

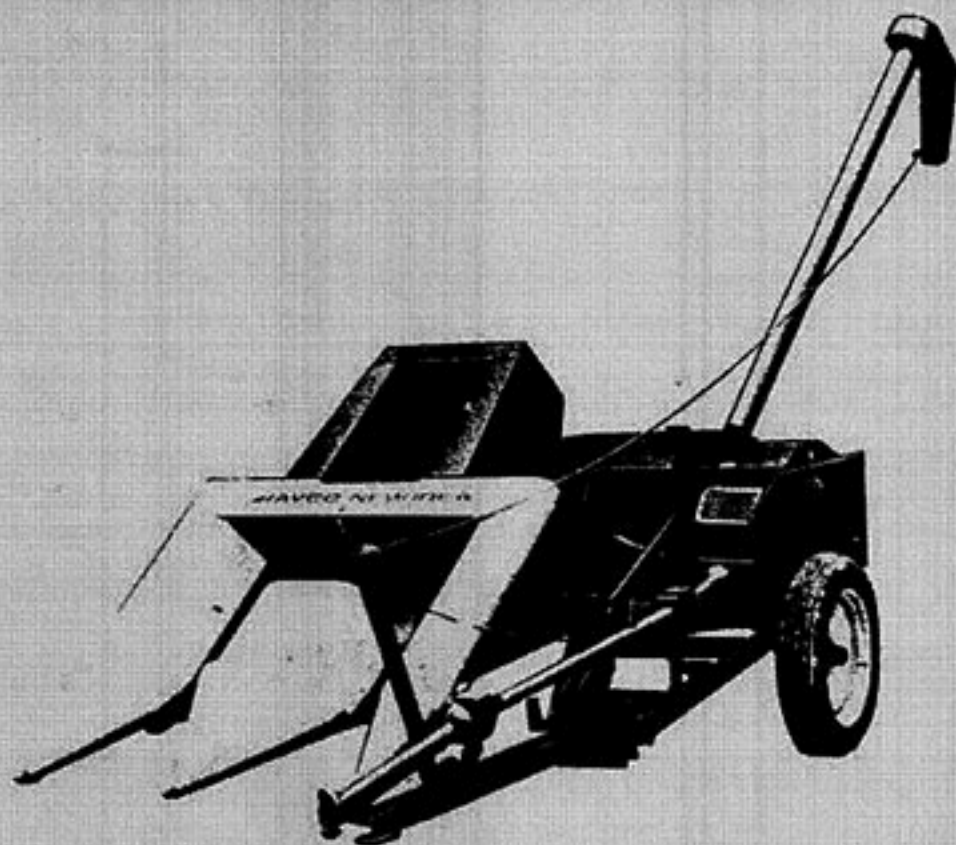
OPERATOR'S MANUAL

NO. P-219

**AVCO
NEWIDEA**

Nos. 324 & 325

**TWO ROW PULL TYPE
GATHERING UNITS**



For the Dealer and Operator
Read these instructions
Save them for reference

**AVCO
NEWIDEA**
COLDWATER, OHIO U.S.A. 43025

FORM NO. 985787

The Symbol Shown Below Is Used To call Your Attention To Instructions Concerning Your Personal Safety. Watch This Symbol - It Points Out Important Safety Precautions. It Means "ATTENTION! — Become Alert! Your Personal Safety Is Involved!" Read The Message That Follows And Be Alert To The Possibility of Personal Injury Or Death.



BE ALERT!

Your Safety is involved.

INTRODUCTION AND INDEX

No. 324 Wide Row Picker



The No. 324 Corn Picker is designed to pick corn that is spaced from 36 to 44". The snapping rolls are set on 39" centers.

No. 325 Narrow Row Picker



The No. 325 Corn Picker is designed to pick corn that is spaced from 28" to 36". The snapping rolls are set on 32" centers.

PROTECT YOUR INVESTMENT AND GET MAXIMUM SERVICE AND VALUE, THROUGH:

1. **PROPER ASSEMBLY** Check the assembly against the instructions in this Manual to be sure that the Picker is "right" when it is delivered.
2. **PROPER ADJUSTMENTS** Make adjustments in the manner prescribed in this Manual.
3. **PROPER MAINTENANCE** Check the entire Picker periodically to detect lost, broken or inoperative parts. Replace them promptly with Genuine Avco New Idea Repair Parts available through your Avco New Idea Dealer.
4. **PROPER OPERATION** Be completely familiar with and follow the operational instructions that are provided in this Manual.
5. **PROPER LUBRICATION** Follow our recommendations in this Manual with regard to frequency and coverage. Economize by using only high grade lubricants and oil. It pays! It doesn't cost!

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UNITS AVAILABLE WITH THE NO. 324 AND 325 CORN PICKERS

**No. 327 Twelve Roll or 326 Eight Roll Husking Units
(No. 327 Twelve Roll Shown)**

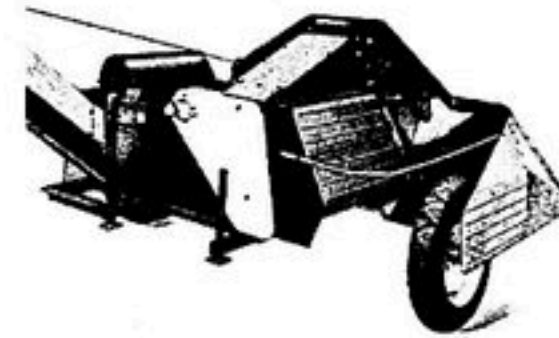


Figure 1

No. 318 Grinder



Figure 1 B

No. 314 Sheller



Figure 1 A

No. 329 Sheller



Figure 1 C

Figs. 1, 1A, 1B & 1C - These units are designed for use with the Nos. 324 or 325 Gathering Units. For complete setting up and mounting information on these

units, see the operator's manual on the particular unit being used.

OPTIONAL ATTACHMENTS

Upper Beater



Figure 2

Fig. 2 - The beater attachment is designed to help carry stalks and corn up the first elevator in extreme dry, down or frozen conditions. (Optional equipment on No. 324 Picker, standard on No. 325 Picker).

Secondary Beater

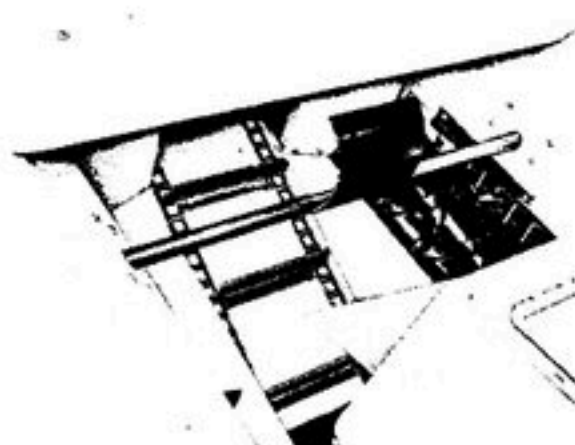


Figure 3

Fig. 3 - The secondary beater is for use in extreme dry or dirty conditions. It can be installed on both the Nos. 324 & 325 Pickers. However, if it is to be used on the No. 324 Picker, the upper beater described in Fig. 2 must be installed first.

Mud Scraper

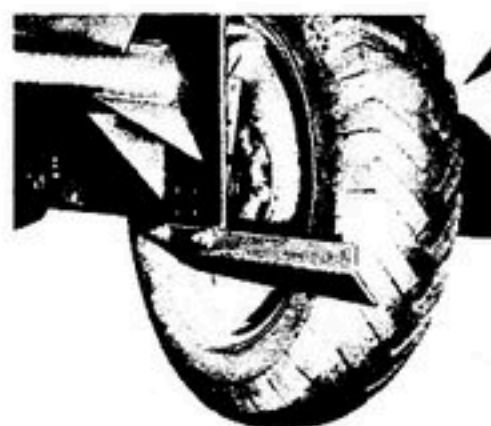


Figure 4

Fig. 4 - The mud scraper can be installed when extreme wet or muddy conditions exist. It is designed for the right wheel only and prevents a build up of mud on the frame and moving parts of the right gathering unit.

Stalk Deflector

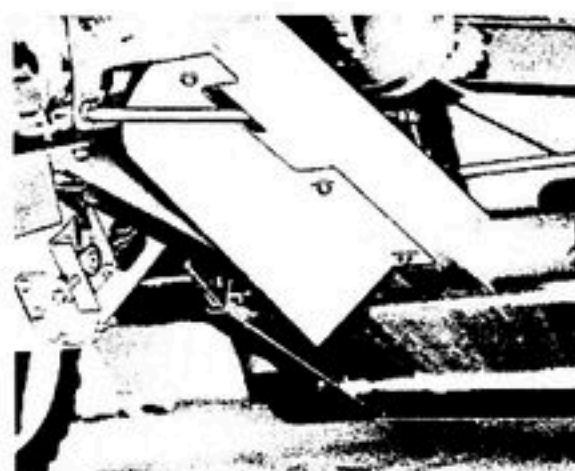


Figure 4A

Fig. 4A - The stalk deflectors (one for each row) are designed to give a more even distribution of material across the corn rows.

NO. 324 AND NO. 325 TWO ROW PICKERS

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SAFETY PRECAUTIONS AND FIELD OPERATION



SAFETY PRECAUTIONS

- BE SURE TO DISENGAGE POWER TAKE-OFF BEFORE STARTING TRACTOR ENGINE.
- NEVER ATTEMPT TO GREASE OR ADJUST THE MACHINE WHILE IT IS IN OPERATION.
- AVOID EXCESSIVE ROAD SPEED.
- KEEP HANDS AND CLOTHING AWAY FROM MOVING PARTS.
- ALWAYS DISENGAGE P.T.O. AND SHUT OFF TRACTOR ENGINE BEFORE DISMOUNTING FROM TRACTOR.

Field Operation

The No. 324 and 325 two row Pickers are especially designed to do a better picking job in today's heavy yield corn. Greater capacity has been built into the machines, along with dependability and ease of operation.

Forward travel of the unit is directly determined by corn conditions, field conditions and yield per acre. The power take-off speed should be kept near 540 RPM or 1000 RPM - depending on the tractor P.T.O.

Having arrived at the beginning of the row that is to be picked, stop the travel of the tractor. Lower the floating gathering shoes or points so they merely touch or sweep over the ground. Watch that the rear parts of the gathering shoes are not forced tight upon the ground. Too low a setting will cause unnecessary wear at the bottom of the gathering shoes and cause the points of the gathering shoes to stick up and then these points will not get underneath the down stalks. Engage the power take-off and drive the tractor along the rows so that the Picker advances centrally on the corn rows.

If the machine should plug, which it will sometimes do in extreme down corn or for other reasons, disengage P.T.O. before removing congestion. Under certain conditions this can be done by stopping the forward motion of the tractor and running the ma-

chinery. Sometimes the machinery must be stopped and the congestion removed. NEVER UNDER ANY CIRCUMSTANCES GET OFF THE TRACTOR SEAT WITH THE POWER TAKE-OFF AND MACHINERY IN MOTION TO CLEANOUT THE MACHINE BY HAND.

The gathering chains, wagon elevator, center elevator, husking bed, corn saver, clearing rolls, beater and ear forwarders, have ratchet drives and in case anything gets caught in them these ratchets should slip. When you hear a ratchet slipping, stop the travel of the tractor and machinery, then remove the obstacle. If these ratchets slip for no apparent reason, they may not be tight enough, in which case the spring should be tightened.

The wagon elevator is equipped with a throwout clutch. This clutch should always be disengaged when turning at end of rows (unless the power take-off is disengaged).

If the wagons are changed in the row, stop the forward travel of the tractor. Run the power take-off so to clean all the corn out of the machine, then disengage the wagon elevator clutch and disconnect the full wagon. Continue to pick corn for about 25 feet or until the empty wagon can be pulled into place and coupled up. Engage the wagon elevator clutch and continue to pick corn.

TIRE PRESSURE 22 TO 25 LBS.

Storage of Picker

1. Clean all husks, silks, etc., from the machine.
2. Clean and oil all chains. Chains should be removed and dipped if possible.
3. Lubricate all pressure fittings listed on Page 8.
4. House picker in a suitable dry place where it is neither exposed to weather or livestock.
5. Repair or replace any needed parts, not leaving this until next season.
6. Cover all weathering surfaces with a rust preventive compound.
7. Clean all rust spots thoroughly and paint to stop oxidation.

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TRUBLE SHOOTING

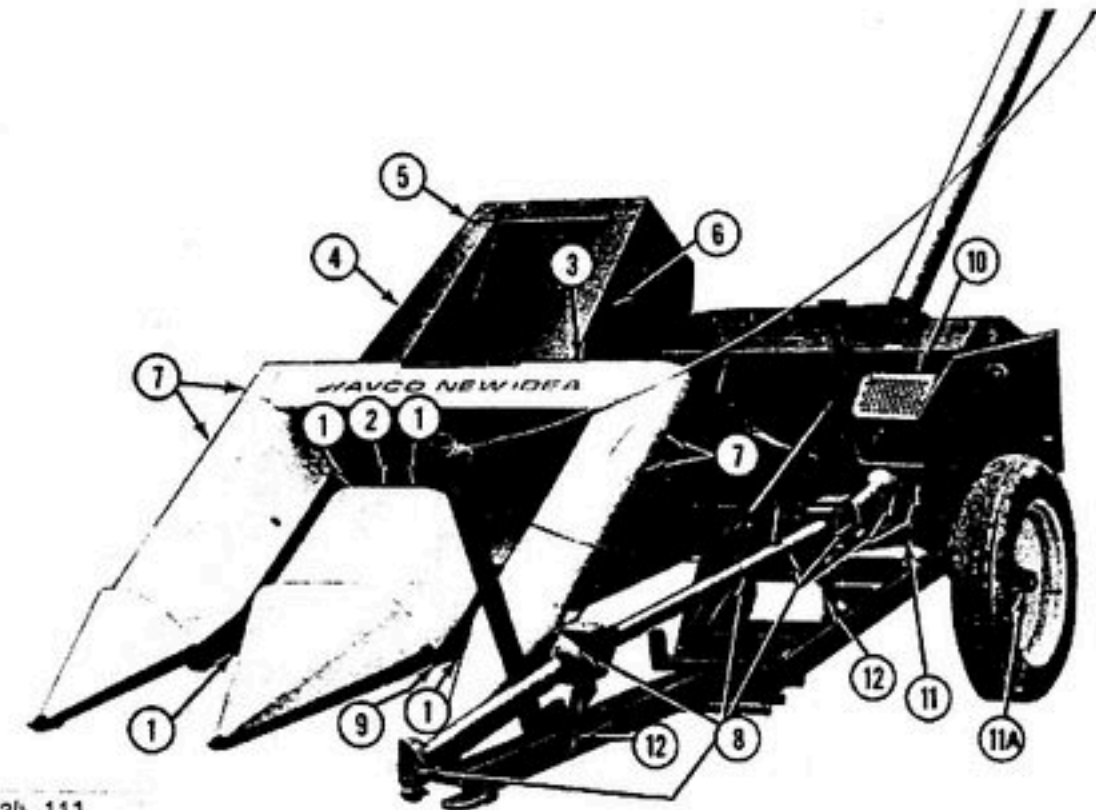
A FEW MINOR ADJUSTMENTS WILL SAVE A LOT OF TIME IN THE FIELD! STUDY THESE TROUBLE SHOOTING SUGGESTIONS THOROUGHLY.

TROUBLE	CAUSE	CORRECTION
1. Snap Unit Plugs	(a) Ground speed too fast for corn conditions in relation to P.T.O. speed. (b) Distance between snapping rolls not set correctly for corn conditions. (c) Worn snapping rolls. (d) Gathering chains too tight. (e) Brittle or frozen stalks, etc., break off at rolls. (f) Corn catches at lower end of rolls.	(a) Shift to lower gear - operate tractor at recommended PTO speed. (b) Set rolls together except in dry or frozen stalk conditions. See Fig. 13 and 14, Page 11. (c) Replace rolls if pockets in lobes on roll are worn smooth. (d) Loosen chains. See Fig. 9, Page 10. (e) Open rolls. (f) Worn entry guides. Bent, loose or missing parts at lower end of rolls.
2. Excessive Shelling on Snap Rolls	(a) Adjustment of rolls is necessary. (b) Gathering chains too tight.	(a) Open or close rolls according to conditions. See 1 - under trouble. (b) Loosen chains. See Fig. 9, Page 10.
3. Down, Dry or Frozen Corn Conditions	(a) Unable to get corn into picker. (b) Excessive stalk breakage.	(a) Adjust floating shoes so that tips get under corn. See Fig. 10, Page 10. Reposition height of picker. See Fig. 8, Page 9. (b) Slow down forward travel of unit. Install beater attachments. See Pages 20 and 21.
4. Husking Unit Plugs (See Husking Unit Manual to check these complaints)	(a) Too much corn on rolls. (b) Insufficient number of husking pegs in rolls. (c) Rolls wrapped with husks, etc. (d) Rolls out of time. (e) Lower roll out of position.	(a) Operate tractor in lower gear. Check husking roll adjustment. Bend roll cover down on rolls. (b) Add pegs. (c) Increase tension on rolls. (d) Check for proper timing. (e) Check for missing or broken parts on tension rods at each end. Lower bearing must slide freely in hanger. Worn bearings.
5. Excessive Shelling on Husking Rolls (See Husking Unit Manual to check these complaints)	(a) Too many husking pegs for easy shelling corn (b) Not enough tension on rolls.	(a) Remove husking pegs as necessary. (b) Increase tension.
6. Trash in Load	(a) Picker units not adjusted properly. (b) Distance between snapping rolls not set correctly for corn conditions. (c) Fan not operating at proper speed. (1400 R.P.M. at 540 P.T.O. speed).	(a) Check adjustment on snapping and husking rolls to be sure they are correct for such conditions. Various tractor speeds should be tried. (b) Adjust rolls. Shift to lower gear if necessary to reduce volume of material entering machine. (c) Tighten belt so there is no slippage. Reposition fan to attain proper air deflection.
7. First elevator will not take corn away fast enough.	(a) First elevator not running fast enough.	(a) Install speed-up sprocket. See page 10, Fig. 12.

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LUBRICATION GUIDE



P324-111

Figure 5

Fig. 5 - Grease bearings No. 1, 2, 4, 5, and 10 every 8 hours.

1. Snapping roll end bearing (4).
 2. First elevator boot shaft bearings (2).
 4. Beater drive gear bearing (1). (Beater standard equipment on 325 Picker, optional on 324).
 5. Trash roll shaft bearing (1).
 10. Fan jack shaft bearing (1). (With 326 & 327 Husking Units only.)
- Grease bearings No. 3, 6, and 11 every 50 hours.
3. Beater shaft bearings (2). (Beater standard equipment on 325 Picker, optional on 324).
 6. First elevator drive shaft bearing (1).
 11. Wagon elevator throwout sprocket assembly (1). (With 326 & 327 Husking Units only.)
 - 11A. Wheel hubs (2).
- Grease bearings No. 8, and 12 every 100 hours or annually, whichever comes first.
8. Power take-off bearings (6).
 12. P.T.O. pivot bearing (4).
- Grease bearings No. 7 and 9 every 200 hours or annually, whichever comes first.
7. Snapping roll gear housing assemblies (4).
 9. Short gathering chain gear boxes (2).

- Brush oil on all chains, liberally and often.
- Keep main drive gear case filled to level of check plug with No. 90 transmission oil. Drain, flush and refill the gear case annually.
- Keep right and left snapping unit gear boxes (located on main drive shaft) filled to level of main shaft with No. 90 transmission oil.
- Keep long gathering chain gear boxes filled to level of orange bolt on top side of case, with No. 90 transmission oil.
- Keep PTO telescoping shaft and tube well greased so they move freely and easily. Clean tube and shaft annually and renew the grease.
- Repack wheel hubs annually.
- Repack short gathering chain gear boxes annually.

DO NOT USE A SOAP BASE GREASE IN GEAR BOXES. USE GREASES HAVING A LITHIUM BASE ONLY. THE FOLLOWING MULTI-PURPOSE GREASES ARE RECOMMENDED:

Type of Grease	Company
Marfax Multipurpose #2	Texas Co. - Texaco
Pactran #2	Standard Oil of Ohio - Sohio
Multiduty #2	Sun Oil Co. - Sunoco
HT EP #2 Multipurpose	Pure Oil Co.

8

OPERATING AND ADJUSTING

All Drive Chains

Adjust all drive chains to the point where they will not whip or jump teeth on the sprockets.

Hitching Picker to Tractor, Offsetting Hitch and Use of Hydraulic Cylinders

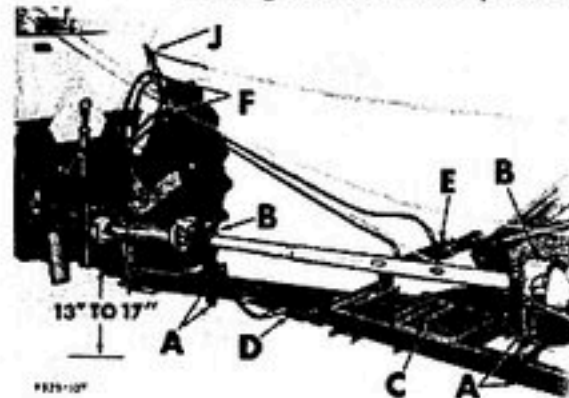


Figure 6

Figs. 6 & 7

1. The tractor drawbar must be adjusted as illustrated, so the top of the drawbar is 13" to 17" above ground.
2. The drawbar should also be adjusted to ASAE standard length, which is 14" measured horizontally from end of tractor's power shaft to a vertical line from the center of the hole for hitch pin as illustrated.
3. When connecting P.T.O. joint to power shaft, clean splines on shaft thoroughly.
CAUTION: Do not use steel hammer to aid in joining P.T.O. parts.
4. Adjust bearing supports so P.T.O. shaft is in a straight line. To adjust them, loosen bolts on clamps "A" at the top and bottom of supports and raise or lower supports to position desired. Tighten bolts.
- NOTE: Pivot bearings "B" can also be installed with the bearing up for high P.T.O. tractors.
5. The tractor wheels should straddle the corn rows and the snapping unit should be centered on the rows to be picked. This is attained by offsetting the tongue. Use one of the five holes in the hitch at "C" for proper alignment. Keep the tractor drawbar locked in its center position. When trans-

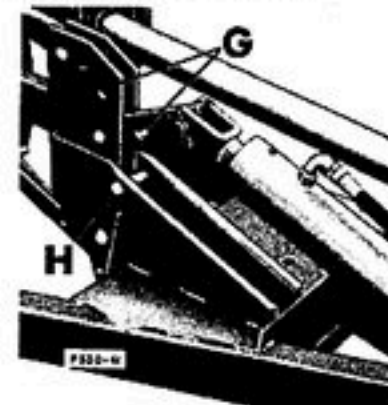


Figure 7

- porting, locate the tongue against the left side of hitch (at rear) and insert bolt or pin in hole at "C".
6. For operator convenience a double acting cylinder can be installed at "D" to offset the hitch as described in Step 5. Any double acting cylinder can be used providing it conforms to these standards, 20-1/8" contracted to 28-1/8" extended.
- NOTE: REMOVE PIN FROM HOLE AT "C" PRIOR TO OPERATION.
7. The double acting (or single acting) lift cylinder "E" must conform to the standards described in Step 6. Place hoses in clamps at "F".



When working below the gathering unit or when disconnecting the cylinder, raise the gathering unit all the way up with the cylinder first. Then remove lock pin from lift link and support as indicated at "G" (Fig. 7). Reinsert lock pin through hole in anchor bracket at "H".
BE CAREFUL! "YOUR SAFETY IS INVOLVED."

8. Insert chain for wagon elevator deflector in key slot on support stand at "J". Adjust stand according to tractor height. Attach throw-out rope and rope for wagon hitch pin to some point on the tractor.

Repositioning Wheels and Replacing Shear Bolt for Main Drive



Figure 8

Fig. 8 - Under certain field conditions such as down or frozen corn, the operator may want to raise or lower the picker frame. When 20" wheels are being used, we recommend that either of the two lower sets of holes be used. When 24" wheels are used, use either the upper or center sets of holes. Shear bolt "J" protects the main drive. When replacing; use special hardened bolt, Part No. 010058, for 540 RPM, and Part No. K5012 for 1000 RPM. Use a flat washer with a locknut on shear bolts.

NO. 324 AND 325 TWO ROW PICKERS

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OPERATING AND ADJUSTING (CONT'D)

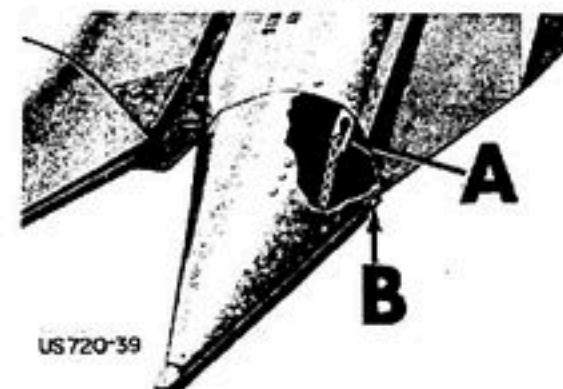
Gathering Chain



Figure 9

Fig. 9 - We suggest running the gathering chains on the slack side. To adjust the upper chains, loosen nuts "A" and reset idler sprockets. To adjust the lower chains, readjust the chain slides accordingly.
NOTE: • If chains are run too tight, sprockets and chain will wear excessively and will increase stalk breakage. Both sides are adjusted in the same manner.
• Should stalks or other foreign material become congested at the upper ends of the long gathering chains and cause the clutches to slip excessively, the chains can be reversed to help prevent this condition. The open side of the fingers would then lead in the direction to travel.

Floating Shoes



US720-39

Figure 10

Fig. 10 - When picking in normal conditions, the cast toe at the outer end of the shoe should just make contact with the ground. The shoe should be adjusted so it floats or follows the contour of the ground. In down conditions, adjust the shoes all the way up with the bottom of the shoes close to the ground. To adjust the height of the floating shoes, disconnect the chain from the fastener at "A", raise or lower the shoe and fasten chain link desired to fastener. All shoes should be adjusted alike.
Both outside floating shoes are adjustable either in or out by removing bolt and bushing "B". Use the front hole in the shoe for normal conditions. Use the rear hole when in down corn.

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Timing Clearing Rolls

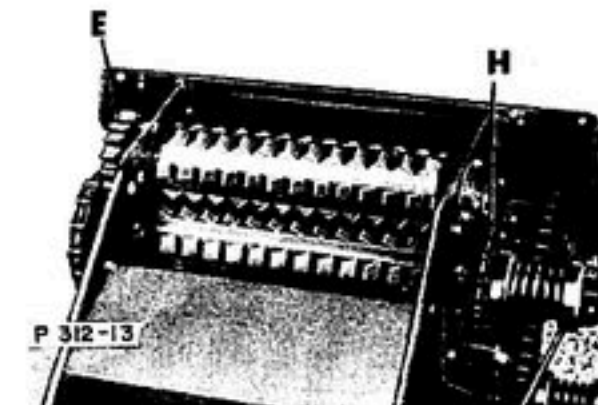


Figure 11

Fig. 11 - Clearing rolls are timed by removing spur gear "E", then turn upper roll until the teeth on upper roll will run between two rows of teeth on lower roll. Replace gear "E".

First Elevator Conveyor

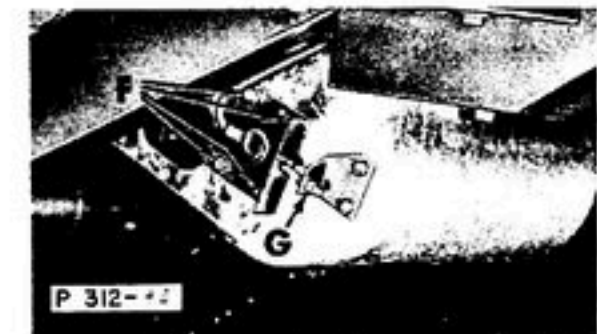


Figure 12

Fig. 12 - Loosen bolts "F" at the lower end of first elevator (both sides). Adjust nuts on bolts "G" to loosen or tighten conveyor. Conveyor should be adjusted so that when a flight is lifted (at the middle of the conveyor) it can be raised from 2 to 2-1/2". Tighten bolts.

NOTE: Should it be desirable to speed up the first elevator due to heavy crop conditions, a speed-up sprocket is available through our Repair Department under Part No. 304056. Interchange this sprocket with sprocket "H" (Fig. 11).

