links)
	(E) 1236 F	11.3	Jackshaft (For 26" Digger) 1-1/4", 32-5/8" Long				(SS127 Roller Chain)
5	(E) 1159 F	.07	Key, Jackshaft, 1/4" x 5/16", 3" Long	15	E 1290 F	.2	Link, Coupler, Plain
6	(E) 1130 F	1.7	Spreader, Bearing Plate (For 24" Digger) 1/2" Pipe, 23-3/4" Long	16	E 1291 F	.2	Link, Roller
	(E) 1131 F	1.8	Spreader, Bearing Plate (For 26" Digger) 1/2" Pipe, 25-3/4" Long	17	E 1292 F	.2	Link, Coupler, Offset
7	B 269 F	.4	Collar, Flanged (On Jackshaft)	18	E 305 F	.....	Screw, Set, Dog Point, Special, with Drilled Hd., 7/16" x 1"
8	(E) 1141 F	3.6	Guard Tube, Jackshaft (For 24" Digger) 18-1/2" Long				Housing, Ball Bearing
	(E) 1142 F	3.6	Guard Tube, Jackshaft (For 26" Digger) 20-1/2" Long	19	B 277 F	3.9	Fitting, Grease, Straight, 1/8"
9	(E) 1330 F	3.5	Bracket, Idler	20	JD 7759	.....	Washer, Felt (2 used)
				21	LB 40 F	.05	Spacer, Ball Bearing
				22	B 278 F	.1	Bearing, Ball, Jackshaft
				23	LB 38 F	.7	Gasket, Housing, Bearing
				24	LB 39 F	.05	Plate, Jackshaft Bearing
				25	E 1175 F	14.6	Support, Jackshaft Guard
				26	E 1042 F	2.1	Plate, Jackshaft Bearing, Assembly
				27	E 1245 F	21.4	

