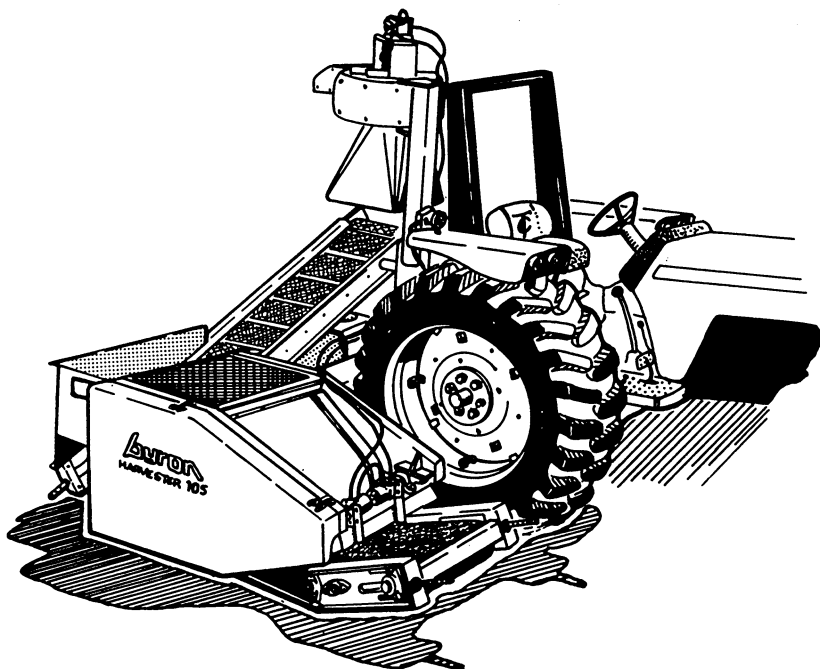


SERIAL NO. 190001 AND UP

# byron®

## 105 ONE ROW, THREE POINT HITCH MOUNTED BEAN HARVESTER



# OPERATORS MANUAL & REPAIR PARTS LIST

Set up, Adjustment & Service Instructions

For the Dealer and Operator, read these instructions & save them for reference

**byron**®

MIDWEST CORP. W. 6960 SILVER CREEK RD., WATERTOWN, WI 53094 U.S.A.

## LIMITED WARRANTY

Byron Enterprises, Inc., warrants its new machines to be free from defects in material and workmanship, under normal use and service, for a period of one (1) year from the date of delivery to the original purchaser, or five hundred (500) hours of operation whichever occurs first.

Upon satisfactory proof of claim, we will, within a reasonable time, at our option replace or repair defective parts free of charge. Charges for transportation, installation, correcting defects or making additions will not be allowed, nor will we accept products returned for credit unless the return or correction is authorized by us in writing.

Warranty claims will not be honored if in the Company's opinion such claim was caused by improper use or adjustment of the machine.

**THE ONLY REMEDY FOR ANY BREACH OF WARRANTY AND THE ONLY REMEDY FOR THE COMPANY'S LIABILITY OF ANY KIND, INCLUDING LIABILITY FOR NEGLIGENCE, WITH RESPECT TO ANY MACHINE, SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF ANY DEFECTIVE PARTS AS STATED ABOVE, AND SHALL IN NO EVENT INCLUDE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

**THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED.**

**BYRON ENTERPRISES INC.**

Box 100

Byron, New York 14422

U.S.A.

**THE FARM and INDUSTRIAL EQUIPMENT INSTITUTE Safety Alert Symbol**



**BE ALERT!** Your Safety is involved.

**THE SYMBOL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS CONCERNING YOUR PERSONAL SAFETY.**



# SAFETY PRECAUTIONS



**TO GUARD AGAINST INJURY TO YOURSELF AND OTHERS, AND DAMAGE TO THE MACHINE OR PROPERTY OF OTHERS, THE FOLLOWING RULES MUST BE FOLLOWED DURING THE OPERATION OF THIS MACHINE:**

## **1. BEFORE OPERATION**

- Install harvester on a tractor equipped with an operator enclosure.
- See that all safety shields and tractor P.T.O. parts are installed and properly secured.
- Be sure tractor P.T.O. is disengaged before starting the tractor engine.
- Make sure there is no one near the machine before starting tractor engine.
- Allow only properly trained personnel to operate this machine. Consult your state labor laws for operator qualifications.
- Never operate farm machinery while under the influence of alcohol or drugs.

## **2. DURING OPERATION**

- Do not stand on or near any part of the harvester while in operation.
- Do not allow anyone to ride on the harvester while in operation.
- Do not allow anyone to ride on the tractor while in operation.
- Keep hands, feet and clothing away from moving parts.
- Never wear loose fitting clothing when operating farm machinery, it may catch in moving parts.
- Use extreme care when operating close to ditches, fences or hillsides.

- Never attempt to remove an obstruction from any part of the harvester while the machine is running.
- Disengage tractor P.T.O. and shut off tractor engine before dismounting the tractor.
- Before attempting to clean, adjust or lubricate the machine, shut off tractor engine and be sure all moving parts have come to a complete stop.
- After servicing, be sure all tools, spare parts or servicing equipment are removed from the machine.

## **3. TRANSPORTING**

- Always place the rear elevator/conveyor in the rear loading position for travelling on public roads.
- Avoid heavily traveled roads.
- Drive at a speed which allows complete control of the machine at all times.
- Check clearance carefully before driving the harvester under electric lines or bridges, and into buildings.
- Use warning devices such as flags, S.M.V. emblem, lights, etc. that are approved for use in your local area when moving equipment over public roads. Keep these warning devices clean and in good working order.



**DEVELOP SAFE OPERATING HABITS FOR YOURSELF AND INSIST THAT ANYONE ELSE OPERATING THIS MACHINE DO THE SAME. REMEMBER...SAFETY IS EVERYONES CONCERN!**

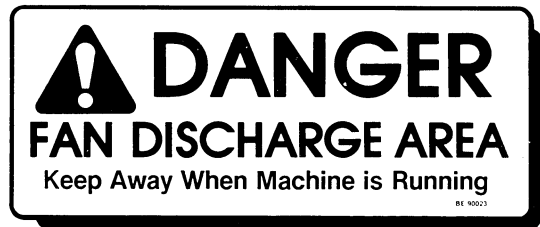


## SAFETY WARNING SIGNS

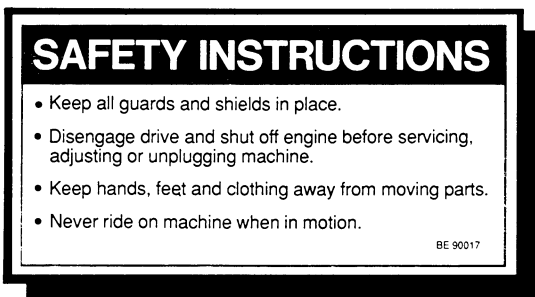
The safety warning signs shown on this page are placed on the machine to warn of hazards. The warnings on these decals are for your personal safety and the safety of those working around you. **OBSERVE THESE WARNINGS!**

The photos show where the safety warning signs are located on the harvester. Keep these signs clean. Wipe them off regularly during the harvest season. Replace them if they become damaged, are missing or painted over. When replacing signs, clean surface thoroughly with a good cleaning solution before placing sign on the machines.

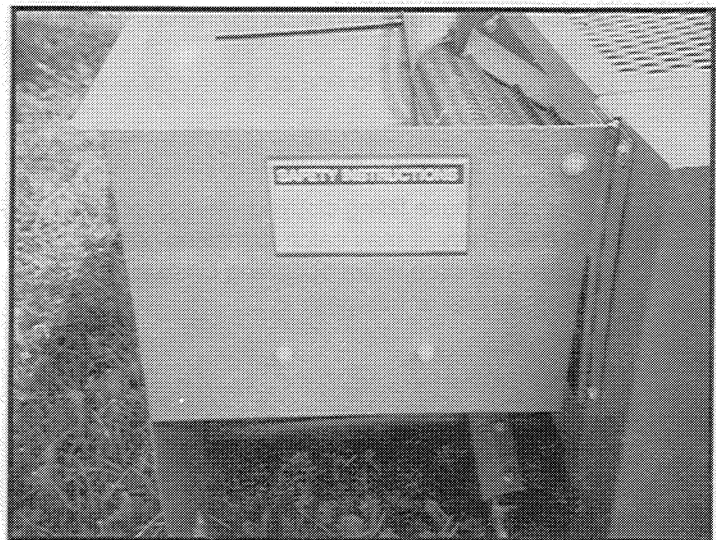
Safety warning signs are available at no charge from your Byron parts department. Order signs by part number per ordering instructions in the repair parts section of this manual.



P/N 90023 (two) Located on both sides of cleaning fan discharge spout to warn of hazard present when material is ejected at high velocity.



P/N 90017 Located on right side of cross conveyor hopper section to warn of hazards associated with moving parts.







## INTRODUCTION

The BYRON 105 Harvester has been designed to provide the small fresh market green bean grower with a mechanical harvester that has most of the advantages of hand picking while offering unmatched speed and convenience.

The 105 Harvester row unit incorporates all of the same high quality features found in the big 2150 green bean header used on our 8600 Agchief self-propelled harvester. A rubber plant aligner belt assures gentle plant infeed while the high-yield steel closed reel with gentle rubber picking fingers minimize damage and loss. The reel cover is lined with slippery polyethylene which helps eliminate abrasion of the product.

The large 24" cleaning fan has a variable speed control to allow the operator to adjust cleaning action to meet changing field conditions.

The 105 Harvester is intended to be fully mounted on most category II three point hitch equipped tractors of 60 HP or more.

## TABLE OF CONTENTS

Warranty .....	Page 2
Safety Precautions .....	Page 3
Safety Warning Signs .....	Page 4
Introduction .....	Page 5
Uncrating, Assembling and Mounting .....	Page 6-10
Initial/Annual Start-up and Checks .....	Page 10, 11
Operating the Harvester .....	Page 11
Adjustments .....	Page 11-13
Lubrication .....	Page 13-15
Ordering Repair Parts .....	Page 16
Repair Parts Section .....	Page 17-37
Numerical Parts Index .....	Page 38-39

## UNCRATING, ASSEMBLY AND MOUNTING THE HARVESTER

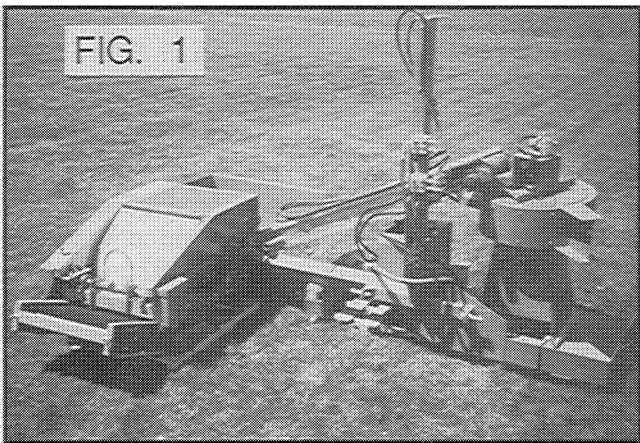
Read and understand these instructions thoroughly before beginning assembly.



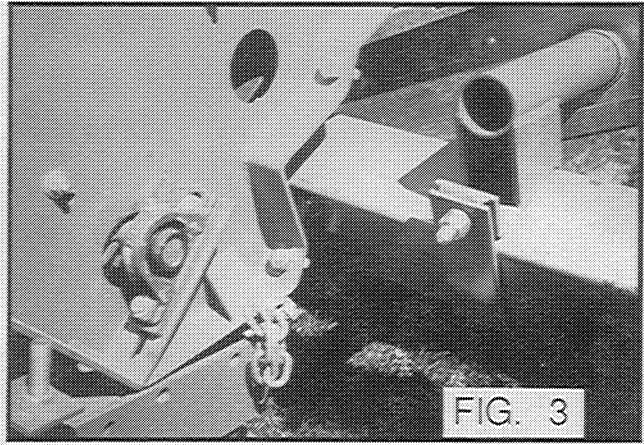
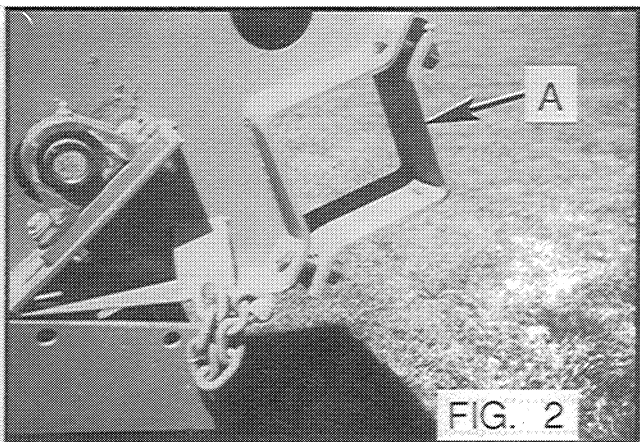
**READ AND UNDERSTAND TRACTOR OPERATOR'S MANUAL THOROUGHLY BEFORE ATTEMPTING TO INSTALL THIS ATTACHMENT. KEEP PERSONS NOT INVOLVED IN THE ASSEMBLY OF THIS MACHINE AWAY DURING ASSEMBLY - ESPECIALLY CHILDREN!**

**ESPECIALLY CHILDREN!**

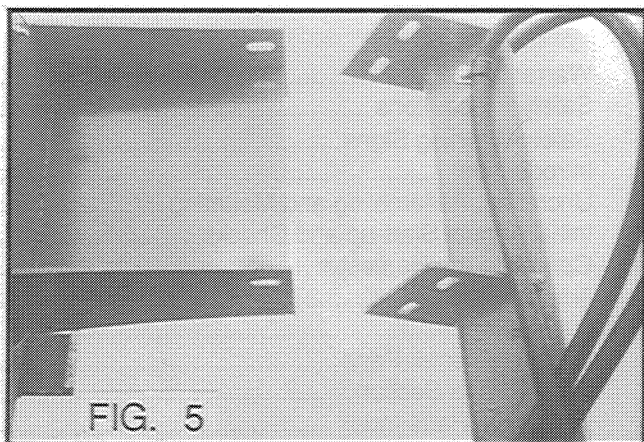
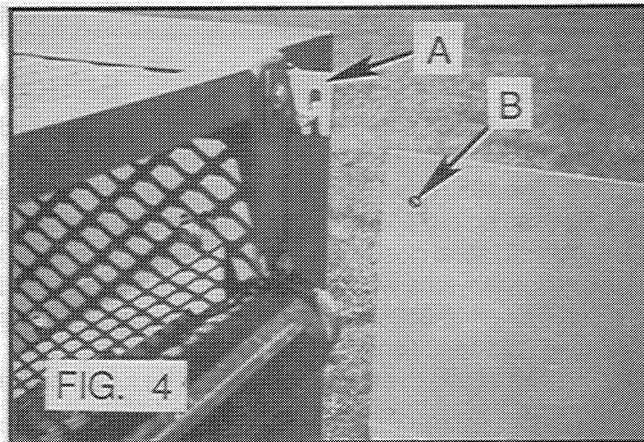
Your new Byron 105 Harvester has been shipped in two parts, one pallet with the row unit and one skid with the main frame and cleaning fan. Before starting assembly, make sure you have plenty of room to assemble the harvester and to maneuver the tractor in and hook up to the harvester when ready. If you're doing this outside, make sure you're on firm, level ground.



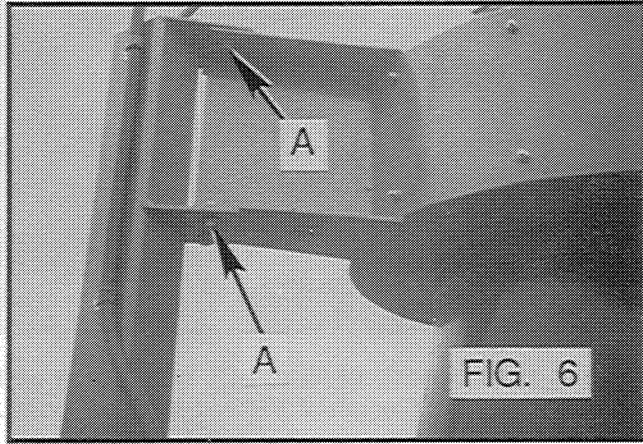
Position the two pallets so that the rear of the row unit is lined up with front outer end of the frame tube as shown in FIG. 1. Remove the two row unit clamps (FIG. 2-A) from



the rear of the row unit and slide the row unit back until mates with the square frame tube as shown in FIG. 3. Re-install the two row unit clamps around the tube with the spacer on the clamp at the top. Slide the row unit sideways on the tube so the small tab on the rear of the row unit (FIG. 4-A) lines up with a mating hole in the top corner of the cross conveyor hopper (FIG. 4-B). Remove bolt from tab and re-install with the hopper panel outside of the tab. Tighten bolt. Next tighten all eight bolts on the row unit clamps.



