

# INSTRUCTIONS

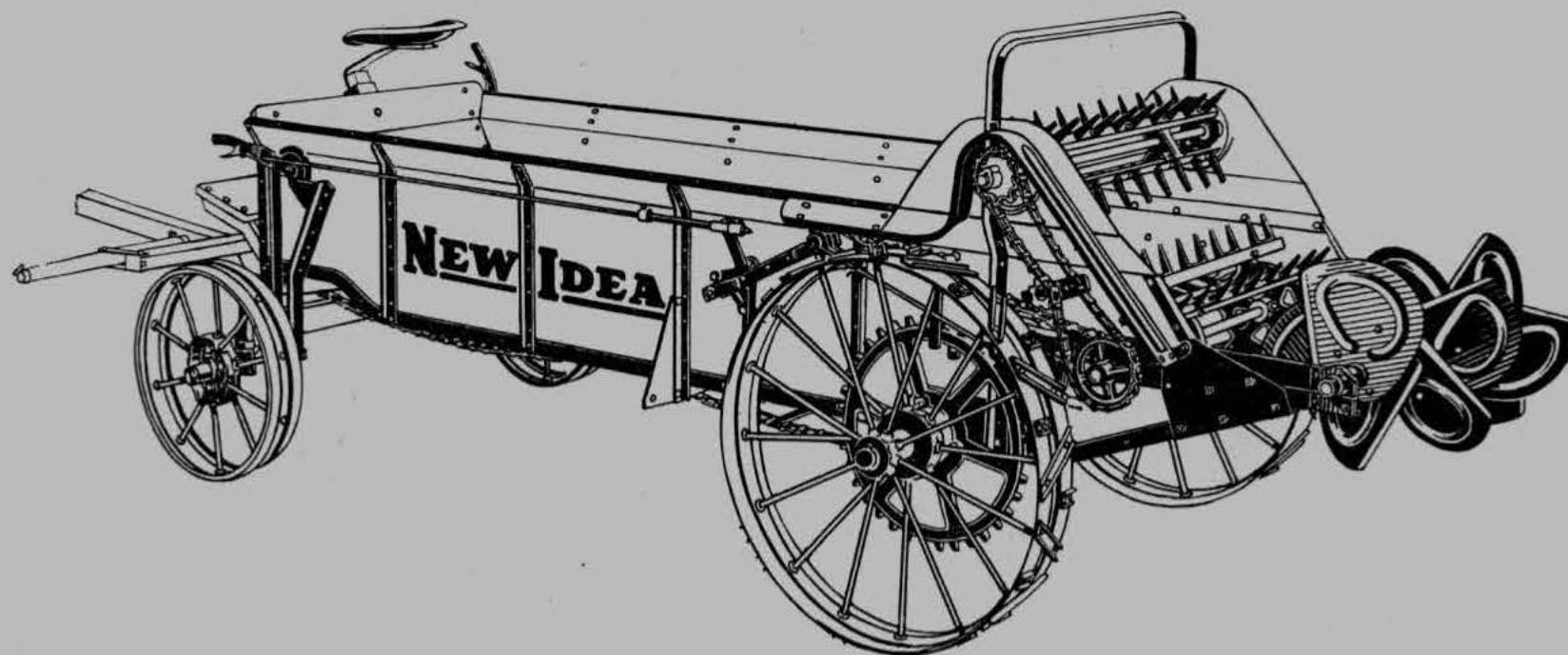
## and REPAIR PARTS LIST

NO. S-169

### For Setting Up and Operating

### No. 10A

## **NEW IDEA** MANURE SPREADER



**FOR THE DEALER AND USER**

*Read This Instruction. Save it for Reference.*

## **NEW IDEA**

FARM EQUIPMENT COMPANY

SUBSIDIARY *AVCO* MANUFACTURING CORPORATION

COLDWATER, OHIO, U.S.A.

986335

# Setting Up Instructions

## SHIPPING BUNDLES

10A-A	Distributor bundle	10A-O	Drive chain shield bundle	10A-FF	Steel wheel - rear (Optional)
10A-B	Conveyor bundle	10A-P	Flare side board bundle	10GG	Carton of parts
10A-C	Pair of sides	10A-R	Long (Horse) pole (Optional)	10HH	Bottom bundle
10A-D	Main cylinder bundle	10A-S	Rear hub (Optional)	12AU	Disc wheel 24 x 7 WD less tire (Optional)
10A-E	Upper cylinder bundle	10A-Z	Seat and foot board bundle (Optional)	12A-K	R. T. Wheel 24 x 7 WD with 7.50 x 24 tire (Optional)
10A-F	Feed rod bundle	10A-AA	Disc wheel 15" less tire (Optional)	A1525 SA	Tractor hitch irons (Optional)
10A-G	Rear axle bundle	10A-BB	R. T. Wheel 15" with 5.90 x 15 tire (Optional)	W185A	Tractor pole - wood only (Optional)
10A-H-1	Front axle bundle	10A-DD	Steel wheel - front (Optional)		
10A-J	Chain and lever bundle	10A-EE	Drive chain No. 600 Series chain (Optional)		
10A-K	Endgate and arch bundle				
10A-L	Two horse hitch bundle (Optional)				
10A-M	Sprocket wheel bundle				
10A-N	Ratchet wheel shield bundle				

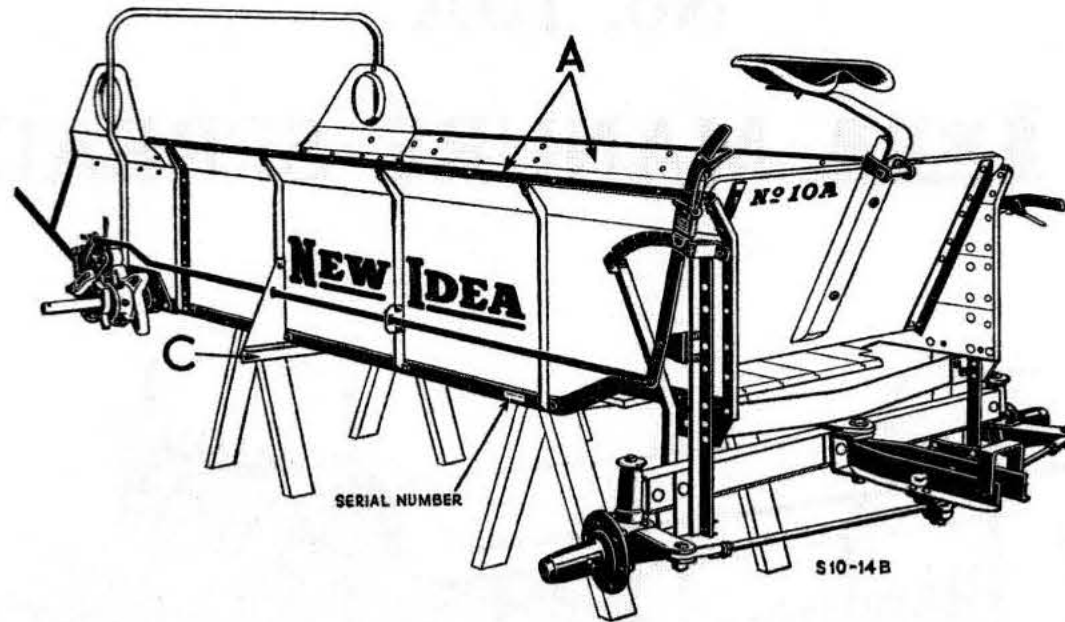


Fig. 1

Cut the wires on all of the various bundles that comprise the spreader and lay all of the parts out separately so they can be easily found when ready to bolt them in place.

Lay the bottom on a pair of trestles or boxes and remove the paint from the end of the feed shaft that projects to the right of the bottom. Insert angle fittings in the feed shaft bearings. Lay the sides on the bottom and bolt the flared side boards "A", Fig. 1 in place. Insert the angle feed bearing in the right side as shown "B", Fig. 2. With this bearing in place, bolt the side to the bottom starting at the rear feed shaft. Register the bolt holes with a punch if necessary and put all bolts in loose. Then bolt the right side brace "C", Fig. 1 to the side and bottom. Now draw all of the side bolts and the bolts in the side brace up tight. Be sure that there are lock washers under all of the nuts. Now put on the left side in the same manner as described above for the right side except there is no feed shaft bearing. **Make sure that the feed shaft turns freely after the sides have been bolted in place.**

Bolt the angle arch and upper cylinder shields in place as shown, Fig. 2. Bolts will be found in a small bag in the box of parts. The two longer bolts are for the point where the upper cylinder shields bolt on to the angle arch. Be sure that all bolts are drawn

up tight and that there are lock washers under parts where metal is bolted against metal.

Remove the front bolts and loosen the rear bolts in each of the tie bars that hold the front axle forks together. The tie bars will then hang down.

On the front axle and bolster assembly, oil all points of the steering mechanism and also put some oil or grease on the guide plates and front axle forks. Then install the front axle in place as shown in Fig. 1. Now front wheels can be bolted to hubs using hub bolts furnished.

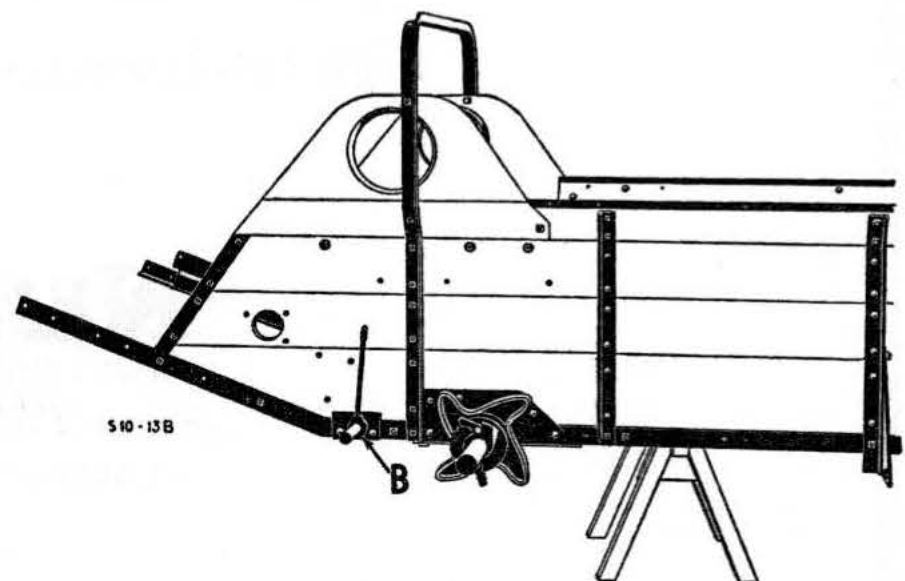


Fig. 2

Bolt the front end gate in place and insert bolts from the outside, putting the upper ones in first which will register with the bolt holes. Draw all bolts up tight. Then put on the seat iron and seat if these have been ordered.

Lay the main axle under the spreader and insert the oil lines and fittings. When bolting the axle bearing clamp straps to the sides, be sure to also attach the oil line support "A", Fig. 2A. Attach oil line lubrication brackets to sides and form oil lines as illustrated in Fig. 2A. Do not allow lines to project beyond side angles.

Be sure to cut the wires that hold the driving pawls in place during shipment on both the feed cam and sprocket wheel hub. Attach the rear axle to the spreader sides as shown in Fig. 2. Be sure the bolts that hold this rear axle in place are drawn up tight. Then bolt the large sprocket wheel to the hub on the left side of the spreader and make sure that the flanged portion of the wheel comes next to the flanged portion of the hub, letters to the outside, or the teeth will stand backward.

Now remove the trestles or boxes from under the bottom and set one under each end of the main axle.

Lay the conveyor in the bed as shown in Fig. 3 with part of the conveyor unrolled pointing to the feed sprockets (rear). Keep unrolling the conveyor putting it squarely over the feed sprockets and pulling it under the bottom then passing it under the axle



Fig. 3

until the end of the conveyor is near the front of the machine. Then run the other end of the conveyor between the bottom and the endgate and couple both ends together. Be sure the conveyor is in the machine so that the bars travel squarely over the feed sprockets and not one side ahead of the other. Chain breakage is sure to be the result by running the bars in such manner. The conveyor should now appear as shown in Fig. 4 and not like Fig. 5 which is incorrect.

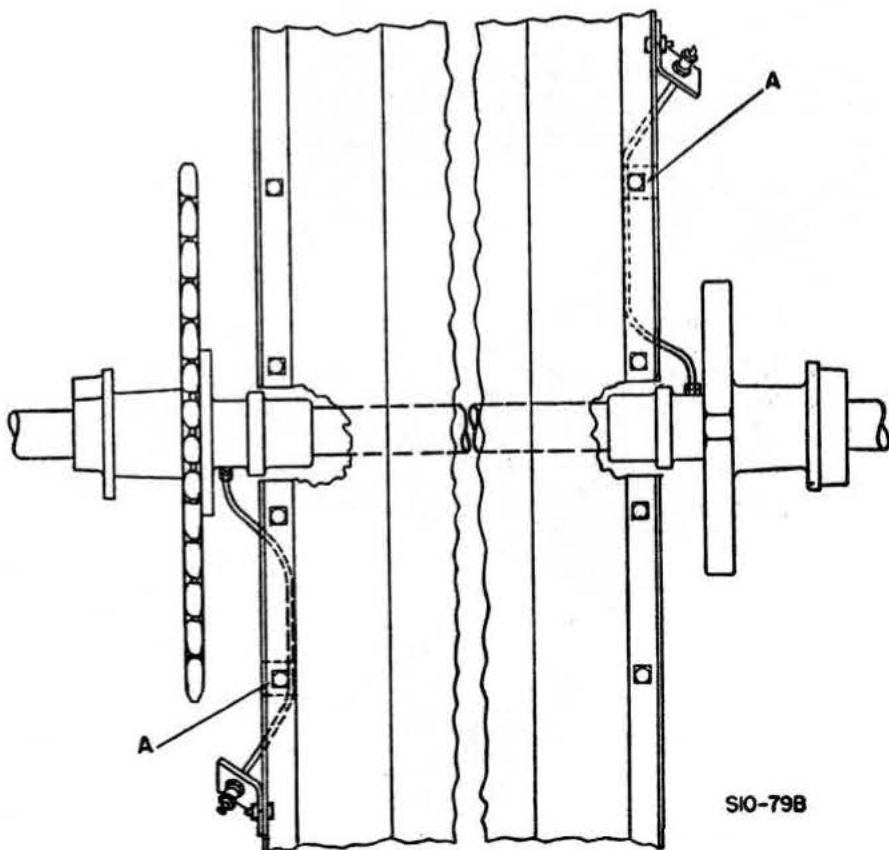


Fig. 2-A

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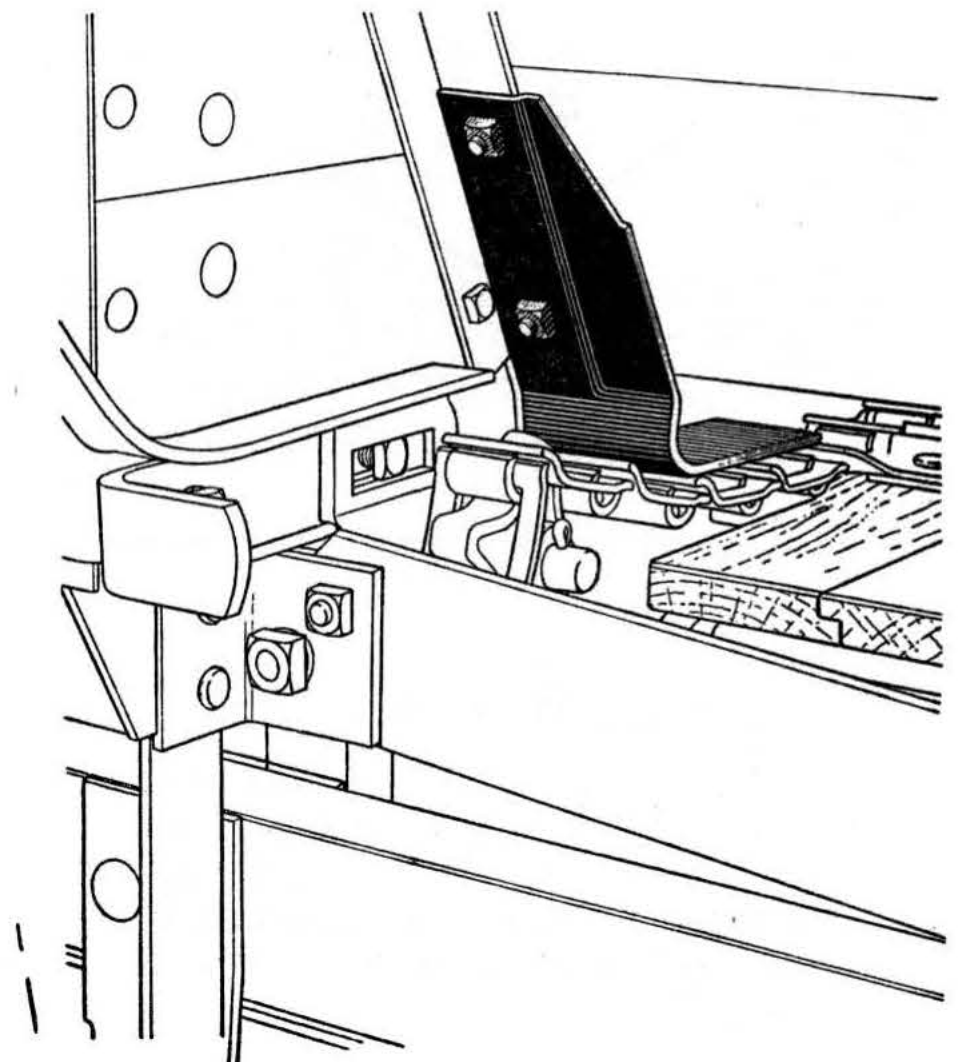


Fig. 3A

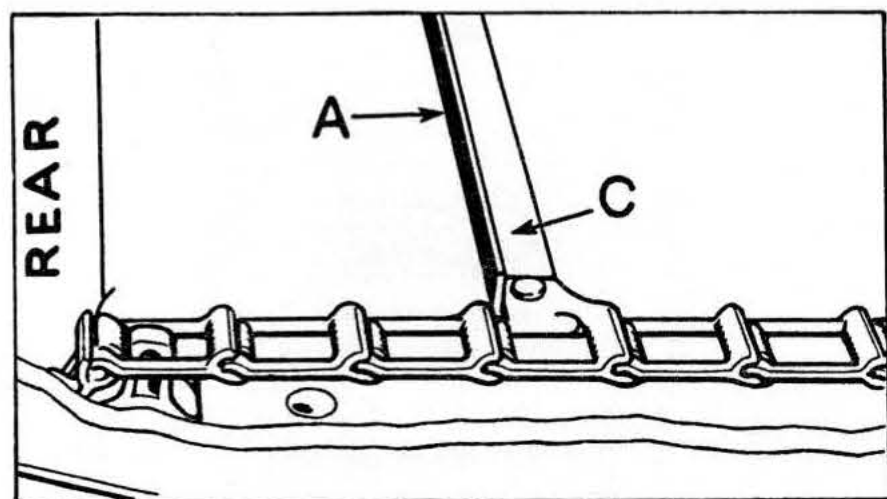


Fig. 4

### CONVEYOR IN CORRECT

The side near the feeding mechanism has been cut away to show the feed shaft and sprockets with the conveyor in the correct position. Note that the bar "C" has the wide portion "A" rearward or in the direction of the travel of the chain, thus pushing the manure rearward and toward the cylinder. This also gives the proper bracing to the riveting of the attachment links, preventing link breakage. A conveyor properly installed should never give any trouble.

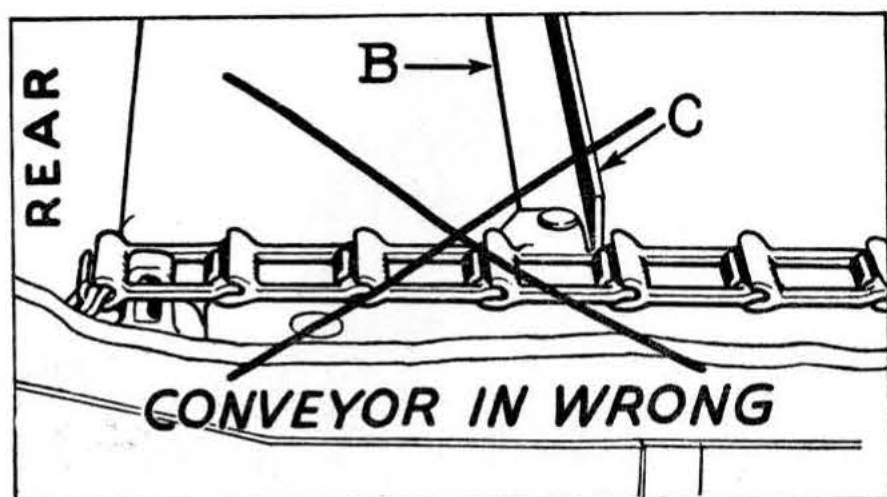


Fig. 5

### CONVEYOR IN WRONG

Here the bar "C" has the thin portion "B" rearward or in the direction of the travel of the chain. This gives no support to the rivets in the attachment links which could cause them to break on a heavy pull.

Next attach the footboard if spreader is equipped with horse drawn bundle. If spreader is to be equipped with tractor drawn bundle, install shims behind front conveyor idlers. Conveyor idlers are easily put in place if proper instructions are followed. Turn the conveyor so that the bars are about 6" from the front end of the bottom. Next take the conveyor idlers under the bottom and hook the sprocket into the end of the conveyor chain, raise it so the bracket is above the lip of the side sill, draw forward and bolt in place by the footboard support angle, (the bolts should be put in from the inside). The conveyor idlers and foot board support angles are held in place by the same bolts. Bolt the front conveyor hold down irons or chain slides to the lower front side of the endgate, Fig. 3A. The purpose of these irons is to hold the conveyor down on to the front end of the bottom. Then bolt the conveyor slides in place under the center of the bottom.

Remove the bars from the upper cylinder assembly and bolt the upper cylinder to the angle arch as shown in Fig. 6. Be sure the bearing plates are bolted to the outside of the arch and that these plates fit squarely on the arch. Insert the  $\frac{1}{8} \times 1\frac{1}{4}$ " nipple and coupling with angle fitting in the left bearing. Now bolt the upper cylinder bars to the head. Be sure the bolts are drawn up tight and that there are lock washers under all of the bolt heads.

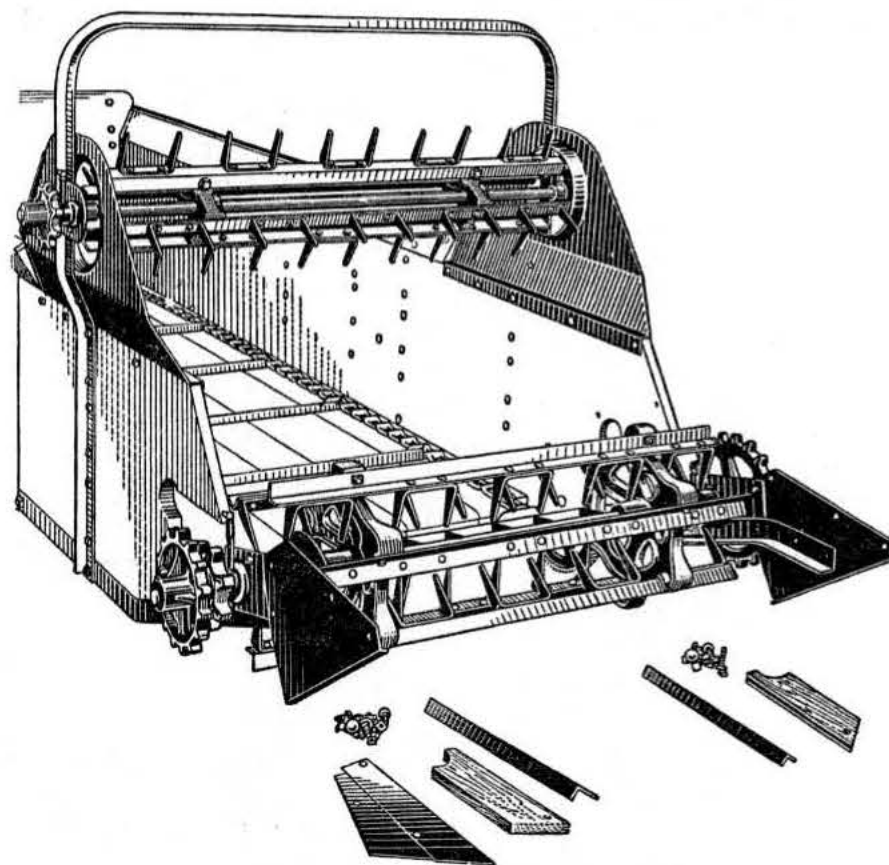


Fig. 6

Remove the rear end angles and other parts from the rear end of the sides so as to open up the slots to receive the lower cylinder as shown in Fig. 6. Lay the cylinder assembly on the side sills, with the two sprocket wheels to the left and the distributor sprocket wheel to the right. **Do not remove any of the sprocket wheels from the shaft.** Insert the  $\frac{1}{8}$  x 2" nipple and coupling with angle fitting in the left bearing. Now remove the bolts in the bearing plates, then slide the cylinder in place, making sure that the bearing plates are on the outside of the sides. Now replace the parts previously removed from the sides and then bolt the main cylinder bearing plates in place, first putting all bolts in loose. After the bolts are in place then draw each one up tight.

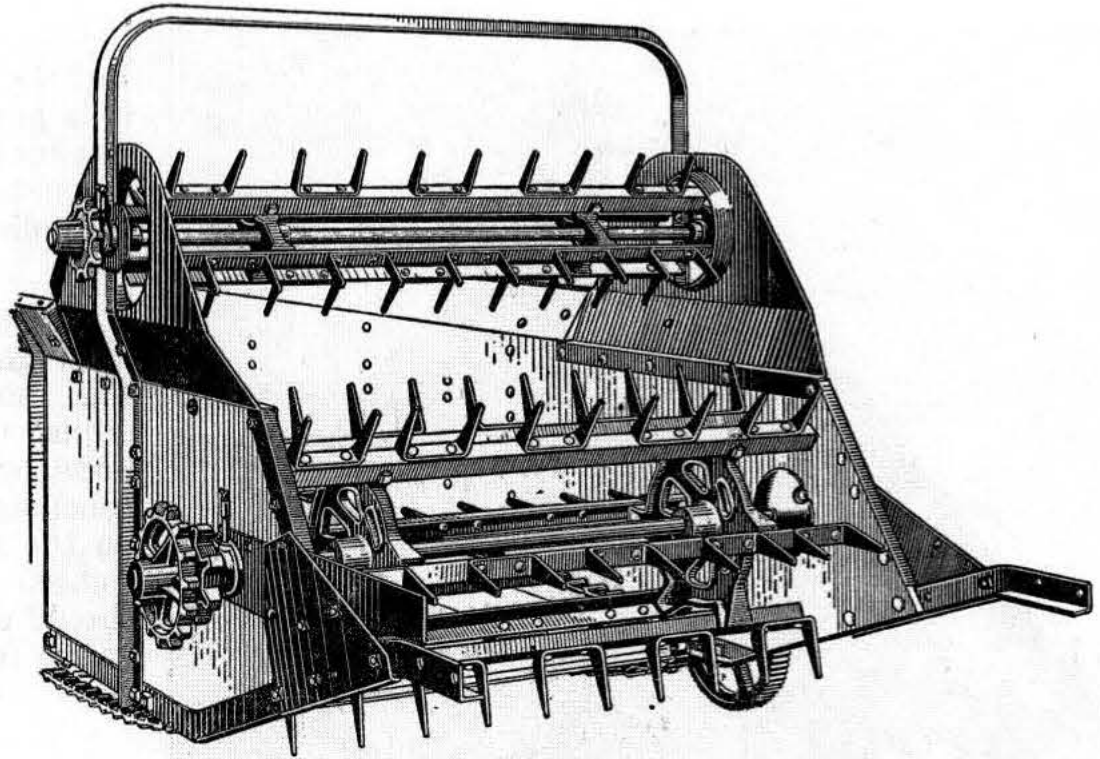


Fig. 7

Now turn the cylinder bars one at a time so that the teeth will stand outward. After turning the bars be sure to bolt it on the heads in the same place as it was before turning. Be sure that there are lock washers under each of the bolt heads. The finished assembly should now appear as shown in Fig. 7 and the bars on both upper and lower cylinders should stand in relation to each other as shown in Fig. 8.