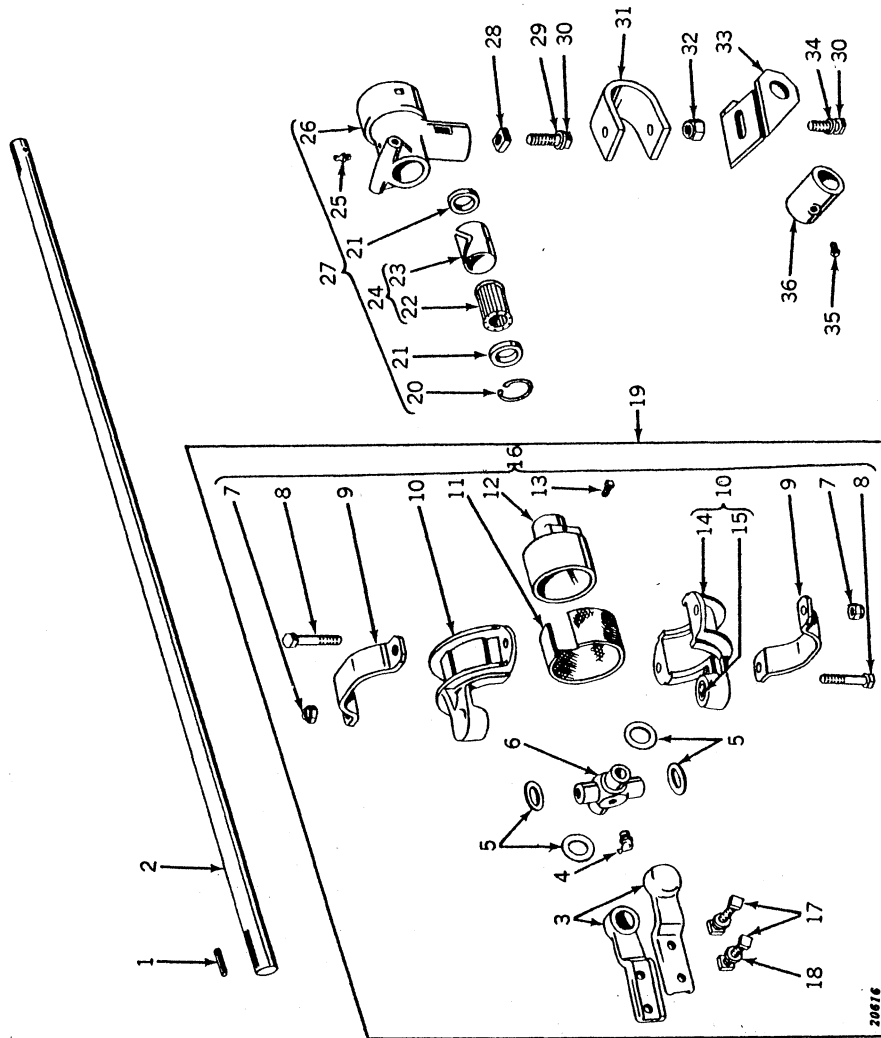


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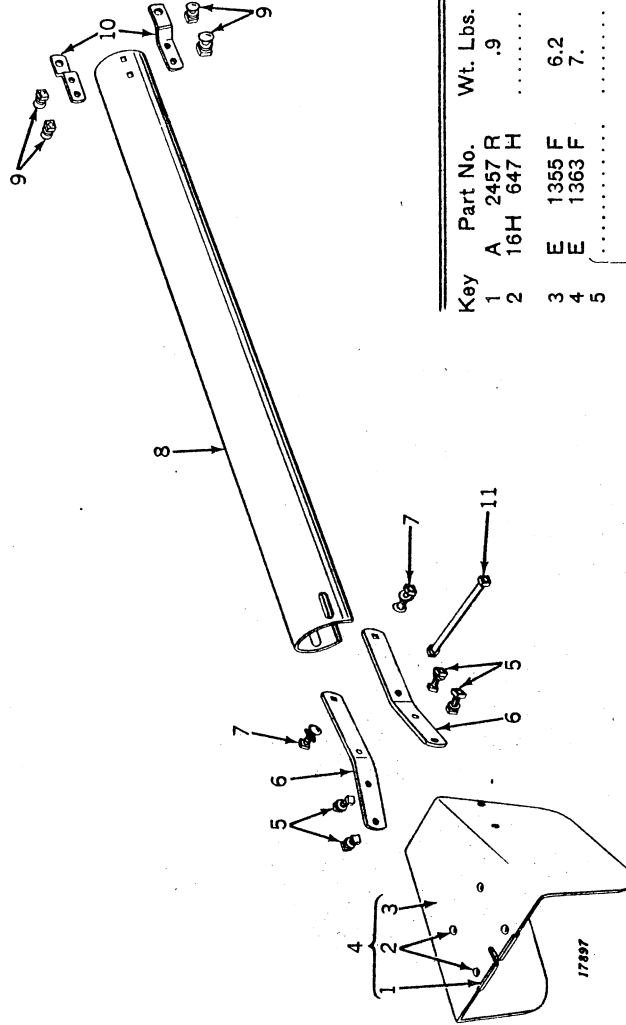
Key	Part No.	Wt. Lbs.	Description
1	E 1127 F	4.9	Support, Bearing, Short Jackshaft
2	LB 39 F	.02	Gasket, Housing, Bearing (2 used)
3	LB 40 F	.05	Washer, Felt, Housing (4 used)
4	LB 38 F	.7	Bearing, Ball, Jackshaft (2 used)
5	B 278 F	.1	Spacer, Ball Bearing (2 used)
6	JD 7759	...	Fitting, Grease, Straight, 1/8" (2 used)
7	B 277 F	3.9	Housing, Ball Bearing (2 used)
8	E 1143 F	2.9	Tube, Guard, Short Jackshaft
9	E 1042 F	2.1	Support, Jackshaft Guard
10	E 1175 F	14.6	Plate, Jackshaft Bearing
11	E 1245 F	21.4	Plate, Jackshaft Bearing Assembly
12	E 1248 F	33.5	Supports, Bearing, Short Jackshaft, Complete
13	E 1083 F	3.8	Angle, Foot, Support Plate (2 used)
14	E 1022 F	2.2	Idler
15	B 136A F	.8	Bearing
16	E 1330 F	3.5	Bracket, Idler
17	E 1254 F	6.2	Idler Assembly
18	E 1207 F	14.6	Plate, Bearing Support, Short Jackshaft



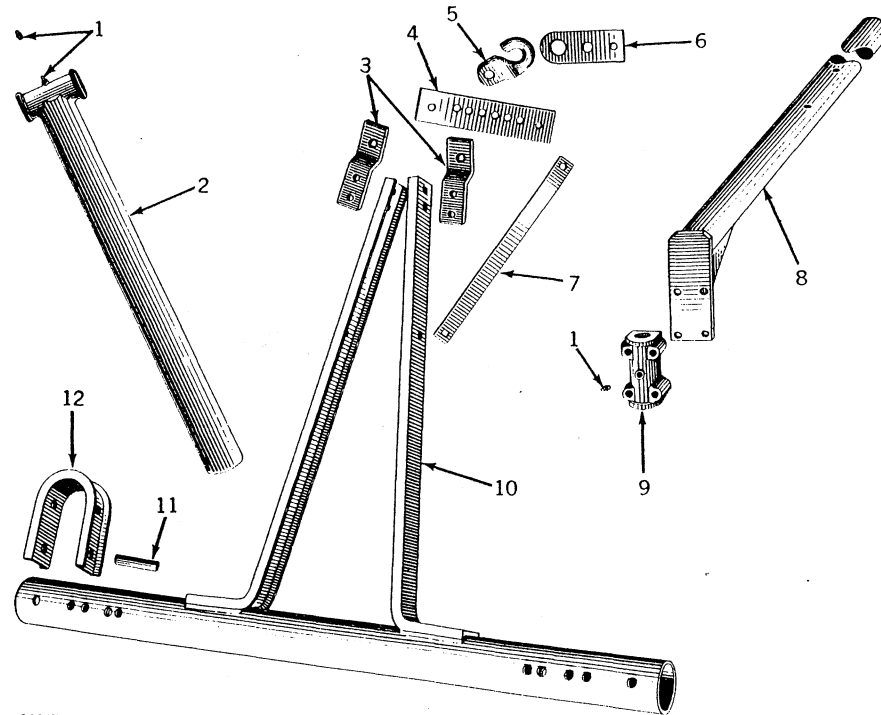
Key	Part No.	Wt. Lbs.	Description	Key	Part No.	Wt. Lbs.	Description
1	E 1036 F	3.6	Sprocket, Jackshaft, 11-Tooth	9	E 1313 F	10.6	Shaft, Sq., 9-3/8", with Universal
2	E 640 F	.....	Screw, Set, Cup Point, Low Hd., 3/8" x 5/8" (5 used)		E 1314 F	11.7	Joints, for 35" Spread
3	Z 98L F	.04	Key, Shaft, 5/16", 1-1/2" Long (2 used)		E 1315 F	12.3	Shaft, Sq., 13-3/8", with Universal
4	E 1237 F	7.	Jackshaft, Short, 1-1/4", 20" Long		E 1146 F	1.2	Joints, for 39" Spread
5	JD 7760	.....	Fitting, Grease, 1/8" (2 used)	10	E 1289 F	13.7	Shaft, Sq., 15-3/8", with Universal
6	E 1305 F	3.9	Joint, Universal (2 used)	11			Joints, for 41" Spread
7	E 1308 F	2.7	Shaft, Sq., 1" x 9-3/8", for 35" Spread				Guard, Universal-Joint, Right
	E 1309 F	3.8	Shaft, Sq., 1" x 13-3/8", for 39" Spread				Chain, Drive, 90" Long (65 Riveted, 3 Plain Coupler, 2 Roller, 2 Off-set Coupler Links) (No. SS127
	E 1310 F	4.4	Shaft, Sq., 1" x 15-3/8", for 41" Spread	12	E 1290 F	.18	Roller Chain) Replaces E1088F
8	B 433 F	2.1	Sprocket, 18-Tooth	13	E 1291 F	.2	Link, Coupler, Plain, for SS127
				14	E 1292 F	.2	Link, Roller, for SS127 Roller
				15	E 305 F	.....	Chain
							Link, Coupler, Offset, for SS127
							Roller Chain
							Screw, Set, Dog Point, 7/16" x 1"