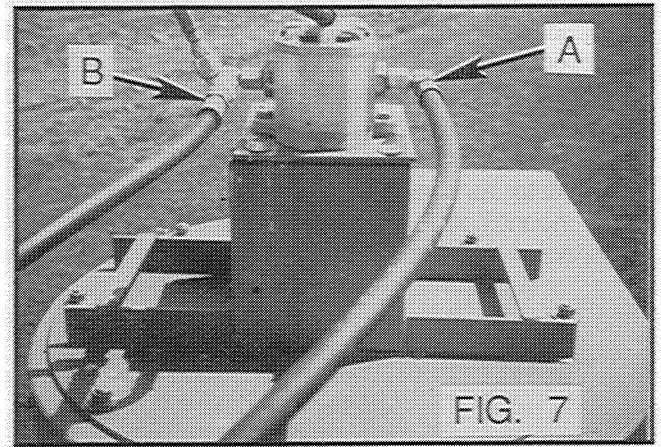
The fan support mast has been shipped in a horizontal position. Loosen the bolts and pivot the mast up into the vertical position. Install sixteen 1/2"-13 x 1" hex bolts, nuts and lockwashers and tighten.



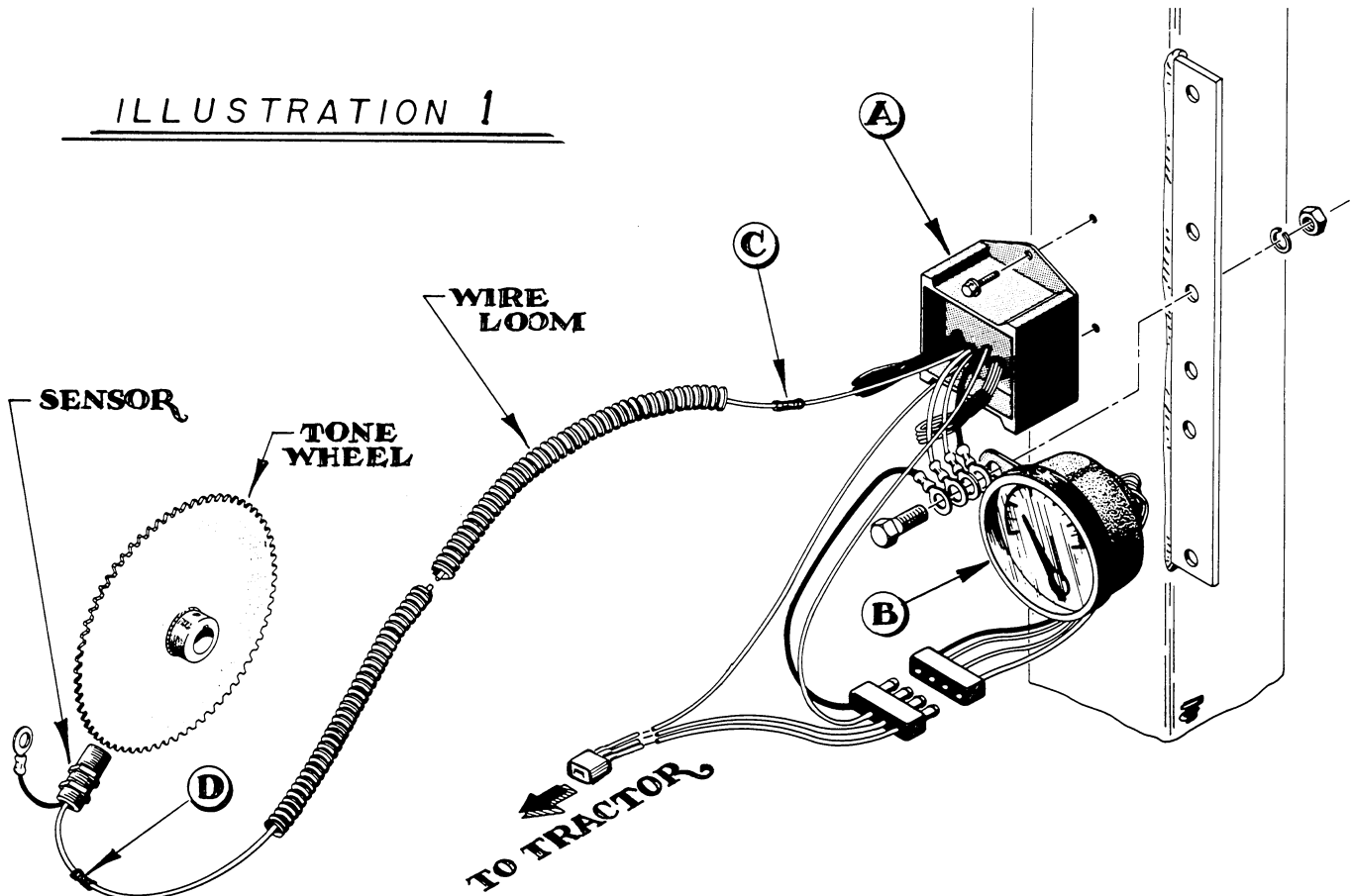
Remove the strapping holding the cleaning fan to the platform. Lift the fan up into the operating position (FIG. 5). Fasten fan to mast with four 1/2"-13 x 1" grade 8 Hex serrated flange self-locking bolts, and self-locking nuts (FIG. 6-A).

Next take the two hoses that run up the mast and route them to the fan drive motor as shown in FIG. 7. The hose on the front side of the mast which runs from the flow control valve should be connected to the single elbow (FIG. 7-A) on the motor. The hose that runs up the rear of the mast from the hydraulic tank should be connected to the tee (FIG. 7-B) on the motor.

The two hoses that run down the front edge of the cross conveyor power the row unit drive motors. The hose that

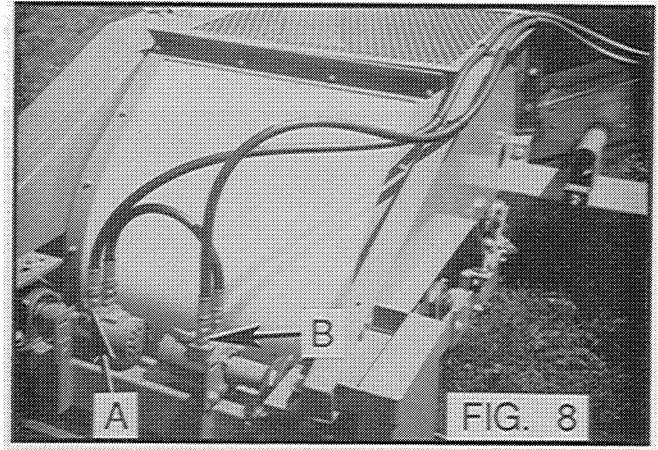


## ILLUSTRATION 1



runs from the cross conveyor drive motor should be connected to the picking reel / live belt drive motor at FIG. 8-A. The other hose, which runs from the lower flow control valve, should be connected to the plant aligner belt / concave roller drive motor at FIG. 8-B. Three sets of clamps are provided to hold the hoses in place along the L.H. edge of the row unit frame (FIG. 8-C). Locate a hole for each and fasten with a 5/16" bolt.

A tachometer kit to monitor picking reel speed has been shipped with the harvester. Using two self-tapping screws supplied with the kit, mount the signal conditioner on the front of the mast between the two flow control valves as shown in Illustration 1-A. Use one of the remaining holes in the mast between the flow control valves to mount the tachometer as shown in Illustration 1-B. Note that the tach mount bolt is used as a ground for the system. Connect twelve foot length of 14 Ga. yellow wire to yellow



lead on signal conditioner (Illus. 1-C). Insert yellow wire through twelve foot length of 3/8" wire loom as shown. Make wiring connections as shown in Illustration 2.

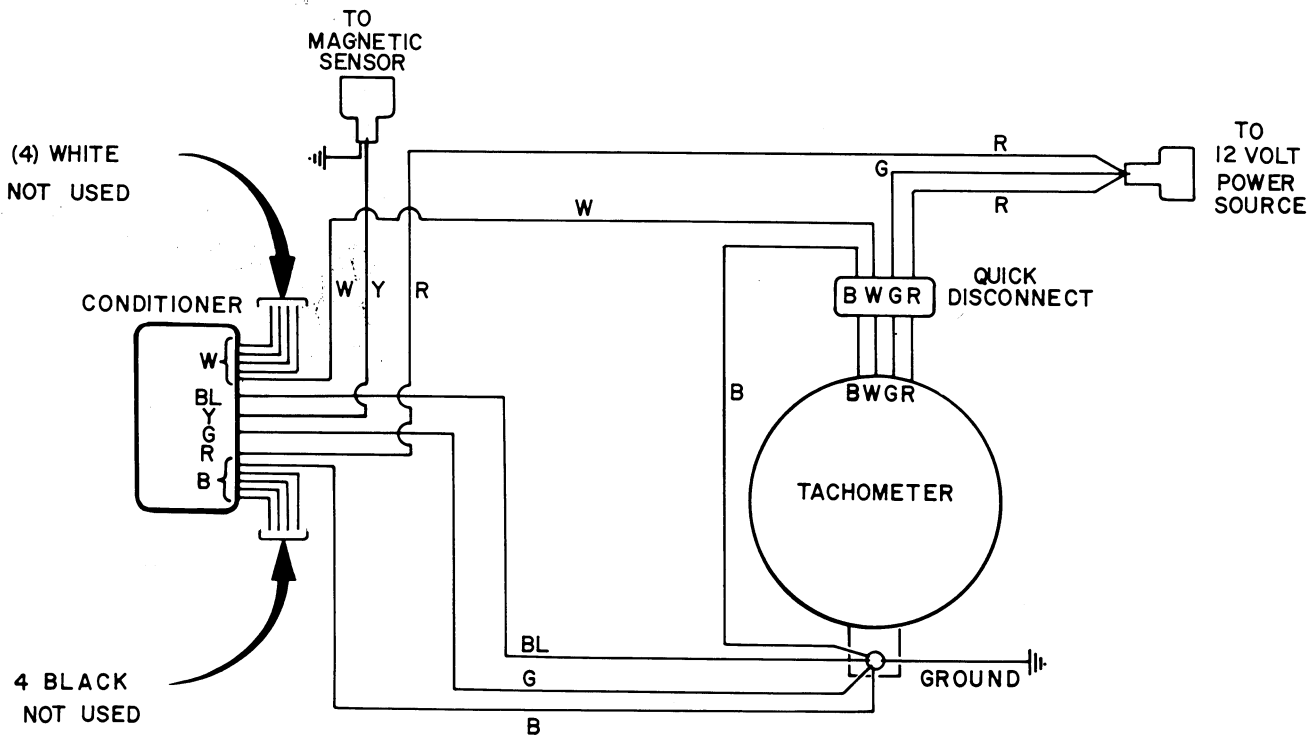


ILLUSTRATION 2

WIRE COLOR CHART

- B - BLACK
- G - GREEN
- BL - BLUE
- R - RED
- W - WHITE
- Y - YELLOW



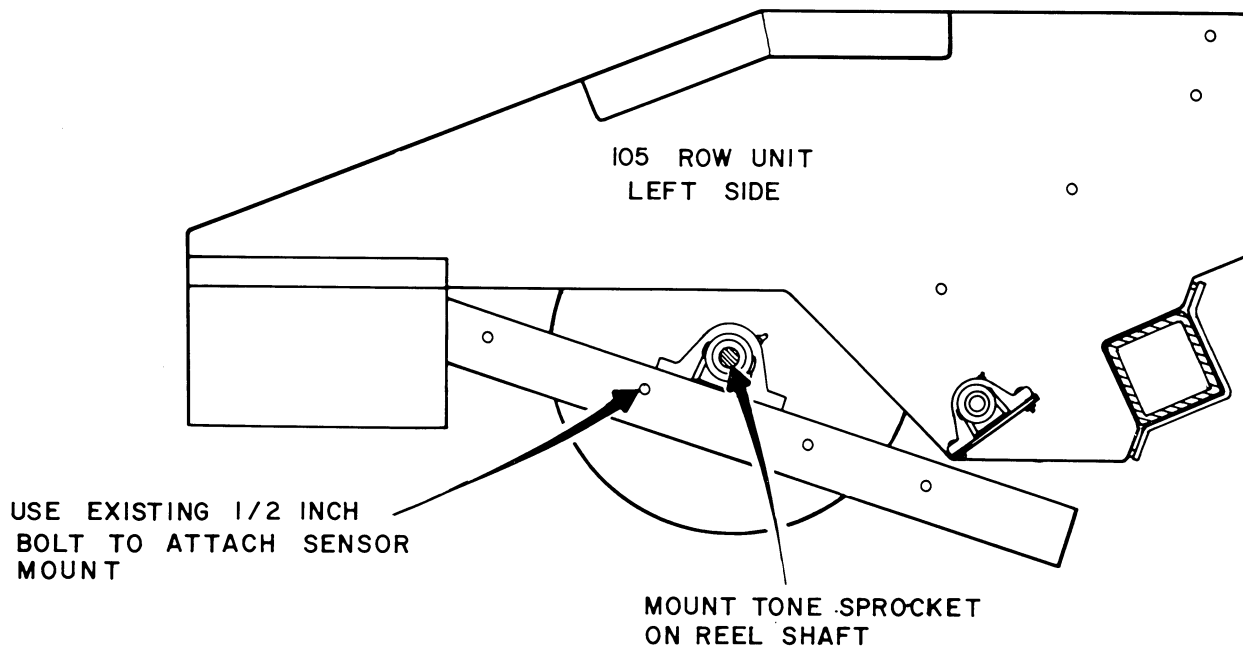


ILLUSTRATION 3

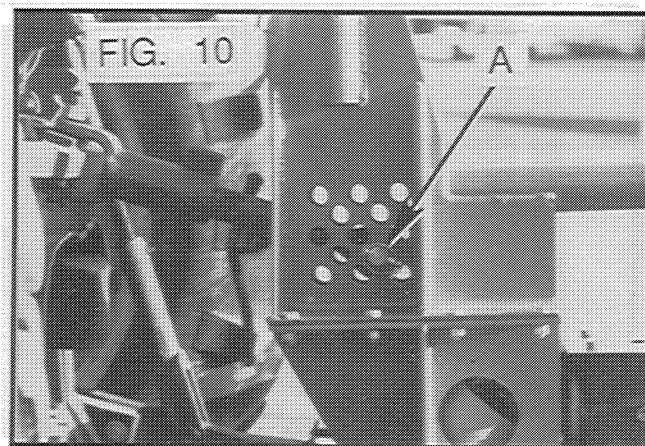
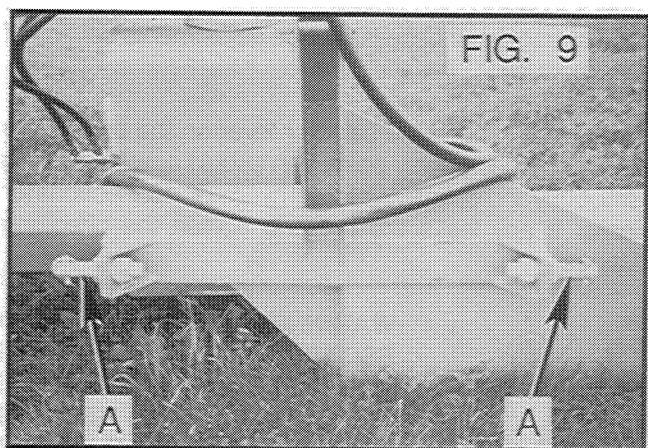
Mount tone sprocket to end of reel shaft as shown in Illustration 3-A. Use existing 1/2" bolt (Illus. 3-B) to fasten sensor mount to frame. Adjust sensor so there is 1/8" clearance between the end of the sensor and the tone sprocket teeth. Attach end of twelve foot long yellow wire from the conditioner to the sensor output wire. Sensor ground wire must be connected to the sensor mount bolt. Use wire tie wraps to secure wire loom to the frame between the sensor and conditioner.

Double check all fasteners and hose connections, then back the tractor in so that the two lower arms of the three point hitch are lined up with the two lower draw pins (FIG. 9-A) on the harvester frame. Connect the two lower arms to draw pins and secure with lock pins.



**USE CAUTION WHEN WORKING ON MACHINE WHILE IT IS RAISED OFF THE GROUND. ALWAYS PLACE A BLOCK OR JACKSTAND UNDER THE HARVESTER FRAME TO AVOID THE POSSIBILITY OF THE MACHINE LOWERING UNEXPECTEDLY.**

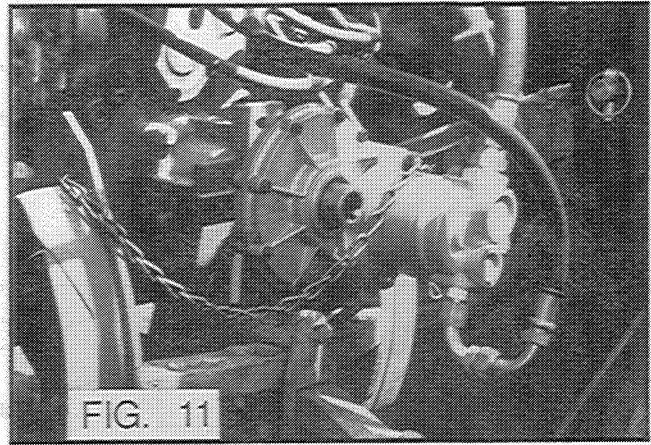
**ALWAYS DISENGAGE THE P.T.O. AND SHUT DOWN THE TRACTOR ENGINE WHEN WORKING ON THE MACHINE.**



A 12 volt power source (from the tractor) must be provided to power the tachometer circuit (see Illus. 1).