OPERATING AND ADJUSTING (CONT'D)

Snapping Rolls

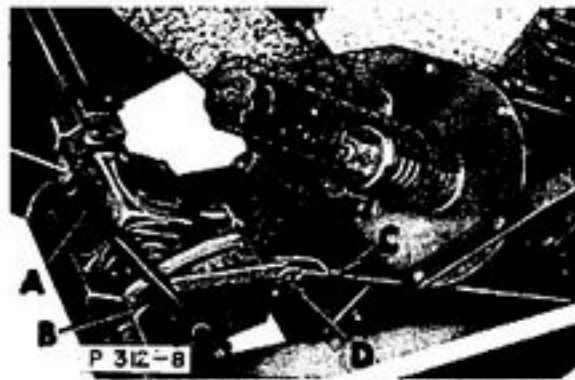


Figure 13

Fig. 13 and 14 - By moving lever "A" (Fig. 13) forward on sector, the rolls will open, and toward the rear they will close. With lever "A" (Fig. 13) in the closed position "B" on the sector, the lobes on the rolls should not strike. If they strike -- loosen nut "C" (Fig. 13), and remove drilled rivet "D", adjust clevis to the point where lobes just clear at point indicated at "E" (Fig. 14). If the rolls cannot be adjusted close enough after trying the preceding adjustment, proceed as follows:

Beater and First Elevator Drive Chains and Clutch

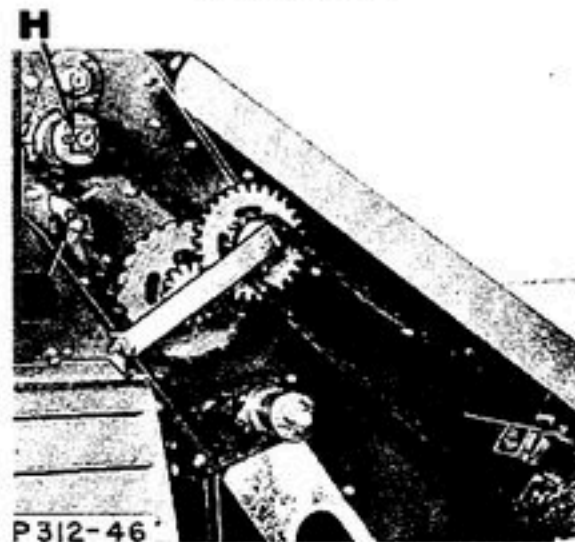


Figure 15

Fig. 15 - To adjust the beater drive chain, loosen bolt "F" on chain slide. Adjust the chain to the point where it will not whip or jump off the sprockets. Adjust the first elevator drive chain with chain slide "G". Adjust this chain to the same tightness as described above. Clutch assembly "H" protects the first elevator. For proper adjustment of clutch see "Field Operation" Page 6.

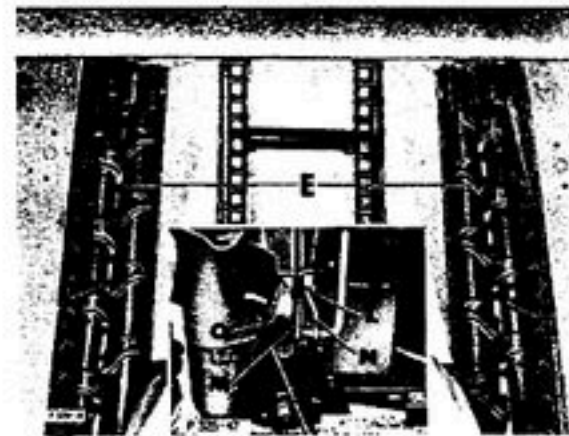


Figure 14

Loosen the three cap screws "L" (Fig. 14) in cam. Rotate adjustment lever "N" (Fig. 14) so as to use more of the cam surface. If this will not allow proper adjustment remove one of the washers shown at "M" (Fig. 14) and place it between cam "O" and frame. NOTE: Turn rolls slowly and make adjustment with the lobes at their closest points. Both units are adjusted in the same manner.

Counter Shaft and Clearing Roll Drive Chains and Clutch



Figure 16

Fig. 16 - To adjust the counter shaft drive chain, loosen bolt "I" on chain slide. Adjust chain to the point where it will not whip or jump off the sprockets. Adjust the clearing roll drive chain with chain slide "J". Adjust this chain to the same tightness as described above. Clutch assembly "K" protects the clearing rolls. For proper adjustment see "Field Operation" Page 6.

NO. 324 AND NO. 325 TWO ROW PICKERS

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OPERATING AND ADJUSTING (CONT'D)

Short Gathering Chain and Snapping Roll Drive Chains, Also Long and Short

Gathering Chain Clutches and Gear Boxes

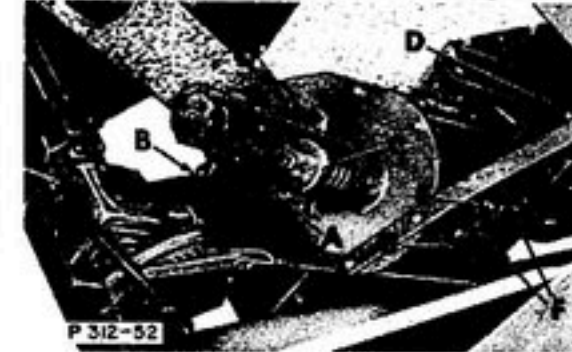


Figure 17

Fig. 17 - To adjust the short gathering chain and snapping roll drive chains, loosen bolts "A" and "B" on chain slides. Adjust both of these chains to the point where all slack has been removed. Clutch "C" protects the short gathering chain drive. Clutch "D" protects the long gathering chain drive. For

Removing and Reassembling Right and Left Snapping Unit Gear Boxes

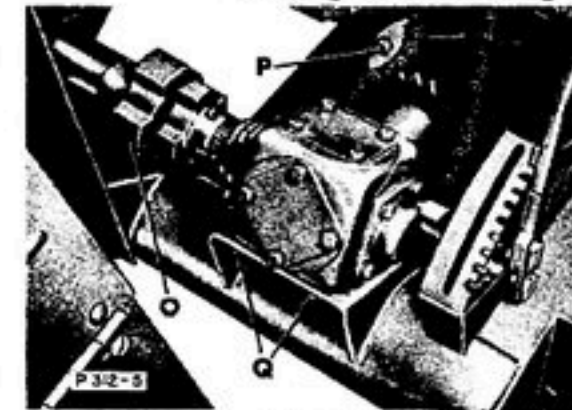


Figure 18

Figs. 18 and 19 - For ease of servicing these gear boxes, remove them in the following sequence:

1. Remove cotter pin from coupling "O" (Fig. 18), then slide coupling to the left as shown.
2. Remove bolt and chain slide "P".
3. Remove the five cap screws "Q" holding gear box to frame. Gear box can now be removed.

The left gear box can be removed in the same manner. After dismantling the gear box reassemble it in the following sequence:

1. Insert the input shaft assembly "L" into box using .030 thickness of shims at "M", then bolt to gear box.
2. Adjust bearings on input shaft "L" by adding or removing shims "N". Adjust these bearings to the point where they have a slight drag. .005 to .020 shims are available. See repair drawing.
3. Adjust nut "I" (Fig. 19) on the output shaft assembly "J" so there is a slight drag on the bearings.

NOTE: Bearing cones and seals in the assemblies illustrated above are replaceable. See Repair drawing.

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proper adjustment of these two clutches see "Field Operation", Page 6.

The gears in the long gathering chain gear box "E" are to be meshed to have from .007 to .017 backlash. This is attained by adding or removing shims at "F". Bearings on ratchet shaft are adjusted by adding or removing shims at "G". These bearings should be adjusted to the point where all end-play has been removed from shaft.

To remove end-play from clutch shaft "C", remove large 33 tooth spur gear illustrated in Fig. 24, Page 14 and adjust the threaded locking collar on shaft until all end-play has been removed.

The gears in the short gathering chain gear boxes should also be meshed to have from .007 to .017 backlash. The adjustment on these gear boxes is much the same as on the long gathering chain gear boxes. Gears are set up in both boxes where the 14 tooth gear drives the 15.

NOTE: All of these adjustments pertain to both the right and left units.

If the gear boxes have been flushed, make sure to refill them as specified on Page 8.

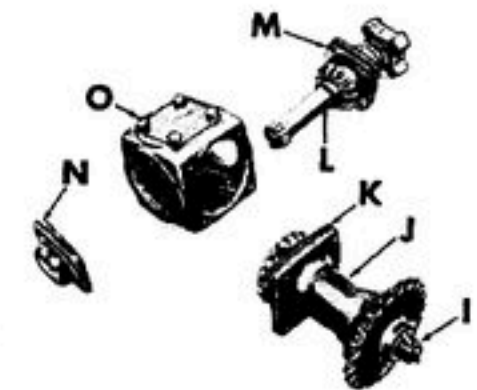


Figure 19

4. Insert the output shaft assembly into box using .030 thickness of shims at "K", then bolt to gear box.

5. Now check backlash of gears. There should be from .008 to .020. If there is not -- add or remove shims at "K" and "M". .005 and .020 shims are available. See repair parts.

Assemble the left gear box in the same manner. Remember: When assembling the left gear box the shims used next to the gears are for backlash. The shims used on the left end of the input shaft are for bearing adjustment.

- NOTES: 1. Make sure that breather and bolt "O" are in place as shown. Also after reinstalling gear box refill to the level of main shaft with #90 transmission oil.
2. Permatex the (4) 1/2" cap screw holding gear box to axle frame to prevent oil leakage.

OPERATING AND ADJUSTING (CONT'D)

Reassembling Main Gear Case

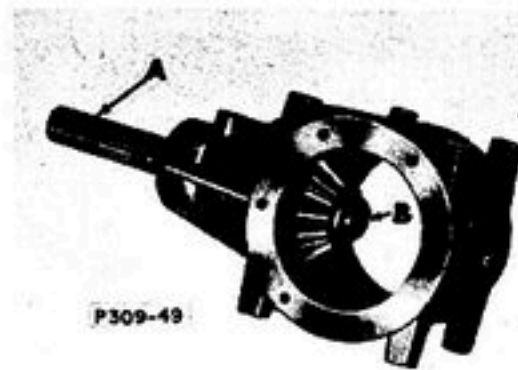


Figure 20

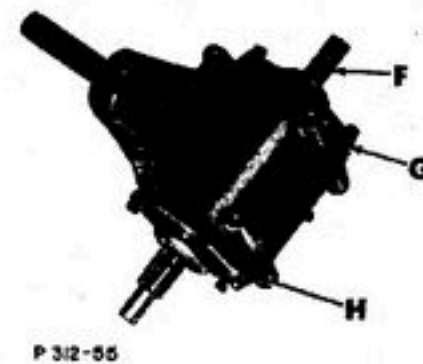


Figure 22

Figs. 20, 21 and 22. Be sure gear case is positioned with filler plug on the top side as shown, then assemble in the following steps:

1. Install output shaft assembly "A" (Fig. 20) as shown. Draw nut "B" (Fig. 20) up tight, then back off 1/4 turn, bend lip of locking washer down to secure nut. This should leave a slight drag on the bearings.

NOTE: Bearings, cups and seals on this shaft are replaceable. See Repair Drawing.

IMPORTANT: TO PROTECT SEALS FROM DAMAGE WHEN REPLACING, USE SHIM STOCK ON THE SHAFT TO SLIDE THE SEAL OVER SPLINES OR KEYWAYS.

2. Slide gear "C" and bearings "D" (Fig. 21) onto input shaft as shown.
3. Insert input shaft assembly "F" (Fig. 22) into case followed with necessary shims and cover at "G". Add or remove shims at "G" to attain .008 to .020 backlash on gears.

4. Install cover and necessary shims at "H" (Fig. 22) to adjust bearings on input shaft. Add or remove shims at "H" until bearings have a slight drag.

NOTE: Two different thickness of shims can be used at "G" and "H" (Fig. 22). They are, .005 and .020 thick.

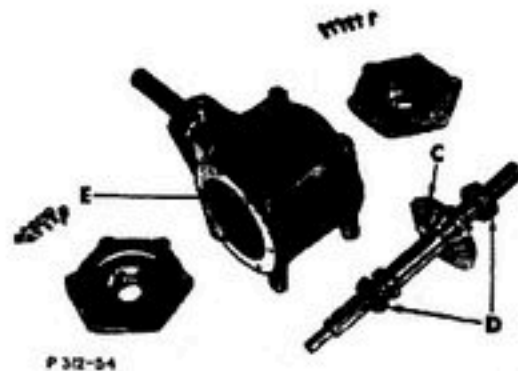


Figure 21

AFTER THE GEAR CASE HAS BEEN REINSTALLED ON THE MACHINE MAKE SURE TO FILL IT TO THE CHECK LEVEL PLUG WITH #90 TRANSMISSION OIL.

OPERATING AND ADJUSTING (CONT'D)

Guide for Removing and Timing Snapping Rolls

Removing Necessary Parts from Upper End of Rolls

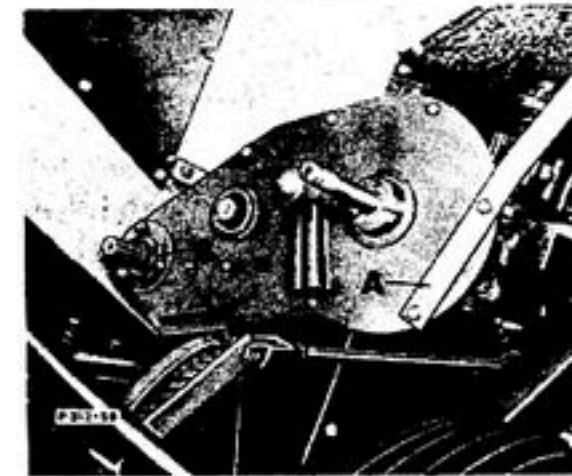


Figure 23

Fig. 23 - Remove drive chains, sprockets, and clutch parts as shown. Remove brace "A". Remove bolts from bearing flanges "B". Pull out on the shaft to remove shaft and bearing assembly, then remove the cover.

Removing Entry Guides and Bearing Bolts

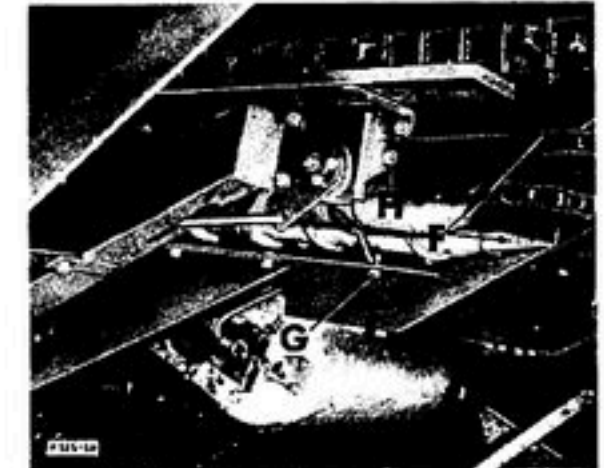


Figure 25

Fig. 25 - Remove entry guides "F" at lower end of rolls. Remove cap screws "G" (one on bottom as shown and one on side) holding inside bearing. Remove bolt "H" holding outside bearing. Remove cotter pin from spring tension bolt. Slide spring tension bolt out of bearing housing. The snapping rolls can now be removed.

Reverse procedure in Figs. 23, 24, and 25 to replace rolls.

NOTE: WHEN REPLACING ROLLS REPLACE ALL PARTS (AND TIGHTEN ALL BOLTS) AT UPPER END OF ROLLS FIRST, THEN TIGHTEN BOLTS AT LOWER END OF ROLLS.

Removing Gear Cover and Spur Gears

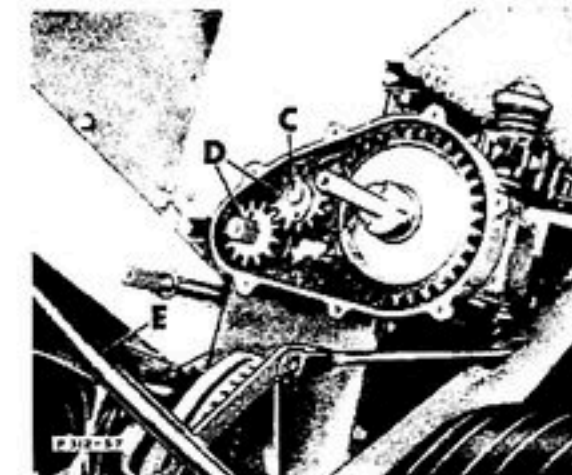


Figure 24

Fig. 24 - Remove wire, cap screw and locking washers "C". Gears "D", can now be removed. Move snapping roll adjustment lever "E" forward, so the rolls are opened to maximum width.

NOTE: When replacing oblong locking washer, make sure the indentation is seated into hole on gear and the wire replaced through cap screw and oblong washer.

Timing Snapping Rolls



Figure 26

Fig. 26 - When replacing rolls they are to be timed with the long breaker bar attached to lobe on one roll next to a short breaker bar on other roll as shown at "T". Timing is determined with the spur gears at the upper end of rolls.

NOTE: LOBES SHOULD NEVER STRIKE. For proper adjustment see Figs. 13 and 14, Page 11.

OPERATING AND ADJUSTING (CONT'D)

Replacing Trunnion at Upper End of Rolls



P 312-59

Figure 27

Fig. 27 - When replacing trunnion, take these steps before replacing:

1. Carefully measure the distance that the old trunnion projects out of the roll as shown.
2. Cut off the old trunnion at the roll.
3. Drive out the pin through roll and trunnion.
4. Press the new trunnion into roll pushing the stub ahead of it into roll, stop at measured distance determined in Step 1.
5. Drill a hole through trunnion for drive pin, drive pin into place.

Replacing Stub Shafts at the Lower End of Snapping Rolls

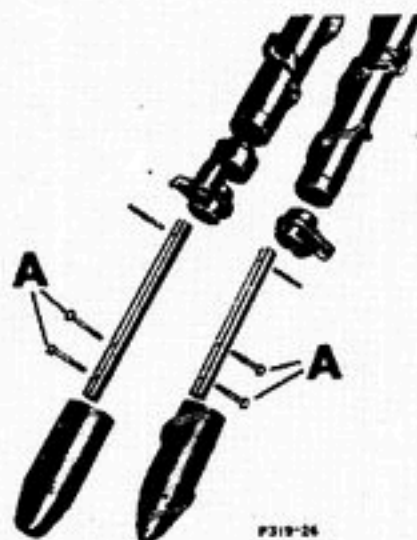


Figure 28

Fig. 28 - The components of the lower end of snapping rolls are as shown. If the stub shafts "A" need to be replaced, take these steps before replacing:

1. Carefully measure the distance that the old shaft projects out of the roll (Similar to Fig. 27).
2. Cut off the old shaft at the roll.
3. Drive out the pin through the roll and shaft.
4. Press new shaft into roll, aligning the two lower holes in stub shaft with lower hole in snapping roll, pushing the stub ahead of it into the roll, stop at measured distance determined in Step 1.
5. Drill a hole through trunnion for drive pin, then install a new drive pin.
6. Install lower nose cone so the spiral is in line with snapping roll spiral.

NOTE: When replacing bolts in nose cones, make sure to use hardened Grade 5 machine bolts, Part No. 012841.

SHIPPING BUNDLES AND ASSEMBLY PROCEDURE

Shipping Bundles for No. 324 Picker

Bdle. No.	Description
324-0009	Gathering Unit Bundle
330-0008	Hitch Bundle

Optional Bundles Required for the 324 and 325 Pickers

Bdle. No.	Description
311-0005	Hydraulic Lift Bundle (Single Acting)
324-0005	Drive shaft complete, standard, 540 RPM
NOTE: See page 22 for special heavy duty 540 and 1000 RPM power shaft bundles.	

Shipping Bundles for No. 325 Picker

Bdle. No.	Description
325-0006	Gathering Unit Bundle
330-0008	Hitch Bundle

Bdle. No.	Description
12A-U	Disc wheel 24" x 7 WD - less tire
12A-X	Wheel 24" x 7 WD - with 7.50 x 24" tire
200-T	Disc wheel 20" x 7 - less tire
200-U	Disc wheel 20" x 7 with 7.50 x 20" tire
200-W	Wheel 20" x 5.50 semi DC - less tire

Optional Attachment Bundles for the 324 and 325 Pickers

Bdle. No.	Description	Bdle. No.	Description
311-0003	Beater Bundle (Standard on 325, Optional on 324)	324-0006	Mud Scraper Bundle
311-0010	Secondary Beater (324)	324-0008	Stalk Deflector
312-0003	Secondary Beater (325)	1010	Jack

Important Pre-Assembly Notes

- Determine right or left side of picker by viewing it from the rear.
- Lay out bundles and cut wires so parts are easily accessible.
- Unless instructions specify otherwise, leave bolts loose going back to tighten any particular series

- when instructions suggest that it be done.
- Sort out bolts according to types and sizes and use according to assembly instructions.
- Unless instructions specify otherwise, use lockwashers on all bolts.

Axle and Wheels



Figure 29

Fig. 29 - If an eight roll husking bed, 314 sheller or grinder is being mounted, attach axles to front axle position as shown. If a twelve roll husking bed or 329 sheller is mounted, use the rear axle positions. However, the axles must be positioned as shown above in order to pull the unit over onto its wheels, then reposition axles to the rear position for the twelve roll bed. Note in particular how the right and left axle assemblies are installed. ATTACH THEM TO FRAME WITH OFF-SET TO REAR (OR OUT AT THE TOP) AS SHOWN AT "B".

Attach the right stub axle to frame at "A" (top and bottom) using 1/2 x 1-3/4" hardened machine bolts. Hardened machine bolts are identified with three marks on the head. See Page 9, Fig. 8, for wheel positions. Attach tire and rim assemblies to hubs using 9/16 x 1-1/2" hub bolts. Tighten bolts. Attach the left side in the same manner.

Lowering Picker Onto Wheels



Figure 30

Fig. 30 - NEVER UNDER ANY CONDITIONS SHOULD YOU TRY TO LOWER THIS UNIT BY HAND. REMEMBER: SAFETY IS NO ACCIDENT! Using a loader and chains as shown or a hoist, lower the unit onto the wheels. DO NOT ALLOW THE UNIT TO FALL TO THE FLOOR. KEEP SLACK OUT OF CHAIN. LOWER GENTLY TO FLOOR. Place a support under the frame at the lower end of the rolls and let the unit rest at this point. Now remove shipping stands shown in Fig. 29. Crating on the back side of machine can now be removed. Fill main gear box, snapping unit gear boxes and long gathering chain gear boxes with No. 90 transmission oil to level specified on Page 8.

ASSEMBLY PROCEDURE (CONT'D)

Wheel Shield

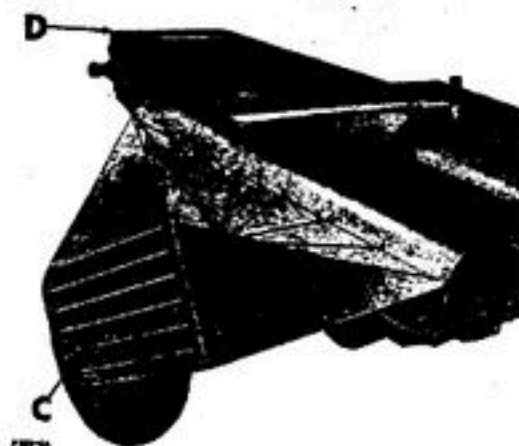


Figure 31

Fig. 31 - Remove the crating board from over deflector cover at "D". Bolt deflector to side sheets using 5/16 x 5/8" machine screws. Tighten bolts.

Attach the wheel shield as follows:

1. Attach wheel shield to underside of long galvanized roll using eight 5/16 x 1/2" machine screws with heads to outside as shown at "A".
2. At "B" use two 5/16 x 3/4" machine screws through shield and brace.
3. Attach wheel shield to axle at "C" using a 1/2 x 1" machine bolt and 17/32" I.D. x 1-1/16" O.D. x 3/32" washer. Tighten all bolts.

Right and Left Floating Shoes

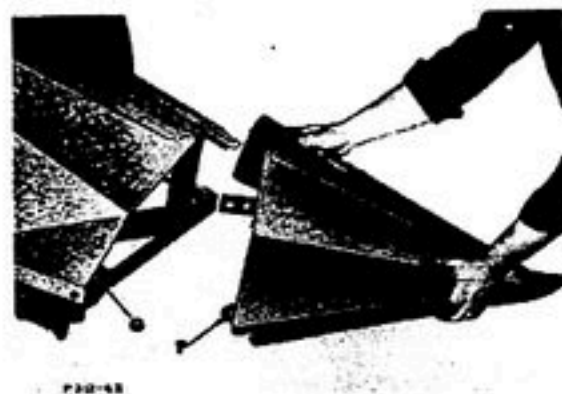


Figure 33

Figs. 33 and 33A-1 Remove cotter pins and drilled rivets from both shoes. Remove bolts, bushing and washers from pivot support assemblies. Position shoe as shown in Fig. 33 and attach in this manner:

1. Position hole in bracket "F" (Fig. 33) over stud "G".
2. Insert bolt through shoe, frame and brace at "F" (Fig. 33A) using bushing and washer. Hole used in

Center Floating Shoe

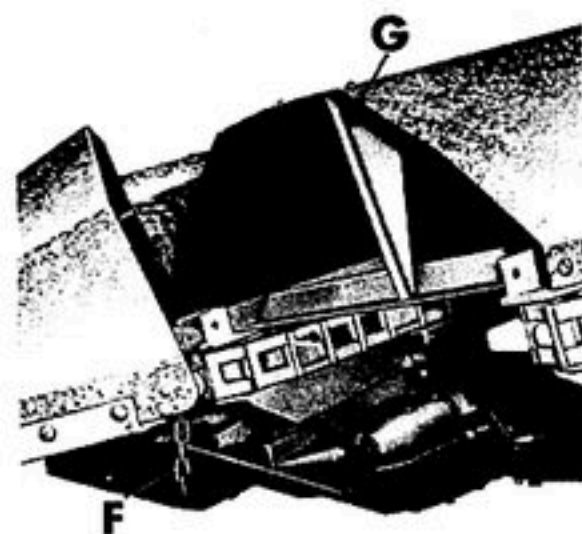


Figure 32

Fig. 32 - Remove cotter pins and drilled rivets from shoe.

Install shoe using two pins and cotter pins at "D". Raise shoe high enough to permit chain "F" to enter key slot "G". For proper adjustment see Fig. 10 Page 10.

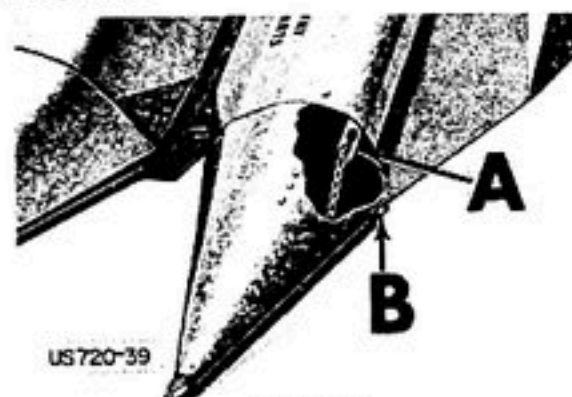


Figure 33A

shoe depends on picking conditions and row width.

3. Raise the shoe high enough to permit the chain to enter the key slot at "A".

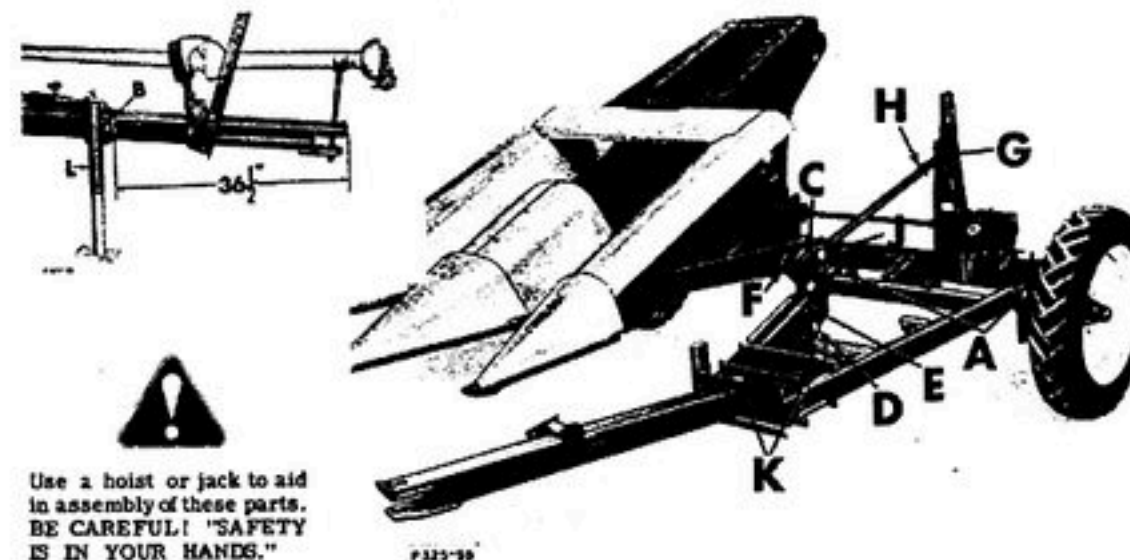
For proper floating shoe adjustment see Fig. 10 Page 10.