Key	Part No.	Wt. Lbs.	Description
1	Z 98B F	.03	Key, Shaft, 1/4" Sq., 1-1/2" Long
2	E 1353 F	15.9	Shaft, Drive
3	B 319 H	1.1	Bar, Side, Universal Joint (2 used)
4	JD 7760	.....	Fitting, Grease, 1/8", 67-1/2°
5	B 5329 H	.....	Washer, Leather (4 used)
6	B 318 H	1.5	Block, Center, Universal Joint
7	E 1324 F	.04	Lock Nut, Bolt, Pressure Spring (2 used)
8	E 1316 F	.....	Bolt, Mach., Hex. Hd., 1/2" x 2-1/2", less Nut (2 used)
9	E 1323 F	1.2	Spring, Pressure (2 used)
10	E 1318 F	3.4	Shoe, Clutch, with Bushing (2 used)
11	E 1318 F	.3	Facing, Clutch
12	22H 76 B	.....	Screw, Set, Cup Point, 3/8" x 3/4"
13	E 1361 F	3.9	Drum, Clutch
14	E 1320 F	3.2	Shoe, Clutch (2 used)
15	E 1322 F	.2	Bushing, Clutch (2 used)
16	E 1360 F	13.7	Clutch, Torque Limit
17	E 1360 F	.....	Bolt, Mach., 7/16" x 2-1/4", with Nut (2 used)
18	12H 12 R	.....	Washer, Lock, 7/16" (2 used)
19	E 1364 F	17.8	Clutch, Torque Limit, with Universal Joint
20	E 1343 F	.01	Ring, Snap
21	E 1342 F	.1	Seal, Oil (2 used)
22	JD 7944 F	.....	Bearing, Roller
23	JD 8310 F	.....	Sleeve, Roller Bearing
24	JD 7979 F	.7	Bearing, Roller, Complete
25	JD 7759	.....	Fitting, Grease, 1/8"
26	E 1333 F	7.6	Housing, Pedestal Bearing
27	E 1344 F	8.5	Housing, Pedestal Bearing, Complete
28	14H 16 B	.....	Nut, Sq., 5/8"
29	E 1344 F	.....	Bolt, Mach., Hex. Hd., 5/8" x 1-3/4", less Nut (2 used)
30	12H 15 R	.....	Washer, Lock, 5/8"
31	E 1356 F	3.4	Extension, Pedestal Bearing
32	LB 302 F	.....	Nut, Elastic Stop, 5/8"
33	E 1357 F	.....	Support, Pedestal Bearing
34	24H 211 A	2.5	Washer, Plain, 11/16" x 1-1/4", No. 16
35	22H 72 R	.....	Screw, Set, Cup Point, 3/8" x 3/4"
36	B 436 F	1.3	Collar, Spacing