Adjust top link so it will line up with one of the pairs of holes in the lower mast as shown in FIG. 10-A and pin the top link in place. Start the tractor and slowly raise the harvester off the shipping pallets and remove the pallets. Continue to raise the harvester and watch the mast. Ideally the mast should remain vertical throughout its range of travel. Unfortunately, there are a wide range of three point hitch designs among the various manufacturers. If you discover that the mast does not remain vertical when raising the harvester frame, it is going to be necessary to experiment with the top link pivot point. Always start with the harvester frame sitting on the ground and blocked up perfectly level. Remove the pin from the top link and adjust the length of the top link to line up with one of the holes next to the hole that you started with. Continue to try different holes until you find one which allows the mast to remain vertical throughout its range of travel.

The final step is to install the hydraulic pump to the 540 R.P.M. tractor P.T.O. Slide the pump onto the P.T.O. shaft with the main body of the pump to the right as shown in FIG. 11 and tighten set screws. Find a secure



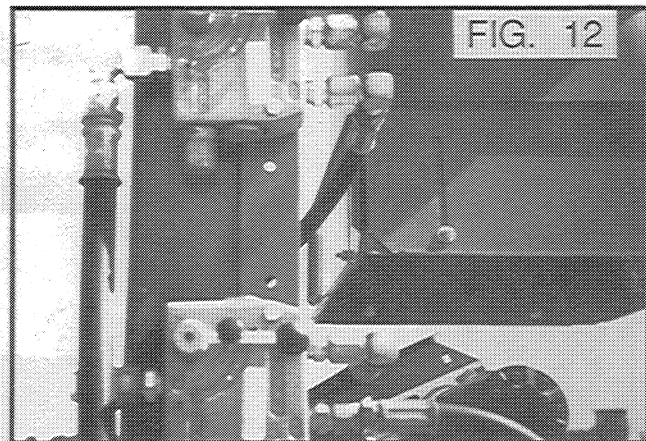
point on the tractor to fasten the pump anti-rotation chain. Pull the chain tight and connect with a quick link to prevent the chain working loose.

The installation is now complete and the harvester is ready to start up.

### INITIAL/ANNUAL START-UP AND CHECKS

Before running the 105 Harvester, read through the lubrication section of this manual. Make sure the machine is lubricated as specified. Make sure that no one is on or near the harvester, then start the tractor engine.

Place the speed selector levers on the flow divider valves in the position shown in FIG. 12. The lower flow divider controls the speed of the row unit and cross conveyor. The upper flow divider controls the speed of the cleaning fan.



Engage the tractor P.T.O. drive and slowly move the selector lever on the lower flow divider to about midway (position #5). The row unit reel will begin to turn as will the live belt, plant aligner belt and cross conveyor belts.

The conveyor belts have been adjusted for proper tracking at the factory. However, while conveyors are running, check to see if both conveyor belts are tracking properly. Adjust tracking if necessary (see adjustments section of this manual).

Next slowly move the selector lever on the upper flow divider to the midway point. Fan should now be running smoothly and quietly. Watch all hydraulic connections for leaks. If any leaks are present, tighten the offending fittings.



**WARNING: HYDRAULIC FLUID ESCAPING UNDER HIGH PRESSURE CAN PENETRATE THE SKIN, CAUSING SERIOUS INJURY. IF ANY FLUID IS ACCIDENTLY INJECTED UNDER THE SKIN, IT MUST BE SURGICALLY REMOVED BY A**

**DOCTOR WITHIN A FEW HOURS OR GANGRENE MAY RESULT.**

Further settings of the flow dividers for field operation are covered in the "Operating The Harvester" section of this manual.

### OPERATING THE HARVESTER

Before going to the field to begin harvesting, check to make sure that the harvester conforms to the following conditions to assure proper operation and maximum safety.

1. Harvester is mounted on the tractor with the mast staying in a vertical position throughout the range of vertical travel you will be harvesting at.
2. Harvester is level with the ground when viewed from the rear.
3. Harvester is properly lubricated and adjusted.
4. Hydraulic and mechanical components are operating normally.
5. All guards and shields are in place.

### STARTING OUT/OPENING UP THE FIELD

Now that you are harvesting mechanically, you may want to plant your crop with open roadways between varieties or plantings to make room for the tractor and harvester and possibly a trailing wagon. Otherwise, hand pick enough rows to make a roadway for the tractor.

When starting out, select a gear on your tractor which will allow you to move at about 3/4 mile per hour and still maintain sufficient P.T.O. speed to run the hydraulic system. Picking reel speed should be between 125-150 R.P.M. on the tachometer. Lower the row unit so that the picking fingers are between one and three inches above the ground. Cleaning fan speed should be set at the point where the desired cleaning action is achieved.

After harvesting a short distance on the first row, stop the tractor, disengage the P.T.O. and inspect the harvested beans. If you find broken beans it is an indication that reel speed is too high. If there is excessive trash in the load, fan speed may be too slow or you may be forcing too much material into the unit in which case it will be necessary to slow tractor ground speed to reduce the volume of crop coming into the harvester.

Also examine the row you have just picked, if you are missing some beans it indicates that reel speed is too slow or the picking fingers are too high above the ground.

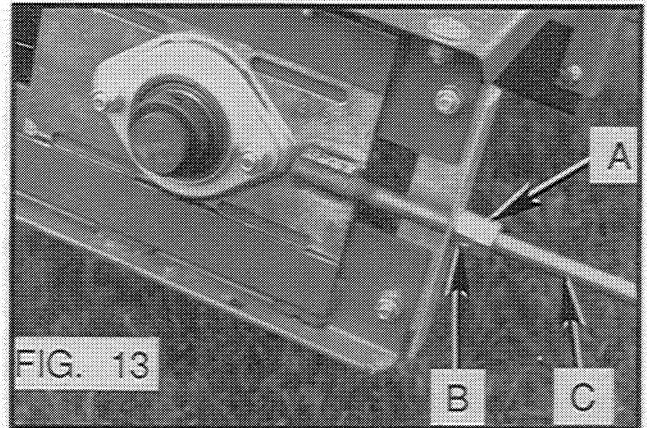
After making adjustments (see adjustments section) to remedy any problems observed in the first attempt, resume harvesting for a short distance, stop and inspect the product as before and continue to adjust as necessary to obtain optimum performance from the harvester.

## ADJUSTMENTS

### BELTS AND CONVEYORS

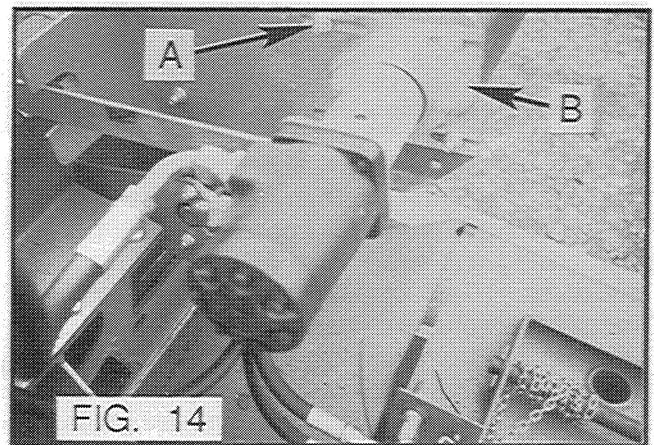
All of the belts have been test run at the factory and adjusted for proper tension and tracking.

Tension on all belts should be tight enough to keep the belt from slipping but not overly tight as unnecessary belt stretch will occur.

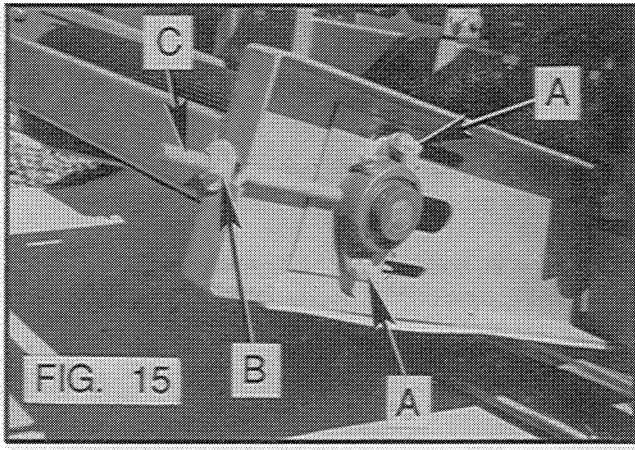


Tension on the cross conveyor is adjusted by loosening the jam nuts (FIG. 13-A) and turning the adjusting nuts (FIG. 13-B) on the adjuster studs (FIG. 13-C) on the adjuster end of the conveyor.

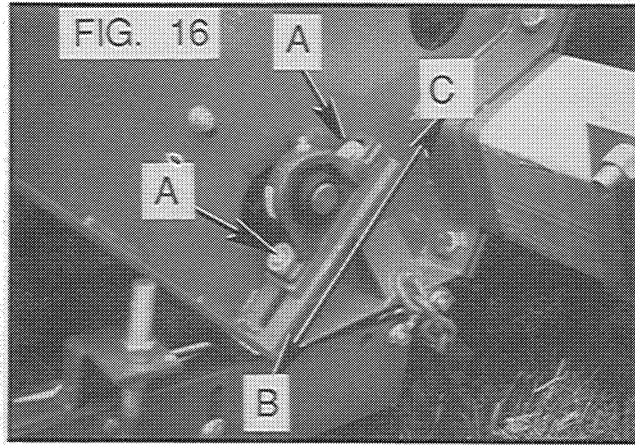
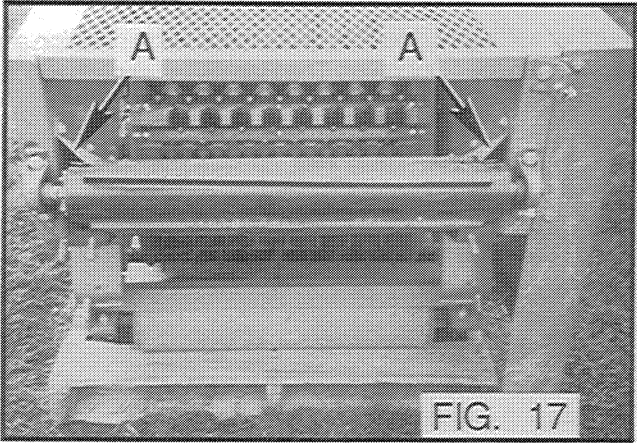
Tracking on this end of the conveyor is also adjusted with these same studs. Only a small amount of movement is necessary here to adjust tracking. Each conveyor belt should run on the crown (in the center) of the drive and idler rolls and not rub on either side of the conveyor trough.



To adjust at the opposite end, loosen nuts (FIG. 14-A) on bearing plate (FIG. 14-B) on the side opposite the side where the belt is rubbing and allow the bearing plate to move toward the opposite end slightly. Re-tighten nuts.



Plant aligner belt tension is adjusted by loosening the bearing plate nuts (FIG. 15-A). Turn adjusting nuts (FIG. 15-B) on adjuster studs (FIG. 15-C) to achieve desired belt tension. Tracking is also adjusted with these same adjuster nuts so that when adjusting tension, be sure that proper belt tracking is maintained. Only a small amount of movement is necessary to adjust tracking. Adjusting nuts should be tightened against both sides of the frame flange when adjustment is complete. Re-tighten bearing plate nuts.



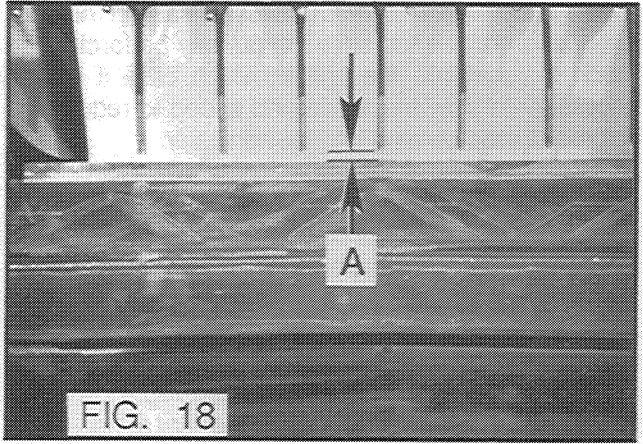
Live belt tension is adjusted by moving the bearings (FIG. 16) on the lower belt drive roll. Loosen nuts (FIG. 16-A) on each bearing and move down (FIG. 16-B) to increase tension, up (FIG. 16-C) to decrease tension. Tracking is also adjusted in the same manner. The belt should ride on the crown (in the center) of both the drive and idler rolls and not rub on either side of the housing. When tension and tracking are satisfactory, re-tighten bearing nuts. The live belt also has two adjustable belt seals (FIG. 17-A). The bolts holding the seals to the inside of the frame should be loosened and the seals moved up or down in its slots so there is about 1/16" clearance between the bottom flat surface of the seal and the top of the belt. Tighten all bolts.

**HEADER ADJUSTMENTS**

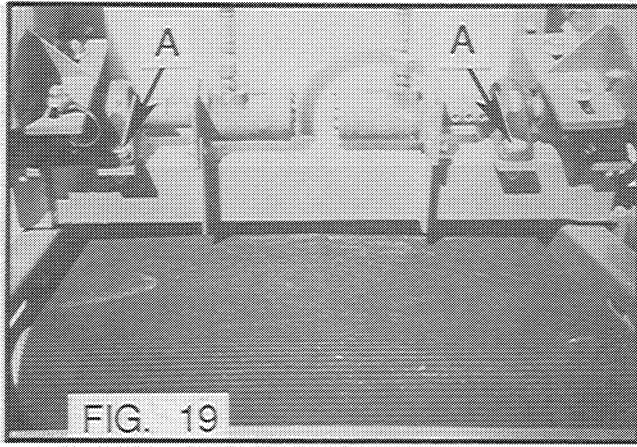
There are three adjustments that can be made in the row unit. The picking finger/live belt distance, picking finger/concave roller clearance and ground roller position relative to plant aligner belt angle.

Begin with the row unit lowered to the ground. Rotate the live belt and picking reel until one cleat on the belt and one row of picking fingers are at their closest point during rotation (FIG. 18-A). This distance should be between 1/4" and 1/2". If adjustment is necessary loosen four pivot bearing bolts (FIG. 19-A) and move the bearings in their slots in the direction necessary to obtain the correct finger/belt relationship. Re-tighten pivot bearing bolts. Live belt drive chain must be re-tensioned after reel frame adjustment.

Picking finger to concave roller clearance should be from 3/8" to 1/2". To adjust this clearance loosen four reel cover bolts (FIG. 20-A) (two each side). Hood mount plate (FIG. 20-B) is slotted so you can move it in either direction to achieve proper clearance. When clearance is set to your satisfaction, re-tighten reel cover bolts.

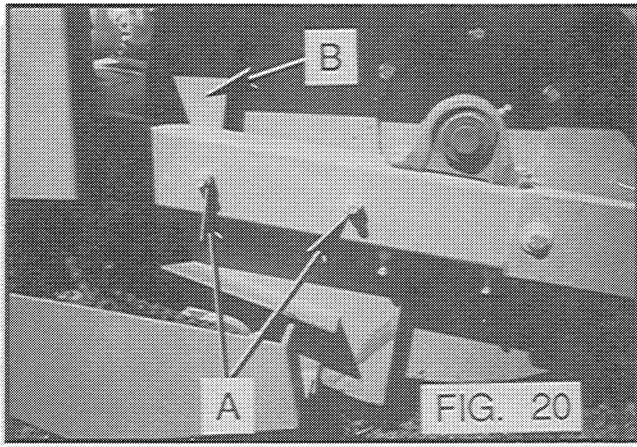






**CAUTION: WHEN WORKING UNDER THE HARVESTER, DISENGAGE PTO, SHUT DOWN TRACTOR ENGINE AND LOCK THE BRAKES. PLACE A BLOCK OR JACKSTAND UNDER THE HARVESTER FRAME SO THE MACHINE CANNOT BE LOWERED UNEXPECTEDLY.**

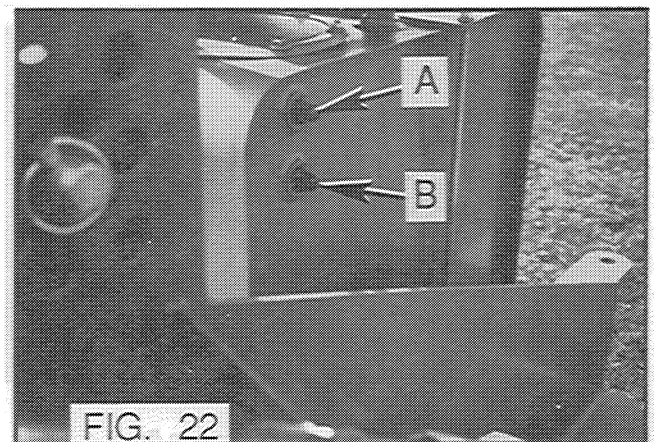
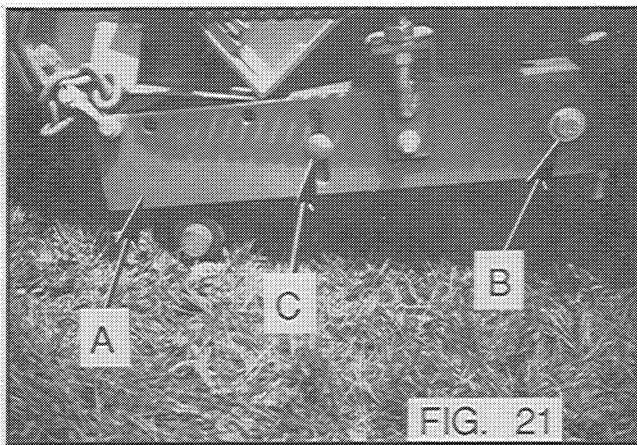
Loosen two mount plate pivot bolts (FIG. 21-B) and two adjustment locking bolts (FIG. 21-C) which will allow the ground roller to pivot up or down. Moving the roller down will decrease the angle of the plant aligner belt, moving the roller up will increase the angle. When angle is satisfactory, re-tighten all bolts.



