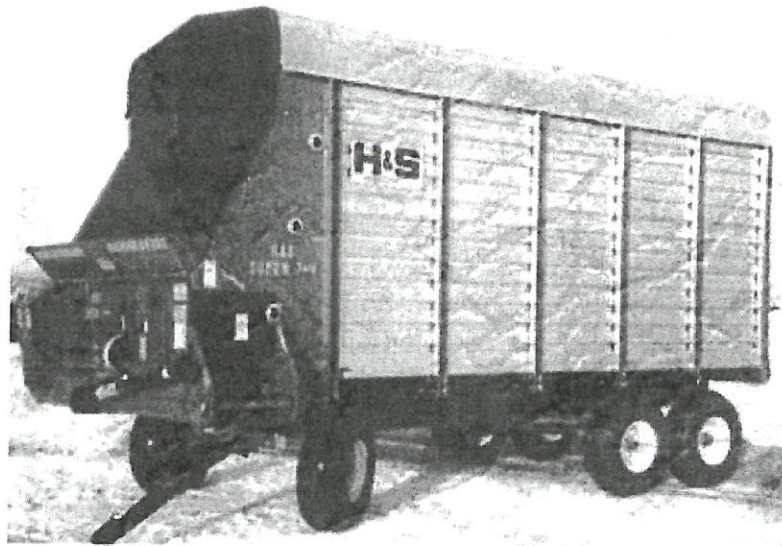


H & S

Self-Unloading Forage Boxes

SUPER 7 + 4



OPERATOR'S MANUAL and PARTS LIST

4-20-94

Manufactured By

H & S MANUFACTURING CO., INC.

Box 768 • Telephone (715) 387-3414 FAX (715) 384-5463

MARSHFIELD, WISCONSIN 54449

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WARRANTY CERTIFICATE

Mr. Owner: Before Operating—Read and Understand Operating and Safety Instructions

H & S Manufacturing Co., Inc. manufacturer of the H & S Super 7 + 4, H & S 7 + 4 Twin Auger, H & S "501", H & S "XL" self unloading forage boxes, H & S manure spreaders, H & S tedders and Haymachine, and Bi-Fold Rake—truly believes you have made a wise choice and a sound and lasting investment. Many years of development have made available these quality machines to assure you the performance and reliability you need. **We ask you to read the following agreement and warranty as this unit is subject to this warranty and agreement and no other.**

THE H & S WARRANTY

H & S Manufacturing Co., Inc. as manufacturer of H & S Super 7 + 4, H & S 7 + 4 Twin Auger, H & S "501", H & S S-XL self unloading forage boxes, H & S manure spreaders, H & S tedders and Haymachine, and Bi-Fold Rake warrants this unit to be free from breakage or malfunctions due to defects in material and or workmanship for a period of one year from date of original sale on labor, two years from date of original sale on parts, and ten years (except model 125 spreader) from date of original sale on wood rot. Should such breakage or malfunction occur within warranty period the liability of H & S, its employees, agents, authorized distributors, and dealers (Hereinafter collectively referred to as sellers) is hereby expressly limited to repairing or, at its option, replacing free of charge at its factory, any such defective part or parts. Sellers liability is further expressly limited with respect to components manufactured by others, such as universal joints, bearings, detachable link and roller chains, tires, belts or trade accessories, to the extent of such warranties as are extended thereon to sellers by these manufacturers.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR APPLICABLE FOR ANY PARTICULAR PURPOSE, AND THE OBLIGATION AND LIABILITY OF SELLERS UNDER THIS WARRANTY, DOES NOT EXTEND TO LOSS OF CROPS, LOSS BECAUSE OF DELAY IN HARVESTING OR ANY EXPENSE OR LOSS INCURRED FOR LABOR, SUPPLIES, SUBSTITUTE MACHINERY OR RENTAL MACHINERY, TRANSPORTATION OR OTHER CHARGES, OR ANY OTHER INDIRECT OR CONSEQUENTIAL LOSS.

H & S Mfg. Co., Inc. reserves the right to make changes in design and components or material or to utilize available materials which it deems satisfactory, in order to improve its products. Also H & S reserves the right to make changes in the construction or design of any parts without any incurring obligations to install these improvements or changes on previously delivered units.

This warranty shall be void if any part or parts not manufactured or supplied by H & S are used either in servicing or maintaining the unit, and sellers obligation to repair or replace parts are then voided. This warranty shall be void if in the judgement of H & S, repairs are made in such a manner to affect this unit in a materially adverse manner or if this unit is operated unsafely or while in a state of disrepair.

The terms and conditions of this warranty cannot be altered, modified, or waived by any seller without the expressed, written consent of an officer of H & S Mfg. Co., Inc.

NOTICE

H & S Manufacturing Co., Inc. disclaims any liability for the operation of the equipment with the safety guards removed or modified. The nature of this product requires that it be operated in a safe way only, and in good repair by qualified persons. Each purchaser, through the process of purchasing this equipment, agrees with H & S Manufacturing Co., Inc. to operate it in a safe manner and in accordance with applicable state and federal laws and agrees to indemnify and hold harmless H & S Manufacturing Co., Inc. from any loss to any person or persons caused by purchaser's failure to do so. Each purchaser further agrees to bring to the attention this notice to each subsequent purchaser, and to obtain his agreement thereto as a condition of resale or transfer.

IMPORTANT

TO MAKE THIS WARRANTY EFFECTIVE, THE OWNERS WARRANTY REGISTRATION FURNISHED WITH EACH MACHINE MUST BE FILLED OUT AND SENT TO H & S MANUFACTURING CO., INC. IF PURCHASER DOES NOT ACCEPT THIS WARRANTY AND AGREEMENT, HE MAY RESCIND THE SALE BY NOTIFYING ANY OF THE SELLERS IN WRITING OF THAT FACT WITHIN TEN DAYS FROM DATE OF SALE AND/OR PRIOR TO ANY USE OF THE EQUIPMENT WITHIN THIS 10 DAYS.

WARRANTY REGISTRATION

Date of Purchase _____

Purchaser _____ Address _____

City _____ State _____ Zip _____

Product _____ Model # _____ Serial # _____

Dealer _____ Address _____

City _____ State _____ Zip _____

Did you receive an owner's manual? Yes No

Did you receive the notice set forth in the attached warranty? Yes No

Was pre-delivery check list completed and received from the dealer? Yes No

Signature of original buyer

**FILL OUT AND MAIL
IMMEDIATELY TO MAKE
WARRANTY EFFECTIVE**



IMPORTANT!

Tear on dotted line, provide the information requested on the card. The H & S Warranty is valid **"only"** after this card is received and recorded at H & S Mfg. Co. Mail at once. No postage is required in the U.S.A.

This Is Your Warranty Card
Please Fill Out
And Mail Immediately

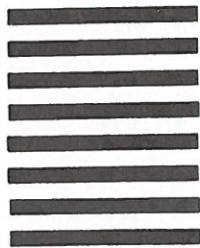


NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS MAIL Permit No. 195 Marshfield, WI 54449

POSTAGE WILL BE PAID BY ADDRESSEE

H & S Manufacturing Co., Inc.
PO Box 768
Marshfield WI 54449-9963



**H & S
DEALER PRE-DELIVERY CHECK LIST**

After the Self-Unloading Box has been completely set-up, check to be certain it is in correct running order before delivering to the customer. The following is a list of points to inspect. Check off each item as you have made the proper adjustments and found the item operating satisfactorily.

- PTO Shields turn freely.
- All Shields and Guards are in place and fastened.
- All grease fittings have been lubricated and gear box filled to proper level — See lubrication guide in this manual.
- All mechanisms are operating trouble free.
- All Roller Chains are at proper tension.
- Apron Chains are adjusted properly.
- All bolts and fasteners are tight.
- 1 extra Shear Bolt is provided.

(Dealer's Name)

(Signature of Pre-Delivery Inspector)

Date of Inspection

DEALER DELIVERY CHECK LIST

This check list that follows is an important reminder of valuable information that should be passed on to the customer at the time this Self-Unloading Forage Box is delivered.

Check off each item as you explain it to the customer.

This pre-delivery check list, when properly filled out and signed assures the customer that the pre-delivery service was satisfactorily performed.

- Explain to the customer that pre-delivery inspection was made.
- Explain to the customer all the safety precautions they must exercise when operating this unit.
- Explain recommended loads for different types of materials.
- Explain to customer that regular lubrication is required for proper operation and long life of machine. Show customer the lubrication section of Owner's Manual.
- Give customer Owner's Manual and make sure he reads and understands all operating and service instructions.
- Have customer sign a completed "Warranty Registration," and mail it promptly.

Date Delivered _____ Dealer's Name _____

By _____

Signature of Original Buyer

Note: Warranty is not valid until warranty card is completed and returned to H & S Mfg. Co., Inc.

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- Give customer Owner's Manual and make sure he reads and understands all operating and service instructions.
- Have customer sign a completed "Warranty Registration," and mail it promptly.

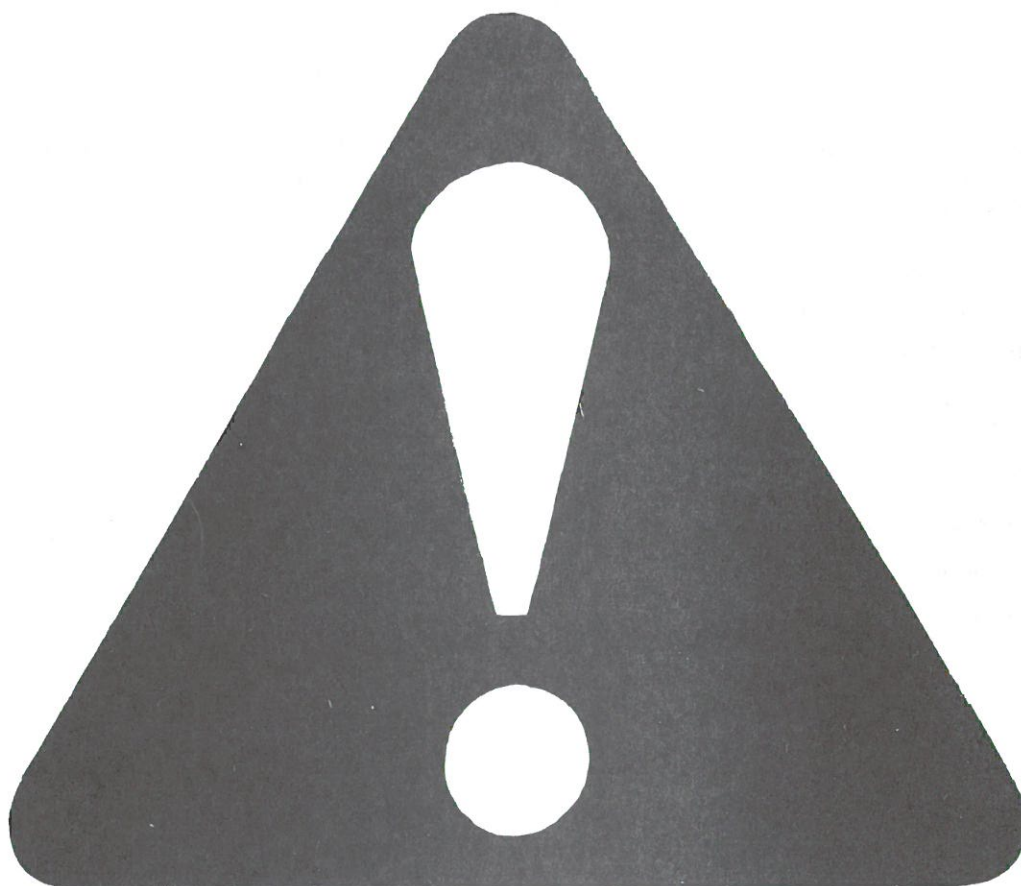
Date Delivered _____ Dealer's Name _____

By _____

Signature of Original Buyer

Note: Pages 3 and 4 have been removed

Note: Warranty is not valid until warranty card is completed and returned to H & S Mfg. Co., Inc.



**BE
ALERT!**

**YOUR SAFETY
IS INVOLVED.**

THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER YOUR PERSONAL SAFETY IS INVOLVED. TAKE TIME TO BE CAREFUL. REMEMBER: THE CAREFUL OPERATOR IS THE BEST OPERATOR. MOST ACCIDENTS ARE CAUSED BY HUMAN ERROR. CERTAIN PRECAUTIONS MUST BE OBSERVED TO PREVENT THE POSSIBILITY OF INJURY OR DAMAGE.

TRACTORS

This operator's manual uses the term "Tractor" when identifying the power source for the forage box and the blower. However, the same safety and operating practices apply to other power sources such as electric or hydraulic motors

H & S MANUFACTURING CO. INC.

H & S SUPER 7 + 4 FORAGE BOX



WARNING

BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT, READ AND STUDY THE FOLLOWING INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THIS EQUIPMENT, WHETHER FAMILY MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.

KNOW HOW TO STOP UNLOADING MECHANISM BEFORE STARTING IT

If the machine becomes clogged, disengage the power take-off. Stop the tractor engine and allow all mechanisms to stop before cleaning or working on the machine.

DO NOT attempt to perform maintenance or repair with tractor running and PTO hooked up.

DO NOT step up on machine at any time.

NEVER manually feed material into the beaters.

DO NOT allow minors to operate or be near the machine.

DO NOT ALLOW PERSONNEL OTHER THAN THE QUALIFIED OPERATOR NEAR THE MACHINE.

Before starting tractor, be sure PTO shields turn freely and PTO is securely locked to tractor.

DO NOT clean, adjust, reset the emergency stop clutch, or lubricate the machine when any part is in operation.

Check frequently to be assured that the emergency stop mechanism is in proper operating condition.

Keep hands, feet and clothing away from beaters when they are revolving.

Loose or floppy clothing should not be worn by the operator.

Be sure the machine is clear of people, tools, and other objects before engaging PTO.

DO NOT step over power take off shaft. Stay clear of PTO at all times.

NEVER start forage box until all guards and safety shields are secured in place.

NEVER put hand in cross conveyor outlet openings while tractor is running.

CAUTION — Beware of Low electrical wires.

NEVER hook up 1000 RPM tractor to the forage box.

H & S Mfg. Co. always takes the operator and his safety into consideration and guards exposed moving parts for his protection. However, some areas cannot be guarded or shielded in order to assure proper operation. In addition, the operator's manual and decals on the machine itself warn you of further danger and should be read and observed closely.

