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MANUAL PREVIEW

New Idea

Operator's Manual

717

Uni-Combine

Operator's Manual

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NI-O-717 COMB

OPERATOR'S MANUAL

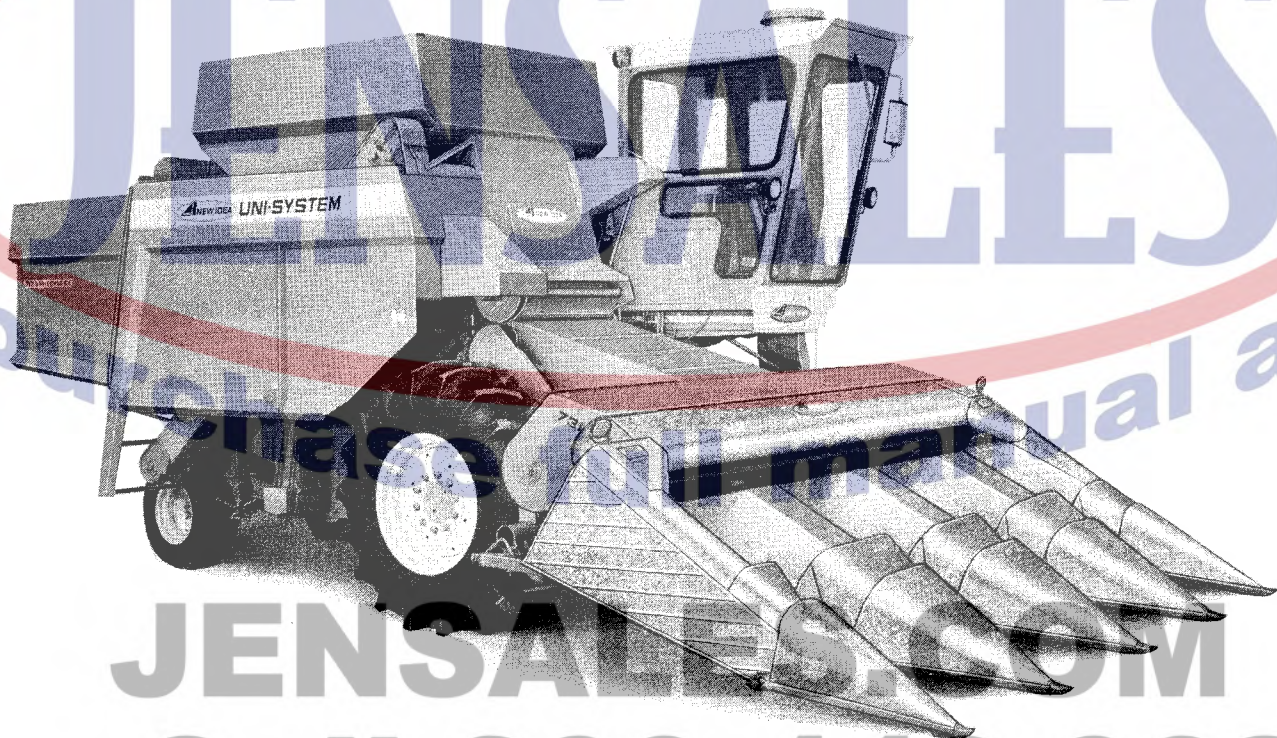
No. UC-106



No. 717

UNI-COMBINE

FOR NOS. 703, 704, 705 & 706
POWER UNITS



or Call 800-443-0625

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



COLDWATER, OHIO, U.S.A. 45828

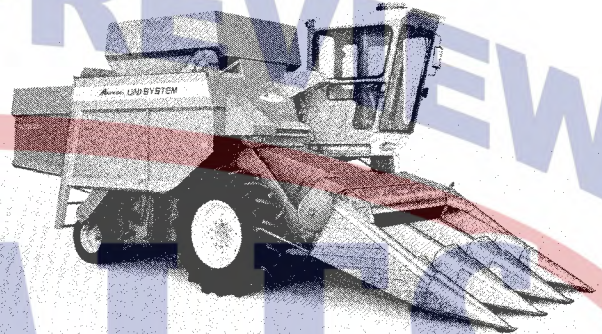
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Introduction



The No. 717 Uni-Combine is available with the No. 711 - 11 foot, No. 713 - 13 foot and No. 715 - 15 foot grain platforms.



All Uni-Corn heads can be mounted with the No. 717 combine except the No. 720 two row snapping roll head.