## LUBRICATION

### HYDRAULIC SYSTEM

The harvester hydraulic tank oil level should be up to the level of the top sight glass (FIG. 22-A) on the side of the tank but no higher. The oil level should never be allowed to fall below the level of the bottom sight glass (FIG. 22-B). The suction strainer inside the tank should be removed and washed annually. The external return filter spin-on element (FIG. 23-A) should be replaced annually. Fill tank with tractor hydraulic fluid which meets or exceeds John Deere specifications.



To change the relationship between picking reel height and plant aligner belt angle it is necessary to adjust the ground roller mount plates (FIG. 21-A). Start the tractor engine and lift the harvester off the ground and proceed as follows:

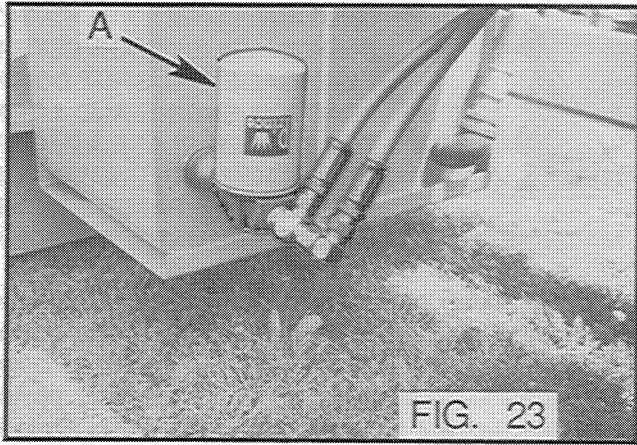


FIG. 23

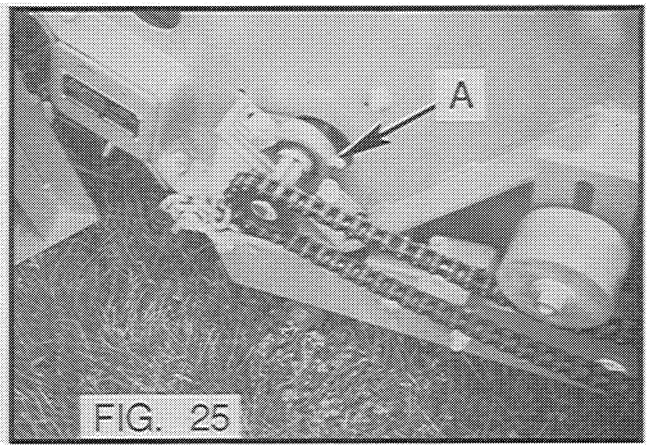


FIG. 25

FIG. 25-A Live belt drive roll bearings (two).

### MOUNTED BEARINGS

There are 22 bearings which require periodic lubrication. Two of these bearings are located on the cleaning fan drive shaft. All the rest are located on the row unit. Bearings should be lubricated twice weekly or after 30 hours of operation, whichever occurs first. A good grade of multi-purpose grease should be used. The following photos point out the location of these bearings:

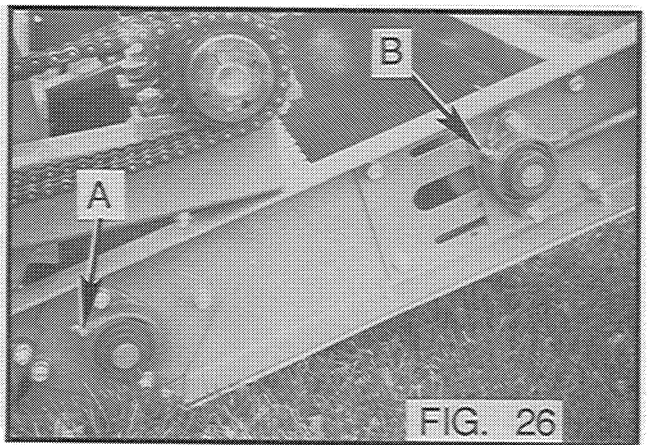


FIG. 26

FIG. 26-A Plant aligner belt drive roll bearings (two).

FIG. 26-B Plant aligner belt idler roll bearings (two).

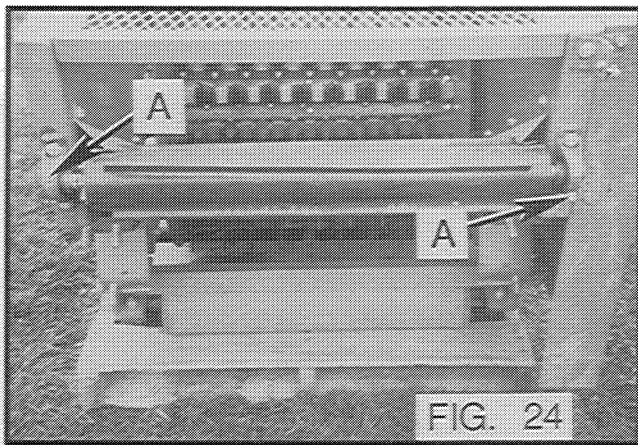


FIG. 24

FIG. 24-A Live belt idler roll bearings (two).

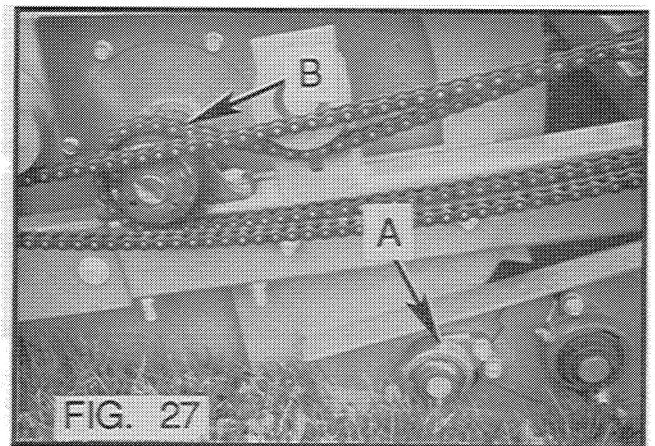


FIG. 27

FIG. 27-A Concave roller bearings (two).

FIG. 27-B Picking reel bearings (two).

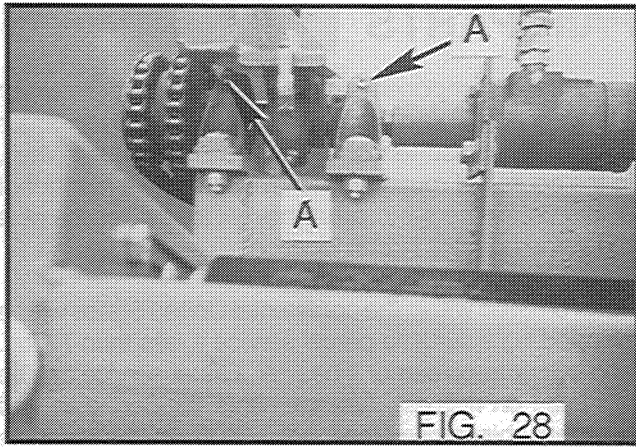


FIG. 28-A Pivot shaft bearings (four).

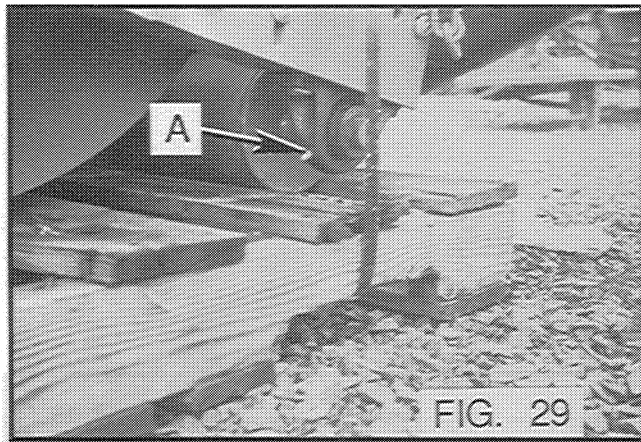


FIG. 29-A Ground roller bearings (two).

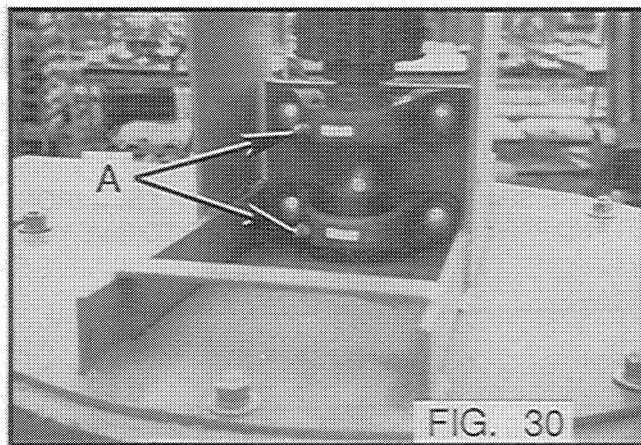


FIG. 30-A Cleaning fan shaft bearings (two).

### ROLLER CHAINS

There are 5 roller chains on the 105 Harvester that require oiling at least twice per week. Always keep roller chains free of dirt and trash. The following photos point out the location of each of these chains:

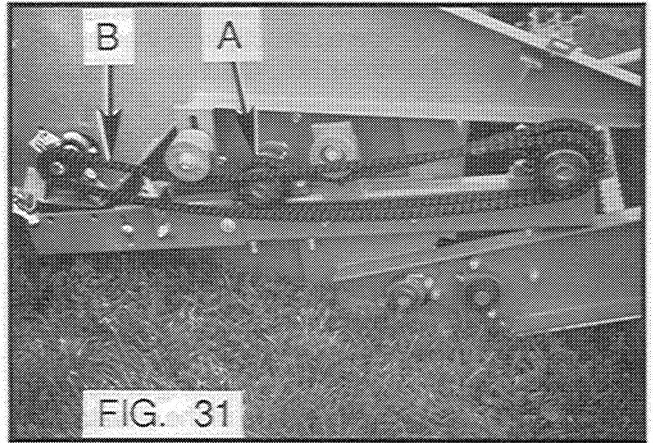


FIG. 31-A Picking reel drive chain.

FIG. 31-B Live belt drive chain.

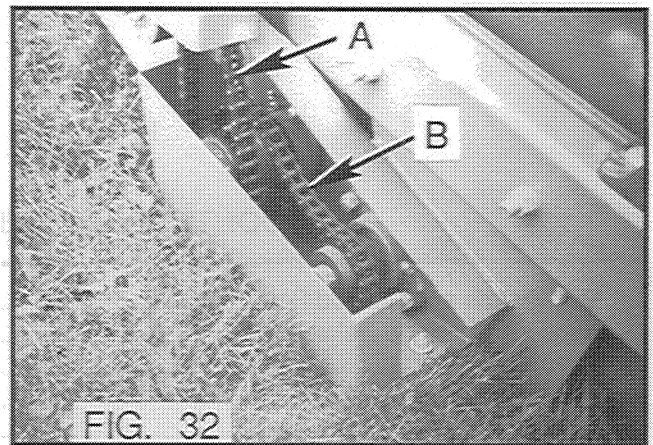


FIG. 32-A Plant aligner belt drive chain.

FIG. 32-B Concave roller drive chain.

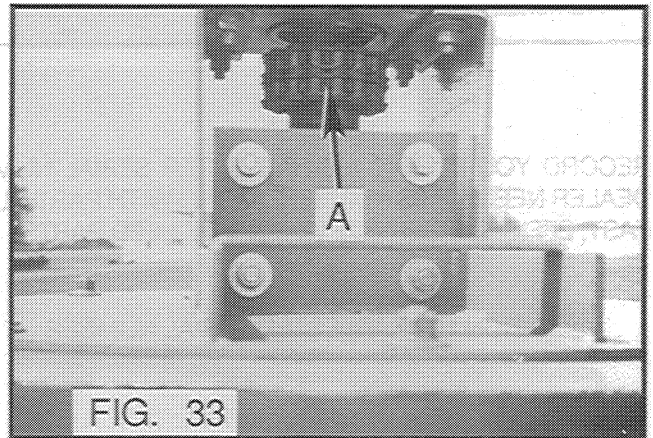


FIG. 33-A Cleaning fan drive coupling chain.



# ORDERING REPAIR PARTS

The BYRON 105 Harvester is designed and built with top quality agricultural grade components. We recommend that repair/replacement parts for the 105 harvester be obtained from a BYRON Harvester dealer. If not available locally, parts may be ordered directly from the manufacturer at W. 6960 Silvercreek Rd., Watertown, Wisconsin 53094. Telephone (414) 261-3147, Fax (414) 261-4570. Or from three regional warehouses located at 7275 Batavia-Byron Rd., Byron, New York 14422. Telephone (716) 548-2665, Fax (716) 548-2599, or at 10480 Brill Rd., Emmett, Idaho 83617. Telephone (208) 365-2606, Fax (208) 365-6476, and at 16582 County Road 40, Goshen, Indiana. Telephone (219) 642-4313. Right or left hand parts are determined by standing in back of machine facing in the direction of travel. Right or left hand elevator/conveyor parts are determined by standing at the foot of the elevator facing towards the top of the elevator. The abbreviation "A.R." in the "USED" column means "AS REQUIRED" — The item is used to service a major

assembled component or it is used in numbers which may vary between individual machines, usually to obtain a particular adjustment or dimension at assembly. When, in the course of routine repair disassembly a number of shims, flatwashers, etc. are removed, always reassemble the same quantity in that location.

Parts ordered within the continental United States will be shipped via a suitable parcel service if less than 75 lbs. and by common carrier if heavier. Faster service can be provided on request. Arrangements for Canadian and overseas shipment will be made with the customer at the time of order.

If you have a BYRON part and/or part number and want to know where it is used on your machine refer to the Numerical Parts Index in the back of this manual. Find the page where the part is used, then look for the part number on that page.

## CONTENTS OF REPAIR PARTS SECTION

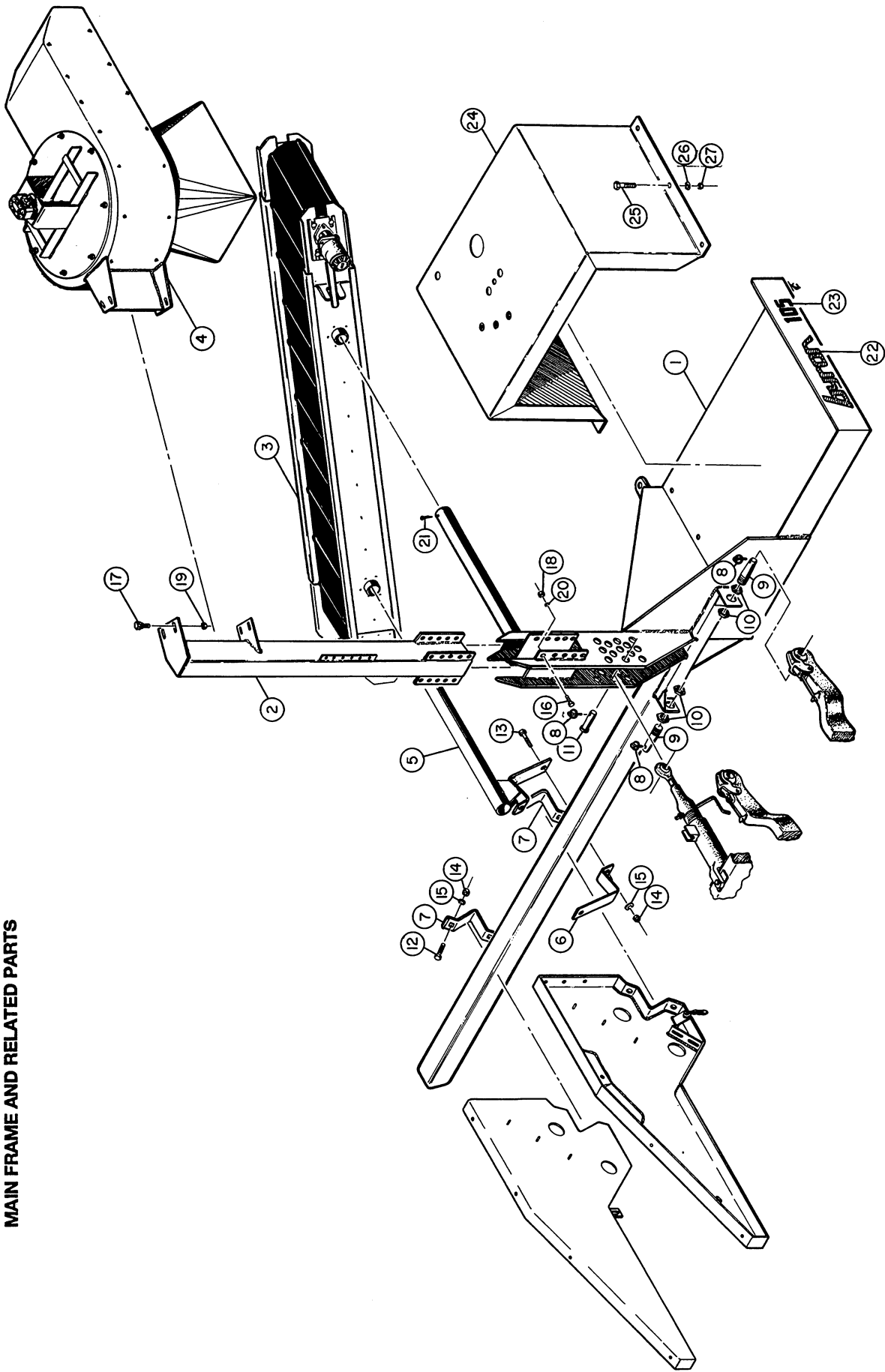
Main Frame and Related Parts .....	Page 18, 19
Header Frame and Related Parts .....	Page 20, 21
Header Drives .....	Page 22 - 25
Hydraulic System .....	Page 26 - 29
Cleaning Fan .....	Page 30, 31
Cross Conveyor .....	Page 32, 33
Optional Elevator/Conveyor .....	Page 34, 35
Optional Winch and Elevator Hanger .....	Page 36
Hydraulic Plumbing for Optional Rear Elevator .....	Page 37
Numerical Parts Index .....	Page 38, 39

RECORD YOUR BYRON 105 HARVESTER SERIAL NUMBER IN THE SPACE PROVIDED BELOW. YOUR BYRON DEALER NEEDS THIS NUMBER, ALONG WITH PART NUMBER AND PART DESCRIPTION IN ORDER TO GIVE YOU FAST, EFFICIENT SERVICE WHEN YOU NEED PARTS.

