

BU960

Forage Box



OPERATOR'S MANUAL

Form No.
902995

GEHL[®] COMPANY

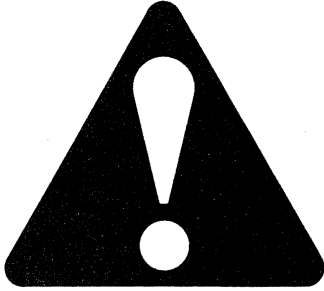
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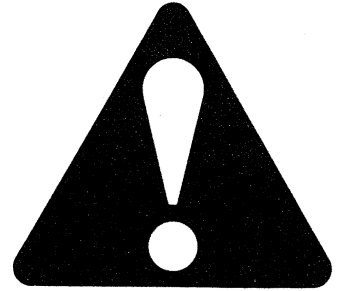
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SAFETY

(Continued)



DO NOT allow minors to operate or be near the machine unless properly supervised!

DO NOT allow personnel other than a qualified operator near the unit!

DO NOT attempt to hand-feed any crop or material into the area of the Unloading Mechanism!

DO NOT exceed a maximum towing speed of 20 mph (32 kmh) while transporting the Forage Box!

DO NOT wear loose or baggy clothing when operating this unit!

DO NOT hook a 1000 RPM tractor onto this unit!

DO NOT open any shields when the machine is running!

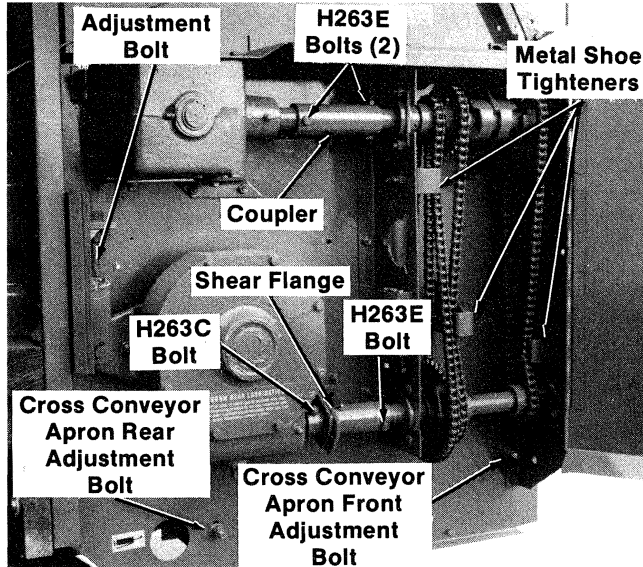


Fig. 7-7

Cross Conveyor Apron Chains (Figs. 7-7 & 7-8)

To adjust the tension on the Cross Conveyor Apron Chains, proceed as follows:

1. Loosen the front and rear Jam Nuts which are located on the right end of the Cross Conveyor.
2. Adjust the Chain tension by turning the Adjusting Nuts until correct Chain tension is obtained. Proper tension is obtained when an Apron Slat can be raised 2" (51 mm) above the Apron Slide at the midpoint between the right and left Conveyor Shafts.
3. After correct tension is obtained, lock the Adjusting Nut positions with the Jam Nuts.

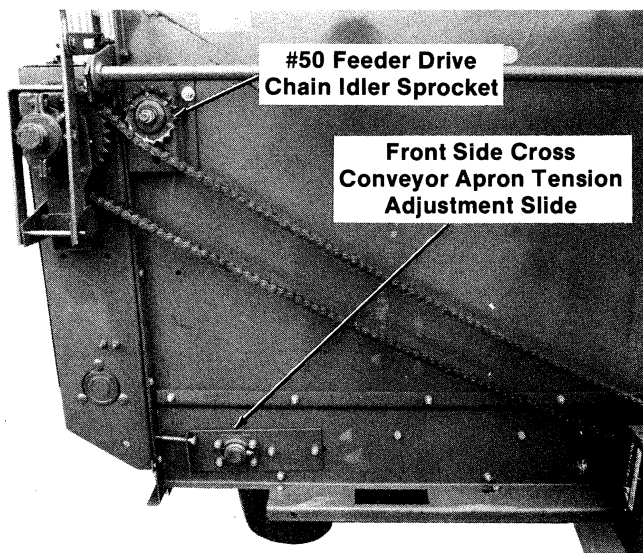


Fig. 7-8

NOTE: BE SURE to adjust both the front and the rear Chains evenly. On new units or after installing a new Cross Conveyor Apron, BE SURE to readjust the Chain tension initially and repeat the adjustment procedure after the second or third load (and as often as necessary thereafter) until the new Chain slack or give disappears.