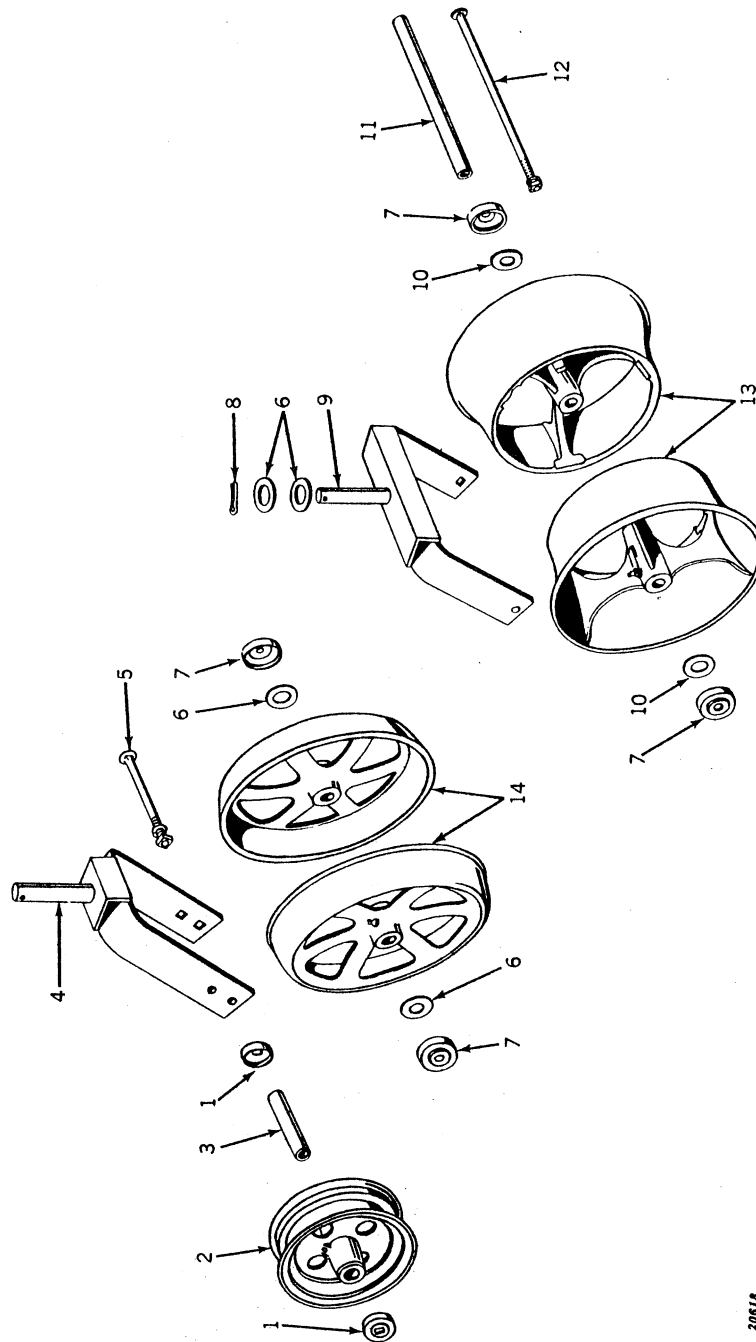


Key	Part No.	Wt. Lbs.	Description
1	A 2457 R	.9	Plate, Pivot, Universal Guard
2	16H 647 H		Rivet, Truss Hd., 1/4" x 1/2" (4 used)
3	E 1355 F	6.2	Guard, Universal Joint
4	E 1363 F	7.	Guard, Universal Joint, Riveted
5			Bolt, Mach., 5/16" x 3/4", with Nut (4 used)
6	12H 10 R		Washer, Lock, 5/16" (4 used)
7	E 1354 F	1.2	Arm, Guard Support (2 used)
			Bolt, Cge., 3/8" x 1-1/4", with Nut (2 used)
8	12H 11 R		Washer, Lock, 3/8" (2 used)
9	E 1337 F	7.3	Guard, Drive Shaft
	2H 154 R		Bolt, Cge., 5/16" x 3/4", with Nut (4 used)
10	12H 10 R		Washer, Lock, 5/16" (4 used)
11	E 917 F	.5	Bracket, Guard Tube (2 used)
			Bolt, Mach., 3/8" x 5", with Nut

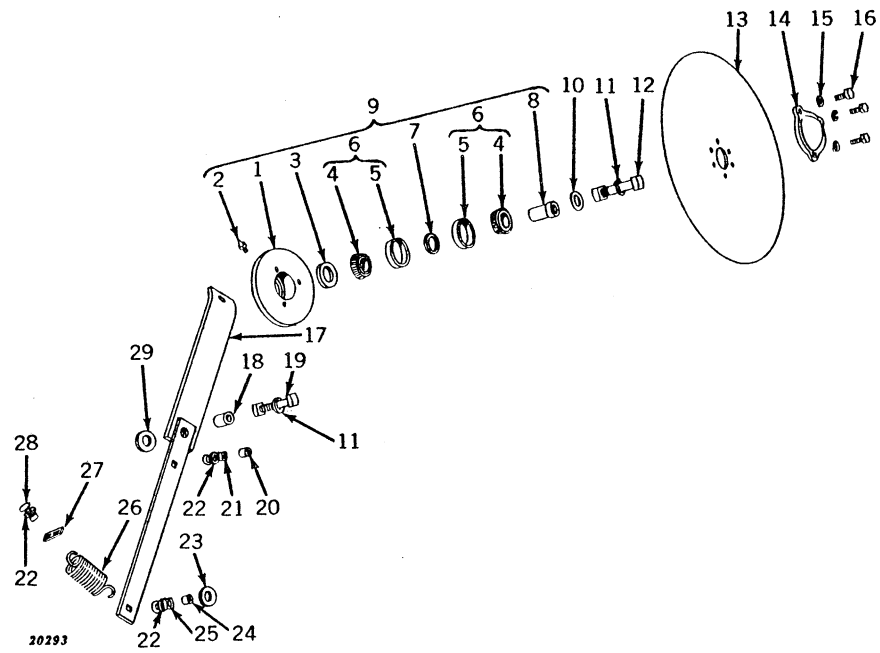


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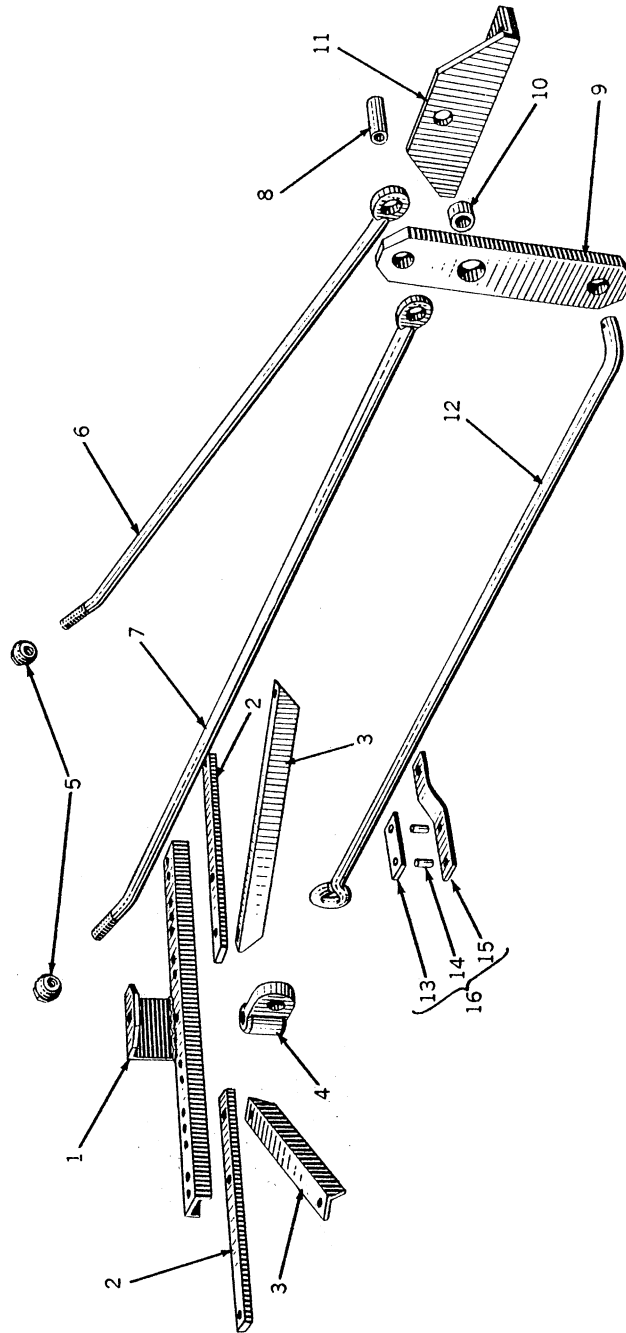
Key	Part No.	Wt. Lbs.	Description
1	JD 7759		Fitting, Grease, Straight, 1/8" (2 used)
2	Z 916 F	19.7	Extension, Frame, for Regular Truck (2 used)
3	E 542 F	1.2	Clevis, Beam (2 used)
4	E 724 F	3.8	Bar, Hitch
5	E 511 F	1.9	Hook, Clevis
6	E 545 F	2.1	Plate, Hitch
7	E 723 F	1.6	Brace, Hitch Bar (2 used)
8	Z 1033 F	21.1	Extension, Frame, for High Clearance Truck (2 used)
9	B 386 F	4.6	Bearing, Caster Shank, for High Clearance Truck (2 used)
10	Z 900 F	57.3	Frame, with Draw Iron
11	Z 902 F	.33	Spreader, Pipe, 3/4" x 3-1/2" (2 used)
12	Z 901 F	5.2	Clevis, Support (2 used)