BYRON 105 HARVESTER SERIAL NUMBER

REPAIR  
PARTS  
SECTION

MAIN FRAME AND RELATED PARTS

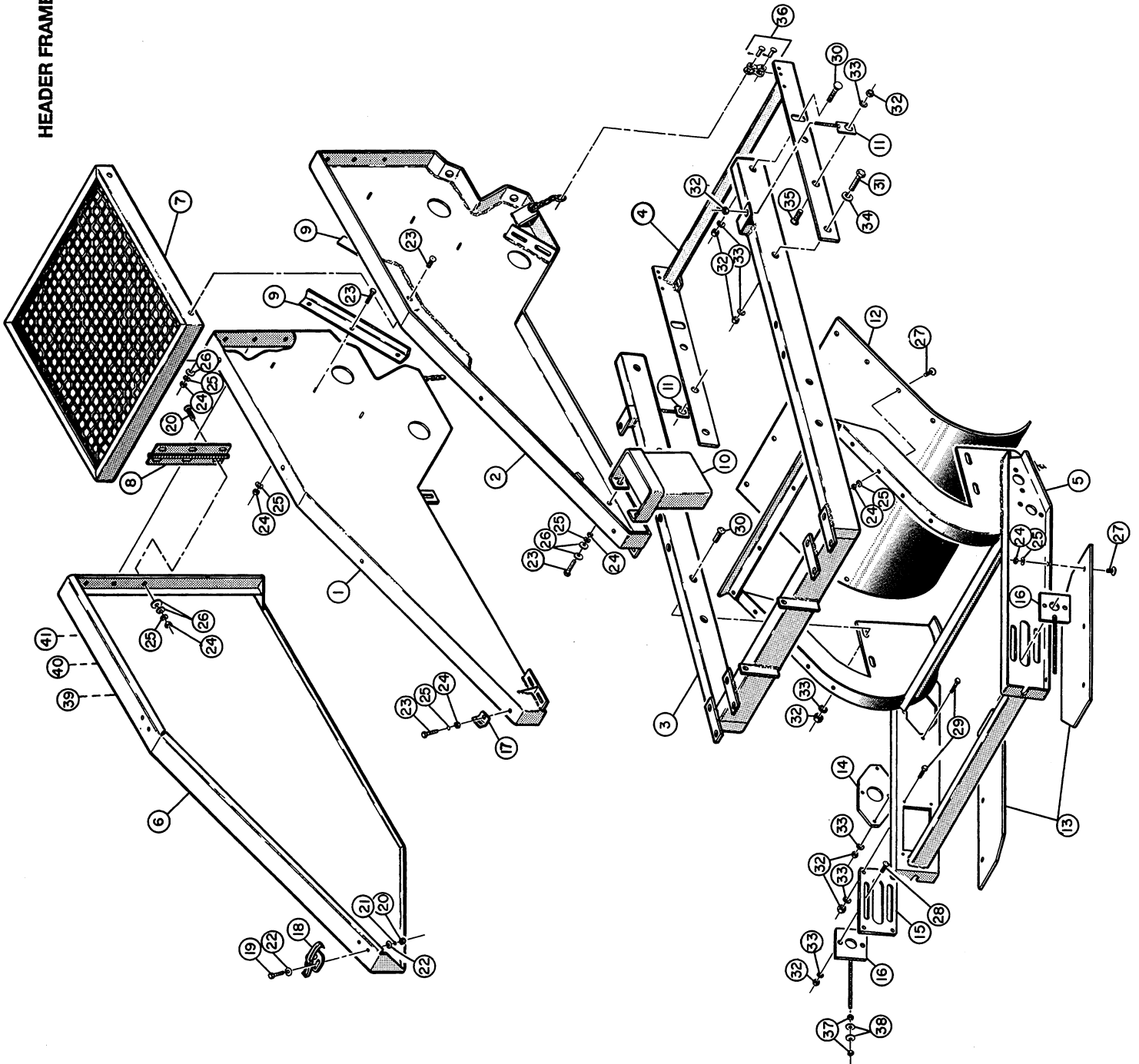


## MAIN FRAME AND RELATED PARTS

KEY	P/N	DESCRIPTION	USED
1	10344	Main frame assembly	1
2	10353	Mast assembly	1
3	—	Cross conveyor (see separate illustration)	1
4	—	Cleaning fan (see separate illustration)	1
5	31784	Lower conveyor mount	1
6	31383	Conveyor mount bracket	1
7	31750	Frame mount bracket	2
8	93784	Lynch pin	3
9	51292	Draw pin, bottom link to frame (includes 93495 nut, 93497 nut and 93586 lockwasher)	2
10	93495	Jam nut, 1 1/8"-10 hex	A.R.
—	93497	Nut, 1/18"-10 hex (not shown)	A.R.
—	93586	Lockwasher, 1 1/8" USS standard wrought (not shown)	A.R.
11	51295	Top link pin	1
12	93106	Machine screw, 5/8"-11 x 2", hex head, grade 5	8
13	93226	Carriage bolt, 5/8"-11 x 2", grade 5	2
14	93457	Nut, 5/8"-11 fin. hex	10
15	93582	Lockwasher, 5/8" USS standard spring	10
16	93080	Machine screw, 1/2"-13 x 1 1/2" hex head, grade 5	16
17	94008	Machine screw, 1/2"-13 x 1 1/2" hex serrated flange, self-locking	4
18	93455	Nut, 1/2"-13 fin. hex	16
19	93525	Nut, 1/2"-13 hex, serrated flange, self locking	4
20	93580	Lockwasher, 1/2" USS standard spring	16
21	93694	Cotter pin, 1/4" x 3"	2
22	90011	Decal, "BYRON" logo	1
23	90181	Decal, "105" model number	1
24	21652	*Rear elevator platform	1
25	93079	*Machine screw, 1/2"-13 x 1 1/4" hex head, grade 5	6
26	93580	*Lockwasher, 1/2" USS standard spring	6
27	93455	*Nut, 1/2"-13 fin. hex	6

\*These parts are optional equipment.

HEADER FRAME & RELATED PARTS

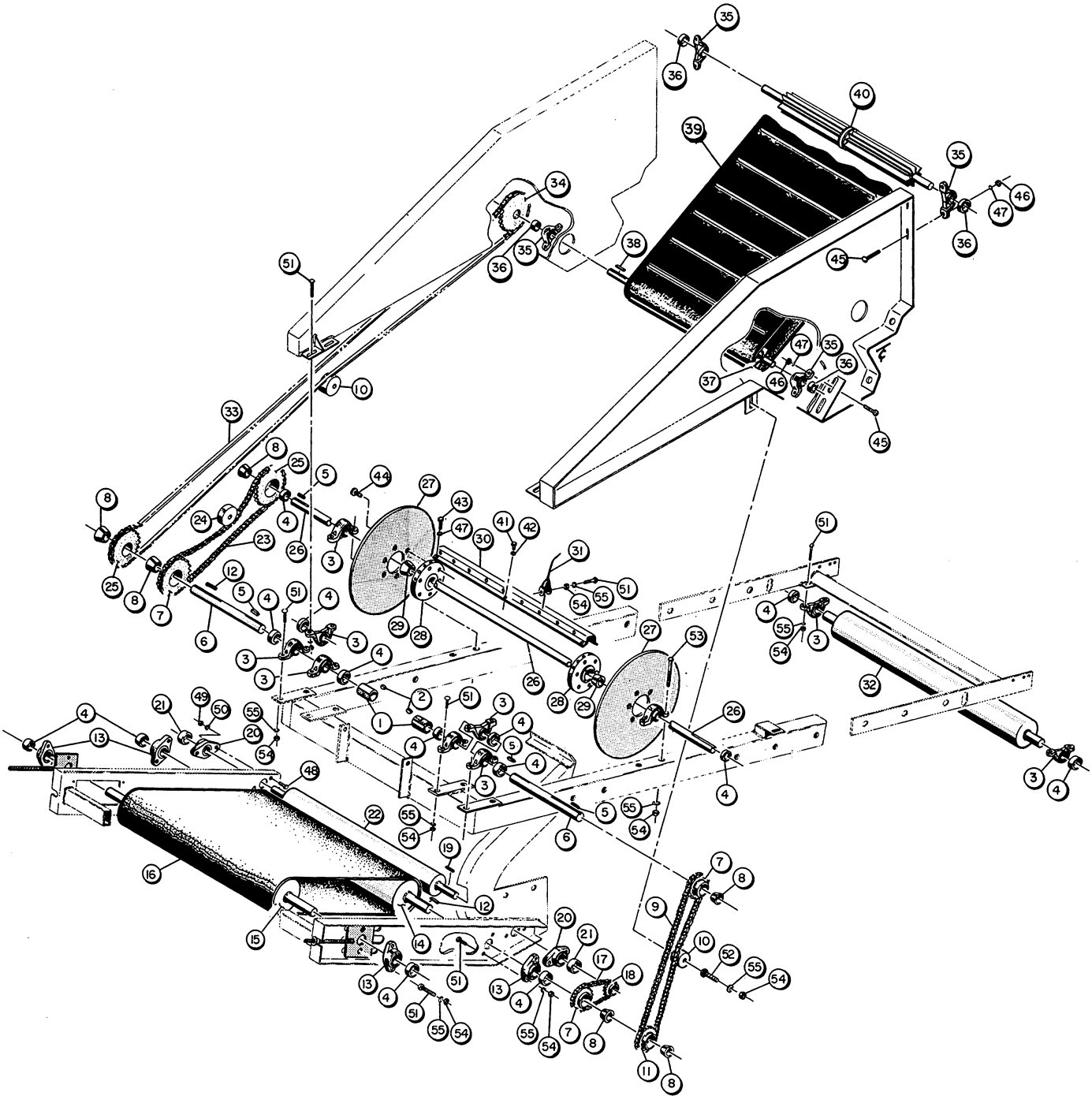




## HEADER FRAME & RELATED PARTS

KEY	P/N	DESCRIPTION	USED
1	31755	Row unit bulkhead, R.H.	1
2	31756	Row unit bulkhead, L.H.	1
3	10347	Reel frame assembly	1
4	31813	Ground roller frame assembly	1
5	31818	Reel cover, plant aligner frame assembly	1
6	21599	Hinged side cover, R.H.	1
7	31765	Header screen	1
8	21598	Hinge, side cover, R.H.	1
9	21596	Belt seal, product elevator	2
10	31772	Guard, L.H. drives	1
11	31722	Adjuster, ground roller frame assembly	2
12	21622	Liner, reel cover	1
13	21621	Belt seal, plant aligner belt	2
14	31719	Bearing mount, R.H. plant aligner frame	1
15	31685	Bearing adjuster mount, R.H. plant aligner frame	1
16	31821	Bearing adjuster assembly	2
17	38128	Bracket, side cover latch	2
18	50539	Latch, R.H. side cover	2
19	93001	Machine screw, 1/4"-20 x 1/2" hex head, grade 5	4
20	93451	Nut, 1/4"-20 fin. hex	4
21	93576	Lockwasher, 1/4" USS standard spring	4
22	93601	Flatwasher, 1/4" USS standard wrought	8
23	93028	Machine screw, 5/16"-18 x 1" hex head, grade 5	2
24	93452	Nut, 5/16"-18 fin. hex	18
25	93577	Lockwasher, 5/16" USS standard spring	18
26	93602	Flatwasher, 5/16" USS standard wrought	4
27	93375	Step bolt, 5/16"-18 x 1"	16
28	93216	Carriage bolt, 1/2"-13 x 2" grade 5	4
29	93080	Machine screw, 1/2"-13 x 1 1/2" hex head, grade 5	6
30	93219	Carriage bolt, 1/2"-13 x 3 1/2 hex head, grade 5	4
31	93088	Machine screw, 1/2"-13 x 3 1/2 hex head, grade 5	2
32	93455	Nut, 1/2"-13 fin. hex	16
33	93580	Lockwasher, 1/2" USS standard spring	16
34	93605	Flatwasher, 1/2" USS standard wrought	A.R.
35	93313	Plow bolt, 1/2"-13 x 1 1/2", grade 5	2
36	51008	"H" clevis (includes casting, pins & cotter pins)	2
37	93457	Nut, 5/8"-11 fin. hex	4
38	93607	Flatwasher - 5/8" USS standard wrought	4
39	90011	Decal "BYRON" - (not shown, located on R.H. side cover)	1
40	90095	Decal - "HARVESTER" (not shown, located on R.H. side cover)	1
41	90181	Decal - "105" (not shown, located on R.H. side cover)	1