Study the Above Safety Rules

ATTENTION - BE ALERT - YOUR SAFETY IS INVOLVED

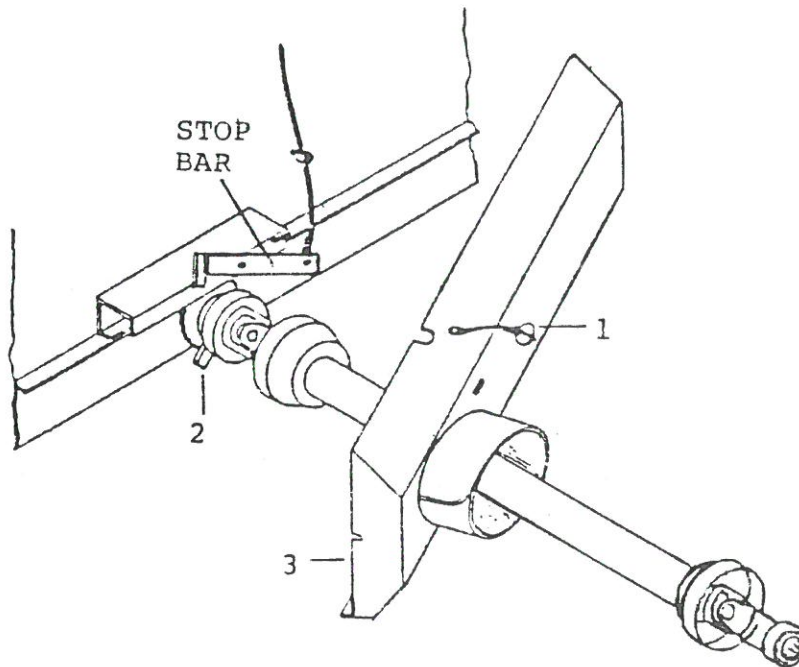


WARNING

**NEVER OPERATE THIS UNIT UNLESS EMERGENCY STOP
FUNCTIONS PROPERLY**

MAINTENANCE

1. Pushing the emergency stop bar rearward or pulling the trip cables will activate the stop to off position.
2. Trip emergency stop occasionally, and when starting the unit after periods of storage to insure proper function.
3. Keep excessive slack out of trip cable.
4. Oil stop bar periodically to assure that clutch mechanism will trip.

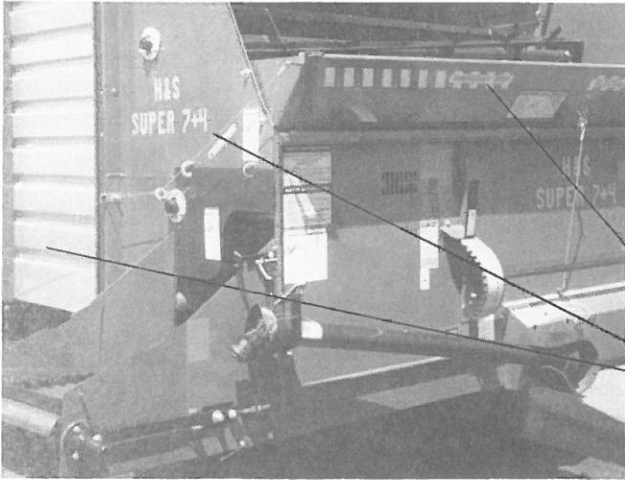


RESETTING THE EMERGENCY STOP

1. Turn off PTO shaft at tractor - Stop Tractor - Turn power source or tractor off - Look at Diagram.
2. Remove latch pin (1) from shield.
3. Pull shield (3) forward.
4. Push emergency trip latch (2) counter clockwise to re-set.
5. Push stop bar down.
6. Replace shield (3) and latch in place.
7. Start engine.
8. Engage PTO to start unloading.

NOTE: Refer to page 19 when optional hydraulic power unit is used.

EMERGENCY STOP

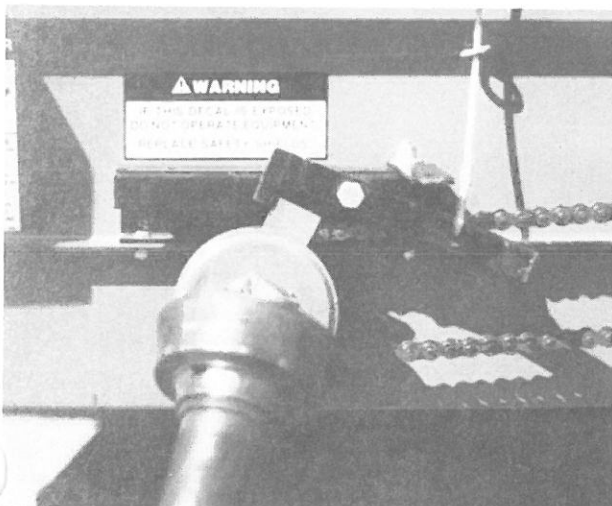


In case of an emergency, pushing emergency stop panel or pulling the safety cable will stop cross conveyor, beaters, and main aprons. PTO will continue to rotate. Trip emergency stop occasionally to insure proper function.

- A. Emergency Stop Panel
- B. Emergency Stop Cable



WARNING: Some photographs used in the following pages show guards or shields removed for clarification. NEVER operate machine until these guards or shields are in their proper operating position.



Emergency Stop Clutch Tripped



Emergency Stop Clutch Re-set

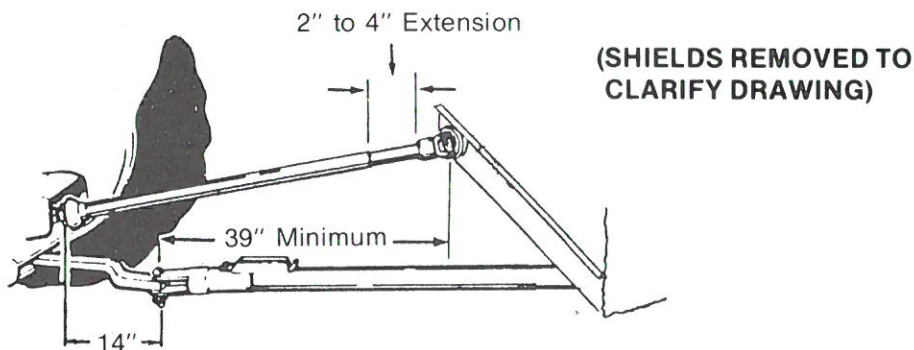
BEFORE OPERATION

Check entire unit carefully before first operation. Tighten bolts, set screws, and chains which might have come loose in handling. Lubricate as explained in the lubrication guide. Run entire feeding mechanism and unloading mechanism for several minutes. This will serve as a break-in and as a check that all parts are assembled and lubricated properly. Successful operation will be achieved by periodic adjustments and experience of the operator. Make sure to read and understand the main feeder apron adjustments.



Hitch To PTO Length - Tractor Drive Only

Maintain correct distance between tractor drawbar hitch and tractor PTO and tractor drawbar hitch and the universal joint at front of unit. This is necessary to prevent overextending the universal joint shaft.



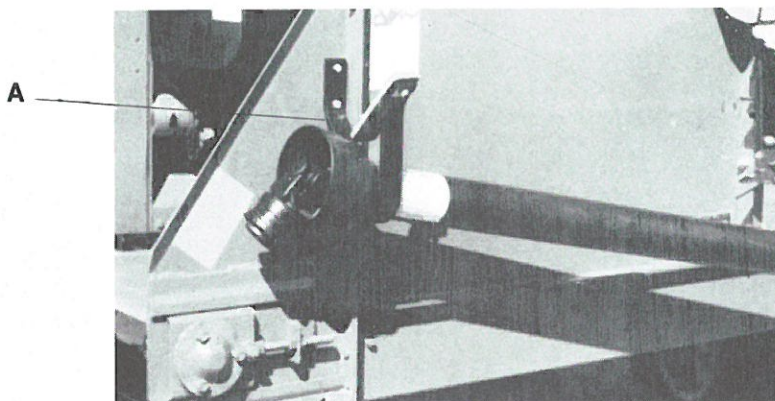
IMPORTANT! DO NOT operate unless 2" minimum extension is maintained.

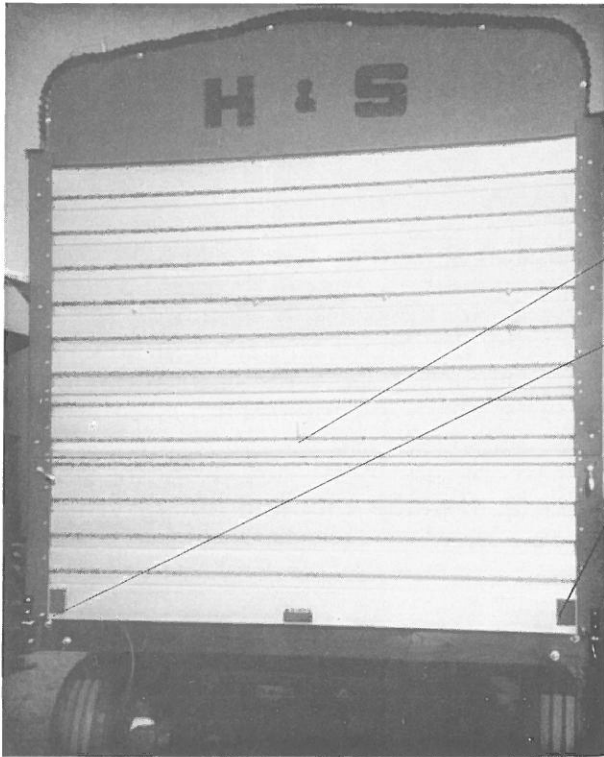
The tractor drawbar should be adjusted in relation to the tractor PTO shaft as follows:

1. Hitch point of drawbar 14 inches behind tractor PTO shaft.
2. Hitch point of drawbar at least 6 inches, but not more than 15 inches below PTO shaft.
3. Hitch point of drawbar at least 13 inches, but not more than 17 inches above ground level.
4. When unloading, keep hitch point of drawbar - PTO shaft - in a straight line to forage box - having PTO at an angle will result in a pounding noise and damage to U joints and the safety clutch.

BEFORE STARTING TRACTOR, BE SURE PTO SHIELDS TURN FREELY AND PTO IS LOCKED SECURELY TO TRACTOR.

The Power Take Off Shaft from tractor to box should not be connected for road travel or field operation. Damage may result to the safety clutch and PTO Shaft. A convenient hanger is provided to hold PTO Shaft during the time it is not being used to unload. (See item A)





Mounting Socket For SMV Emblem (A)

Red Reflective Tape (B)

WHEN TRANSPORTING ON THE HIGHWAY OR ROADS, PLACE SMV SIGN IN SOCKET PROVIDED AND REGULARLY CLEAN THE REFLECTIVE TAPE AT THE REAR OF THE FORAGE BOX.

H & S MFG. Co. does not offer a rear light package. If one is needed or desired contact your local dealer.

NOTE. Obey all state and local laws, concerning towed equipment, on public roads.



DISENGAGE PTO AND SHUT OFF TRACTOR BEFORE ADJUSTING FORAGE BOX

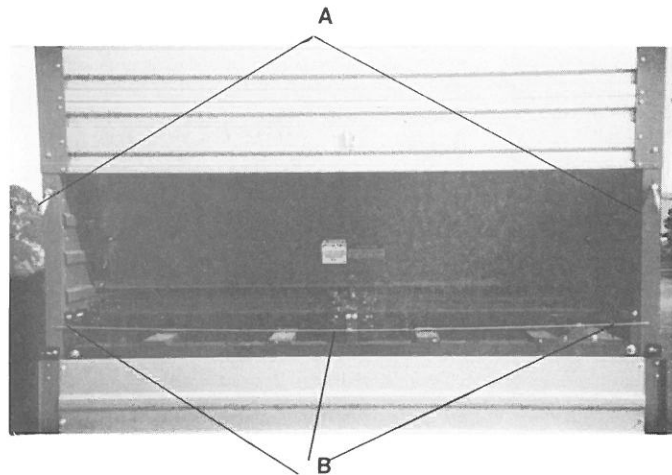
MAIN FEEDER APRON ADJUSTMENT

Main feeder apron adjustment bolts are located behind the convenient access door located in the bottom portion of rear tailgate. Remove handle nuts (A) to open access door and swing door downward.

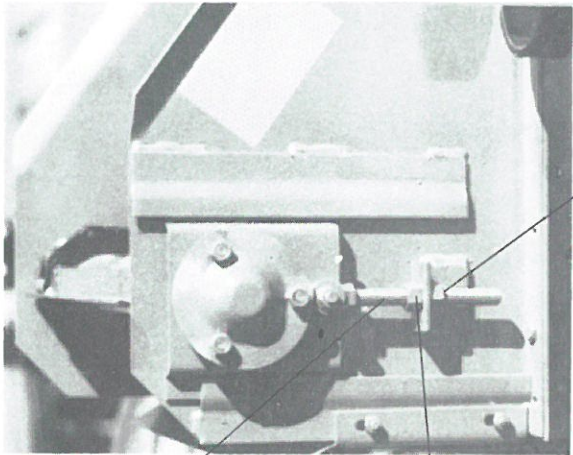
All apron chains must be taken up evenly before you use the forage box. Check again after the first few loads. The Main Feeder Aprons should be at proper tension at all times. Tighten the full threaded bolts (B) to adjust aprons. Aprons are properly adjusted when two Cross Slats, or about three feet of chain lift off the Chain Return Slides from the rear of the box. Maintain this tension when operating the box.



CLOSE ACCESS DOOR BEFORE OPERATING FORAGE BOX.