NO. 324 AND NO. 325 TWO ROW PICKERS

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ASSEMBLY PROCEDURE

Hitch, Tongue and "Optional" Jack



Use a hoist or jack to aid in assembly of these parts. BE CAREFUL! "SAFETY IS IN YOUR HANDS."

Fig. 34 -

1. Attach the hitch assembly to the axle at "A" using 3/4 x 1-3/4" drilled rivets with 3/16 x 1-1/2" cotter pins.
2. If the "optional" jack "L" is being used, install it as follows: Locate the jack swivel assembly "E" so it is 36-1/2" from the top front edge of hitch nose as indicated. The lip on the jack swivel goes to the bottom side of the hitch. Weld both sides to the hitch. Install the jack and secure in place with the retaining ring.
3. Insert pivot bracket "C" into anchor bracket on hitch. Secure in place at "D" using a 1 x 3" drilled rivet with a 1/4 x 1-3/4" cotter pin. Insert a 1 x 3-1/4" drilled rivet with a 1/4 x 1-3/4" cotter pin at "E". Pin "E" serves as a lock pin when the cylinder is not hooked up.
4. Insert cylinder lift link "F" into pivot bracket. Secure in place using a 1 x 2-1/2" drilled rivet

Figure 34

- with a 1/4 x 1-3/4" cotter pin.
5. Attach upper half of push rod to frame at "G" using a 1/2 x 1-3/4" machine bolt with a 3/4" O.D. x 1/2" long spacer. Slide the lower half of push rod into the upper half and secure in place at "H" using a 1/2 x 2" drilled rivet with 1/8 x 1" cotter pin. NOTE: Use holes desired to attain maximum raising and lowering of the gathering unit. Tire size and axle position depend on holes used. Attach lower end of push rod to pivot bracket at "J" using a 1 x 2-1/2" drilled rivet with a 1/4 x 1-3/4" cotter pin.
6. Insert the tongue into hitch and secure in place at "K" using a 1 x 6" machine bolt in the front hole and a 1 x 6" drilled rivet with a 1/4 x 1-3/4" cotter pin in the rear hole. See Page 9, Fig. 6, for hitch position.

Rear Power Shaft

NOTE: See Page 22 for special heavy duty 540 & 1000 R.P.M. power shaft installation.



Figure 35

Fig. 35 - If a Husking unit is being used, place belt "C" (shortest of the two belts shipped) over sheave prior to installing power shaft. No belt required for Sheller or Grinder. Remove paint from input shaft on gear case and hubs on power shaft. Slide power shaft onto input shaft, secure in place using a special 3/8 x 1" left hand thread hardened machine bolt, lockwasher and 13/32" I.D. x 1-11/32" O.D. x 3/16" thick flat washer at "D". At "E" insert a 5/16 x 2" hardened Grade 5, machine bolt. On back side of the bolt use a 11/32" I.D. x 11/16" O.D. x 1/16" thick washer. Nut on bolt is a locknut and is identified by three marks around it.

NOTE: Five extra shear bolts, flat washers and locknuts will be found in a small cotton bag. They are to be given to the user.

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ASSEMBLY PROCEDURE (CONT'D)

Front Power Shaft and Support Stand

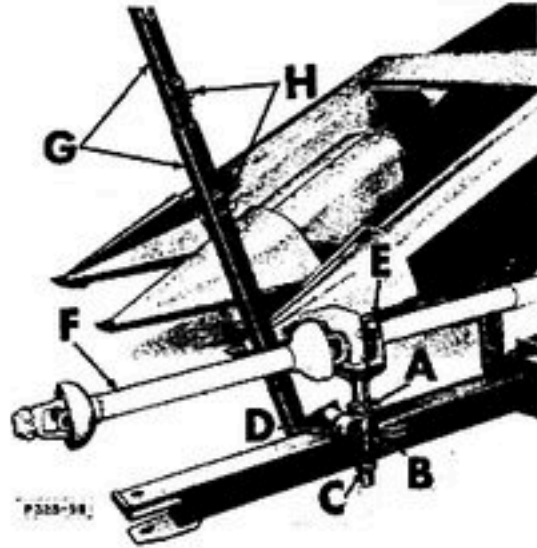


Figure 36

- Fig. 36 -
1. Slide bearing clamp "A" onto yoke shaft, follow with pivot bearing "B", then another clamp at "C". Snug clamp bolts.

2. Place a 1-9/32" I.D. x 2" O.D. x 3/32" washer on pivot shaft at "D" between bearings. Insert shaft through bearing in hitch, place another washer on other end of shaft. Secure in place using a 1/4 x 2" cotter pin.
3. Bolt rear power shaft assembly to yoke at "E" using a 1/2 x 7" machine bolt with a 5/8" O.D. x 5-9/16" long bushing in bearing housing. Use a self-locking nut on bolt. Tighten bolt.
4. Remove paint from splined shaft and yokes.
5. Slide front P.T.O. assembly "F" onto center shaft and secure in place using setscrew and jam nut found in joint. Make sure countersunk hole in rear shaft is aligned properly before tightening setscrew.
- NOTE: For proper shaft alignment, See Fig. 6, Page 9.
6. Bolt support assembly "G" together and attach to tongue using 3/8 x 1" machine bolts. Adjust support according to tractor being used.
7. Attach hose clamps "H" to supports using 5/16 x 3-1/2" machine bolts with compression springs, 11/32" I.D. x 11/16" O.D. x 1/16" washers and locknuts.

Lift Cylinder

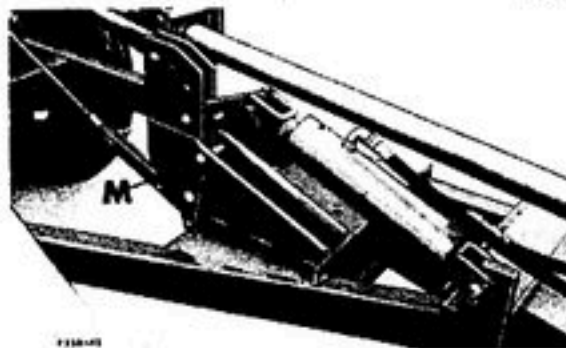


Figure 37

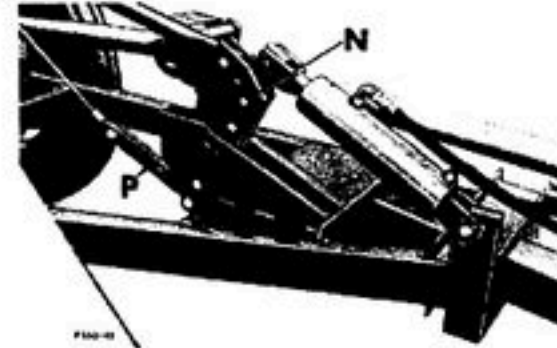


Figure 38

NOTE: Any single or double acting cylinder can be used providing they conform to these standards: 20-1/8" contracted to 28-1/8" extended. See Page 9, Figure 6, if a cylinder is to be used to offset the hitch.

When mounting a No. 326 or 327 Husking Unit with a Lot No. prior to P-400, cable straps "P" (Fig. 38) will be required. Order through our Parts Dept. as follows: (2) 308976 straps, (1) 013209 drilled rivet, (1) 010217 cotter pin. On husking units built after P-400, these parts are shipped with those machines.

Assist Springs For Single Acting Cylinders

Fig. 39 - Attach spring bracket "A" to hitch using the 3/8 x 1" machine bolts found in the bracket. Attach springs to upper bracket at "B" as shown. Insert the 7/16 x 8" machine bolts through the bottom bracket and into springs using 1/2" I.D. x 1-1/4" O.D. x 1/16" washers under bolt heads at "C". Adjust springs to the point where the gathering unit comes back into picking position when cylinder is retracted.



Figure 39

NO. 324 AND NO. 325 TWO ROW PICKERS

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INSTALLATION OF OPTIONAL ATTACHMENTS

INSTALLATION OF OPTIONAL ATTACHMENTS

Secondary Beater Attachment

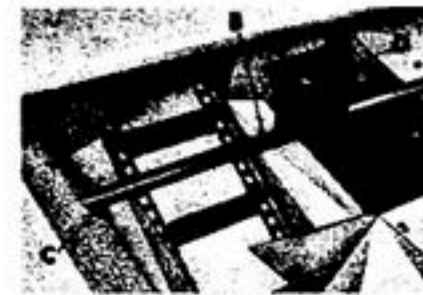


Figure 40

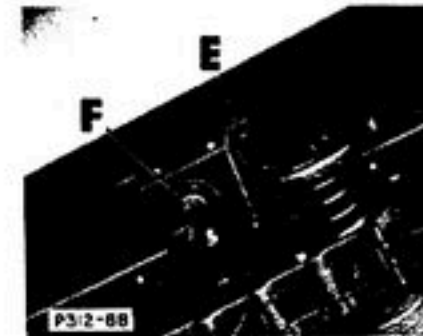


Figure 41



Figure 42

Figs. 40, 41 & 42 - When installing the secondary beater on the No. 325 Picker, the upper beater shaft "A" (Fig. 42) must be replaced with a longer shaft (35-1/8" long) found in the secondary beater bundle. When installing the secondary beater on a No. 324 Picker, the upper beater (described in Figs. 44, 45 & 46, Page 21) must be installed first. However, the 42-1/8" long shaft also found in the secondary beater bundle must be installed when installing the upper beater.

Proceed to install secondary beater as follows:

1. Insert lower beater shaft "B" (Fig. 40) through holes as shown.
- NOTE: Shaft is 48" long on 325 and 55" long on 324.
2. Place anti-wrap pipes "C" (Fig. 40) on shaft from outside in (long pipes for 324, short pipes for 325).
3. Attach beater blade "D" (Fig. 40) to shaft using 5/16 x 1-3/4" machine bolts.
4. Attach bearing brackets "E" (Figs. 41 & 42) using 5/16 x 3/4" machine screws. Tighten bolts.
5. Insert 1/8" N.P.T., 67-1/2" grease fittings in all three bearings shipped with the bundle. Slide one of these bearings onto the left end of shaft and into bracket as shown at "F" (Fig. 41). Place a 1-3/32" I.D. x 2" O.D., x 1/8" washer onto shaft next to bearing followed with a 3/16 x 1-1/2" cotter pin.
6. Place another bearing onto right end of shaft and into bearing bracket as shown at "G" (Fig. 42). Place a 1-3/32" I.D. x 2" O.D., x 1/8" washers (as required) between bearing and 3/16 x 1-1/2" cotter pin.
7. Place 9 tooth sprocket "H" (Fig. 42) on shaft securing it in place with a 5/16 x 2" drilled rivet and a 3/32 x 3/4" cotter pin.
8. Place support assembly "I" (Fig. 42) over shaft and secure to drive housing using housing bolts.
9. Attach bearing plate "J" (Fig. 42) to support using four 5/16 x 1" carriage bolts with 11/32" I.D., x 11/16" O.D., x 1/16" flat washers on the back side of support. Place a bearing on shaft inserting it into bearing plate "J".
10. Attach support brace to support at "K" (Fig. 42) with a 3/8 x 1" machine bolt. Use a 3/8 x 1-1/4" machine bolt at "L". Now tighten all bolts installed in Steps 8, 9 & 10.
11. Place 9 tooth sprocket "M" (Fig. 42) on shaft as shown. Align this sprocket with sprocket "H" using 1-3/32" I.D., x 2" O.D., x 1/8" washers (as required) between sprocket "M" and bearing. Secure sprocket to shaft using a 5/16 x 2" drilled rivet with a 3/32 x 3/4" cotter pin. Place drive chain on sprockets.
12. Place chain slide "N" (Fig. 42) over chain and attach to support using a 3/8 x 2-3/4" carriage bolt. Adjust slide to the point where the chain will not whip or jump teeth on the sprockets.

Mud Scraper - Right Wheel Only

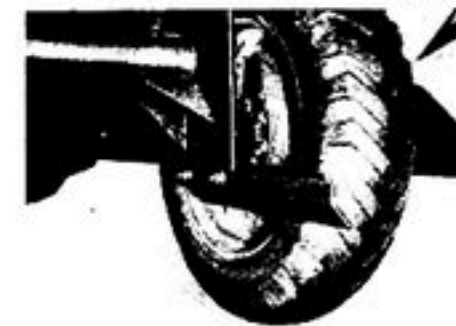


Figure 43

Fig. 43 - Bolt mud scraper to frame as shown using bolts and washers found in scraper. Place washers (as required) between frame and scraper at "A" to attain space desired between scraper and tire. Tighten bolts.

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INSTALLATION OF OPTIONAL ATTACHMENTS (CONT'D)

Upper Beater Attachment (Optional on No. 324 Picker) Drive Bracket

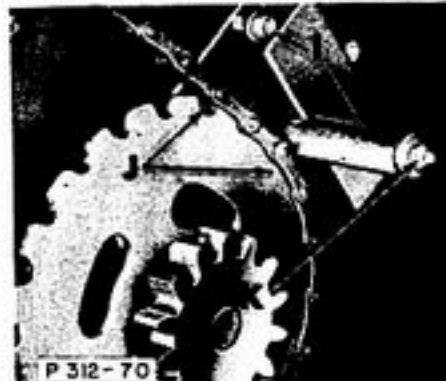


Figure 44

Fig. 44

1. Remove nuts "I" from side plate bolts.
2. Attach bracket as shown onto upper two bolts "I". At "J" use two 3/8 x 3/4" machine screws. Tighten bolts.
3. Insert a 1/8" N.P.T. grease fitting at "K".

Bearings, Bearing Plates, Sprocket, Chain Idler, Spur Gear and Brace



Figure 46

Fig. 46 -

1. Install bearing plates "C" (Both sides) using eight 5/16 x 1/2" machine screws (heads to inside). Tighten bolts.

Stalk Deflectors

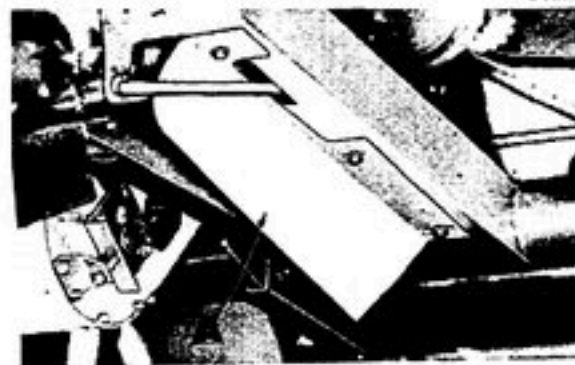


Figure 47

Beater Shaft and Flaps

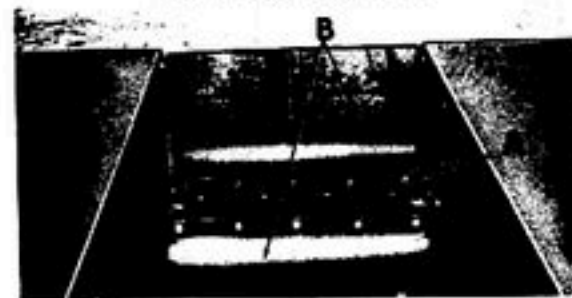


Figure 45

Fig. 45 - Install beater in the following sequence:

1. Insert shaft through side sheets centering it in the unit.
- NOTE: End with hole drilled 7/8" from end of shaft to center of first hole goes to the right side.
2. Overlap beater straps "A" over shaft and bolt in place using four 5/16 x 2" machine bolts.
3. Attach rubber flaps "B" to straps "A" using ten 5/16 x 1" machine bolts with 11/32" I.D. x 1-3/8" O.D. x 1/16" washers under bolt heads as shown. Tighten all bolts. No lock washers required.

2. Insert 1/8" N.P.T. grease fitting "D" into both bearings then slide bearings onto shaft into bearing plates. Place washers, 1-3/32" I.D. x 2" O.D. x 1/8" on either ends of shaft at "E" as required. Insert 3/16 x 1-1/2" cotter pins in both ends of shaft.
3. Slide 9 tooth sprocket "F" onto shaft as shown. Secure to shaft using a 5/16 x 2" drilled rivet and 3/32 x 3/4" cotter pin.
4. Attach idler bracket "G" to side sheet using two 3/8 x 3/4" machine screws. Tighten bolts. Attach chain slide "P" to idler bracket "G" using a 3/8 x 2-3/4" carriage bolt. Leave bolt loose.
5. Place a washer, 1-1/32" I.D. x 1-3/4" O.D. x 1/16" onto bracket stud (behind gear at "L"). Slide double gear onto stud followed with another washer.
6. Place brace "M" over stud, follow with an external snap ring at "N". Attach brace to side of machine at "O" using a 3/8 x 3/4" machine screw.
7. Install drive chain over sprockets and chain slide as shown. Adjust chain slide so slack has been removed from chain. Tighten bolt.

Fig. 47 - Position left hand deflector "A" below the gathering unit frame as shown and bolt in place using carriage bolts and flat washers furnished. Position deflector to center of slots to start with, then tighten bolts. The back side of the deflectors is adjustable either "in" or "out". Adjust according to conditions and results desired. Install the right hand deflector in the same manner.

NO. 324 AND NO. 325 TWO ROW PICKERS

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INSTALLATION OF OPTIONAL EQUIPMENT

SPECIAL HEAVY DUTY POWER SHAFT ASSEMBLY - BUNDLES FOR 540 R.P.M.

318-0008	Rear Drive Shaft
318-0009	Center Drive Section
318-0010	Front Drive Shaft

SPECIAL HEAVY DUTY POWER SHAFT ASSEMBLY - BUNDLES FOR 1000 R.P.M.

318-0011	Front Drive Shaft
318-0009	Center Drive Section
318-0012	Rear Drive Shaft

Power Shaft Assembly

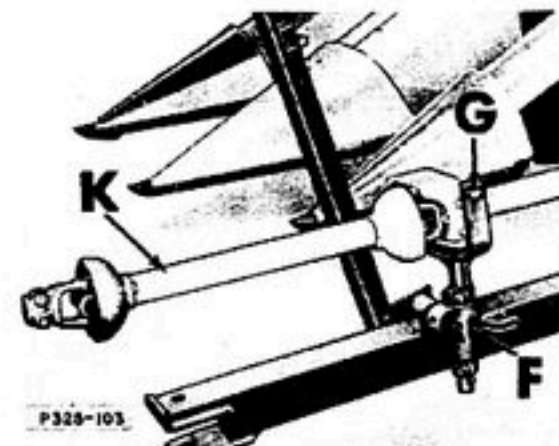


Figure 48

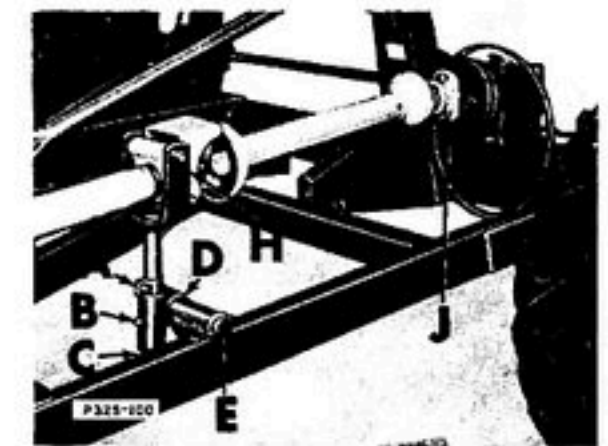


Figure 49

Figs. 48 & 49 - Note: The power shaft must be aligned with the tractor and the implement being mounted on the picker. See Page 9, Fig. 6 for shaft and bearing adjustment. Both the 540 and 1000 RPM power shafts install in the same manner except where noted. If the 1000 RPM drive is being installed, the gears in the main drive gear box will have to be reversed. Re-assemble the gear box as described on Page 13.

1. Slide bearing clamp "A" (Fig. 49) onto yoke shaft, follow with pivot bearing "B", then another clamp at "C". Snug clamp bolts.
2. Place a 1-9/32" I.D. x 2" O.D. x 3/32" washer on pivot shaft at "D" (Fig. 49). Insert shaft through bearing in hitch, place another washer on shaft at "E". Secure in place using a 1/4 x 2" cotter pin.
3. Install front bearing support assembly "F" (Fig. 48) in the same manner as the rear support except that it goes to the outside of the tongue.
4. Bolt center power shaft assembly to yokes at "G" (Fig. 48) and "H" (Fig. 49) using 1/2 x 7" machine bolts with a 5/8" O.D. x 5-9/16" long bushing in bearing housing. Use self locking nuts on bolts. Tighten bolts.
5. Remove paint from all splined shafts and yokes.
6. Slide rear P.T.O. assembly onto center power shaft at "H" (Fig. 49). Secure in place using set-

screw and jam nut found in joint. Make sure countersunk hole in shaft is aligned properly before tightening setscrew. Insert wire through setscrew and secure around yoke.

7. Slide shear hub onto input shaft at "J" (Fig. 49). NOTE: If a husking unit is being used, place the jack shaft drive belt (shortest of two belts shipped) over sheave next to gear box prior to installing power shaft. No belt required for sheller or grinder.

Slide power shaft onto input shaft. Secure in place using a 3/8 x 1" LEFT HAND THREAD machine bolt with a 13/32" I.D. x 1-11/32" O.D. x 3/16" hardened washer and lockwasher. Tighten bolt.

8. Bolt shear hubs together at "J" (Fig. 49) using 5/16 x 2" hardened, Grade 5, machine bolts for 540 RPM drive. Use 1/4 x 2" hardened, Grade 8, machine bolts for the 1000 RPM drive.
9. Slide front P.T.O. assembly "K" (Fig. 48) onto center shaft and secure in place using setscrew and jam nut found in joint. Make sure countersunk hole in rear shaft is aligned properly before tightening setscrew. Insert wire through setscrew and secure around yoke.

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ORDERING REPAIR PARTS AND INDEX TO REPAIR PARTS

WHEN ORDERING REPAIR PARTS

1. Order from your Avco New Idea Dealer.
2. Be sure to give Part Number and Description as it is written in the list accompanying each illustration of parts. (Do Not use Key Numbers when ordering parts.)
3. Please give Lot and Serial Number of Machine. It is to be found on a metal plate on the left front corner of the main frame (on lift pylon), and may be recorded in the box provided immediately below.
4. Be specific regarding shipping information.
5. Specify if part required is for use on left or right side of Picker. Determine by standing at rear of Picker and looking in the direction of travel.
6. Part description tells if more than one of part is used.



LOT No. _____

SERIAL No. _____

Enter Lot and Serial number here for future reference.

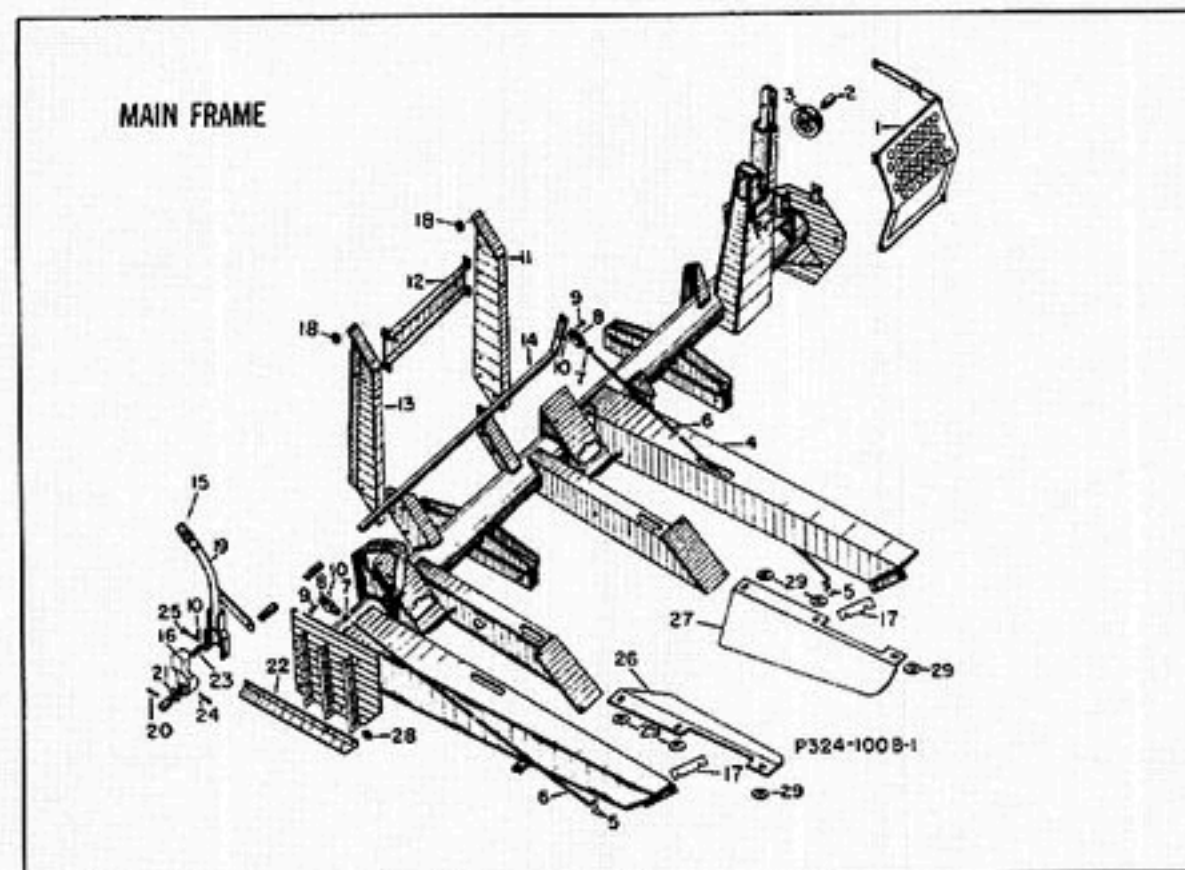
INDEX TO REPAIR PARTS

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REPAIR PARTS



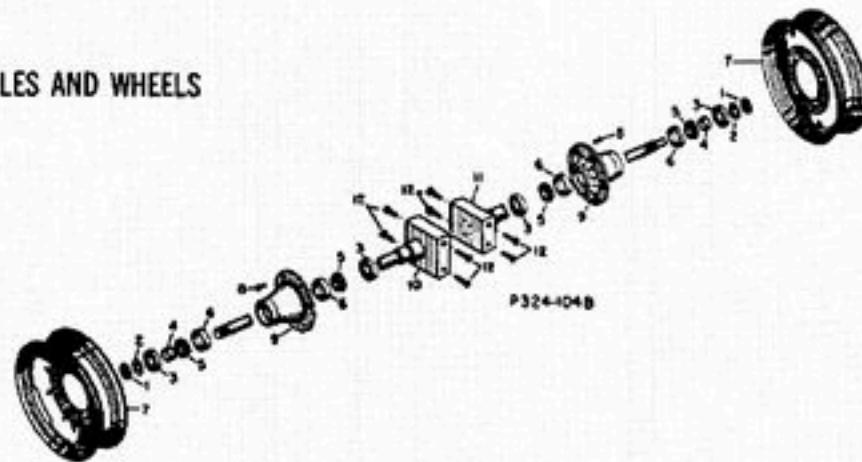
Key	Part Number	Part Description	Used
1	304873	Shield assembly	1
	013988	Machine screw, 5/16 x 3/4"	4
	013986	Machine screw, 5/16 x 1/2"	2
2	302761	Stud, 1" O.D. x 2-13/16" long	1
3	139 HS	Lift pulley, 1" bore, 4-5/8" dia., 1-1/2" wide	1
4	305321	Axle and main frame assembly (324 wide row)	1
	305331	Axle and main frame assembly (325 narrow row)	1
5	010215	Cotter pin, 1/8 x 1"	2
6	302132	Adjustment rod, 9/16" dia. x 44-1/4" long	2
7	K 580	Jam nut, 9/16"	2
8	106 PM	Adjustable yoke, 9/16"	2
9	013254	Rivet, drilled, 3/8 x 1-1/4"	2
10	010214	Cotter pin, 1/8 x 3/4"	3
11	302153	First elevator support, left	1
	014077	Machine bolt, 1/2 x 1"	4
12	302158	Brace, 20-7/8" long (324 wide row)	1
	302482	Brace, 13-7/8" long (325 narrow row)	1
	014077	Machine bolt, 1/2 x 1"	4
13	302154	First elevator support, right	1
	014077	Machine bolt, 1/2 x 1"	4
14	305936	Snapping roll lever arm assembly, 1" dia. shaft 53-15/16" long, (324 wide row)	1
	305938	Snapping roll lever arm assembly, 1" dia. shaft 46-15/16" long, (325 narrow row)	1
15	K 3377	Handle grip, 1"	1
16	303639	Pivot	1
17	303588	Shim, 1-1/2 x 5 x 1/16" thick	A.R.