# HEADER DRIVES

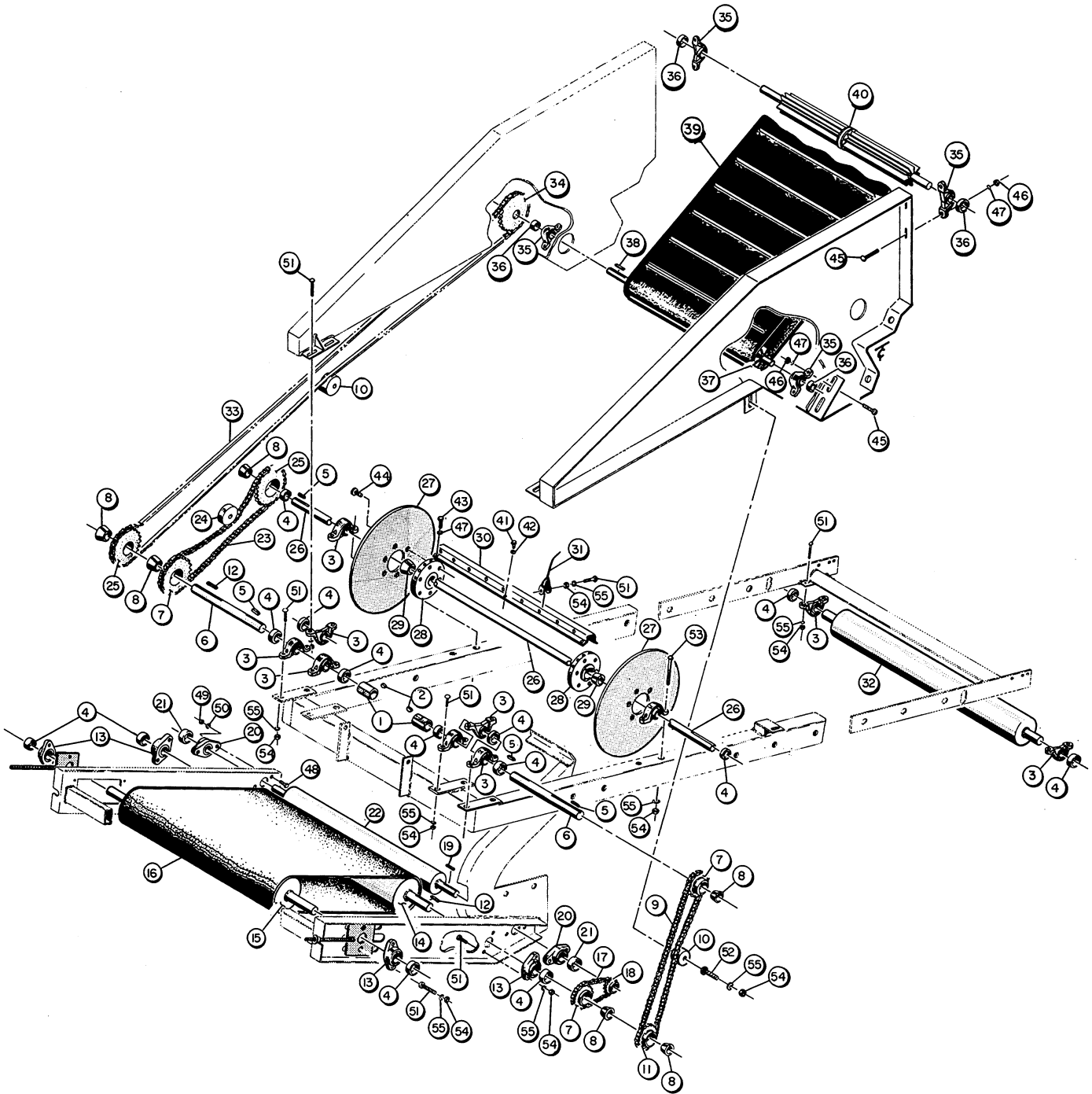


## HEADER DRIVES

KEY	P/N	DESCRIPTION	USED
1	51287	Drive coupling, motor to shaft	2
2	93718	Woodruff key, coupling to motor - 1/4" x 1"	2
3	50660	Bearing assembly, 1 1/4" bore pillow block (includes cast housing, bearing, lock collar and grease fitting)	10
—	50294	Bearing, replacement insert for 50660	A.R.
4	50244	Lock collar, 1 1/4" shaft, eccentric (heavy duty)	A.R.
5	50067	Square key, 1/4" x 1 1/2" long	5
6	51594	Drive shaft, pivot	2
7	58054	Sprocket, 26 tooth, RC#50-1R chain, tapered bore (2012 hub)	2
8	50073	Hub kit, taperlock - 1 1/4" bore 2012 series (includes set screws)	6
9	51655	Chain assembly, RC#50-1R x 69 total pitches (includes connector and offset links)	1
—	50233	Connector link, RC#50-1R chain (spring clip type)	A.R.
—	50234	Offset link, RC#50-1R chain (cotter pin type)	A.R.
10	50412	Chain slide, 3 1/2" dia. x 2" wide x 1/2" hole	2
11	51619	Sprocket, 22 tooth, RC#50-1R chain, tapered bore (2012 hub)	1
12	50428	Square key, 1/4" x 3" long	2
13	50293	Bearing assembly, 1 1/4" bore, 2-bolt flange (includes cast housing, bearing, lock collar and grease fitting)	4
—	50294	Bearing, replacement insert for 50293	A.R.
14	51581	Drive roll assembly, plant aligner belt	1
15	51582	Idle roll assembly, plant aligner belt	1
16	51623	Belt, plant aligner	1
—	51638	Belt lacing pin (order by the foot) (not shown)	A.R.
—	51642	Belt lacing (Alligator brand 125 S.S.) (order by the foot)	A.R.
—	51640	Crimp washer (order 2 per lacing pin)	A.R.
17	58123	Chain assembly, RC#50-1R x 41 total pitches (includes connector and offset link)	1
--	50233	Connector link, RC#50-1R chain (spring clip type)	A.R.
--	50234	Offset link, RC#50-1R chain (cotter pin type)	A.R.
18	58061	Sprocket, 15 tooth, RC#50-1R chain, 1 1/8" finished bore (includes set screws)	1
19	50215	Square key, 3/16" x 1 1/4" long, sprocket to shaft	1
20	58077	Bearing assembly, 1 1/8" bore, 2-bolt flange (includes cast housing, bearing, lock collar and grease fitting)	2
21	50173	Lock collar, 1 1/8" shaft, eccentric (heavy duty)	A.R.
22	51586	Concave roller assembly	1
23	51657	Chain assembly, RC#50-1R x 93 total pitches (includes connector and offset links)	1
—	50233	Connector link, RC#50-1R chain (spring clip type)	A.R.
—	50234	Offset link, RC#50-1R chain (cotter pin type)	A.R.
24	51616	Chain slide, 3 1/2" dia. x 2" wide x 1/2" hole (counterbored)	1
25	51619	Sprocket, 22 tooth, RC#50-1R chain, tapered bore (2012 hub)	2
26	51593	Shaft, picking reel	1
27	51659	Outer disk, picking reel	2
28	51592	Spider, picking reel	2
29	50321	Hub kit, taperlock - 1 1/4" bore 1615 series (includes set screws)	2
30	21583	Reel bar (first hole is 3 3/4" from left end)	3
30	21584	Reel bar (first hole is 1 1/2" from left end)	3
30	21585	Reel bar (first hole is 2 1/4" from left end)	3
30	21586	Reel bar (first hole is 3" from left end)	3
31	58113	Tooth, reel bar	100
32	51574	Ground roller assembly	1
33	51656	Chain assembly, RC#50-1R x 139 total pitches (includes connector and offset links)	1
—	50233	Connector link, RC#50-1R chain (spring clip type)	A.R.
—	50234	Offset link, RC#50-1R chain (cotter pin type)	A.R.
34	51618	Sprocket, 18 tooth, RC#50-1R chain, 1" finished bore (includes set screws)	1

(continued)

# HEADER DRIVES

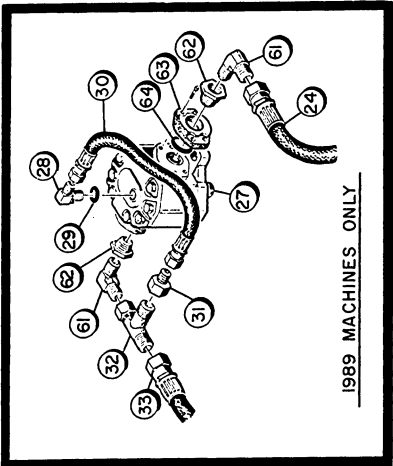
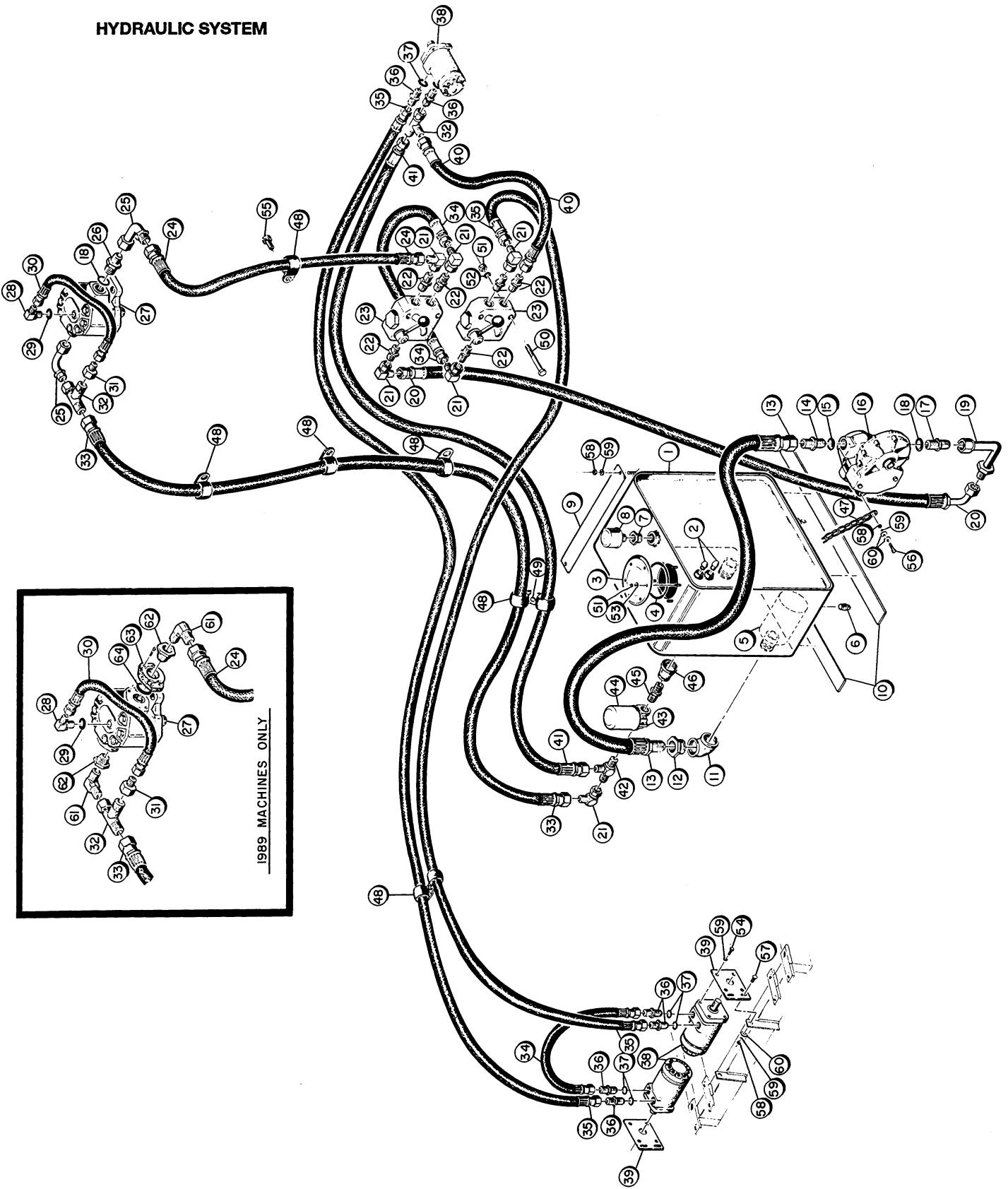


## HEADER DRIVES (continued)

KEY	P/N	DESCRIPTION	USED
35	51662	Bearing assembly, 1" bore pillow block (includes cast housing, bearing, lock collar and grease fitting)	4
36	50135	Lock collar, 1" shaft, eccentric	A.R.
37	51590	Drive roll, conveyor belt	1
38	50215	Square key, 3/16" x 1 1/4" long	1
39	51624	Belt, conveyor *	1
40	51591	Idle roll, conveyor belt	1
41	93380	Machine screw, 5/16"-18 x 3/4" hex serrated flange head, self-locking	12
42	93521	Cage nut, 5/16"-18	12
43	93053	Machine screw, 3/8"-16 x 1" hex head, grade 5	12
44	93383	Machine screw, 3/8"-16 x 1" hex serrated flange head, self-locking	24
45	93191	Carriage bolt, 3/8"-16 x 1 1/2" grade 5	8
46	93453	Nut, 3/8"-16 fin. hex	12
47	93578	Lockwasher, 3/8" USS standard spring	12
48	94009	Machine screw, 7/16"-14 x 1 1/2" hex head, grade 5	4
49	93454	Nut, 7/16"-14 fin. hex	4
50	93579	Lockwasher, 7/16" USS standard spring	4
51	93216	Carriage bolt, 1/2"-13 x 2" grade 5	22
52	93219	Carriage bolt, 1/2"-13 x 3 1/2" grade 5	3
53	93256	Carriage bolt, 1/2"-13 x 6" grade 5	6
54	93455	Nut, 1/2"-13 fin. hex	29
55	93580	Lockwasher, 1/2"-13 USS standard spring	29

\* When installing a new conveyor belt (live belt), it may be necessary to move reel frame forward to prevent reel teeth from damaging cleats on new belt. (see adjustments section).

# HYDRAULIC SYSTEM

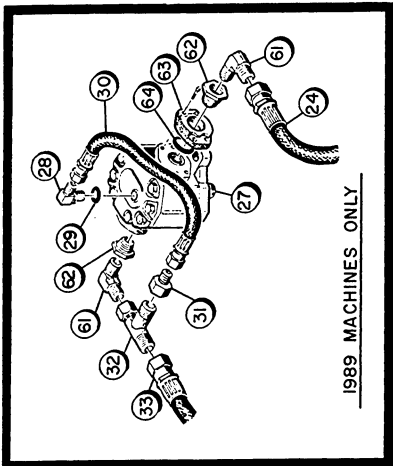
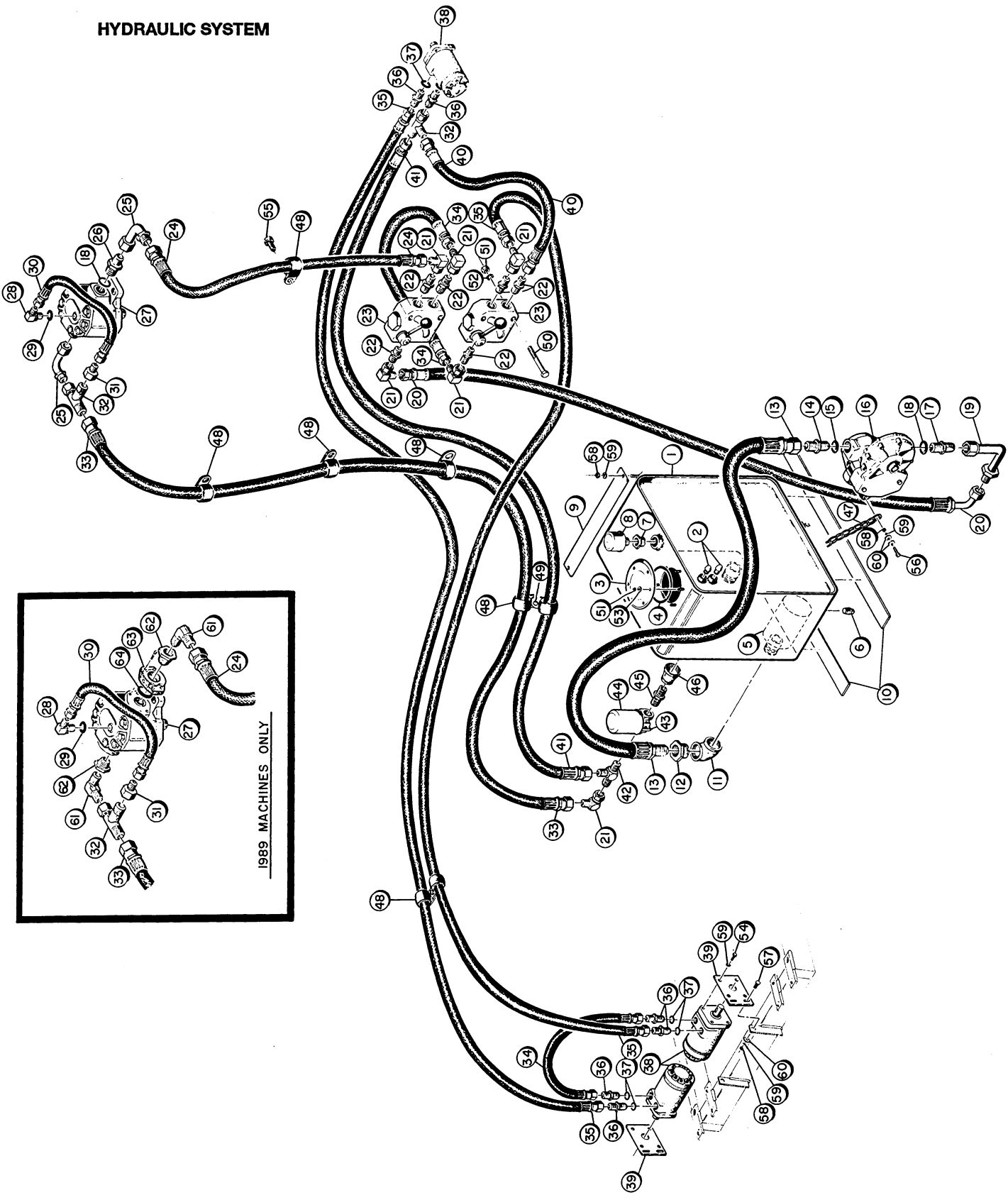


## HYDRAULIC SYSTEM

KEY	P/N	DESCRIPTION	USED
1	40165	Hydraulic tank assembly (includes items, 2, 3, 4, 51 and 52)	1
2	40175	Sight glass, hydraulic fluid level	2
3	40249	Cover, hydraulic tank	3
4	40250	"O" ring, cover to tank	1
5	40027	Strainer, hydraulic pump suction (100 micron)	1
6	40028	Plug, 1" NPT square head	2
7	40041	Reducer bushing, 1" to 3/4" NPT, hex	1
8	41513	Breather, hydraulic tank - 3/4" NPT	1
9	31802	Strap, tank hold-down	1
10	31803	Pad, tank mounting	2
11	40046	90° elbow, 1/2" NPT	1
12	40182	Reducer bushing, 1 1/2" to 1 1/4" NPT, hex	1
13	41496	Hose assembly, 1 1/4" NPT solid male to -16 JIC straight female swivel, 60" long-tank to pump, suction	1
14	45334	Straight adapter, -16 JIC to -20 SAE "O" ring (includes "O" ring)	1
15	45882	"O" ring, -20	A.R.
16	41512	Hydraulic pump and speed increaser assembly (standard 14 GPM pump)	1
--	41551	Pump assembly, 14 GPM	A.R.
16	41522	Hydraulic pump and speed increaser assembly (optional 20 GPM pump)	A.R.
--	41552	Pump assembly, 20 GPM	A.R.
--	41553	Speed increaser assembly, 1:3 for 540 R.P.M. P.T.O.	A.R.
—	48111	Seal kit, pump rebuild	A.R.
17	45330	Straight adapter, -16 SAE "O" ring to -12 JIC solid male (includes "O" ring)	1
18	45881	"O" ring, -16	A.R.
19	45996	90° long elbow, -12 JIC female swivel to -12 JIC solid male	1
20	41503	Hose assembly, -12 JIC 90° female swivel to -10 JIC straight female swivel, 67" long - pressure to flow divider valve	1
21	45253	90° swivel elbow, -10 JIC	6
22	45496	Straight adapter, 1/2" NPT to -10 JIC	6
23	41514	Flow divider valve assembly	2
24	41504	Hose assembly, -10 JIC straight female swivel both ends x 68" long - upper flow divider valve pressure to fan motor	1
25	46027	90° long swivel elbow, -10 JIC	2
26	45329	Straight adapter, -16 SAE "O" ring to -10 JIC solid male	2
27	41511	Hydraulic motor, fan drive (S/N 190001 thru 10016)	1
27	41545	Hydraulic motor, fan drive (S/N 190017 and higher)	1
—	41535	Seal kit for 41511	A.R.
28	45380	90° adapter elbow, -6 SAE "O" ring to -6 JIC (includes "O" ring)	1
29	45877	"O" ring, -6	A.R.
30	41497	Hose assembly, -6 JIC straight female swivel both ends, 15" long - fan motor case drain	1
31	45202	Straight tube adapter, -6 JIC male to -10 JIC female	1
32	45177	Swivel run tee, -10 JIC	2
33	41502	Hose assembly, -10 JIC straight female swivel both ends, 129" long - fan return line	1
34	41463	Hose assembly, -10 JIC straight female swivel both ends, 22" long - pressure from upper to lower flow divider valve and jumper between header drive motors	2
35	41499	Hose assembly, -10 JIC straight female swivel both ends, 144" long - pressure to and return from header drive motors	2
36	45319	Straight adapter, -10 SAE "O" ring to -10 JIC solid male (includes "O" ring)	6
37	45879	"O" ring, -10	A.R.
38	41257	Hydraulic motor, header and cross conveyor drive	3
—	41209	Seal kit for Char-Lynn H-9 series motor	A.R.
—	41286	Replacement flange for Char-Lynn H-9 motor	A.R.
39	31842	Motor mount plate, header drive motor	2