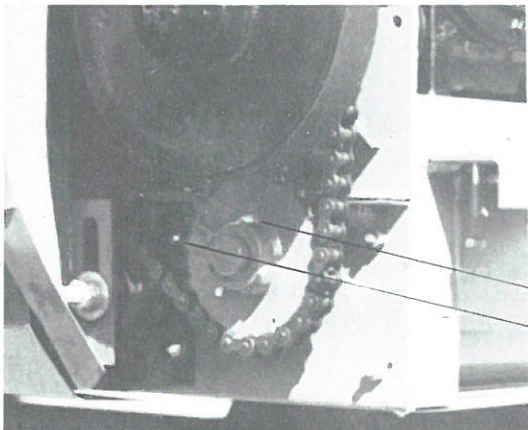


CROSS CONVEYOR



ADJUSTMENT

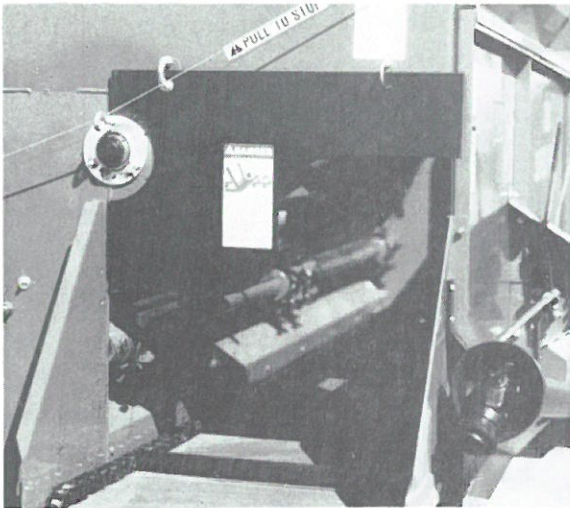
Proper tension should be maintained on cross conveyor chain when operating box. To adjust cross conveyor, loosen the jam nuts (A) on tightener bolts (B). Move adjusting nuts (C) on tightener bolts until proper tension on chain is reached. The chain is properly adjusted when the center slats clear the bottom return pan by about 1/16 of an inch. Adjust both sides equally. Lock in place with jam nuts.



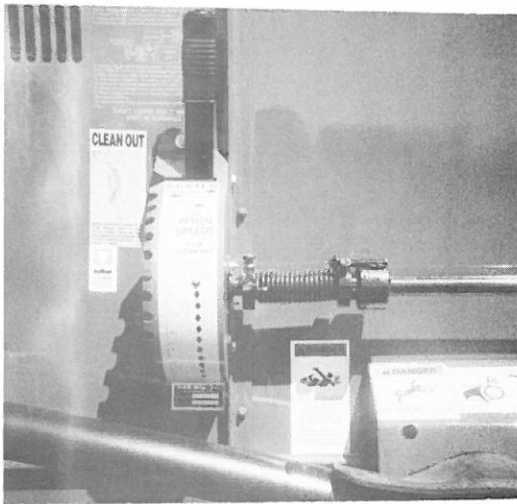
SHEAR BOLT

The cross conveyor is protected by one shear bolt, located in the drive sprocket at the left hand end of cross conveyor. One spare shear bolt is provided. Always determine the cause of failure and eliminate the cause before installing new shear bolt. Use only H&S shear bolts, part number S84 when replacing shear bolt.

- A. Shear Bolt
- B. Spare Shear Bolt

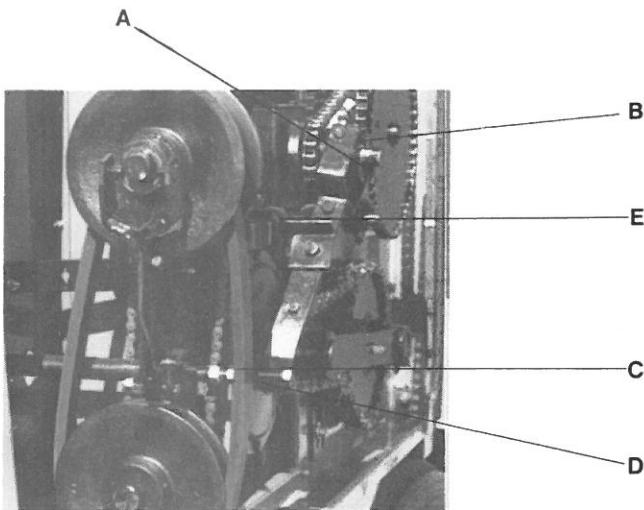


Shown here is the spring loaded plastic guard which protects the operator from accidentally being exposed to the bottom beater at the discharge opening during operation of forage box. Keep this guard in proper position at all times when operating forage box.



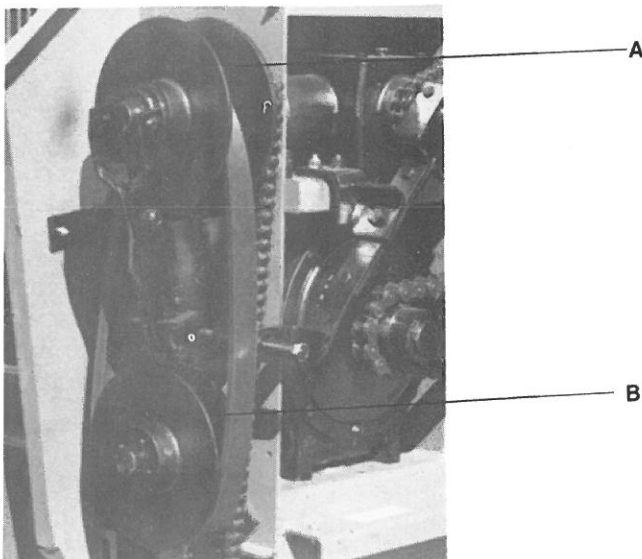
BEATER ENGAGE AND APRON SPEED CONTROL LEVER

This single lever controls both beater engage/disengage and the speed of the main feeder aprons. This control lever is spring loaded to allow the operator to select desired speed of unloading prior to engaging PTO. **CAUTION:** DO NOT ENGAGE BEATERS OR MAIN APRONS WHEN DISCHARGE CHAMBER IS FULL OF MATERIAL OR DAMAGE TO FORAGE BOX WILL RESULT. ENGAGE PTO SLOWLY when operating in this manner, as cross conveyor, beaters, and main aprons will all start at the same time. ALWAYS RETURN CONTROL LEVER TO NEUTRAL POSITION WITH PTO RUNNING. CROSS CONVEYOR RUNS WHEN PTO IS ENGAGED AND IS NOT CONTROLLED BY THIS LEVER.



BEATER CLUTCH ADJUSTMENT

Check beater clutch periodically to insure beaters are being completely engaged or disengaged. Beater engage/disengage clutch is properly adjusted when there is $\frac{1}{8}$ inch of clearance between clutch jaw (A) and engaging pin (B), when control lever is in the disengage position. Basic adjustment can be made by positioning adjusting nut (C) $2\frac{7}{8}$ " from end of control rod. Place control arm (D) tight against nut. Adjust mounting bracket (E) in slotted holes on unit until $\frac{1}{8}$ " clearance is reached. Fine adjustment is made by adjusting nut (C) on control rod.



VARIABLE SPEED DRIVE BELT

After extended use of forage box, it may become necessary to adjust or replace variable speed drive belt.

REPLACEMENT

If it becomes necessary to replace the variable speed drive belt, follow the steps listed below to remove worn belt:

1. Place control lever in beater disengage position.
2. Open upper sheaves (A) so belt rests on drive pins.
3. Remove belt from lower sheaves (B) first and then upper sheaves.

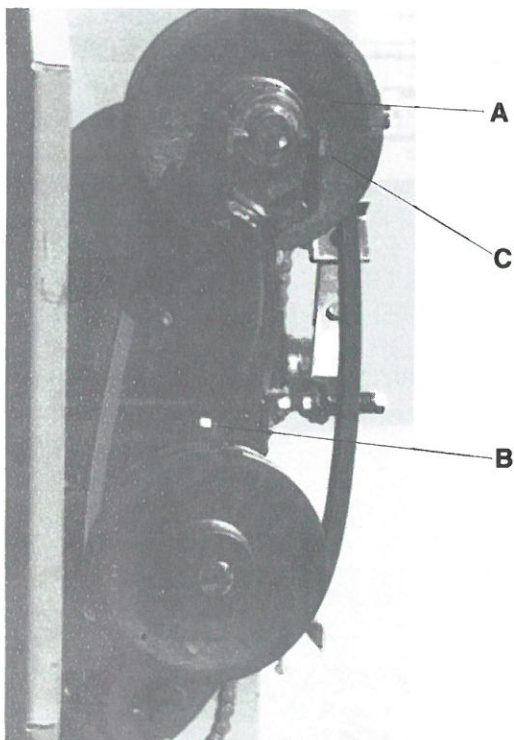
Reverse the above steps when installing new belt.

VARIABLE SPEED BELT ADJUSTMENT

ADJUSTMENT

You should rarely have to adjust the variable speed drive belt. If, however, it becomes necessary to adjust the belt follow the steps listed below:

1. Remove belt as previously instructed.
2. Move control lever to the highest apron speed position.
3. Check upper sheaves (A), if base of sheaves are not tight together, it is necessary to adjust.
4. Remove bolt from control rod (B).
5. Slide sheaves tight together, being sure control yoke (C) is tight against thrust bearing and sheaves.
6. Adjust control rod (B) so hole in control yoke and rod align, then one additional turn.
7. Replace bolt. Allow sufficient play when tightening, so control rod pivots.
8. Place control lever in beater disengage position and replace belt.



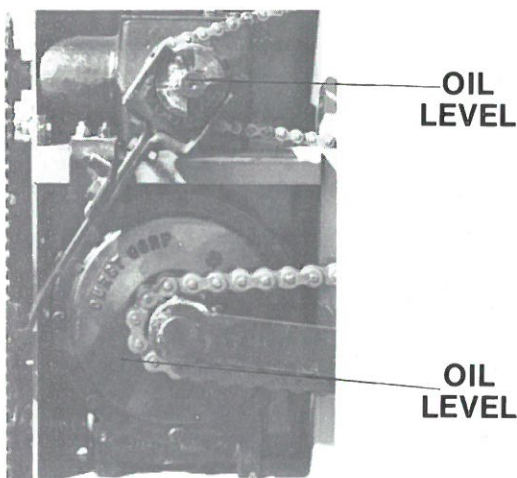
BE CAREFUL
GREASE AND OIL THIS MACHINE ONLY
WHEN THE PTO IS DISENGAGED
& TRACTOR IS SHUT OFF

LUBRICATION

The operator should become familiar with all lubrication points and establish a systematic routine to insure complete and quick lubrication of the machine.

GEAR BOXES - Before using your new machine, check the oil in the main apron drive and beater drive gear box. Keep the main apron gear box filled to the oil level plug in cover of gear box. Beater drive gear box should be filled to the center of the shafts Use 80W-90 gear lube.

DRIVE CHAINS - Lubricate the drive chains with a light machine oil. Keep chains aligned with sprockets, this will lengthen the life of the sprockets and chain. Lubricate chains often.

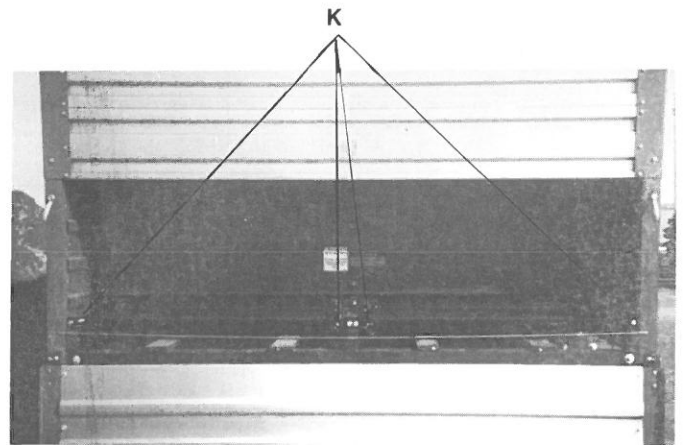
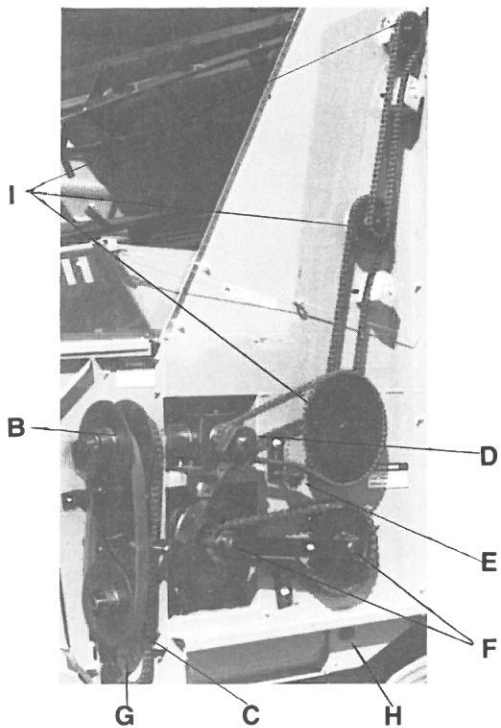
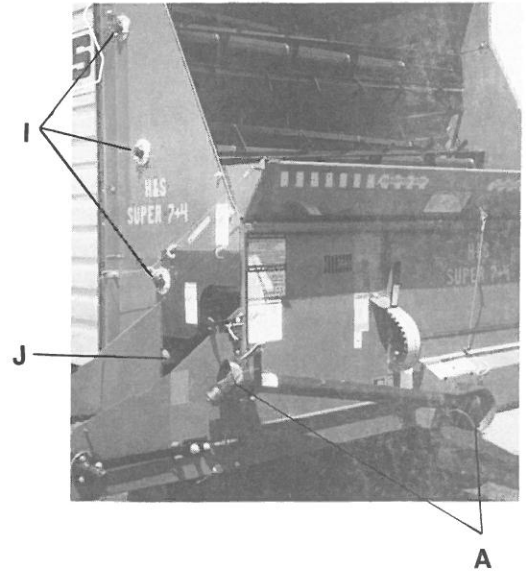




Lubrication Guide

There are 22 grease fittings on your new H & S SUPER 7 + 4 forage box. Grease daily during normal use and before and after storage. Use a good grade of high quality grease.

- A. (2) one at each end of PTO at U-joint
- B. One on variable drive outer upper sheave
- C. One on variable drive inner lower sheave
- D. One on beater drive clutch
- E. One on sprocket type chain tightener - beater drive chain
- F. (2) one at each end of brace - gearbox to main apron drive shaft
- G. One on cross conveyor drive shear sprocket
- H. (2) remote fittings for left hand and center main apron drive shaft bushings
- I. (6) beater bearings - one at each end of each beater (sealed bearings-do not grease)
- J. One on right hand main apron drive shaft bushing
- K. (4) one on each main apron rear idler sprocket





PTO ASSEMBLY

Care must be taken to keep male and female driving elements well lubricated and free sliding. The shield surfaces must be kept dry, as dirt accumulation on them will quickly cause these units to bind and not rotate. If, at any time the shields do not turn freely, they should be checked to determine the cause, and repaired or cleaned. DO NOT STEP OVER PTO SHAFT. STAY CLEAR OF PTO AT ALL TIMES.