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REPAIR PARTS

Key	Part Number	Part Description	Used
18	010491	Washer, 17/32" I.D. x 1" O.D. x 1/16"	4
19	303632	Snapping roll lever assembly, R.H.	1
20	K 3634	Roll pin, 1/4 x 1-3/8"	2
21	0125 HS	Washer, 1-1/16" I.D. x 1-23/64" O.D. x 1/16" thick (as required)	1
22	305367	Mud scraper, 2-1/2 x 1-3/4 x 24" long, x 5/16" thick	1
	013640	Machine bolt, 5/8 x 2"	2
23	M 958	Compression spring, 13/16" O.D. x 2-5/16" long, 8-1/2 coils	1
24	K 2833	Roll pin, 13/64 x 1-1/2"	1
25	013167	Drilled rivet, 3/8 x 2-3/8"	1
26	308192	Deflector, R.H. (Optional)	1
27	308193	Deflector, L.H. (Optional)	1
28	K 3206	Washer, 21/32" I.D. x 1-1/2" O.D. x 3/32" thick	A.R.
29	K 3004	Washer, 13/32" I.D. x 13/16" O.D. x 1/16" thick	6

AXLES AND WHEELS

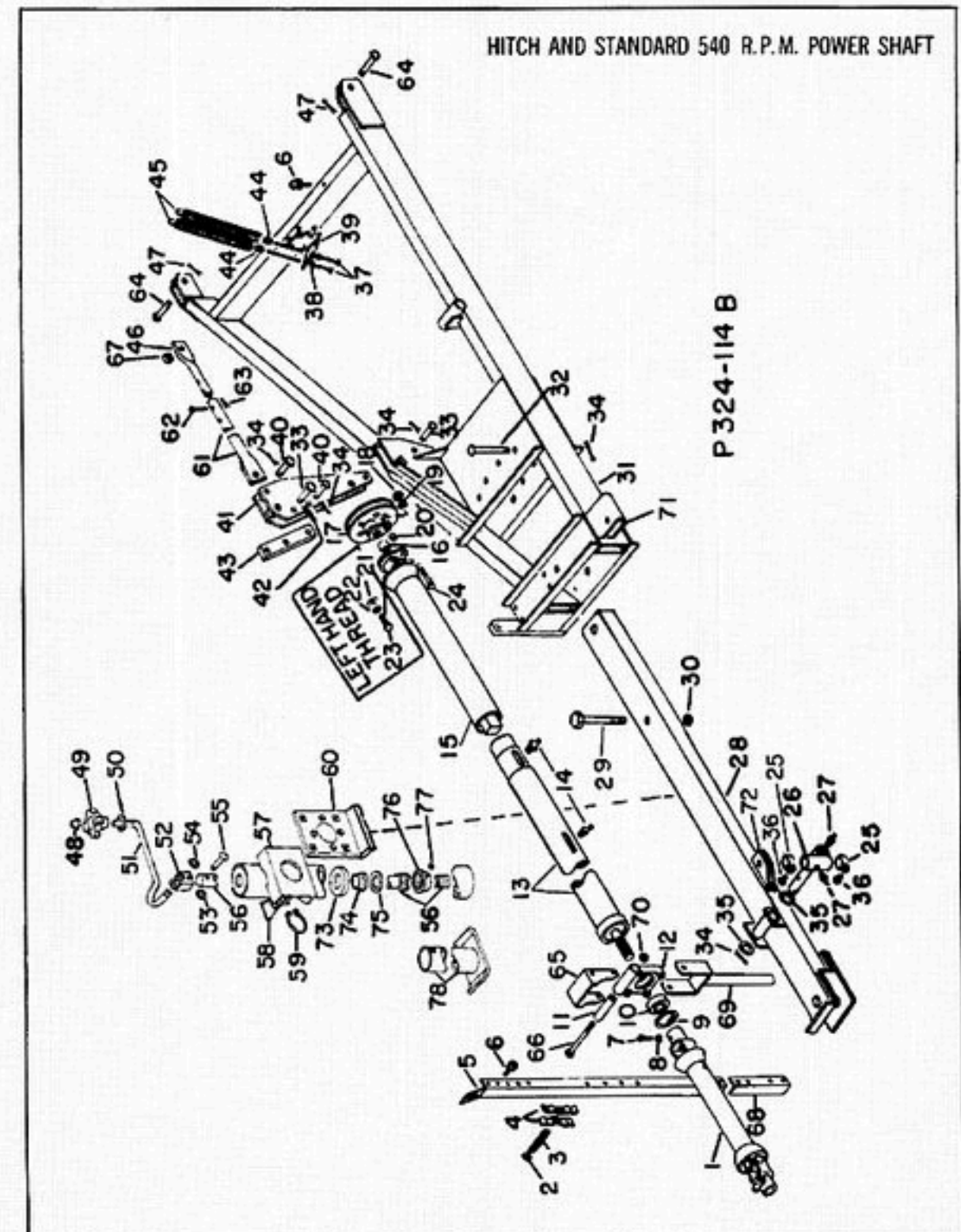


Key	Part Number	Part Description	Used
1	2634 P	Axle nut, 1-1/2" threaded 12 N.F.L.	2
2	2635 P	Washer locking type, 1-33/64" I.D. x 2-9/16" O.D. x 5/64" thick	2
3	K 3365	Oil seal, 1-13/16" I.D. x 2-9/16" O.D. x 1/2" thick	4
4	200839	Stub axle spacer, 1-1/2" I.D. x 1-13/16" O.D. x 21/32" long	2
5	K 4935	Bearing cone, 1-1/2" I.D.	4
6	K 4936	Bearing cup, 2-9/16" O.D.	4
7	K 3374	Disc wheel, 20 x 7 D.C.	2
	K 3174	Disc wheel, 24 x 7 D.C.	2
	K 2598A	Disc wheel, 20 x 5.50 D.C. with ring	2
	K 2599	Ring for disc wheel K 2598	2
8	1078 S	Hub bolt, 9/16" dia., 1-1/2" long	16
9	308243	Wheel hub with two bearing cups	2
10	305358	Stub axle, left, 9-5/8" long - 324 wide row	1
	305363	Stub axle, left, 12-5/8" long - 325 narrow row	1
11	305355	Stub axle, right, 9-5/8" long	1
	014077	Machine bolt, 1/2 x 1"	1
	K 3038	Washer, 17/32" I.D. x 1-1/16" O.D. x 3/32" thick	1
12	010476	Machine bolt, 1/2 x 1-1/4" hardened	8

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS



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REPAIR PARTS

Key	Part Number	Part Description	Used
1	010691	Front shield P.T.O. assembly, 1-3/8" spline	1
2	K 3037	Washer, 11/32" I.D. x 11/16" O.D. x 1/16" thick	1
3	1509 S	Compression spring, 13 coils, 2-5/8" long, 5/64" wire	1
4	0722 HS	Hose clips	2
5	305379	Support stand for control rope, 29-5/16" long	1
	013583	Machine bolt, 3/8 x 1"	2
6	K 3675	Eye bolt, 3/8"	2
7	K 4504	Set screw, 1/2 x 1-1/4" cone point	1
8	K 3187	Jam nut, 1/2"	1
9	K 4524	Snap ring external	1
10	K 3330	Bearing ball, 1-3/8" bore	1
11	270160	Spacer, 1/2" I.D. x 13/16" O.D. x 5-9/16" long	1
12	290454	P.T.O. bearing housing	1
13	K 4800A	Shielded drive assembly (front)	1
14	011976	Grease fitting, 1/4 x 28 N.S.T. straight	2
15	010321	Shielded drive assembly (rear)	1
16	K 3573	Bushing bronze sintered, 15/16" I.D. x 1-1/8" O.D. x 1-1/2" long	1
17	302724	Sheave assembly with 302432 bushing	1
18	010162	Locknut, 5/16"	1
19	011756	Washer, 11/32" I.D. x 1" O.D. x 3/32" thick	1
20	302432	Bushing, 11/32" I.D. x 5/8" O.D. x 3/4" long	1
21	012216	Washer, 13/32" I.D. x 1-11/32" O.D. x 3/16" thick	1
22	011937	Lockwasher, 3/8"	1
23	011583	Machine bolt, 3/8 x 1" (left hand thread) hardened	1
24	010058	Shear bolt, 5/16 x 2" hardened, Grade 5	1
25	01672 PM	Pivot bearing clamp	2
26	308174	P.T.O. pivot bearing	1
27	011962	Grease fitting, 1/8 N.P.T. straight	1
28	309025	Drawbar assembly	1
29	011695	Machine bolt, 1" x 6"	1
30	013479	Nut, 1"	1
31	308709	Hitch assembly	1
32	011696	Rivet, 1" x 5-1/4" drilled	1
33	011766	Rivet, 1" x 3-1/4" drilled	2
34	010244	Cotter pin, 1/4 x 1-3/4"	5
35	K 1780	Washer, 1-9/32" I.D. x 2" O.D. x 3/32" thick	2
36	012683	Machine bolt, 3/8 x 1-1/4", Grade 5	2
37	K 2701	Machine bolt, 7/16 x 8", full body	2
38	K 826	Washer, 1/2" I.D. x 1-1/4" O.D. x 1/16" thick	2
39	302426	Spring clip	1
40	011697	Rivet, 1" x 2-1/4" drilled	2
41	308936	Rocker plate assembly	1
42	2629 P	Pin clip	1
43	308730	Rocker arm	1
44	15 HS	Spring insert	2
45	0170 HSA	Lift spring, 47 total coils, 14" long, 17/64" wire with insert	2
46	309928	Pipe extension	1
47	010231	Cotter pin, 3/16" x 1-1/2"	2
48	291388	Cap washer	1
49	291383	Knob	1
50	291389	Washer	1
51	291241	Crank	1
52	291384	Screw cap	1
53	291380	X-Washer	1
54	291244	Retaining clip	1
55	291382	Crank pin	1
56	291247	Screw	1
57	291242	Upper tube assembly	1
58	291390	Plunger Assembly	1
59	014767	Retaining ring, external	1
60	291162	Swivel	1

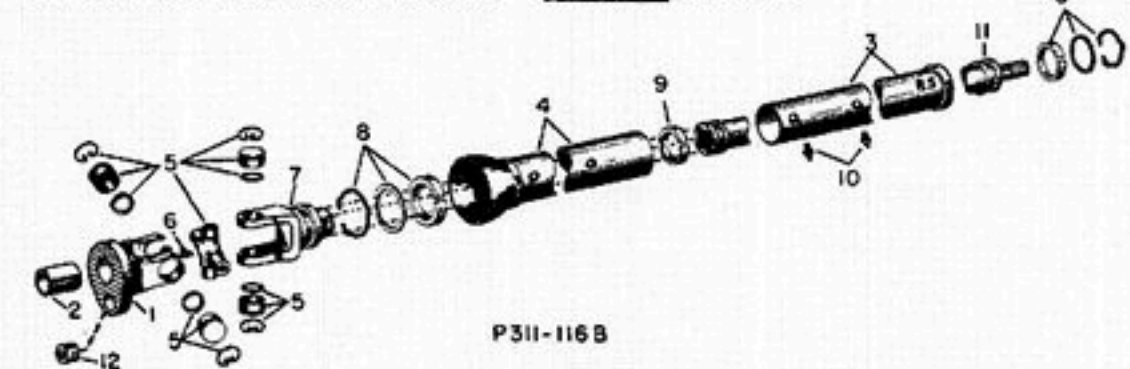
NO. 324 AND 325 TWO ROW PICKERS

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REPAIR PARTS

Key	Part Number	Part Description	Used
61	308946	Push rod	1
62	013191	Rivet, 1/2 x 2-1/2" drilled	2
63	010215	Cotter pin, 1/8 x 1"	2
64	013214	Rivet, 3/4 x 1-3/4" drilled	2
65	290455	P.T.O. shield	1
66	013630	Machine bolt, 1/2 x 7"	1
67	303596	Spacer, 1/2" I.D. x 3/4" O.D. x 7/16" long	1
68	308797	Angle, 2 x 2 x 40-3/4" long	1
69	01669 PMA	Yoke assembly	1
70	010165	Locknut, 1/2"	1
71	308715	Anchor on hitch	1
72	308945	Anchor on tongue	1
73	291246	Thrust bearing	1
74	291245	Sleeve	1
75	291249	Washer	1
76	291248	Nut	1
77	291381	Ball, 3/8" dia.	1
78	291243	Lower tube assembly	1

TELESCOPING SHIELDED DRIVE ASSEMBLY — STANDARD 540 R.P.M.

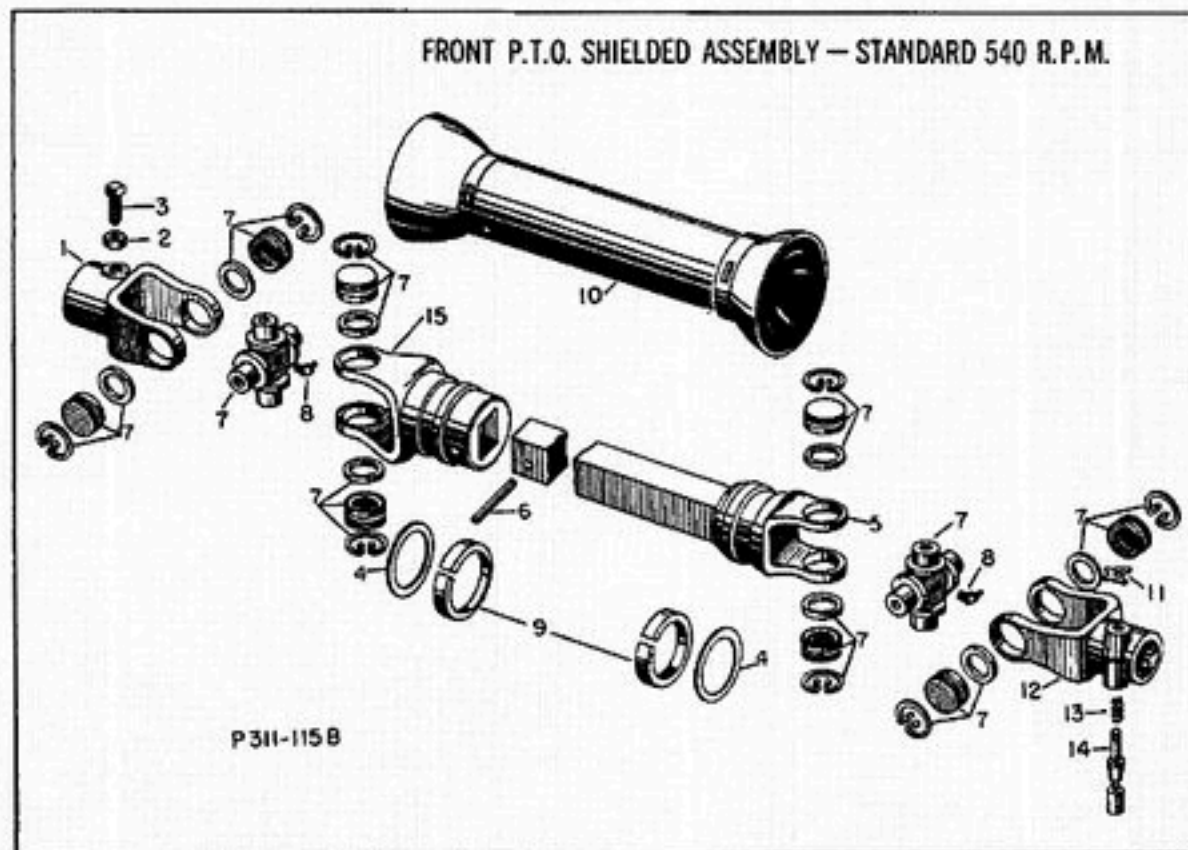


P311-116 B

Key	Part Number	Part Description	Used
1	010323	Yoke assembly with bronze bearing and shear bolt bushing	1
2	K 3573	Bronze bearing sintered, 13/16" I.D. x 1-1/8" O.D. x 1-1/2" long	1
3	010481	Telescoping shield, front half	1
4	010483	Telescoping shield, rear half	1
	010320	Shield and shaft assembly, rear	1
5	012014	Center Cross kit	1
	011074	Snap ring kit	1
6	011967	Grease fitting, 1/8" pipe thread, 67-1/2 degree	1
7	010484	Yoke and shaft assembly	1
8	K 4789A	Bearing kit includes nylon bearing, washer and lock ring	1
9	K 4711	Nylon bearing	1
10	011976	Grease fitting, 1/4" straight	1
11	010482	Telescoping tube and splined shaft	1
12	302432	Bushing, 11/32" I.D. x 5/8" O.D. x 3/4" long	1

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REPAIR PARTS

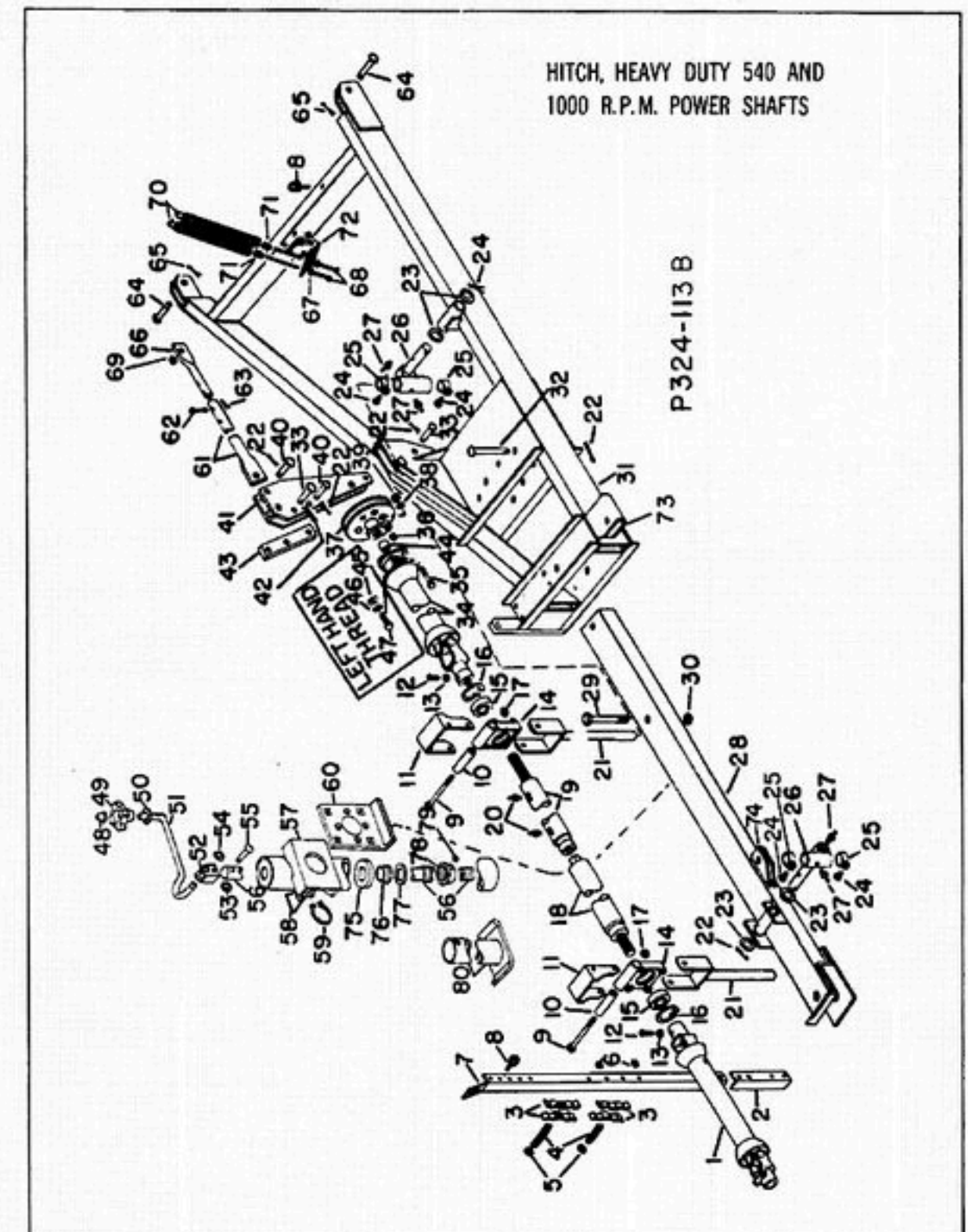


Key	Part Number	Part Description	Used
1	K 3408	Yoke, 1-1/4" spline	1
2	K 3167	Jam nut, 1/2"	1
3	K 4504	Set screw, 1/2"	1
4	K 3420	Washer, 2-5/16" I.D. x 2-25/32" O.D. x 3/32" thick	2
5	010693	Yoke and shaft assembly, 1" square x 24-11/16" long	1
6	K 2785	Drive pin, 3/8" O.D. x 2" long	1
7	012014	Center cross kit	2
	011074	Snap ring kit	2
8	011967	Grease fitting, 1/8" pipe thread, 67-1/2 degree	2
9	K 4602	Bearing, nylon, 2-9/32" I.D. x 2-13/16" O.D. x 3/8" thick	2
10	010694	Shield, 20-1/4" long	1
11	K 3421	X washer	1
12	K 3404A	1-3/8" splined yoke assembly - X washer, spring and pin	1
13	K 1846	Lock pin spring, 4 coils, 7/8" long	1
14	K 3424	Quick lock pin	1
15	010327	Yoke for 1" square shaft	1

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REPAIR PARTS



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REPAIR PARTS

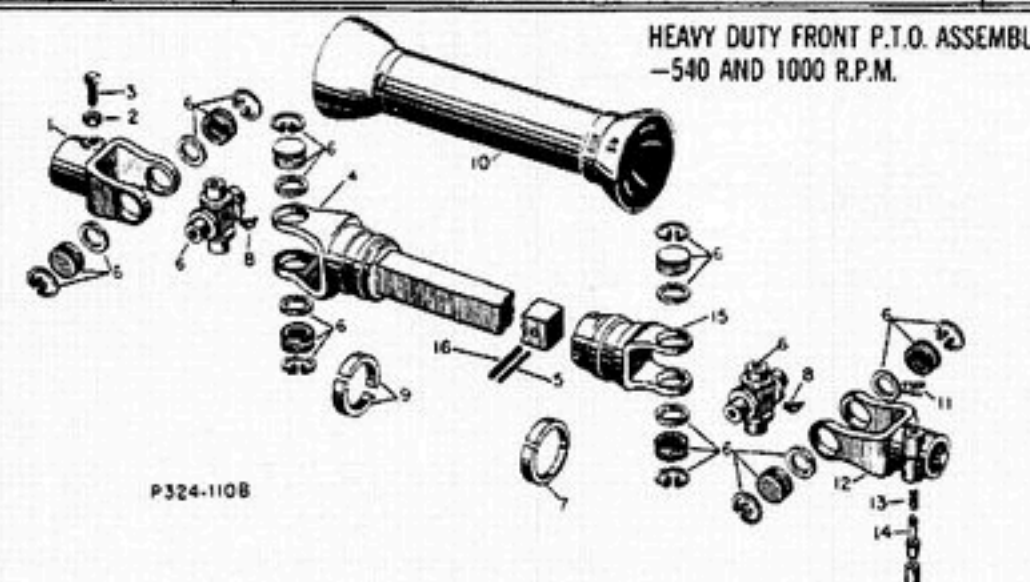
Key	Part Number	Part Description	Used
1	011629	Drive shaft complete, 540 R.P.M.	1
	011650	Drive shaft complete, 1000 R.P.M.	1
2	308797	Angle, 2 x 2" x 40-3/4" long	1
3	0722 HS	Hose clip, support hose	4
4	1509 S	Compression spring, 13 coils, 2-5/8" long, 5/64" wire	2
5	K 3037	Washers, 11/32" I.D. x 11/16" O.D. x 1/16" thick	2
6	010162	Locknut, 5/16"	2
7	305379	Hose support stand	1
8	K 3675	Eye bolt, 3/8"	2
9	013630	Machine bolt, 1/2 x 7"	2
10	270160	Spacer, 1/2" I.D. x 13/16" O.D. x 5-9/16" long	2
11	308186	P.T.O. shield	2
12	011626	Set screw, 1/2 x 1-1/4"	2
13	K 3167	Jam nut, 1/2"	2
14	290454	P.T.O. pivot bearing housing	2
15	K 3330	Bearing ball, 1-3/8" bore	2
16	K 4524	Snap ring, external	2
17	010165	Locknut, 1/2"	2
18	011620	Front shaft assembly	1
19	011621	Rear shaft assembly	1
20	011976	Grease fitting, 1/4, 28 N.S.T. straight	2
21	01669 PMA	Yoke assembly	2
22	010244	Cotter pin, 1/4 x 1-3/4"	5
23	K 1780	Washer, 1-9/32" I.D. x 2" O.D. x 3/32" thick	4
24	012663	Machine bolt, 3/8 x 1-1/4" (Grade 5)	4
25	01672 PM	Pivot bearing clamp	4
26	308174	P.T.O. pivot bearing	2
27	011962	Grease fitting, 1/8 N.P.T. straight	1
28	309025	Drawbar assembly	1
29	011695	Machine bolt, 1" x 6"	1
30	013479	Nut, 1"	1
31	308709	Hitch assembly	1
32	011696	Rivet, 1" x 5-1/4", drilled	2
33	011766	Rivet, 1" x 3-1/4", drilled	1
34	011627	Rear drive shaft complete, 540 R.P.M.	1
	011653	Rear drive shaft complete, 1000 R.P.M.	1
35	010058	Shear bolt, 5/16 x 2" (Grade 5) 540 R.P.M.	1
	011693	Shear bolt, 1/4 x 2" (Grade 8) 1000 R.P.M.	1
36	302432	Bushing, 11/32" I.D. x 5/8" O.D. x 3/4" long, 540 R.P.M.	1
	301077	Bushing, 9/32" I.D. x 5/8" O.D. x 3/4" long, 1000 R.P.M.	1
37	302724	Sheave with 302432 bushing, 540 R.P.M.	1
	308157	Hub assembly with 301077 bushing, 1000 R.P.M.	1
		(Note: See 326, or 327 Husking Unit Operator's Manual for 1000 R.P.M. Repair Parts).	
38	011756	Washer, 11/32" I.D. x 1" O.D. x 3/32" thick, 540 R.P.M.	1
	011755	Washer, 17/64" I.D. x 1" O.D. x 3/16" thick, 1000 R.P.M.	1
39	010162	Locknut, 5/16", 540 R.P.M.	1
	010161	Locknut, 1/4", 1000 R.P.M.	1
40	011697	Rivet, 1" x 2-1/4" drilled	2
41	308936	Rocker plate assembly	1
42	2629 P	Pin clip	1
43	308730	Rocker arm	1
44	K 3573	Bushing bronze, 15/16" I.D. x 1-1/8" O.D. x 1-1/2" long, 540 R.P.M.	1
	011678	Bushing bronze, 15/16" I.D. x 1-1/8" O.D. x 1-1/2" long 1000 R.P.M.	1
45	012216	Washer, 13/32" I.D. x 1-11/32" O.D. x 3/16" thick (hardened)	1
46	011937	Lockwasher, 3/8"	1
47	011583	Machine bolt, 3/8 x 1" - left hand thread (Grade 5)	1
48	291388	Cap washer	1
49	291383	Knob	1
50	291389	Washer	1
51	291241	Crank	1
52	291384	Screw cap	1
53	291380	X-washer	1
54	291244	Retaining clip	1
55	291382	Crank pin	1
56	291247	Screw	1
57	291242	Upper tube assembly	1
58	291390	Plunger assembly	1
59	014767	Retaining ring, external	1
60	291162	Swivel	1