(continued)

# HYDRAULIC SYSTEM



1989 MACHINES ONLY

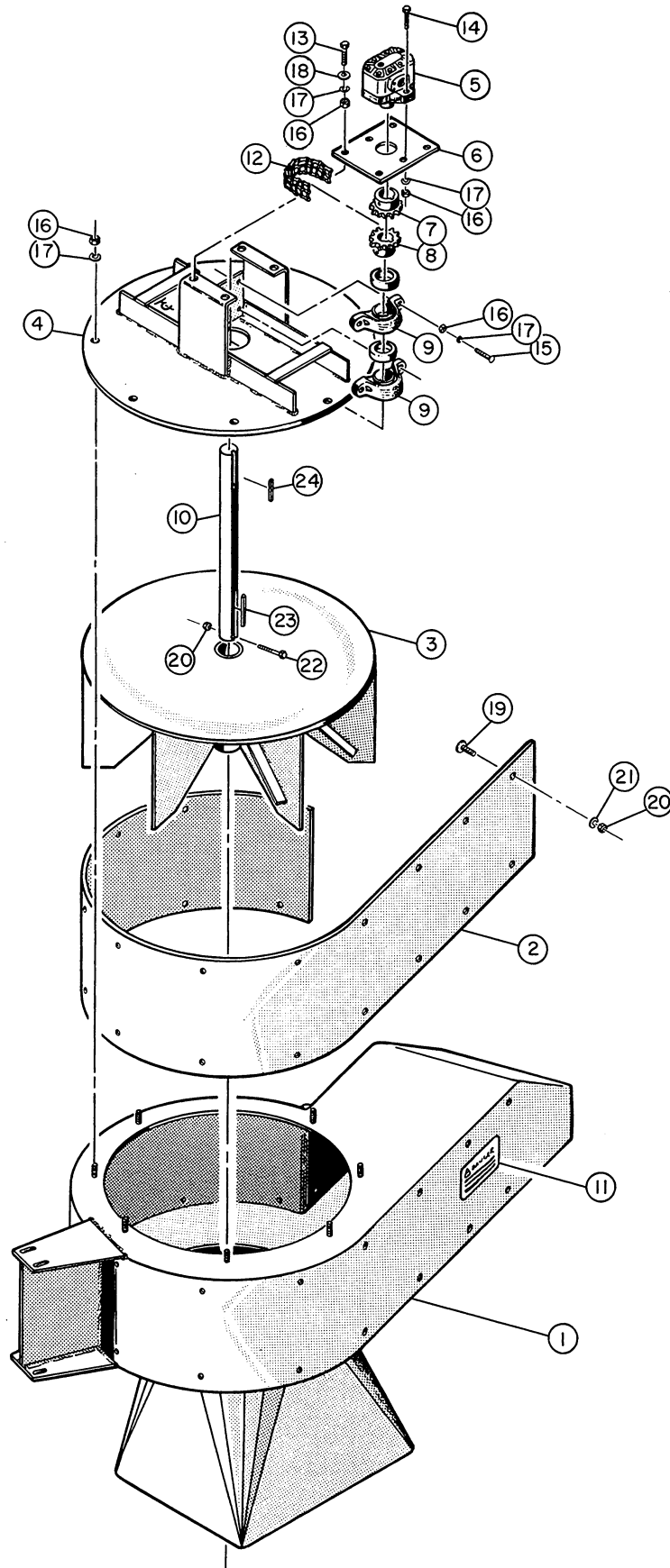


## HYDRAULIC SYSTEM (continued)

KEY	P/N	DESCRIPTION	USED
40	41501	Hose assembly, -10 JIC straight female swivel both ends, 16" long - return line from lower flow divider valve	1
41	41498	Hose assembly, -10 JIC straight female swivel both ends, 62" long - return line from cross conveyor drive motor to tank	1
42	45594	Adapter run tee, -10 JIC to 3/4" NPT solid male	1
43	41515	Filter assembly, return oil (includes item 44)	1
44	41530	Filter element	A.R.
45	45709	Close nipple, 3/4" NPT hex	1
46	46028	Reducer bell, 1 1/2" NPT to 3/4" NPT	1
47	38166	Chain, pump torque snubber	1
48	93881	Loom clip, 1" clamp dia.	8
49	93003	Machine screw, 1/4"-20 x 1" hex head, grade 5	5
50	93009	Machine screw, 1/4"-20 x 2 1/2" hex head, grade 5	4
51	93451	Nut, 1/4"-20 fin. hex	9
52	93576	Lockwasher, 1/4" USS standard spring	9
53	93601	Flatwasher, 1/4" USS standard wrought	6
54	93052	Machine screw, 3/8"-16 x 3/4" hex head, grade 5	8
55	93383	Machine screw, 3/8"-16 x 1" hex serrated flange, self-locking	2
56	93055	Machine screw, 3/8"-16 x 1 1/2" hex head, grade 5	1
57	93190	Carriage bolt, 3/8"-16 x 1 1/4" grade 5	4
58	93453	Nut, 3/8"-16 fin. hex	9
59	93578	Lockwasher, 3/8" USS standard spring	13
60	93603	Flatwasher, 3/8" USS standard wrought	2
61	45562	90° adapter elbow, -10 JIC to 1/2" NPT*	2
62	40732	Reducer bushing, 1" to 1/2" NPT hex	?
63	48112	Adapter block, split flange pad to 1" NPT (includes bolts)*	2
64	45890	"O" ring, -20*	2

\*Parts used on some early production harvesters.

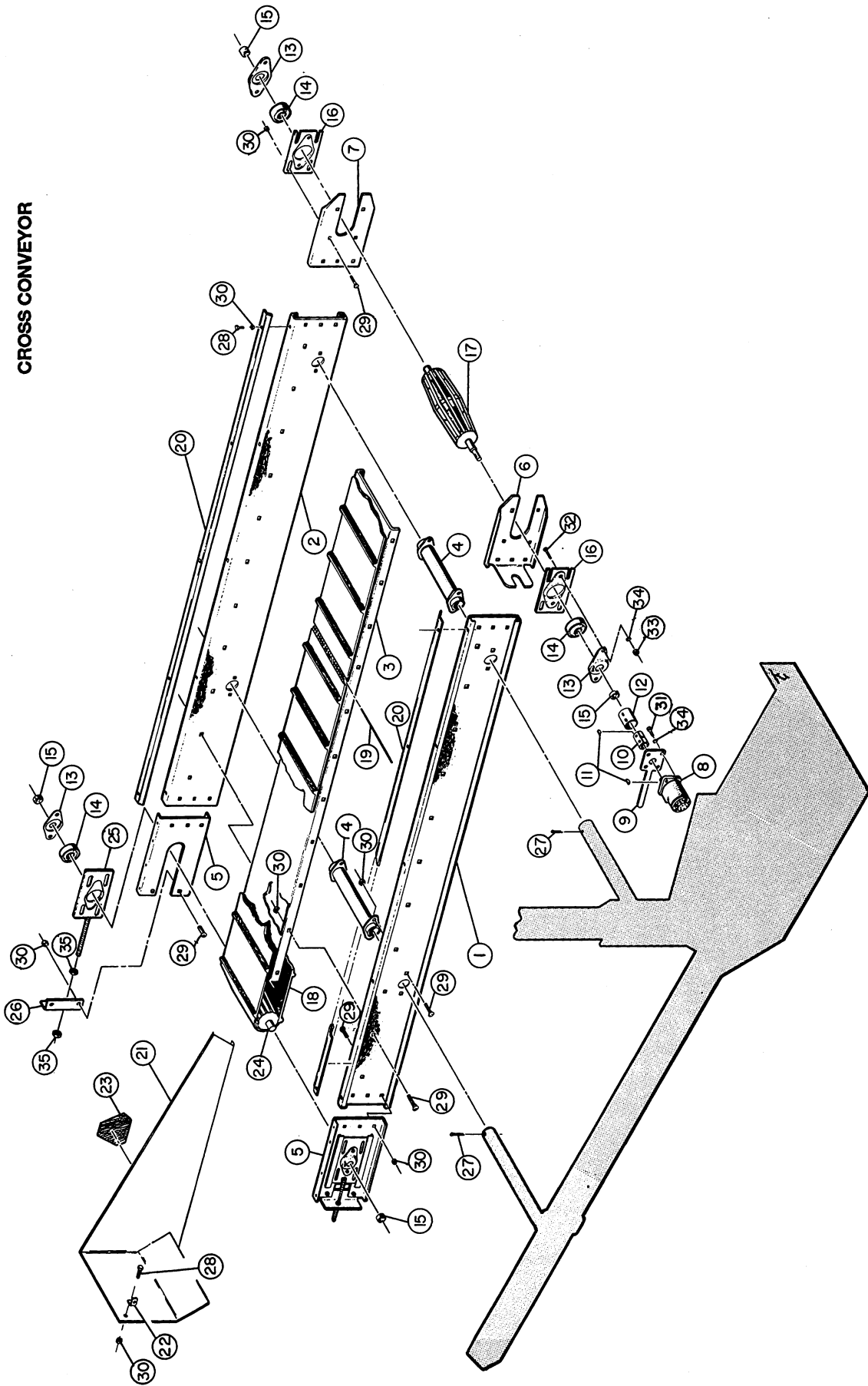
CLEANING FAN



## CLEANING FAN

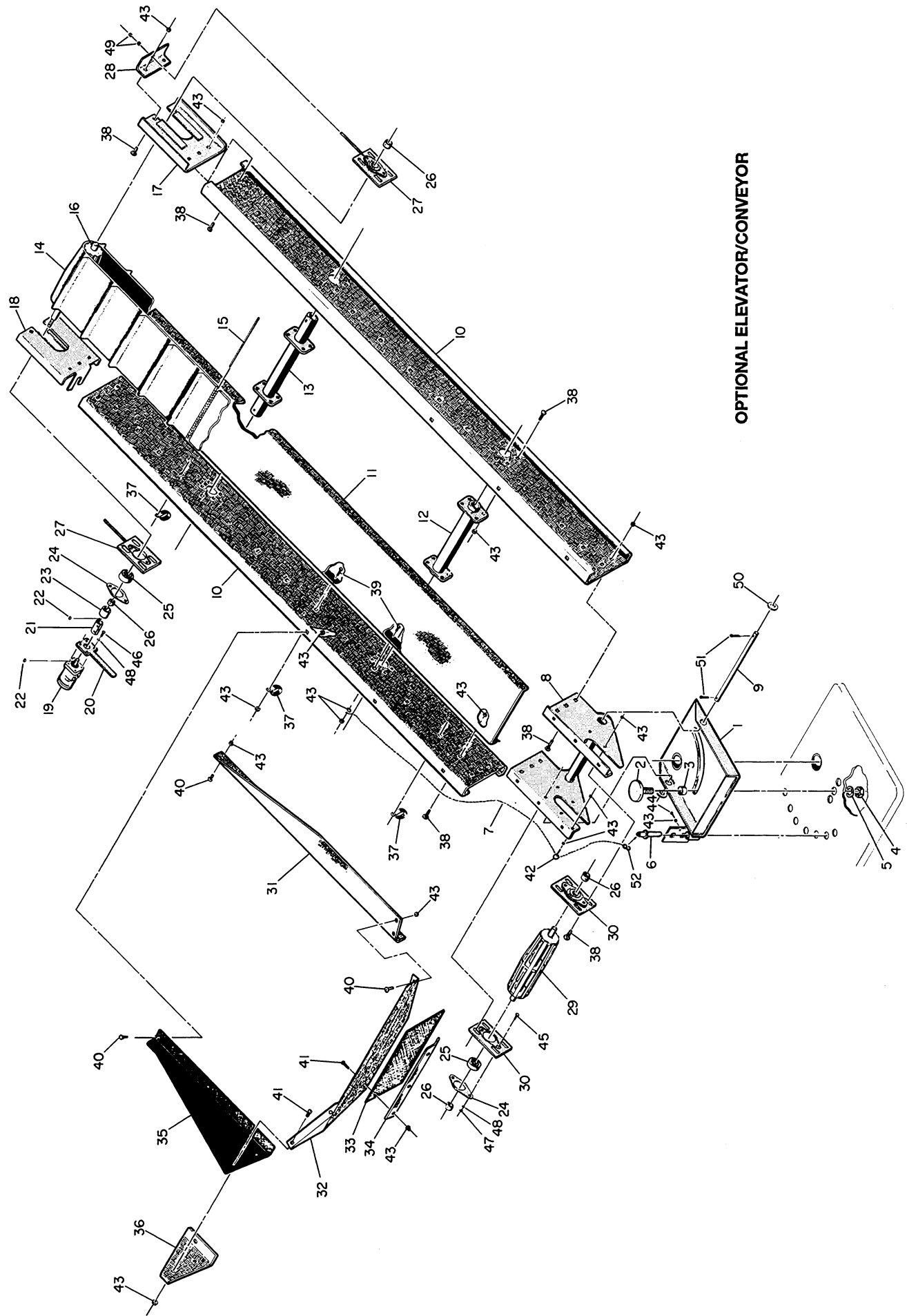
KEY	P/N	DESCRIPTION	USED
1	31778	Fan housing	1
2	21607	Liner, fan housing	1
3	51597	Fan assembly	1
4	21609	Top cover assembly	1
5	-----	Hydraulic motor, fan drive (see Hydraulic System illustration for additional parts)	1
6	31779	Motor mount plate	1
7	51621	Coupler sprocket, 16 tooth, #50 chain, 7/8" finished bore (includes set screws)	1
8	51620	Coupler sprocket, 16 tooth, #50 chain, 1 1/2" finished bore (includes set screws)	1
9	51622	Bearing assembly, 1 1/2" bore, pillow block (includes cast housing, bearing, lock collar and grease fitting)	2
—	58124	Lock collar, 1 1/2" shaft, eccentric, heavy duty	A.R.
10	51614	Shaft, fan drive, 1 1/2" dia. x 15 1/2" long	1
11	90023	Decal "DANGER, fan discharge area"	1
12	50090	Chain coupler, RC#50-2R x 16 total pitches (includes connector link)	1
—	50595	Connector link, RC#50-2R (spring clip type)	A.R.
13	93215	Carriage bolt, 1/2"-13 x 1 1/2" grade 5	4
14	93082	Machine screw, 1/2"-13 x 2" hex head, grade 5	2
15	93216	Carriage bolt, 1/2"-13 x 2" grade 5	4
16	93455	Nut, 1/2"-13 fin. hex	10
17	93580	Lockwasher, 1/2" USS standard spring	10
18	93605	Flatwasher, 1/2" USS standard wrought	4
19	93775	Step bolt, 5/16"-18 x 1"	24
20	93452	Nut, 5/16"-18 fin. hex	26
21	93577	Lockwasher, 5/16" USS standard spring	26
22	93032	Machine screw, 5/16"-18 x 2" hex head, grade 5	2
23	50269	Square key, 3/8" x 6" long	1
24	51663	Square key, 3/8" x 1 1/4" long	1