Instructions For Ordering Parts

All service parts should be ordered through your H & S Dealer. He will be able to give you faster service if you will provide him with the following:

1. Model of Forage Box - H & S SUPER 7 + 4
Serial Number - Serial number is located on the front main panel - below control lever.
2. Complete parts number and description, as shown in parts lists.
3. If dealer has to order part - give shipping instructions.

VIA Truck - Large Pieces (specify local delivery truck line)
VIA United Parcel Service
VIA Parcel Post

H&S Mfg. Co.	
MARSHFIELD, WIS.	
MOD. NO.	SUPER 7 + 4
SER. NO.	

Record Numbers In Spaces Provided Above From The Serial Number
Tag Off Machine As A Handy Record For Quick Reference.

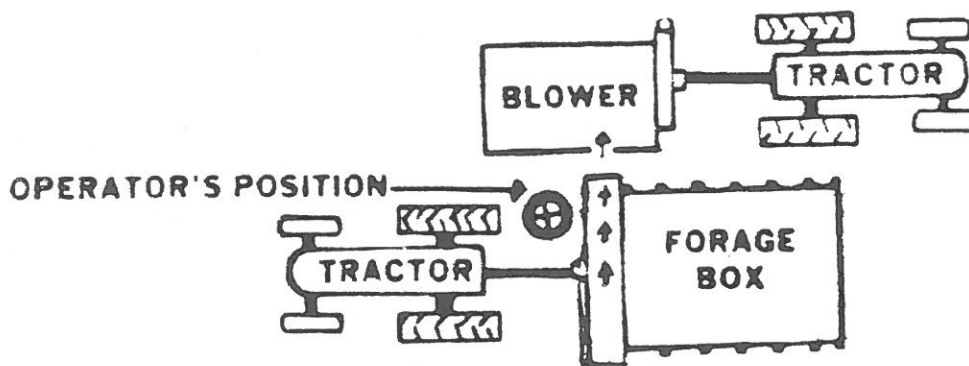


FIELD OPERATION OF H & S SUPER 7 + 4 FORAGE BOX

After you have idled your H & S SUPER 7 + 4 forage box for several minutes, and checked it over thoroughly as suggested in earlier recommendations, and have properly adjusted and lubricated it - you are ready to place your forage box into operation.

UNLOADING

1. Park forage box on level ground whenever possible during unloading. Lock tractor parking brake.
2. With control lever in the beater disengage position, connect PTO to tractor locking it securely in place. USE 540 RPM PTO ONLY.
3. Engage PTO slowly to clean out cross conveyor.
4. Operator should be positioned away from PTO on the discharge side of unit as indicated below.



5. Quickly engaging/disengaging beaters will allow beaters to clear of crop a little at a time to avoid exceeding blower capacity.
6. When beaters are clear of material move control lever to apron speed positions. Variable speed drive offers you a number of unloading speeds to choose from. With experience and depending on type of forage, you will be able to select a speed which will match your blower capacity. Unloading speed may also be varied by increasing or decreasing engine speed of tractor.
7. Change apron speeds slowly and only when PTO is running.
8. Clean out positions are for cleaning out forage box at the end of load.
9. When forage box is empty, slowly return control lever to beater disengage position.
10. Disconnect PTO and place in convenient holder for field and road use.



**PAY PARTICULAR ATTENTION TO ALL WARNING AND INFORMATIONAL DECALS
KEEP ALL SHIELDS IN PLACE FOR SAFETY SAKE**



ENTERING FORAGE BOX FOR CLEAN OUT OR REPAIR

NEVER ENTER FORAGE BOX UNLESS ALL SAFETY PRECAUTIONS ARE FOLLOWED

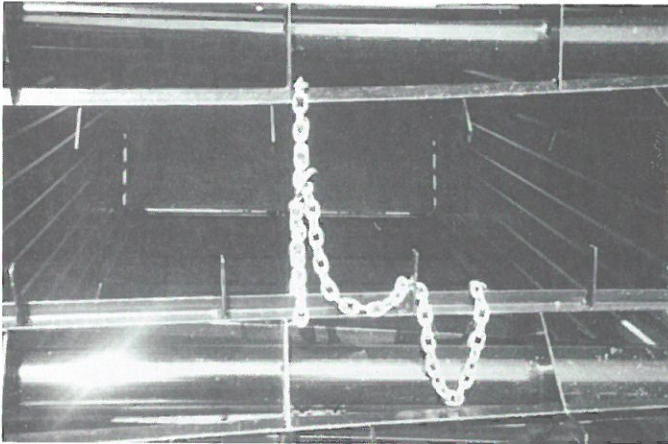
Use the following steps when entering forage box when NOT planning to run cross conveyor.

1. Shut off tractor.
2. Disconnect PTO from tractor and place in PTO hanger.
- ** Disengage tractor hydraulics and disconnect quick couplers at tractor.
3. Place control lever in beater engage position. This will prevent beaters from turning while climbing over them.
4. USE EXTREME CAUTION WHEN CLIMBING OVER BEATERS AS TINES ON BEATERS MAY CAUSE SEVERE INJURY.



If you plan to manually unload forage box utilizing cross conveyor, the following two-man procedure must be followed. NEVER ATTEMPT THIS PROCEDURE ALONE. PERSON OUTSIDE OF FORAGE BOX OPERATING CONTROLS MUST NOT LEAVE CONTROLS.

1. Place control lever in beater disengage position.
2. Disengage tractor PTO and shut off tractor.
- ** Disengage tractor hydraulics and shut off tractor.
3. Remove variable speed drive belt. This will prevent main aprons from moving.
4. Remove connector link from beater drive roller chain and remove chain from sprockets.
CAUTION: BEATERS ARE NOW FREE TO ROTATE.
5. Using a short piece of chain with hooks, secure top beater to center beater as illustrated below.



Wrap chain around bottom bar of third beater and top bar of second beater. Secure chain together as tight as possible to eliminate beaters from rotating in either direction. Keep excess chain out of cross conveyor chamber. NOTE: Hook chain properly and securely to prevent unhooking during this procedure.

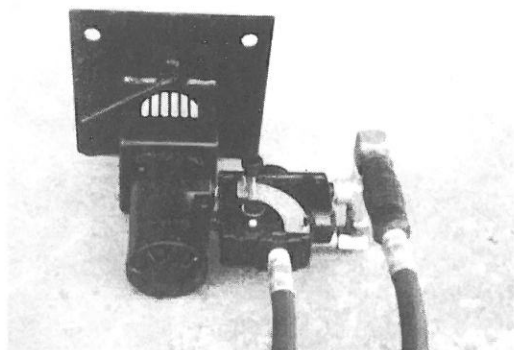
6. Using extreme caution, first person may now climb over beaters.
7. When first person is clear of beaters, second person may start tractor and engage PTO to operate cross conveyor.
8. Before first person attempts to leave forage box, second person must disengage tractor PTO and shut off tractor.
- ** Before first person attempts to leave forage box, second person must disengage tractor hydraulics and shut off tractor.
9. When forage box is clear of people, remove safety chain from beaters, reinstall drive belt and beater drive chain. Adjust tightener on roller chain.

** Denotes forage box equipped with optional hydraulic drive unit.

OPTIONAL QUICK DETACHABLE HYDRAULIC DRIVE UNIT

(PART NUMBER S86)

Shown below is the optional hydraulic drive unit available for use on your SUPER 7 + 4 forage box. This unit comes complete, less the hydraulic hoses to the tractor. Recommended tractor hydraulic capacity should be a minimum of 16 gallons per minute. This hydraulic unit offers a complete variable speed from zero (stop) to 350 RPM. Hydraulic unit has a safety check valve to prevent the possibility of operating the forage box in reverse. NOTE: When ordering hydraulic drive unit, order a mounting bracket (part number S201) for each SUPER 7 + 4 forage box you plan to use it on. Mounting instructions will be provided with each mounting bracket.



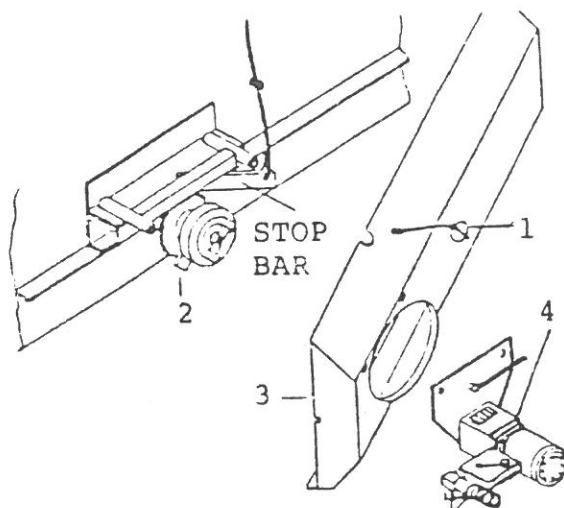
INSTALLING OPTIONAL DRIVE UNIT

Follow the steps listed below to attach hydraulic power unit to forage box.

1. Open front shield to expose PTO clutch.
2. Remove roll pin from PTO yoke pin.
3. Remove PTO yoke pin from safety trip clutch yoke.
4. Remove PTO shaft from forage box.
5. Replace PTO yoke pin in safety trip clutch yoke.
6. Replace roll pin in PTO yoke pin.
7. Remove rubber guard from front shield.
8. Close and latch front shield.
9. Align yoke on power unit with safety trip clutch yoke.
10. Slide power unit onto yoke and two guide pins.
11. Lock power unit in place with latch.

RESETTING EMERGENCY STOP WHEN USING OPTIONAL HYDRAULIC POWER UNIT

1. Set speed control on power unit at zero.
2. Shut off hydraulic oil supply from power source. Disconnect hoses from power source. LOOK AT DIAGRAM
3. Remove power unit (4) from forage box.
4. Remove latch pin (1) from shield.
5. Pull shield (3) forward.
6. Push emergency trip latch (2) counter-clockwise to reset.
7. Push stop bar down.
8. Replace shield (3) latch shield in place.
9. Reinstall power unit (4).
10. Connect hydraulic hoses to power source.
11. Start flow of hydraulic oil from power source.
12. Adjust speed control on power unit to continue unloading.



DECAL LOCATION

Your H & S SUPER 7 + 4 forage box was manufactured with operator safety in mind. Located on the forage box are various decals to aid in operation, and warn of danger or caution areas. Pay close attention to all the decals on your forage box.

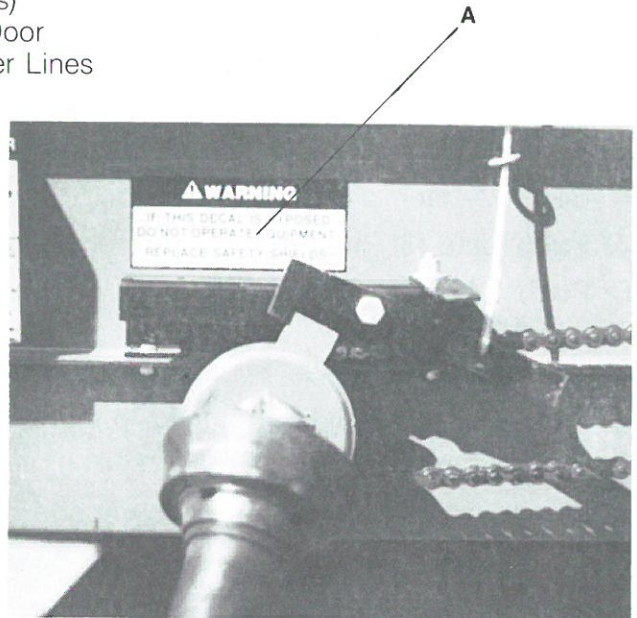
DO NOT REMOVE ANY OF THESE DECALS. IF DECALS ARE LOST, DAMAGED, OR IF FORAGE BOX IS REPAINTED, REPLACE DECALS. REMEMBER: DECALS ARE FOR YOUR PROTECTION AND INFORMATION.

Listed below are the decals on your SUPER 7 + 4 forage box. These calcs may be ordered individually by part number or by ordering complete set.

REF. NO.	PART NO.	DESCRIPTION
A	11186F	(4) Warning-Do Not Operate
B	11186A	Warning-Do Not Remove Shields
C	11186E	Warning-Do Not Hard-Clean
D	11186L	Warning-Do Not Remove Shields
E	11186B	Warning-No Step
F	11186J	Danger-Rotating Driveline
G	106-3185	Serial Number
H	1191R	Beater Engage/Disengage
I	7+4-3185H	Do Not Force This Lever
J	A7232-B	Warning-PTO
K	3187A	(3) Danger-Stay Clear
L	11186H	Safety Instructions
M	11186I	Safety Instructions
N	7+4-4187A	Field Operation
O	104-3185	Push This Panel
P	7+4-4187B	Safety Instructions
Q	103-3185	Emergency Stop
R	7+4-3185G	Danger-Entering Forage Box
S	120-2177	(2) Pull To Stop
T	112-11176	Shear Bolt
U	107-3185	H & S Metal Sign (12 x 24)
V	110-11180	(2) Warning-Moving Parts Under (Use 4 on 18' Box)
W	1787-J	(2) Attention-Wood Rot
X	102-3185	(3) Red Reflector
Y	101-3185	Amber Reflector
Z	115-11176	Be Careful (3 Line Items)
AA	7+4-3185F	Danger-Close Access Door
BB	1389	Danger-Stay Clear-Power Lines
CC	7+4-2191R	Clean Out
	7+4-13191B	Complete Set of Decals