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS

Key	Part Number	Part Description	Used
61	308946	Push rod, 39-7/8" long	1
62	013289	Rivet, 1/2 x 2", drilled	2
63	010215	Cotter pin, 1/8" x 1"	2
64	013214	Rivet, 3/4" x 1-3/4", drilled	2
65	010231	Cotter pin, 3/16" x 1-1/2"	3
66	309828	Pipe extension	1
67	K 826	Washer, 1/2" I.D. x 1-1/4" O.D. x 1/16" thick	2
68	K 2701	Machine bolt, 7/16 x 8", full body	2
69	303596	Spacer, 1/2" I.D. x 3/4" O.D. x 7/16" long	1
70	0170 HSA	Lift spring, 47 total coils, 14" long, 17/64" wire with insert	2
71	15 HS	Spring insert	2
72	302426	Spring anchor	1
	013583	Machine bolt, 3/8 x 1"	3
73	308715	Anchor on hitch	1
74	308945	Anchor on tongue	1
75	291246	Thrust bearing	1
76	291245	Sleeve	1
77	291249	Washer	1
78	291248	Nut	1
79	291381	Ball, 3/8" dia.	1
80	291243	Lower tube assembly	1

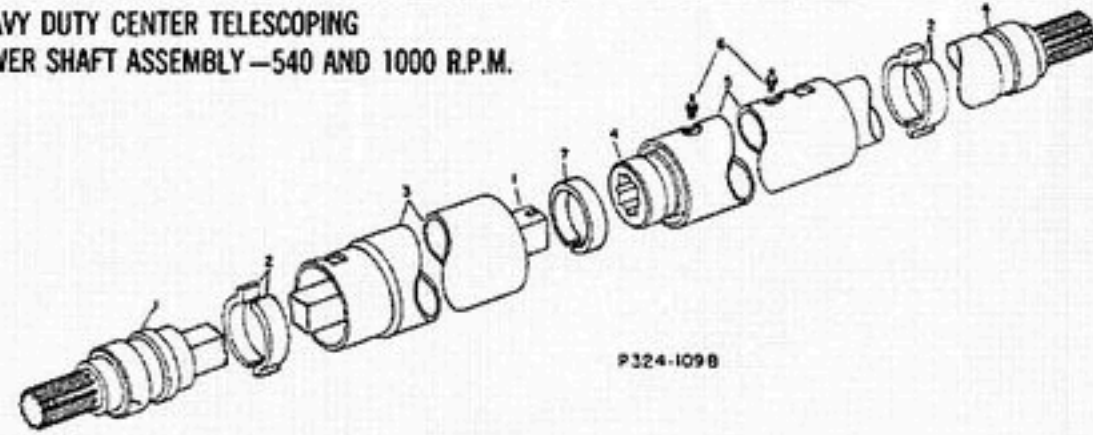


Key	Part Number	Part Description	Used
1	K 4179	Yoke, 1-3/8" spline, 21 tooth	1
2	K 3167	Jam nut, 1/2"	1
3	011626	Set screw, 1/2"	1
4	011630	Yoke & shaft assembly	1
5	012236	Roll pin, 7/32" O.D. x 2" long	1
6	011071	Snap rings & rubber seals kit	1
	011070	Center cross kit	1
7	011634	Bearing	1
8	011967	Grease fitting, 1/8" NPT, 67-1/2 degree	2
9	011633	Bearing	2
10	011632	Shield	1
11	K 3421	"X" washer	1
12	K 2964A	1-3/8" splined yoke assembly "X" washer, spring & pin	1
	015041	Yoke assembly with "X" washer, spring & pin, 1000 RPM	
	011656	Machine bolt, 1/2 x 2-3/4", Grade 5, 1000 RPM	
	K 4442	Jam nut, 1/2", 1000 RPM	
	011939	Lockwasher, 1/2", 1000 RPM	
13	K 1845	Lock pin spring, 4 coils, 7/8" long, 540 RPM	1
14	K 3424	Quick lock pin, 540 RPM	1
	015043	Quick Lock Pin, 1000 RPM	
15	011631	Yoke, 1-3/8"	1
16	K 2785	Roll pin, 3/8" O.D. x 2" long	1

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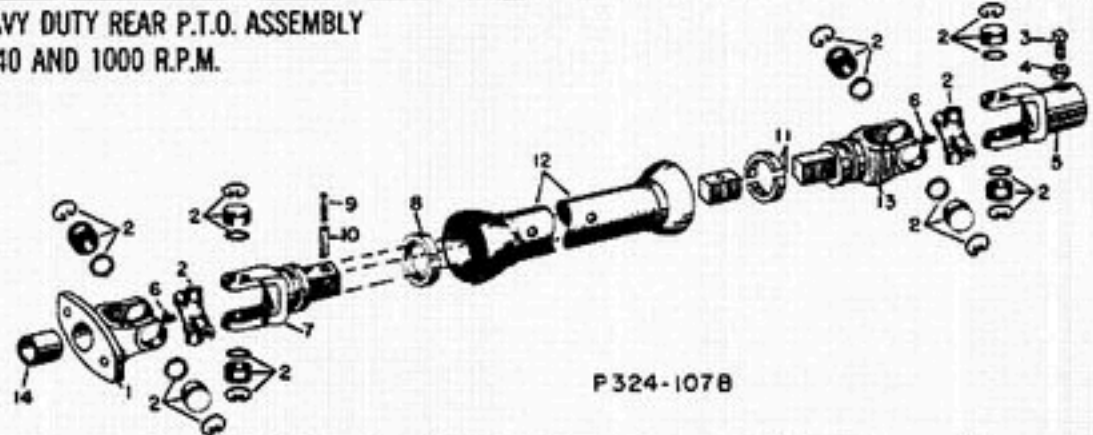
REPAIR PARTS

HEAVY DUTY CENTER TELESCOPING POWER SHAFT ASSEMBLY—540 AND 1000 R.P.M.



Key	Part Number	Part Description	Used
1	011622	Shaft assembly	1
2	011633	Bearing nylon	4
3	011623	Shield - front	1
4	011624	Spline tube assembly	1
5	011625	Shield - rear	1
6	011976	Grease fitting, 1/4 - 28 NST	2
7	011634	Bearing	1

HEAVY DUTY REAR P.T.O. ASSEMBLY -540 AND 1000 R.P.M.



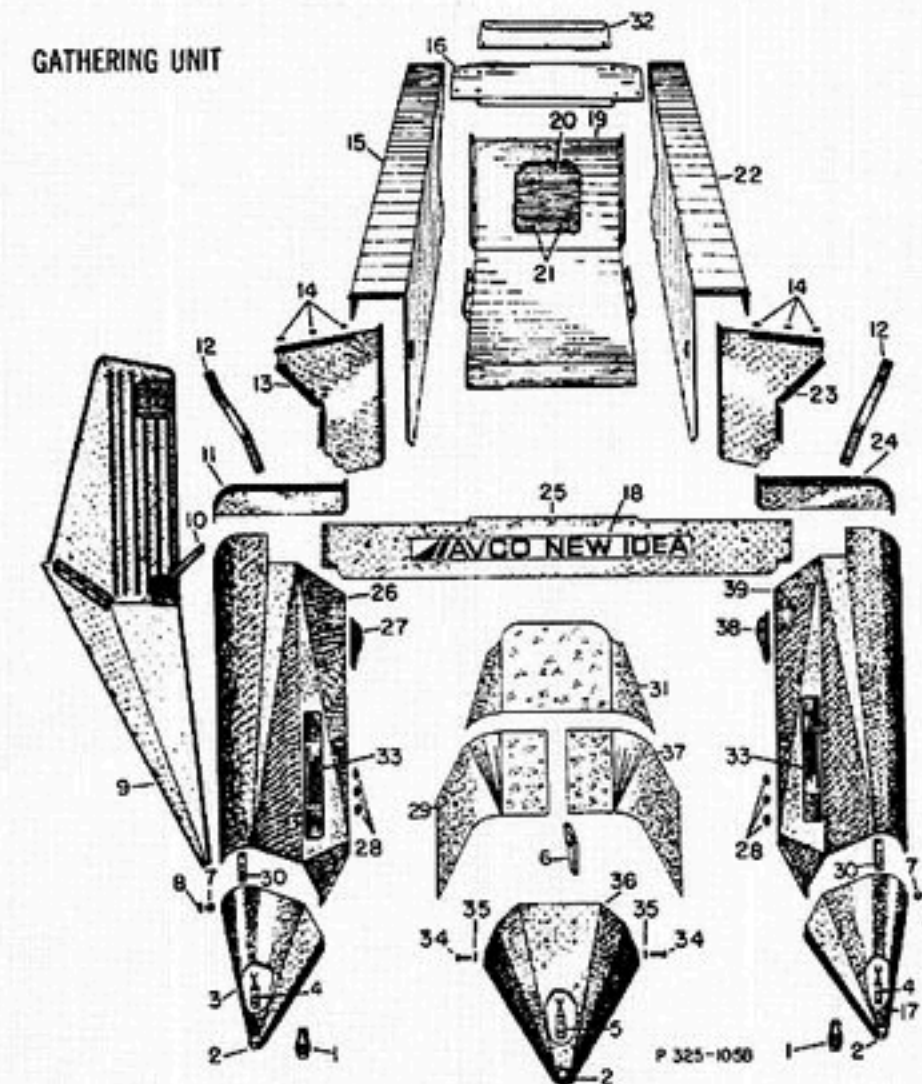
Key	Part No.	Part Description	Used
1	011638	Shear pin yoke assembly, 540 RPM	1
	011654	Shear pin yoke assembly, 1000 RPM	1
2	011070	Center cross kit	1
	011071	Snap rings & rubber seals kit	1
3	011626	Setscrew, 1/2"	1
4	K 3167	Jam nut, 1/2"	1
5	K 4179	Yoke, 1-3/8" spline, 21 tooth	1
6	011967	Grease fitting, 1/8" NPT, 67-1/2 degree	2
7	011631	Yoke, 1-3/8" splined, 6-B	1
8	011634	Bearing	1
9	012236	Roll pin, 7/32" O.D. x 2" long	1
10	K 2785	Roll pin, 3/8" O.D. x 2" long	1
11	011633	Bearing	2
12	011628	Shield	1
13	011630	Yoke & shaft assembly	1
14	K 3573	Bearing bronze, 15/16" I.D. x 1-1/8" O.D. x 1-1/2" long, 540 RPM	1
15	011678	Bearing bronze, 1000 RPM	1

NO. 324 AND 325 TWO ROW PICKERS

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REPAIR PARTS

GATHERING UNIT



Key	Part Number	Part Description	Used
1	300400	Toe extension	2
	014022	Machine screw, 3/8 x 2 (flat hd.)	2
2	302359	Cast toe	3
3	302366	Floating shoe assembly, R. H.	1
	302375	Pivot (inside)	2
	302376	Pivot (outside)	2
4	309016	Chain strap assembly	2
5	713681	Chain strap assembly	1
	013061	Rivet truss hd., 1/4 x 1/2" galv.	3
6	309010	Chain support assembly	1
7	0329 SR	Spacer 17/32" I.D. x 3/4" O.D. x 9/16" long	2
8	K 2248	Washer, 17/32" I.D. x 1-1/8" O.D. x 1/8" thick	2
9	305350	Wheel shield assembly	1
	013986	Machine screw, 5/16 x 1/2"	8
	013988	Machine screw, 5/16 x 3/4"	2
10	302353	Brace, 1/4 x 1-1/2" flat	1
	013613	Machine bolt, 1/2 x 1-1/4"	1

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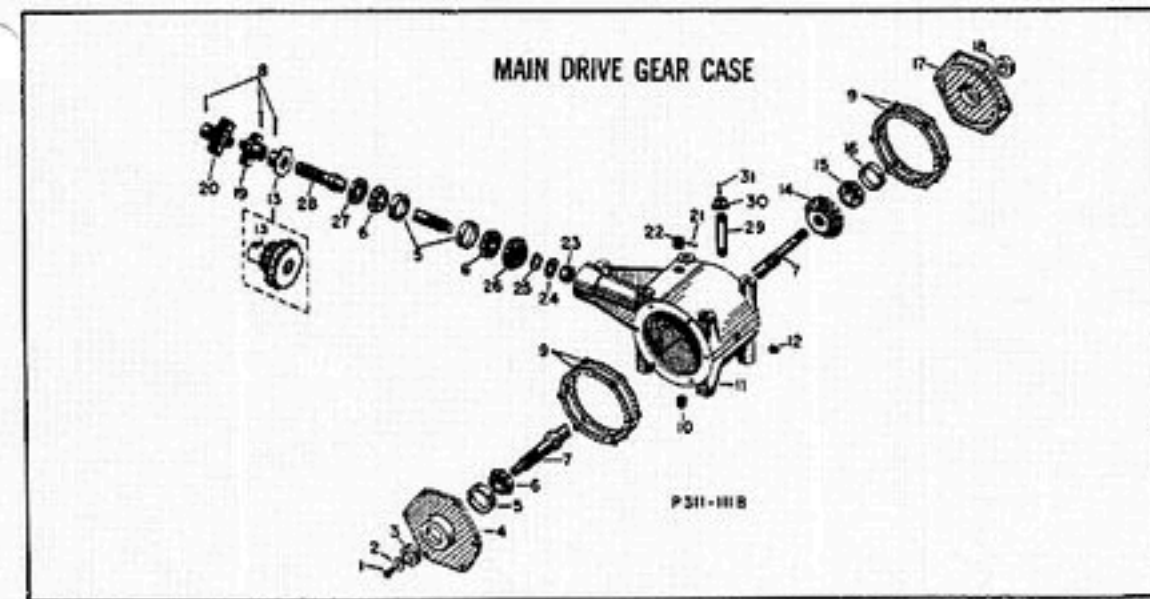
REPAIR PARTS

Key	Part Number	Part Description	Used
11	302344	Support sheet, right	1
	013986	Machine screw, 5/16 x 1/2"	6
12	302345	Stalk roll brace	2
	013988	Machine screw, 5/16 x 3/4"	4
	013565	Machine bolt, 5/16 x 1"	4
13	302200	Filter side sheet, right	1
	013986	Machine screw, 5/16 x 1/2"	6
14	K 3037	Washer, 11/32" I.D. x 11/16" O.D. x 1/16" thick	6
15	302177	First elevator side sheet, R.H.	1
	013988	Machine screw, 5/16 x 1/2"	7
	013580	Machine bolt, 3/8 x 3/4"	2
16	305908	Clearing roll deflector cover (324 - wide row)	1
	305910	Clearing roll deflector cover (325 - narrow row)	1
	013987	Machine screw, 5/16 x 5/8"	8
17	302365	Floating shoe assembly, L.H.	1
	302375	Pivot (inside)	2
	302376	Pivot (outside)	2
18	015901	Decal, "Avco New Idea"	1
19	303268	First elevator enclosure shield assembly (324 wide row)	1
	303267	First elevator enclosure shield assembly (325 narrow row)	1
	013986	Machine screws, 5/16 x 1/2"	18
20	303269	Door	1
21	K 2846	Wing nut, 5/16"	2
22	302176	First elevator side sheet, L.H.	1
	013986	Machine screw, 5/16 x 1/2"	7
23	302199	Filter side sheet, left	1
	013986	Machine screw, 5/16 x 1/2"	6
24	302343	Support sheet, left	1
	013986	Machine screws, 5/16 x 1/2"	6
25	302342	Stalk breaker (324 wide row)	1
	302507	Stalk breaker (325 narrow row)	1
	013986	Machine screws, 5/16 x 1/2"	27
26	302335	Stalk roll assembly, R.H.	1
	013988	Machine screw, 5/16 x 3/4"	6
	013986	Machine screw, 5/16 x 1/2"	5
	013563	Machine bolt, 5/16 x 3/4"	3
27	302339	Long gathering chain stripper, right	1
	013061	Rivet, 1/4 x 1/2" truss hd.	3
28	K 3655	Washer, 11/32" I.D. x 7/8" O.D. x 3/32" thick	6
29	309008	Side center sheet, R.H. (324 - wide row)	1
	309018	Side center sheet, R.H. (325 - narrow row)	1
	013986	Machine screw, 5/16 x 1/2"	8
30	713683	Support chain bracket	2
	013986	Machine screw, 5/16 x 1/2"	6
31	309009	Center unit (324 wide row)	1
	309019	Center unit (325 narrow row)	1
	013988	Machine screw, 5/16 x 3/4"	4
	013986	Machine screw, 5/16 x 1/2"	4
32	306907	Clearing roll deflector (324 - wide row)	1
	306909	Clearing roll deflector (325 - narrow row)	1
	013986	Machine screw, 5/16 x 5/8"	7
33	305994	Decal (DANGER)	2
34	013254	Rivet, drilled, 3/8 x 1-1/4" long	2
35	010214	Cotter pin, 1/8 x 3/4"	2
36	309011	Center point assembly (324 wide row)	1
	302360	Cross brace assembly	1
	309021	Center point assembly (325 narrow row)	1
	302513	Cross brace assembly	1
37	309007	Side center sheet, L.H. (324 wide row)	1
	309017	Side center sheet, L.H. (325 narrow row)	1
	013986	Machine screw, 5/16 x 1/2"	8
38	302338	Long gathering chain stripper left	1
	013061	Rivet, 1/4 x 1/2" truss hd.	3
39	302334	Stalk roll assembly, L.H.	1
	013988	Machine screw, 5/16 x 3/4"	6
	013986	Machine screw, 5/16 x 1/2"	5
	013563	Machine bolt, 5/16 x 3/4"	3

NO. 324 AND NO. 325 TWO ROW PICKERS

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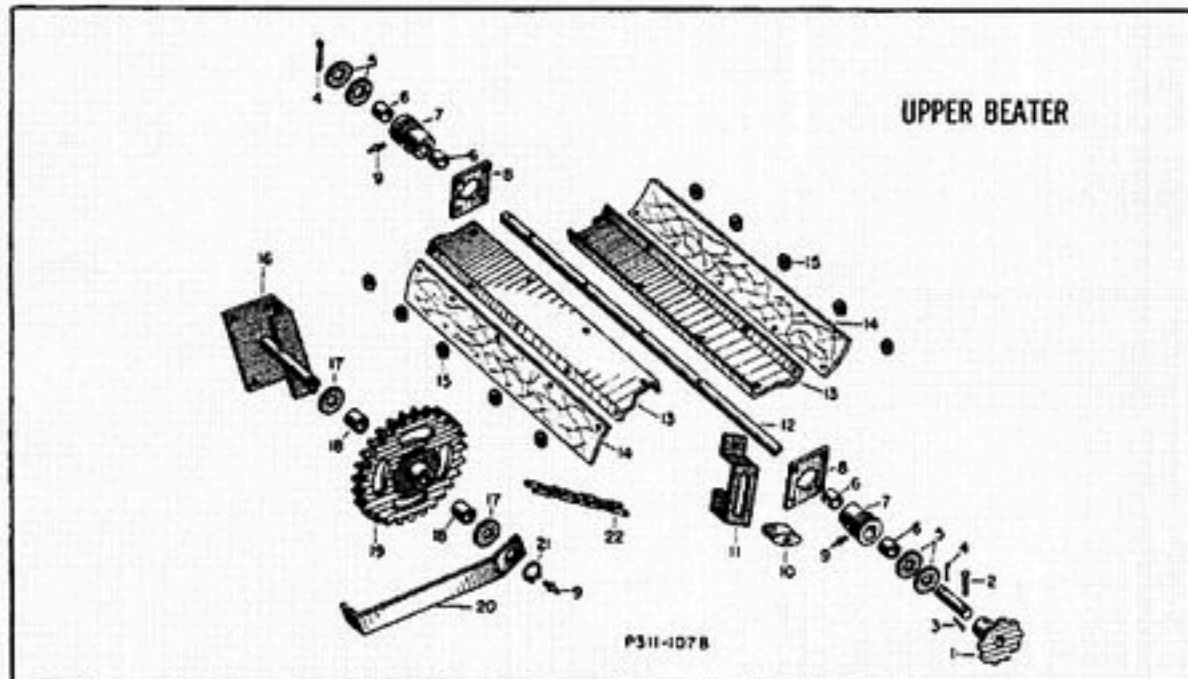
REPAIR PARTS



Key	Part Number	Part Description	Used
1	011583	Bolt machine, 3/8 x 1" hex. hd. left hand thread	1
2	012216	Washer, 13/32" I.D. x 1-11/32" O.D. x 3/16" thick	1
3	K 5010	Oil seal, 1-1/4" I.D. x 1-3/4" O.D. x 3/8" thick	1
4	301537	Gear case cap (Order 301538)	1
	301538	Gear case cap assembly with bearing cup and seal	1
	013583	Machine bolt, 3/8 x 1"	6
5	K 3548	Bearing cup, 2-21/64" O.D.	3
6	K 3549	Bearing cone, 1-1/4" I.D.	3
7	302133	Input shaft assembly, 15-1/8"	1
8	010248	Cotter pin, 1/4 x 2-3/4"	3
9	K 4580	Shim, .005 thick (as required)	
	K 4581	Shim, .020 thick (as required)	
10	K 2224	Pipe plug, 1"	1
11	301531	Main drive gear box (Order 301532)	1
	301532	Main drive gear box assembly with 2 bearing cups	1
	014077	Machine bolt, 1/2 x 1" hex. hd.	4
12	K 1875	Pipe plug, 1/4"	1
13	301536	Seven tooth sprocket, 1-1/4" splined for # 2050 chain (used with Husking Unit)	1
	303350	14 tooth 21 tooth sprocket assembly, 1-1/4" splined bore, # 2050 and #60 double roller chain (used with Husking Unit and 314 Sheller)	
	306435	14 tooth 25 tooth sprocket assembly, 1-1/4" splined bore, # 2050 and 50 double roller chain (used with Husking Unit and 329 Sheller)	
14	0133 HC	23 tooth bevel gear, 1-1/4" I.D., splined	1
15	K 2066	Bearing cone, 1" I.D.	1
16	K 1618	Bearing cup, 2-1/2" O.D.	1
17	301539	Gear case cap (Order 301540)	1
	301540	Gear case cap assembly with bearing cup and seal	1
	013583	Machine bolt, 3/8 x 1"	6
18	K 3487	Oil seal, 1" I.D. x 1-3/4" O.D. x 7/16" thick	1
19	301535	Male half flexible coupling, 1-1/4" I.D. splined	1
20	301576	Female flexible coupling, 1-1/4" I.D. splined	1
21	010223	Cotter pin, 5/32 x 1-1/4"	1
22	K 4787	Pipe plug, 1" drilled for cotter pin	1
23	K 4578	Locknut, 25/32" I.D., fine thread	1
24	011909	Slotted lockwasher	1
25	K 4576	Washer, 13/16" I.D. x 1-3/4" O.D. x 3/16" thick	1
26	0132 HC	17 tooth bevel gear, 1-1/4" I.D., splined	1
27	K 4583	Oil seal, 1-11/16" I.D. x 2-5/8" O.D. x 1/2" thick	1
28	307871	Output shaft assembly, 11-9/16" long	1
29	715266	Pipe nipple	1
30	012858	Pipe cap	1
31	010223	Cotter pin, 5/32 x 1-1/4"	1

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REPAIR PARTS

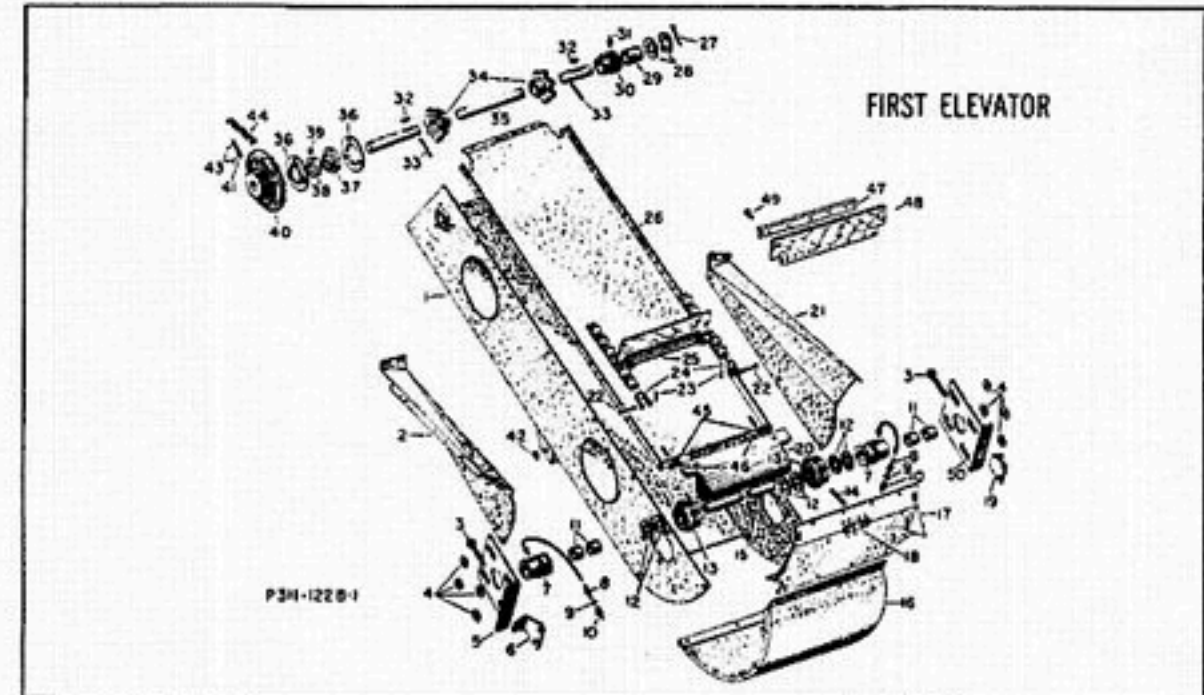


Key	Part Number	Part Description	Used
1	302440	9 tooth sprocket, 1" bore	1
2	013225	Rivet, 5/16 x 2" drilled	1
3	010210	Cotter pin, 3/32" x 3/4"	2
4	010231	Cotter pin, 3/16" x 1-1/2"	4
5	1498 S	Washer, 1-3/32" I.D. x 2" O.D. x 1/8" thick	4
6	010068	Bushing bronze, 1- 1/16" I.D.	4
7	308190	Bearing with 010068 bronze bushing	2
8	302451	Bearing plate, 3-1/8 x 3-1/8 x 1/8" thick	2
9	013986	Machine screws, 5/16 x 1/2"	8
10	011962	Grease fitting, 1/8 N.P.T. straight	3
11	300041	Chain slide	1
12	013878	Carriage bolt, 3/8 x 2-1/2"	1
13	0106 PM	Idler bracket	1
14	013998	Machine screw, 3/8 x 3/4"	2
15	302447	Beater shaft, 1-1/16" O.D., 27-19/32" long (324 wide row)	1
16	302516	Beater shaft, 1-1/16" O.D. x 20-19/32" long (325 narrow row)	1
17	302448	Beater strap, 21" long (324 wide row)	2
18	302517	Beater strap, 14" long (325 narrow row)	2
19	013569	Machine bolt, 5/16 x 2"	4
20	302521	Beater flap, 4-1/4 x 21-1/2" (324 wide row)	2
21	302522	Beater flap, 4-1/4 x 14-1/2" (325 narrow row)	2
22	013565	Machine bolt, 5/16 x 1"	5
23	K 3073	Washer, 11/32" I.D. x 1-3/8" O.D. x 1/16" thick	10
24	302438	Paddle drive bracket assembly	1
25	013998	Machine screw, 3/8 x 3/4"	2
26	K 872	Washer, 1-1/32" I.D. x 1-3/4" O.D. x 1/16" thick	2
27	K 3511	Bearing sintered, 1-1/16" I.D. x 1-1/4" O.D. x 1"	2
28	302442	9 tooth and 28 tooth spur gear (Order 302441)	1
29	302441	Spur gear with (2) K 3511 sintered bearing	1
30	302443	Brace, 3/16 x 1-3/4" flat	1
31	013990	Machine screw, 5/16 x 1"	1
32	K 3706	Snap ring external	1
33	302850	Beater drive chain, 1-1/4" extended pitch #2050 chain consisting of 58 total pitches, 57 riveted type and 1 connecting link (For repair of chain see Page 58)	1