Clean the end of the feed shaft carefully and insert the key in the shaft. Clean all paint from the bore of ratchet wheel and put the ratchet wheel on the feed shaft hub first so that the hub comes next to the bearing in the sill of the machine. The washer for the feed shaft is to take up end play if any. Use it if needed, otherwise not.

Clean all paint out of the bore of the feed arm casting and see that the oil hole is clear. Do not take any of the feed arm parts apart. Remove bolts from post of L-338A and start them in the sides from the inside of the bed so they protrude through the wood a little.

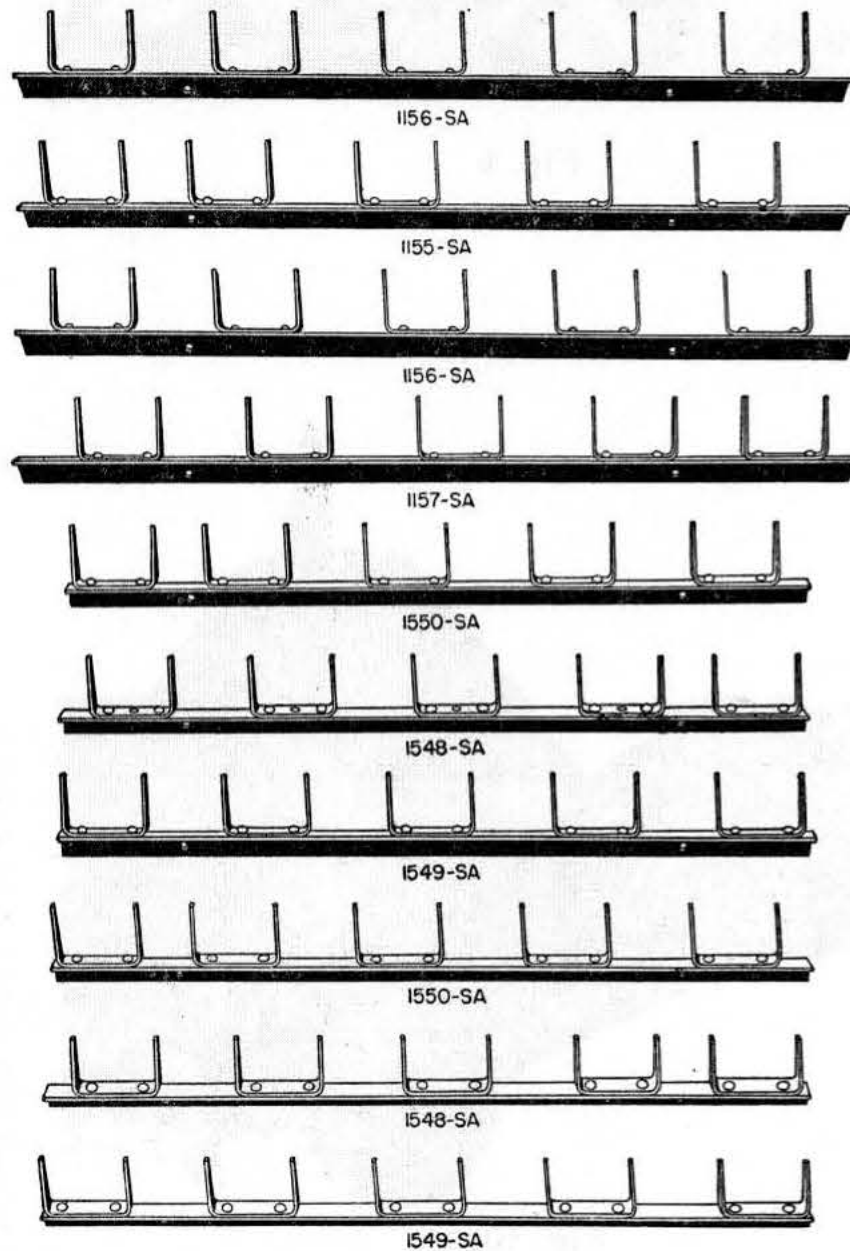


Fig. 8

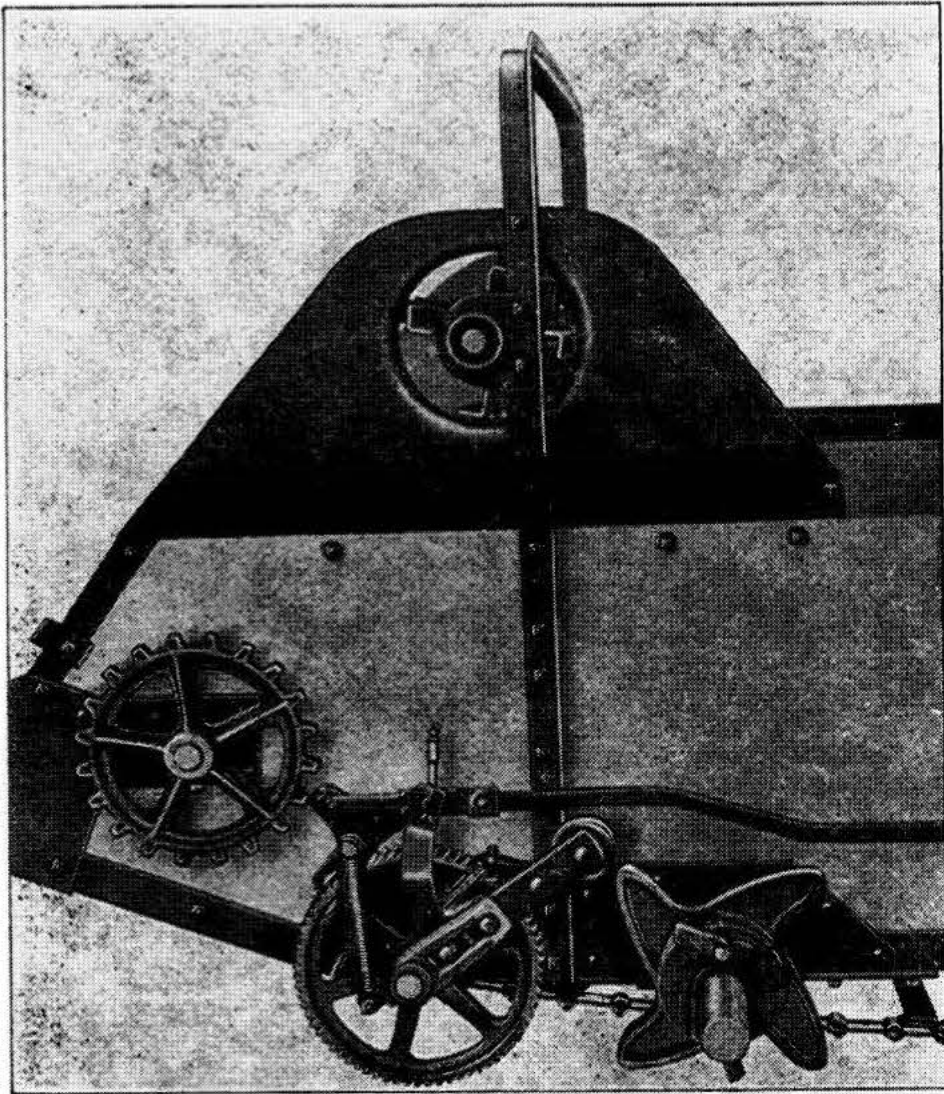


Fig. 9

Put the feed arm on the feed shaft, oiling the shaft as it is put on and be sure that it works freely. Bolt ratchet post L-338A in place. Oil feed arm bearing through oiler and also oil roller on each side and spin the roller so oil works into the bearing, see Fig. 9.

Bolt the feed rod, feed lever and feed sector [feed lever goes on inside of sector] in place as shown in Fig. 1 and connect the feed rod to the feed arm. Now adjust the feed. Place the feed lever in the second notch, which is neutral. Then with the feed arm roller touching the tip of any feed cam lobe, set the collar on the feed rod against the compression spring and tighten the set screws. The feed arm slide collar should slide freely on the feed rod. Be sure that the entire feed mechanism works freely in all respects.

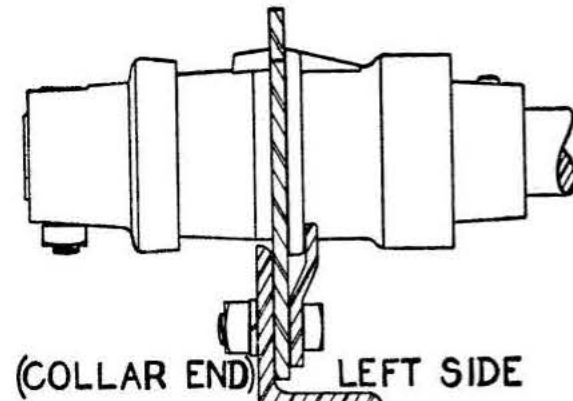


Fig. 9A

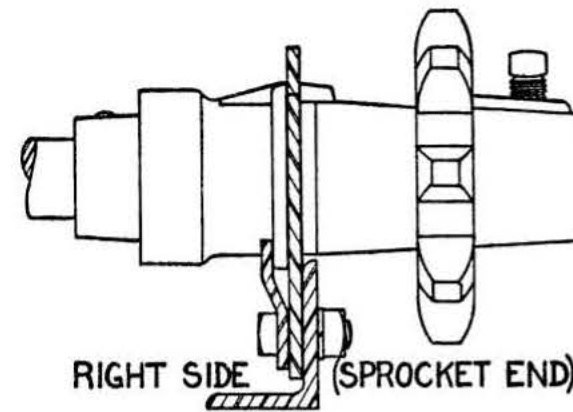


Fig. 9B

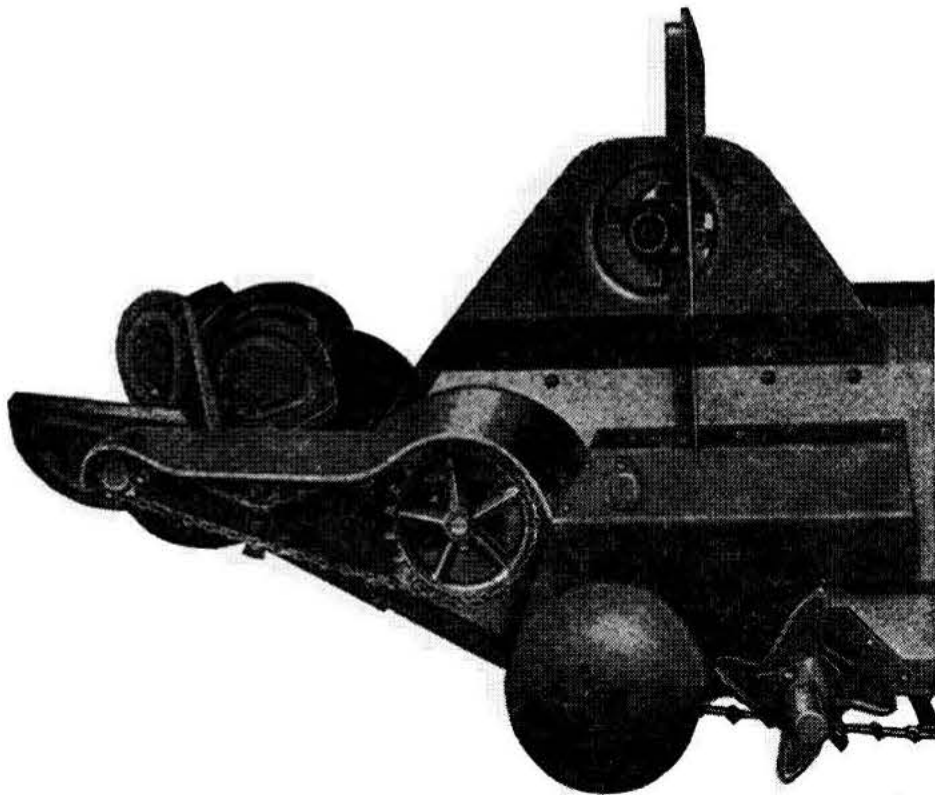


Fig. 10

Put the distributor in place with sprocket to the right, bolting the bearing plates to the rear side sills. The bearing plates are to go on the **inside** of the sill. See Figs. 9A and 9B. Be sure that there are lock washers under all of the nuts. Insert straight fittings in the bearings. Oil the upper cylinder, main cylinder and distributor bearings and turn all of these parts rapidly so that the oil works down into the bearings. Put on the distributor chain (44 links of No. 52 chain). The chain should be put on so that the open part of the link will be up and leading in the direction of travel, see Fig. 12. Now bolt all of the feed shields and distributor chain shields in place as shown in Fig. 10. When bolting the distributor chain shield in place, also attach the distributor chain tightener. Be sure to get the chain tightener on so that the lip of the slide is squarely underneath the side sill angle.

Now bolt the drive chain assembly, including the drive arm, auxiliary drive arm and chain straddler in place as shown in Fig. 11. Do not take any of the chain assembly apart as it is all properly assembled at the factory and is ready to bolt on. If chain is taken apart put it on the sprockets as illustrated in Figs. 11 and 13. Also attach the drive rod, drive lever and its sector. Then put the upper cylinder drive chain and its chain tightener in place (41 No. 52 steel links). Drive chain should be put on in the same manner as the chain for the distributor. See Fig. 12 for the proper method of putting on this chain.

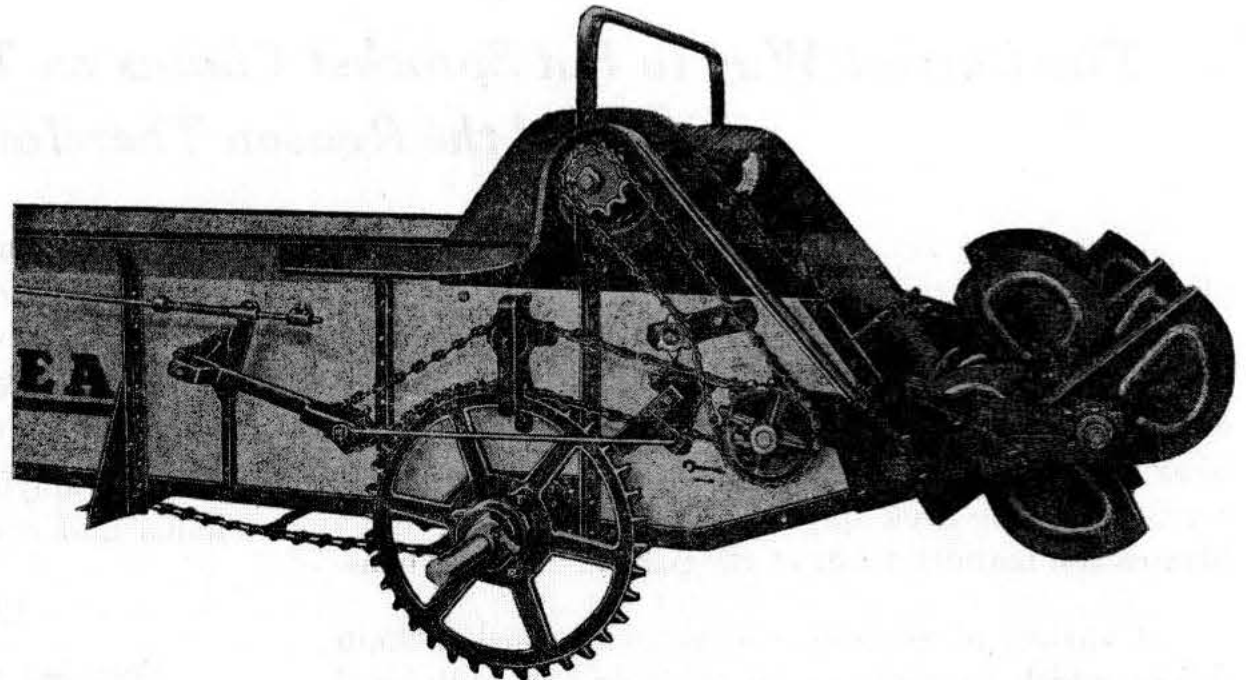


Fig. 11

Then bolt the drive chain shields in place as shown in Fig. 11.

Thoroughly clean all paint off both ends of the main axle and out of the rear wheel hubs. Be sure the oil holes are open and pack both the wheels with grease and put them in place on the axle but **make sure that the wire that holds the driving pawls in place for shipment has been removed.** If the machine is equipped with air tired wheels, it will be necessary to bolt the disc wheel to the wheel hubs. Be sure to draw bolts up tight. If desired the disc wheels can be removed from the hub and used on other implements if the machine is equipped with the proper type hubs. Put on the axle collar and pins and spread the spring cotters.

Go over the entire machine carefully and make sure that all parts are correctly put together and that all bolts where necessary have lock washers and all nuts are drawn up tight. Hurried and careless setting up and a few minutes time saved has often caused considerable trouble and expense to the user, dealer and manufacturer. Oil the machine generously and carefully and preferably run the machine empty so that the oil will work down into the bearings and lubricate every part. See that the main axle bearings are well lubricated before the machine goes into the field. Many bearings have been cut out because the machine was delivered with dry bearings. A new machine needs plenty of oil and checking to see that it reaches vital points. More machinery is ruined by careless wearing in of new bearings than by years of hard use afterwards. Oil the bearing seats and all minor moving parts.

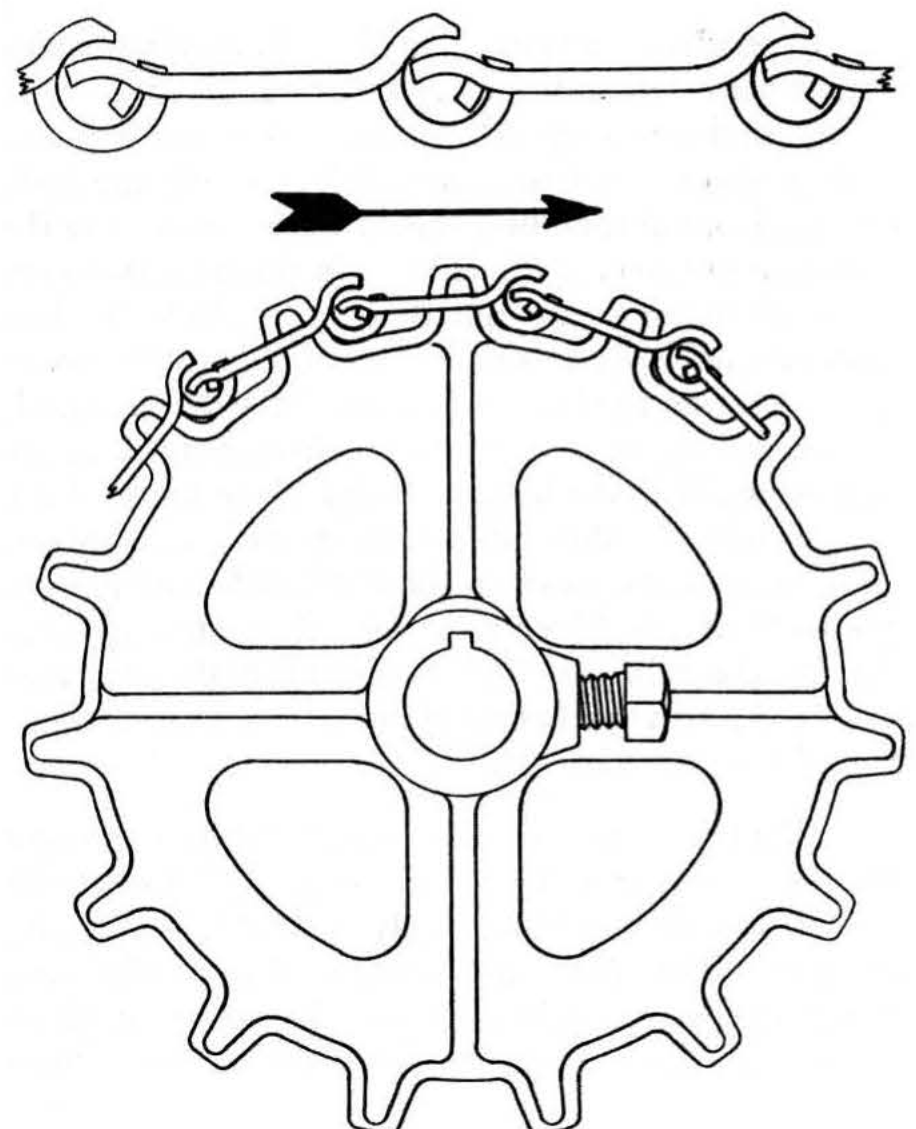


Fig. 12

## The Correct Way to Put Sprocket Chains on The New Idea Spreader and the Reason Therefore

There is a great difference of opinion among implement men as to **how the chains should be put on**. In the majority of instances chains are run without any regard to rules or good engineering practice and the result is that chains and sprocket wheels wear **unduly**, chains break, power is wasted, and the user, **failing** to check the chains with the instructions, blames the manufacturer of the particular implement.

A variety of conditions come up in sprocket chain drives which require careful analysis and individual treatment; but in the average chain drives, especially where the driven wheel is small in diameter and the driver comparatively large, the conventional rule is: "Run drive chain with **hook forward** and slot to the outside, for conveyor and elevator chains **bar forward** and slot to the outside." This rule applies to all the chains on the NEW IDEA No. 10A Spreader. On some other implements where the drive sprocket is smaller than the driven sprocket, the chain should be run with the bar of the link forward and the slot to the outside.

Now what is meant by saying: "Run drive chains with hooks forward and slot to the outside?" It means that where chains are used to transmit power from a larger driver to a small driven wheel, the hook or barrel end of each link should travel forward in the direction of travel of the chain. In this way, the chain as it disengages the small wheel, which it does under strain, **does not** cause any rubbing with consequent wear on the links and teeth of the driven wheel; however, if the chain in this same drive is run with the **bar forward** it would have to leave the tooth of the driven wheel under full strain in rubbing contact, causing excessive wear on the chain links and also on the teeth of the driven sprocket. Thus, in the chains driving the cylinders and distributor make sure that the links run **hook forward** in the direction of travel and slot to the outside.

What is meant by the rule "Run Conveyor Bars Forward and slot to the outside?" Conveyors do not have driven wheels, only a driver, the wheels at the other end are idlers. So in this case apply the above rule and run the conveyor chain so that the links come **bar forward** in the direc-

tion of travel and slot to the outside. In this way the links disengage with rolling contact off of the driving feed sprocket wheels, thus giving ready release which is desirable especially since the feed wheels are frequently filled with particles of manure.

By applying these rules it will be found that the chains and conveyor will operate satisfactorily.

### LUBRICATING CHAINS

Very few chains running on implements are lubricated, yet when it is considered that these chains transmit all the power and since these chains are nothing but a series of joints bending around the different small sprocket wheels under strain, it would seem strange that so much care is put on lubricating bearings and none on the chains. A properly lubricated chain transmits the power with much less loss than a dry running chain and wears considerably longer. Complaints are sometimes made that chains running in the open are susceptible to dust and grit if lubricated. This is not near as bad as generally imagined, however, it is better in such cases to use a lubricant that is not so susceptible to collect dust and grit, than to run chains dry. Put chains on correctly and then keep them properly lubricated with a suitable lubricant.

To get long life from a spreader conveyor it is good practice to occasionally clean it thoroughly and apply a lime solution and then slush oil on both the chain and bars. The lime acts as a neutralizer of the corrosive action of manure acids and the oil as a lubricant.

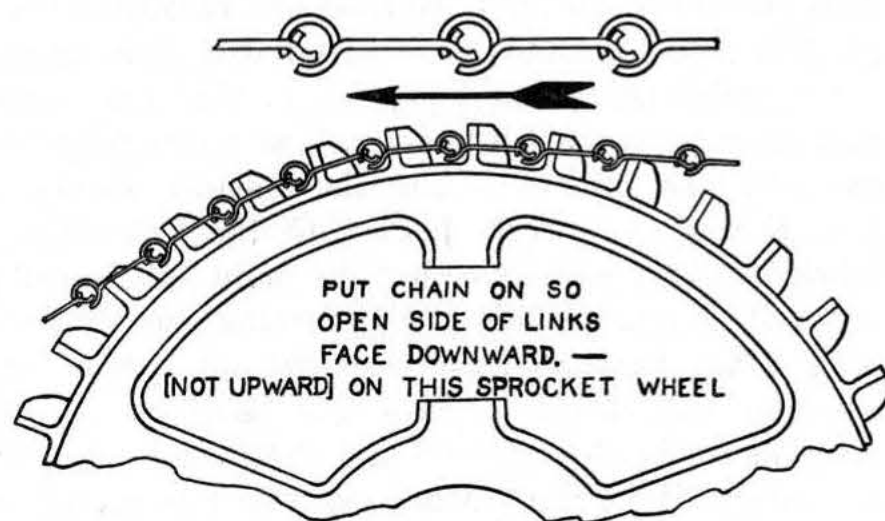


Fig. 13



## ADJUSTING AND OPERATING

### Read This Before Using A New Machine

Be sure to lubricate the axle bearings before the machine is ever moved. Give each axle bearing a very generous greasing.

Before using, take a pressure gun and force grease in all fittings, (see pages 14 and 15). Also oil all such parts that move in any way. Put plenty of oil everywhere and break the machine in well. Preferably when greasing turn the machine by hand to work the grease down into the new dry bearings. Also oil the sprocket chains that drive the machinery and keep them oiled.

There are two small oil fittings one for each feed shaft bearing under the bottom, also one for the angle feed bearing. Use the grease gun on all three.

In ordinary usage the machine should be greased twice daily when machine is used all day. If used at intervals grease in proportion. **Also give the minor working or moving parts including the chains a generous oiling frequently, so nothing runs dry.**

Before starting to use a new machine it pays to go over it to see that it is properly set up and all bolts are tight and adjustments properly made.

#### ADJUSTMENTS

Keep the end play out of both main wheels. To check feed mechanism for correct adjustment, place the feed lever in the second notch, which is neutral. Then with the feed arm roller touching the tip of any feed cam lobe, set the collar on the feed ram against the compression spring and tighten the set screws.

If the drive chain does not lift up high enough to clear the teeth of the big sprocket wheel properly, adjust the collar on the drive rod, setting it so that the chain will lift up to the proper height. When in gear the spring tension on the drive rod should be adjusted to hold the drive arm down and the chain taut.

#### LOADING

Next, proceed to load. There is no fixed method of loading. The best results are usually obtained by

starting to load at the front end, especially in long straw manure. To get good results do not pile any manure into the cylinders. The height of the load depends upon the condition of the manure, the condition and nature of the field. In ordinary barnyard or stable manure a load loaded to pass under the rear arch, rounded on each side, will do a nice spreading job and will not overload the machine. Do not put on extra side boards. Be satisfied with the capacity of the machine and do not abuse it. Overloading will be the cause of loss of time sooner or later.

#### SPREADING

When ready to spread, stop forward motion and put the drive chain in gear, and set the feed lever to feed. We say, "Stop forward motion to put the drive chain in gear"—it takes but a moment to do it and prevents a severe jolt to the entire machine.

When about through spreading a load, a little manure stays in the bed. Shift into the heavy feed for the last rod or so, and throttle down the tractor, this then cleans the bed. When the machine is empty disengage the drive and then the feed. Make a practice of this so the feed will **always** be disengaged when the machine is empty, otherwise in driving to the field the next load will be forced into the cylinders and cause breakage of the key in the ratchet wheel, which is the safety. In that event, the ratchet wheel must be taken off and a new half moon key put in. This key will never shear off from ordinary use. The operator either forgot to disengage the feed, or the adjustment on the feed rod slipped and did not give the  $\frac{1}{4}$  to  $\frac{1}{8}$ " clearance required. An extra key is furnished with every machine.

#### GENERAL

Chain tighteners should be set up when chains get too loose. There is an adjustment on the conveyor, which after considerable use, can be taken up. Tempered steel chain will not stretch or wear when used throughout.

## LIME AND MARL SPREADING ATTACHMENT

Figures 14 and 15 clearly illustrate how the lime spreading attachment should be attached to the spreader. As will be noted the lime spreading attachment is driven by removing the upper cylinder chain and placing it in position for driving the attachment. When loading lime into the spreader the endboard should be placed in front of the tine rake. This is for the purpose of preventing lime from losing out of the rear when driving to the field. The grooves on the endboard indicate the level of the load in the spreader bed. These figures are based on agricultural lime. When ready to spread, the endboard should be removed and hung over the top of the side so the board is on the outside of the machine and then the feed lever should always be set in the first or second notch.

To remove the lime spreading attachment, take off the chain and remove the four bolts that fasten the disc assembly to the hangers. It is not necessary to remove the hangers as they will not interfere with the manure spreading. To remove the tine rake take out the bolts that fasten the tine rake to the side and flare shields of the spreader together with the brackets that support the tine rake. Wire all of these brackets and supports together so that they will not be lost or mislaid.

