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New Idea

Operator's Manual

838 Uni-Husker

Operator's Manual

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OPERATOR'S MANUAL No. US-212

**AVCO
NEW IDEA**

No. 838 UNI-HUSKER & No. 841 FAS-TACH FEEDER HOUSE



US838-2

**AVCO
NEW IDEA**
COLDWATER, OHIO U.S.A. 45828

For the Dealer and Operator
Read this operator's manual • Save it for reference

CONTENTS & MESSAGE TO PURCHASER

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Message To Purchaser

KNOW YOUR EQUIPMENT

Study your Operator's Manual carefully. It has been specially designed to provide you with simple, concise procedures for properly maintaining and operating your New Idea equipment. Improvements are constantly being implemented so operation and maintenance may vary for each model. Always check your manual first. A thorough knowledge of your equipment will pay dividends in terms of service and reliability.

PROTECT YOUR INVESTMENT

You can gain added years of productive, efficient use from your New Idea equipment by following a program of proper maintenance and lubrication. Farm equipment must operate under the severest types of conditions, so follow the recommended maintenance schedule. It makes good business sense.

SAFETY IS A MUST!

Develop and follow good safety practices for yourself and those around you.

- Always operate farm machinery in a careful, safe manner.
- Never attempt to clean or adjust a machine while it is running.
- Always shut off P.T.O. and engine before leaving Power Unit seat for any reason. Remember, Safety is no accident. Your life depends on it.

AUTHORIZED SERVICE

For factory authorized service and parts, see your Avco New Idea dealer. His trained service staff is constantly being updated on the latest techniques and improvements. He can provide prompt delivery of quality New Idea parts and assist you with your specialized needs. Remember, customer satisfaction is of the utmost importance to him.

Record your Uni-Husker and Fas-Tach Feeder House lot and serial numbers in the boxes provided below. Your dealer needs this information in order to give you prompt, efficient service when you order parts.

NO. 838 HUSKER


COLDWATER, OHIO 45828, U.S.A.
LOT No. _____
MACHINE Serial No. _____
Enter Lot and Serial numbers here for future reference.

NO. 841 FAS-TACH FEEDER HOUSE

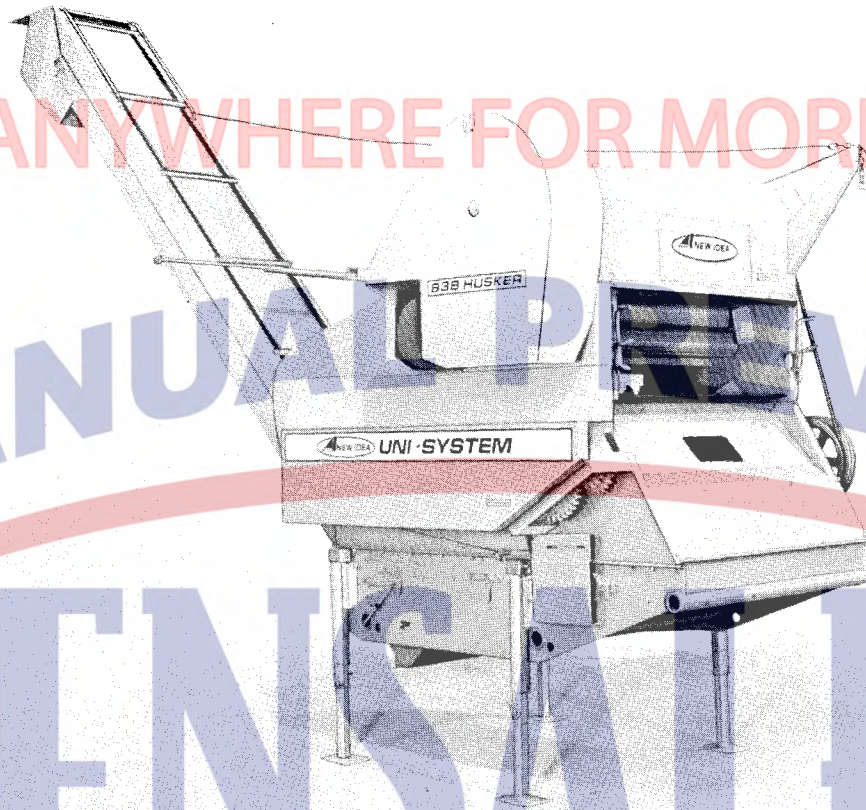

COLDWATER, OHIO 45828, U.S.A.
LOT No. _____
MACHINE Serial No. _____
Enter Lot and Serial numbers here for future reference.