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS



Key	Part Number	Part Description	Used
1	302159	First elevator assembly, 324 wide row	1
2	302483	First elevator assembly, 325 narrow row	1
3	014077	Machine bolt, 1/2 x 1"	2
4	302170	Filler sheet, right hand	1
5	013986	Machine screw, 5/16 x 1/2"	6
6	K 3818	Carriage bolt, 3/8 x 2-3/4" full body	2
7	K 3655	Washer, 11/32" I.D. x 7/8" O.D. x 3/32" thick	8
8	305873	Bearing plate, 4-3/4" x 5-1/2" x 3/16", R.H.	4
9	013811	Carriage bolt, 5/16 x 3/4"	8
10	301557	Idler bolt plate, right hand	1
11	013988	Machine screw, 5/16 x 3/4"	2
12	302434	Bearing (order 302435)	1
13	302435	Bearing with two 010068 bronze bushing 3/4" bore	1
14	010049	Oil line 30", 324 wide row	1
15	010050	Oil line 25", 325 narrow row	1
16	K 3004	Washer, 13/32" I.D. x 13/16" O.D. x 1/16" thick	2
17	011961	Grease fitting, 1/8 female N.P.T. straight	2
18	010068	Bushing bronze 1-13/64" O.D. x 1-1/16" I.D. x 1" long	4
19	K 860	Washer, 1-3/32" I.D. x 1-9/16" O.D. x 1/16" thick	4
20	305810	7 tooth sprocket idler, 1-1/16" bore	2
21	K 3800	Roll pin, 1/4 x 2-3/4"	2
22	302172	First elevator idler shaft, 1-1/16" Dia. x 24-1/2" long - 324 wide row	1
23	302488	First elevator idler shaft, 1-1/16" Dia. x 17-1/2" long - 325 narrow row	1
24	302175	Boot first elevator, 324 wide row	1
25	302491	Boot first elevator, 325 narrow row	1
26	013986	Machine screws, 5/16 x 1/2"	10
27	302202	Boot extension, 324 wide row	1
28	302503	Boot extension, 325 narrow row	1
29	013986	Machine screw, 5/16 x 1/2"	4
30	013988	Machine screw, 5/16 x 3/4"	2
31	302203	Back up plate, 1" x 4" x 1/16" thick	1

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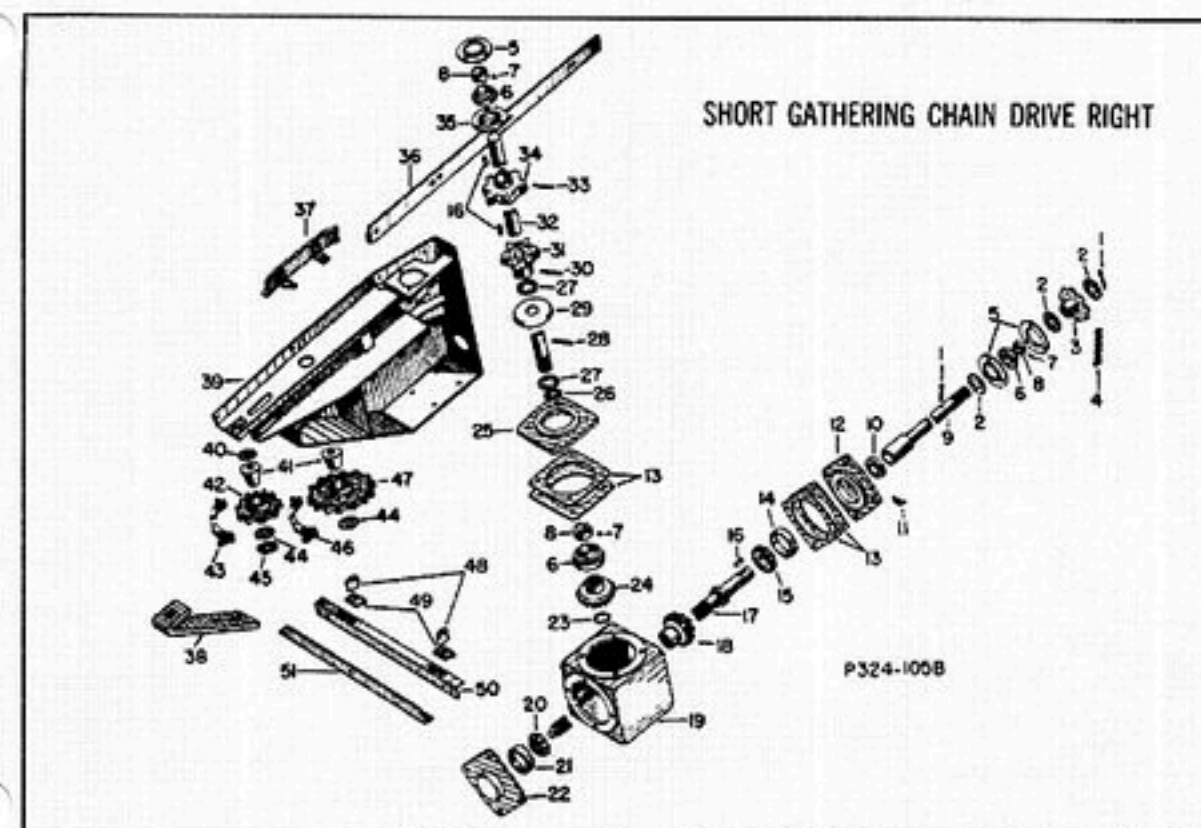
REPAIR PARTS

Key	Part Number	Part Description	Used
19	301558	Idler bolt plate, left hand	1
	013988	Machine screw, 5/16 x 3/4"	2
20	305588	Shaft wrapper assembly, 324 wide row	1
	305590	Shaft wrapper assembly, 325 narrow row	1
	013811	Carriage bolt, 5/16 x 3/4"	2
21	302169	Filler sheet, left hand	1
	013986	Machine screw, 5/16 x 1/2"	6
22	K 3859	Coupler link pin, 11/32" O.D. x 2-7/32" long	2
23	010210	Cotter pin, 3/32 x 3/4"	2
24	#62	Coupler link	2
25	305795	First elevator chain complete, 324 wide row with total of 134, #62 plain link and 24 attachment links and 2 #62 coupler link with pin. Made up as follows: 2 plain links, then 1 attachment link followed by 6 plain links for 7 consecutive units then 1 attachment link followed by 5 plain links for 4 consecutive units followed by 1 attachment link then 3 plain links and 1 connector link for each strand	1
	305798	First elevator flight with attachment link for 324 wide row	12
	010973	Attachment link, right	12
	010972	Attachment link, left	12
	#62	Plain link	
	305800	First elevator chain complete, 325 narrow row with total of 134, #62 plain link and 24 attachment links and 2 #62 coupler link with pins. Made up as follows: 2 plain links then 1 attachment link followed by 6 plain links for 7 consecutive units then 1 attachment link followed by 5 plain links for 4 consecutive units followed by 1 attachment link then 3 plain links and 1 connector link for each strand	1
	305799	First elevator flight with attachment link for 325 narrow row	12
	010973	Attachment link, right	12
	010972	Attachment link, left	12
26	303699	First elevator bottom, 324 wide row 22-1/32" wide	1
	303698	First elevator bottom, 325 narrow row 15-1/32" wide	1
	013988	Machine screw, 5/16 x 3/4"	4
	013986	Machine screw, 5/16 x 1/2"	4
27	010231	Cotter pin, 3/16 x 1-1/2"	1
28	K 872	Washer, 1-1/32" I.D. x 1-3/4" O.D. x 1/16" thick	2
29	K 3314	Bushing phenolic, 1-1/32" I.D. x 1-5/32" O.D. x 2-1/16" long	1
30	301563	Bearing (order 301564)	1
	301564	Bearing with one K 3314 bushing 1-1/32" bore	1
31	011976	Grease fitting, 1/4" - N.S.T. straight	1
32	011256	#13 woodruff key, 3/16 x 1"	1
33	K 3454	Roll pin, 1/4 x 1-3/4"	2
34	300999	7 tooth sprocket, 1" bore keywayed	2
35	302178	First elevator drive shaft, 1" x 28-3/4" keywayed, 324 wide row	1
	302492	First elevator drive shaft, 1" x 19-3/4" keywayed, 325 narrow row	1
36	K 2579	Bearing flange	2
	013811	Carriage bolt, 5/16 x 3/4"	3
37	K 2752	Bearing ball, 1" bore	1
38	K 2809	Collar, 1" dia.	1
39	K 2692	Set screw, 1/4 x 1/4 cup point allen head	1
40	302179	Double sprocket 22 tooth and 14 tooth 1" bore	1
41	302180	Pin, 3/8" dia. x 2-3/16" long hardened	1
42	K 1652	Washer, 17/32" I.D. x 1" O.D. x 1/16" thick	2
43	010214	Cotter pin, 1/8 x 3/4"	2
44	302851	First elevator drive chain, 1-1/4" extended pitch #2050 consisting of 37 total pitches, 36 riveted type including 1 offset link and 1 connecting link, 324 wide row (for repair of chain see Page 58)	
	713447	First elevator drive chain, 325 narrow row (for repair of chain see Page 58)	
45	K 3037	Washer 11/32" I.D. x 11/16" O.D. x 1/16" thick	2
46	010162	5/16" Locknut	2
47	304550	Reinforcement strip, 1-1/8 x 1/2 x 16-5/8" long, (324 wide row)	1
	304557	Reinforcement strip, 1-1/8 x 1/2 x 9-5/8" long, (325 narrow row)	1
48	305797	Rubber flight, 1/2 x 3 x 19-5/8" long, (324 wide row)	1
	305802	Rubber flight, 1/2 x 3 x 12-1/8" long, (325 narrow row)	1
49	010971	Rivet, truss head, 1" long, shouldered	5-7
50	305874	Bearing Plate, 4-3/4" x 5-1/2" x 3/16" L.H.	1
	013811	Carriage bolt, 5/16 x 3/4"	4

NO. 324 AND NO.325 TWO ROW PICKERS

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REPAIR PARTS



Key	Part Number	Part Description	Used
1	010231	Cotter pin 3/16 x 1-1/2"	2
2	K 864	Washer 1-1/32" I.D. x 1-5/8" O.D. x 1/16" thick (use as required)	
3	302306	9 tooth sprocket for 2050 chain 1" bore, splined	1
4	302307	Gathering chain drive chain 1-1/4" extended pitch #2050 chain consisting of 32 total pitches 31 pitches riveted type and 1 connecting link (for repair of chain see Page 58)	
5	K 2579	Bearing housing flange	3
	013811	Carriage bolt 5/16 x 3/4"	3
6	K 2752	Bearing 1" bore	3
7	K 2892	Set screw 1/4" x 1/4" cup point allen hd.	3
8	K 2809	Locking collar 1" dia.	3
9	302303	Gathering chain drive shaft, 1" dia. x 35-3/8" long	1
10	K 4652	Grease seal 1" I.D. x 1-11/16" O.D. x 1/4"	1
11	010480	Grease fitting 1/4 x 28 N.F.T. 45 degree	1
12	303538	Bearing cap with bearing cup	1
	013583	Machine bolt 3/8 x 1"	4
13	K 4656	Shim .020 (use as required)	
	K 4657	Shim .005 (use as required)	
14	K 4659	Bearing cup, tapered roller	1
15	K 4660	Bearing cone 1" bore	1
16	011256	Key #13 woodruff, 3/16 x 1"	3
17	302298	Lower drive shaft assembly 1" dia. x 7-5/8"	1
18	303686	14 tooth bevel gear splined	1
19	302241	Gathering chain gear box	1
	014077	Machine bolt, 1/2 x 1"	4
20	K 3840	Bearing cone, 1" bore	1

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REPAIR PARTS

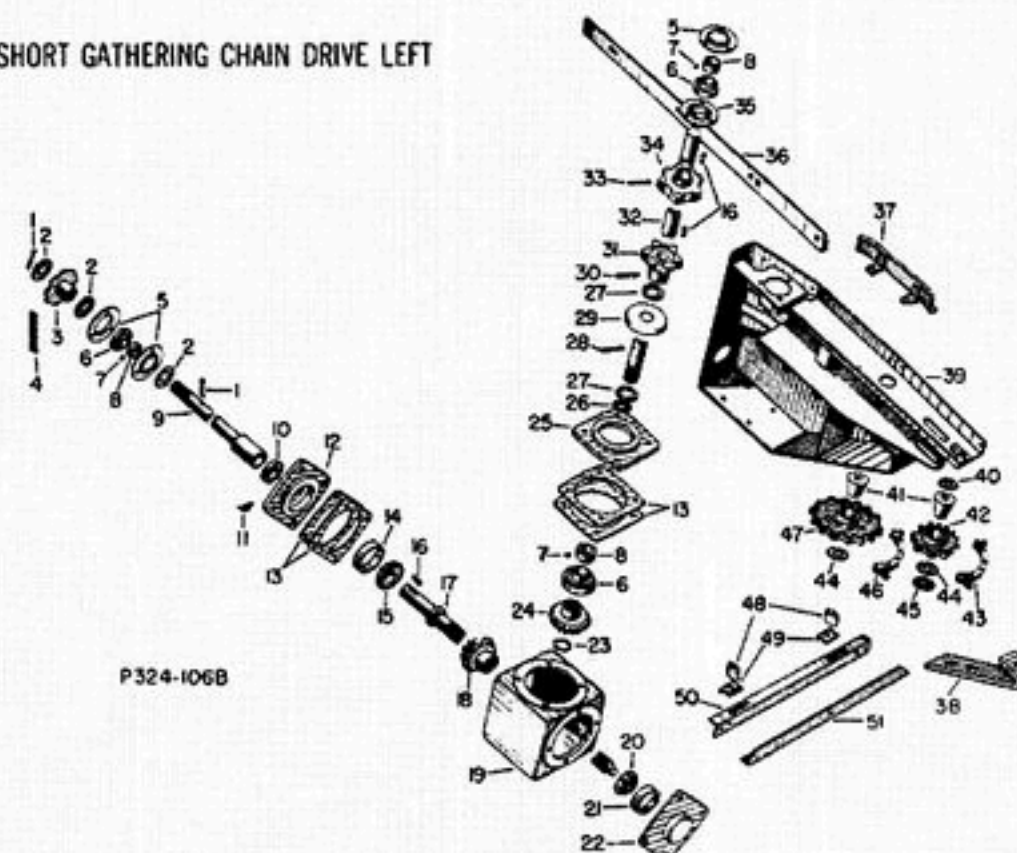
Key	Part Number	Part Description	Used
21	K 3839	Bearing cup, tapered 1-25/32" O.D.	1
22	302243	Gear case cap (order 302244)	1
	302244	Gear case cap with bearing cup.	1
	013583	Machine bolt, 3/8 x 1"	4
23	K 3706	Snap ring external	1
24	303685	15 tooth bevel gear splined.	1
25	300122	Gear case cap-upper.	1
26	K 5006	Washer, 1-15/64" I.D., x 2" O.D., x 1/4" thick.	1
27	K 4310	Washer, 1-1/32" I.D., x 1-7/16" O.D., x 1/16" thick.	2
28	K 3302	Roll pin, 3/16 x 1-3/4"	1
29	301302	Bearing dust shield.	1
30	K 3454	Roll pin, 1/4 x 1-3/4"	1
31	304584	6 tooth sprocket, 1" bore keywayed.	1
32	305348	Upright shaft, 1" dia., - 12-1/2" long	1
33	K 3461	Roll pin, 1/4 x 2"	1
34	305346	7 tooth sprocket 1" bore keywayed.	1
35	K 5008	Extended flangeette	1
	013811	Carriage bolt, 5/16 x 3/4"	3
36	712223	Snapping frame angle R.H., 2" x 2-1/2" x 40-11/16"	1
	013613	Machine bolt, 1/2 x 1-1/4"	2
	014077	Machine bolt, 1/2 x 1"	2
37	305333	Short gathering chain slide, R.H.	1
38	303491	Weed shield.	1
	013939	Carriage bolt, 1/2 x 1" reg. short square.	2
39	309001	Support assembly, short gathering chain, R.H.	1
	013841	Carriage bolt, 1/2 x 1"	2
40	K 2257	Washer, 21/32" I.D., x 1-3/8" O.D., x 1/16" thick	1
41	300172	Idler cone	2
	013915	Carriage bolt, 5/8 x 4"	2
42	304879	11 tooth sprocket for CA-550 chain, hardened.	1
43	305347	Upper short gathering chain, CA-550 consisting of 31 total pitches, 24 plain links, 5 attachment links and 1 offset link and 1 connector link (for repair of chain see Page 58)	1
			2
44	K 2562	Washer, 21/32" I.D., x 2" O.D., x 3/16" thick	1
45	K 2274	Washer, 13/16" I.D., x 1-3/4" O.D., x 1/8" thick	1
46	305617	Lower short gathering chain CA-550 consisting of 26 total pitches, 17 plain links, 6 attachment links and 2 offset links and 1 connector link (for repair of chain see Page 58)	1
			2
47	304585	14 tooth sprocket for CA-550 chain, heat treated.	1
48	300041	Chain slide	2
	013831	Carriage bolt, 3/8 x 2-3/4"	2
49	303223	Chain slide plate	1
50	302321	Snapping unit cross angle 1-1/4" x 1-1/4" x 24-5/8", 324 wide row .	1
	302504	Snapping unit cross angle 1-1/4" x 1-1/4" x 17-5/8", 325 narrow row	1
	013580	Machine bolt, 3/8 x 3/4"	4
51	309006	Cross angle on idler bracket, 1-3/8 x 1-3/8 x 29", 324 wide row. .	1
	013583	Machine bolt, 3/8 x 1"	2
	309020	Cross angle on idler bracket, 1-3/8 x 1-3/8 x 22", 325 narrow row .	1

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS

SHORT GATHERING CHAIN DRIVE LEFT



P324-106B

Key	Part Number	Part Description	Used
1	010231	Cotter pin, 3/16 x 1-1/2"	2
2	K 864	Washer, 1-1/32" I.D. x 1-5/8" O.D. x 1/16" thick (use as req.)	1
3	302306	9 tooth sprocket - 2050 chain 1 splined	1
4	302307	Gathering chain drive chain 1-1/4" extended pitch #2050 chain con- sisting of 32 total pitches 31 pitches riveted type and 1 connecting link (for repair of chain see Page 58)	1
5	K 2579	Bearing housing flangeette.	3
	013811	Carriage bolt, 5/16 x 3/4"	3
6	K 2752	Bearing, 1" bore	3
7	K 2692	Set screw, 1/4 x 1/4" cup point allen head	3
8	K 2809	Locking collar, 1" dia.	3
9	302303	Gathering chain drive shaft, 1" dia. x 35-3/8" long	1
10	K 4652	Grease seal, 1" I.D. x 1-11/16" O.D. x 1/4" thick	1
11	010480	Grease fitting, 1/4 x 28 N.F.T. 45 degree.	1
12	303538	Bearing cap with bearing cup	1
	013583	Machine bolt, 3/8 x 1"	4
13	K 4656	Shim .020 (use as required)	
	K 4657	Shim .005 (use as required)	
14	K 4659	Bearing cup tapered roller.	1
15	K 4660	Bearing cone, 1" bore.	1
16	011256	Key #13 woodruff, 3/16 x 1"	3
17	302298	Lower drive shaft assembly, 1" dia., x 7-5/8"	1
18	303686	14 tooth bevel gear splined.	1
19	302241	Gathering chain gear box.	1
	014077	Machine bolt, 1/2 x 1"	4

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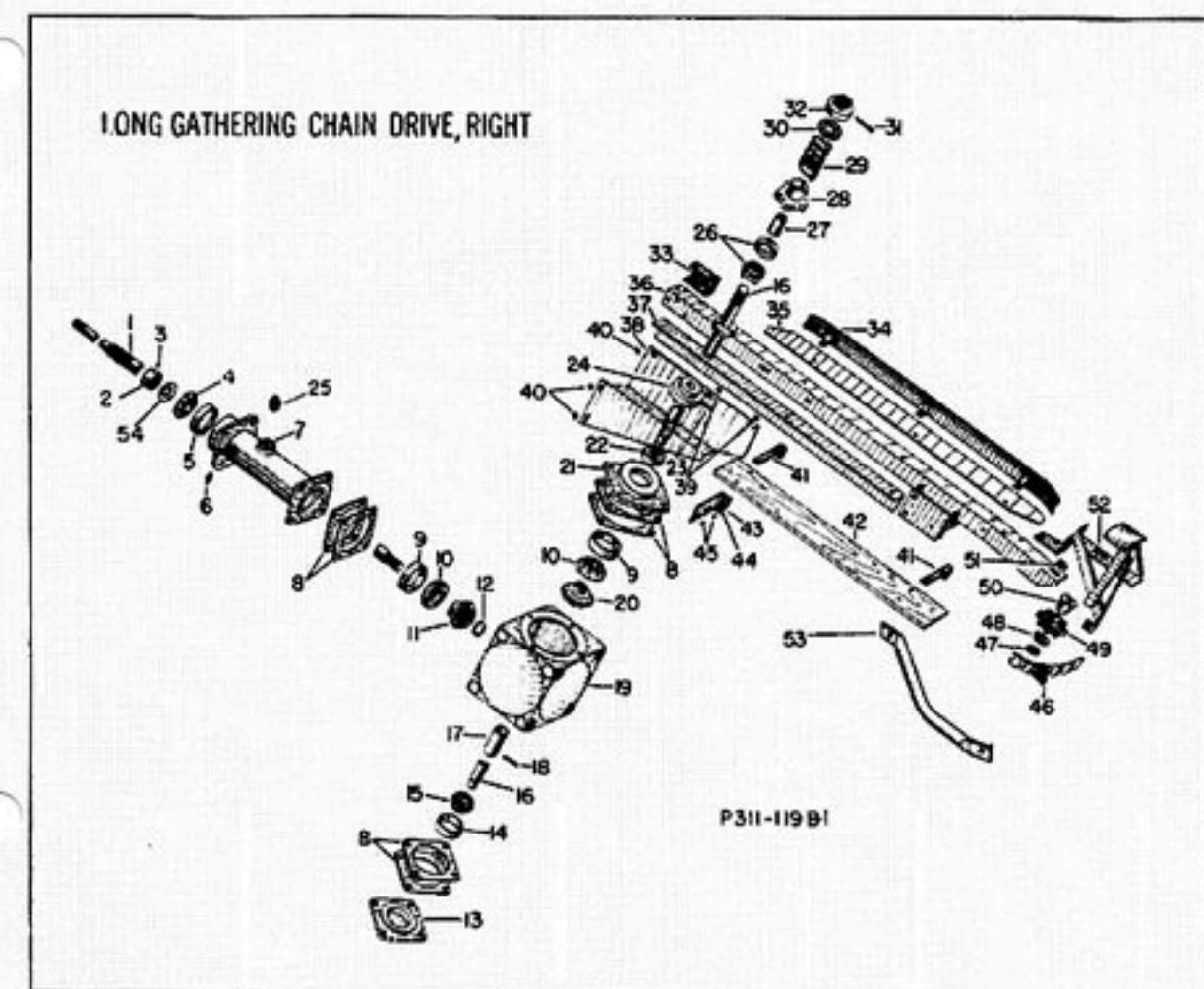
REPAIR PARTS

Key	Part Number	Part Description	Used
20	K 3840	Bearing cone, 1" bore.	1
21	K 3839	Bearing cup, tapered 1-25/32" O.D.	1
22	302243	Gear case cap (Order 302244).	1
	302244	Gear case cap with bearing cup.	1
	013583	Machine bolt, 3/8 x 1"	4
23	K 3706	Snap ring external	1
24	303685	15 tooth bevel gears splined.	1
25	300122	Gear case cap, upper	1
26	K 5006	Washer felt, 1-15/64" I.D., x 2" O.D., x 1/4" thick.	1
27	K 4310	Washer, 1-1/32" I.D., x 1-7/16" O.D., x 1/16" thick.	2
28	K 3302	Roll pin, 3/16 x 1-3/4".	1
29	301302	Bearing dust shield.	1
30	K 3454	Roll pin, 1/4 x 1-3/4".	1
31	304584	6 tooth sprocket, 1" bore keywayed.	1
32	305348	Upright shaft, 1" dia., 12-1/2" long	1
33	K 3461	Roll pin, 1/4 x 2".	1
34	305346	7 tooth sprocket, 1" bore keywayed.	1
35	K 5008	Extended flangette	1
	013811	Carriage bolt, 5/16 x 3/4".	3
36	712224	Snapping frame angle, L.H., 2 x 2-1/2" x 40-11/16"	1
	013613	Machine bolt, 1/2 x 1-1/4".	2
	014077	Machine bolt, 1/2 x 1".	2
37	305332	Short chain gathering slide, L.H.	1
38	303491	Weed shield.	1
	013939	Carriage bolt, 1/2 x 1" reg. short sq.	1
39	309000	Support assembly, short gathering chain, L.H.	1
	013841	Carriage bolt, 1/2 x 1".	4
40	K 2257	Washer, 21/32" I.D., x 1-3/8" O.D., x 1/16" thick	1
41	300172	Idler cone.	2
	013915	Carriage bolt, 5/8 x 4".	2
42	304879	11 tooth sprocket, hardened #CA-550 chain.	1
43	305347	Upper short gathering chain CA-550 consisting of 31 total pitches, 24 plain links, 5 attachment links and 1 offset link and 1 connector link (for repair of chain see Page 58)	1
44	K 2562	Washer, 21/32" I.D., x 2" O.D., x 3/16" thick	2
45	K 2274	Washer, 13/16" I.D., x 1-3/4" O.D., x 1/8" thick	1
46	305617	Lower short gathering chain CA-550 consisting of 26 total pitches, 17 plain links, 6 attachment links and 2 offset links and 1 connector link (for repair of chain see Page 58)	1
47	304585	14 tooth sprocket heat treated.	1
48	300041	Chain slide	1
	013831	Carriage bolt, 3/8 x 2-3/4".	1
49	303223	Chain slide plate	2
50	302321	Snapping unit cross angle, 1-1/4 x 1-1/4 x 25-5/8" - 324 wide row	1
	302504	Snapping unit cross angle, 1-1/4 x 1-1/4 x 17-5/8" - 325 narrow row	1
	013581	Machine bolt, 3/8 x 3/4".	4
51	309006	Cross angle on idler bracket, 1-3/8 x 1-3/8 x 29" - 324 wide row	1
	309020	Cross angle on idler bracket, 1-3/8 x 1-3/8 x 22" - 325 wide row	1
	013583	Machine bolt, 3/8 x 1".	2

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS



Key	Part Number	Part Description	Used
1	302238	Ratchet shaft, 1-1/4" dia. x 19-5/32" long	1
2	302239	Locking collar, threaded, 1-1/4" bore	1
3	010053	Set Screw, 3/8 x 5/8" drilled.	1
4	K 3549	Bearing cone, 1-1/4" bore	1
5	K 3548	Bearing cup, 2-21/64" dia.	1
6	011976	Grease fitting, 1/4 - N.S.T. straight	1
7	302236	Bearing tube (order 302237)	1
	302237	Bearing tube with bearing cup	1
	013583	Machine bolt, 3/8 x 1"	4
8	K 4656	Shim .020 (use as required)	
	K 4657	Shim .005 (use as required)	
9	K 4659	Bearing cup, 1-63/64" dia. tapered.	1
10	K 4660	Bearing cone, 1" bore	1
11	303685	14 tooth bevel gear splined.	1
12	010173	Snap ring kit (one pair)	1
13	302243	Gear box cover (order 302244)	1
	302244	Gear box cover with bearing cup.	1
	013583	Machine bolt, 3/8 x 1".	4
14	K 3839	Bearing cup, 1-25/32" O.D.	1