Specifications

Cylinder

- 22" dia. - 36" wide
- 6 removable rasp bars
- #50 - 2 drive chain
- Drive chain or variable

Concave

- Area - 814 sq. in.
- Transition grate area - 486 sq. in.
- Adjustment from cab
- Dump type stone trap

Separation

- Walker length - 120 in.
- Separation length to center of cylinder - 142 in.
- Open bottom walkers with return pan
- No. of walkers - 3 No. of steps - 3
- Separation area - 5100 sq. in.

Shoe

- Chaffer length - 57-1/8" - width 34-1/16"
- Sieve length - 47-3/8" - width 34-1/16"
- Total cleaning area - 3560 sq. in.

Fan

- Width of blades - 30-1/4"
- Blades - steel
- Drive - V-belt - variable

Grain Tank

- Capacity - 70 bu.
- "Optional" extensions - 25 bu.
- Unloading auger tube - 10-1/2 in. dia.
- Throw-out control in cab

Main Frame

- Torque tube
- Jacks standard

Shipping weight 4210 lbs. - chain drive
4488 lbs. - vari-drive

Options

Options for No. 717 Combine

• Perforated doors,	Page 34
• Filler bars, cylinder,	Page 34
• Filler bars, concave	Page 34
• Grain tank extension,	Page 35
• Auger cover, grain tank,	Page 35
• Straw spreader,	Page 36
• Chopper,	Page 35
• Perforated pan cover,	Page 34
• Bin stretcher,	Page 35

Options for No. 711, 713 & 715 Grain Platforms

• 5 or 6 bat reel,(711 & 713 only)	Page 31
• Reel bat wipers,(711 & 713 only)	Page 31
• Reel end guards,(711 & 713 only)	Page 31
• Hydraulic reel lift,	Pages 27 & 28
• Skid	Page 33
• Stone shoes	Page 33
• Auger flight extension,	Page 33
• Pickup guards,	Page 33
• Pickup reel,	Page 30
• Windrow pickup,	Page 32
• Skid,	Page 33
• Auger flight extension,	Page 33

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

Grain Platform

TROUBLE	CAUSE	CORRECTION
1. Outer ends of reel wrapping with tangled grain, vines, weeds, etc.	(a) Down or weedy conditions.	(a) Install reel end guards. See Fig. 70, Page 31.
2. Entire reel wrapping in tangled grain, vines, weeds, etc.	(a) Reel not located properly on reel arms (For and Aft). (b) Reel speed too fast. (c) Height of reel too low.	(a) Keep reel down and toward outer end of arms. See Fig. 2, Pg. 10 or Fig. 3, Pg. 11. (b) Reduce reel speed to allow material to fall onto platform. (c) Raise reel. Install reel arm support extensions. See Fig. 2, Page 10.
3. Reel carrying straw around.	(a) Reel height too low. (b) Reel speed too fast.	(a) Raise reel height to reduce the amount of straw being gathered. See Fig. 2, Page 9. Install reel arm support extensions. See Fig. 2, Page 10. (b) Slow down reel speed.
4. Shattering or losing grain at the reel.	(a) Reel speed too fast. (b) Ground speed too fast for condition of crop. (c) Auger speed too fast.	(a) Reduce reel speed. (b) Slow down ground speed. (c) Install slow down sprockets. See Figs. 7 & 8, Page 12.
5. Cut grain being lost over front of cutter bar in short material.	(a) Reel not close enough to cutter bar. (b) Ground speed too slow. (c) Cutting platform too high cutting crop too short. (d) Reel not turning fast enough due to drive belt slippage.	(a) Reposition reel so to be closer to cutter bar. Install additional bats on reel. See Fig. 73, Page 32. (b) Increase ground speed. (c) Lower cutting platform. (d) Remove any grease that may be found on belt or sheaves.
6. Cutter bar not cutting properly. Ragged or uneven cut. Excessive vibration.	(a) Worn, loose, bent, damaged or broken knife sections, guards, wear plates, knife, etc. (b) Knife gummed up. (c) Knife out of register. (d) Knife not operating at proper speed. (e) Ground speed too fast.	(a) Check cutter bar components replacing worn or broken parts. Tighten any loose bolts. See Figs. 5 & 6, Page 11 for cutter bar adjustments. (b) Clean with kerosene. (c) Adjust register of knife. See Figs. 5 & 6, Page 11. (d) Check R.P.M.'s on beater shaft. It should be 640 R.P.M.'s. (e) Slow down forward travel.
7. Not picking up material properly.	(a) Grain tangled and down.	(a) Install pickup guards. See Fig. 78, Page 33. Install pickup reel. See Fig. 74, Page 32.
8. Bunching or uneven feeding of material under feeder chain to cylinder.	(a) Build-up of material on cutter bar. (b) Fingers in platform auger not adjusted properly. (c) Ground speed too fast. (d) Platform auger not high enough. (e) Processing light material.	(a) Lower reel height. See Fig. 2, Page 10. (b) Readjust fingers. See Figs. 7 & 8, Page 12. (c) Reduce speed. (d) Raise auger. See Figs. 7 & 8, Page 12. (e) Install auger flight extensions. See Fig. 79, Page 33.