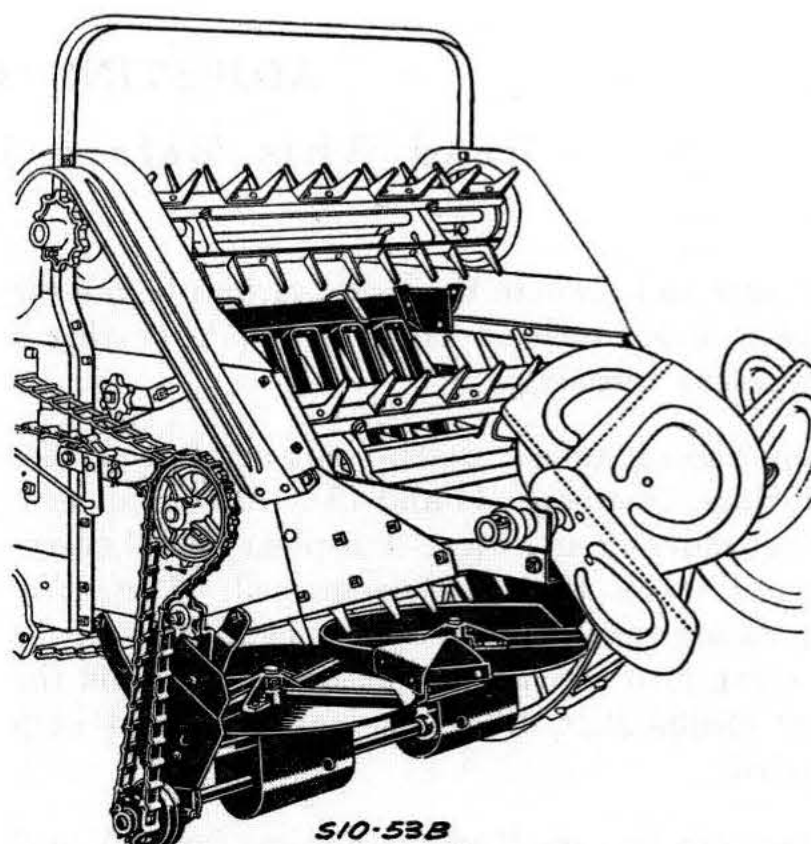


Fig. 14

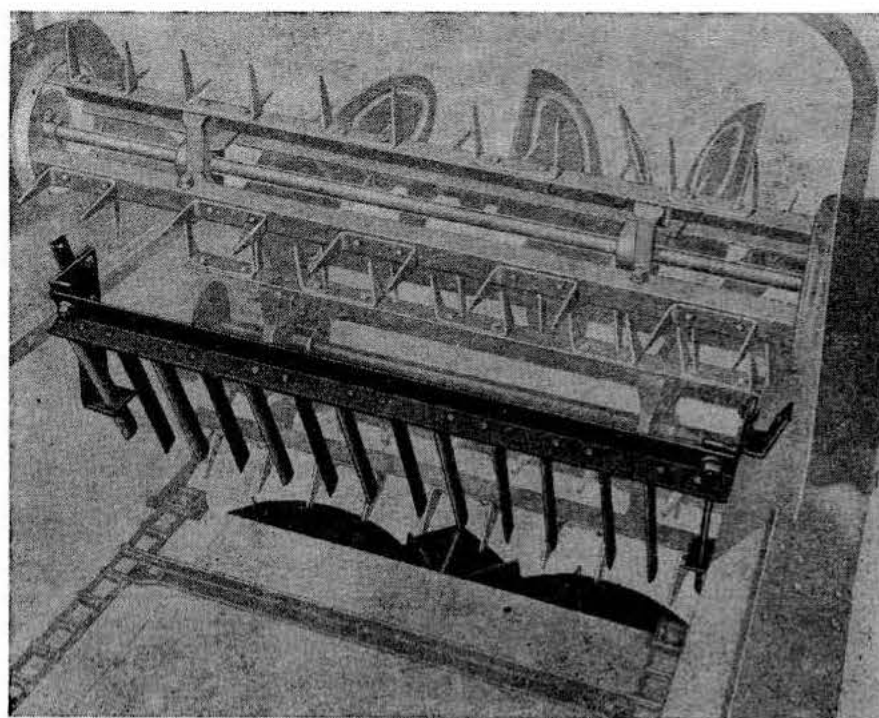
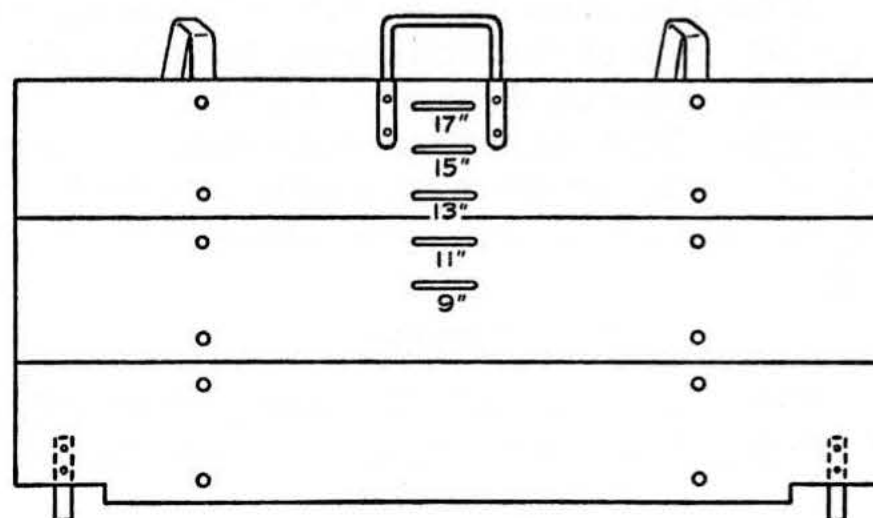
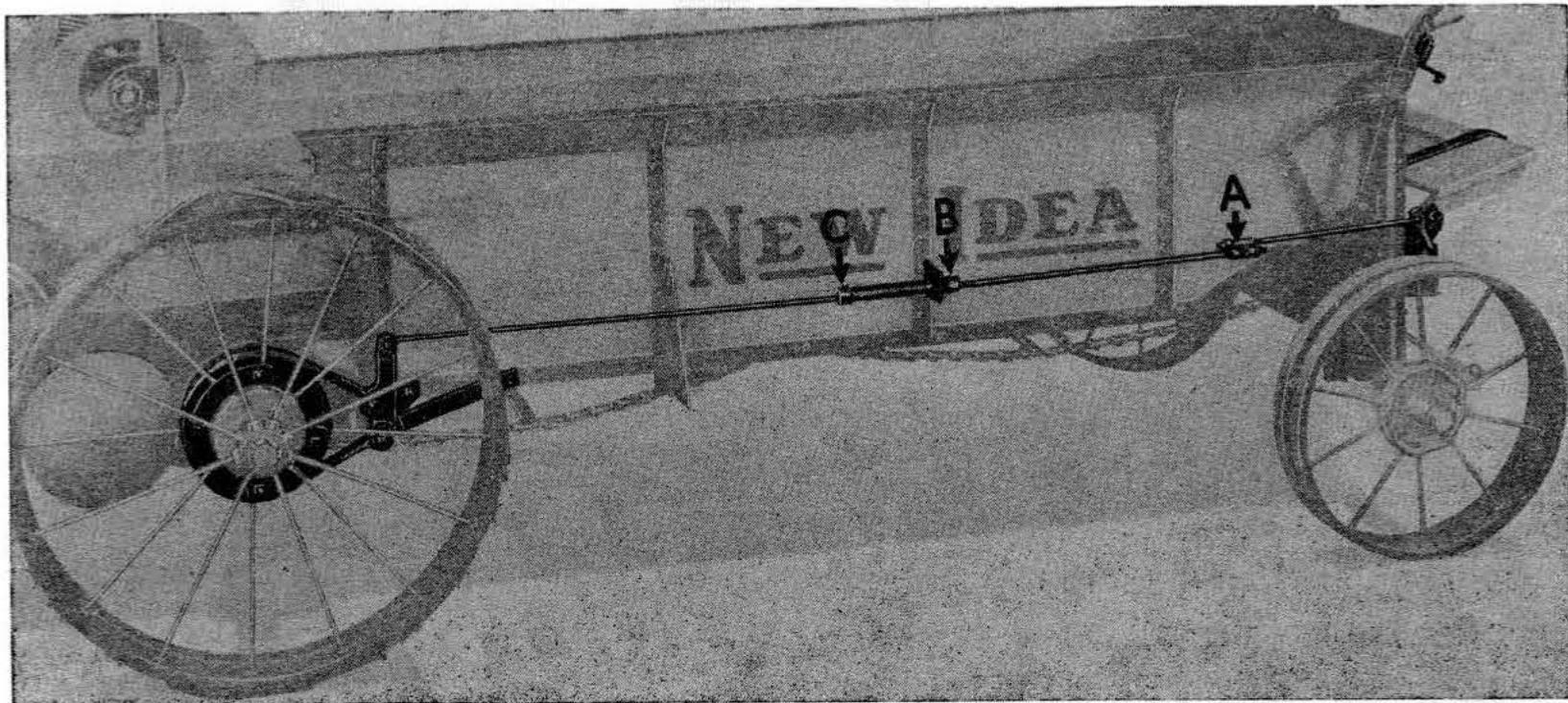


Fig. 15

—17"	—2.02—	—2.78—	5.56—
—15"	—1.78—	—2.41—	4.82—
—13"	—1.55—	—2.14—	4.28—
—11"	—1.31—	—1.81—	3.62—
— 9"	—1.07—	—1.48—	2.96—
↑	↑	↑	↑
LOAD	MUST BE	LEVEL	
HEIGHT	TONNAGE	1st NOTCH	2nd NOTCH
OF LOAD	PER LOAD	TONNAGE	PER ACRE

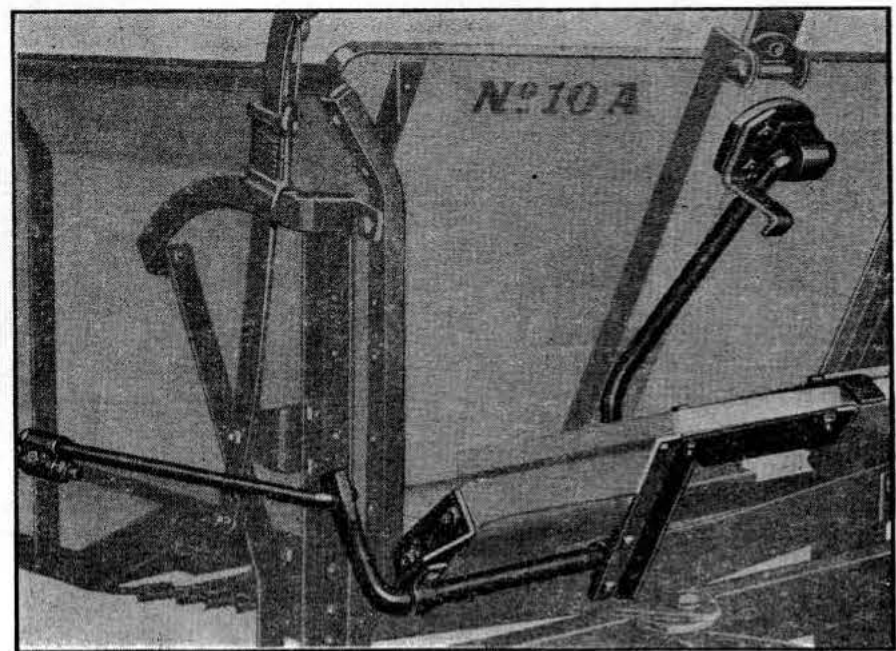


**BRAKE**

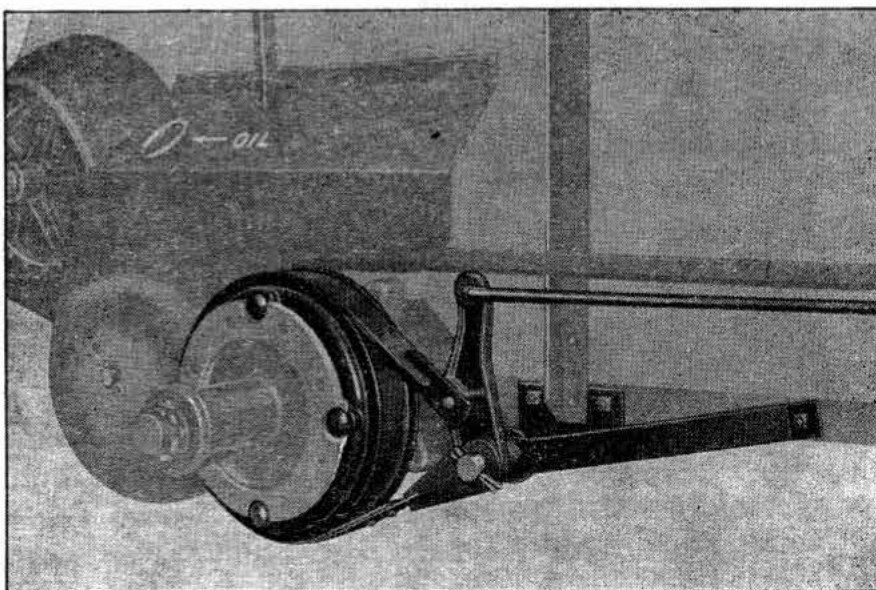


**Fig. 16**

Illustrations are self-explanatory, Figs. 16 and 17. It is necessary to drill two holes to attach the foot pedal latch and support angle to the foot board. Locate the foot pedal latch and angle support bearing by the one hole that will be found in the foot board and drill in the other two holes necessary in order to attach these two parts. Be sure the bent end of the latch is down and over the front edge of the foot board as shown. The brake can be tightened by loosening the bolt in clamp "A" and tightening the nut on the rod after which the clamp should again be tightened by the bolt. The position of the brake pedal can be adjusted by the collar "B" and the spring tension by the collar "C".



**Fig. 17**



**Fig. 18**

See Fig. 18 for attaching brake to spreader equipped with air tired wheels. Be sure cast ring is in place as shown.

## TAIL BOARD ATTACHMENT

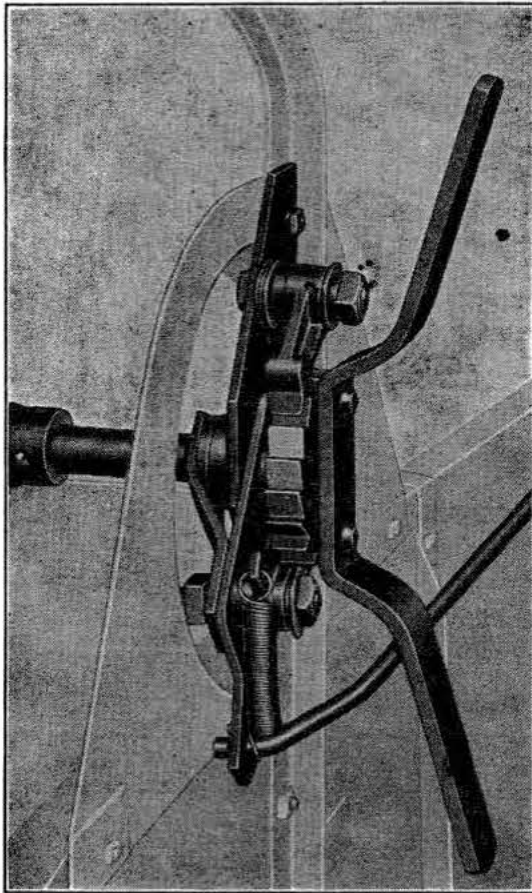


Fig. 19

Remove the entire upper cylinder assembly from the machine as none of these parts are needed when the tail board attachment is installed.

Place the raising lever shaft with its gears and brackets in place and bolt the left bearing bracket to the angle iron arch. Then remove the hand lever with its ratchet and bearing plate from the raising shaft and strip the small flat brace (with bend to the outside) and the spacer washer on the raising shaft. Replace the bearing plate with the locking pawl on the shaft and bolt to offset brace. Replace hand lever and ratchet. Then bolt right bearing plate to arch. The finished assembly should appear as in Fig. 19.

Tail Board front raising lever is attached to the same place that the feed lever is attached; using the longer bolt which will be found with the attachment. The lever guide is attached to the same bolts that hold the lever sector in place. Hook the rod in the lever and plate, having the ratchet pawl so the long

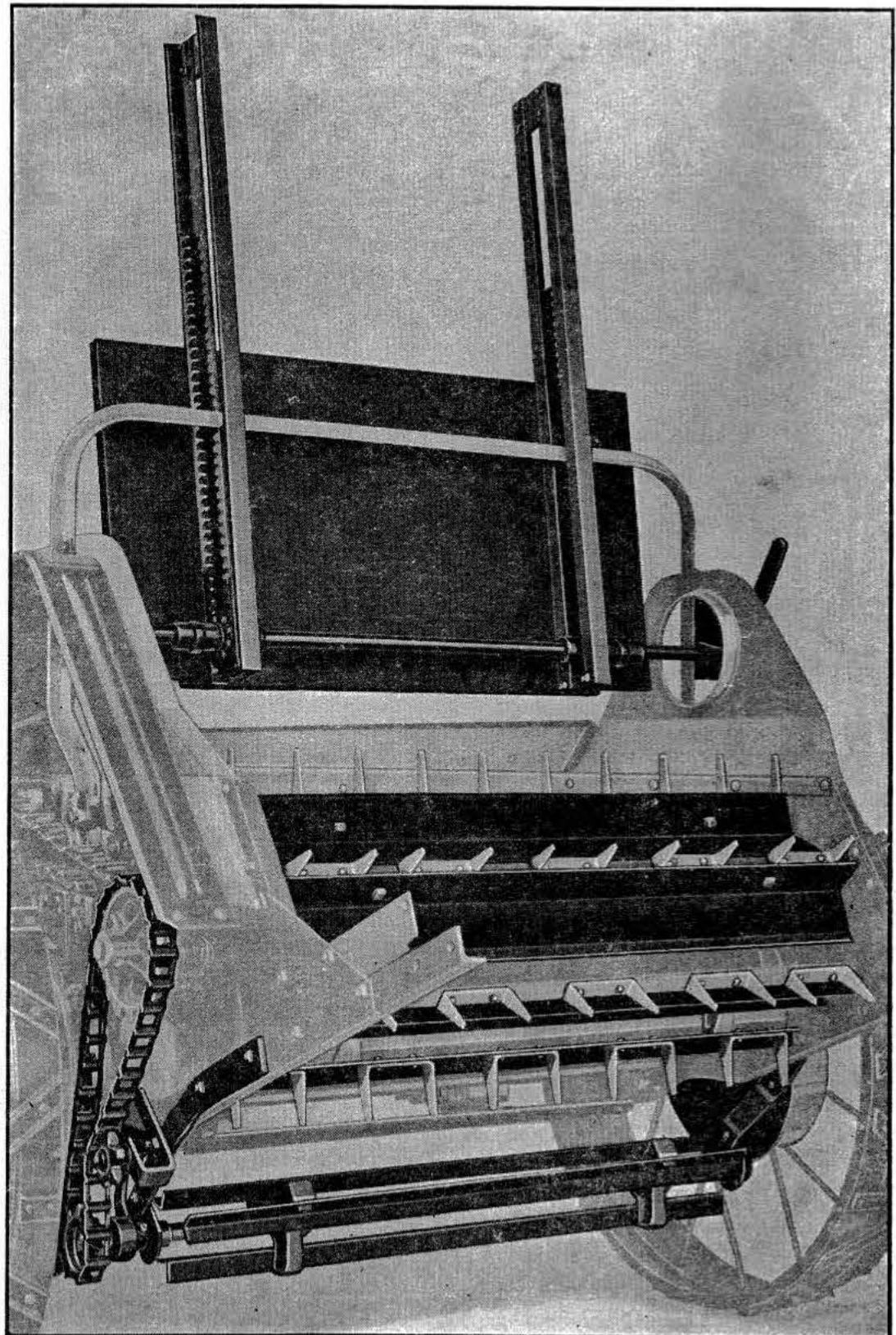


Fig. 20

bend in the rod is toward the rear. Drill two holes in the flared side board of the spreader near the side angle and attach the rod guide as shown.

Remove the tail board tie pieces and strip the tail board over the arch and raising shaft so that the gear rack and tail board are in front of the raising shaft, (facing the endgate). See that the gears are evenly placed in the rack so that the tail board works straight up and down and then replace tie pieces.

Bolt filler pans to main cylinder so that the short side always lies against the cylinder bar using the same bolts that hold the cylinder bars in place. Then bolt the special beater furnished with the tail board attachment and its bracket to the underside of the spreader as shown in Figs. 20 and 21, put the drive chain in place. The same chain is used as is ordinarily used for driving the upper cylinder. Adjust the chain tightener for proper tension. The piece of belting furnished with the attachment should be bolted to the lower end of the front endgate.

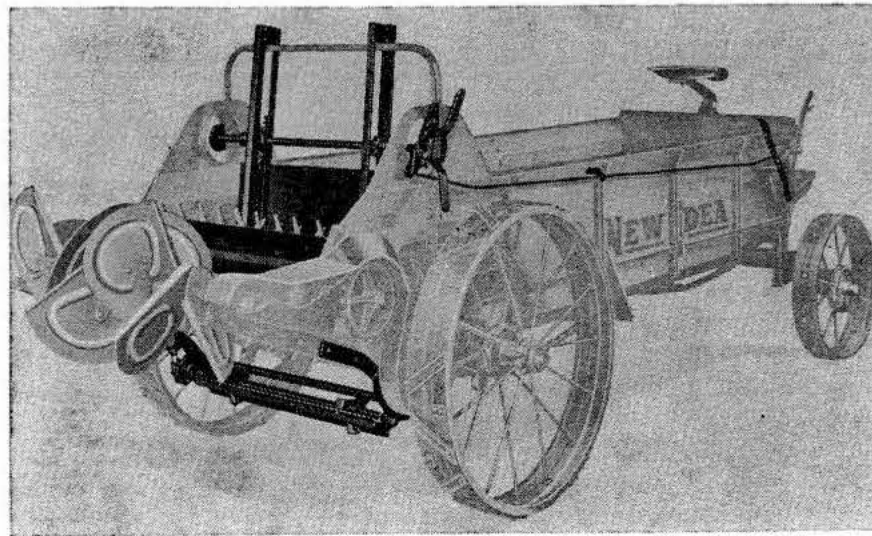


Fig. 21

### THREE HORSE HITCH

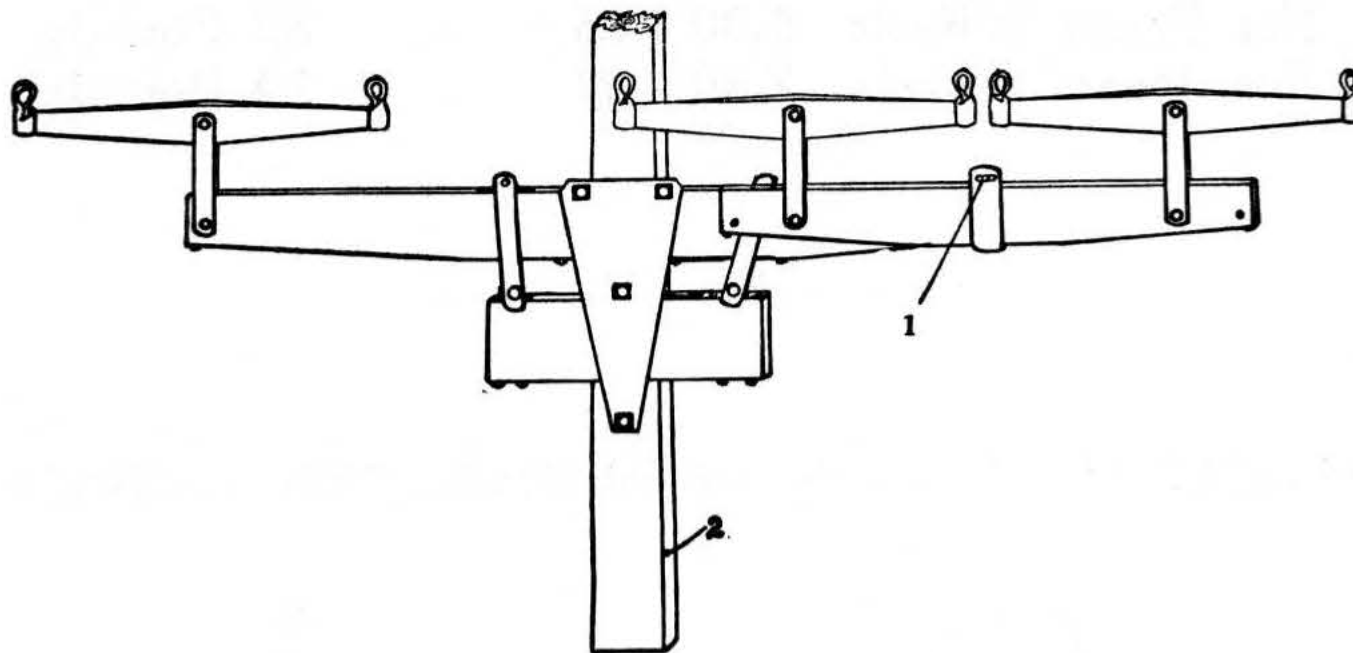


Fig. 22

Take out the  $\frac{1}{8}$ " pole pin at 2, Fig. 22 and replace with a  $\frac{5}{8}$ " doubletree pin, to get rigidity into the pole connection. Use the  $\frac{1}{8}$ " pin afterwards for a doubletree pin at 1.

Remove hammer strap and two horse hitch and attach three horse hitch by using the two holes by which the doubletree and hammer strap were attached. Ream out the  $\frac{1}{2}$ " hole to which the hammer strap was bolted to a  $\frac{5}{8}$ " hole.

The U strap goes under the pole. It is necessary

that all four bolts are drawn up tightly as all have spacer bushings. This then holds the hitch securely to the pole.

Attach two horse doubletree to the three horse member, as shown at 1 and move the singletrees to the inner holes.

This puts the two horses on the right side and the single horse on the left side of the pole. Attach the neckyoke in the first hole of the pole so the longest end is toward the single horse.

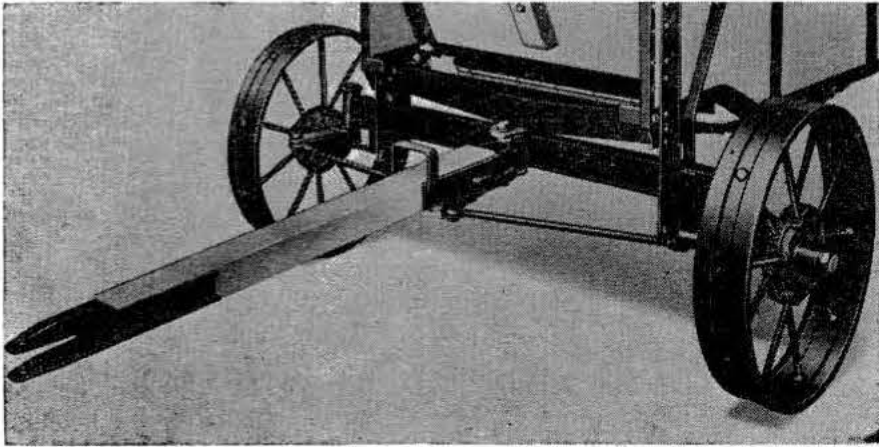


Fig. 23

### TRACTOR HITCH

A tractor hitch can be furnished where desired. When a tractor hitch is used the user must be careful in backing as the tractor is very likely to back the machine in an opposite direction from where it is wanted, causing damage to the steering mechanism on the front truck. This applies to other implements as well. See Fig. 23.