Key	Part No.	Wt. Lbs.	Description
1	B 120 F	.34	Band, Sand (For Truck) (2 used)
2	B 351 F	11.7	Wheel (For 4:00 x 8 Rubber Tire)
3	28H 1605 F	.74	Bushing, Wheel, 3/4", Extra Heavy Pipe, 6" Long
4	Z 1052 F	21.9	Arch, Caster Wheel, Welded
5	(3H 784 F 12H 15 R 24H 310 F)	.....	Bolt, Cge., 5/8" x 9", with Nut
6		.....	Washer, Lock, 5/8"
		.....	Washer, Plain, 1-5/16" x 2-3/8", No. 16 (2 used)
7	B 175A F	.63	Band, Sand (2 used)
8	11H 142 B	.....	Pin, Cotter, 5/16" x 2-1/2"
9	Z 1053 F	27.7	Arch, Caster Roller, Welded
10	24H 266 F	.....	Washer, Plain, 1-3/32" x 2-3/8" (2 used)
11	28H 1607 F	1.8	Bushing, Roller, 3/4", Extra Heavy Pipe, 14-11/16" Long
12	(3H 1073 F 12H 15 R B 440 F)	.....	Bolt, Cge., 5/8" x 17-1/2", with Nut
13		38.8	Washer, Lock, 5/8"
		.....	Roller, Caster, with Grease Fittings (2 used)
14	B 309 F	18.3	Wheel, Half (2 used)

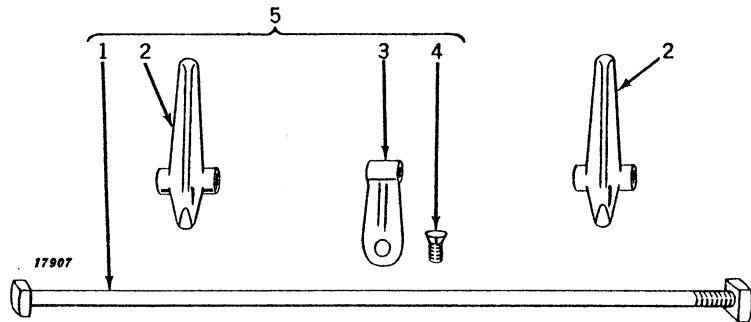


Key	Part No.	Wt. Lbs.	Description
1	B 438 F	6.1	Hub, Coulter
2	JD 7759	.....	Fitting, Grease, Straight, 1/8"
3	LB 169 F	.13	Seal, Oil
4	JD 7388 H	.43	Cone, Roller Bearing (2 used)
5	JD 7259 R	.25	Cup, Roller Bearing
6	JD 7895 H	.68	Bearing, Roller, Tapered (2 used)
7	28H 1609 F	.05	Spacer, Roller Bearing, 3/16" x 1-1/4"
8	LB 166 F	.82	Sleeve, Roller Bearing
9	ALB 229 F	8.5	Hub Assembly, Coulter
10	24H 218 F	.....	Washer, Plain, 3/4" x 1-1/2", No. 16
11	12H 17 R	.....	Washer, Lock, 3/4" (2 used)
12	LB 319 F	.....	Axle, Coulter, 3/4" x 4" (Mach. Bolt, Milled with Nut)
13	BZ 49 F	8.6	Blade, Coulter, 5/32" x 17"
14	RN 227 F	.67	Cap, Coulter Bearing
15	12H 11 R	.....	Washer, Lock, 3/8" (3 used)
16	19H 211 R	.....	Screw, Cap, Hex. Hd., 3/8" x 1" (3 used)
17	ALB 226 F	13.	Arm, Coulter, Welded
18	28H 1578 F	.1	Bushing, 3/4" x 1-1/16"
19	.....	.....	Bolt, Mach., 3/4" x 3-1/2"
20	28H 187 F	.04	Spacer, 3/8" x 15/16"
21	2H 515 F	.....	Bolt, Cge., 7/16" x 1-3/4"
22	12H 12 R	.....	Washer, Lock, 7/16" (3 used)
23	24H 381 A	.....	Washer, Plain, 1/2" x 1-1/4", No. 14
24	28H 1519 F	.02	Spacer, 3/8" x 3/8"
25	2H 488 F	.....	Bolt, Cge., 7/16" x 1-1/4"
26	LB 318 F	.7	Spring, Tension
27	S 520 F	.12	Washer, Strap, 1" x 3/16" x 2-1/4"
28	.....	.....	Bolt, Cge., 7/16" x 1"
29	24H 630 A	.....	Washer, Plain, 13/16" x 2", No. 10