The Lot and Serial numbers are found on the right hand side of the frame.

Determine right or left side of units by viewing them from the rear.

INTRODUCTION

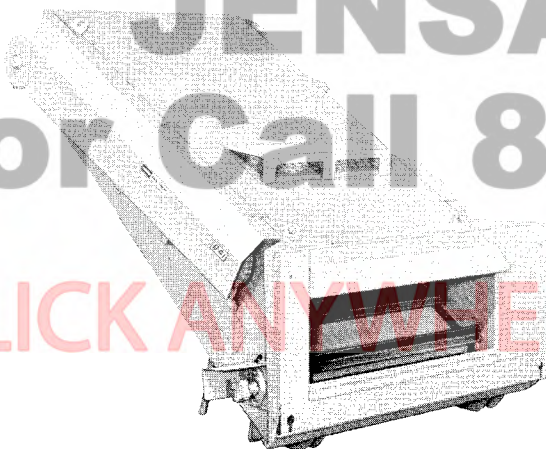
NO. 838 HUSKER



US838-1

The new No. 838 is the largest of the Uni Husking Beds. It can be mounted on all No. 703 thru No. 800 Series Power Units. The No. 838 Husker is a high capacity ear Corn Husking Unit that will handle three, four, and six row Corn Heads in seed and commercial corn. This is a wide body bed with room to provide clean husking in high yielding corn over a wide range of harvesting conditions.

NO. 841 "FAS-TACH" FEEDER HOUSE



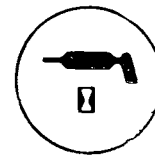
The Model 841 "Fas-Tach" Feeder House is a special overshot conveyor for use with the new 838 Husker. This is a high-capacity elevator-type conveyor that delivers the ear corn directly onto the husking rolls. The rubber flighted conveyor provides gentle handling action in seed and commercial corn.

The "Fas-Tach" system provides a method to quickly attach the full line of "Fas-Tach" Corn Heads to the new Husker. This unit retains the simple two-bolt method for locking the Corn Head and Feeder House together. New snap-action couplers on the Corn Head drive shaft are easily aligned to Feeder House drive hubs for fast, convenient drive connection.

TROUBLE SHOOTING

TROUBLE	CAUSE	CORRECTION
1. Husking Unit overloaded	(a) Too much corn on rolls.	(a) Operate Power Unit at slower ground speed. Check husking roll adjustment. See page 14, Fig. 21. Bend roll cover down on rolls. See roll cover "H" Page 13, Fig. 19.
	(b) Insufficient number of husking pegs in rolls.	(b) Add pegs.
	(c) Rolls wrapped with husks, etc. Rubber rolls worn.	(c) Adjust roll tension springs and spacers. See Page 14, Fig. 21. Replace rolls or rubber disc as required. See Page 14, Fig. 22.
	(d) Rolls not positioned properly.	(d) Check for missing or broken parts on tension rods at each end of rolls.
	(e) Finger wheels set too high off bed.	(e) Lower finger wheels. See Page 10, Fig. 10.
2. Excessive Shelling on Husking Rolls	(a) Too many husking pegs for easy shelling corn.	(a) Remove husking pegs as necessary.
3. Trash in Load	(a) Corn Head not adjusted properly.	(a) See Corn Head Operator's Manual for proper setting.
	(b) Husking Rolls not adjusted properly.	(b) Adjust husking roll tension springs and spacers. See Page 14, Fig. 21.
	(c) Worn Husking rolls.	(c) Replace rolls or rubber disc. See Page 14.
	(d) Insufficient number of husking pegs in rolls.	(d) Add pegs.
	(e) Improper suction fan damper setting.	(e) Close damper. See Page 11, Figs. 11 and 12.
4. Catching ears in husking rolls	(a) Husking roll spacers out of adjustment.	(a) Readjust spacer. See Page 14, Fig. 21.
5. Loss of corn thru suction fan.	(a) Improper damper setting.	(a) Open damper. See Page 11, Fig. 12.
6. Excessive slipping of Feeder House conveyor slip clutch	(a) Improper chain adjustment.	(a) Adjust chain tension. See Page 9, Fig. 6.
	(b) Husker overloaded causing conveyor to carry ears around.	(b) See No. 1 at top of page ("a" correction).
	(c) Starting unit with too slow engine speed.	(c) Engage clutch at higher engine R.P.M.