---

### INFLATION PRESSURE FOR RUBBER TIRES

For Front Wheels	5.90 - 15	-	32 Pounds
For Rear Wheels	7.50 - 24	-	24 Pounds

---

### NUMBER AND POSITION OF PRESSURE TYPE FITTINGS

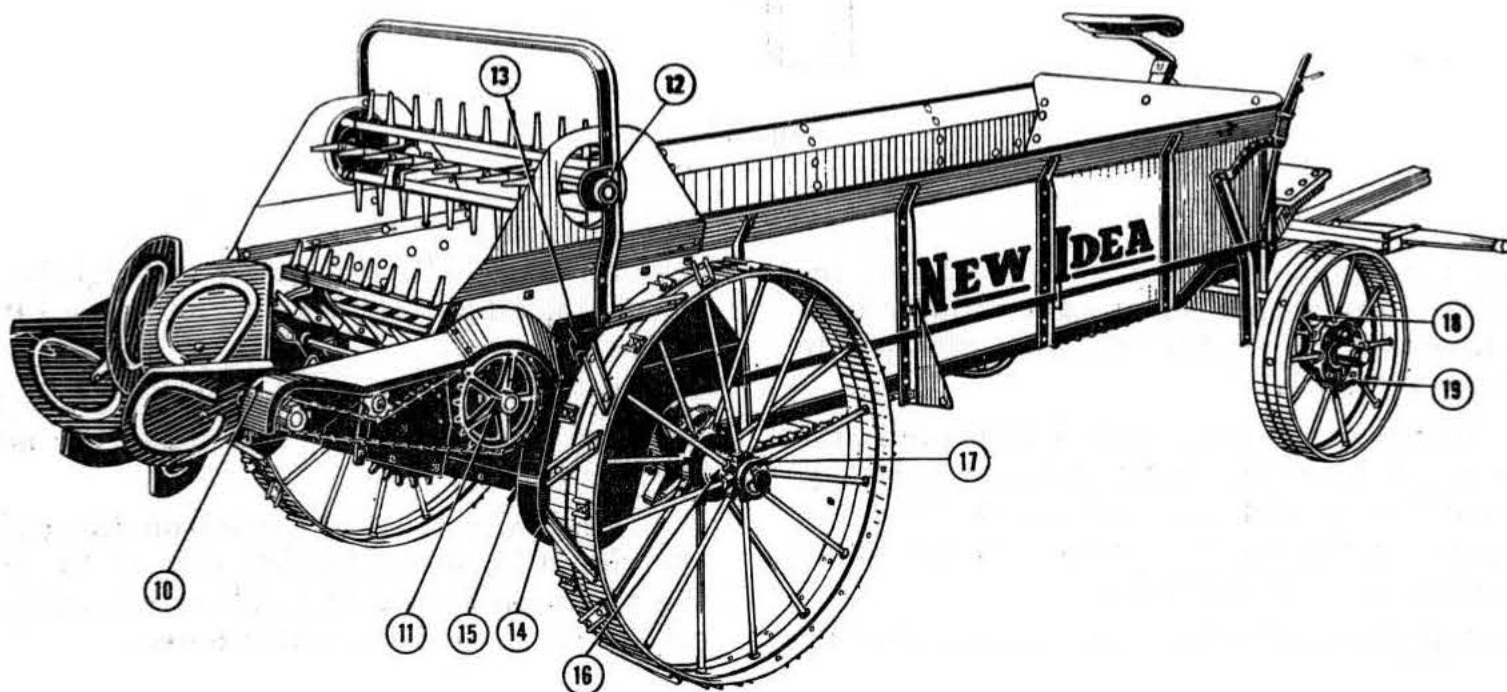


Fig. 25

NUMBER AND POSITION OF PRESSURE TYPE FITTINGS (Con't)

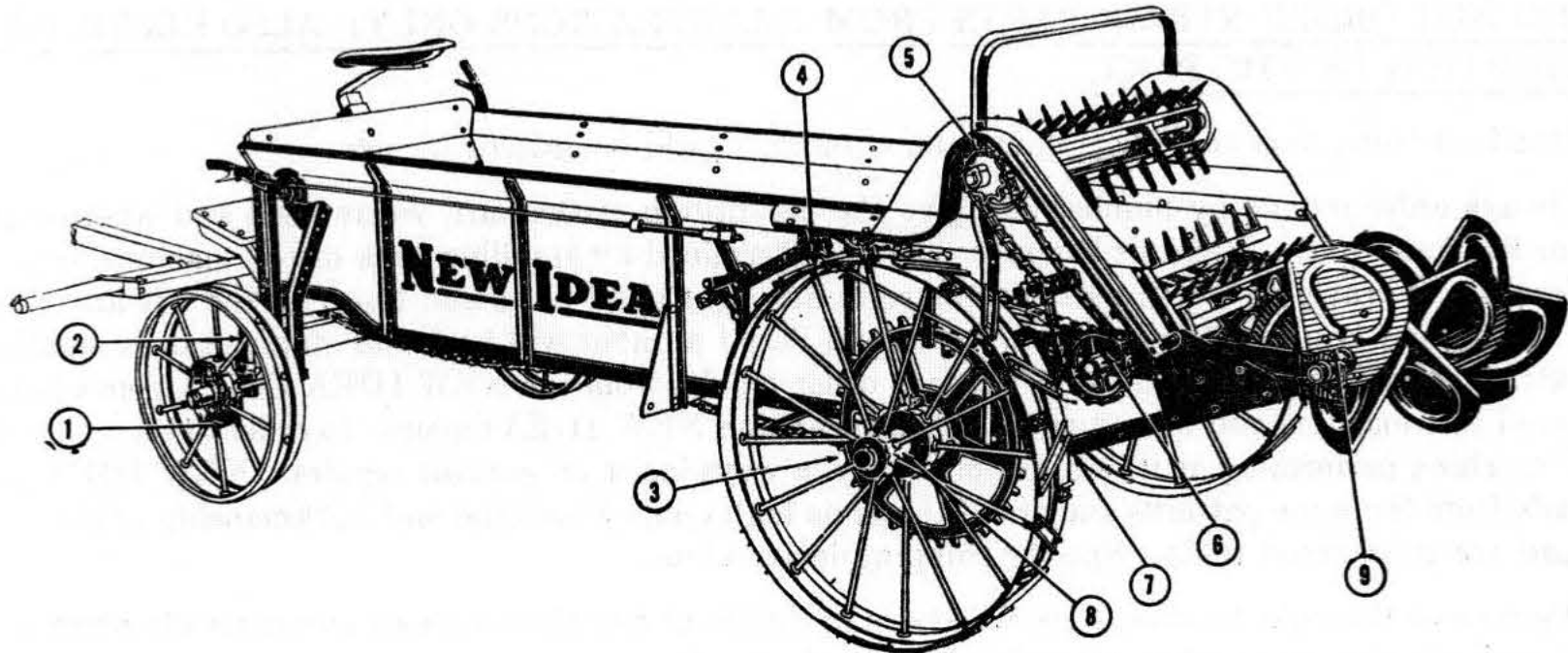


Fig. 26

Give the machine a thorough lubrication and be sure to find all of the grease fittings. Start at the left front wheel and proceed as follows:—

Position	Number of Fittings	Position	Number of Fittings
1 Left front wheel hub.....	1	11 Right main cylinder bearing.....	1
2 Left pivot axle bearing.....	1	12 Right upper cylinder bearing.....	1
3 Left rear axle bearing.....	1	13 Angle feed shaft bearing.....	1
4 Drive arm sprocket.....	1	14 Feed arm bearing.....	1
5 Left upper cylinder bearing.....	1	15 Right feed shaft bearing.....	1
6 Left main cylinder bearing.....	1	16 Right rear wheel.....	1
7 Left feed shaft bearing.....	1	17 Right rear axle bearing.....	1
8 Left rear wheel.....	1	18 Right pivot axle bearing.....	1
9 Left distributor bearing.....	1	19 Right front wheel hub.....	1
10 Right distributor bearing.....	1		

Give all the other moving parts as well as the chains a thorough lubrication with machine oil.

**FOR LIME ATTACHMENT**

- 1 In clutch
- 1 Chain tightener sprocket
- 5 Main shaft bearings
- 2 Vertical spindle bearings

**FOR ENDGATE ATTACHMENT**

- 1 Right bearing for cylinder under bottom
- 1 Left bearing for cylinder under bottom
- 1 Chain tightener sprocket

# REPAIR PARTS LIST

The following pages contain parts list and illustrations of "exploded" views of the various units so that parts wanted may be easily located.

**DO NOT ORDER REPAIR PARTS FROM ILLUSTRATIONS ONLY; ALSO REFER TO THE DESCRIPTION OF THE PART.**

Standard bolts, nuts and rivets having no number, should be ordered by size.

Always order repairs by number and give the description of the part, where used and whether it is a right or left hand part. Right or left parts can be determined by standing back of the machine looking in the direction of travel and then parts on the right are right hand parts and those on the left are left hand parts. Also give Lot and Serial number. Lot and Serial number will be found stamped on a small metal plate attached near front of right side. Always order repairs from the NEW IDEA Dealer from whom you purchased this machine and be assured of getting genuine NEW IDEA repairs. In order to keep your NEW IDEA machine performing at its highest efficiency, always insist on genuine repairs. NEW IDEA repairs are made from the same patterns and are of the same high quality material and workmanship as the original part and are guaranteed to fit. Specify shipping instructions.

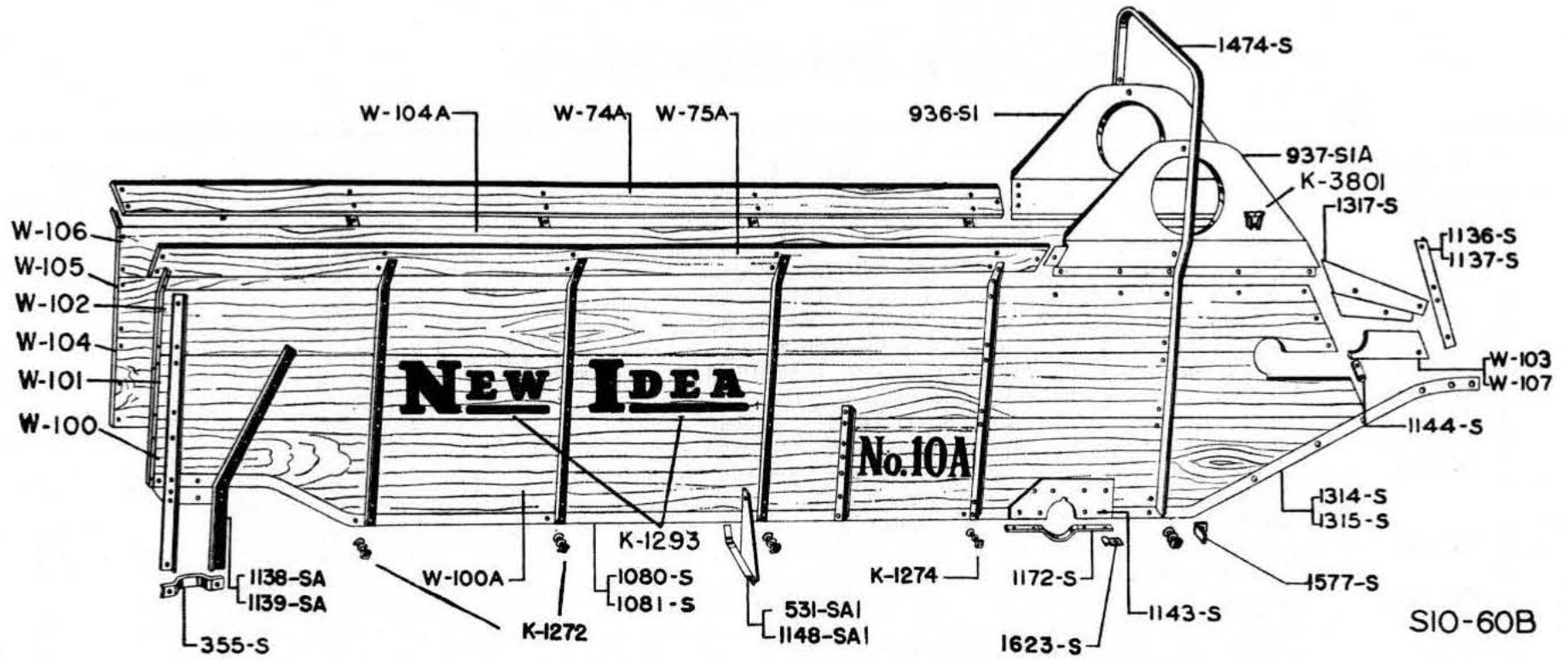
We reserve the right to change specifications or design at any time without incurring the obligation to install such changes on machines previously manufactured.

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SIDES AND ARCH

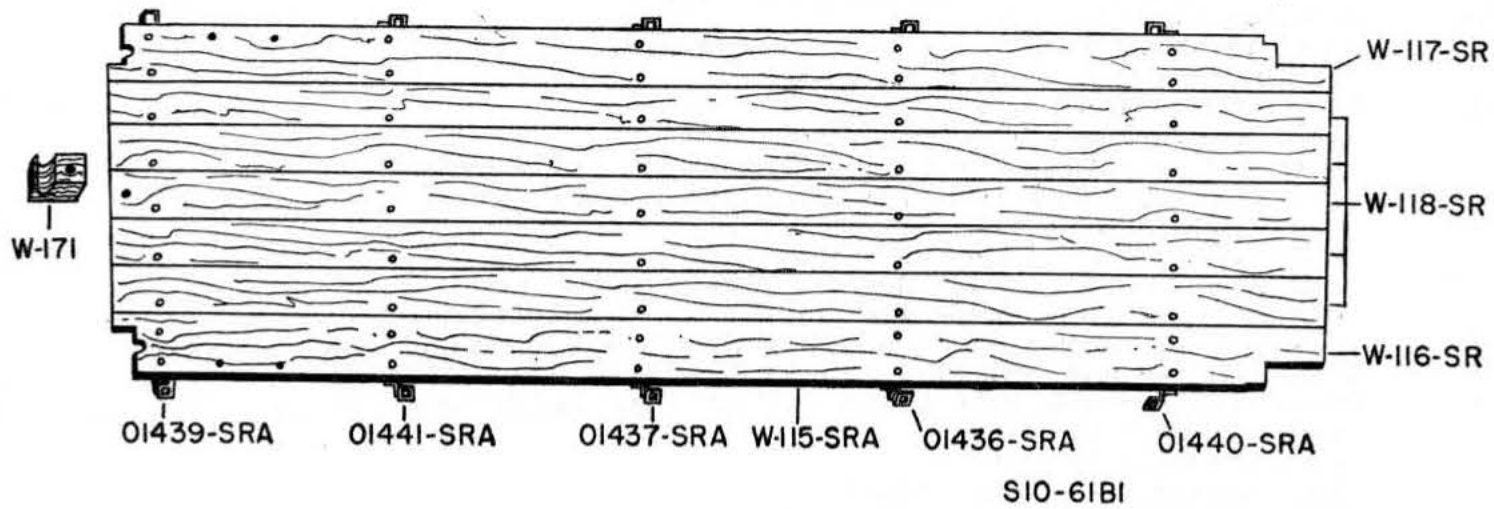


Part No.	Description	Wt. Lbs.
K 1272	Bolt for attaching sides to bottom, 1/2 x 1" long, special carriage (9 used)	2 oz.
K 1274	Bolt for attaching side to bottom, 1/2 x 1-1/4" long, special carriage. Right side second from rear only	2 oz.
K 3801	Light bracket, Rivet, truss head, 1/4 x 7/16"	
355 S	Rivet, truss head, 3/16 x 3/8" Pivot axle guide tie strap, 1-1/4 x 1/2 x 1/8" channel, 6-1/4" long.	1-1/4
531 SA1	Bolt, machine, 3/8 x 7/8" with lock washer (2 used). Side brace complete, left.	4-1/2
936 S1	Bolt, machine, 1/2 x 1" with lock washer. Upper cylinder shield, right.	5-1/2
937 S1	Bolt, carriage, 5/16 x 1-1/4" zinc plated (5 used). Bolt, stove, oven head, 5/16 x 3/4" zinc plated with lock washer. Bolt, stove, oven head, 5/16 x 7/8" zinc plated with lock washer. Upper cylinder shield, left.	5-1/2
1080 S	Bolt, carriage, 5/16 x 1-1/4" zinc plated (5 used).	16
1081 S	Bolt, stove, oven head, 5/16 x 3/4" zinc plated with lock washer.	16
1136 S	Bolt, stove, oven head, 5/16 x 7/8" zinc plated with lock washer. Front main side angle, right, 1-3/4 x 1-1/4 x 3/16" angle, 106-13/16" long.	1-1/2
1137 S	Front main side angle, left, 1-3/4 x 1-1/4 x 3/16" angle, 106-13/16" long. Rear end angle on side, right, 1-3/8 x 1 x 5/32" angle, 14-5/8" long.	1-1/2
1143 S	Bolt, carriage, 5/16 x 1-1/4" Bolt, carriage, 5/16 x 1-1/2"	
1144 S	Bolt, carriage, 3/8 x 1-1/2" (2 used). Rear end angle on side, left, 1-3/8 x 1 x 5/32" angle, 14-5/8" long.	1-1/2
1148 SA1	Bolt, carriage, 5/16 x 1-1/4" Bolt, carriage, 5/16 x 1-1/2" Bolt, carriage, 3/8 x 1-1/2" Bolt, carriage, 3/8 x 1-3/4" Pivot axle guide complete, right.	4-1/2
1172 S	Pivot axle guide complete, left.	11
1314 S	Rear axle bearing plates, 1/4 x 5" flat, 11-5/8" long.	4-1/4
1315 S	Reinforcement plate at rear end of sides, 1-1/16 x 4" long, 14 gauge.	1/4
1317 S	Bolt, carriage, 3/8 x 1-1/2" (2 used). Side brace complete, right.	4-1/2
	Bolt, machine, 3/8 x 7/8" with lock washer (2 used). Bolt, machine, 1/2 x 1" with lock washer.	
	Rear axle bearing straps, 5/16 x 1-1/4" flat, 16-1/4" long.	1-3/4
	Bolt, machine, 3/8 x 1" with lock washer (3 used).	
	Rear main side angle, right, 1-3/4 x 1-1/4 x 3/16" angle, 44-15/16" long.	6-3/4
	Rivet, oval head, 3/4 x 7/8" (2 used). Bolt, machine, 3/8 x 1-1/2" with hexagon nuts.	
	Rear main side angle, left, 1-3/4 x 1-1/4 x 3/16" angle, 44-15/16" long.	6-3/4
	Rivet, oval head, 3/4 x 7/8" (2 used).	
	Filler shield for left side angle.	1
	Bolt, machine, 5/16 x 3/4" with lock washer (2 used). Bolt, machine, 3/8 x 1" with lock washer.	

**SIDES AND ARCH (Con't)**

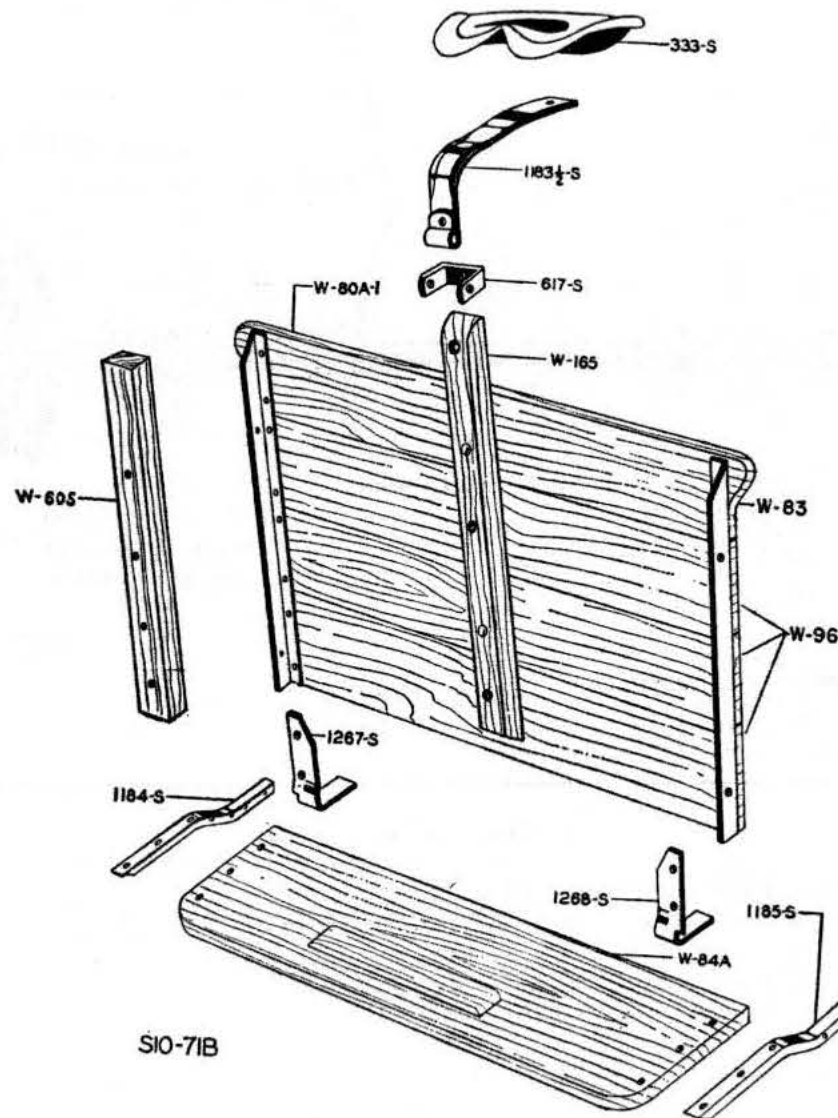
Part No.	Description	Wt. Lbs.
1474 S	Arch, 1-3/8 x 1 x 3/16" angle, 125-3/4" long.....	14-3/4
	Bolt, carriage, 5/16 x 1-1/4" zinc plated (10 used).....	
	Bolt, carriage, 5/16 x 1-1/2" zinc plated (2 used).....	
	Bolt, machine, 3/8 x 7/8" with lock washer (2 used).....	
1577 S	Lubrication bracket, 3/16 x 1-1/4" flat, 3-3/8" long.....	1/4
	Bolt, machine, 3/8 x 7/8" with lock washer.....	
1623 S	Oil line support clip, .060 x 1-1/4" flat, 1-55/64" long (2 used).....	2 oz.
W 74A	Flare board with angle top rail, right 4-7/16 x 104" long.....	14
	Bolt, carriage, 1/4 x 1-1/4" zinc plated (2 used).....	
	Bolt, carriage, 5/16 x 1-1/4" zinc plated (8 used).....	
W 75A	Flare board with angle top rail, left, 4-7/16 x 104" long.....	14
	Bolt, carriage, 1/4 x 1-1/4" (2 used).....	
	Bolt, carriage, 5/16 x 1-1/4" (8 used).....	
W 100	Left lower side board.....	14
	Rivet, truss head, 5/16 x 1-3/16".....	
W 100A	Side complete, left.....	97
W 101	Right and left center side board.....	10
	Rivet, truss head, 5/16 x 1-3/16".....	
W 102	Left top side board.....	12
	Rivet, truss head, 5/16 x 1-3/16".....	
W 103	Filler piece for rear end of side, left.....	1/2
W 104	Right lower side board.....	15
	Rivet, truss head, 5/16 x 1-3/16".....	
W 104A	Side complete, right.....	91
W 106	Right top side board.....	11
	Rivet, truss head, 5/16 x 1-3/16".....	
W 107	Filler piece for rear end of side, right.....	1/2

**BOTTOM**



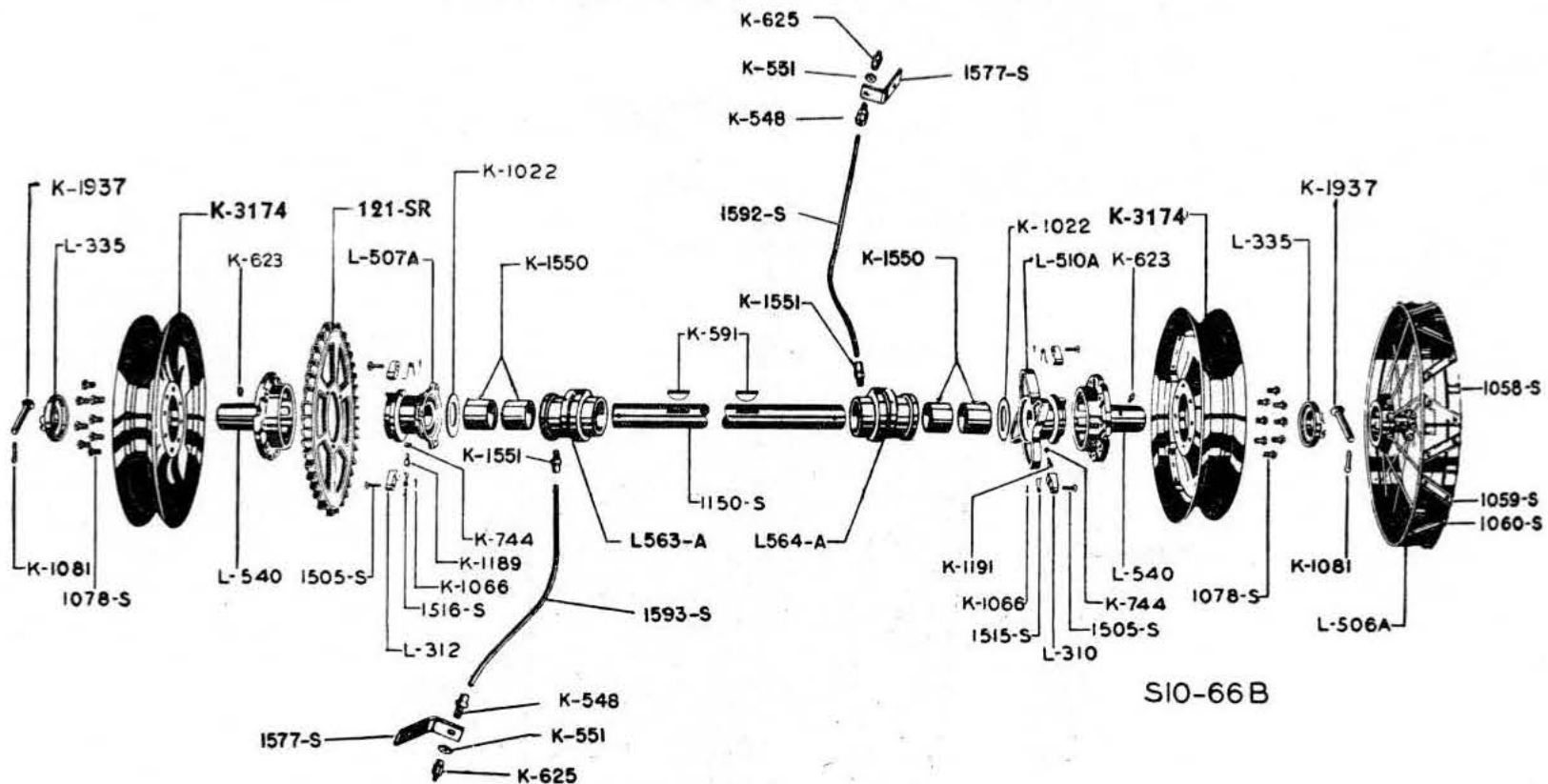
Part No.	Description	Wt. Lbs.
01436 SRA	Second from front cross angle with end brackets, 1-3/4 x 1-1/4 x 3/16" angle, 36-13/16" long	5-3/4
01437 SRA	Third from front cross angle with end brackets, 1-3/4 x 1-1/4 x 3/16" angle, 37-3/16" long...	5-3/4
01439 SRA	Rear cross angle with end brackets, 1-3/4 x 1-1/4 x 3/16" angle, 38-13/16" long.....	6
01440 SRA	Front cross angle with end brackets, 1-3/4 x 1-1/4 x 3/16" angle, 36-1/2" long.....	5-3/4
01441 SRA	Fourth from front cross angle with end brackets, 1-3/4 x 1-1/4 x 3/16" angle, 37-9/16" long..	5-3/4
W 115 SRA	Bottom complete.....	100
W 116 SR	Outside bottom board, right.....	11
	Rivet, truss head, 1/4 x 1-3/16", (9 used)	
	Rivet, truss head, 5/16 x 1-3/8", (3 used).....	
W 117 SR	Outside bottom board, left.....	11
	Rivet, truss head, 1/4 x 1-3/16" (9 used)	
	Rivet, truss head, 5/16 x 1-3/8", (3 used).....	
W 118 SR	Center board, (5 used).....	12
	Rivet, truss head, 1/4 x 1-3/16", (7 used).....	
W 171	Center feed shaft bearing, 1-7/8 x 2-7/8 x 3-3/8" long.....	1
	Bolt, carriage, 5/16 x 3".....	