Paint - H & S Red

ZX21	Gallon
ZX22	Quart
ZX23	Pint



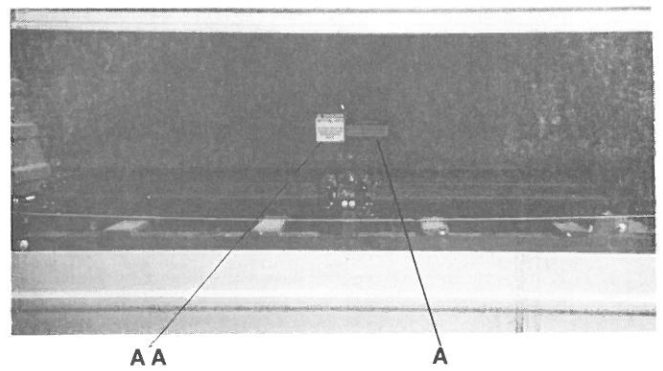
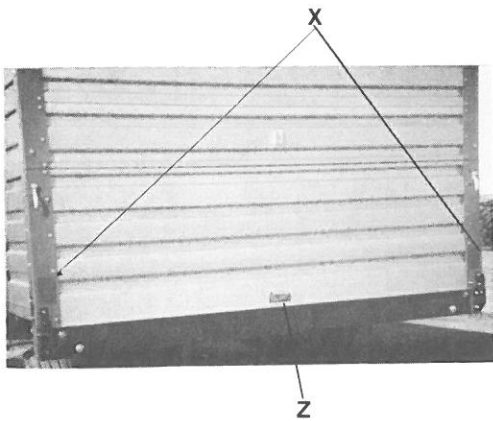
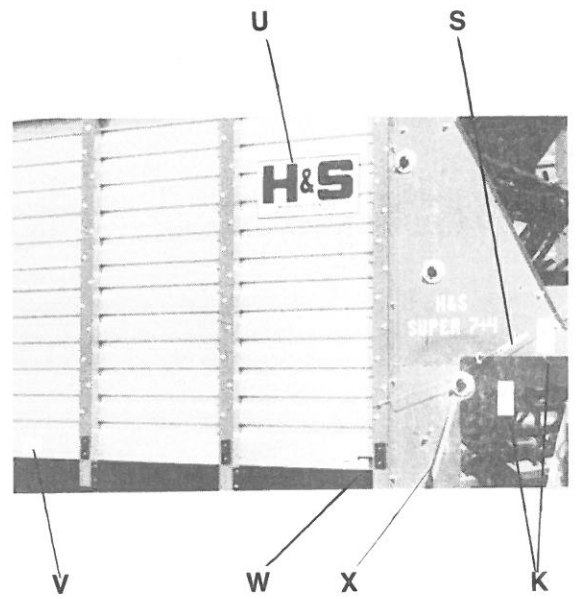
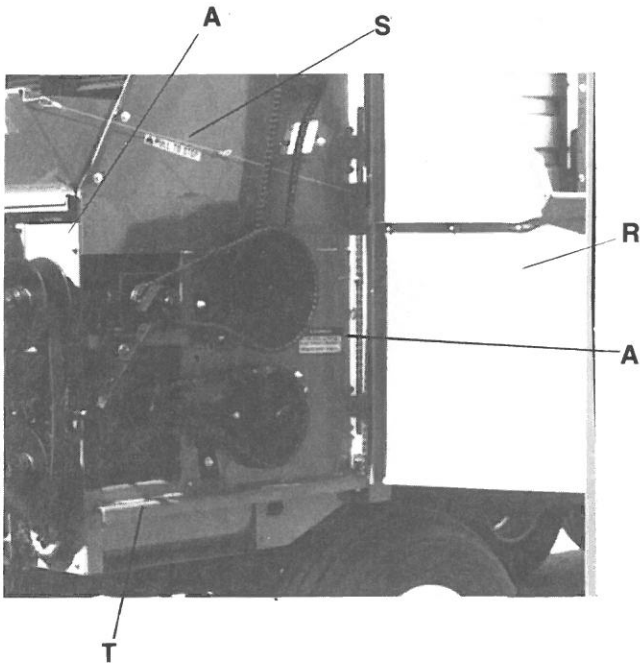
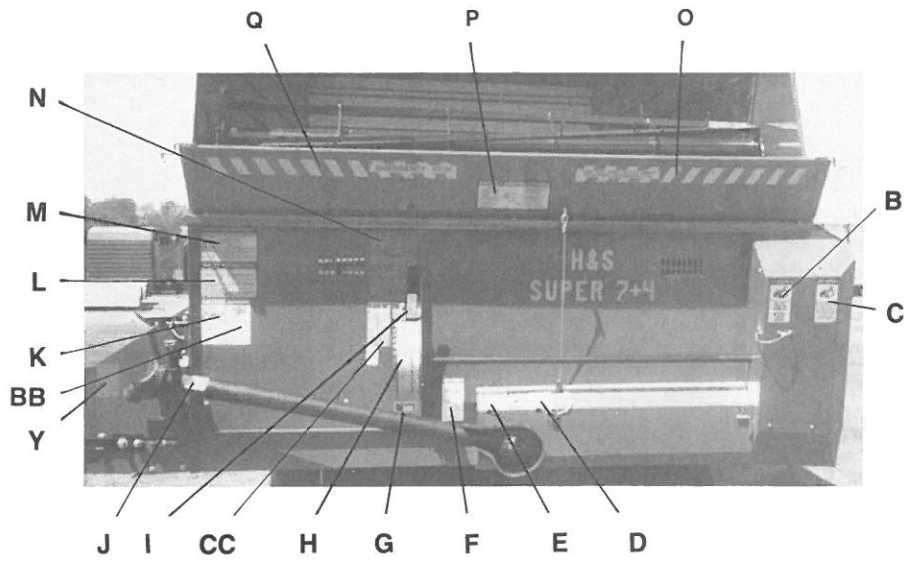


FIGURE 1

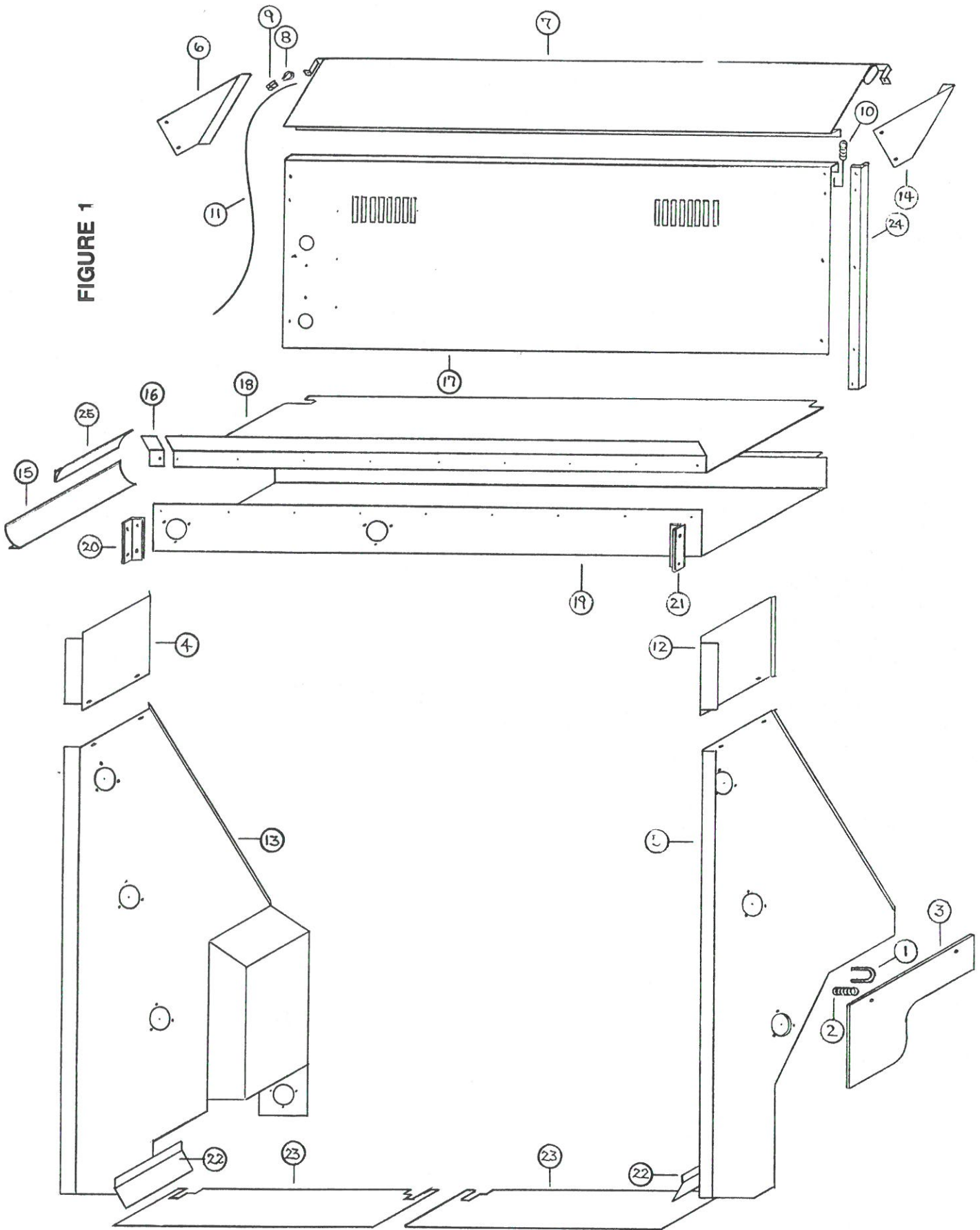


FIGURE 1

HOUSING COMPONENTS FOR UNIT

ITEM	PART NO.	DESCRIPTION
1	F32	U-Bolt (2)
2	S1	Spring For Shield
3	S2	Beater Plastic Shield
4	S3	LH Side Panel Top
5	SR1	RH Side Panel
6	S5	LH Emergency Stop Panel
7	SR2	Emergency Stop Panel
8	ES14	Thimble (2)
9	ES15	Cable Clamp (2)
10	S7	Spring For Emergency Stop (3)
11	S8	Cable
12	S9	RH Side Panel Top
13	SR3	LH Side Panel
14	S11	RH Emergency Stop Panel
15	SR4	Return Pan End
16	SR5	Cross Apron Pan End
17	SR6	Front Main Panel
18	SR7	Cross Apron Pan
19	SR8	Return Pan
20	S18	Return Pan Angle
21	S19	Return Pan Angle
22	S20	Apron Side Spacer
23	S21	Drive Shaft Panel
24	SR9	RH Front Angle
25	SR10	Return Pan End

FIGURE 2

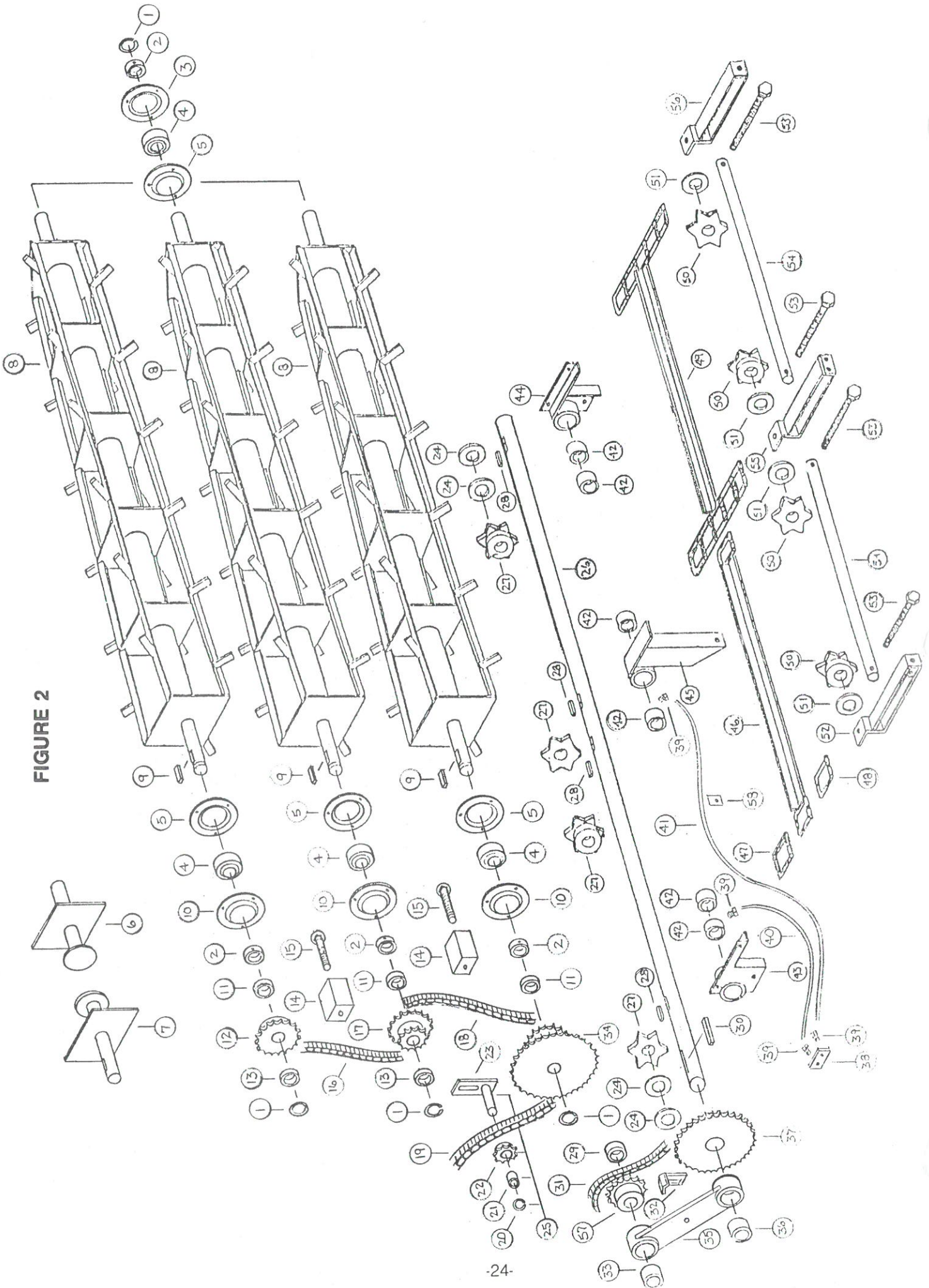


FIGURE 2
BEATERS AND MAIN APRON DRIVE

ITEM	PART NO.	DESCRIPTION
1	F73	Snap Ring
2	F16	Lock Collar
3	F114	Bearing Flange w/Zerk
4	F115	Bearing Grease Type
5	F14	Bearing Flange
6	S23	Beater Stub Shaft
7	S24	Beater Stub Shaft w/Keyway
8	S25	Beater
9	G23	5/16 x 1-3/8 Key
10	F114A	Bearing Flange w/45 Zerk
11	S218	Spacer
12	S26	20T Sprocket
13	S219	Spacer
14	S27	Wood Chain Tightener
15	S28	Carriage Bolt
16	X58	#50 Chain 89 Pitches
17	S30	Sprocket 30T-13T
18	S31	#50 Chain 98 Pitches
19	X58	#50 Chain 89 Pitches
20	10R32	Snap Ring
21	S33	Chain Tightener Bushing
22	S34	Tightener Sprocket w/Bushing
23	S35	Chain Tightener Bracket
24	S36	Drive Shaft Space
25	S216	Chain Tightener Assembly
26	S68	Main Apron Drive Shaft
27	S37	Apron Drive Shaft Sprocket
28	A32	3/8 x 1-3/8 Sq. Key
29	A5	Spacer
30	S38	3/8 x 2-3/8 Sq. Key
31	ST10	#80 Chain 56 Pitches
32	S40	Chain Tightener
33	S41	Bushing
34	S42	Sprocket 60T-20T
35	S43	Drive Shaft Brace
36	S44	Bushing
37	S45	Apron Drive Sprocket 30T
38	S46	Grease Line Bracket
39	S47	Grease Line Fitting
40	SR11	Short Grease Line
41	SR12	Long Grease Line
42	S50	Drive Shaft Bushing
43	SR41	LH Drive Shaft Bracket
44	SR42	RH Drive Shaft Bracket
45	SR43	Center Bearing Bracket
46	S54	T-Rod Slat w/Att. Links
	S233	667H Pintle Slat w/Att. Links
47	S55	T-Rod Standard Link
48	S56	T-Rod Connector Link
	11S51	667H Pintle Connector Link
	11S50	667H Pintle Att. Link RH or LH
49	S57	T-Rod Complete Apron 14'
	S230	667H Pintle Apron 14'
	S58	T-Rod Complete Apron 16'
	S231	667H Pintle Apron 16'
	S59	T-Rod Complete Apron 18'
	S232	667H Pintle Apron 18'
50	S60	Rear Idler Sprocket
51	S61	Idler Shaft Spacer
52	S62	LH Rear Idler Bracket
53	A7	Tightener Bolt
54	S63	Rear Idler Shaft
55	S64	Center Idler Bracket
56	S65	RH Rear Idler Bracket
57	ST11	Worm Gear Shaft Sprocket 13T
58	S67	Grease Line Clip
Not Shown	F157	#80 Connector Link
Now Shown	F158	#80 Offset Link
Not Shown	X60	#50 Offset Link
Not Shown	X61	#50 Connector Link