Cross Conveyor Drive Chain (Figs. 7-8 & 7-9)

The following procedure **MUST** be used to adjust the #40 Chain which drives the Cross Conveyor:

1. Loosen the #50 Feeder Drive Chain by loosening the 1/2 x 2-1/2 Carriage Bolt on the Idler Sprocket.
2. Remove the Guard which covers the #40 Cross Conveyor Drive Chain by unfastening the (4) Finger Latches which secure the Guard.
3. Loosen (but do **NOT** remove) the (4) 3/8 x 1 fasteners in the slotted holes of the Safety Clutch assembly. This allows the Safety Clutch assembly to move freely.
4. Take up slack in the Cross Conveyor Drive Chain by moving the Safety Clutch assembly to the right. Then, after proper tension is obtained, retighten the (4) Clutch assembly mounting fasteners.
5. Make the final #40 Chain tension adjustment by repositioning and tightening the Wooden Block Idler.
6. Adjust tension on the #50 Feeder Drive Chain by lowering the Sprocket until the proper Chain tension is obtained and then, tightening the 1/2 x 2-1/2 Carriage Bolt.
7. Replace all Guards after tension is adjusted and before attempting to operate unit.

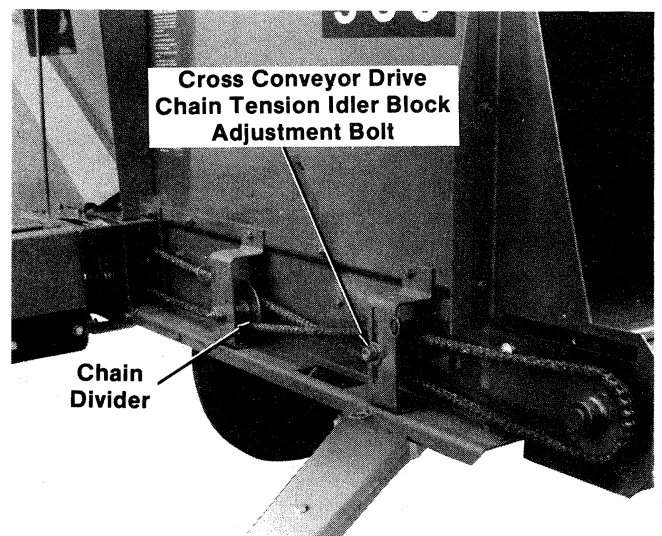


Fig. 7-9

CHAPTER 13

TROUBLESHOOTING

NOTE: This Troubleshooting guide presents problems, causes and remedies beyond the extent of loose, worn or missing parts and is developed in consideration of the machine being in otherwise good operating condition. Refer to Index for Chapter and topic page references.

MATERIAL RELATED PROBLEMS

PROBLEM	CAUSE	REMEDY
Material is bridging across Cross Conveyor during unloading.	Box is being filled too close to the Box Roof.	Reduce the amount in next load.
	Material is being cut long and/or it is wet.	Readjust harvester length-of-cut and allow material to dry-out more.
Box is light on the front end when it is being filled.	Too much material is being blown into back of Box first, for field conditions.	Blow material into front of Box before filling rear.
Material is falling-out over front of Unloading Unit.	Box is being filled too close to the Roof.	Reduce the size of the load.
	Material is being cut long and/or it is wet.	Readjust harvester length-of-cut and allow material to dry-out more.

MACHINE RELATED PROBLEMS

Excessive Shear Bolt failure on the Worm Gear Transmission.	Worm Transmission is out of alignment.	Align Transmission per detail in Adjustments chapter.
	Transmission is low on oil.	Replenish oil.
	Excessive Apron Chain load.	Reduce the size of the load.
	Starting Unloading Unit in "SWEEP" Apron speed.	Start unloading in "LO" speed to break the load loose first, then shift to faster speed, if desired.
Uneven speed or vibration of Beaters or Chains.	Severe angle on Telescoping PTO.	Realign and straighten PTO angle.
	Chains loose or sloppy.	Readjust Drive Chain tension.
Accidental shutdown of unit.	Safety Bar bouncing into the shutoff position.	Readjust the clamp position on the Safety Cable and check the Safety Clutch adjustment.
Difficulty encountered in shifting Apron speeds.	Rough surface on Apron Speed Sliding Clutch (inside right Guard Door).	File the burrs.
Difficulty encountered in shifting Beater Clutch.	Rust or foreign material on Clutch Shaft.	Remove the Sliding Cam or Beater Clutch. File-down Keyway if distorted. Then, clean and grease the Shaft after reassembly.
	Beater Clutch Shifter striking Shift Clutch Linkage Pin.	Check and readjust Clutch per detail in Adjustments chapter.

