OPERATOR'S MANUAL
NO. P-212

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NEW IDEA
FARM EQUIPMENT

Nos. 324 & 325
TWO ROW PULL TYPE
GATHERING UNITS

JENSEN
FARM EQUIPMENT

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

COLDWATER, OHIO, U.S.A. 45828
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 40" 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!

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.

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NO. 324 AND NO. 325 TWO ROW PICKERS -3-
LUBRICATION GUIDE

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

Grease bearings No. 3, 6, 9, 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).
9. Short gathering chain gear boxes (2).
11. Wagon elevator throwout sprocket assembly (1). (With 326 & 327 Husking Units only.)
Grease bearings No. 7, 8, and 12 every 100 hours or annually, whichever comes first.
7. Snapping roll gear housing assemblies (4).
8. Power take-off bearings (5).
12. P.T.O. pivot bearing (1).

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.

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

<table>
<thead>
<tr>
<th>TYPE OF GREASE</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEXACO 958</td>
<td>TEXAS CO.</td>
</tr>
<tr>
<td>SOHIOTRAN #2</td>
<td>STANDARD OIL OF OHIO</td>
</tr>
<tr>
<td>SUNOCO 762 MP</td>
<td>SUN OIL CO.</td>
</tr>
</tbody>
</table>
OPERATING AND ADJUSTING (CONT'D)

Guide for Removing and Timing Snapping Rolls

Removing Necessary Parts from Upper End of Rolls

Figure 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 Gear Cover and Spur Gears

Figure 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.

Removing Entry Guides and Bearing Bolts

Figure 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.

Timing Snapping Rolls

Figure 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 "I". 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.
Replacing Trunnion at Upper End of Rolls

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

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 rivets in nose cones, make sure they are seated and peened thoroughly.
INSTALLATION OF OPTIONAL ATTACHMENTS (CONT'D)

Mud Scraper — Right Wheel Only

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.

Upper Beater Attachment (Optional on No. 324 Picker)

Drive Bracket

1. Remove nuts "I" from side plate bolts.
2. Attach bracket as shown onto upper two bolts "I". At "J" use two 5/8 x 3/4" machine screws. Tighten bolts.
3. Insert a 1/8" N.P.T. grease fitting at "K".

Fig. 44 - 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.

Beater Shaft and Flaps

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 1/16" O.D. x 1-3/8" O.D. x 1/16" washers under bolt heads as shown. Tighten all bolts. No lock washers required.

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

Fig. 46 - Install bearing plates "C" (both sides) using eight 5/16 x 1/2" machine screws (heads to inside). Tighten bolts.
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" 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.
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.

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