ENDGATE AND FOOTBOARD



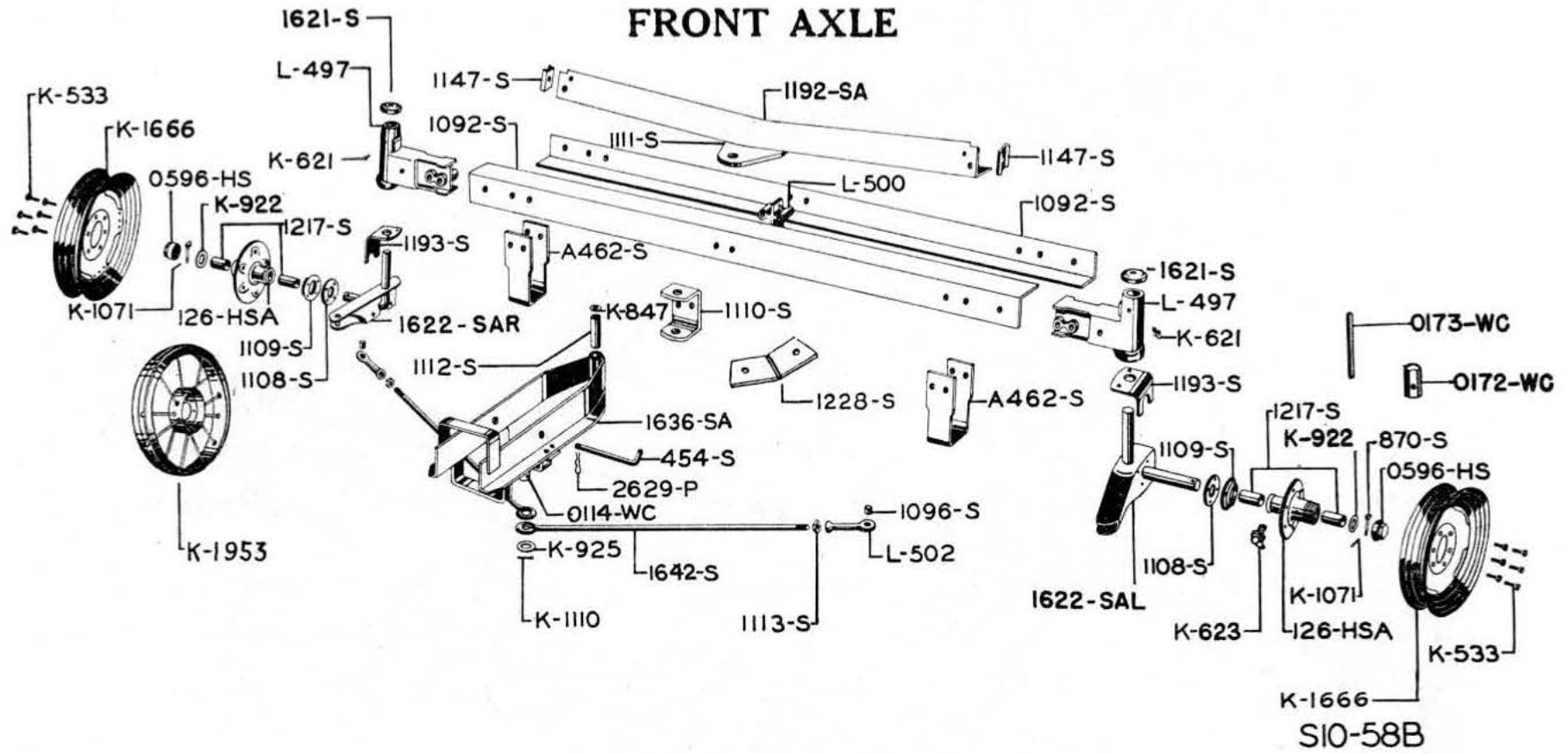
Part No.	Description	Wt. Lbs.
333 S	Seat.....	4-1/2
617 S	Bolt, carriage, 3/8 x 1" with lock washer.....	1-1/4
1183 SA	Seat post straddler, 5/16 x 1-1/2" flat, 9-1/4" long.....	6-3/4
1184 S	Bolt, carriage, 3/8 x 2".....	3-1/2
1185 S	Seat iron complete, 3/8 x 3" flat, 19-1/2" long.....	3-1/2
1267 S	Bolt, machine, 1/2 x 4-1/4".....	1-1/2
1268 S	Footboard support, right, 1-3/4 x 1-1/4 x 3/16" angle, 23-1/4" long.....	1-1/2
W 80A1	Bolt, carriage, 5/16 x 1-1/4" (3 used).....	19
W 83	Footboard support, left, 1-3/4 x 1-1/4 x 3/16" angle, 23-1/4" long.....	7
W 84A	Bolt, carriage, 5/16 x 1-1/4" (3 used).....	3
W 96	Conveyor chain slide, right, 3/16 x 2-3/4" flat, 11-1/16" long.....	1
W 165	Conveyor chain slide, left, 3/16 x 2-3/4" flat, 11-1/16" long.....	
W 605	Bolt, carriage, 5/16 x 1-1/2" (2 used).....	
	Bolt, carriage, 5/16 x 1-1/2" (2 used).....	
	Bolt, carriage, 5/16 x 1-1/2" (2 used).....	
	Endgate complete.....	
	Bolt, machine, 3/8 x 1-1/2" (4 used).....	
	Endgate, top board.....	
	Rivet, wagon box head, 5/16 x 1-1/8", (4 used).....	
	Foot board.....	
	Lower three endgate boards.....	
	Rivet, wagon box head, 5/16 x 1-3/16".....	
	Seat post, 1-1/2 x 3 x 24-1/4" long.....	
	Bolt, carriage, 3/8 x 2-3/4" (2 used).....	
	Endgate post used when tractor drawn, 25/32 x 3" flat, 17-3/4" long.....	
	Bolt, carriage, 3/8 x 2-3/4" (4 used).....	

REAR AXLE



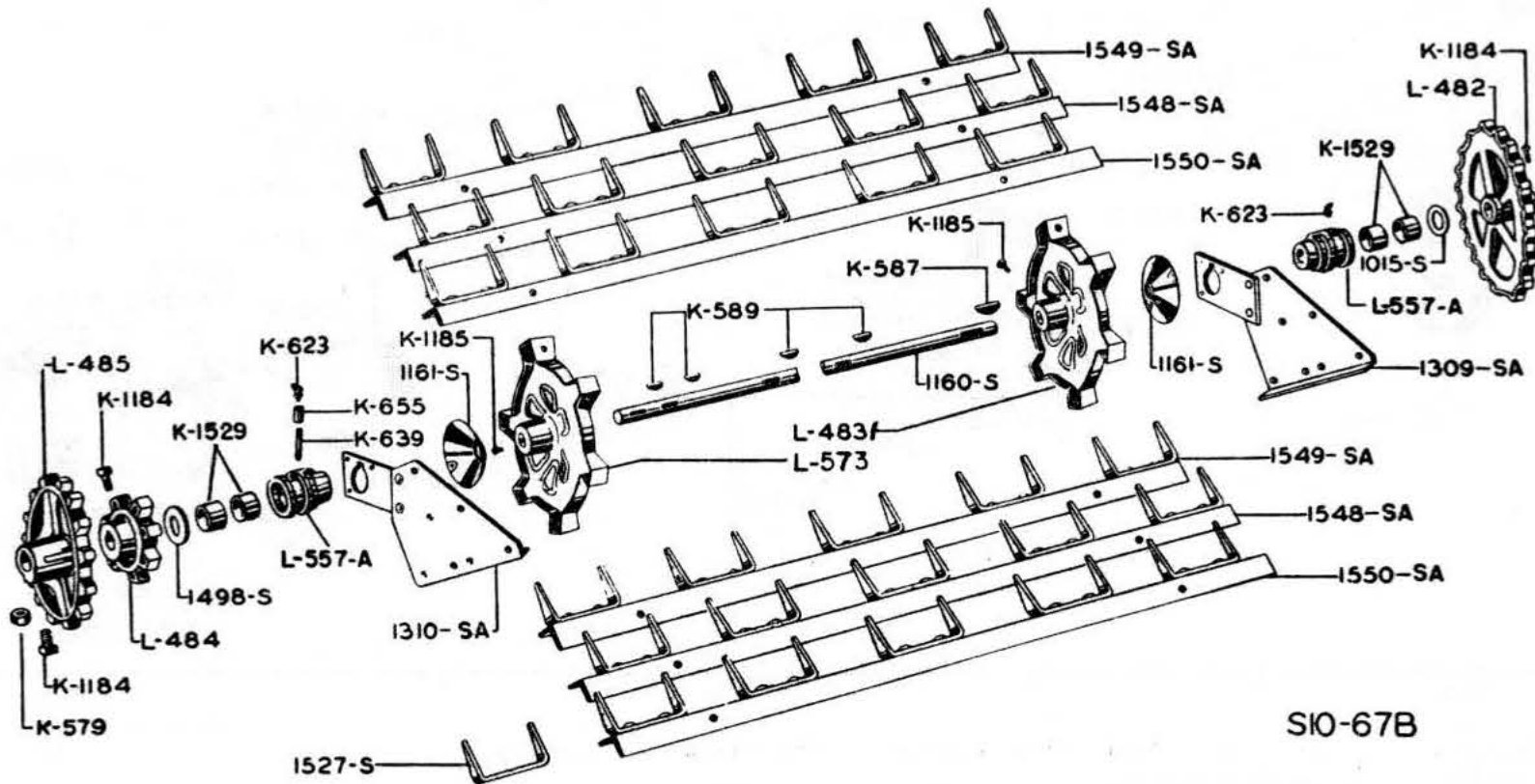
Part No.	Description	Wt. Lbs.
K 548	Oil line fitting (No. 701A), complete with gland and nut.....	2 oz.
K 551	Hexagon nut for oil line fitting (No. 111B), 9/16" O. D., 1/8" I. D.....	1 oz.
K 591	No. 29 Woodruff key, 3/8" thick, 1-3/4" long.....	1 oz.
K 623	Grease fitting, 1/8" pipe thread, 67-1/2 degree elbow.....	1 oz.
K 625	Grease fitting, 1/8" female pipe thread, straight.....	1 oz.
K 744	Lock nut, 1/2".....	1 oz.
K 1022	Washer, 4" O. D., 2-1/16" I. D., 12 gauge (2 used).....	1/4
K 1066	Spring cotter, 3/32 x 1/2" long.....	1 oz.
K 1081	Spring cotter, 3/32 x 1/2" long.....	1 oz.
K 1189	Set screw, 1/2 x 1-1/4" long.....	1 oz.
K 1191	Set screw, 1/2 x 1-1/2" long.....	1 oz.
K 1550	Bronze steel backed bushing, 1-3/4" I. D., 2" long.....	1/4
K 1551	Oil line connector fitting with gland and nut.....	1 oz.
K 1937	Axle pin, 1/2 x 3 long, oval head.....	1/4
K 3174	Disc wheel, 24".....	44
L 310	Pawl for feed cam.....	1/2
L 312	Pawl for sprocket hub.....	1/2
L 335	Axle coll.....	1
L 506 A	Steel wheel, 1-3/4" bore.....	115
L 507 A	Sprocket wheel hub, with pawls and springs, 1-3/4" bore. Uses K 591 key.....	15-1/2
L 510 A	Feed cam with pawls and springs, 1-3/4" bore. Uses K 591 key.....	19-1/2
L 540	Wheel hub, 1-3/4" bore.....	23
L 563 A	Axle bearing housing assembly with 2 K 1550 bushings, left.....	8
L 564 A	Axle bearing housing assembly with 2 K 1550 bushings, right.....	8
1058 S	Short cleat for steel wheel, 1-15/32 x 5/32" channel, 2" long. Rivet, oval head, 5/16 x 3/4" (2 used).....	1/4
1059 S	Long cleat for steel wheel, right, 1-15/32 x 15/32 x 5/32" channel, 7-1/2" long. Rivet, oval head, 3/8 x 7/8" (2 used).....	3/4
1060 S	Long cleat for steel wheel, left, 1-15/32 x 15/32 x 5/32" channel, 7-1/2" long. Rivet, oval head, 3/8 x 7/8" (2 used).....	3/4
1078 S	Hub bolt, 9/16" Dia., 1-1/2" long.....	2 oz.
1150 S	Axle, 1-3/4" Rd., 69" long. Uses K 591 key.....	47
1150 SA	Axle complete with 1 L 507A, 1 L 510 A, 1 L 563A and 1 L 564A.....	88-1/2
1505 S	Pin for pawls, 1/4" Dia., 1-7/8" long, W. B. head.....	1 oz.
1515 S	Spring Torsion for feed cam.....	1 oz.
1516 S	Spring Torsion for sprocket wheel hub.....	1 oz.
1577 S	Lubrication bracket, 3/16 x 1-1/4" flat, 3-3/8" long..... Bolt, machine, 3/8 x 7/8" with lock washer.....	1/4
1592 S	Axle bearing oil line, 3/16" O. D., 12-3/16" long, right.....	1/4
1592 SA	Axle bearing oil line assembly, right, with K 548, K 551, K 1551 and K 619.....	1/2
1593 S	Axle bearing oil line, 3/16" O. D., 13-3/8" long.....	1/4
1593 SA	Axle bearing oil line assembly, left, with K 548, K 551, K 1551 and K 619.....	1/2
121-SR	36 tooth sprocket wheel..... Bolt, machine, 1/2 x 1-3/4" with lock washer (3 used).....	28
L 516	Wheel spacer for rubber-tired wheel (2 used).....	13
1336 S	Lug bolt 9/16" x 1-3-4" long for L 516 spacer (8 used).....	1/4

NEW IDEA NO. 10A SPREADER



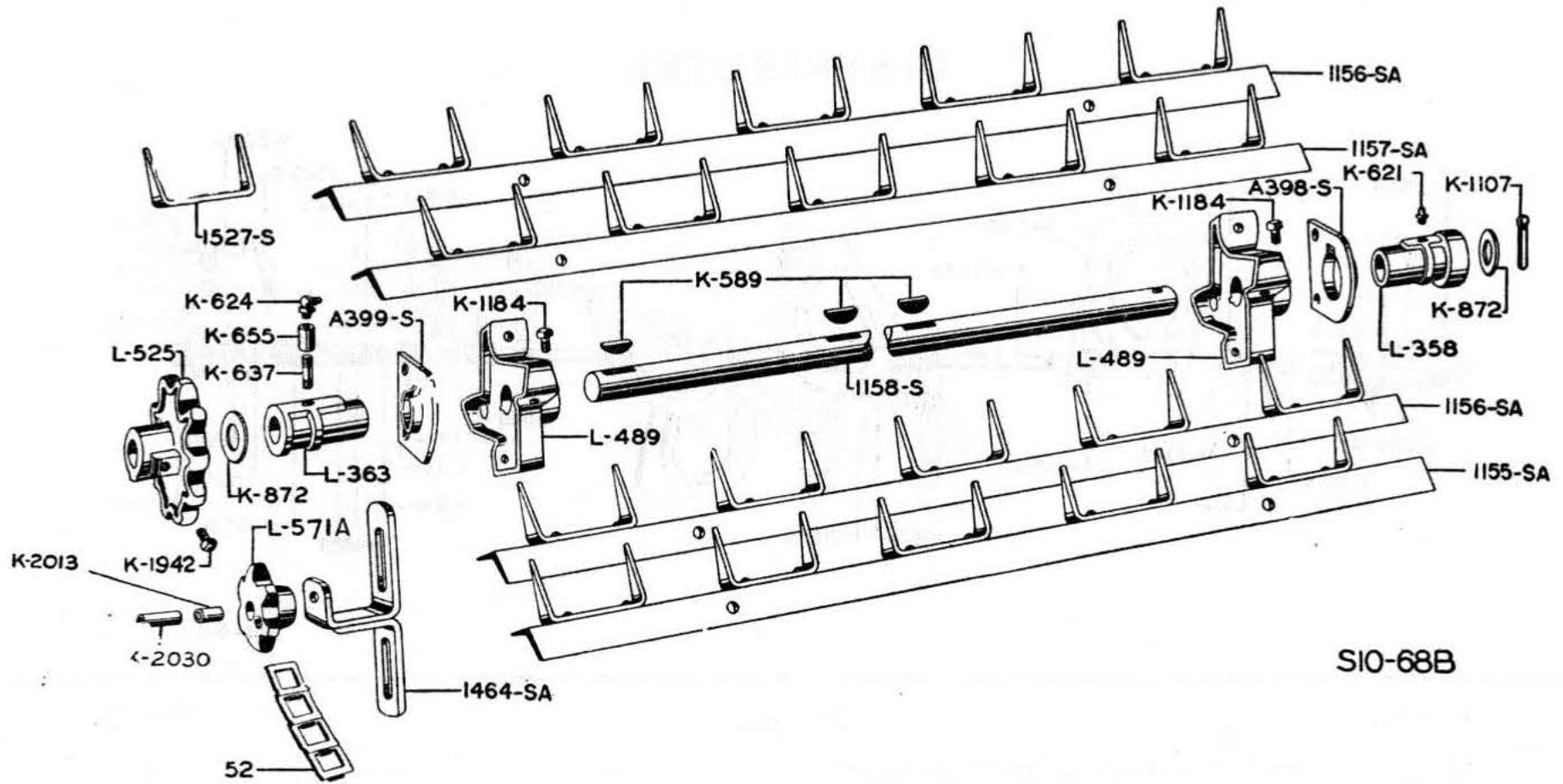
Part No.	Description	Wt. Lbs.
126 HSA	Hub for disc wheel with renewable bronze bushings and hub cap.....	12
0596 HS	Screw type hub cap.....	1/2
K 533	Cap screw, 9/16 x 1-13/32" long.....	1 oz.
K 621	Grease fitting, 1/8" pipe thread, straight.....	1 oz.
K 623	Grease fitting, 1/8" pipe thread, 67-1/2 degree elbow.....	1 oz.
K 847	Washer, 1-1/2" O. D., 21/32" I. D., 13 gauge.....	1 oz.
K 922	Washer, 2-3/16" O. D., 1-13/16" I. D., 16 gauge.....	1 oz.
K 925	Washer, 2-1/4" O. D., 1-3/16" I. D., 5/32" thick.....	2 oz.
K 1071	Spring cotter, 1/8 x 3/4" long.....	1 oz.
K 1110	Spring cotter, 5/16 x 2-1/4" long.....	1 oz.
K 1666	Disc wheel, 15".....	17-1/2
K 1953	Steel front wheel (2 used).....	65
L 497	Axle casting.....	6-3/4
	Rivet, oval head, 1/2 x 2-3/4".....	
L 500	Filler block.....	1-1/4
L 502	Steering rod head.....	1
2629 P	Spring clip.....	2 oz.
454 S	Pole pin, 5/8" Rd., 7-5/16" long.....	1/2
A462 S	Wearing plate, 3/16 x 3" flat, 13-5/8" long.....	2-1/4
	Rivet, oval head, 1/2 x 3" long.....	
	Rivet, countersunk head, 3/8 x 2-3/4" long (2 used).....	
870 S	Axle pin, 3/8" Dia., 1-3/4" long.....	2 oz.
1092 S	Axle angle, 3 x 2 x 3/16" angle, 49-9/16" long.....	12-1/2
1092 SA	Axle complete with 2 L 497, 1 L 500, 2 A462 S, 2 1092 S and 1 1110 S.....	48
1096 S	Bushing, 27/32" (.840") O. D., 47/64" long.....	1 oz.
1108 S	Washer, 4-1/4" O. D., 1-3/8" I. D., 3/16" thick.....	1/4
1109 S	Wheel seal, 4-1/4" Dia.....	1/4
	Rivet, oval head, 1/4 x 3/4" (2 used).....	
1110 S	Pole connection hinge, 5/16 x 3-1/4" flat, 9" long.....	2-1/2
	Rivet, oval head, 1/2 x 3" (3 used).....	
1111 S	Bolster plate, 1/4 x 6" flat, 5-1/2" long.....	2-1/2
1112 S	Bushing, 7/8" O. D., 4-1/8" long.....	2 oz.
1113 S	Nut for steering rod, 3/4" hexagon.....	2 oz.
1147 S	Bolster end block, 1-15/32 x 15/32 x 5/32" channel, 2-1/4" long.....	1/2
	Bolt, machine, 3/8 x 7/8" with lock washer (2 used).....	
1192 SA	Bolster complete with plate, 3 x 2 x 7/32" angle, 37-5/8".....	13-3/4
	Bolt, machine, 3/8 x 7/8" with lock washer (2 used).....	
	Bolt, machine, 1/2 x 1" with lock washer (2 used).....	
1193 S	Wheel shield.....	3/4
	Bolt, machine, 5/16 x 3/4" with lock washer (2 used).....	
1217 S	Bronze bushing, 1-9/16" (1.566") O. D., 2-1/2" long.....	3/4
1228 S	Pole stop.....	3/4
	Bolt, machine, 3/8 x 1" with lock washer.....	
1621 S	Pivot axle cap.....	1/4
	Bolt, machine, 3/8 x 3/4" with lock washer (2 used).....	
1622 SAR	Pivot axle complete, right.....	12
1622 SAL	Pivot axle complete, left.....	12
1636 SA	Pole connection complete.....	12-1/4
	Bolt, machine, 5/8 x 5-1/2" with lock washer.....	
1642 S	Steering rod, 3/4" Rd., 29" long.....	3-1/2
0114 WC	Stud for steering rod, 1-1/8" dia., 2-3/4" long.....	1/4

MAIN CYLINDER



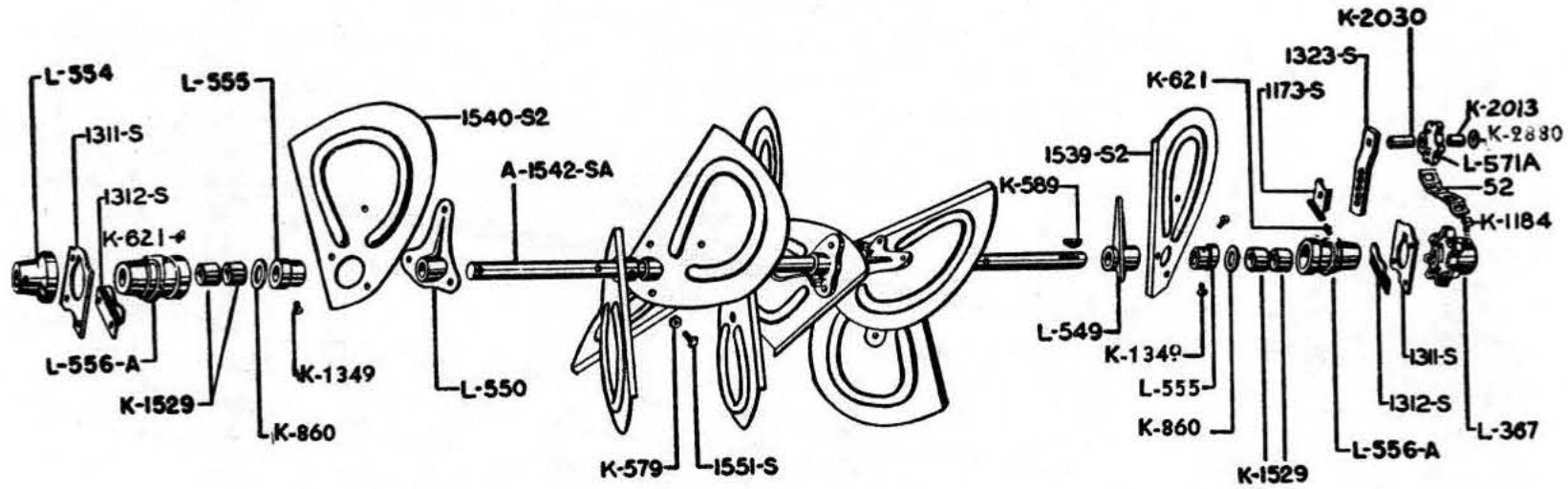
Part No.	Description	Wt. Lbs.
K 579	Jam nut, 1/2" hexagon.....	1 oz.
K 587	No. 26 Woodruff key, 3/16" thick, 1-3/4" long.....	1 oz.
K 589	No. 13 Woodruff key, 3/16" thick, 1" long.....	1 oz.
K 623	Grease fitting, 1/8" pipe thread, 67-1/2 degree elbow.....	1 oz.
K 639	Pipe nipple, 1/8" I. D., 2" long.....	1 oz.
K 655	Pipe coupling, 1/8".....	1 oz.
K 1184	Set screw, 1/2 x 1" long.....	1 oz.
K 1185	Set screw, 1/2 x 1" long.....	1 oz.
K 1529	Bronze steel backed bushing, 1-1/16" I. D., 1-1/4" long.....	3 oz.
L 482	20 tooth sprocket to drive distributor, 1-1/16" bore. Uses K 587 key.....	7-3/4
L 483-1	Main Cylinder head, 1-1/16" bore right. Uses K 589 key.....	11-1/4
L 484	7 tooth drive sprocket, 1-1/16" bore. Uses K 589 key.....	3-1/4
L 485	15 tooth sprocket to drive upper cylinder, 1-1/16" bore. Uses K 589 key.....	5
L 557A	Cylinder bearing assembly with 2 K 1529 bushings.....	1-1/2
L 573	Main Cylinder head, left.....	11-1/4
1015 S	Bearing closure washer, 2" O. D., 1-3/32" I. D., 18 gauge.....	1 oz.
1160 S	Shaft, 1-1/16" Rd., 49-3/4" Long. Uses K 587 and K 589 keys.....	12-1/2
A1160 S	Shaft complete with 1 L 482, 2 L 483, 1 L 484, 1 L 485, 2 L 557A, 2 1161 S, 1 1309 SA and 1 1310 SA.....	65
1161 S	Anti-wrap shields, 6" Dia.....	3/4
1309 SA	Bearing plate complete, right.....	7-1/2
1310 SA	Bearing plate complete, left.....	7-1/2
1498 S	Bearing closure (spacer) washer, 2" O. D., 1-3/32" I. D., 1/8" thick.....	2 oz.
1527 S	Cylinder bar tooth with rivets.....	1/2
1548 SA	Cylinder bar with teeth, 1-3/8 x 1-3/8 x 5/32" angle, 36-3/8" long.....	6-3/4
1549 SA	Cylinder bar with teeth, 1-3/8 x 1-3/8 x 5/32" angle, 36-3/8" long.....	6-3/4
1550 SA	Cylinder bar with teeth, 1-3/8 x 1-3/8 x 5/32" angle, 36-3/8" long.....	6-3/4

UPPER CYLINDER



Part No.	Description	Wt. Lbs.
52	Steel chain link (complete chain, 41 links).....	2 oz.
K 589	No. 13 Woodruff key, 3/16" thick, 1" long.....	1 oz.
K 621	Grease fitting, 1/8" pipe thread, straight.....	1 oz.
K 624	Grease fitting, 1/8" pipe thread, 90 degree elbow.....	1 oz.
K 637	Pipe nipple, 1/8" I. D., 1-1/4" long.....	1 oz.
K 655	Pipe coupling, 1/8".....	1 oz.
K 872	Washer, 1-3/4" O. D., 1-1/32" I. D., 16 gauge.....	1 oz.
K 1107	Spring cotter, 5/16 x 1-1/4" long.....	1 oz.
K 1184	Set screw, 1/2 x 3/4" long.....	1 oz.
K 1942	Set screw, 1/2 x 7/8" long, low head.....	1 oz.
K 2013	Fiber bushing, 23/32" O. D., 19/32" I. D., 1-7/16" long.....	1 oz.
K 2030	Bushing, seamless steel, 9/16" O. D., 1-9/16" long.....	2 oz.
K 2880	Washer, 1" O. D., 7/16" I. D., galv. 16 gauge, not illustrated on idler sprocket bolt.....	1 oz.
L 358	Bearing, right, 1" bore.....	1-1/4
L 363	Bearing, left, 1" bore.....	1-1/4
L 489	Cylinder head, 1" bore. Uses K 589 key.....	3-1/2
L 525	10 tooth sprocket, 1" bore. Uses K 589 key.....	5
L 571A	6 tooth tightener sprocket.....	1
	Bolt, machine, 3/8 x 2-1/4" with lock washer.....	
AL 571A	6 tooth tightener sprocket with bolt and bushing.....	1-1/4
A398 S	Bearing plate, right, 3/16 x 3-29/32" flat, 4" long.....	1
	Bolt, carriage, 3/8 x 7/8" with lock washer (2 used).....	
A399 S	Bearing plate, left, 3/16 x 3-29/32" flat, 4" long.....	1
	Bolt, carriage, 3/8 x 7/8" with lock washer (2 used).....	7
1155 SA	Cylinder bar with teeth, 1-1/4 x 1-1/4 x 5/32" angle, 42" long.....	7
	Bolt, carriage, 3/8 x 1" with lock washer (2 used).....	
1156 SA	Cylinder bar with teeth, 1-1/4 x 1-1/4 x 5/32" angle, 42" long.....	7
	Bolt, carriage, 3/8 x 1" with lock washer (2 used).....	
1157 SA	Cylinder bar with teeth, 1-1/4 x 1-1/4 x 5/32" angle, 42" long.....	7
	Bolt, carriage, 3/8 x 1" with lock washer (2 used).....	
1158 S	Shaft, 1" Rd., 49-7/8" long.....	11-1/4
A1158 S	Shaft complete with 1 L358, 1 L 363, 2 L 489, 1 L 525, 1 A398 S and 1 A399 S.....	23-1/2
1464 SA	Chain tightener bracket.....	3-1/4
AA1464 SA1	Chain tightener complete with sprocket, bolt and bushing.....	4-1/2
1527 S	Cylinder bar tooth with rivets.....	1/2
	Rivet, oval head, 5/16 x 3/4" (2 used).....	