LUBRICATION GUIDE AND OPERATION



NO. 838 HUSKER

- Grease fittings - none.

Fig. 1 -

NO. 841 "FAS-TACH"

- Grease yearly or every 200 hours "A" - Belt idler assembly.

APPLY GREASE OCCASIONALLY

- All exposed gears.

OIL

- Brush oil on all chains liberally and often.



Do not attempt to service the above lubrication points until the header has been lowered onto the ground and the engine turned off. BE CAREFUL! "SAFETY IS OF YOUR CONCERN."



Figure 1

Operation

NOTE: See your Power Unit Operator's Manual for the recommended engine operating speed.

Electric Clutch For Feeder House And Corn Head - Conveyor Clutch

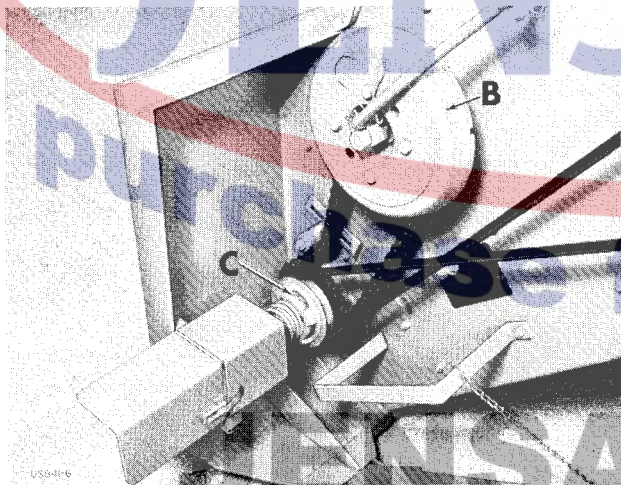


Figure 2

Husking Roll Clutch



Figure 3

Figs. 2 & 3 -

ELECTRIC DRIVE CLUTCH

Electric Clutch "B" drives the Feeder House and Header. A flick of the switch in the cab controls the engagement. Should the clutch ever malfunction, check for a tripped circuit breaker, defective switch (in cab console), or a poor connection in the wiring.

CONVEYOR CLUTCH

Clutch "C" protects the conveyor. It is preset at the factory and should never require adjustment. However, should it slip for no apparent reason,

remove the hub bolt and turn hub one complete turn, aligning flat part of hub with shaft. Then reinstall the bolt. If the clutch is ever removed, readjust it so the spring is compressed to 3-1/8" (79.4 mm).

HUSKING ROLL CLUTCH

Clutch "D" protects the husking rolls. It is preset at the factory and should never require adjustment. If it is ever removed, readjust it so the spring is compressed to measure 2-31/32" (75.4 mm) as indicated at "E". Tighten jam nuts securely.

ADJUSTMENTS

Conveyor Drive Belt And Feeder House Main Drive Chain

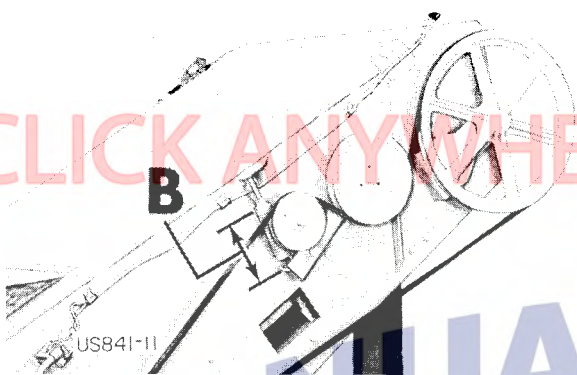


Figure 7

Figs. 7 & 8 -

The conveyor drive belt is controlled by spring tension. If the spring is ever removed, or the belt replaced, the spring tension bolt should be adjusted so the spring is extended to 7-1/8" (182 mm) as indicated at "B" between the spring hook and the end coil on the spring as indicated. The belt must be installed as shown. Note the twist in belt at lower end. See Figure 2, Page 8.