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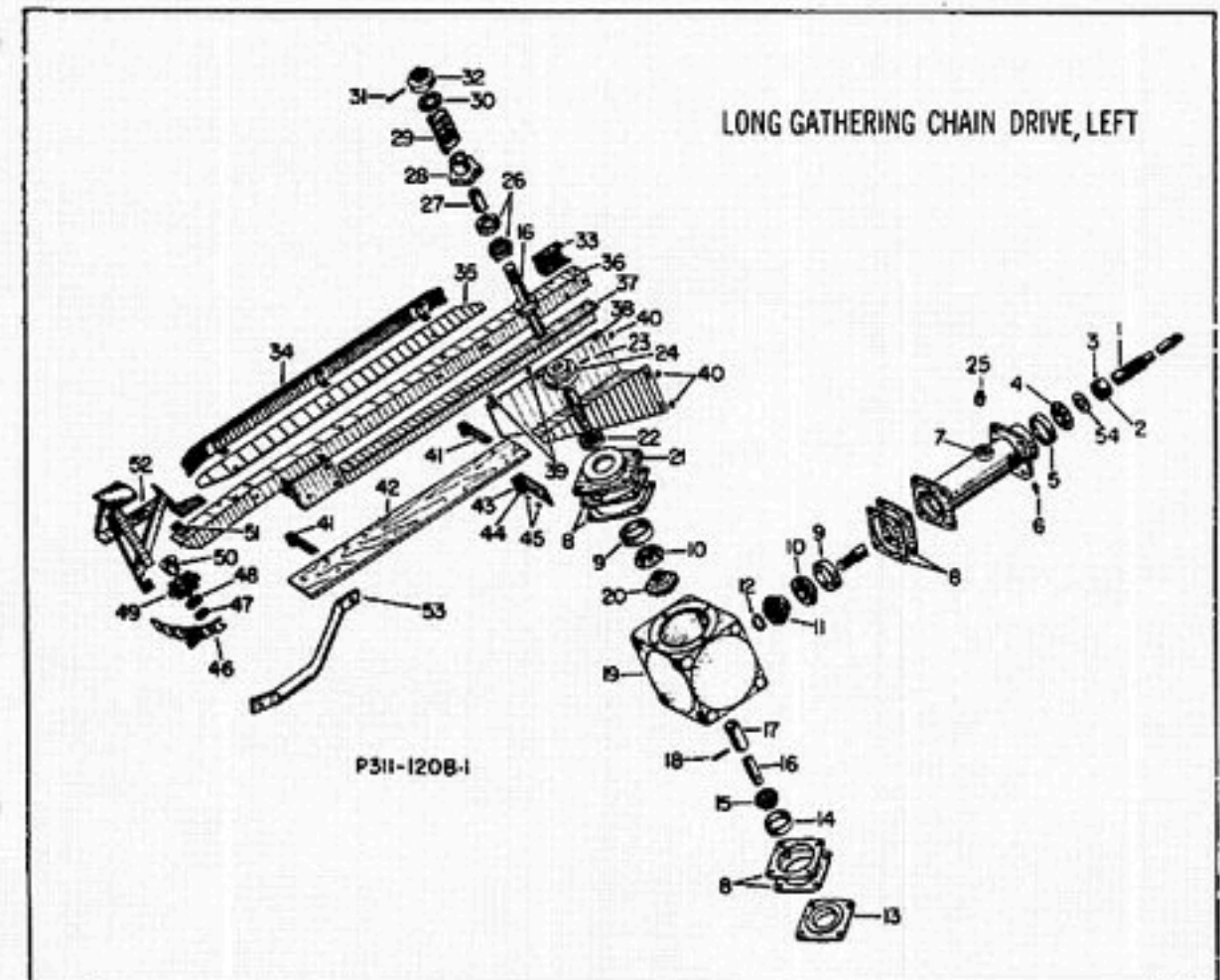
REPAIR PARTS

Key	Part Number	Part Description	Used
15	K 3840	Bearing cone, 3/4" bore	1
16	305812	Short ratchet shaft, 1" dia. x 13-17/32" long	1
17	302247	Spacer, 3/4" std. black pipe, x 2-15/16" long	1
18	K 3534	Roll pin, 1/4 x 1-3/8"	1
19	302241	Gathering chain gear box	1
	014077	Machine bolt, 1/2 x 1"	4
20	303655	15 tooth bevel gear, 1" splined	1
21	303877	Gear box cover with grease seal and bearing cup	1
	013583	Machine bolt, 3/8 x 1"	4
22	K 4652	Grease seal, 1" I.D. x 1-11/16" O.D. x 1/4" thick	1
23	K 2833	Roll pin 13/64" O.D. x 1-1/2" long	2
24	303874	Bearing dust shield	1
25	K 659	Pipe plug 3/4"	1
26	E 395	Ratchet plate	2
27	K 3180	Bushing bronze, 1" I.D. x 1-1/4" O.D. x 2" long	1
28	302248	5 tooth sprocket, 1" bore (order 302249)	1
	302249	5 tooth sprocket with bushing	1
	302428	6 tooth sprocket, 1" bore with bushing (speed up sprocket for gathering chains)	1
29	2612 P	Compression spring, 3-3/4" long 6 coils	1
30	K 965	Washer, 1-17/64" I.D. x 2-0/16" O.D. x 5/32" hardened	1
31	010246	Cotter pin, 1/4 x 2-1/4"	1
32	118 PM	Slip clutch nut, 1/4 x 2-1/4"	1
33	302231	Filler sheet, 5-1/2" long	1
	013563	Machine bolt, 5/16 x 3/4"	2
34	309087	Chain slide assembly	1
	013566	Machine bolt, 5/16 x 1-1/4"	3
35	302225	Chain slide plate	1
36	302210	Snapping unit angle assembly, R.H.	1
	014077	Machine bolt, 1/2 x 1"	4
37	302230	Angle filler shield, R.H., 32-3/4" long	1
	013565	Machine bolt, 5/16 x 1"	1
	013563	Machine bolt, 5/16 x 3/4"	1
38	302218	Outside enclosure sheet, R.H.	1
	013988	Machine screw, 5/16 x 3/4"	3
	013811	Carriage bolt, 5/16 x 3/4"	2
39	K 835	Washer, 11/32" I.D. x 1-3/8" O.D. x 1/16" thick	2
40	K 3037	Washer, 11/32" I.D. x 11/16" O.D. x 1/16" thick	3
41	302223	Board support	2
	013841	Carriage bolt, 1/2 x 1"	2
42	302224	Wood chain slide, 5" wide, 33-15/16" long, 25/32" thick	1
	013097	Rivet, 1/4 x 1-3/16"	4
43	302220	Gear box support	1
44	K 846	Washer, 17/32" I.D. x 1-1/2" O.D. x 1/16" thick	1
45	K 1852	Washer, 17/32" I.D. x 1" O.D. x 1/16" thick	2
46	302320	Long gathering chain with (33) #67W plain links and (12) 67W-C23 attachment links, 1 plain link followed by 9 attachment links each followed by 3 plain links, then 2 attachment links followed by 2 plain links, then 1 attachment link followed by 1 plain link (for repair of chain see Page 58)	1
	67W-C23	Attachment link	1
	67W	Plain link	1
47	K 2257	Washer, 21/32" I.D. x 1-3/8" O.D. x 1/16" thick	1
48	K 2562	Washer, 21/32" I.D. x 2" O.D. x 3/16" thick	1
49	302826	8 tooth sprocket, 1" bore	1
50	300172	Idler cone	1
	013916	Carriage bolt, 5/8 x 4-1/4"	1
51	K 2827	Washer, 21/32" I.D. x 2" O.D. x 1/8" thick	1
52	309005	Pivot support assembly, R.H.	1
	013613	Machine bolt, 1/2 x 1-1/4"	2
53	303522	Long gathering chain unit support brace	1
54	010512	Washer, 1-5/32" I.D., x 2" O.D., x 1/16"	A.R.

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS



Key	Part Number	Part Description	Used
1	302238	Ratchet shaft, 1-1/4" dia. x 19-5/32" long	1
2	302239	Locking collar, threaded, 1-1/4" bore	1
3	010053	Set screw, 3/8 x 5/8" drilled	1
4	K 3549	Bearing cone, 1-1/4" bore	1
5	K 3548	Bearing cup, 2-21/64" dia.	1
6	011976	Grease fitting, 1/4 N.S.T. straight	1
7	302236	Bearing tube (order 302237)	1
	302237	Bearing tube with bearing cup	1
	013583	Machine bolt, 3/8 x 1"	4
8	K 4656	Shim .020 use as required	
	K 4657	Shim .005 use as required	
9	K 4659	Bearing cup, 1-63/64" dia. tapered	1
10	K 4660	Bearing cone, 1" bore	1
11	303686	14 tooth bevel gear splined	1
12	010173	Snap ring kit (one pair)	1
13	302243	Gear box cover (order 302244)	
	302244	Gear box cover with bearing cup	
	013583	Machine bolt, 3/8 x 1"	4

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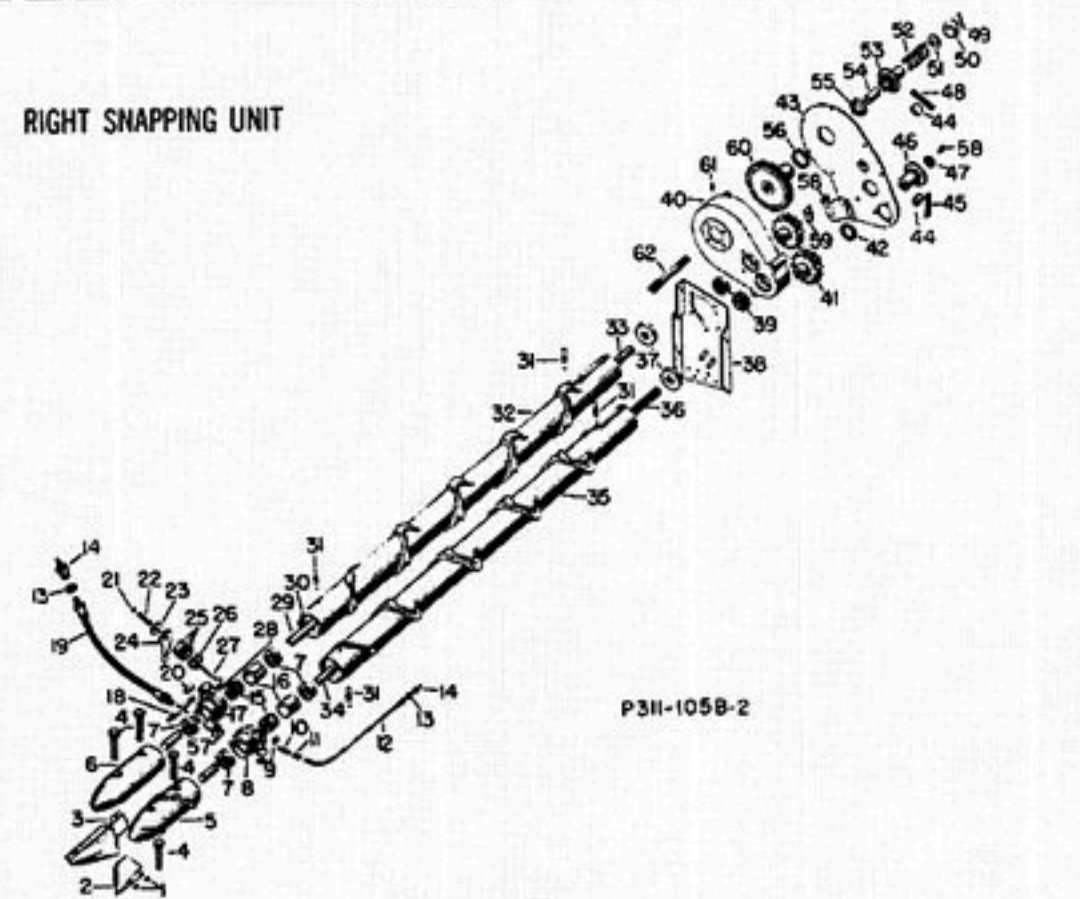
REPAIR PARTS

Key	Part Number	Part Description	Used
14	K 3839	Bearing cup, 1-25/32" O.D.	1
15	K 3840	Bearing cone, 3/4" bore	1
16	305812	Short ratchet shaft, 1" dia. x 13-17/32" long	1
17	302247	Spacer, 3/4" std. black pipe x 2-15/16" long	1
18	K 3634	Roll pin, 1/4 x 1-3/8"	1
19	302241	Gathering chain gear box	1
	014077	Machine bolt, 1/2 x 1"	4
20	303685	15 tooth bevel gear, 1" splined	1
21	303877	Gear box cover with grease seal and bearing cup	1
	013583	Machine bolt, 3/8 x 1"	4
22	K 4652	Grease seal, 1" I.D. x 1-11/16" O.D. x 1/4" thick	1
23	K 2833	Roll pin, 13/64" dia. x 1-3/8" long	2
24	303874	Bearing dust shield	1
25	K 659	Pipe plug 3/4"	1
26	E 395	Ratchet plate	2
27	K 3180	Bushing bronze 1" I.D. x 1-1/4" O.D. x 2" long	1
28	302248	5 tooth sprocket, 1" bore (order 302249)	1
	302249	5 tooth sprocket with bushing	1
	302428	6 tooth sprocket, 1" bore with bushing (speed up sprockets for gathering chains)	1
29	2612 P	Compression spring, 3-3/4" long, 6 coils	1
30	K 965	Washer, 1-17/64" I.D. x 2-9/16" O.D. x 5/32" hardened	1
31	010246	Cotter pin, 1/4 x 2-1/4"	1
32	118 PM	Slip clutch nut, 1/4 x 2-1/4"	1
33	302231	Filler sheet, 5-1/2" long	1
	013563	Machine bolt, 5/16 x 3/4"	2
34	309087	Chain slide assembly	1
	013565	Machine bolt, 5/16 x 1-1/4"	3
35	302225	Chain slide plate	1
36	302209	Snapping unit angle assembly, L.H.	1
	014077	Machine bolt, 1/2 x 1"	4
37	302229	Angle filler sheet, L.H. 32-3/4" long	1
	013565	Machine bolt, 5/16 x 1"	1
	013563	Machine bolt, 5/16 x 3/4"	1
38	302217	Outside enclosure sheet, L.H.	1
	013988	Machine screw, 5/16 x 3/4"	3
	013811	Carriage bolt, 5/16 x 3/4"	2
39	K 835	Washer, 11/32" I.D. x 1-3/8" O.D. x 1/16" thick	2
40	K 3037	Washer, 11/32" I.D. x 11/16" O.D. x 1/16" thick	3
41	302223	Board supports	2
	014077	Bolt, 1/2 x 1"	2
42	302224	Wood chain slide, 5" wide, 33-15/16" long, 25/32" thick	1
	013097	Rivet, 1/4 x 1-3/16"	4
43	302219	Gear box support	1
44	K 846	Washer, 17/32" I.D. x 1-1/2" O.D. x 1/16" thick	1
45	K 1852	Washer, 17/32" I.D. x 1" O.D. x 1/16" thick	2
46	302320	Long gathering chain with 33 - 67 W plain links and 12 - 67W-C23 attachment links, 1 plain link followed by 9 attachment links each followed by 3 plain links then 2 attachment links followed by 2 plain links then 1 attachment link followed by 1 plain link	1
	67W-C23	Attachment link (for repair of chain see Page 58)	
	67 W	Plain link	
47	K 2257	Washer, 21/32" I.D. x 1-3/8" O.D. x 1/16" thick	1
48	K 2562	Washer, 21/32" I.D. x 2" O.D. x 3/16" thick	1
49	302826	8 tooth sprocket	1
50	300172	Idler cone	1
	013916	Carriage bolt, 5/8 x 4-1/4"	1
51	K 2827	Washer, 21/32" I.D. x 2" O.D. x 1/8" thick	1
52	309004	Pivot support assembly, L.H.	1
	013613	Machine bolt, 1/2 x 1-1/4"	2
53	303521	Long gathering chain unit support brace	1
54	010512	Washer, 1-5/32" I.D., x 2" O.D., x 1/16"	A.R.

NO. 324 AND 325 TWO ROW PICKERS

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REPAIR PARTS

RIGHT SNAPPING UNIT			
 <p>P3H-105B-2</p>			
Key	Part Number	Part Description	Used
1	K 813	Washer 13/32" I.D. x 1" O.D. x 1/8" thick	2
2	302285	Entry guide, inner	1
	013583	Machine bolt 3/8 x 1"	2
3	302297	Entry guide, outer	1
	013565	Machine bolt, 5/16 x 1"	1
4	012841	Machine bolt, 3/8 x 1-3/8" Grade 5	4
5	725193	Lower roll tip	1
6	725192	Upper roll tip	1
7	K 4652	Grease seal 1-11/16" O.D. x 1" I.D.	4
8	302256	Bearing housing	1
9	0165 HS	Washer 17/32" I.D. x 1-3/8" O.D. x 5/64" thick, trimmed	2
10	K 639	Pipe nipple 1/8 x 2"	1
11	K 655	Pipe coupling 1/8"	1
12	010051	Oil line 22" for 324 wide row	1
	K 2920	Oil line 17" for 325 narrow row	1
13	K 3004	Washer 13/32" I.D. x 13/16" O.D. x 1/16" thick	1
14	011961	Grease fitting 1/8 female N.P.T. straight	1
15	K 4650	Roller bearing 1" I.D. x 1-1/2" O.D. x 1-7/16" long	2
16	K 4651	Split sleeve for roller bearing 1-1/2" I.D. x 1-11/16" O.D. x 1-1/2" long	2
17	305804	Bearing housing, with bushing	1
18	302258	Stud bolt, 3/4" O.D. x 7" long	1
19	K 2920	Oil line, 17" long	1
20	K 4653	Bearing bronze 3/4" I.D. x 1" O.D. x 1-3/4" long	1

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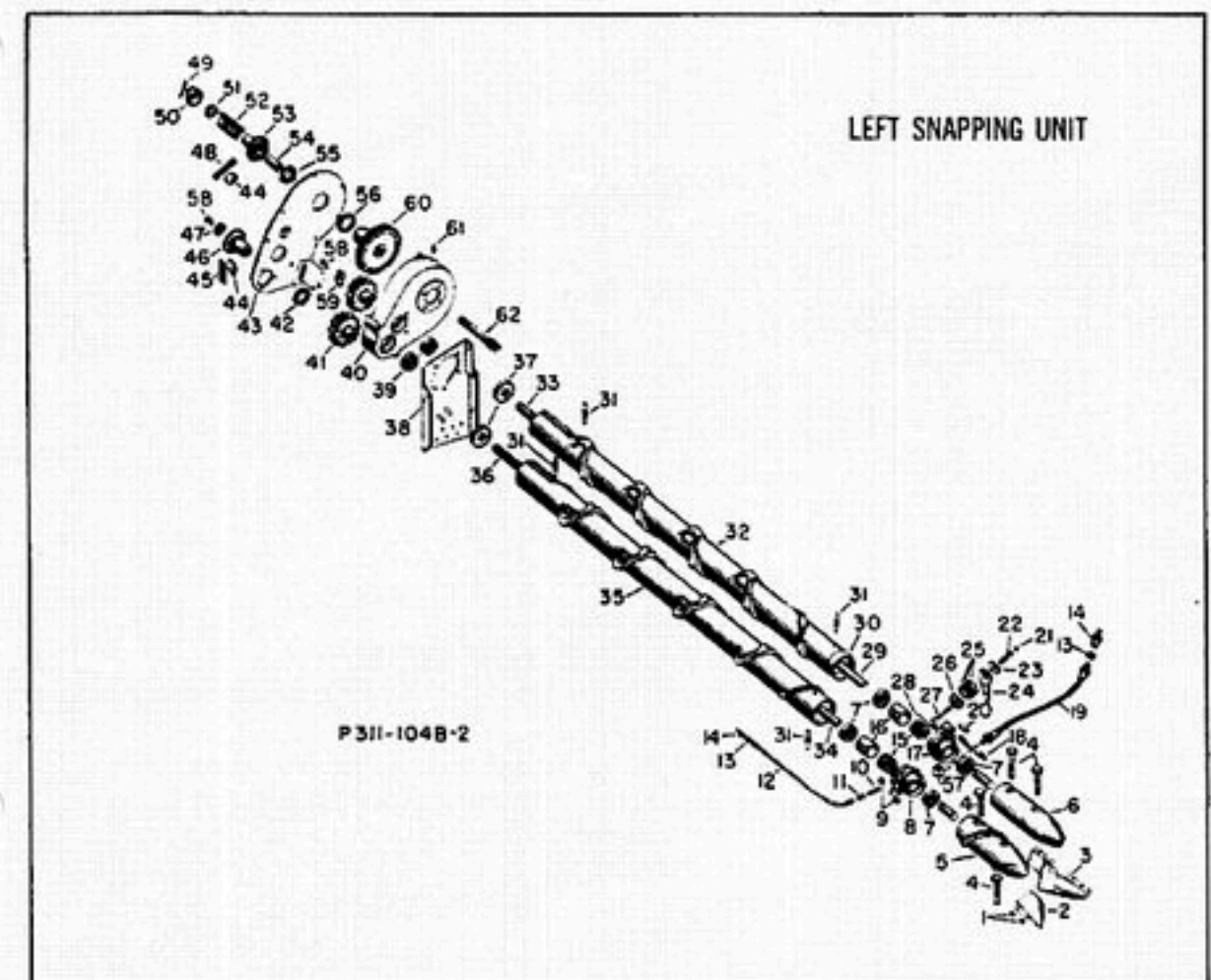
REPAIR PARTS

Key	Part Number	Part Description	Used
21	K 2884	Jam nut 3/8"	1
22	0551 HS	Compression spring 7/8" O.D. x 1-1/2" long, 6 coils.	1
23	300138	Washer 5/8" I.D. x 2-3/8" O.D. x 3/32" thick	1
24	300137	Adjustment lever	1
	013583	Machine bolt 3/8 x 1"	3
25	K 4954	Washer 2-1/16" I.D. x 3-1/2" O.D. x 7/64" thick	3
26	300136	Adjustment cam	1
27	300139	Adjustment bolt, 3/8"	1
28	010210	Cotter pin 3/32" x 3/4"	1
29	725203	Stub shaft - long - 1" O.D. x 12" long	1
30	302053	Roll extension	1
31	K 1647	Drive pin 5/16 x 2-1/2"	4
32	308271	Snapping roll with trunnion at both ends upper right	1
33	302255	Snapping roll trunnion - short - 1-1/4 x 8-9/16" long, splined	1
34	725204	Stub shaft short - 1" dia. x 10-3/4" long	1
35	308272	Snapping roll with trunnion at both ends, lower right	1
36	302254	Snapping roll trunnion long, 1-1/4 x 10-3/8" long, splined.	1
37	301232	Spacer 1-19/32" I.D. x 2-3/4" O.D. x 5/8" thick	2
38	725857	Snapping roll support assembly.	1
	014077	Machine bolts 1/2 x 1"	4
39	010830	Bearing ball 1-1/4" dia.	2
40	302233	Snapping unit drive housing right hand	1
	014077	Machine bolt 1/2 x 1"	4
41	302274	13 tooth spur gear splined	2
42	K 4661	Seal 1-1/4" I.D. x 1-3/4" O.D. x 1/4" thick	1
43	302278	Gear case cover ass'y.	1
	013563	Machine bolt, 5/16 x 3/4"	5
44	300041	Chain slide	2
	013831	Carriage bolt, 3/8 x 2-3/4"	1
45	302288	Snapping unit drive chain assembly #60 - 3/4 pitch - 48 total pitches, 47 riveted type and 1 connector link (for repair of chain see Page 58)	1
46	302276	18 tooth sprocket # 60 chain, splined	1
47	K 4147	Washer 17/32" I.D. x 1-3/4" O.D. x 3/16" thick.	1
48	302307	Gathering chain drive chain 1-1/4 extended pitch No. #2050 roller chain consisting of 32 total pitches 31 riveted type pitches and 1 connector link (for repair of chain see Page 58)	1
49	010246	Cotter pin 1/4 x 2-1/4"	1
50	302287	Slip clutch nut, 3/4"	1
51	K 965	Washer 1-1/4" I.D. x 2-9/16" O.D. x 5/32" thick hardened	1
52	2612 P	Compression spring 2-1/2" O.D. x 3-3/4" long 6 coils	1
53	305597	9 tooth sprocket assembly, with bushing 3/4" I.D.	1
	302282	21 tooth sprocket assembly, with bushing, 3/4" I.D. (to speed up gathering chains)	1
54	010056	Bearing - bronze 7/8" I.D. x 1-1/8" O.D. x 2" long	1
55	E 395	Ratchet plate	1
56	010055	Seal 3-1/4" O.D. x 1/4" thick	1
57	K 3342	Street elbow, 90° - 1/8" - 27 N.P.T.	1
58	010640	Bolt 1/2 x 1" full body - drilled	2
59	304156	Oblong locking washer	1
60	302240	33 tooth spur gear splined	1
61	011962	Grease fitting 1/8 N.P.T. straight	1
62	302238	Ratchet shaft - 1-1/4" O.D. shouldered, 19-5/32" long, splined	1

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS



P 311-1048-2

Key	Part Number	Part Description	Used
1	K 813	Washer, 13/32" I.D. x 1" O.D. x 1/8" thick	2
2	302295	Entry Guide, inner	1
	013583	Machine bolt, 3/8 x 1"	2
3	302296	Entry guide, outer	1
	013565	Machine bolt, 5/16 x 1"	2
4	012841	Machine bolt, 3/8 x 1-3/8" Grade 5	4
5	725194	Lower roll tip	1
6	725192	Upper roll tip	1
7	K 4652	Grease seal, 1-11/16" O.D. x 1" I.D.	4
8	302256	Bearing housing	1
9	0165 HS	Washer, 17/32" I.D. x 1-3/8" O.D. x 5/64" thick, trimmed	2
10	K 639	Pipe nipple, 1/8 x 2"	1
11	K 655	Pipe coupling, 1/8"	1
12	010051	Oil line, 22" for 324 wide row	1
	K 2920	Oil line, 17" for 325 narrow row	1
13	K 3004	Washer, 13/32" I.D. x 13/16" O.D. x 1/16" thick	1
14	011961	Grease fitting, 1/8" female N.P.T. straight	1
15	K 4650	Roller bearing, 1" I.D. x 1-1/2" O.D. x 1-7/16" long	2
16	K 4651	Split sleeve for roller bearing, 1-1/2" I.D. x 1-11/16" O.D. x 1-1/2" long	1
17	305803	Bearing housing, with bushing	1
18	302258	Stud bolt, 3/4" O.D. x 7" long	1
19	K 2920	Oil line, 17" long	1

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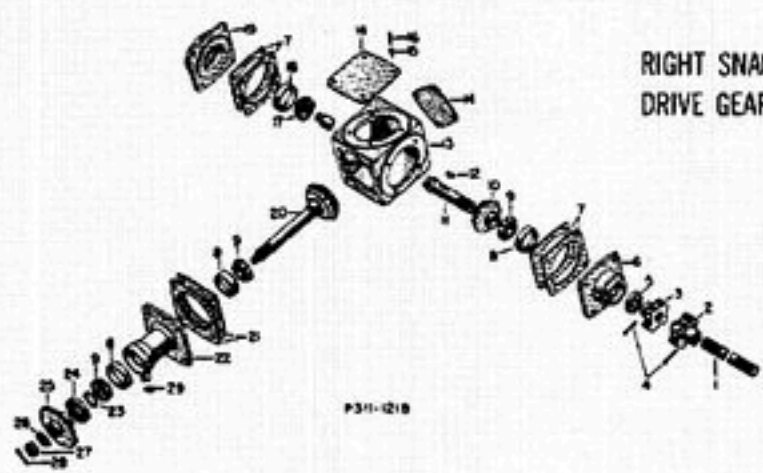
REPAIR PARTS

Key	Part Number	Part Description	Used
20	K 4653	Bearing bronze, 3/4" I.D. x 1" O.D. x 1-3/4" long.	1
21	K 2684	Jam nut, 3/8"	1
22	0551 HS	Compression spring, 7/8" O.D. x 1-1/2" long 6 coils.	1
23	300136	Washer, 5/8" I.D. x 2-3/8" O.D. x 3/32" thick.	1
24	300137	Adjustment lever.	1
	013583	Machine bolt, 3/8 x 1".	3
25	K 4954	Washer, 2-1/16" I.D. x 3-1/2" O.D. x 7/64" thick.	3
26	300136	Adjustment cam.	1
27	300139	Adjustment bolt, 3/8"	1
28	010210	Cotter pin, 3/32 x 3/4".	1
29	725203	Stub shaft, long, 1" O.D. x 12" long.	1
30	302053	Roll extension.	1
31	K 1647	Drive pin, 5/16 x 2-1/2".	4
32	308269	Snapping roll with trunnion at both ends upper left.	1
33	302255	Snapping roll trunnion, short, 1-1/4" O.D. x 8-9/16" long splined.	1
34	725204	Stub shaft short, 1" dia. x 10-3/4" long.	1
35	308270	Snapping roll with trunnion at both ends lower left.	1
36	302254	Snapping roll trunnion, long - 1-1/4" dia. x 10-3/16" long splined.	1
37	301232	Spacer, 1-19/32" I.D. x 2-3/4" O.D. x 5-8" thick.	2
38	725859	Snapping roll support assembly.	1
	014077	Machine bolt, 1/2 x 1".	1
39	010830	Bearing ball, 1-1/4" dia.	2
40	302232	Snapping unit drive housing left hand.	1
	014077	Machine bolt, 1/2 x 1".	4
41	302274	13 tooth spur gear splined.	2
42	K 4661	Seal, 1-1/4" I.D. x 1-3/4" O.D. x 1/4" thick.	1
43	302277	Gear case cover assembly.	1
	013563	Machine bolt, 5/16 x 3/4".	5
44	300041	Chain slide.	1
	013937	Carriage bolt, 3/8 x 2-3/4".	1
45	302288	Snapping unit drive chain assembly # 60 3/4" pitch, 48 total pitches. 47 riveted type and 1 connector link (for repair of chain see Page 58).	1
46	302276	18 tooth sprocket # 60 chain, splined.	1
47	K 4147	Washer, 17/32" I.D. x 1-3/4" O.D. x 3/16" thick.	1
48	302307	Gathering chain drive chain assembly 1-1/4" extended pitch # 2050 roller chain consisting of 32 total pitches 31 riveted type pitches and 1 connector link (for repair of chain see Page 58).	1
49	010245	Cotter pin, 1/4 x 2-1/4".	1
50	302287	Slip clutch nut, 3/4".	1
51	K 965	Washer, 1-1/4" I.D. x 2-9/16" O.D. x 5/32" thick hardened.	1
52	2612 P	Compression spring, 2-1/2" O.D. x 3-3/4" long, 6 coils.	1
53	305597	9 tooth sprocket assembly with bushing, 3/4" I.D.	1
	302282	21 tooth sprocket assembly, with bushing, 3/4" I.D. (to speed up gathering chains).	1
54	010056	Bushing, bronze, 7/8" I.D. x 1-1/6" O.D. x 2" long.	1
55	E 395	Ratchet plate.	2
56	010055	Seal, 3-1/4" O.D. x 1/4" thick.	1
57	K 3342	Street elbow, 90° - 1/8" - 27 N.P.T.	1
58	010640	Bolt 1/2 x 1" - full body - drilled.	2
59	304156	Oblong locking washer.	1
60	302240	33 tooth spur gear splined.	1
61	011962	Grease fitting, 1/8 N.P.T. straight.	1
62	302238	Ratchet shaft, 1-1/4" O.D. shouldered 1915/32" long, splined.	1