FIGURE 3

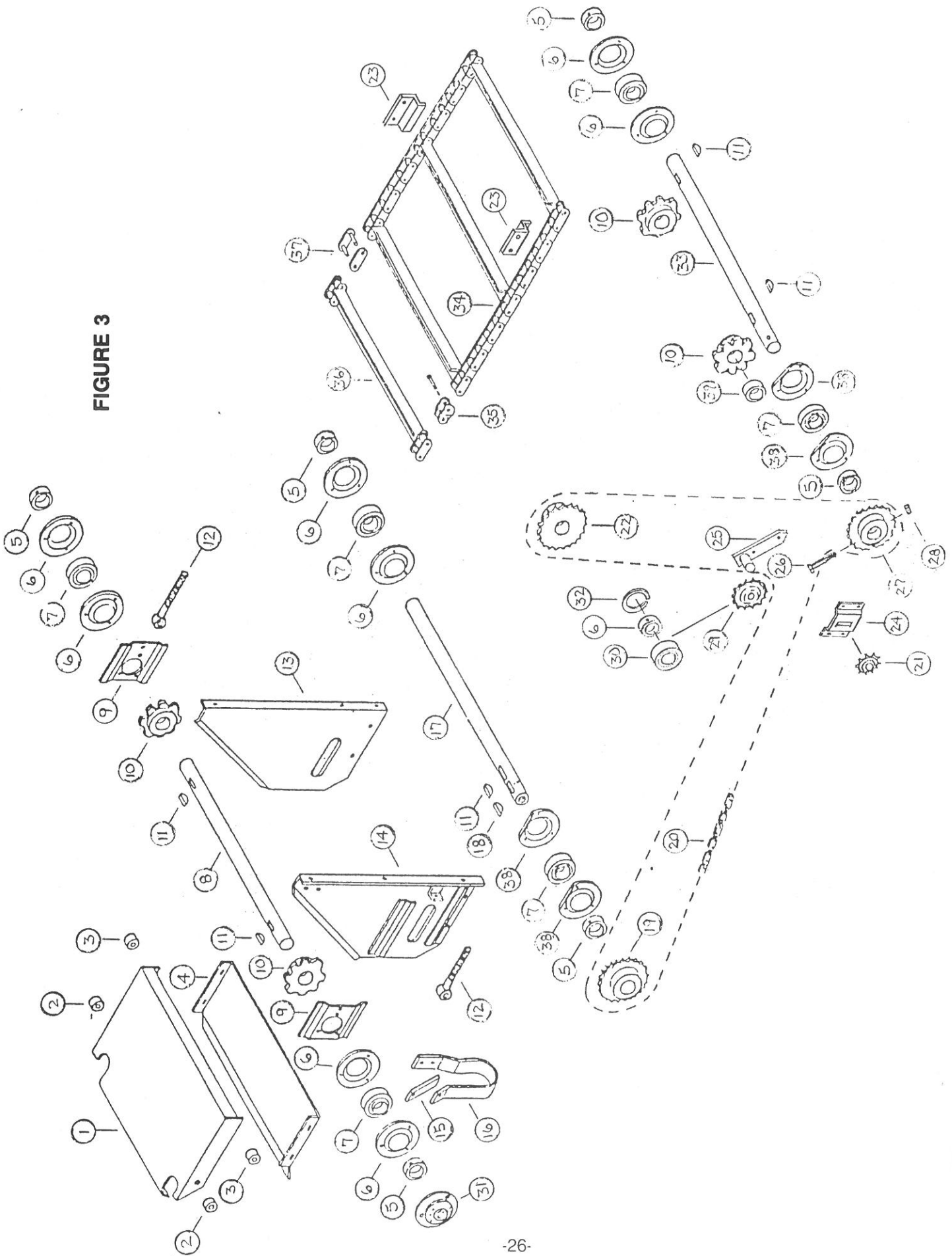


FIGURE 3**CROSS CONVEYOR AND DRIVE ASSEMBLY**

ITEM	PART NO.	DESCRIPTION
1	S69	Cross Apron Pan Extension
2	S70	Spacer
3	S71	Pan Extension Carrier
4	S72	Return Pan Extension
5	4C9	Lock Collar
6	4C7	Bearing Flange
7	4C8	Bearing
8	S73	Cross Apron Idler Shaft
9	S74	Tightener Bracket
10	L10R24	8T Sprocket
11	5B10	1/4 x 1 Woodruff Key
12	S75	Tightener Bolt
13	SR13	Tightener Panel Rear
14	SR14	Tightener Panel Front
15	S78	PTO Holder Rubber Tab
16	S79	PTO Holder
17	S80	PTO Jackshaft
18	5B11	3/16 x 1 Woodruff Key
19	11S19	Sprocket 20T
20	SR15	#50 Chain 218 Pitches
21	K101	Tightener Sprocket 17T
22	S82	Sprocket 24T
23	S223	Cross Conveyor Holdown
24	SR16	Tightener Bracket
25	SR17	Idler Bracket
26	S84	5/16 x 2-1/2 Shear Bolt Grade 5
27	S85	Sprocket 24T
28	D81	5/16 Lock Nut
29	K89	Idler Sprocket 20T
30	K90	Bearing
31	S87	Cross Apron Shaft Guard
32	K92	Snap Ring
33	S88	Cross Apron Drive Shaft
34	S89	Cross Conveyor
35	K122	550 Offset Link Cross Conveyor
36	K120	550 Slat w/Att. Links
37	K121	550 Connector Link Cross Conveyor
38	X85	Bearing Flange Sheared
39	K132	Spacer

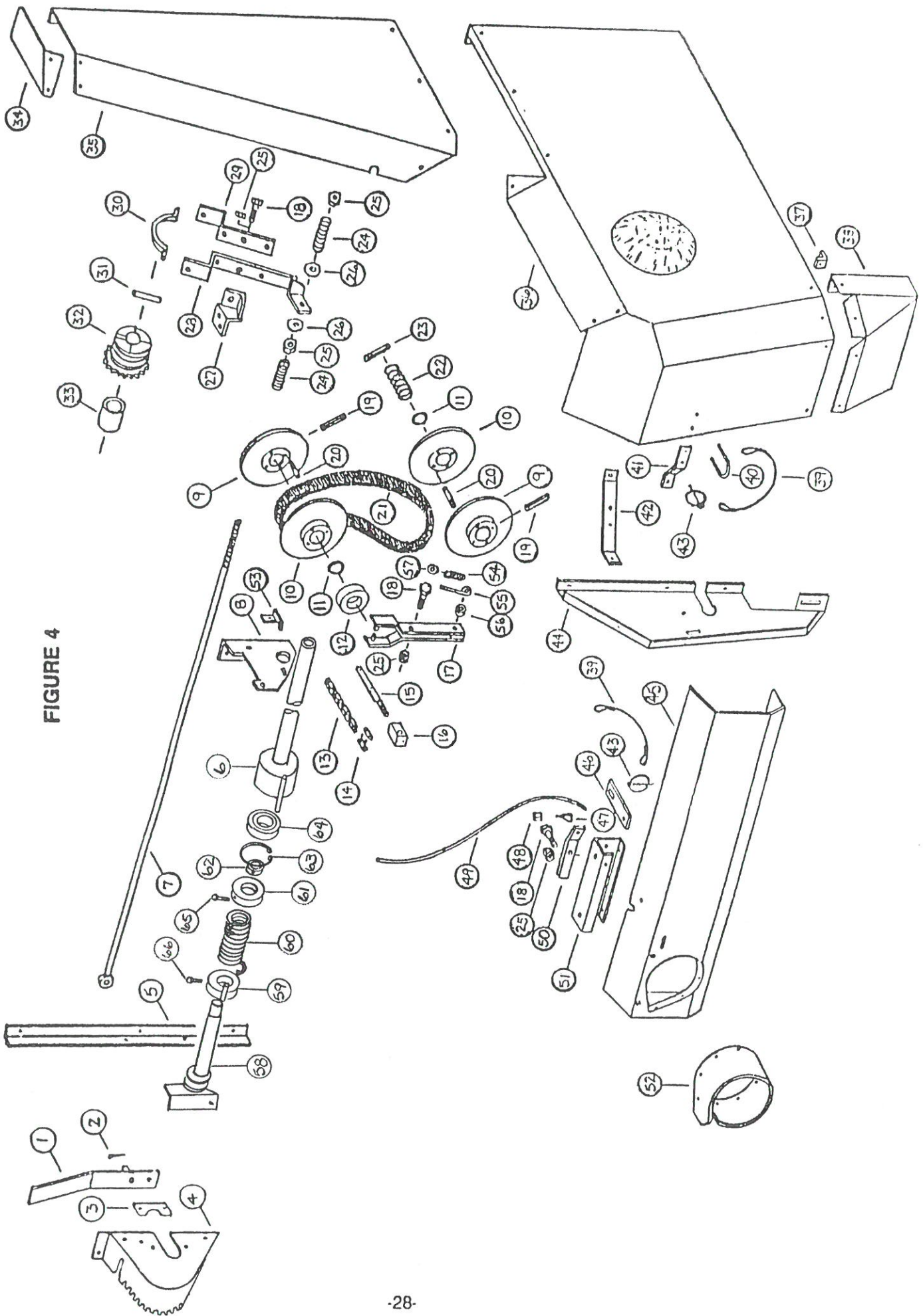


FIGURE 4

FIGURE 4
SHIELDS - BEATER CLUTCH - BELT DRIVE

ITEM	PART NO.	DESCRIPTION
1	SR18	Shifter Handle
2	X43	Cotter Pin
3	S91	Shifting Pipe Bracket
4	SR40	Speed Selector Panel
5	SR20	Front Center Angle
6	SR47	Shifting Pipe (Apron)
7	S95	Shifting Rod (Beater)
8	SR22	Shifting Bracket
9	S97	Stationary Sheave
10	S295	Sliding Sheave
11	S99	O-Ring
12	S100	Thrust Bearing
13	S101	#40 Chain 5 Pitches
14	S102	#40 Connector Link
15	S103	Linkage Rod
16	S104	Adjustment Block
17	S105	Variable Speed Shifter
18	R10	1/2 x 1-1/4 Bolt Grade 5
19	S106	5/16 x 2-3/4 Expansion Pin
20	S296	Sheave Pin
21	S108	Variable Speed Belt
22	S109	Spring
23	S110	1/4 x 2 Expansion Pin
24	S111	Spring
25	9S17	1/2" Lock Nut
26	K68	Flat Washer
27	SR23	Beater Clutch Bracket
28	SR24	Beater Clutch Long Arm
29	SR25	Beater Clutch Short Arm
30	D69	Clutch Yoke
31	S115	Beater Clutch Pin
32	S116	Beater Clutch Sprocket
33	S117	Beater Clutch Bushing
34	SR26	Beater Shield Top
35	SR27	Beater Side Shield
36	SR28	Main Side Shield
37	D58	Shield Angle
38	SR29	Side Shield Bottom
39	S122	Clip Pin Cable
40	F32	U-Bolt
41	S123	Shield Latch Bracket
42	S234	Shield Brace
43	F56	Clip Pin
44	SR31	Front Upright Shield
45	SR32	Front Shield
46	S127	Front Shield Latch Bracket
47	ES4	Thimble (2)
48	ES5	Cable Clamp
49	S128	Emergency Stop Cable
50	SR33	Emergency Stop Bar
51	SR34	Emergency Stop Bracket
52	SR35	PTO Rubber Shield
53	SR36	Spring Shift Bracket
54	S222	Shifting Spring
55	S220	Shifting Spring Rod
56	K94	Spacer
57	T16	1/4" Flat Washer
58	SR44	Shifter Pipe Handle End
59	SR291	Spring Pin Collar
60	SR46	Spring
61	S293	Spring Collar
62	4C9	Lock Collar
63	K92	Snap Ring
64	K90	Bearing
65	17G141	Bolt 3/8" x 1 1/4" gr. 5
66	X111	Bolt 3/8" x 1" gr.5
NOT SHOWN	SR45	Complete Shifter