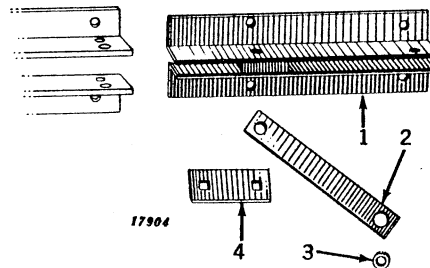
Key	Part No.	Wt. Lbs.	Description
1	ALB 169 F	13.6	Support, Cylinder, Assembly
2	LB 251 F	4.	Bar, Extension (2 used)
3	LB 252 F	3.5	Support, Cylinder (2 used)
4	B 406 F	2.9	Support, Casting, Cylinder
5	B 346 F	.34	Nut, Adjusting (2 used)
6	LB 143 F	5.8	Rod, Lift, to Lift R.H. Digger
7	LB 256 F	5.8	Rod, Lift, to Lift L.H. Digger
8	LB 255 F	.14	Bushing, Rod, Lift, 3/4" O.D., 2-1/8" Long
9	LB 254 F	4.8	Arm, Rocker
10	28H 1574 F	.07	Bushing, Arm, Rocker, 3/4" Pipe, 3/4" Long
11	LB 253 F	4.2	Support, Arm, Rocker
12	LB 257 F	6.7	Rod, Pull, From Cylinder
13	LB 325 F	.4	Strap, Support, Pull Rod
14	28H 1508 F	.06	Spacer, 3/8" x 1-1/4" Pipe (2 used)
15	LB 258 F	1.1	Support, Rod, Pull
16	ALB 235 F	1.8	Support, Pull Rod, Assembly

STONE GUARD



Key	Part No.	Wt. Lbs.	Description
1	(8H 515 F	.....	Bolt, Mach., 7/16" x 26", with Nut (For 24" Digger)
	(8H 521 F	.....	Bolt, Mach., 7/16" x 28", with Nut (For 26" Digger)
2	B 85 F	.4	Finger, Stone Guard (11 used—24" Digger) (12 used—26" Digger)
3	B 86 F	.17	Hinge
4	9H 1120 F	.....	Bolt, Plow, No. 90, 3/8" x 1", with Nut
5	(384 F	5.5	Stone Guard Complete (For 24" Digger)
	(385 F	6.	Stone Guard Complete (For 26" Digger)

BEAM EXTENSION



Key	Part No.	Wt. Lbs.	Description
1	ALB 134 F	12.9	Beam Extension, Welded
2	LB 199 F	1.3	Brace, Extension (To Truck) (2 used)
3	LH 542 F	.03	Bushing, 1/2" Extra Heavy Pipe, 5/16" Long (2 used)
4	LB 198 F	.8	Clamp Strap (2 used)

NUMERICAL INDEX

61

Part No.	Page No.	Key	Part No.	Page No.	Key	Part No.	Page No.	Key
384 F.....	60	5	19H			ALB		
385 F.....	60	5	19H 211 R.....	57	16	ALB 24 F.....	31	14
1293 A.....	39	5	22H			ALB 25 F.....	31	14
1565 SC.....	31	15	22H 72 R.....	51	35	ALB 33 F.....	42	4
16117 A.....	39	14	22H 76 B.....	51	12	ALB 63 F.....	39	15
2H			24H			ALB 66 F.....	39	16
2H 154 R.....	52	9	24H 211 A.....	51	34	ALB 67 F.....	39	10
2H 488 F.....	57	25	24H 218 F.....	57	10	ALB 68 F.....	39	11
2H 515 F.....	57	21	24H 266 F.....	55	10	ALB 70 F.....	33	18
2H 531 F.....	42	9	24H 310 F.....	55	6	ALB 71 F.....	33	18
3H			24H 381 A.....	42	2	ALB 79 F.....	41	1
3H 784 F.....	55	5		57	23	ALB 90 F.....	33	18
3H 1073 F.....	55	12	24H 630 A.....	57	29	ALB 91 F.....	33	18
7H			28H			ALB 94 F.....	33	18
7H 1051 F.....	33	13	28H 187 F.....	42	3	ALB 95 F.....	33	18
8H				57	20	ALB 102 F.....	31	14
8H 515 F.....	60	1	28H 1508 F.....	29	14	ALB 117 F.....	33	15
8H 521 F.....	60	1	28H 1517 F.....	39	2	ALB 118 F.....	33	2
9H			28H 1519 F.....	57	24	ALB 121 F.....	33	14
9H 1120 F.....	60	4	28H 1521 F.....	45	25	ALB 123 F.....	38	13
11H			28H 1540 F.....	42	1	ALB 124 F.....	38	13
11H 142 B.....	55	8	28H 1565 F.....	31	26	ALB 125 F.....	31	6
12H				33	11	ALB 126 F.....	31	6
12H 10 R.....	52	5	28H 1568 F.....	31	26	ALB 128 F.....	38	13
	52	9		33	11	ALB 129 F.....	38	14
12H 11 R.....	42	4	28H 1572 F.....	42	11	ALB 130 F.....	38	9
	52	7	28H 1574 F.....	59	10	ALB 131 F.....	35	8
12H 12 R.....	57	15	28H 1578 F.....	57	18	ALB 132 F.....	35	13
	42	1	28H 1605 F.....	55	3	ALB 134 F.....	60	1
	51	18	28H 1607 F.....	55	11	ALB 136 F.....	31	27
12H 15 R.....	57	22	28H 1609 F.....	57	7	ALB 137 F.....	31	27
	51	30	A			ALB 169 F.....	59	1
	55	5	A 2457 R.....	52	1	ALB 218 F.....	41	14
12H 17 R.....	55	12	AB			ALB 219 F.....	41	15
	57	11	AB 1288 H.....	41	8	ALB 223 F.....	42	—
14H			AHB			ALB 224 F.....	42	—
14H 16 B.....	51	28	AHB 137A F....	31	23	ALB 226 F.....	57	17
15H			AHB 138B F....	33	8	ALB 229 F.....	57	9
15H 283 R.....	45	1	AHB 284 F.....	31	19	ALB 235 F.....	59	16
16H			AZ			B		
16H 647 H.....	51	2	AZ 3 F.....	39	18	B 85 F.....	60	2
						B 86 F.....	60	3
						B 120 F.....	55	1
						B 136A F.....	31	22
							33	6
							47	10
							48	15
						B 137A F.....	31	21
						B 138B F.....	33	7
						B 175 A.....	55	7
						B 265 F.....	31	16