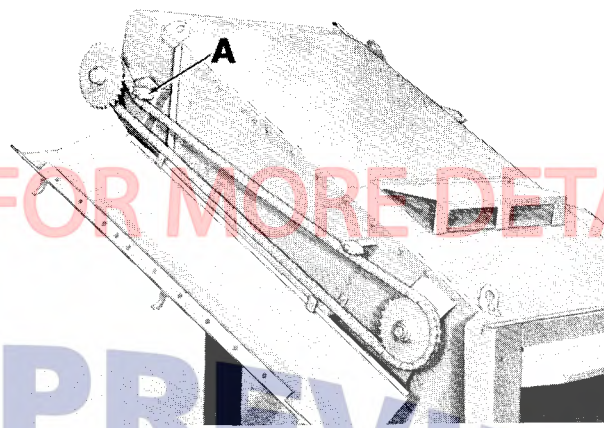


Figure 8

The main drive chain must be installed to the inside of the chain slides as shown. Keep the chain adjusted with chain slide "A" to the point where it will not whip or jump teeth on the sprockets. NOTE: KEEP ALL DRIVE CHAINS ON THE NO. 841 "FASTACH" FEEDER HOUSE AND THE NO. 838 HUSKER ADJUSTED AS DESCRIBED ABOVE.

Belt For Fans, Corn Saver Conveyor Chain - Finger Wheel And Ear Forwarder Position

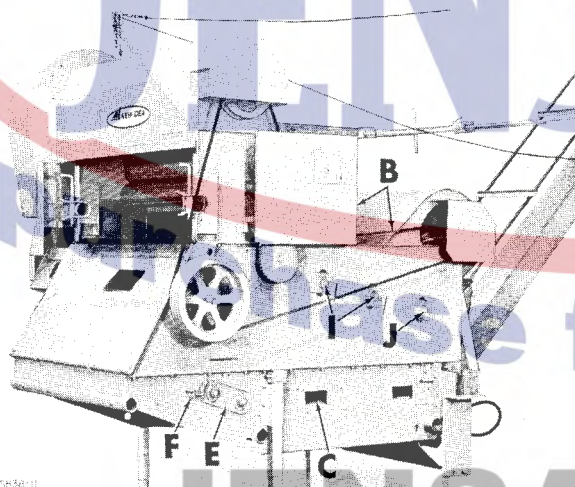


Figure 9

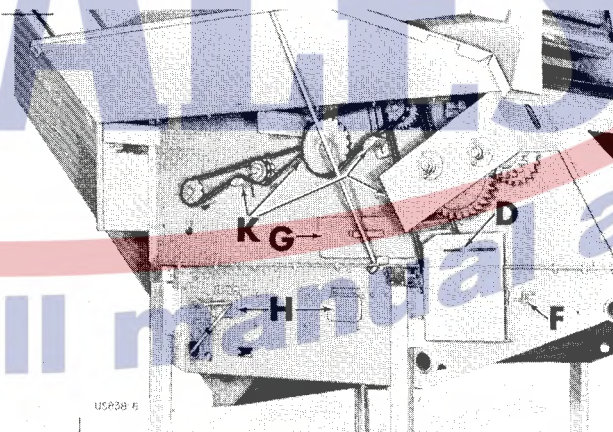


Figure 10

Figs. 9 & 10 -

BELT FOR FANS

Keep the fan belt "B" adjusted to the point where it drives and does not slip on the sheaves. Adjust idler found behind shield at "B" accordingly.

CORN SAVER CONVEYOR CHAIN

The corn saver conveyor chain MUST be adjusted so that when the flight is lifted at the center of the conveyor through hole at "C" it can be raised 1" (25 mm). To adjust it, the main drive chain "D" will have to be loosened first. Then loosen all bolts in bearing plates "E" (Both sides).

Adjust the tightener bolts "F" (Both sides) to the tightness described. Adjust both sides of corn saver chains equally. Tighten all bolts. Readjust drive chain "D". NOTE: Access to the top side of the corn saver is attained by removing inspection

cover "G". Covers "H" are provided to attain access to the conveyor.

FINGER WHEEL AND EAR FORWARDER POSITION

The lower two finger wheel shafts "I" and ear forwarder "J" should be adjusted in the center position as shown to handle most all average corn conditions. Adjust the finger wheels "I" downward a little at a time to increase finger wheel pressure in tough husking conditions, adjust them up to decrease pressure. The upper finger wheel shaft should remain in the high position at all times. Adjust the ear forwarder "J" to most effectively move the corn off the end of the rolls. To adjust these assemblies, the drive chains "K" will have to be loosened first, then loosen the mounting bolts and adjust them as desired. Retighten mounting bolts securely and readjust the drive chains.