FIGURE 5

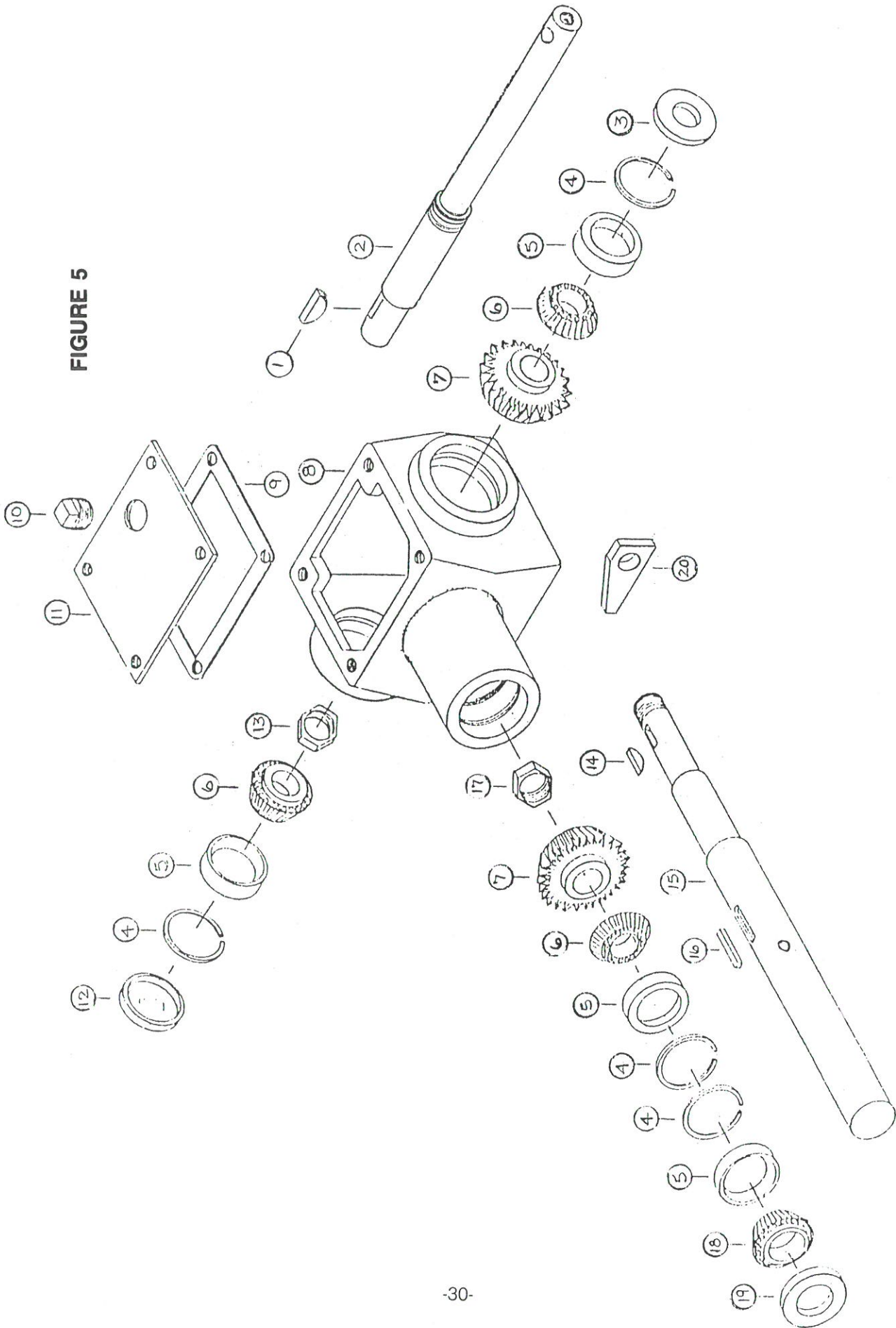


FIGURE 5**BEVEL GEAR BOX**

ITEM	PART NO.	DESCRIPTION
1	5B10	1/4 x 1 Woodruff Key
2	SR37	Gear Box Side Shaft
3	3G9	Seal
4	3G19	Snap Ring
5	3G18	Race #15245
6	3G7	Bearing #15101
7	3G5	Gear
8	3G1	Gear Box Housing
9	3G2	Gear Box Gasket
10	3G20	Fill Plug
11	3G3	Cover
12	X2	Dust Cap
13	3G11	Nut
14	5B10	1/4 x 1 Woodruff Key
15	S134	Gear Box Front Shaft
16	S135	1/4 x 1-1/4 Sq. Key
17	3G4	Nut
18	L3G24	Gear Box Bearing #15113
19	S136	Seal
20	S12	Gear Box Brace
Not Shown	SR38	Bevel Gear Box Complete

FIGURE 6

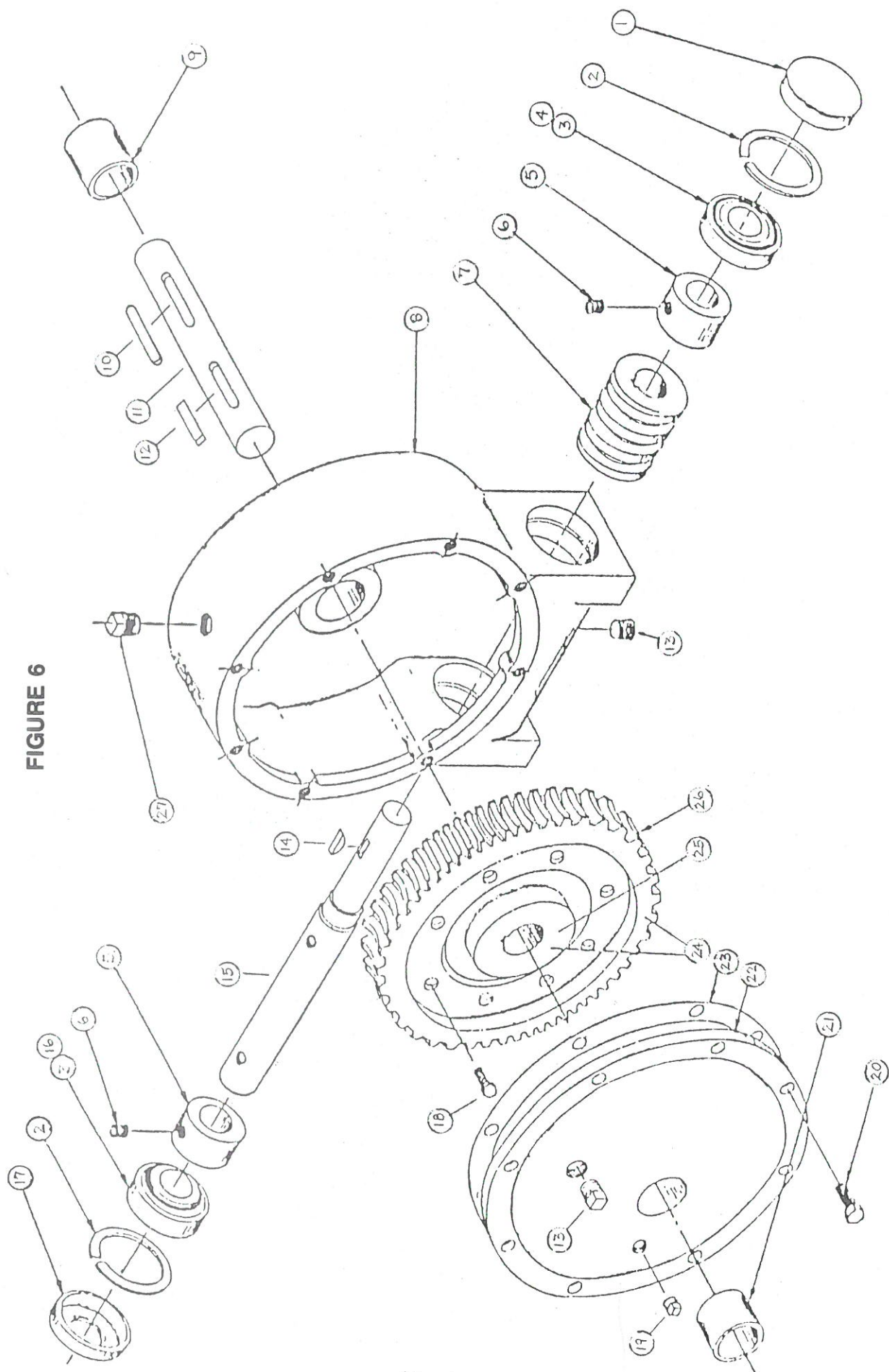


FIGURE 6

WORM GEAR BOX

ITEM	PART NO.	DESCRIPTION
1	X2	Dust Cap
2	3G19	Snap Ring
3	3G18	Race #15245
4	3G7	Bearing #15101
5	X9	Spacer
6	G83	Set Screw
7	G76	Worm
8	X7	Gear Box Housing
9	X8	Bushing
10	S138	3/8" x 2-3/8" Square Key w/Round Ends
11	S139	Worm Gear Side Shaft
12	A32	3/8" x 1-3/8" Square Key
13	G65	Plug
14	5B10	1/4" x 1" Woodruff Key
15	S140	Worm Gear Front Shaft
16	L3G24	Gear Box Bearing #15113
17	S136	Seal
18	X111	Bolt For Bronze
19	G87	Plug
20	G84	Cap Screw
21	X75	Bushing - Cover
22	S141	Worm Gear Box Cover
23	X5	Gasket
24	G77	Worm Gear Assy.
25	X71B	Cast Hub to Bolt Ring Gear to
26	G77A	Ring Gear
27	G91	Vent Plug
		NOT SHOWN
	SR39	Worm Gear Box Complete

FIGURE 7

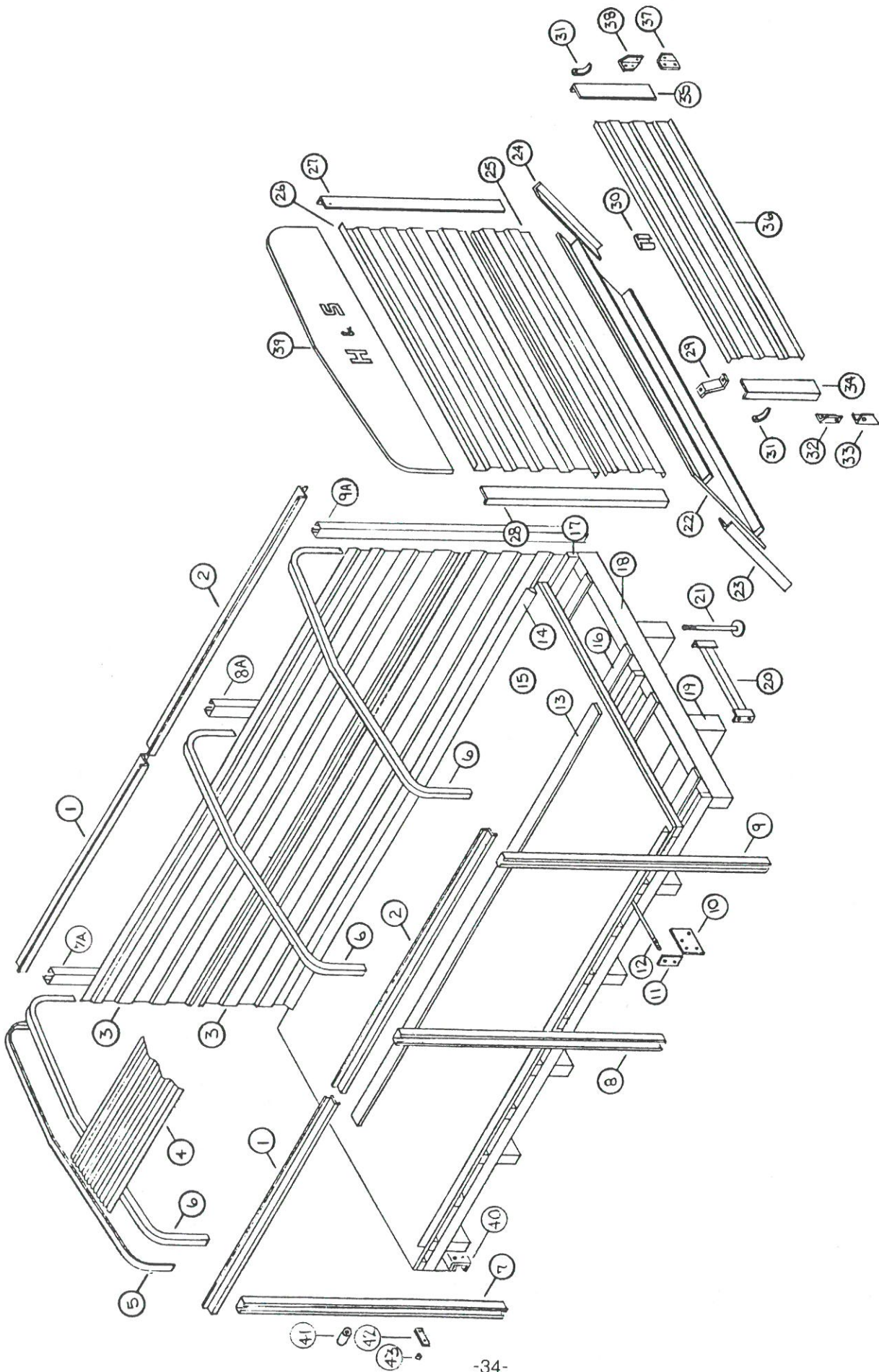


FIGURE 7

BOX COMPONENTS

ITEM	PART NO.	DESCRIPTION
1	S142	14' Roof Sill Front Section
	S143	16' Roof Sill Front Section
	S144	18' Roof Sill Front Section
2	S145	14' Roof Sill Back Section
	S146	16' Roof Sill Back Section
	S147	18' Roof Sill Back Section
3	S148	14' Side Steel
	S149	16' Side Steel
	S150	18' Side Steel
4	S151	14' Roof Steel (5)
	S152	16' Roof Steel (5)
	S153	18' Roof Steel (5)
5	S154	Branch Guard
6	S155	Roof Support
7	ST48	LH Front Stake
7A	ST48	RH Front Stake
8	ST49	LH Side Stake
8A	ST49	RH Side Stake
9	ST50	LH Back Stake
9A	ST51	RH Back Stake
10	ST52	Stake Plate
11	S160	Stake Washer
12	ST53	Tie Rod 90 ¹ / ₄ "
13	S162	14' Apron Chain Center Spacer
	S163	16' Apron Chain Center Spacer
	S164	18' Apron Chain Center Spacer
14	S165	14' Apron Chain Side Spacer
	S166	16' Apron Chain Side Spacer
	S167	18' Apron Chain Side Spacer
15	S168	14' Floor Assembly
	S169	16' Floor Assembly
	S170	18' Floor Assembly
16	S171	14' Apron Chain Return Slide
	S172	16' Apron Chain Return Slide
	S173	18' Apron Chain Return Slide
17	S174	14' Floor Support 2x4
	S175	16' Floor Support 2x4
	S176	18' Floor Support 2x4
18	S177	Sub Frame Cross Piece 4x6
19	S178	14' Stringer
	S179	16' Stringer
	S180	18' Stringer
20	S181	4x10 Stringer Spacer
	S182	6x10 Stringer Spacer
21	S183	Stringer Rods
22	S184	Rear Slant Panel
23	S185	LH Angle for Slant Panel
24	S186	RH Angle for Slant Panel
25	S187	Back Door Center Steel
26	S188	Back Door Upper Steel
27	S189	Back Door RH Side Piece
28	S190	Back Door LH Side Piece
29	S191	Slant Panel Brace
30	F97	SMV Holder
31	S192	Handle Nut
32	S193	LH Hinge Top Piece
33	S194	LH Hinge Bottom Piece
34	S195	Tailgate LH Side Piece
35	S196	Tailgate RH Side Piece
36	S197	Tailgate Steel
37	S198	RH Hinge Bottom Piece
38	S199	RH Hinge Top Piece
39	S200	Back Door Top Panel
40	ST54	Front Channel
41	ST55	Stake Spacer
42	ST56	Cable Bracket
43	ST57	Plastic Grommet for Cable