NUMERICAL INDEX

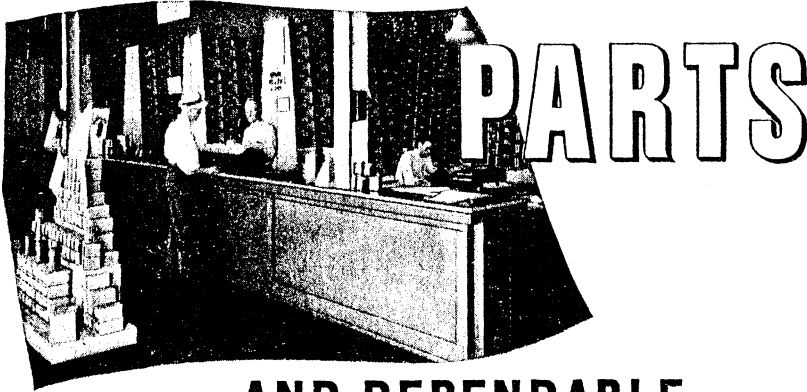
Part No.	Page No.	Key	Part No.	Page No.	Key	Part No.	Page No.	Key
B 269 F.....	37	13	CJ			E 1124 F.....	45	15
	47	7				E 1127 F.....	48	1
B 277 F.....	47	19	CJ 74 F.....	41	7	E 1130 F.....	47	6
	48	7						
B 278 F.....	38	5	E			E 1131 F.....	47	6
	47	22				E 1141 F.....	47	8
	48	5	E 239 F.....	42	3	E 1142 F.....	47	8
B 283 F.....	31	18	E 305 F.....	47	18	E 1143 F.....	48	8
B 284 F.....	31	17		49	15	E 1146 F.....	49	10
B 309 F.....	55	14	E 511 F.....	53	5	E 1159 F.....	47	5
B 315 F.....	37	9	E 542 F.....	53	3	E 1175 F.....	47	25
							48	10
B 316 F.....	37	8	E 545 F.....	53	6	E 1176 F.....	45	3
B 318 H.....	51	6	E 640 F.....	37	7	E 1180 F.....	45	2
B 319 H.....	51	3		45	27	E 1187 F.....	45	5
B 335 F.....	37	15		47	2			
B 340 F.....	41	17		49	2	E 1207 F.....	48	18
			E 723 F.....	53	7	E 1235 F.....	47	4
B 341 F.....	41	16	E 724 F.....	53	4	E 1236 F.....	47	4
B 343 F.....	41	3	E 728 F.....	45	26	E 1237 F.....	49	4
B 344 F.....	41	2				E 1245 F.....	47	27
B 346 F.....	41	20	E 917 F.....	52	10		48	11
	59	5	E 952 F.....	39	17			
B 350 F.....	43	6	E 1013 F.....	45	2	E 1248 F.....	48	12
			E 1014 F.....	45	29	E 1254 F.....	47	12
B 351 F.....	55	2	E 1015 F.....	45	6		48	17
B 355 F.....	41	27				E 1289 F.....	47	14
B 356 F.....	43	7	E 1017 F.....	45	24		49	11
B 366 F.....	31	25	E 1022 F.....	47	11	E 1290 F.....	47	15
	33	10		48	14		49	12
B 368 F.....	31	20	E 1036 F.....	47	1	E 1291 F.....	47	16
	43	5		49	1		49	13
			E 1037 F.....	38	15			
B 376 F.....	38	3	E 1038 F.....	38	15	E 1292 F.....	47	17
B 377 F.....	37	12					49	14
B 378 F.....	37	1	E 1039 F.....	38	15	E 1304 F.....	45	23
B 379 F.....	37	12	E 1040 F.....	47	1	E 1305 F.....	49	6
B 380 F.....	37	1	E 1042 F.....	47	26	E 1308 F.....	49	7
				48	9	E 1309 F.....	49	7
B 381 F.....	33	17	E 1045 F.....	38	15			
B 382 F.....	33	9	E 1046 F.....	38	15	E 1310 F.....	49	7
B 383 F.....	38	10				E 1313 F.....	49	9
B 384 F.....	38	10	E 1083 F.....	47	13	E 1314 F.....	49	9
B 385 F.....	38	1		48	13	E 1315 F.....	49	9
			E 1106 F.....	39	20	E 1316 F.....	51	9
B 386 F.....	53	9	E 1109 F.....	45	21			
B 389 F.....	33	4	E 1110 F.....	45	13	E 1318 F.....	51	11
B 390 F.....	33	3	E 1111 F.....	45	31	E 1320 F.....	51	14
B 391 F.....	33	5				E 1322 F.....	51	15
B 406 F.....	59	4	E 1112 F.....	45	9	E 1323 F.....	51	10
			E 1113 F.....	45	16	E 1324 F.....	51	7
B 432 F.....	41	12	E 1114 F.....	45	10			
B 433 F.....	49	8	E 1115 F.....	45	20	E 1330 F.....	47	9
B 436 F.....	51	36	E 1116 F.....	45	11		48	16
B 438 F.....	57	1				E 1333 F.....	51	26
B 440 F.....	55	13	E 1117 F.....	45	18	E 1337 F.....	52	8
B 5234 H.....	41	11	E 1118 F.....	45	22	E 1342 F.....	51	21
			E 1119 F.....	45	4	E 1343 F.....	51	20
B 5235 H.....	41	10	E 1120 F.....	45	33			
B 5321 H.....	41	9	E 1121 F.....	45	30	E 1344 F.....	51	27
B 5329 H.....	51	5				E 1353 F.....	51	2
			E 1122 F.....	45	7	E 1354 F.....	52	6
			E 1123 F.....	45	14			
BZ								
BZ 49 F.....	57	13						