Threshing or Shelling

- | | | |
|--|--|--------------------------|
| 1. Overloading cylinder, slugging or back feeding. | (a) Too much material entering cylinder. | (a) Reduce ground speed. |
|--|--|--------------------------|

Reel Position and Tooth Adjustment For No. 715-15' Platform



Figure 3

Figs. 3 & 4 - The 15' platform is equipped with a hydraulic reel lift and is controlled from the cab. Normally the teeth on the reel should be positioned so they make contact with the material just below the lowest grain heads. The cylinders are shown in the center holes in the reel arms at "A" (both sides). Repositioning them to the front holes will allow the reel to be lowered more.

Forward and rearward reel adjustments are made by removing mounted bolts "B" (both sides) and repositioning the reel as desired. Normally the reel slats should be approximately 4 inches ahead of the knife.

The teeth on the reel should be adjusted so that when they deliver the material to the cutterbar they should



Figure 4

Fig. 4 - The reel speed is increased by threading wheel "C" in, and decreased by threading it out. After the desired speed is attained, lock oblong nut "D" firmly against wheel "C". Proper speed depends on crop conditions. Normally the reel speed should be 1-1/4 times faster than the normal operating ground speed.

be in a vertical position. To adjust the teeth, loosen clamp bolts "C" (both sides). Place a pipe wrench on the reel shaft next to the cam to turn it accordingly to change the pitch on the teeth.

Knife Register and Removal, Guard Alignment and Cutter Bar Maintenance



Figure 5

KNIFE REGISTER

Figs. 5 & 6 - To check knife register, position the pitman to the end of its stroke. The knife is in proper register when the sections pass an equal distance as indicated at "D" (Fig. 5) through adjacent guards at each end of the pitman stroke. If this distance is not the same, loosen jam nuts "E" (Fig. 6) on tie rod and adjust turnbuckle "F" until this is accomplished.

KNIFE REMOVAL

To remove the knife, remove bolts "J" and pull the knife from the cutter bar.

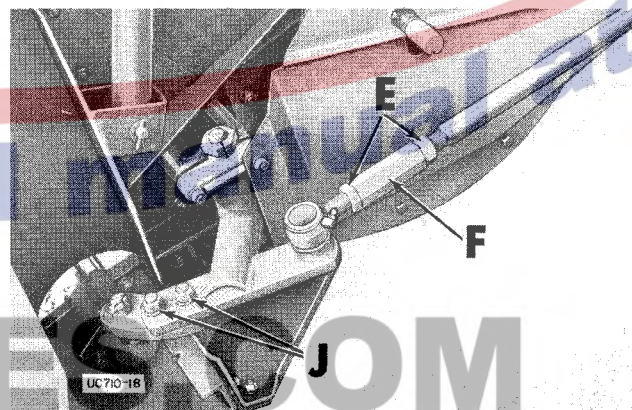


Figure 6

GUARD ALIGNMENT & CUTTER BAR MAINTENANCE

The guards should be aligned so the knife rests flush on the guards, 1/64" clearance is allowed between these two parts. This is accomplished by driving the guard up with a hammer. Retighten guard bolts after doing this. The knife hold down clips "G" (Fig. 5) must also hold the knife down on the guards. Drive them down as required. After making these adjustments, oil the knife and make sure it operates freely.

Check to see that all parts are tight: rivets, bolts, etc., replacing badly worn or damaged parts. Adjust wear plates "H" to compensate for wear on knife back.

OPERATING AND ADJUSTING (CONT'D)