CROSS CONVEYOR



## CROSS CONVEYOR

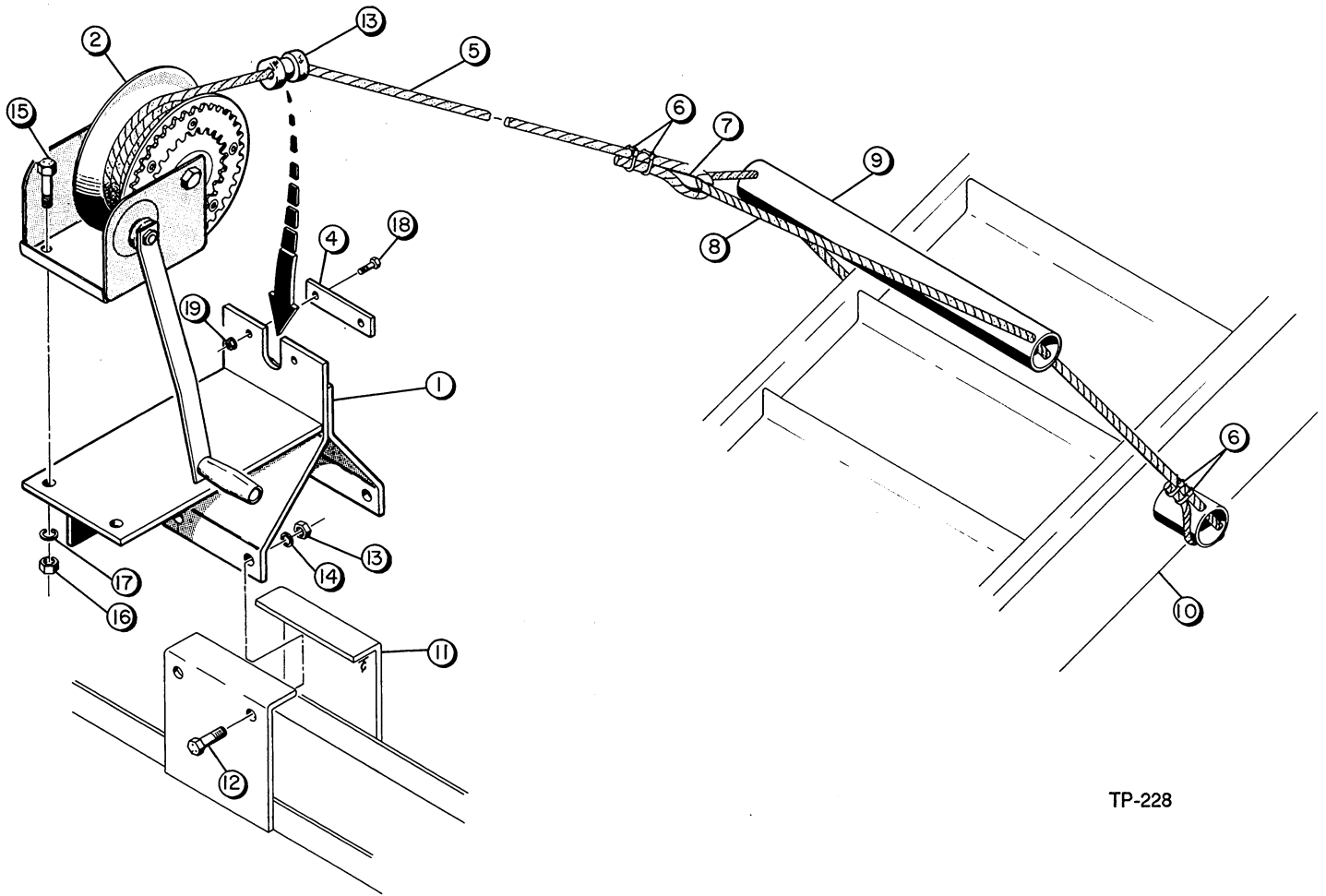
KEY	P/N	DESCRIPTION	USED
1	21280	Conveyor side, front	1
2	21281	Conveyor side, rear	1
3	21283	Conveyor floor	1
4	31346	Torque tube assembly	2
5	21284	Conveyor boot side	2
6	21286	Head section side, front (motor mount side)	1
7	21309	Head section side, rear	1
8	41257	Hydraulic motor, conveyor drive (see hydraulic system illustration for additional parts)	1
9	51255	Motor mount/torque arm	1
10	51287	Drive coupling, (includes screws)	1
11	93718	Woodruff key, 1/4" x 1" (#808), coupling to motor & shaft	2
12	51254	Safety shield, drive coupling	1
13	50087	Bearing housing (flangette) 2-bolt	4
14	50103	Bearing assembly, 1 1/4" bore non-regreaseable (includes lock collar)	4
15	50102	Lock collar, 1 1/4" shaft, eccentric (light duty)	A.R.
16	21267	Bearing plate, conveyor drive	2
17	51252	Conveyor drive roll assembly	1
18	51279	Conveyor belt assembly, (includes pin, lacing, and crimp washers)	1
19	51638	Belt lacing pin (order by the foot)	A.R.
—	51642	Belt lacing (Alligator brand 125 S.S.) (order by the foot)	A.R.
—	51640	Crimp washer (order 2 per lacing pin)	A.R.
20	21587	Belt seal	2
21	31785	Conveyor hopper	1
22	31786	Mounting bracket, hopper	1
23	90080	SMV sign (decal)	1
24	51246	Conveyor idler roll assembly	1
25	21278	Bearing plate/conveyor belt adjuster assembly	2
26	31345	Adjuster angle	2
27	93694	Cotter pin, 1/4" x 3" - cross conveyor to main frame	2
28	93027	Machine screw, 5/16"-18 x 3/4" hex head, grade 5	10
29	93163	Carriage bolt, 5/16"-18 x 3/4" grade 5	54
30	93522	Locknut, 5/16"-18 hex serrated flange	72
31	93052	Machine screw, 3/8"-16 x 3/4", hex head grade 5	4
32	93188	Carriage bolt, 3/8"-16 x 3/4" grade 5	8
33	93453	Nut, 3/8"-16 fin. hex	8
34	93578	Lockwasher, 3/8" USS standard spring	12
35	93455	Nut, 1/2"-13 fin. hex	4



OPTIONAL ELEVATOR/CONVEYOR

## OPTIONAL ELEVATOR/CONVEYOR

KEY	P/N	DESCRIPTION	USED
1	51244	Turntable assembly	1
2	31379	Holddown, turntable	1
3	31380	Spacer, holddown	1
4	93458	Nut, 3/4"-10 fin. hex	1
5	93583	Lockwasher, 3/4" USS standard spring	1
6	51299	Turntable position lock pin	1
7	51308	Chain, lock pin release	1
8	31339	Elevator boot assembly	1
9	51300	Elevator pivot shaft	1
10	21269	Elevator side	2
11	21270	Elevator floor	1
12	31360	Torque tube assembly, lower	1
13	31358	Torque tube assembly, upper	1
14	51256	Conveyor belt assembly (includes pin)	1
---	31941	Belt edge seal (not shown)	2
15	51257	Lacing pin, conveyor belt	A.R.
16	51252	Conveyor drive roll assembly	1
17	31343	Head section side assembly, R.H.	1
18	31340	Head section side assembly, L.H. (motor side)	1
19	40263	Hydraulic motor, conveyor drive (see hydraulic system illustration for additional parts)	1
20	51255	Motor mount/torque arm	1
21	51287	Drive coupling (includes screws)	1
22	93718	Woodruff key, coupling to motor and drive roll shaft, 1/4" x 1" (#808)	2
23	51254	Safety shield, drive coupling	1
24	50087	Bearing housing (flangette) 2-bolt	4
25	50103	Bearing assembly, 1 1/4" bore non-regreaseable (includes lock collar)	4
26	50102	Lock collar, 1 1/4" bore, eccentric (light duty)	A.R.
27	21278	Bearing plate/conveyor belt adjuster assembly	2
28	31345	Angle, adjuster	2
29	51246	Conveyor idler roll assembly	1
30	21274	Bearing plate, idler shaft	2
31	21484	Hopper panel, R.H.	1
32	21483	Hopper panel, rear	1
33	21341	Hopper/conveyor spill flap	1
34	21342	Panel, flap back-up	1
35	21485	Hopper panel, L.H. (rubber)	1
36	21486	Panel, rubber back-up, L.H.	1
37	93882	Loom clip, 1/2" (hose retainer)	3
38	93163	Carriage bolt, 5/16"-18 x 3/4" grade 5	66
39	93164	Carriage bolt, 5/16"-18 x 1" grade 5	4
40	93379	Machine screw, 5/16"-18 x 5/8" truss head, grade 5	6
41	93380	Machine screw, 5/16"-18 x 3/4" truss head, grade 5	10
42	93391	Eye bolt, 5/16"-18 x 1 1/8" long	1
43	93522	Locknut, 5/16"-18 hex serrated flange, self locking	101
44	93028	Machine screw, 5/16"-18 x 1" hex head, grade 5	1
45	93188	Carriage bolt, 3/8"-16 x 3/4" grade 5	3
46	93052	Machine screw, 3/8"-16 x 3/4" hex head, grade 5	4
47	93453	Nut, 3/8"-16 fin. hex	8
48	93578	Lockwasher, 3/8" USS standard spring	12
49	93455	Nut, 1/2"-13 fin. hex	4
50	93642	Machinery washer, 1" shaft x 10 ga. (wide rim)	2
51	93690	Cotter pin, 1/4" x 2"	2
52	93895	"S" hook, pin release chain to pin	1

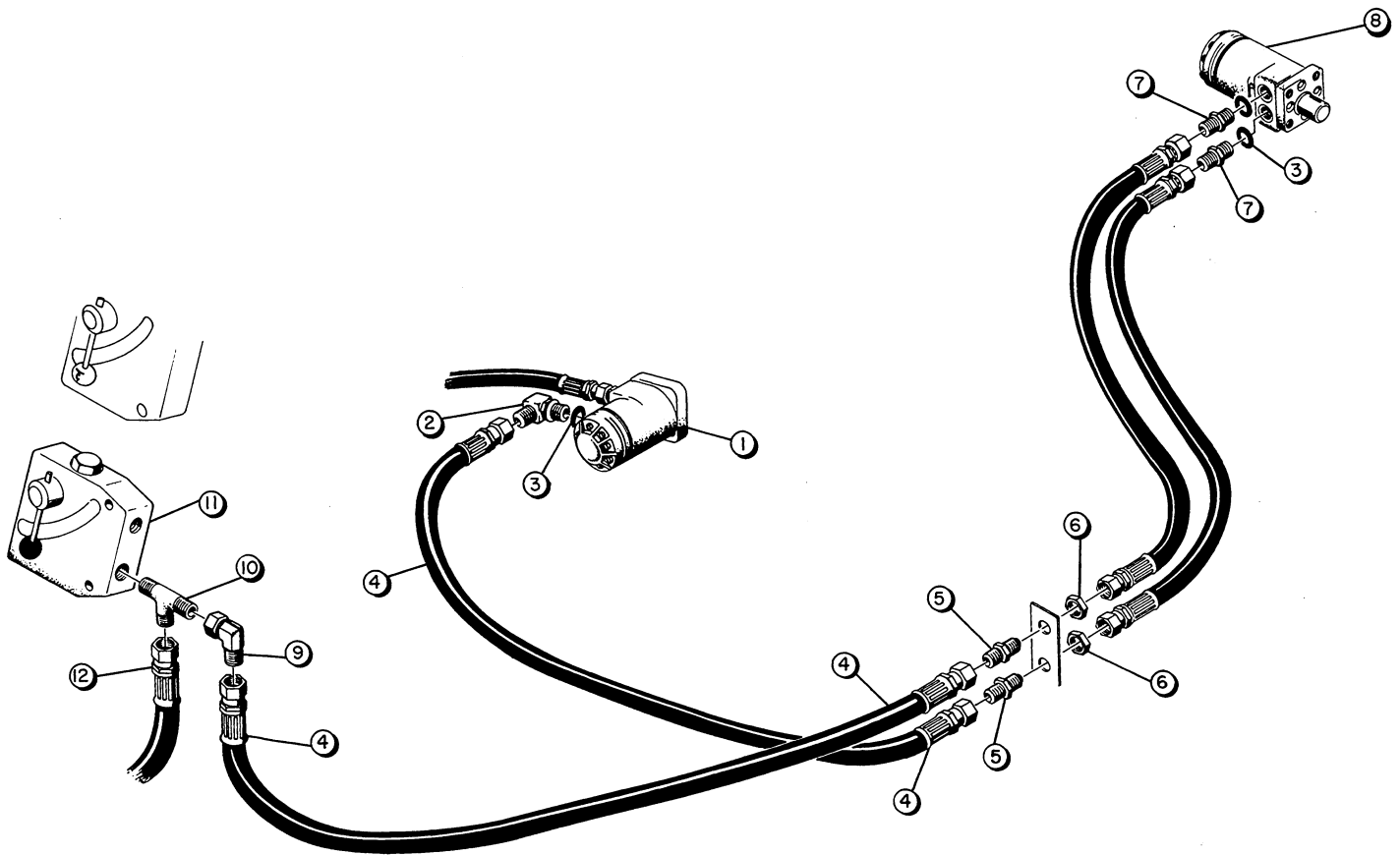


TP-228

### OPTIONAL WINCH & ELEVATOR HANGER

KEY	P/N	DESCRIPTION	USED
1	31900	Winch mount	1
2	51274	Winch assembly (does not include cable)	1
3	51294	Cable guide	1
4	31416	Retainer, cable guide	1
5	51303	Lift (winch) cable	1
6	31396	Cable clamp, 5/16"	10
7	31397	Thimble	1
8	51302	Elevator hanger cable	1
9	51301	Elevator hanger tube	1
10	—	Elevator assembly (see Elevator/Conveyor illustration)	—
11	—	Fan cover assembly (see Cleaning Fan illustration)	—
12	93080	Machine screw, 1/2"-13 x 1 1/2" hex head, grade 5	4
13	93455	Nut, 1/2"-13 fin. hex	4
14	93580	Lockwasher, 1/2" USS standard spring	4
15	93053	Machine screw, 3/8"-16 x 1" hex head, grade 5	2
16	93453	Nut, 3/8"-16 fin. hex	2
17	93578	Lockwasher, 3/8" USS standard spring	2
18	93028	Machine screw, 5/16"-18 x 1" hex head, grade 5	2
19	93522	Locknut, 5/16"-18 hex serrated flange, self-locking	2





TP-227

### HYDRAULIC PLUMBING FOR OPTIONAL REAR ELEVATOR

KEY	P/N	DESCRIPTION	USED
1	41257	Hydraulic motor, cross conveyor drive (see Hydraulic System illustration for additional parts)	1
2	45388	90° adapter elbow, -10 SAE "O" ring to -10 JIC, solid male (includes "O" ring)	1
3	45879	"O" ring, -10	A.R.
4	48077	Hose assembly, -10 JIC straight female swivel both ends, 49" long	2
5	45139	Bulkhead union, -10 JIC (includes jam nut)	2
6	45980	Jam nut, -10	A.R.
7	45319	Straight adapter, -10 SAE "O" ring to -10 JIC (includes "O" ring)	2
8	40263	Hydraulic motor, elevator drive	1
—	41209	Seal kit for Char-Lynn H-9 series motor	A.R.
—	41286	Replacement flange for Char-Lynn H-9 series motor	A.R.
9	45253	90° swivel elbow, -10 JIC	1
10	45592	Adapter run tee, 1/2" NPT to -10 JIC	1
11	—	Lower flow control valve (see Hydraulic System illustration)	—
12	—	Hose assembly, lower flow control valve to tank (see Hydraulic System illustration)	—

# NUMERICAL PARTS INDEX

P/N	PAGE
10344	19
10347	21
10353	19

21267	33
21269	35
21270	35
21274	35
21278	33
21278	35
21280	33
21281	33
21283	33
21284	33
21286	33
21309	33
21341	35
21342	35
21483	35
21484	35
21485	35
21486	35
21583	23
21584	23
21585	23
21586	23
21587	33
21596	21
21598	21
21599	21
21607	31
21609	31
21621	21
21622	21
21652	19

31339	35
31340	35
31343	35
31345	33,35
31346	33
31358	35
31360	35
31379	35
31380	35
31383	19
31396	36
31397	36
31416	36
31685	21
31719	21
31722	21

P/N	PAGE
31750	19
31755	21
31756	21
31765	21
31772	21
31778	31
31779	31
31784	19
31785	33
31786	33
31802	27
31803	27
31813	21
31818	21
31821	21
31842	27
31900	36
31941	35
38128	21
38166	29

40027	27
40028	27
40041	27
40046	27
40165	27
40175	27
40182	27
40249	27
40250	27
40263	35,37
40732	29
41209	27,37
41257	27,33,37
41286	27,37
41463	27
41496	27
41497	27
41498	29
41499	27
41501	29
41502	27
41503	27
41504	27
41511	27
41512	27
41513	27
41514	27
41515	29
41522	27
41530	29
41535	27

P/N	PAGE
41545	27
41551	27
41552	27
41553	27
45139	37
45177	27
45202	27
45253	27,37
45319	27,37
45329	27
45330	27
45334	27
45380	27
45388	37
45496	27
45562	29
45592	37
45594	29
45709	29
45877	27
45879	27,37
45881	27
45882	27
45890	29
45980	37
45996	27
46027	27
46028	29
48077	37
48111	27
48112	29

50067	23
50073	23
50087	33,35
50090	31
50102	33,35
50103	33,35
50135	25
50173	23
50215	23,25
50233	23
50234	23
50244	23
50269	31
50293	23
50294	23,23
50321	23
50412	23
50428	23
50539	21
50595	31

P/N	PAGE
50660	23
51008	21
51244	35
51246	33,35
51252	33,35
51254	33,35
51255	33,35
51256	35
51257	35
51274	36
51279	33
51287	23,33,35
51292	19
51294	36
51295	19
51299	35
51300	35
51301	36
51302	36
51303	36
51308	35
51574	23
51581	23
51582	23
51586	23
51590	25
51591	25
51592	23
51593	23
51594	23
51597	31
51614	31
51616	23
51618	23
51619	23
51619	23
51620	31
51621	31
51622	31
51623	23
51624	25
51638	23,33
51640	23,33
51642	23,33
51655	23
51656	23
51657	23
51659	23
51662	25
51663	31
58054	23
58061	23



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