NO. 324 AND 325 TWO ROW PICKERS

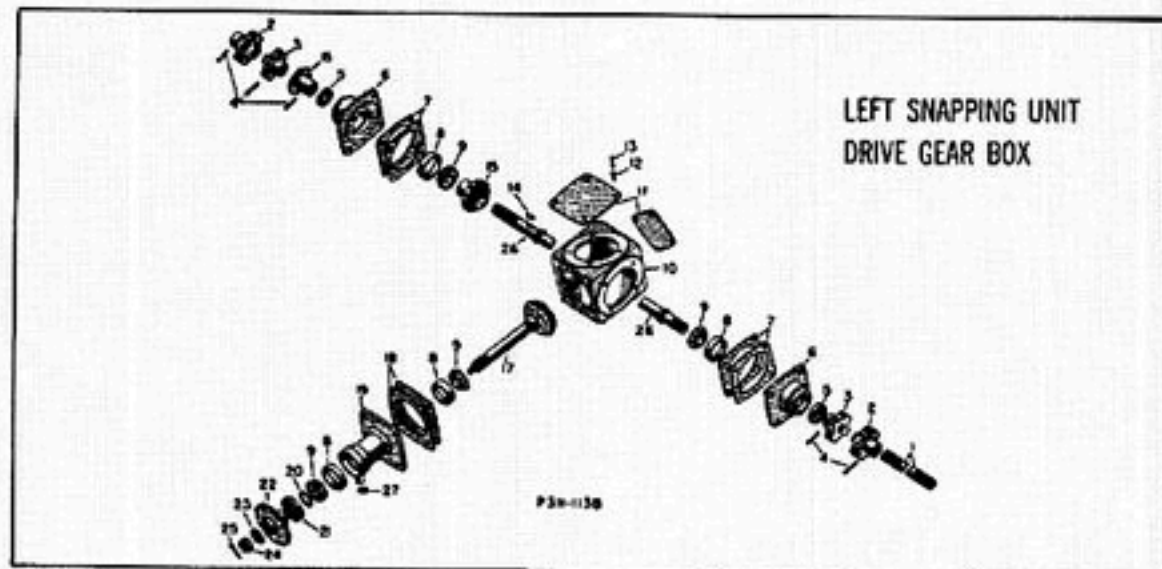
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REPAIR PARTS

			
Key	Part Number	Part Description	Used
1	302136	Floating coupling shaft, R.H., 1-1/4 x 21-53/64" long, splined - 324 wide row.	1
	302481	Floating coupling shaft, R.H., 1-1/4 x 14-53/64" long, splined - 325 narrow row.	1
2	301576	Female - half - flexible coupling, splined.	1
3	301535	Male half - flexible coupling, splined.	1
4	010248	Cotter pin, 1/4 x 2-3/4".	2
5	K 5010	Oil seal, 1-1/4" I.D. x 1-3/4" O.D. x 3/8" thick.	1
6	302140	Bearing cap (order 302139).	1
	302139	Bearing cap with one K 3548 bearing cup.	1
	013583	Machine bolt, 3/8 x 1".	4
7	K 4856	Shim .020.	use as req.
	K 4857	Shim .005.	use as req.
8	K 3548	Bearing cup, 2-21/64" O.D. x 15/32" thick.	3
9	K 3549	Bearing cone, 1-1/4" bore, 21/32" thick.	3
10	302145	15 tooth bevel gear, 1-1/4" bore.	1
11	302151	Input shaft assembly, 1-1/4" dia. x 10-27/64" long, splined.	1
12	011271	Key, #18 woodruff, 1/4 x 1-1/8" long.	1
13	725053	Gear box.	2
	013580	Machine bolt, 3/8 x 3/4".	4
14	300132	Gear box cover.	2
	013580	Machine bolt, 3/8 x 3/4".	4
15	010048	Machine bolt, 3/8 x 3/4" drilled.	1
16	010218	Cotter pin, 1/8 x 1-1/2".	1
17	K 3357	Bearing cone, 27/32" bore, 23/32" thick.	1
18	K 3356	Bearing cup, 1-31/32" dia. x 35/64" thick.	1
19	302149	Bearing cap (order 302150).	1
	302150	Bearing cap with K 3356 bearing cup.	1
	013583	Machine bolt, 3/8 x 1".	4
20	302146	Output shaft with 20 tooth bevel gear.	1
21	K 4665	Shim .005.	use as req.
	K 4664	Shim .020.	use as req.
22	302138	Bearing tube (order 302137).	1
	302137	Bearing tube with two K 3548 bearing cups.	1
	013583	Machine bolt, 3/8 x 1".	4
	013637	Machine bolt, 5/8 x 1-1/4".	1
23	010047	"O" ring, 7/8" I.D. x 1-1/16" O.D. x 7/64" thick.	1
24	012851	Oil seal, 1-3/4" I.D. x 2-5/8" O.D. x 5/8" thick.	1
25	302148	23 tooth sprocket, # 60 chain, 1-1/4" bore splined.	1
	304368	20 tooth sprocket, # 60 chain, 1-1/4" bore, splined.	1
26	K 4576	Washer, 13/16" I.D. x 1-3/4" O.D. x 3/16" thick.	1
27	K 3168	3/4" Nut slotted.	1
28	010231	Cotter pin, 3/16 x 1-1/2".	1
29	K 2257	Washer, 21/32" I.D. x 1-3/8" O.D. x 1/16" thick.	1

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REPAIR PARTS

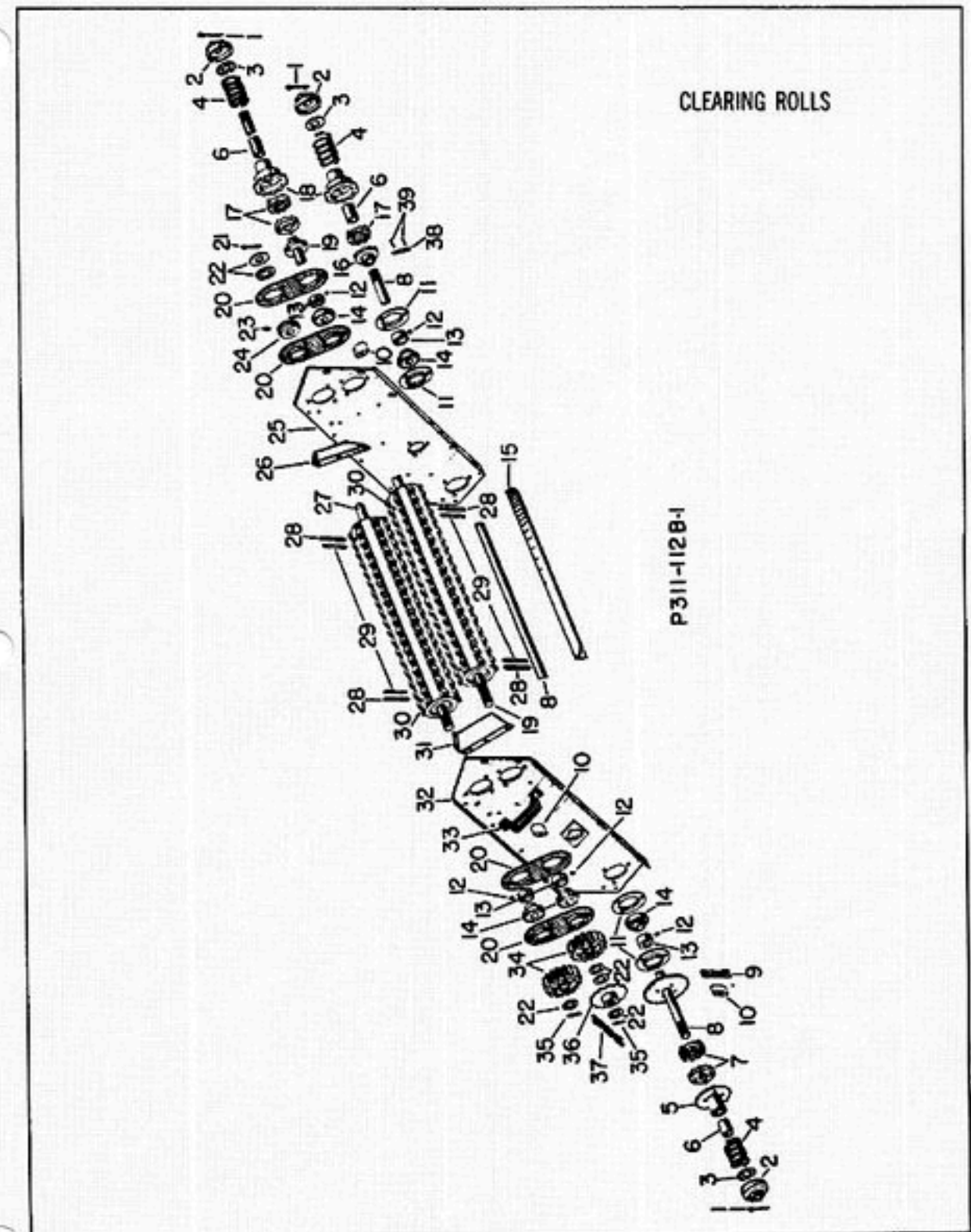


Key	Part Number	Part Description	Used
1	302135	Floating coupling shaft 1-1/4" dia., splined 27-17/64" long, #324 wide row	1
	302480	Floating coupling shaft 1-1/4" dia., splined 34-17/64" long, #325 narrow row	1
2	301576	Female half, flexible coupling, splined	2
3	301535	Male half, flexible coupling, splined	2
4	010248	Cotter pin, 1/4 x 2-3/4"	5
5	K 5010	Oil seal, 1-1/4" I.D. x 1-3/4" O.D., 3/8" thick	2
6	302140	Bearing cap, Order 302139	2
	302139	Bearing cap with one K 3548 bearing cup	
	013583	Machine bolt, 3/8 x 1"	4
7	K 4656	Shim .020 (as required)	
	K 4657	Shim .005 (as required)	
8	K 3548	Bearing cup, 2-21/64" O.D. x 15/32" thick	4
9	K 3549	Bearing cone, 1-1/4" bore x 21/32" thick	4
10	725053	Gear box	1
	013580	Machine bolt, 3/8 x 3/4"	4
11	300132	Gear box cover	2
	013580	Machine bolt, 3/8 x 3/4"	4
12	010048	Machine bolt drilled, 3/8 x 3/4"	1
13	010218	Cotter pin, 1/8 x 1-1/2"	1
14	011271	Key, #18 woodruff, 1/4 x 1-1/8" long	1
15	302145	15 tooth bevel gear, 1-1/4" bore	1
16	302144	18 tooth sprocket #50 - RC chain 1-1/4" bore, splined	1
17	302146	Output shaft assembly with 20 tooth bevel gear	1
18	K 4665	Shim .005 (as required)	
	K 4664	Shim .020 (as required)	
19	302138	Bearing tube, order 302137	1
	302137	Bearing tube with two K 3548 bearing cup	
	013583	Machine bolt, 3/8 x 1"	4
	013637	Machine bolt 5/8 x 1-1/4"	1
20	010047	"O" ring, 7/8" I.D. x 1-1/16" O.D. x 7/64" thick	1
21	012851	Oil seal 1-3/4" I.D. x 2-4/8" O.D. x 5/8" thick	1
22	302148	23 tooth sprocket # 60 1-1/4" bore, splined	1
	304368	20 tooth sprocket, # 60 chain, 1-1/4" bore, splined	1
23	K 4576	Washer, 13/16" I.D. x 1-3/4" O.D. x 3/16" thick	1
24	K 3168	Nut, 3/4 slotted	1
25	010231	Cotter pin, 3/16 x 1-1/2"	1
26	302141	Input shaft 1-1/4" dia. x 15-7/16" long splined	1
27	K 2257	Washer, 21/32" I.D. x 1-3/8" O.D. x 1/16" thick	1

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS



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REPAIR PARTS

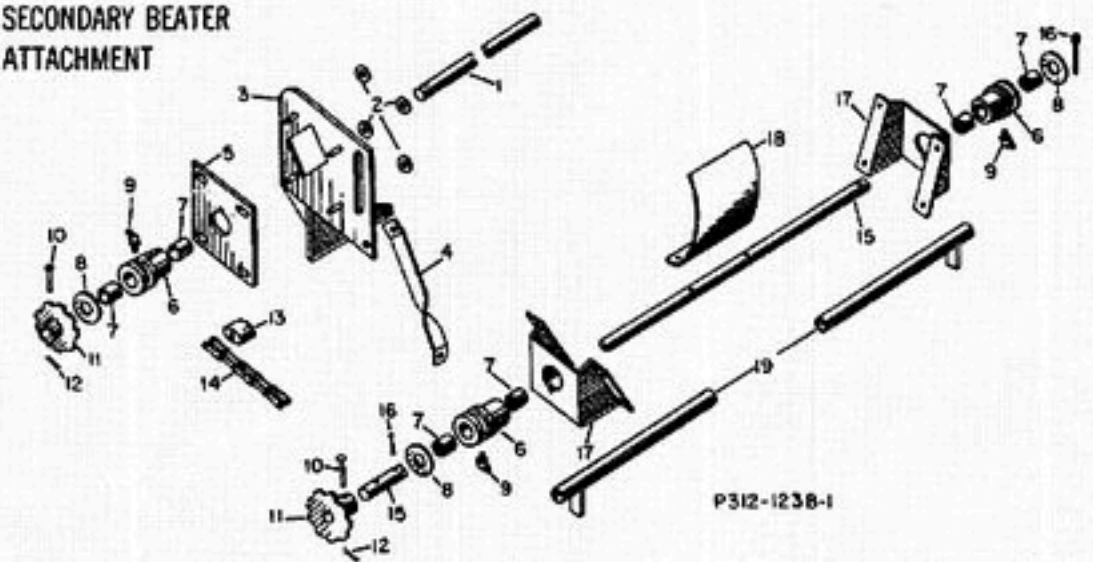
Key	Part Number	Part Description	Used
1	010246	Cotter pin, 1/4 x 2-1/4"	3
2	118 PM	Slip clutch nut, 3/4"	3
3	K 965	Washer, 1-1/4" I.D. x 2-9/16" O.D. x 5/32" hardened	3
4	2612 P	Compression spring, 3-3/4" long, 6 coils	3
5	302185	22 tooth sprocket, RC 2050, 1" bore	2
6	K 3180	Bearing, 1" I.D. x 1-1/4" O.D. x 2" long, bronze	3
7	101 PM	Ratchet plate	2
8	302181	First elevator jack shaft assembly 1" dia., 36-29/32" long (#324 wide row)	1
9	302493	First elevator jack shaft assembly 1" dia., 29-29/32" long (#325 narrow row)	1
10	302201	First elevator jack shaft drive chain, 5/8" pitch chain #50 consisting of 96 total pitches, 95 pitches riveted type and 1 connecting link (For repair of chain see Page 58)	1
11	300041	Chain slide	3
12	013831	Carriage bolt, 3/8 x 2-3/4"	1
13	K 2579	Bearing housing, flange	3
14	013811	Carriage bolt, 5/16 x 3/4"	6
15	K 2692	Set screw, 1/4 x 1/4 cup point allen hd.	5
16	K 2809	Lock collar, 1" I.D.	5
17	K 2752	Bearing ball, 2-1/8" O.D. x 1" I.D.	5
18	305425	First elevator support angle, 1 x 5/8 x 24-7/8" (#324 wide row)	1
19	305426	First elevator support angle, 1 x 5/8 x 17-7/8" (#325 narrow row)	1
20	302184	Ratchet hub	1
21	E 395	Ratchet plate	3
22	309037	12 tooth slip clutch sprocket assembly (#325 narrow row)	1
23	718998	10 tooth slip clutch sprocket assembly with one K 3180 bushing, 1" bore. . . #324 wide row - 2 used #325 narrow row	1
24	304056	14 tooth sprocket assembly (Speed up for first elevator, lower clearing roll shaft)	1
25	302190	Lower clearing roll shaft assembly, 1" dia., 32-31/32" long (#324 wide row)	1
26	302497	Lower clearing roll shaft assembly, 1" dia., 25-31/32" long (#325 narrow row)	1
27	02202 PM	Bearing retainer	4
28	013811	Carriage bolt, 5/16 x 3/4"	3
29	010231	Cotter pin, 3/16 x 1-1/2"	1
30	K 872	Washer, 1-1/32" I.D. x 1-3/4" O.D. x 1/16" thick	6
31	011976	Grease fitting, 1/4" N.P.T. straight	1
32	300248	Bearing, 1" bore	1
33	302165	First elevator end plate, R.H.	1
34	302168	Clearing roll shield, R.H.	1
35	013986	Machine screw, 5/16 x 1/2"	6
36	302193	Upper clearing roll shaft assembly, 1" dia., 25-49/64" long (#324 wide row)	1
37	302499	Upper clearing roll shaft assembly, 1" dia., 18-49/64" long (#325 narrow row)	1
38	K 3603	Roll pin, 5/16 x 3-1/4"	4
39	010359	Roll pin, 3/16 x 3-1/4"	4
40	302192	Clearing roll (#324 wide row)	2
41	301640	Clearing roll (#325 narrow row)	2
42	302167	Clearing roll shield, L.H.	1
43	013986	Machine screws, 5/16 x 1/2"	6
44	302162	First elevator end plate, L.H.	1
45	02254 PM	Chain slide bracket	1
46	013561	Machine bolt, 3/8 x 3/4"	2
47	300269	16 tooth spur gear, splined	2
48	K 3666	Roll pin, 1/4 x 1-5/8"	2
49	302194	14 tooth sprocket, splined	1
50	302195	Clearing roll drive chain, 1-1/4" extended pitch roller chain #2050 consisting of 49 pitches, 48 riveted type and 1 connector link (For repair of chain see Page 58)	1
51	302180	Pin, 3/8" dia. x 2-3/16" long, hardened	1
52	010214	Cotter pin, 1/8 x 3/4"	2

NO. 324 AND NO. 325 TWO ROW PICKERS

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REPAIR PARTS

SECONDARY BEATER ATTACHMENT



P312-1238-1

Key	Part Number	Part Description	Used
1	304620	Upper beater shaft, 1-1/16" O.D., 42-1/8" long (324 Wide Row) . . .	1
2	304423	Upper beater shaft, 1-1/16" O.D., 35-1/8" long (325 Narrow Row) . .	1
3	K 3037	Washer, 11/32" I.D., x 11/16" O.D., x 1/16"	4
4	304415	Support assembly	1
	013563	Machine bolt, 5/16 x 3/4"	2
	304419	Support brace	1
	013583	Machine bolt, 3/8 x 1"	1
	013586	Machine bolt, 3/8 x 1-1/4"	1
5	304418	Bearing plate, 4-1/2" x 4-1/2" x 1/8"	1
	013926	Carriage bolt, 5/16 x 1"	4
6	308190	Bearing with bronze bushings	3
7	010068	Bushing, bronze, 1-1 1/16" bore	6
8	1498 S	Washer, 1-3/32" I.D., x 2" O.D., x 1/8"	A.R.
9	011967	Grease fitting, 1/8" N.P.T. 67-1/2"	3
10	261 LS	Drilled rivet, 5/16 x 2"	2
11	302449	Sprocket, 9 tooth, 1" bore	2
12	010210	Cotter pin, 3/32 x 3/4"	2
13	300041	Chain slide	1
	013937	Carriage bolt, 3/8 x 2-3/4"	1
14	02143 PMA	Drive chain, 1-1/4" extended pitch, #2050 chain, 38 total pitches, 37 riveted type and 1 connecting link (for repair of chain see Page 58)	1
15	304421	Lower beater shaft, 1-1/16" O.D., 48" long (325 Narrow Row)	1
	304621	Lower beater shaft, 1-1/16" O.D., 55" long (324 Wide Row)	1
16	010231	Cotter pin, 3/16 x 1-1/2"	2
17	304420	Bearing bracket	2
	013988	Machine screw, 5/16 x 3/4"	4
18	304622	Beater blade, 8" wide	1
	013568	Machine bolt, 5/16 x 1-3/4"	2
19	304626	Anti-wrap shield, 1-3/8" O.D., 16-7/32" long (325 Narrow Row) . . .	1
	304623	Anti-wrap shield, 1-3/8" O.D., 19-3/4" long (324 Wide Row)	1

(A.R. = As Required)

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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.

#40 ROLLER CHAIN - 1/2" PITCH		#A 2040 ROLLER CHAIN- 1" EXTENDED PITCH	
K 4617A	10' Roll	K 4621A	10' Roll
010982	50' Roll	010990	50' Roll
010983	100' Roll	010991	100' Roll
K 2034	Roller Link	K 3007	Roller Link
K 2035	Offset Link	K 3008A	Connector Link
K 2036A	Connector Link	K 3009	Offset Link
#50 ROLLER CHAIN - 5/8" PITCH		#A 2050 ROLLER CHAIN - 1-1/4" EXTENDED PITCH	
K 4618A	10' Roll	K 4622A	10' Roll
010984	50' Roll	010992	50' Roll
010985	100' Roll	010993	100' Roll
K 2037	Roller Link	K 2588	Roller Link
K 2038	Offset Link	K 2589A	Connector Link
K 2039A	Connector Link	K 2570	Offset Link
#60 ROLLER CHAIN - 3/4" PITCH		#A 2060 ROLLER CHAIN - 1/2" EXTENDED PITCH	
K 4619A	10' Roll	K 4623A	10' Roll
010986	50' Roll	010994	50' Roll
010987	100' Roll	010995	100' Roll
K 2040	Roller Link	K 4858	Roller Link
K 2041	Offset Link	K 4859	Offset Link
K 2042A	Connector Link	K 3731A	Connector Link
#60H ROLLER CHAIN - HEAVY 3/4" PITCH		#CA550 ROLLER CHAIN - 1-5/8" PITCH	
011848	10' Roll	011793	10' Roll
K 4188	Offset Link	012213	Roller Link
K 4189	Roller Link	012214	Offset Link
K 4190A	Connector Link	012337	Attachment Link - Flat Conveyor
		012760	Connector Link
		715436	Attachment Link - Single Paddle Conveyor
		304591	Attachment Link - Gathering Chain
#80 ROLLER CHAIN - 1" PITCH		#6700 ROLLER CHAIN - 2-5/16" PITCH	
K 4620A	10' Roll	010963	Offset Link
010988	50' Roll	010966	Connector Link
010989	100' Roll	010967	Attachment Link
K 2043	Roller Link	010968	Roller Link
K 2044	Offset Link		
K 2045A	Connector Link		

#40 ROLLER CHAIN - 1/2" PITCH		#A2040 ROLLER CHAIN - 1" EXTENDED PITCH	
011866	10' Roll	011870	10' Roll
011874	Roller Link	011883	Roller Link
011875	Offset Link	011884	Offset Link
011876	Connector Link	011885	Connector Link
#50 ROLLER CHAIN - 5/8" PITCH		#A2050 ROLLER CHAIN - 1-1/4" EXTENDED PITCH	
011867	10' Roll	011871	10' Roll
011877	Roller Link	011872	50' Roll
011878	Offset Link	011886	Roller Link
011879	Connector Link	011887	Offset Link
		011888	Connector Link
#60 ROLLER CHAIN - 3/4" PITCH		#A2060 ROLLER CHAIN - 1-1/2" EXTENDED PITCH	
011868	10' Roll	011873	10' Roll
011869	50' Roll	011889	Roller Link
011880	Roller Link	011890	Offset Link
011881	Offset Link	011891	Connector Link

REPAIR FOR STEEL CHAIN AND PAINT

#25 Chain	10 ft. Roll	011205
#25 Chain	1 link	K 1800
#32 Chain	10 ft. Roll	011207
#32 Chain	1 link	K 1801
#42 Chain	10 ft. Roll	011208
#42 Chain	1 link	K 1678
#42 Chain	10 ft. Roll	15P189
#50 H Chain	10 ft. Roll	011847
#51 Chain	10 ft. Roll	15P190
#52 Chain	10 ft. Roll	011209
#52 Chain	1 link	K 1671
#55 Chain	10 ft. Roll	011210
#55 Chain	1 link	K 1672
#57 Chain	10 ft. Roll	011211
#57 Chain	1 link	K 1673
#62 Chain	10 ft. Roll	011212
#62 Chain	1 link	K 1674
#62 H Chain	10 ft. Roll	011214
#62 H Chain	1 link	K 1675
#62 W Chain	10 ft. Roll	011215
#62 W Chain	1 link	K 1676
#67 Chain	10 ft. Roll	011216
#67 Chain	1 link	K 1677
#67 H Chain	10 ft. Roll	011217
#67 H Chain	1 link	K 4036
#67 W Chain	10 ft. Roll	011218
#67 W Chain	1 link	K 1678
#67 X H Chain	10 ft. Roll	011219
#67 X H Chain	1 link	010770
#70 Chain	10 ft. Roll	011220
#70 Chain	1 link	K 1679
#72 Chain	10 ft. Roll	011221
#72 Chain	1 link	K 1803
#77 Chain	10 ft. Roll	011222
#77 Chain	1 link	K 1804

STEEL ATTACHMENTS

#42 AIR	K 1593	57K5	K 1589	67 AIR	K 1598
42 AIL	K 1594	57 Coupler	K 1899	67 AIL	K 1599
45 SD	15P210	62 AIR	15P364	67 ARS	K 1598
55 AIR	15P349	62 AIL	15P365	67 ALS	K 1599
55 AIL	15P350	62A13R	K 3855	67C5R	K 1600
55 AIRS	K 1586	62A13L	K 3856	67C5L	K 1601
55 AILS	K 1587	62 Coupler	K 3308	67 HAIR	K 4032
55 ARS	K 1638	62C1	K 2729	67 HAIL	K 4031
55 ALS	K 1639	62C11	010059	67 HARS	K 4032
55C1	K 1597	62CP	K 1642	67 HALS	K 4031
55A2R	K 4906	62G47R	15P220	67WC6R	K 1603
55A2L	K 4907	62G47L	15P221	67WC6L	K 1604
55G27R	K 1595	62G48R	15A12237	67WC23	K 4673
55G27L	K 1596	62G48L	15A12238	67 X HALS	010768
55SD	K 1592	62 HCP	K 1588	67 X HARS	010769
55 Coupler	K 3881	62K1	15P223	77 ARS	K 1640
57 ARS	K 1590	62 SH	K 1605	77 ALS	K 1641
57 ALS	K 1591	62 SHG	K 4670		

PAINTS

K 1277	Orange enamel, quart
K 1278	Orange enamel, gallon
Q14879	Orange enamel, 16 ounce spray can
K 1352	Green enamel, quart
K 1353	Green enamel, gallon
Q14880	Green enamel, 16 ounce spray can
Q14881	Bittersweet enamel, 16 ounce spray can
Q12477	Bittersweet enamel, quart
Q12478	Bittersweet enamel, gallon
Q12482	Buff enamel, 16 ounce spray can
Q12483	Buff enamel, quart
Q12484	Buff enamel, gallon

NO. 324 AND NO. 325 TWO ROW PICKERS

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NOTES

[illegible]

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