Platform Auger and Fingers

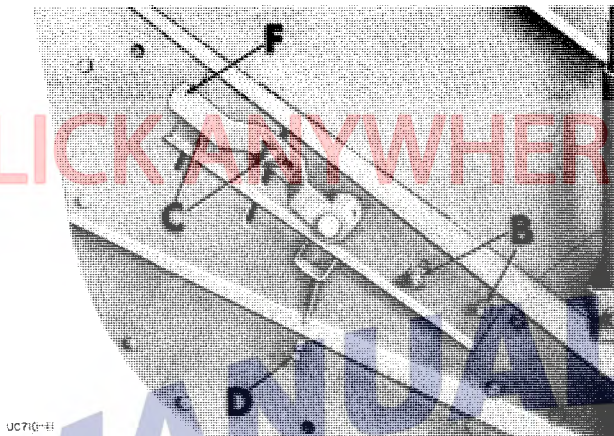


Figure 7

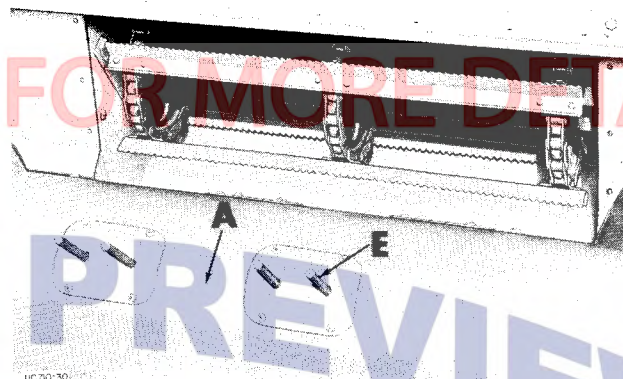


Figure 8

Figs. 7 & 8 - To adjust platform auger "A" (Fig. 8) loosen bolts "B" (Fig. 7 - both sides) and bolts "C". Loosen jam nuts on adjusting bolt "D" (Fig. 7 - both sides) and adjust bolt "D" to move the auger either up or down as desired. Move it up in heavy dense material and down in light material.

NOTE: Both sides must be adjusted evenly. Make sure that fingers "E" (Fig. 8) are adjusted properly.

To adjust auger fingers "E" (Fig. 8) loosen nut "C" (Fig. 7) and adjust lever "F" so the fingers are fully retracted at point of delivery to the feeder house con-

veyor chain. This will apply in normal or average conditions. In light material, we suggest the fingers protrude slightly at point of delivery. We also suggest they protrude slightly on a new machine or a machine that has been in storage. Leave them this way just long enough to polish wearing surfaces, then readjust so they retract fully.

NOTE: Should grain be lost due to shattering by the auger, the auger can be slowed down. A 33 tooth sprocket, Part No. 711057 and a 28 tooth sprocket, Part No. 711056, are available through our Repair Department. A speed-up sprocket is also available, it has 23 teeth, order Part No. 712734.

Reel Drive Belt and Auger Drive Chain

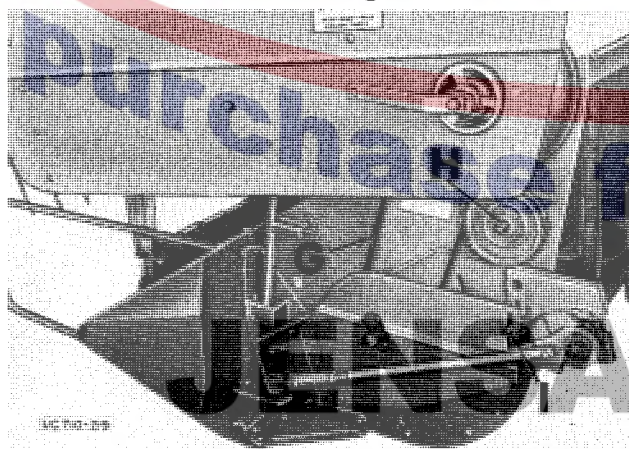


Figure 9

Fig. 9 - Reel drive belt "G" should be adjusted to the point where it will not slip on the sheaves. Loosen bolt "H" and adjust sheave accordingly.

To adjust the auger drive chain, loosen chain slide bolt "I" and adjust slide to the point where chain will not whip or jump teeth on sprockets. Tighten bolt.

Grain Platform Drive Belt and Feeder House Conveyor Chain

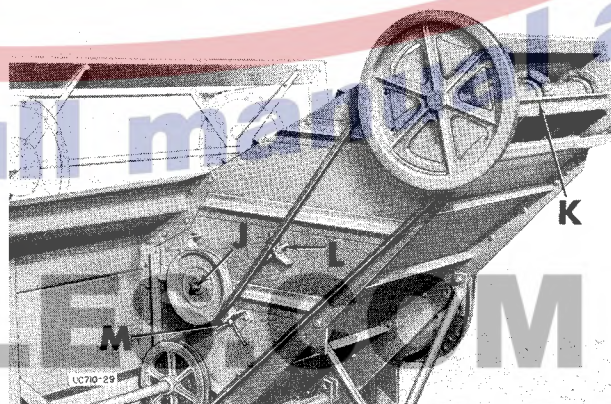


Figure 10

Fig.10-To adjust the grain platform drive belt, loosen bolt "J" in idler and adjust tightener bolt "M" to the point where the belt will not slip on the sheaves. Tighten bolt securely.

To adjust feeder house conveyor chain "K", adjust nuts on tightener bolt "L" (both sides) until the flights just clear the bottom of feeder house.