FIGURE 8

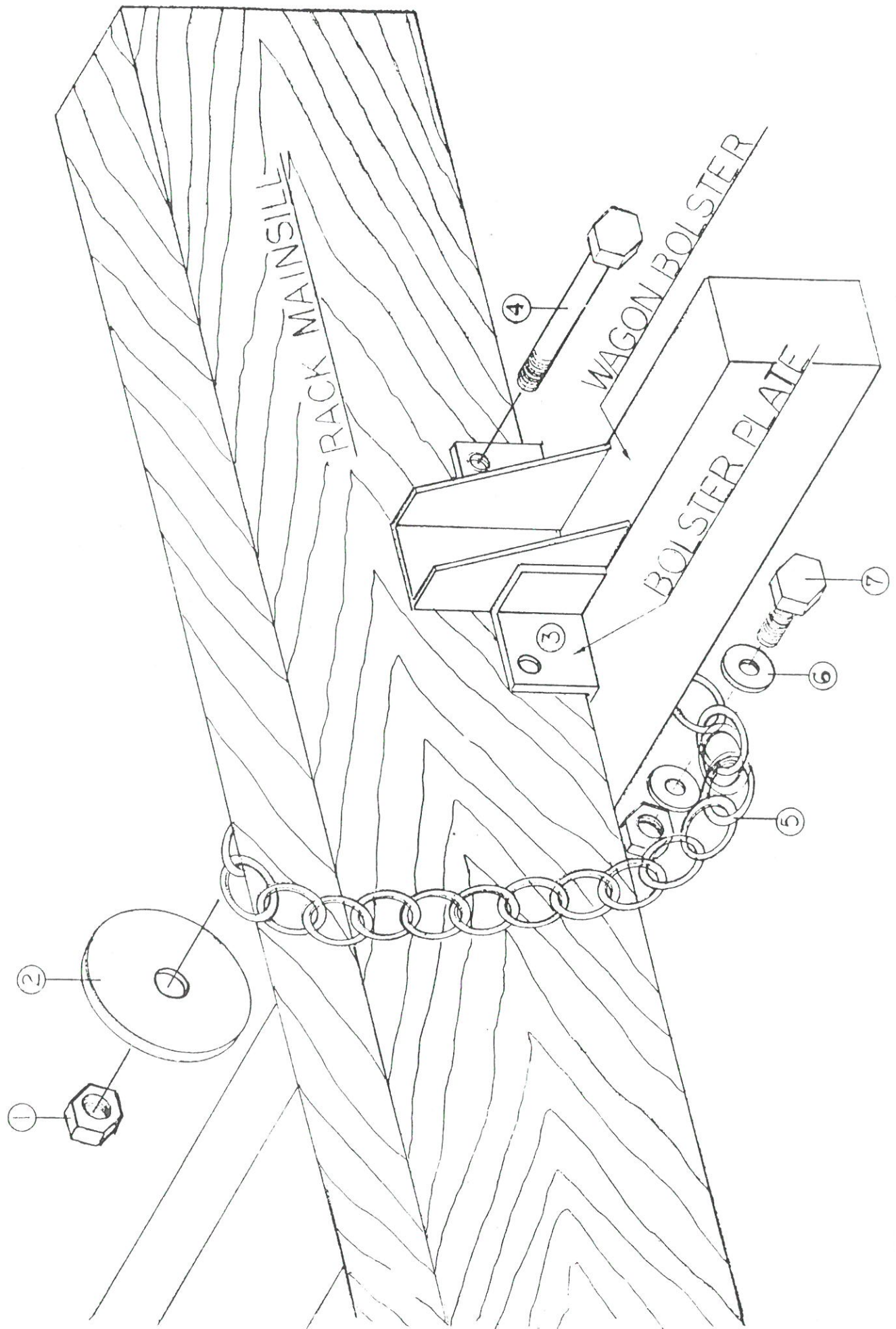
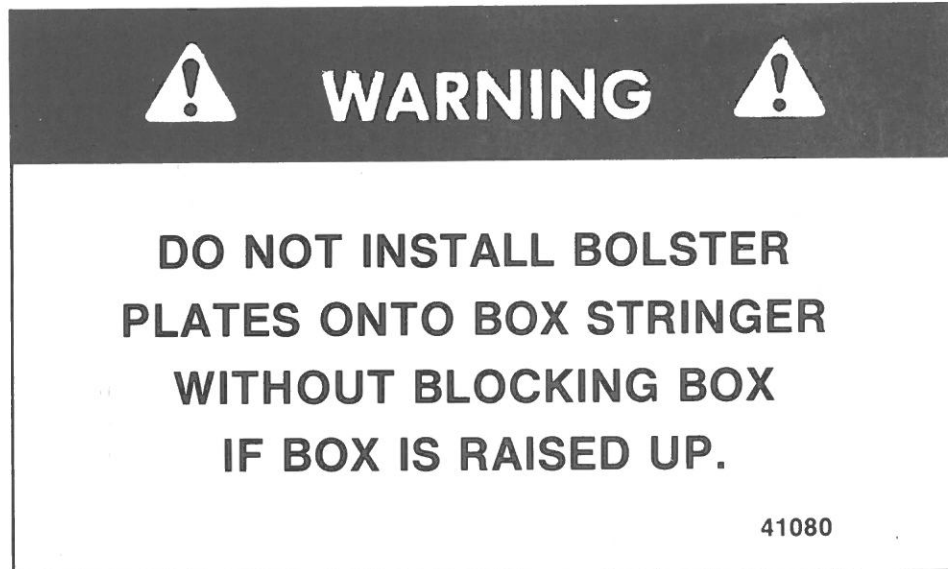


FIGURE 8
BOLSTER PLATES AND TIE DOWN INSTRUCTIONS

ITEM	PART NO.	DESCRIPTION
1	K93	$\frac{3}{8}$ " Lock Nut
2	K135	$1\frac{3}{4}$ " Dia. Washer
3	T1	Bolster Plate 4 x 10 Mainsill
	T2	Bolster Plates 6 x 10 Mainsill
4	T3	Bolt For 4 x 10 Mainsill
	T4	Bolt For 6 x 10 Mainsill
	T4A	Bolt For Steel Frame
5	T5	Chain For 4 x 10 Mainsill
	T6	Chain For 6 x 10 Mainsill
6	X67	$\frac{3}{8}$ " Flat Washer
7	T7	$\frac{3}{8}$ " Bolt For Tie Down Chain
	T8	Tie Down Kit 4 x 10 Mainsill
	T9	Tie Down Kit 6 x 10 Mainsill
	T9A	Tie Down Kit Steel Frame



INSTRUCTIONS

- A) Position bolster plates on wagon bunks with tabs of plate tight against inside of pockets. When properly mounted, the bolster plates will eliminate any forward or rearward movement of the rack.
- B) Set forage box or bale rack on wagon with stringers positioned on bolster plates. (Short lip on plate should be to inside of stringer.)
- C) Drill holes through stringer to correspond to holes in plate. Using $\frac{3}{8}$ " x $4\frac{1}{2}$ ($\frac{3}{8}$ " x 7) ($\frac{3}{8}$ x 1 Gr. 5) bolts, large washers and lock nuts, secure plate to stringer.
- D) Drape tie down chain over stringer and around wagon bunk. CARE SHOULD BE TAKEN TO AVOID INCLUDING FRONT TIE RODS INSIDE CHAIN.
- E) Adjust chain so bolster plate cannot rise above height of stake pocket. Secure chain together using $\frac{3}{8}$ x 1 bolts, two $\frac{3}{8}$ " washers and lock nuts.

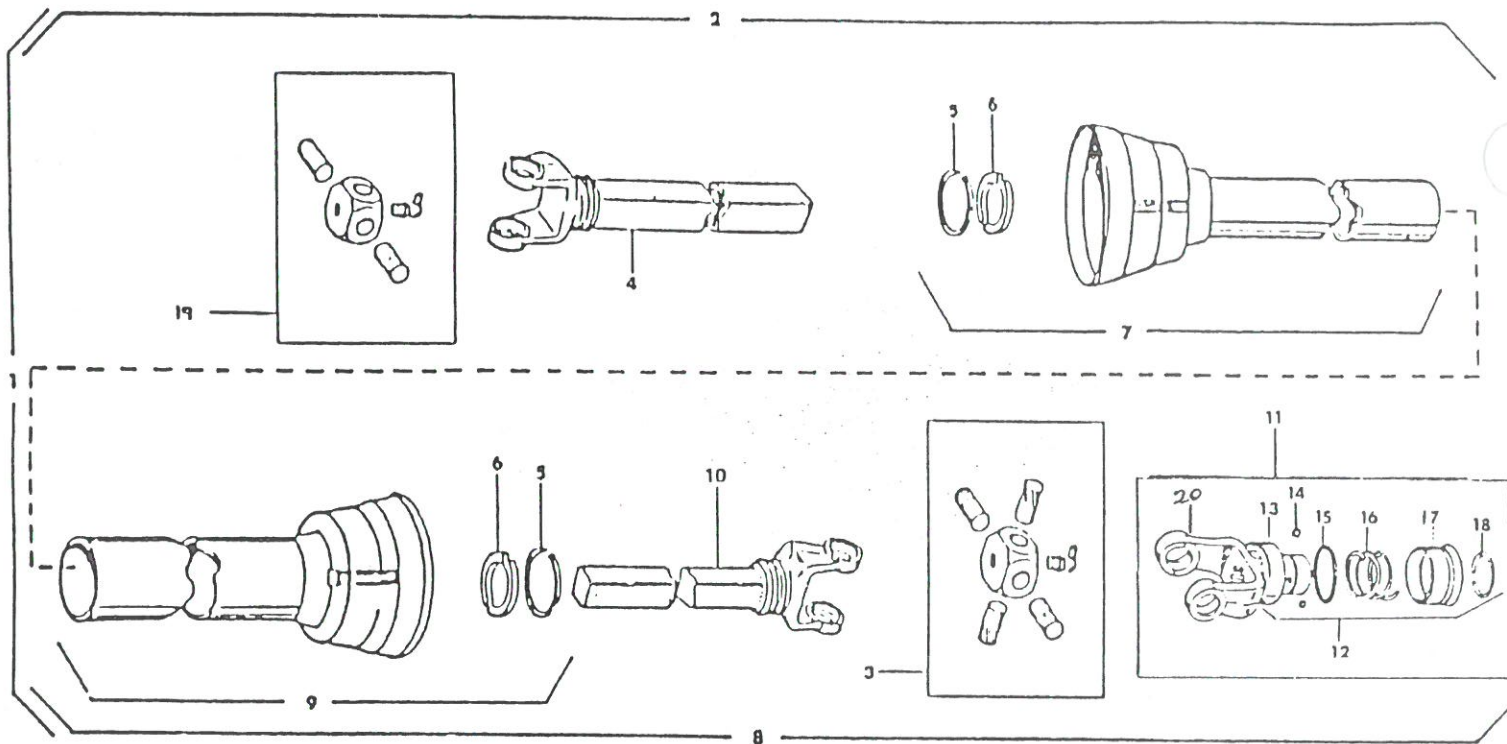


FIGURE 9
PTO PARTS

ITEM	PART NO.	DESCRIPTION
1	S204	W-90 PTO Assembly Complete, Less Clutch (Figure 10)
2	S205	Machine Half PTO
3	"W" KIT	Repair Kit
4	7D426/W1N1	Yoke and Tube
5	24N26	Bearing Retainer
6	S206	Nylon Bearing
7	S207	Inner Guard Incl. Cent. & Item #5 & #6
8	S208	Tractor Half PTO
9	S209	Outer Guard Incl. Item #5 & #6
10	W1N1/9D440	Yoke and Shaft
11	S224	Lock Yoke Assembly
12	S225	Spring Lock Repair Kit
13	S226	Cover
14	S212	Stainless Ball
15	S227	Washer
16	S228	Spring
17	S229	Collar Assembly
18	S215	Retaining Ring
19	W-Kit	W-Repair Kit (2 pins only, use #6 on Figure 10)
20	S230	Clutch Yoke to complete "W" Kit)

SUPER 7 + 4 SPECIFICATIONS

Power	Tractor PTO or Truck PTO—540 RPM or Hydraulic Drive
Feeder Apron Drive	Worm Gear—(Bronze Worm Gear)
PTO Shaft	Telescoping Integral Shielded
Speeds	Complete Variable Speed
Main Aprons	4 Chains—67 T-Rod—16,000 lb. Tensile Strength New Type Conveyor Chain That Is Virtually Maintenance Free
Beaters	3-18" Diameter 4 Spiral Bars
Beater Drive	#50 Roller Chain
Emergency Stop Mechanism	Standard Equip—All Models
Cross Conveyor	#550 Roller Chain w/Angle Cross Stas
Cross Conveyor Drive	Sprocket and #50 Roller Chain
Cross Conveyor Width	22 Inches
Discharge	Right Side Unloading
Inside Length	14'—16'—18'—20'
Inside Width	7 Feet, 4 Inches
Overall Length	17'3"—19'3"—21'3"—23'3"
Overall Width	107"
Overall Height	113"—117"

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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