Right Hopper Side to the Stake and the Side Reinforcement with (3 each) 5/16 x 2-1/4 HHCS and HLN in the (3) upper holes. Install a 5/16 x 2-1/2 HHCS in the lowest hole and also attach the Door Stop Bracket to the other parts with a HLN.

For a Box with Steel Stakes, secure the Right Center Hopper Side and the Right Hopper Side to the front Stake with (3 each) 5/16 x 1 HHCS and HLN in the (3) upper holes. Attach the Door Stop Bracket to the Sides and the Stake with a 5/16 x 1-1/4 HHCS and HLN.

- C. Orient the 2nd Beater, as shown, and attach and secure one Outside Tine and the longer Beater Drive Shaft to the right end of the Beater with (2 each) 5/16 x 1 HHCS, LW, PW and HN. Position and fasten, in a similar fashion, the shorter Beater Drive Shaft and the other Outside Tine to the left end of the Beater.

NOTE: As shown in the end view detail, **BE SURE** that the 2nd Beater is correctly installed so that when the Beater rotates, the open edge of the seam is the trailing edge. **BE SURE** to line-up each Outside Tine, as shown, with the end Tine tilting away from the Beater end. Position the Outside Tine so that the square edge is the leading edge as shown.

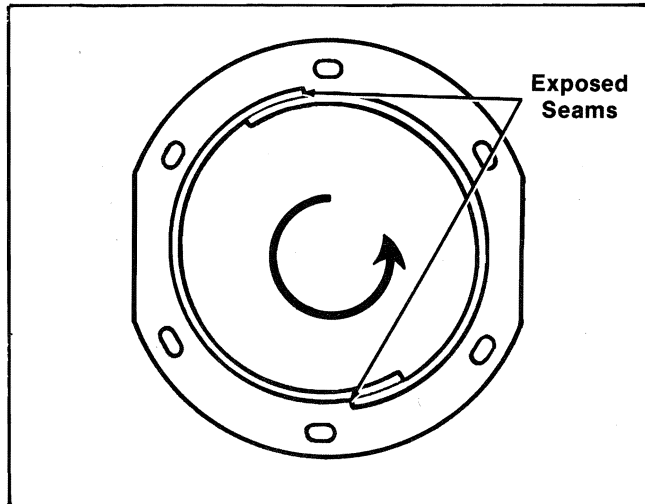


Fig. 14-8b: Beater Left End View

- D. Install (1 each) 5/16 x 3/4 HHCS, LW, PW and HLN in the remaining (8) holes to secure both Shafts.
- E. Raise the 2nd Beater assembly into position and slide the Right Shaft through the Bearing on the Right Center Hopper Side.
- F. Slide the Left Center Hopper Side Bearing onto the Left Shaft and raise that end of the assembly into position and secure the Left Center Hopper Side in the same manner as the Right Center

Hopper Side. After both Center Hopper Sides are secure, tightly secure both Bearing Retainer assemblies, which were installed in step A.

- G. Place a 1-17/64 ID x 1-7/8 OD Washer next to the Right Beater Bearing. Insert a 5/16 x 1 Woodruff Key into the Shaft Keyway. Position a 24 Tooth Sprocket so that the extended Hub of the Sprocket is positioned toward the Beater Bearing as shown.
- H. Place a 1-17/64 ID x 1-7/8 OD Washer next to the Left Beater Bearing and slide a Collar (074104) over the end of the Shaft and secure the Collar with a 5/16 x 1-3/4 Spiral Pin.
- J. Center the Beater between the Hopper Sides and align the 2nd Beater Drive Sprocket with the Sprocket of the Beater Drive Transmission before securing the Beater Sprocket Set Screws.
- K. Insert a 1/2 x 3-1/2 CB from inside the Hopper Side through the slot in the Left Hopper Side, the hole in the Slot Cover and the hole in the Wooden Chain Tightener Block.