DISTRIBUTER

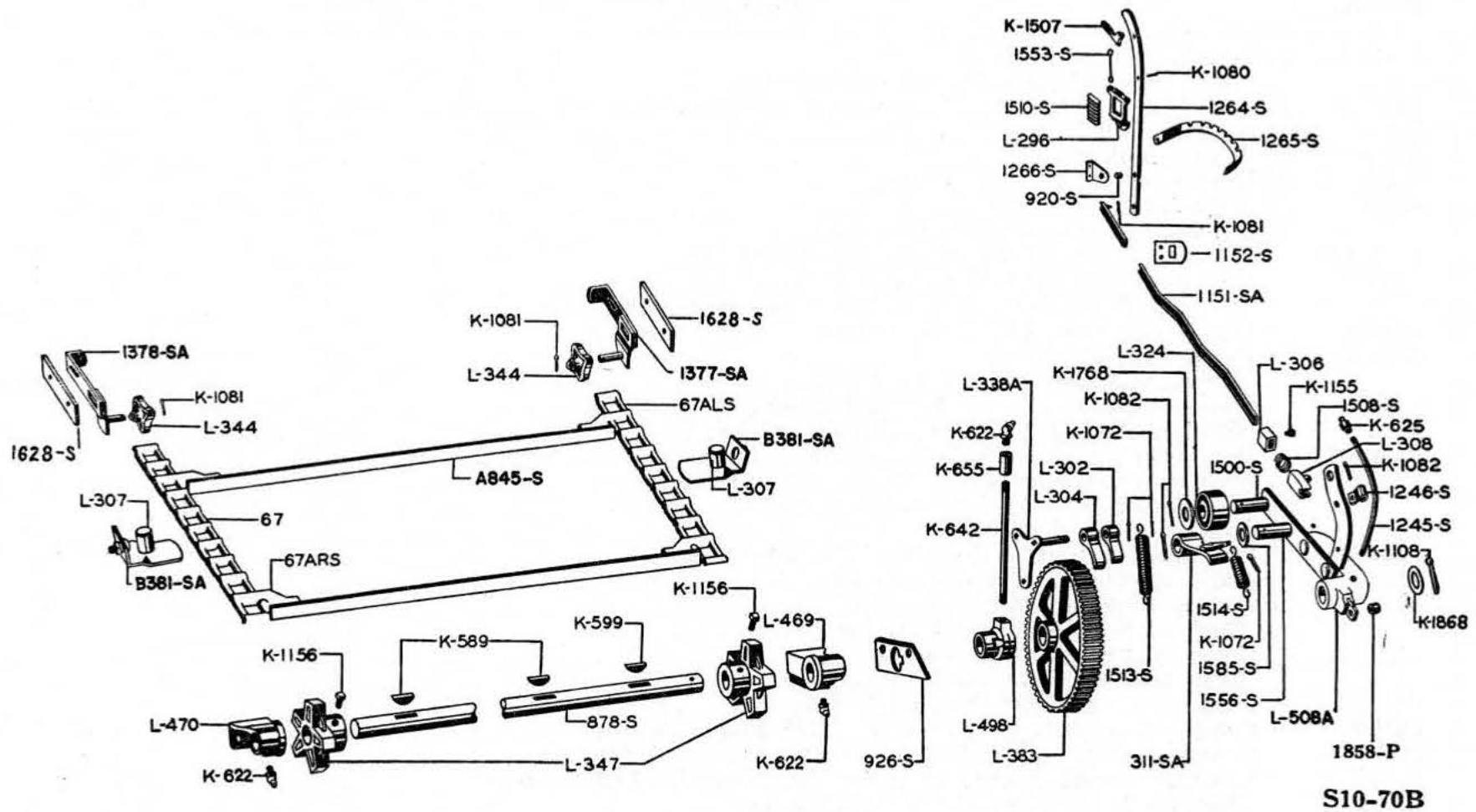


S14-44B

Part No.	Description	Wt. Lbs.
52	Steel chain link (complete chain 44 links)	2 oz.
K 579	Hexagon jam nut, 1/2"	1 oz.
K 589	No. 13 Woodruff key, 3/16" thick, 1" long	1 oz.
K 621	Grease fitting, 1/8" pipe thread, straight	1 oz.
K 860	Washer, 1-9/16" O. D., 1-3/32" I. D., 1/16" thick	1 oz.
K 1184	Set screw, 1/2 x 3/4" long	1 oz.
K 1349	Set screw, low head, 5/16 x 3/8"	1 oz.
K 1529	Bronze steel backed bushing, 1-1/16" I. D., 1-1/4" long	3 oz.
K 2013	Fiber bushing, 23/32" O. D., 19/32" I. D., 1-7/16" long	1 oz.
K 2030	Bushing, seamless steel, 9/16" O. D., 1-9/16" long	2 oz.
K 2880	Washer, 1" O. D., 7/16" I. D., 16 gauge galv.	1 oz.
L 367	7 tooth sprocket, 1-1/16" bore. Uses K 589 key	2-1/4
L 549	Paddle casting, right	2-1/4
L 550	Paddle casting, left	2-1/4
L 554	End collar	1/2
	Rivet, button head, 5/16 x 1-3/4"	
L 555	Spacer collar	1/2
L 556A	Distributor bearing assembly with 2 K 1529 bushings	2-3/4
L 571A	6 tooth tightener sprocket	1
	Bolt, machine, 3/8 x 2-1/2" with lock washer	
AL 571A	6 tooth tightener sprocket with bolt and bushing	1-1/4
1173 S	Lock for chain tightener arm	2 oz.
	Bolt, machine, 3/8 x 1-1/4" with lock washer	
1311 S	Bearing plate, 3/16 x 4" flat, 3-1/2" long	3/4
	Bolt, machine, 5/16 x 3/4" with lock washer	
	Bolt, machine, 3/8 x 1" with lock washer (2 used)	
1312 S	Keeper for bearing, 1/8 x 1-3/4" flat, 4" long	1/4
1323 S	Chain tightener arm, 5/16 x 1-1/4" flat, 6" long	3/4
	Bolt, machine, 3/8 x 1-1/4" with lock washer	
AA1323 S	Chain tightener complete with sprocket, bolt and bushing	2-1/4
1539 S2	Paddle, right	3-1/2
	Rivet, truss head, 5/16 x 3/4" (3 used)	
1539 SA2	Distributor paddle and casting assembly, right	6
1540 S2	Paddle, left	3-1/2
	Rivet, truss head, 5/16 x 3/4" (3 used)	
1540 SA2	Distributor paddle and casting assembly, left	6
A1542 SA	Shaft with sprocket, 1-1/16" Rd., 46-11/32" long. Uses K589 key	14
AA1542 SA2	Distributor complete	70
1551 S	Set screw, 1/2" Dia., 1-5/16" long, cone point	1 oz.



**FEED SHAFT, CONVEYOR AND FEED LEVER**



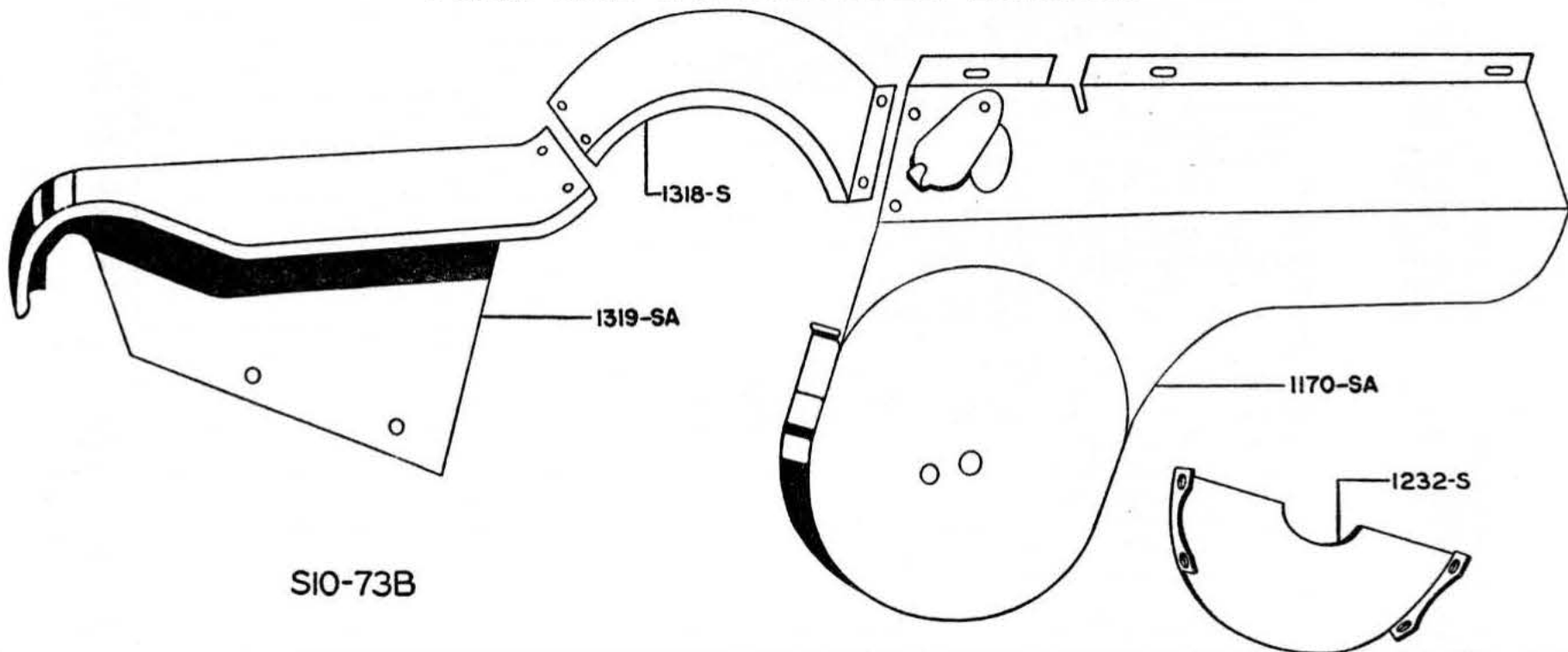
Part No.	Description	Wt. Lbs.
67	Plain steel chain link.....	2 oz.
67 ARS	Steel attachment link, left.....	3 oz.
	Rivet, flat head, 5/16 x 5/8"	
67 ALS	Steel attachment link, right.....	3 oz.
	Rivet, flat head, 5/16 x 5/8"	
K 589	No. 13 Woodruff key, 3/16" thick, 1" long.....	1 oz.
K 599	No. 14 Woodruff key, 7/32" thick, 1" long.....	1 oz.
K 622	Grease fitting, 1/8" pipe thread, 30 degree elbow.....	1 oz.
K 625	Grease fitting, 1/8" female pipe thread, straight.....	1 oz.
K 642	Pipe nipple, 1/8" I. D., 7" long.....	2 oz.
K 655	Pipe coupling, 1/8".....	1 oz.
K 1072	Spring cotter, 1/8 x 1" long.....	1 oz.
K 1080	Spring cotter, 3/16 x 3/4" long.....	1 oz.
K 1081	Spring cotter, 3/16 x 1" long.....	1 oz.
K 1082	Spring cotter, 3/16 x 1-1/4" long.....	1 oz.
K 1108	Spring cotter, 5/16 x 1-1/2" long.....	1 oz.
K 1155	Set screw, 3/8 x 5/8" long.....	1 oz.
K 1156	Set screw, 3/8 x 5/8" long, low head.....	1 oz.
K 1507	Lever latch.....	1/4
	Rivet, flat head, 1/4 x 3/4"	
K 1768	Washer, 1-1/2" O. D., 29/32" I. D., 1/16" thick.....	1 oz.
K 1868	Washer, 1-3/4" O. D., 1-3/32" I. D., 5/64" thick.....	1 oz.
L 296	Lever slide casting.....	1/2
L 302	Retention pawl, short.....	1/2
L 304	Retention pawl, long.....	1/2
L 306	Single set collar.....	1/4
L 307	Conveyor guide.....	1/4
	Rivet, wagon box head, 5/16 x 1-1/4"	
L 308	Slide collar.....	1/2
L 321	Roller for feed arm.....	1-1/2
L 338A	Retention pawl support with pin.....	1-1/2
	Bolt, carriage, 3/8 x 1-1/2" (3 used).....	
L 344	4 tooth idler sprocket.....	1
L 347	5 tooth feed sprocket, 1-1/16" bore. Uses K 589 key.....	2
L 383	Ratchet wheel, 1-1/16" bore. Uses K 99 key.....	12-1/4
L 469	Feed bearing, right, 1-1/16" bore.....	2
	Bolt, machine, 3/8 x 1-1/4" with lock washer (2 used).....	
L 470	Feed bearing, left, 1-1/16" bore.....	2
L 498	Angle feed bearing, 1-1/16" bore.....	3/4
L 508A	Feed arm complete with roller, pawl and spring.....	8-1/2
1858 P	Bushing, 1/4 I. D., 5/16" long.....	1 oz.
311 SA	Feed pawl, 1/4 x 1-1/4" flat, 5-3/4" long.....	3/4

INSTRUCTIONS FOR SETTING UP AND OPERATING

**FEED SHAFT, CONVEYOR AND FEED LEVER (Con't)**

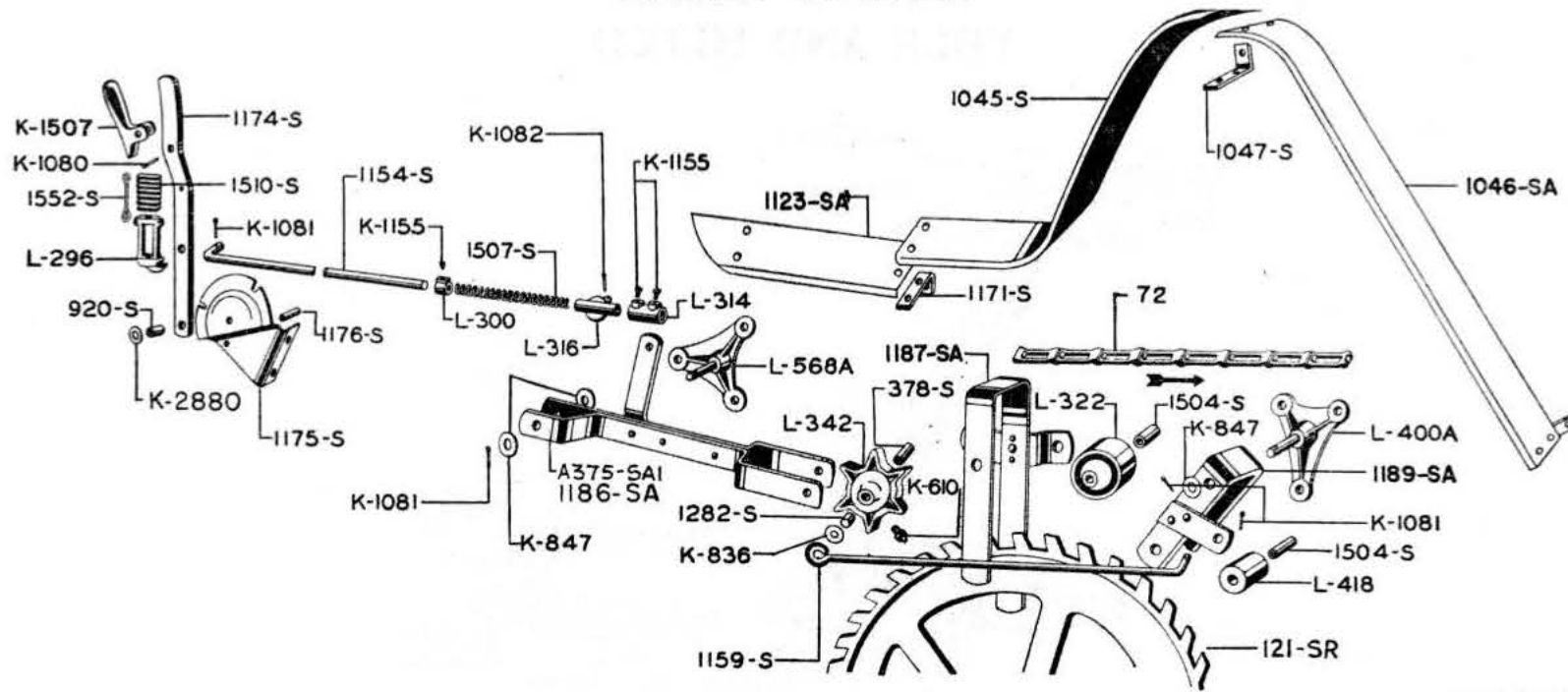
Part No.	Description	Wt. Lbs.
B381 SA	Conveyor slide complete.....	1-1/4
	Bolt, carriage, 3/8 x 7/8" with lock washer.....	
A845 S	Conveyor bar with links, 1-3/8 x 1 x 5/32" angle, 34-1/4" long, overall.....	3-1/4
878 S	Shaft, 1-1/16" Rd., 44-5/8" long.....	11-1/4
878 SA	Shaft complete with 2 L 347.....	15
920 S	Bushing, 9/16" O. D., 3/8" long.....	1 oz.
926 S	Angle feed bearing plate.....	3/4
	Rivet, oval head, 3/8 x 3/4" (2 used).....	
1151 SA	Feed rod, 3/4 x 3/8 x 1/8" channel, 117-3/4" long.....	5-1/2
1152 S	Feed rod guide, 1/8 x 3" flat, 2-3/16" long.....	1/4
	Bolt, machine, 5/16 x 3/4" with lock washer (2 used).....	
1245 S	Pipe nipple, bent, 1/8" I. D., 8" long.....	1/4
1246 S	Bracket for pipe nipple.....	2 oz.
	Rivet, wagon box head, 1/4 x 3/4".....	
1264 S	Feed lever, 5/16 x 1-1/4" flat, 26-3/4" long.....	3-1/2
	Bolt, machine, 3/8 x 1-1/4" with lock washer.....	
1264 SA	Feed lever complete with latch, slide and spring.....	4
1265 S	Feed lever sector, 5/16 x 1-1/4" flat, 19-5/8" long.....	2-1/2
	Bolt, machine, 3/8 x 7/8" with lock washer.....	
	Bolt, carriage, 3/8 x 1-1/2".....	
1266 S	Feed lever bracket, 3/16 x 4-3/4" flat, 2-5/8" long.....	3/4
	Bolt, machine, 5/16 x 3/4" (2 used).....	
1377 SA	Conveyor tightener with stud, right.....	2
	Bolt, machine, 3/8 x 1-3/4" (2 used).....	
1378 SA	Conveyor tightener with stud, left.....	2
	Bolt, machine, 3/8 x 1-3/4" (2 used).....	
1500 S	Feed roller stud, 7/8" Dia., 2-3/4" long.....	1/4
1508 S	Compression spring, 1-1/8" O. D., 7/16" long, 3 coils.....	1 oz.
1510 S	Compression spring, 11/16 x 1-9/16 x 2-1/2" long, 7-3/4 coils.....	3 oz.
1513 S	Extension spring, 7/8" O. D., 4-3/4" long, overall 6-1/2", 40 coils.....	1/4
	Bolt, machine, 5/16 x 1" with lock washer.....	
1514 S	Extension spring, 5/8" O. D., 2-1/4" long, overall 3-1/2", 41 coils.....	2 oz.
1553 S	Feed lever wire, 3/16" Dia., 6-1/2" long.....	2 oz.
1556 S	Stud for feed arm pawl, 7/8" Dia., 2-3/4" long.....	1/4
1585 S	Feed pawl spacer, 1-1/4" Dia., 7/16" thick.....	1/4
1624 SA	Conveyor chain with No. 67 steel chain and A845 S bar, 178 No. 67 plain links, 14 No. 67 ARS and 14 No. 67 ALS attachment links; 9 bars each followed by 6 plain links and 5 bars each followed by 7 plain links.....	81
1628 S	Shim 1/8 x 1-1/2" flat, 6-1/2" long, used with tractor drawn.....	1/2

**FEED AND DISTRIBUTER SHIELDS**



Part No.	Description	Wt. Lbs.
1170 SA	Ratchet wheel shield.....	6-1/2
	Bolt, stove, oven head, 1/4 x 1/2" with lock washer (2 used).....	
	Bolt, carriage, 5/16 x 1-1/4" with lock washer (3 used).....	
1232 S	Inner ratchet wheel shield.....	1
	Bolt, carriage, 1/4 x 1/2" with lock washer (4 used).....	
1318 S	Shield connecting distributor and ratchet wheel shields, 18" long.....	1-1/2
	Bolt, stove, oven head, 1/4 x 1/2" with lock washer (4 used).....	
1319 SA	Distributor chain shield.....	3-1/4
	Bolt, machine, 5/16 x 3/4" with lock washer.....	
	Bolt, machine, 3/8 x 1" with lock washer.....	
	Bolt, machine, 3/8 x 1-1/4" with lock washer.....	

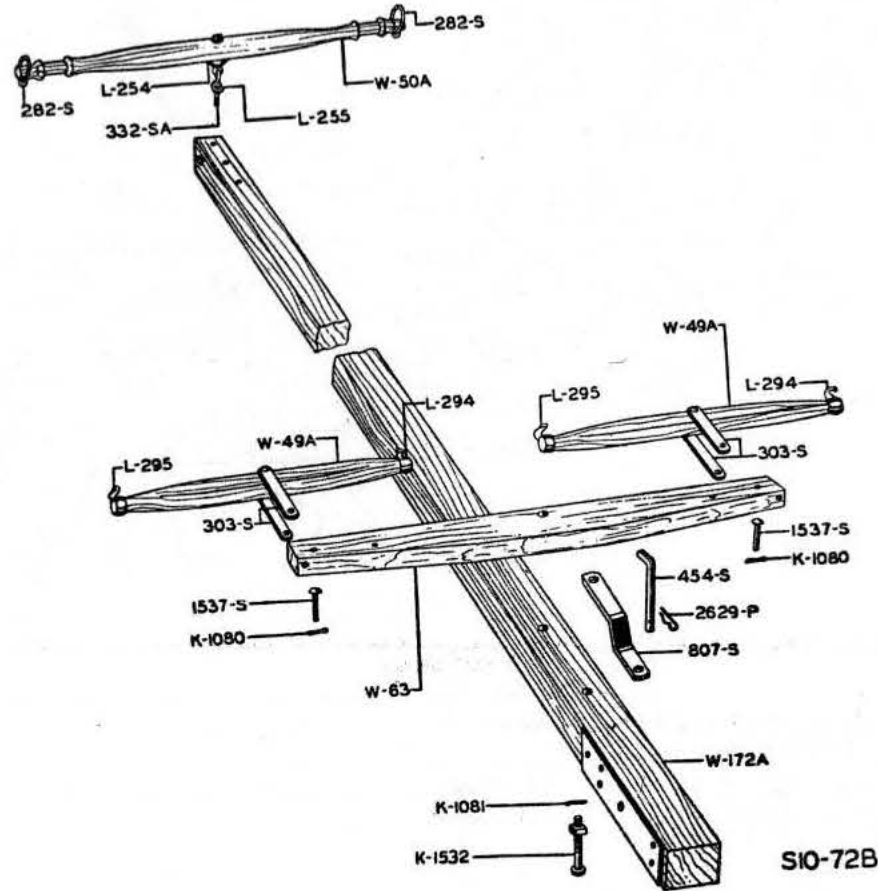
MAIN DRIVE



SI0-59B

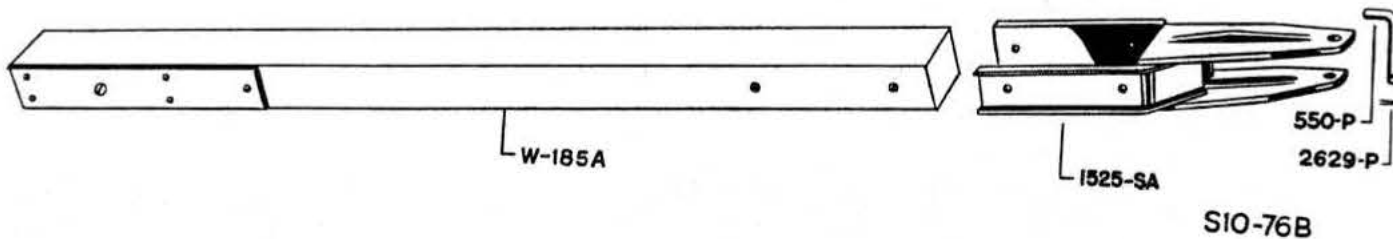
Part No.	Description	Wt. Lbs.
72	Steel chain link (complete chain 42 links)	2 oz.
K 610	Grease fitting, 5/16" drive type	1 oz.
K 836	Washer, 1-3/8" O. D., 7/16" I. D., 16 gauge	1 oz.
K 847	Washer, 1-1/2" O. D., 21/32" I. D., 13 gauge	1 oz.
K 1080	Spring cotter, 3/16 x 3/4" long	1 oz.
K 1081	Spring cotter, 3/16 x 1" long	1 oz.
K 1082	Spring cotter, 3/16 x 1-1/4" long	1 oz.
K 1155	Set screw, 3/8 x 5/8" long	1 oz.
K 1507	Lever latch	1/4
K 2880	Washer, 1" O. D., 7/16" I. D., 16 gauge galv.	1 oz.
L 296	Lever slide casting	1/2
L 300	Single set collar	1/4
L 314	Double set collar	1/2
L 316	Slide collar	1/2
L 322	Straddler roller	1-3/4
L 342	Bolt, machine, 3/8 x 3-3/4" with lock washer 6 tooth idler sprocket	1-3/4
L 400A	Bolt, carriage, 3/8 x 4" with lock washer Auxiliary drive arm post with pin	2
L 418	Bolt, carriage, 3/8 x 1-1/2" (3 used) Roller for auxiliary drive arm	1
L 568A	Bolt, machine, 3/8 x 3-1/2" with lock washer Drive arm post with pin	2-1/2
A375 SA-1	Bolt, carriage, 3/8 x 1-1/2" Bolt, carriage, 3/8 x 1-3/4" (2 used) Drive arm, complete with sprocket	7-1/4
378 S	Bushing, 19/32" O. D., 2-5/16" long	1 oz.
920 S	Bushing, 9/16" O. D., 3/8" long	1 oz.
1045 S	Shield connecting drive chain and upper cylinder chain shield, 4 x 20-1/4" long, 18 gauge	1-1/4
1046 SA	Bolt, oven head, 1/4 x 3/4" with lock washer (2 used) Upper cylinder chain shield, 4 x 30" long, 18 gauge	1-3/4
1047 S	Bolt, machine, 1/4 x 3/4" with lock washer (2 used) Top bracket for upper cylinder chain shield, 3/16 x 1" flat, 4-1/2" long	1/4
1123 SA	Drive chain shield, 4 x 14-1/8" long, 18 gauge Bolt, oven head, 1/4 x 3/4" with lock washer	1
1154 S	Drive rod, 9/16" Rd., 80-1/2" long	5-3/4
1159 S	Auxiliary drive rod, 1/2" Rd., 30-1/4" long	1-3/4
1171 S	Drive chain shield rear bracket, 3/16 x 1-1/4" flat, 6-1/4" long Bolt, carriage, 5/16 x 1-1/4"	1/2
1174 S	Drive lever, 5/16 x 1-1/4" flat, 16" long	1-3/4
1174 SA	Drive lever complete with latch slide and spring Bolt, machine, 3/8 x 1-1/4" with lock washer	2-3/4
1175 S	Drive lever sector, 3/16 x 6" flat, 10" long Bolt, machine, 3/8 x 7/8" with lock washer (2 used) Bolt, carriage, 5/16 x 3"	3-1/4
1176 S	Spacer, 1/4" I. D., 1-9/16" long	1 oz.
1186 SA	Drive arm, less sprocket	5
1187 SA	Chain straddler with bracket Bolt, carriage, 3/8 x 1-1/2" (3 used)	3
1189 SA	Auxiliary drive arm	2-1/4
1282 S	Bushing, 19/32" O. D., 9/16" long	1 oz.
1504 S	Bushing, 19/32" O. D., 2-7/16" long	2 oz.
1507 S	Compression spring, 7/8" O. D., 7" long, 23 coils	1/4
1510 S	Compression spring, 11/16 x 1-9/16 x 2-1/2" long, 7-3/4 coils	1/4
1552 S	Lever wire, 3/16" Dia., 5-5/16" long	2 oz.
121 SR	36 tooth main drive sprocket Bolt, machine, 1/2 x 1-3/4"	27-1/4