NUMERICAL INDEX

63

Part No.	Page No.	Key	Part No.	Page No.	Key	Part No.	Page No.	Key
E 1355 F.....	52	3	LB 69 F.....	37	2	LB 253 F.....	59	11
E 1356 F.....	51	31	LB 70 F.....	37	11	LB 254 F.....	59	9
			LB 81 F.....	41	24	LB 255 F.....	59	8
E 1357 F.....	51	33				LB 256 F.....	59	7
E 1360 F.....	51	16	LB 87 F.....	42	10	LB 257 F.....	59	12
E 1361 F.....	51	13	LB 94 F.....	31	9			
E 1363 F.....	52	4	LB 95 F.....	31	9	LB 258 F.....	59	15
E 1364 F.....	51	19	LB 102 F.....	31	2	LB 276 F.....	31	20
			LB 108 F.....	39	1		43	5
JD						LB 289 F.....	33	13
JD 54 B.....	42	5	LB 109 F.....	31	5	LB 300 F.....	41	8
JD 55 B.....	42	6	LB 113 F.....	31	7	LB 301 F.....	41	18
JD 638 H.....	43	9	LB 114 F.....	31	7			
JD 712 F.....	43	4	LB 115 F.....	31	8	LB 302 F.....	51	32
JD 720 F.....	43	4	LB 116 F.....	31	8	LB 307 F.....	35	4
						LB 308 F.....	35	3
JD 2133 D.....	43	3	LB 117 F.....	33	12	LB 310 F.....	35	2
JD 2139 D.....	43	1	LB 121 F.....	39	9	LB 311 F.....	42	8
JD 2411 C.....	43	2	LB 122 F.....	39	8			
JD 7259 R.....	57	5	LB 123 F.....	39	6	LB 312 F.....	42	6
JD 7388 H.....	57	4	LB 124 F.....	39	4	LB 313 F.....	42	5
						LB 314 F.....	42	5
JD 7665 R.....	45	17	LB 125 F.....	39	7	LB 318 F.....	57	26
JD 7692 F.....	45	8	LB 138 F.....	41	13	LB 319 F.....	57	12
JD 7693 F.....	45	19	LB 140 F.....	41	26			
JD 7759.....	38	2	LB 143 F.....	41	22	LB 325 F.....	59	13
	41	28		59	6			
	47	20	LB 144 F.....	41	19	LH		
	48	6				LH 542 F.....	60	3
	51	25	LB 145 F.....	41	23			
	53	1	LB 146 F.....	41	6	P		
	57	2	LB 154 F.....	41	5	P 38.....	39	19
JD 7760.....	43	8	LB 161 F.....	41	25			
	45	28	LB 166 F.....	57	8	RN		
	49	5				RN 227 F.....	57	14
	51	4	LB 169 F.....	57	3			
JD 7895 H.....	57	6	LB 170 F.....	41	21	S		
JD 7944 F.....	51	22	LB 171 F.....	31	10	S 409 F.....	39	13
JD 7979 F.....	51	24	LB 172 F.....	31	1	S 520 F.....	57	27
JD 8310 F.....	51	23	LB 178 F.....	31	24			
						Z		
LB			LB 179 F.....	38	11	Z 98B F.....	45	32
LB 5 F.....	37	10	LB 180 F.....	38	11		51	1
LB 6 F.....	37	3	LB 181 F.....	38	6	Z 98K F.....	37	6
LB 7 F.....	37	10	LB 182 F.....	38	4	Z 98L F.....	38	16
LB 8 F.....	37	3	LB 183 F.....	35	9		45	12
LB 9 F.....	37	14					47	3
			LB 184 F.....	35	1		49	3
LB 10 F.....	37	14	LB 185 F.....	33	16	Z 98M F.....	38	12
LB 14 F.....	37	4	LB 186 F.....	33	1	Z 243 F.....	31	13
LB 15 F.....	37	4	LB 188 F.....	38	8			
LB 25 F.....	31	4	LB 192 F.....	35	6	Z 244 F.....	31	12
LB 30 F.....	31	3				Z 764 F.....	31	13
LB 38 F.....	47	23	LB 193 F.....	35	7	Z 765 F.....	31	12
	48	4	LB 194 F.....	35	5	Z 900 F.....	53	10
LB 39 F.....	38	7	LB 195 F.....	35	11	Z 901 F.....	53	12
	47	24	LB 196 F.....	35	12			
	48	2	LB 197 F.....	35	10	Z 902 F.....	53	11
LB 40 F.....	47	21				Z 916 F.....	53	2
	48	3	LB 198 F.....	60	4	Z 1016 F.....	31	11
LB 49 F.....	37	5	LB 199 F.....	60	2	Z 1033 F.....	53	8
LB 56 F.....	39	12	LB 247 F.....	41	4	Z 1042 F.....	31	11
			LB 251 F.....	59	2			
LB 57 F.....	39	3	LB 252 F.....	59	3	Z 1043 F.....	31	11
LB 59 F.....	42	2				Z 1052 F.....	55	4
						Z 1053 F.....	55	9

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NO accident prevention program can be successful without the whole-hearted cooperation of the person who is directly responsible for the operation of equipment.

To read accident reports from all over the Country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the harvest field, or in the industrial plant, can be safer than the man who is at the controls. If farm accidents are to be prevented—and they can be prevented—it will be done by the operators who accept a full measure of their responsibility.

It is true that the designer, the manufacturer, the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that “*the best kind of a safety device is a careful operator.*” We ask you to be that kind of an operator.

NATIONAL SAFETY COUNCIL