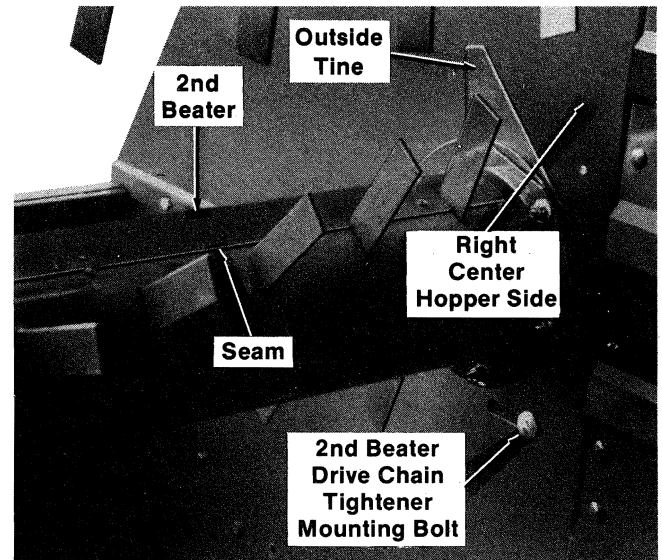


Fig. 14-8c

NOTE: **BE SURE** the Slot Cover is properly oriented, as shown, when it is installed.

- L. Wrap the #2050 2nd Beater Drive Chain around the Sprocket, over the Chain tightener Block and around the Transmission Sprocket. Then, couple the ends together.
- M. Install the Remote Fitting connection onto the Bearing and anchor the Remote Fitting Bracket to the appropriate hole in the Center Hopper Side using a 5/16 x 1 HHCS, LW and HN. Make sure that the Grease Line does **NOT** contact the Sprocket or Chain.

- Q. Attach and loosely secure the (4) Latches to the Rear Guard with (2 each) #1224 x 1/2 RHMS, #12 LW and #1224 HN. Adjust the Latch tension by repositioning the assembly with the slotted mounting holes in the Latch or the Hinges. Tighten all fasteners after the proper tension is obtained.

NOTE: BE SURE that the Covers, which have the Red Reflector Strips, are attached to the outer access hole positions.



Fig. 14-13: Wood Box End Assembled

Step 13: Box End Attachment
(Fig. 14-13 & See Fig. 14-2c)

NOTE: This procedure applies to all KD and some PB Box assemblies.

Wood Box Ends can be installed on either a Box with wood Sides and wood Stakes or on a Box with wood Sides and steel Stakes. A steel Box End is only installed on a Box with steel Sides and steel Stakes. Depending on whether the Box has wood Sides and wood Stakes, wood Sides and steel Stakes, or steel Sides and steel Stakes, refer to the appropriate following procedure to attach the Box End.

Wood Sides & Wood Stakes

NOTE: This procedure applies to both 4-ft and 6-ft Sides.

- A. Assemble the Box End to the rear of the Forage Box and align the holes in the Box End with the holes in the Rear Stakes. On the right side, install (2 each) 5/16 x 3-3/4 HHCS thru a PW, the Right Support, the Guard Support, the Box End, the right Rear Stake and a L-PW. Loosely secure the HHCS with a HLN. Repeat this assembly sequence for the left side of the Box End.

- B. Install either 8 each (for a 4-ft Box End) or 12 each (for a 6-ft Box End) 5/16 x 3-3/4 HHCS thru a L-PW, the Box End, the Rear Stakes and a L-PW. Loosely secure the HHCS with a HLN.
- C. After all HHCS are installed, tighten all the related HLN's.

Wood Sides & Steel Stakes

NOTE: This procedure applies only to 6-ft Sides.

- D. Assemble the Box End to the rear of the Forage Box and align the holes in the Box End with the holes in the Rear Stakes. Install a 5/16 x 2-1/4 HHCS and HLN in all (16) mounting holes. Use PW's against the slots of the Side Panel Supports and L-PW's against all other wood members. After all HHCS have been installed, tighten all related HLN's.

Steel Sides & Steel Stakes

- E. Assemble the Box End to the rear of the Forage Box and align the holes in the Box End with the holes in the Rear Stakes. Loosely secure the Box End to each Rear Stake with (7 each side) 5/16 x 3/4 HHCS and HLN. After all HHCS have been installed, tighten all related HLN's.

Step 14: Safety Cable Routing & Attachment
(Fig. 14-14 & See Fig. 14-10a)

NOTE: This procedure applies to all KD and some PB Box assemblies.

When the Forage Box Unloading Unit is delivered, the Safety Cable is secured to the Left Hopper Side. The Cable length is sufficient for attachment onto an 18-ft Box. **BE SURE** to install the Cable completely around the unit. Route the Cable as follows:

- A. Uncoil the Cable and route the loose (unattached) end through the appropriate hole in each Stake of the left Side.
- B. The Cable, after passing through the Rear Stake, **MUST** be routed through the (2) Cable Angles which are attached to the side of the 4 x 6 Rear Cross Sill.
- C. The Cable is routed through the right Side Stakes and up to the Right Lever of the Safety Bar.
- D. Use the Cable Clamp provided to secure the Cable to the Right Lever.

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