**POLE AND HITCH**



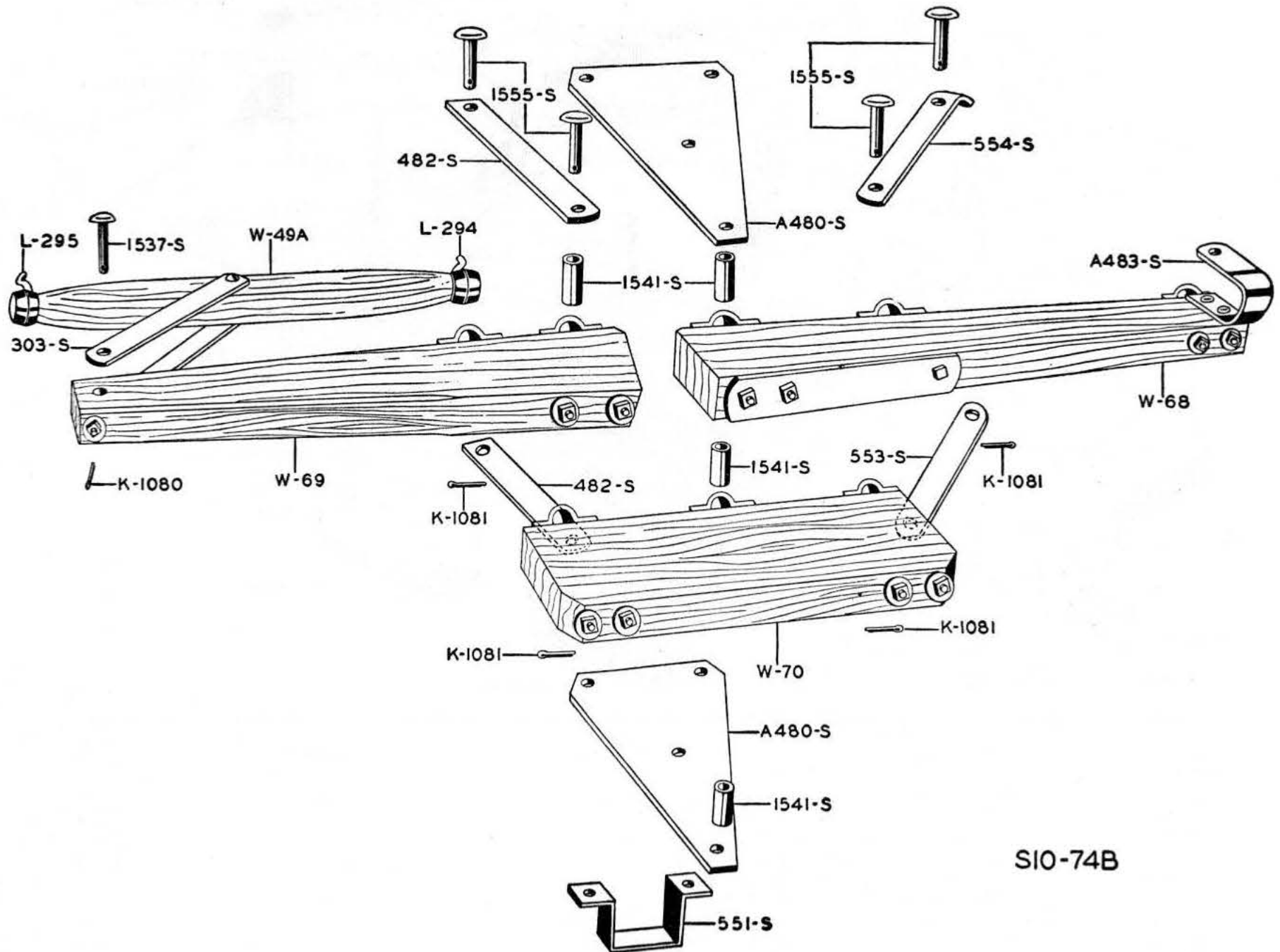
Part No.	Description	Wt. Lbs.
K 1080	Spring cotter, 3/16 x 3/4" long.....	1 oz.
K 1081	Spring cotter, 3/16 x 1" long.....	1 oz.
K 1532	Carriage bolt, 1/2 x 4" long, drilled for cotter.....	1/4
L 254	Neckyoke washer.....	1/4
L 255	Pole washer.....	1/4
L 294	Singletree hook, right.....	1/2
L 295	Singletree hook, left.....	1/2
2629 P	Spring clip.....	2 oz.
282 S	Ferrule and ring for neckyoke.....	3/4
303 S	Singletree strap, 3/16 x 1-1/4" flat, 9" long.....	1/2
	Rivet, oval head, 3/8 x 2-1/2".....	
332 SA	Eyebolt for neckyoke.....	3/4
454 S	Hammer strap pin, 5/8" Rd., 7-1/8" long.....	1/2
807 S	Hammer strap, 5/16 x 1-1/2" half oval, 11-3/4" long.....	1
1537 S	Pin for doubletree, 3/8" Dia., 2-3/4" long, W. B. head.....	2 oz.
W 49A	Singletree complete.....	5
W 50A	Neckyoke complete.....	8
W 63	Doubletree.....	7-1/2
W 172A	Pole.....	27

**TRACTOR HITCH**



Part No.	Description	Wt. Lbs.
550 P	Hitch pin, 3/4" Rd., 6-5/8" long.....	1
2629 P	Spring clip.....	2 oz.
1525 SA	Hitch irons complete.....	8-3/4
	Bolt, machine, 1/2 x 4-1/2" with lock washer (2 used).....	
W 185A	Stub tongue.....	13-1/2

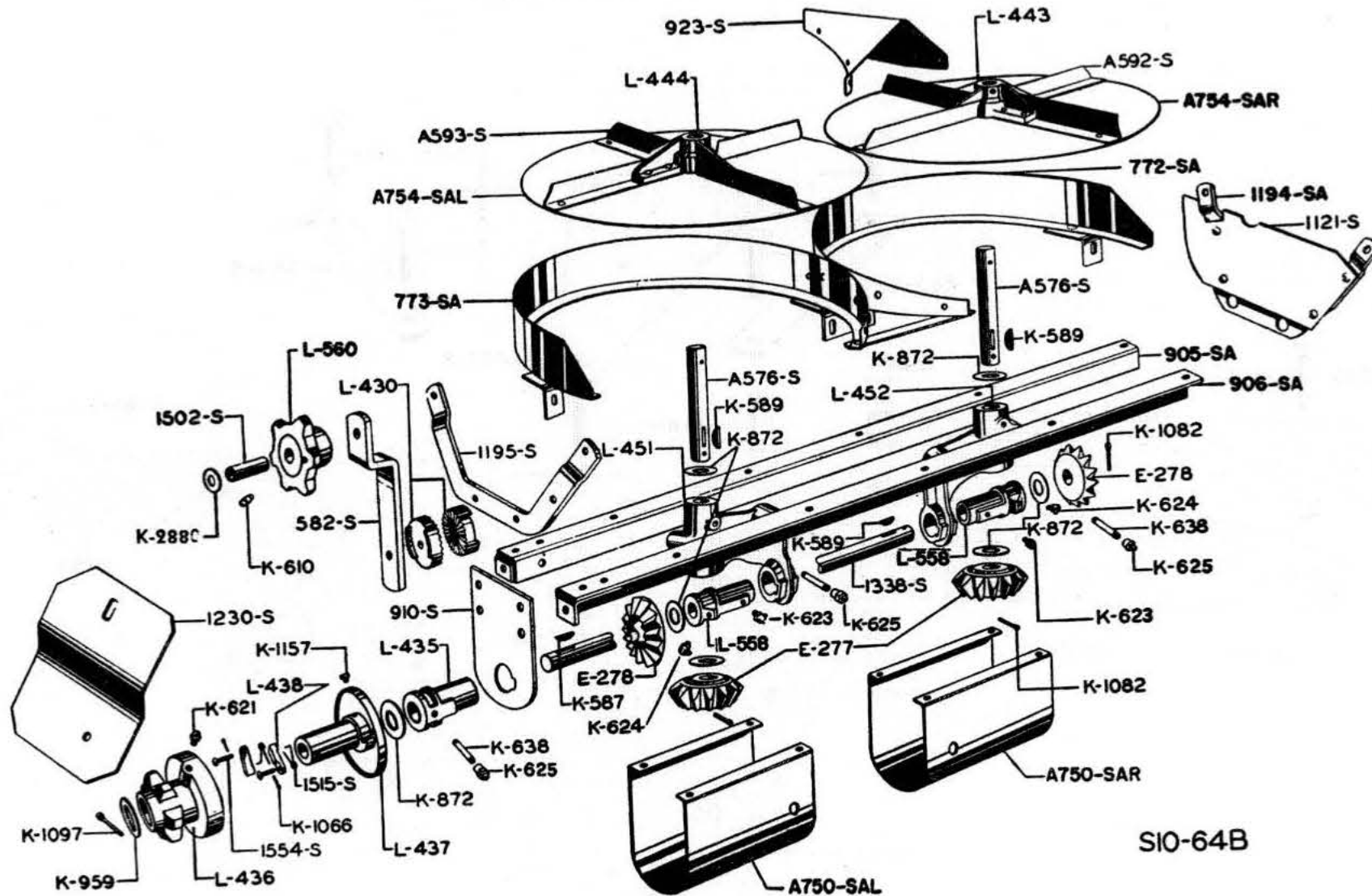
THREE HORSE HITCH



S10-74B

Part No.	Description	Wt. Lbs.
K 1080	Spring cotter, 3/16 x 3/4" long.....	1 oz.
K 1081	Spring cotter, 3/16 x 1" long.....	1 oz.
L 294	Singletree hook, right.....	1/2
L 295	Singletree hook, left.....	1/2
303 S	Singletree strap, 3/16 x 1-1/4" flat, 9" long.....	1/2
A480 S	Rivet, oval head, 3/8 x 2-1/2".....	5-1/4
482 S	Center plate.....	
A483 S	Bolt, machine, 5/8 x 3" (2 used).....	
551 S	Bolt, machine, 5/8 x 6" (2 used).....	
553 S	Three horse bar strap, left, 1/4 x 1-1/2" flat, 10" long.....	1-1/4
554 S	Clevis, 5/16 x 2-1/4" flat, 12" long.....	2-1/2
1537 S	Bolt, carriage, 3/8 x 2-1/2" (2 used).....	
1541 S	Pole strap, 3/16 x 1-3/4" flat, 12-3/4" long.....	1-1/4
1555 S	Three horse bar strap, right, 1/4 x 1-1/2" flat, 10-1/2" long.....	1-1/4
W 49A	Three horse bar slide strap, right, 1/4 x 1-1/2" flat, 12" long.....	1-1/4
W 68	Pin, 3/8" Dia., 2-3/4" long, W. B. head.....	2 oz.
W 69	Bushing, 27/32" (.840") O. D., 1-7/8" long.....	2 oz.
W 70	Pin, 5/8" Dia., 3" long, oval head.....	1/4
	Singletree complete.....	5
	Three horse bar, no irons, right, 29" long.....	5
	Three horse bar, no irons, left, 31-1/2" long.....	6-3/4
	Equalizer bar, 20" long.....	5-1/2

# LIME ATTACHMENT DISC ASSEMBLY



SIO-64B

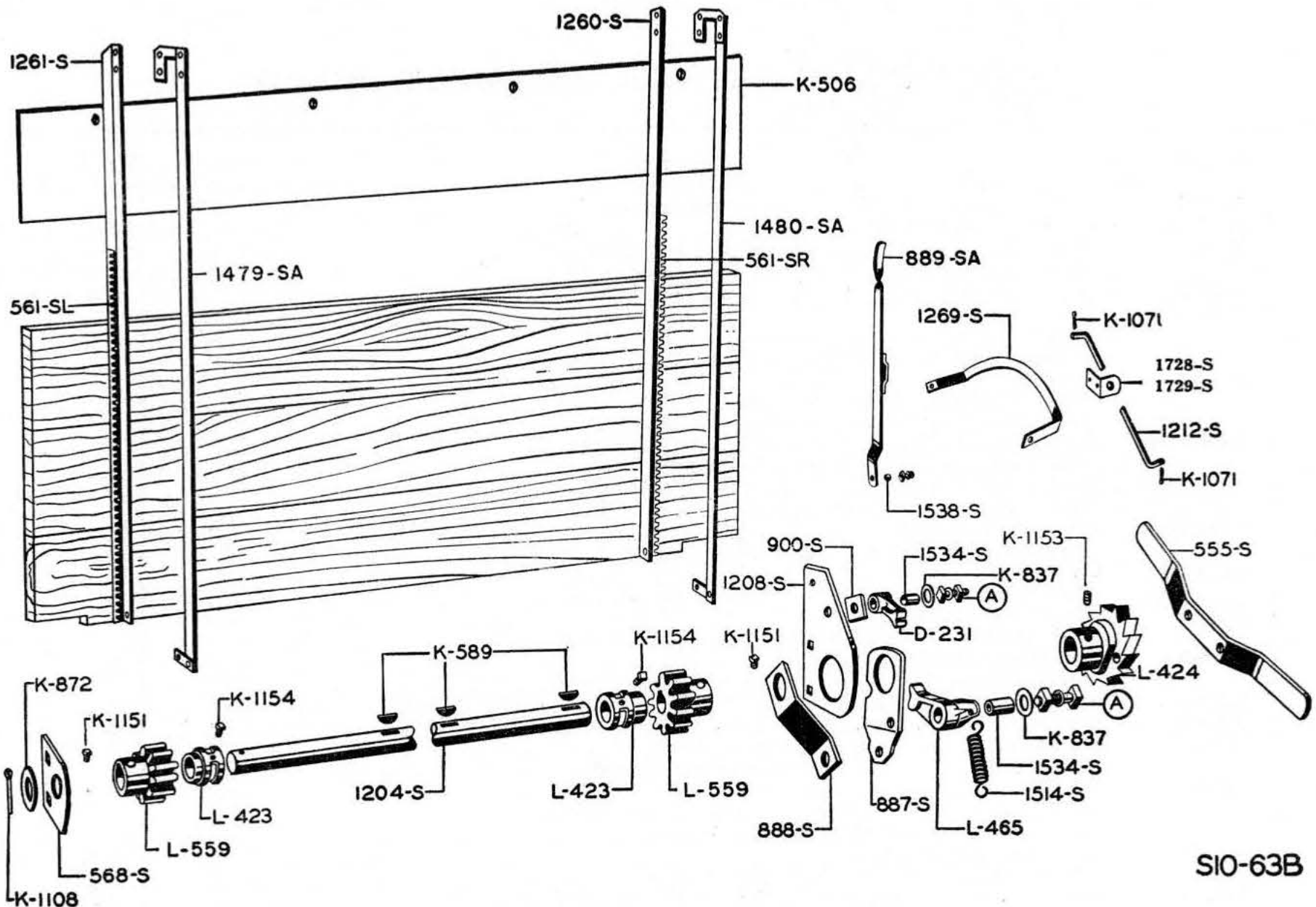
Part No.	Description	Wt. Lbs.
E 277	13 tooth bevel gear, 1" bore. Uses K 589 key.....	1-1/4
E 278	14 tooth bevel gear, 1" bore. Uses K 589 key.....	1-1/2
K 587	No. 26 Woodruff key, 3/16" thick, 1-3/4" long.....	1 oz.
K 589	No. 13 Woodruff key, 3/16" thick, 1" long.....	1 oz.
K 610	Grease fitting, 5/16" drive type.....	1 oz.
K 621	Grease fitting, 1/8" pipe thread, straight.....	1 oz.
K 623	Grease fitting, 1/8" pipe thread, 67-1/2 degree elbow.....	1 oz.
K 624	Grease fitting, 1/8" pipe thread, 90 degree elbow.....	1 oz.
K 625	Grease fitting, 1/8" female pipe thread, straight.....	1 oz.
K 638	Pipe nipple, 1/8" I. D., 1-1/2" long.....	1 oz.
K 872	Washer, 1-3/4" O. D., 1-1/32" I. D., 16 gauge.....	1 oz.
K 959	Washer, 2-1/2" O. D., 1-11/16" I. D., 16 gauge.....	1 oz.
K 1066	Spring cotter, 3/32 x 1/2" long.....	1 oz.
K 1082	Spring cotter, 3/16 x 1-1/4" long.....	1 oz.
K 1097	Spring cotter, 1/4 x 2-1/4" long.....	1 oz.
K 1157	Set screw, 3/8 x 5/8" long, cross drilled.....	1 oz.
K 2880	Washer, 1" O. D., 7/16" I. D., 16 gauge galv.....	1 oz.
L 430	Tightener ratchet.....	1/2
L 435	Bearing, 1" bore.....	1
L 436	6 tooth ratchet sprocket.....	3
AL 436	6 tooth ratchet sprocket with ratchet clutch, spring and pawls.....	6-1/4
L 437	Ratchet clutch, 1" bore, with pawl and spring. Uses K 587 key.....	3-1/4
L 438	Clutch pawl.....	2 oz.
L 443	Disc spider, right.....	3-1/2
	Bolt, machine, 5/16 x 2-1/4" with lock washer.....	
	Rivet, wagon box head, 1/4 x 7/8" (8 used).....	
L 444	Disc spider, left.....	3-1/2
	Bolt, machine, 5/16 x 2-1/4" with lock washer.....	
	Rivet, wagon box head, 1/4 x 7/8" (8 used).....	
L 451	Double bearing, left.....	4-3/4
	Bolt, machine, 3/8 x 2-3/4" with lock washer (3 used).....	
L 452	Double bearing, right.....	4-3/4
	Bolt, machine, 3/8 x 2-3/4" with lock washer (3 used).....	
L 558	Bearing, 1" bore.....	1-1/2
L 560	6 tooth tightener sprocket.....	1
	Bolt, machine, 7/8 x 2-1/2" with lock washer.....	

## LIME ATTACHMENT DISC ASSEMBLY—(Con't)

Part No.	Description	Wt. Lbs.
AL 560	6 tooth tightener sprocket with bolt and bushing.....	1-1/4
A576 S	Vertical shaft, 1" Rd., 6-5/8" long.....	1-1/2
582 S	Chain tightener arm, 5/16 x 1-1/2" flat, 7-3/4" long.....	1
	Bolt, machine, 3/8 x 2-1/4" with lock washer.....	
AA582 S	Chain tightener complete with bolt, bushing and sprocket.....	2-1/2
A 592 S	Disc wing, right.....	1
	Rivet, wagon box head, 1/4 x 3/8".....	
	Rivet, wagon box head, 1/4 x 7/8".....	
A593 S	Disc wing, left.....	1
	Rivet, wagon box head, 1/4 x 3/8".....	
	Rivet, wagon box head, 1/4 x 7/8" (2 used).....	
A750 SAR	Bearing shield, right, 9-1/2 x 16-3/8" long, 18 gauge.....	3
	Bolt, machine, 1/4 x 1/2" with lock washer (4 used).....	
A750 SAL	Bearing shield, left, 9-1/2 x 16-3/8" long, 18 gauge.....	3
	Bolt, machine, 1/4 x 1/2" with lock washer (4 used).....	
A754 SAR	Disc complete, right.....	11
	Bolt, machine, 5/16 x 2-1/4" with lock washer.....	
A754 SAL	Disc complete, left.....	11
	Bolt, machine, 5/16 x 2-1/4" with lock washer.....	
772 SA	Disc guard complete, right.....	4
	Bolt, machine, 5/16 x 3/4" with lock washer (2 used).....	
773 SA	Disc guard complete, left.....	4
	Bolt, machine, 5/16 x 3/4" with lock washer (2 used).....	
905 SA	Front main angle with clip, 1-3/8 x 1-3/8 x 5/32" angle, 42-7/8" long.....	5
906 SA	Rear main angle with clip, 1-3/8 x 1-3/8 x 5/32" angle, 42-7/8" long.....	5
910 S	Bearing plate, 1/4 x 4-1/2" flat, 9-5/8" long.....	3
	Bolt, machine, 3/8 x 1" with lock washer (4 used).....	
923 S	Divider.....	3/4
	Bolt, oven head, 1/4 x 1/2" with lock washer (4 used).....	
	Bolt, oven head, 1/4 x 3/4" with lock washer.....	
1121 S	Shield on right hanger.....	1-1/2
	Rivet, wagon box head, 1/4 x 5/8" (4 used).....	
1194 SA	Main hanger complete, right, 5/16 x 1-1/2" flat, 25" long.....	4-3/4
	Bolt, machine, 3/8 x 7/8" with lock washer (2 used).....	
	Bolt, carriage, 3/8 x 1-3/4".....	
	Bolt, carriage, 1/2 x 1-1/4" with lock washer.....	
1195 S	Main hanger, left, 5/16 x 1-1/2" flat, 20-1/2" long.....	2-3/4
	Bolt, carriage, 3/8 x 1-3/4".....	
	Bolt, carriage, 1/2 x 1-1/4" with lock washer.....	
1230 S	Clutch shield, 7-9/16 x 10-13/16", 18 gauge.....	1-1/2
1338 S	Shaft, 1" Rd., 34-11/16" long.....	7-3/4
1502 S	Bushing, 19/32" O. D., 1-9/16" long.....	2 oz.
1515 S	Torsion spring for pawl.....	1 oz.
1554 S	Pin for pawl, 1/4" Dia., 1" long, W. B. head.....	1 oz.

INSTRUCTIONS FOR SETTING UP AND OPERATING

ENDGATE ATTACHMENT TAIL BOARD



S10-63B

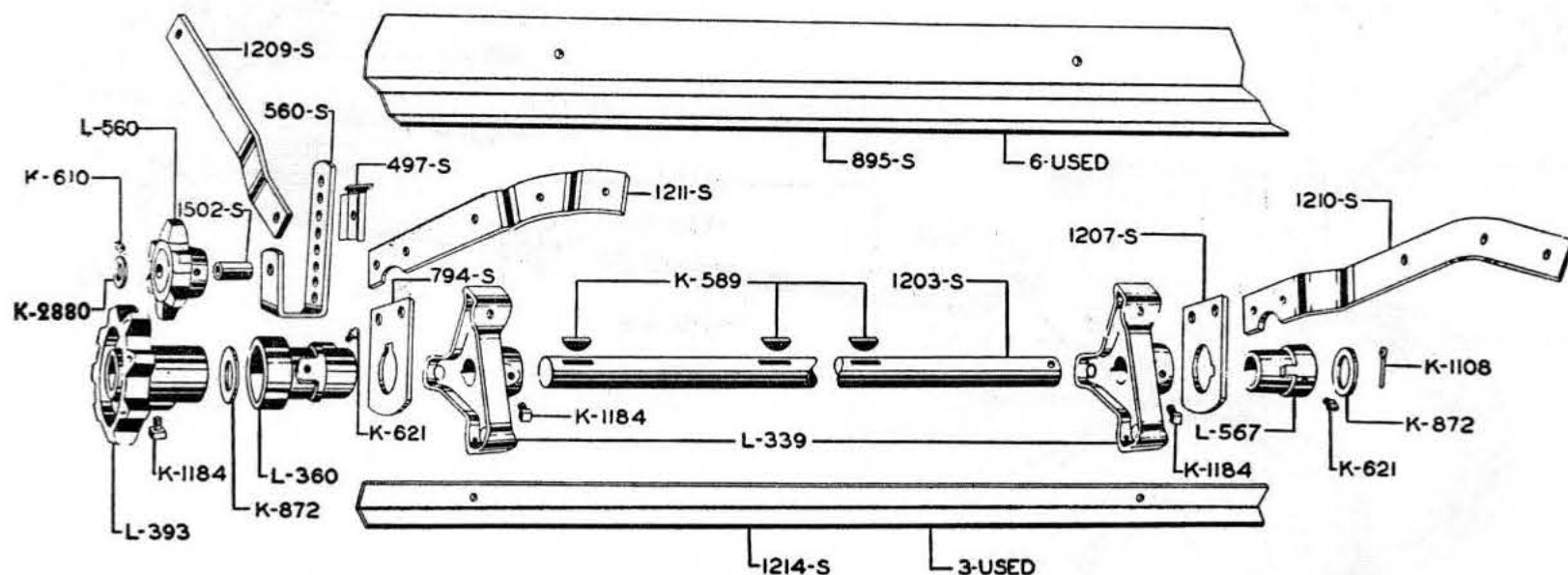
Part No.	Description	Wt. Lbs.
D 231	Retention pawl.....	1/2
K 506	Retainer on front endgate, 6 x 37" long.....	4
K 589	Bolt, carriage, 1/4 x 1-1/4" (4 used).....	1 oz.
K 837	No. 13 Woodruff key, 3/16" thick, 1" long.....	1 oz.
K 872	Washer, 1-3/8" O. D., 9/16" I. D., 16 gauge.....	1 oz.
K 1071	Washer, 1-3/4" O. D., 1-1/32" I. D., 16 gauge.....	1 oz.
K 1108	Spring cotter, 1/8 x 3/4" long.....	1 oz.
K 1151	Spring cotter, 5/16 x 1-1/2" long.....	1 oz.
K 1153	Set screw, 5/16 x 5/16" long.....	1 oz.
K 1154	Set screw, 3/8 x 3/8" long, hollow head.....	1 oz.
K 1263	Set screw, 3/8 x 1/2" long.....	1 oz.
L 423	Hollow head set screw wrench, 3/8" (not illustrated).....	2 oz.
L 424	Spacer collar, 1" bore.....	1/2
L 465	Ratchet.....	3-1/4
L 559	Ratchet pawl.....	1/2
555 S	Bolt, machine, 1/2 x 2-1/4" with lock washer.....	1-3/4
561 SR	10 tooth spur gear.....	2
561 SL	Handle for ratchet, 1/4 x 1-1/2" flat, 17-1/2" long.....	3-1/4
568 S	Rivet, oval head, 3/8 x 1-1/4" (2 used).....	3-1/4
887 S	Gear tooth angle, right, 1 x 1 x 1/4" angle, 25-25/32" long.....	1
888 S	Gear tooth angle, left, 1 x 1 x 1/4" angle, 25-25/32" long.....	1-1/4
889 SA	Bearing plate, left, 3/16 x 4" flat, 4" long.....	1/2
900 S	Bolt, carriage, 3/8 x 7/8" with lock washer (2 used).....	1-3/4
1204 S	Ratchet arm, 3/16 x 2-3/4" flat, 7-7/8" long.....	2 oz.
1206 S	Brace for ratchet arm, 3/16 x 1-1/2" flat, 5-1/2" long.....	10
1208 S	Front control lever, 3/16 x 1-1/4" flat, 23-5/8" long.....	1/4
1212 S	Bolt, machine, 1/4 x 3/4" with lock washer.....	1-1/2
1260 S	Bolt, machine, 3/8 x 1-1/2" with lock washer.....	3-1/2
1261 S	Spacer for pawl, 1/4 x 1-1/4" flat, 1-1/4" long.....	5
	Raising shaft, 1" Rd., 45-1/8" long. Uses K 589 key.....	5
	Support for connecting rod.....	
	Bolt, carriage, 1/4 x 1-1/4".....	
	Bearing plate, right, 3/16 x 4" flat, 6-5/8" long.....	
	Bolt, oven head, 5/16 x 7/8" with lock washer.....	
	Bolt, carriage, 3/8 x 7/8" with lock washer.....	
	Connecting rod, 3/8" Rd., 110" long.....	
	Front guide angle, right, 1-3/8 x 1-3/8 x 5/32" angle, 42-1/2" long.....	
	Front guide angle, left, 1-3/8 x 1-3/8 x 5/32" angle, 42-1/2" long.....	



**ENDGATE ATTACHMENT TAIL BOARD (Con't)**

Part No.	Description	Wt. Lbs.
1269 S	Guide for front control lever, 1/8 x 1" flat, 22" long.....	3/4
1479 SA	Rear guide straps, left, 1/4 x 1-1/4" flat, 42-1/2" long..... Bolt, machine, 5/16 x 1" with lock washer (2 used).....	4
1480 SA	Rear guide straps, right, 1/4 x 1-1/4" flat, 42-1/2" long..... Bolt, machine, 5/16 x 1" with lock washer (2 used)..... Bolt, machine, 3/8 x 7/8" with lock washer.....	4
1514 S	Extension spring, 5/8" O. D., 2-1/4" long, overall 3-1/2", 41 coils.....	2 oz.
1534 S	Bushing, 11/16" O. D., 1-1/16" long.....	1 oz.
1538 S	Bushing, 9/16" O. D., 1/4" long.....	1 oz.
1728 S	Front support for connecting rod, 1/8 x 3-1/4" flat, 4-5/16" long.....	1/4
1729 S	Rear support for connecting arm, 1/8 x 3-1/4" flat, 4-3/8" long.....	1/4
W 169 A	Endgate complete..... "A" machine bolt, 1/2" Dia., 2-1/4" long, with lock washer.....	27

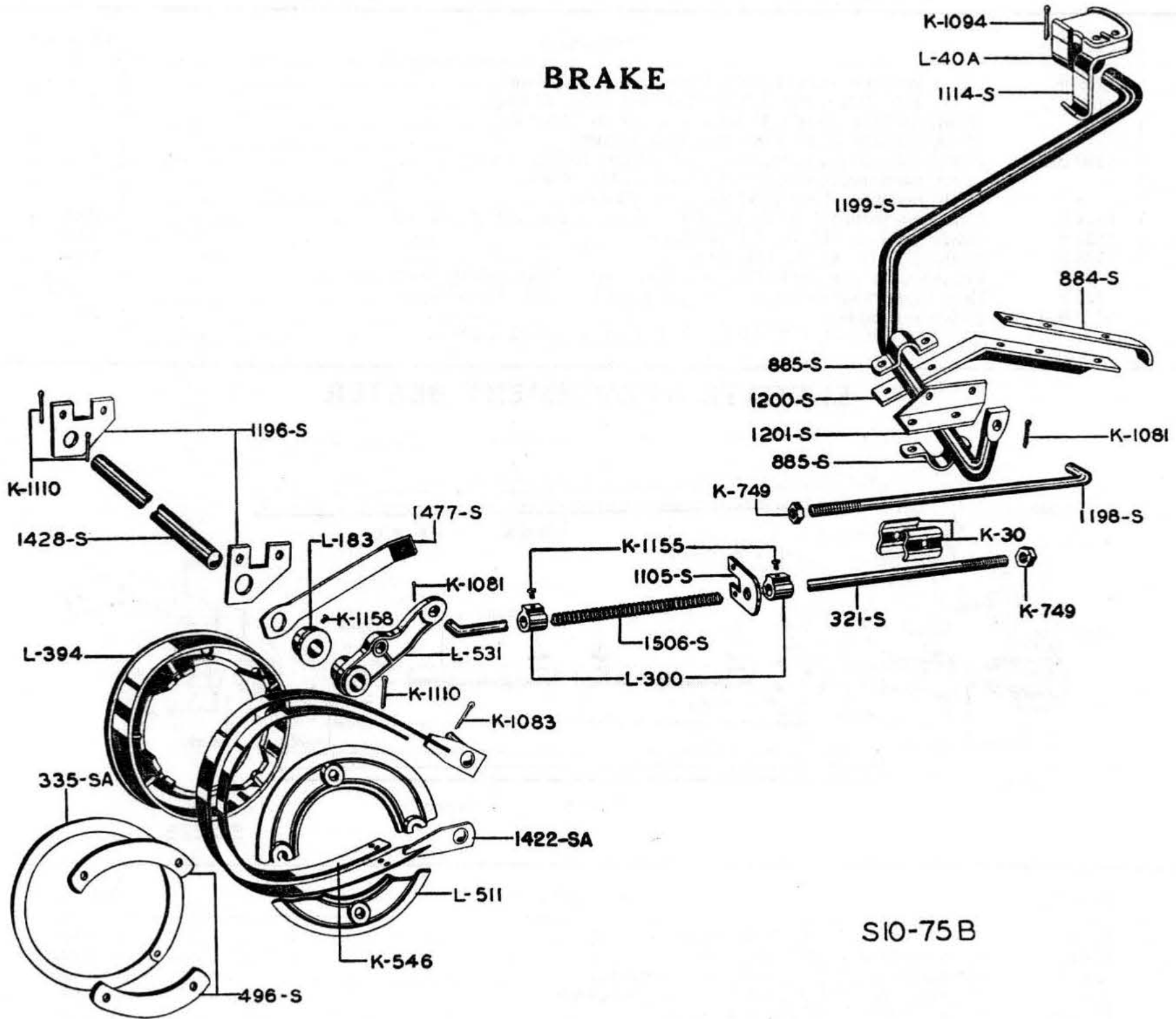
**ENDGATE ATTACHMENT BEATER**



S10-62B

Part No.	Description	Wt. Lbs.
K 589	No. 13 Woodruff key, 3/16" thick, 1" long.....	1 oz.
K 610	Grease fitting, 5/16" drive type.....	1 oz.
K 621	Grease fitting, 1/8" pipe thread, straight.....	1 oz.
K 872	Washer, 1-3/4" O. D., 1-1/32" I. D., 16 gauge.....	1 oz.
K 1108	Spring cotter, 5/16" x 1-1/2" long.....	1 oz.
K 1184	Set screw, 1/2" x 3/4" long.....	1 oz.
K 2880	Washer, 1" O. D., 7/16" I. D., 16 gauge galv.....	1 oz.
L 339	Beater heads, 1" bore. Uses K 589 key.....	2-3/4
L 360	Bearing, left.....	1
L 393	8 tooth sprocket, 1" bore. Uses K 589 key.....	2-1/4
L 560	6 tooth tightener sprocket..... Bolt, machine, 3/8 x 2-1/2" with lock washer.....	1
AL 560	6 tooth tightener sprocket with bolt and bushing.....	1-1/4
L 567	Bearing, right.....	3/4
497 S	Lock for chain tightener arm..... Bolt, machine, 3/8 x 1-1/4" with lock washer.....	2 oz.
560 S	Chain tightener arm, 5/16 x 1-1/4" flat, 9-1/2" long..... Bolt, machine, 3/8 x 1-1/2" with lock washer.....	1
AA560 S	Chain tightener complete with sprocket.....	2-1/4
794 S	Bearing plate, left, 3/16 x 3" flat, 3-7/8" long..... Bolt, carriage, 3/8 x 7/8" with lock washer..... Bolt, carriage, 3/8 x 1-1/4" with lock washer.....	3/4
895 S	Main cylinder filler sheets, 6 x 37" long, 14 gauge..... Bolt, machine, 3/8 x 1" with lock washer (2 used).....	5-1/4
1203 S	Shaft, 1" Rd., 44-3/8" long.....	10
1207 S	Bearing plate, right, 3/16 x 3" flat, 3-7/8" long..... Bolt, carriage, 3/8 x 7/8" with lock washer (2 used).....	3/4
1209 S	Bearing brace, 1/4 x 1-1/4" flat, 8-1/2" long..... Bolt, carriage, 1/2 x 1-1/4" with lock washer.....	3/4
1210 S	Bearing support, right, 5/16 x 1-3/4" flat, 20-1/2" long..... Bolt, carriage, 3/8 x 1-3/4" (2 used).....	3-1/4
1211 S	Bearing support, left, 5/16 x 1-3/4" flat, 20-1/2" long..... Bolt, carriage, 3/8 x 1-3/4" (2 used).....	3-1/4
1214 S	Beater bar, 1-1/4 x 1-1/4 x 1/8" angle, 37-1/4" long..... Bolt, machine, 3/8 x 1" with lock washer (2 used).....	3
1502 S	Bushing, 19/32" O. D., 1-9/16" long.....	2 oz.

**BRAKE**



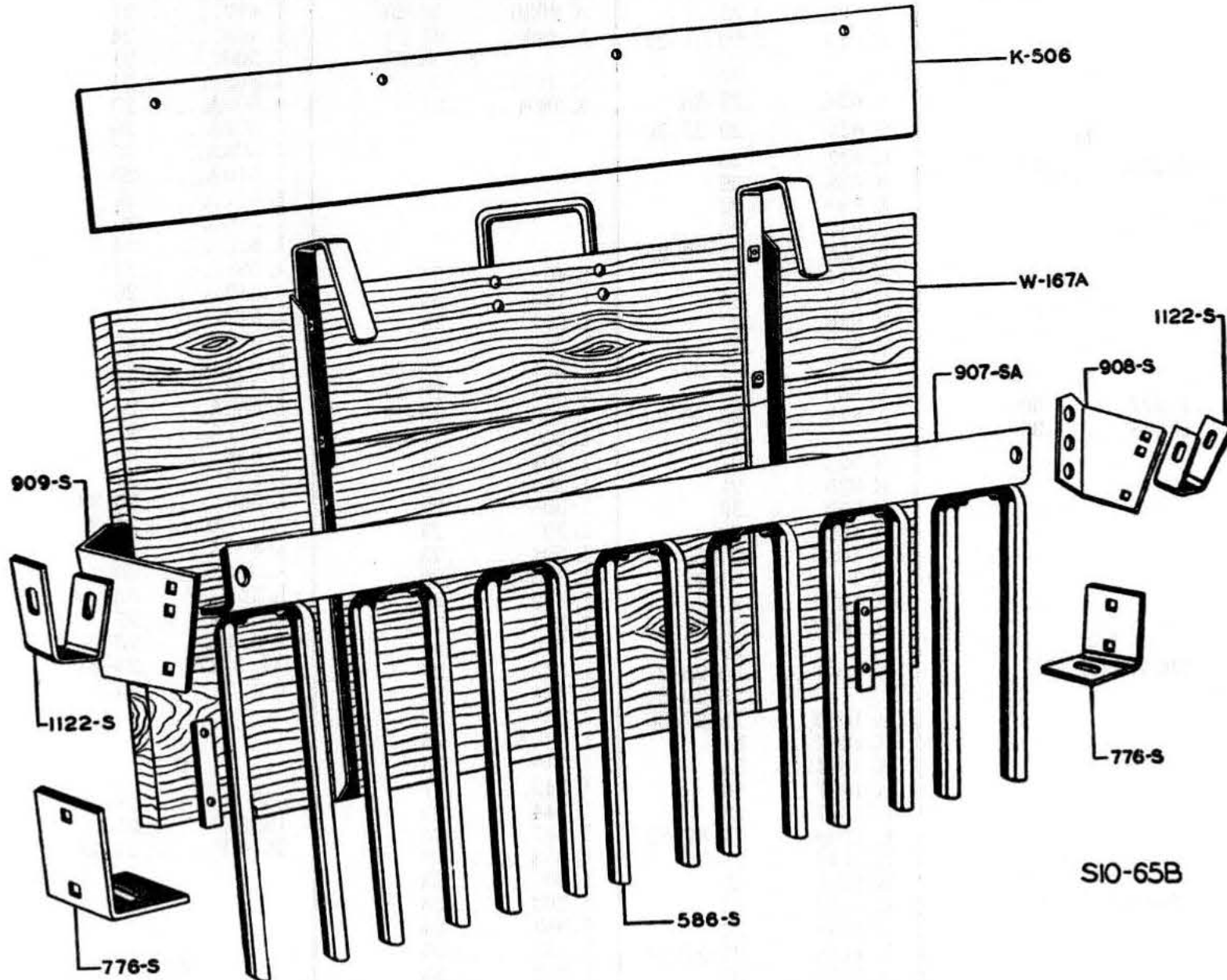
S10-75 B

Part No.	Description	Wt. Lbs.
K 30	Rod clamp.....	1/2
K 546	Bolt, machine, 3/8 x 1-1/2" with lock washer.....	1
K 749	Brake lining, 1-3/4" wide, 30" long.....	1 oz.
K 1081	Rivet, copper No. 8, 5/8" long (7 used).....	1 oz.
K 1083	Hexagon nut, 9/16".....	1 oz.
K 1094	Spring cotter, 3/16 x 1" long.....	1 oz.
K 1110	Spring cotter, 3/16 x 1-1/2" long.....	1 oz.
K 1155	Spring cotter, 1/4 x 1-1/2" long.....	1 oz.
K 1158	Spring cotter, 5/16 x 2-1/4" long.....	1 oz.
L 40A	Set screw, 3/8" x 5/8" long.....	1 oz.
L 183	Set screw, 3/8" x 3/4" long.....	2-1/4
L 300	Pedal casting.....	3/4
L 394	Cross shaft collar.....	1/4
L 511	Single set collar.....	12-1/2
L 531	Brake drum.....	6-1/2
321 S	Spacer ring (rubber tired machine only).....	2-3/4
335 SA	Bolt, carriage, 1/2 x 3-3/4" with hexagon nut and lock washer (4 used).....	5-3/4
496 S	Spacer ring (steel wheel machine only).....	1-1/4
884 S	Brake clamp (steel wheel machine only).....	1-1/4
885 S	Bolt, machine, 1/2 x 3-1/2" with lock washer.....	1-1/4
	Inside pedal shaft, plate, 1/4 x 1-1/2" flat, 10-9/16" long.....	1/2
	Bolt, machine, 5/16 x 1-3/4" with lock washer (3 used).....	
	Pedal shaft bearing cap, 1/4 x 1-1/2" flat, 5-1/4" long.....	
	Bolt, machine, 5/16 x 3/4" with lock washer.....	

**BRAKE (Con't)**

Part No.	Description	Wt. Lbs.
1105 S	Rod support, 3/16 x 3" flat, 4" long..... Bolt, machine, 5/16 x 7/8" with lock washer (2 used).....	3/4
1114 S	Safety latch, 1/4 x 1-1/4" flat, 6-1/2" long..... Rivet, oval head, 5/16 x 1" (2 used).....	1/2
1196 S	Cross shaft bearing plate, 1/4 x 4" flat, 5-1/2" long..... Bolt, machine, 3/8 x 1" with lock washer.....	1-1/2
1198 S	Short brake rod with nut, 9/16" Rd., 22-3/8" long.....	1-1/2
1199 S	Pedal shaft, 1" Rd., 41-1/2" long.....	9-1/4
1200 S	Inside pedal shaft bracket, 1-1/2 x 1-1/4 x 5/32" angle, 17-1/4" long.....	2-1/4
1201 S	Outside pedal shaft bracket, 2 x 1-1/2 x 3/16" angle, 5-1/2" long.....	1
1422 SA	Brake band with lining.....	3-1/2
1428 S	Cross shaft, 1-1/8" Rd., 47" long.....	13-1/4
1477 S	Cross shaft brace, 5/16 x 1-1/2" flat, 15" long..... Bolt, machine, 3/8 x 1" with lock washer.....	2
1506 S	Compression spring, 7/8" O. D., 10" long, 32-1/2 coils.....	1/2

**LIME ATTACHMENT END BOARD AND TINE RAKE**



Part No.	Description	Wt. Lbs.
K 506	Retainers on front endgate, 6" wide, 37" long..... Bolt, carriage, 1/4 x 1-1/4" (4 used).....	4
586 S	Rake tines, 5/16 x 1-1/4" half oval, 23-1/2" long..... Rivet, oval head, 5/16 x 7/8" (2 used).....	1-3/4
776 S	Tine support, 3 x 2 x 3/16" angle, 2-1/2" long..... Bolt, carriage, 5/16 x 1-1/2".....	1/2
907 SA	Tine rake complete.....	19-1/2
908 S	Rake support bracket, right..... Bolt, carriage, 5/16 x 1-1/2"..... Bolt, machine, 1/2 x 1" with lock washer.....	1
909 S	Rake support bracket, left..... Bolt, carriage, 5/16 x 1/2"..... Bolt, machine, 1/2 x 1" with lock washer.....	1
1122 S	Bracket extension, 3/16 x 1-1/4" flat, 4-5/8" long..... Bolt, machine, 5/16 x 3/4" with lock washer..... Bolt, carriage, 5/16 x 1" with lock washer.....	1/4
W 167 A	Endboard complete.....	16

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561 SL.....	32	1144 S.....	17	1311 S.....	24	1728 S.....	33
568 S.....	32	1147 S.....	21	1312 S.....	24	1729 S.....	33
A576 S.....	31	1148 SA.....	17	1314 S.....	17		
582 S.....	31	1150 S.....	20	1315 S.....	17	<b>SR</b>	
AA582 S.....	31	1150 SA.....	20	1317 S.....	17	121 SR.....	20-27
586 S.....	35	1151 SA.....	26	1318 S.....	26	01436 SRA..	18
A592 S.....	31	1152 S.....	26	1319 SA.....	26	01437 SRA..	18
A593 S.....	31	1154 S.....	27	1323 S.....	24	01439 SRA..	18
617 S.....	19	1155 SA.....	23	AA1323 S....	24	01440 SRA..	18
A750 SAR.....	31	1156 SA.....	23	1336 S.....	20	01441 SRA..	18
A750 SAL.....	31	1157 SA.....	23	1338 S.....	31		
A754 SAR.....	31	1158 S.....	23	1377 SA.....	26	<b>W</b>	
A754 SAL.....	31	A1158 S.....	23	1378 SA.....	26	W 49A.....	28-29
772 SA.....	31	1159 S.....	27	1422 SA.....	35	W 50A.....	28
773 SA.....	31	1160 S.....	22	1428 S.....	35	W 63.....	28
776 S.....	35	A1160 S.....	22	1464 SA.....	23	W 68.....	29
794 S.....	33	1161 S.....	22	AA1464 SA1	23	W 69.....	29
807 S.....	28	1170 SA.....	26	1474 S.....	18	W 70.....	29
A845 S.....	26	1171 S.....	27	1477 S.....	35	W 74A.....	18
870 S.....	21	1172 S.....	17	1479 SA.....	33	W 75A.....	18
878 S.....	26	1173 S.....	24	1480 SA.....	33	W 80A-1....	19
878 SA.....	26	1174 S.....	27	1498 S.....	22	W 83.....	19
884 S.....	34	1174 SA.....	27	1500 S.....	26	W 84A.....	19
885 S.....	34	1175 S.....	27	1502 S.....	31-33	W 96.....	19
887 S.....	32	1176 S.....	27	1504 S.....	27	W 100.....	18
888 S.....	32	1183 SA.....	19	1505 S.....	20	W 100A.....	18
889 SA.....	32	1184 S.....	19	1506 S.....	35	W 101.....	18
895 S.....	33	1185 S.....	19	1507 S.....	27	W 102.....	18
900 S.....	32	1186 SA.....	27	1508 S.....	26	W 103.....	18
905 SA.....	31	1187 SA.....	27	1510 S.....	26-27	W 104.....	18
906 SA.....	31	1189 SA.....	27	1513 S.....	26	W 104A.....	18
907 SA.....	35	1192 SA.....	21	1514 S.....	26-33	W 106.....	18
908 S.....	35	1193 S.....	21	1515 S.....	20-31	W 107.....	18
909 S.....	35	1194 SA.....	31	1516 S.....	20	W 165.....	19
910 S.....	31	1195 S.....	31	1525 SA.....	28	W 167A.....	35
920 S.....	26-27	1196 S.....	35	1527 S.....	22-23	W 169A.....	33
923 S.....	31	1198 S.....	35	1534 S.....	33	W 171.....	18
926 S.....	26	1199 S.....	35	1537 S.....	28-29	W 172A.....	28
936 S1.....	17	1200 S.....	35	1538 S.....	33	W 185A.....	28
937 S1A.....	17	1201 S.....	35	1539 S2.....	24	W 605.....	19
1015 S.....	22	1203 S.....	33	1539 SA2....	24		
1045 S.....	27	1204 S.....	32	1540 S2.....	24	<b>W-SR</b>	
1046 SA.....	27	1206 S.....	32	1540 SA2....	24	W 115 SRA..	18
1047 S.....	27	1207 S.....	33	1541 S.....	29	W 116 SR...18	
1058 S.....	20	1208 S.....	32	A1542 SA....	24	W 117 SR...18	
1059 S.....	20	1209 S.....	33	AA1542 SA..	24	W 118 SR...18	
1060 S.....	20	1210 S.....	33	1548 SA.....	22		
1078 S.....	20	1211 S.....	33	1549 SA.....	22	<b>O-WC</b>	
1080 S.....	17	1212 S.....	32	1550 SA.....	22	0114 WC....	21
1081 S.....	17	1214 S.....	33	1551 S.....	24		
1092 S.....	21	1217 S.....	21	1552 S.....	27		
1092 SA.....	21	1228 S.....	21	1553 S.....	26		
1096 S.....	21	1230 S.....	31	1554 S.....	31		



Most farm accidents, like industrial, home and highway accidents, are caused by the failure of some individual to observe simple and fundamental safe rules or precaution. For this reason farm accidents, just as other types of accidents, can be prevented by recognizing the cause of accidents and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of farm equipment, there are many points that cannot be completely safeguarded without interfering with accessibility and efficient operation.

A careful operator is the best insurance against an accident.

The complete observance of one simple rule would prevent many thousands serious injuries each year. That rule is "NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST A MACHINE WHILE IN MOTION."

—National Safety Council

<p><b>NEW IDEA</b> FARM EQUIPMENT COMPANY DIVISION <i>AVCO</i> DISTRIBUTING CORPORATION COLDWATER, OHIO, U.S.A.</p> <p>LOT No. _____</p> <p>SERIAL No. _____</p> <p>Enter Lot and Serial number here for future reference.</p>
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As a member of the National Safety Council, we are privileged to use the Green Cross For Safety to designate not only our interest in farm safety, but to point out more clearly the safety precautions in this manual.

New Idea Farm Equipment Co.

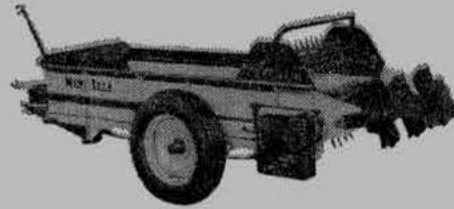


... "QUALITY BUILT FARM EQUIPMENT SINCE 1899"

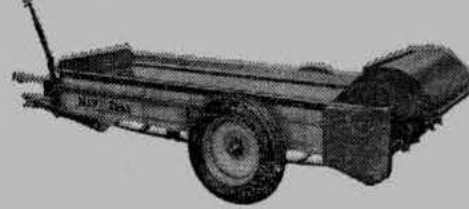
COLDWATER, OHIO 45828, U.S.A.



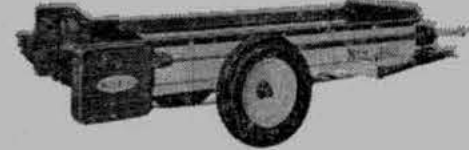
70 bu., 75 bu. and 95 bu.  
Ground Drive Spreaders



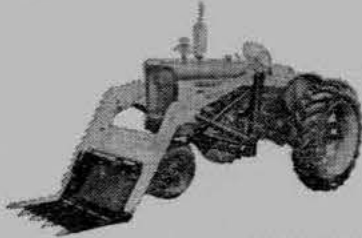
180 bu., 125 bu. and 145 bu.  
PTO Spreaders



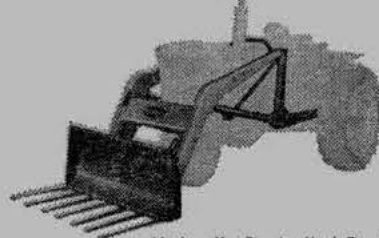
130 bu. and 160 bu.  
PTO Flail Spreaders



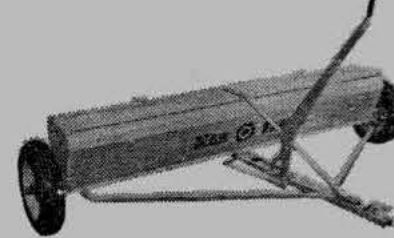
125 bu. and 155 bu. Single Beater  
PTO Spreaders



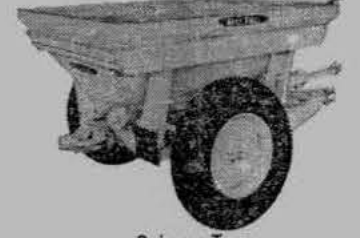
Mechanical Latch Bucket  
Hydraulic Loaders for  
Row Crop and Utility Tractors



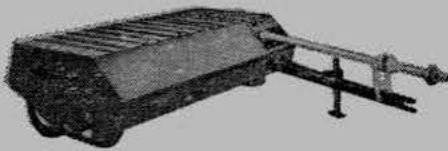
Hydraulic Controlled Bucket  
Hydraulic Loaders for  
Row Crop and Utility Tractors



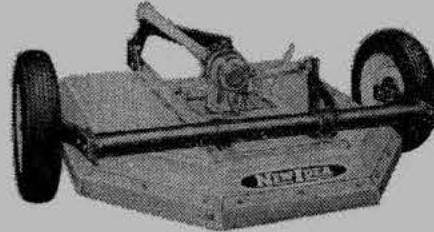
8, 10 and 12-foot  
Fertilizer Spreaders



Spinner Type  
Fertilizer Spreaders,  
2-Ton and 4-Ton



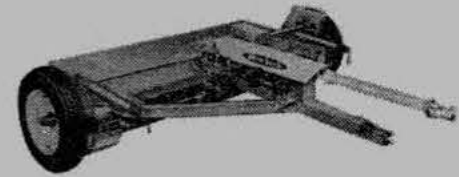
Flail Mower-Conditioner



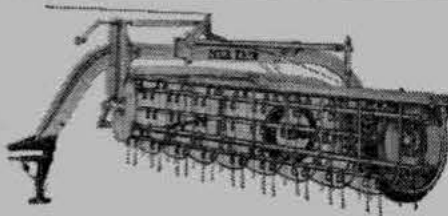
Rotary Cutters  
Trailing and 3-Point Hitch



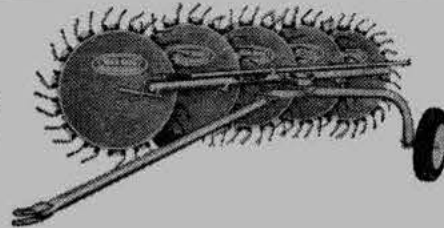
7-ft. Full Trail Mowers  
for use with Hay Conditioners



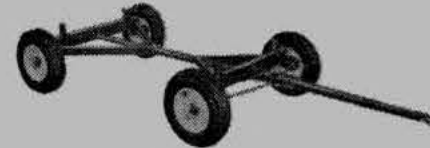
Hay Conditioners



8-ft. Pull Type Parallel Bar Rakes  
Belt-Ground Drive



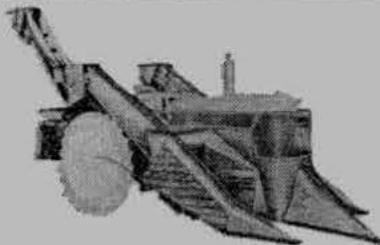
Speed Wheel Rake  
5, 6 or 7 Raking Wheels



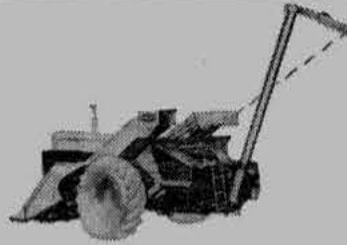
Utility and Heavy Duty  
Farm Wagons



1-Row Pull Type Corn Picker &  
1-Row Pull Type Corn Snapper



2-Row Mounted Corn Pickers  
With 8- or 12-roll Husking Units,  
or Snapper Elevator Unit



2-Row Mounted Corn Pickers  
with Mounted Sheller or  
Mounted Ear Corn Grinder



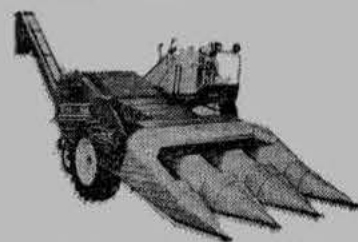
2-Row Pull Pickers  
for Narrow or Standard Rows  
and 8- or 12-roll Husking Units



2-Row Pull Pickers  
for Narrow or Standard Rows  
with Sheller and Ear Corn Grinder



Uni-System Power Units  
292 Cu. In. Engine or  
401 Cu. In. Engine



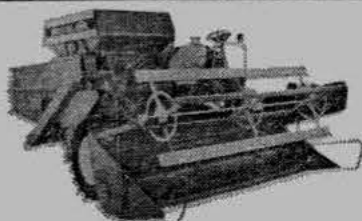
Uni-System Corn Picker with  
2 or 3-Row Stripper Plate  
Cornheads, or 2-Row Conventional  
Cornhead



Uni-System Combine with 2 or 3-Row  
Stripper Plate Cornheads, or 2-Row  
Conventional Cornhead



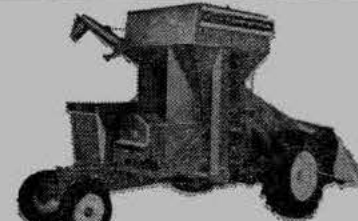
26, 31, 36, 41, 46  
and 51-foot Elevators



Uni-System Combine with  
11' or 13' Grain Platform



Uni-System Forage Harvester  
with Row Crop or Windrow Pickup



Uni-System Corn Sheller with  
Conventional Cornhead

