Setting Up Instructions

INTERNATIONAL

430 and 440
(All Twine and Lok Twist)

Balers

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To The Dealer

Use the instructions found herein for setting up and adjustment before delivery to the customer.

Give particular attention to any Blue Ribbon Service Bulletins which may contain recent information affecting performance of the machine.

Stress to personnel who set up, adjust, and otherwise prepare the machine for the customer the importance of following the instructions for Setting Up. Follow the manual! Considerable effort is made to present this information in an orderly and helpful manner. Avoid the mistakes so often made because of "guessing" how the machine is assembled or operated.

Bolts must be used in the holes in which they are found, or in the parts to which they are attached, unless otherwise shown.

Type 5 bolts must have this marking, to be the correct bolts.

Be sure the customer receives the Operator's Manual supplied with the machine.

Using the customer's purchase order or the service department job ticket, make a list of the optional equipment to be installed. Do this before you start setting up the baler so that you can install the equipment at the proper time in the setting up procedure.

Lubricate all bearings and moving parts as you proceed, and see that they work freely. Before operating the machine, lubricate it completely.

Whenever the terms "left" and "right" are used, it should be understood to mean from a position behind and facing the machine.

The contents of these instructions are for Setting Up Balers having serial numbers as indicated below:

430 All Twine Baler Serial No. U005756 and up
430 Lok Twist Baler Serial No. U001195 and up
440 All Twine Baler Serial No. U002160 and up
440 Lok Twist Baler Serial No. U001304 and up
Illust. 3
Right rear view of the 430 All Twine Baler.

1. Pickup height control
2. Twine chest
3. Needles
4. Bale chamber
5. Knitter
6. Packer fingers

Illust. 3A
Right front view of the 440 Lok Twist Baler.

1. Pickup
2. Feed
3. Wire twister
4. Packer fingers
5. Plunger
6. Power take-off drive
SETTING UP

STEP 1. NEEDLE GUARD

1. Two carriage bolts, 3/8 x 1-inch, lock washers, and nuts.

2. Two hex. head bolts, 7/16 x 1-inch, two flat washers, 15/32 x 1-inch x 16 ga., lock washers, and nuts.

Illustr. 4
Installing the needle guard.
STEP 2. WHEELS

1. After the baler has been rolled over remove the transport axle from the baler and remove the two wheels with spindles from the transport axle.

2. Install left wheel with spindle:
   430 BALER - two hex. head cap screws, 1/2 x 2-3/4-inches, lock washers, and nuts.
   440 BALER - two hex. head cap screws, 1/2 x 3-1/4-inches, lock washers, and nuts.

   Illust. 5
   Left wheel installation.

3. Install right wheel - one hex head cap screw, lock washer and nut

   Illust. 5A
   Right wheel installation.
STEP 3. TWINE TENSION

4. Install twine tension to left partition, using two carriage bolts, 1/4 x 3-inch plates, springs, spring cup washers, four flat washers, 9/32 x 3/4-inch x 11 ga., and two wing nuts, 1/4-inch.

Illustr. 6
Twine tension.

STEP 4. BALE COUNTER

5. Bale counter mount to baler, using two round head slotted machine screws, 1/4 x 5/8-inch, lock washers, and nuts. Bale counter to mount using hardware provided one cotter pin, 1/8 x 2-inches, and attach spring as shown.

Illustr. 6A
Baler counter.
SETTING UP

STEP 5. POWER TAKE-OFF DRIVES

Flywheel and Clutch

1 Remove cotter pin, nut and washer from main drive shaft; remove overrunning clutch assembly from rear power take-off shaft (retain hardware for later use); then place flywheel and overrunning clutch assembly in place securing with the hardware removed.

Note: Torque flywheel nut 270 to 300 foot-pounds

2 Bolt flywheel to hub using one hex head cap screw, 5/16 x 2-inch, lock washer, and nut.

Illustr. 7
Flywheel and overrunning clutch assembly.

3 Three hex head bolts, 3/8 x 1-inch and lock washers.

Note: The overrunning clutch dogs must be recessed or in their proper position before securing the assembly.

4 Assemble, using hex head bolt, 1/2 x 4-1/2-inches, bushing, two flat washers 17/32 x 1 x 16 ga., (1 wash side of latch) lock washer, and nut. Attach spring to hitch and latch, using a cotter pin, 1/4 x 1-inch in hitch and a cotter pin, 3/16 x 1-inch in latch. Tie rope to hitch latch.

Illustr. 7A
Friction drive assembly.
(430 Baler shown - 440 Baler similar.)
SETTING UP

STEP 5. POWER TAKE-OFF DRIVES—Continued

Two-Joint Drive Shaft—430 Baler Only

1. Install using hardware previously removed

2. Hitch pin, 3/4 x 3-1/2-inches and quick-attachable cotter pin, 1/4-inch

3. Quick-attachable cotter pin, 3/16-inch

Illustr. 8
Two-joint drive shaft - 430 Baler.
SETTING UP

STEP 5. POWER TAKE-OFF DRIVES—Continued
Two-Joint Drive Shaft—430 Baler Only

1. Remove upper and lower clevis hitch straps with hardware

2. Two hex. head cap screws 5/8 x 1-3/4-inches, flat washers 21/32 x 2-inches x 11 Ga, (on top), flat washers 21/32 x 1-1/4-inches x 11 Ga, (on bottom), lock washers, and nuts

3. Install using hardware previously removed

4. One hex. head cap screw, 1/2 x 5-1/4-inches, two bushings, two flat washers 17/32 x 1-1/4-inch x 11 Ga, and lock nut

5. One flat washer 21/32 x 1-1/4-inch x 11 Ga, and hardware previously removed

6. Disassemble shield from bearing. Assemble splined end through the pedestal bearing. Assemble front drive shaft, securing it with set screw, 1/2-inch, and jam nut. Reinstall shield to bearing, using hardware previously removed

7. If additional tractor offset is desired, the hitch support plate can be mounted using the alternate holes provided

Illustr. 9
Three-joint drive shaft - 430 Baler.
SETTING UP

STEP 5. POWER TAKE-OFF DRIVES—Continued

Three-Joint Drive Shaft—440 Baler Only

1. Install using hardware previously removed

2. One hex. head cap screw, 1/2 x 5-1/4-inches, two bushings, two flat washers 17/32 x 1-1/4-inch x 11 Ga, and lock nut

3. Attach using existing hardware and one flat washer 21/32 x 1-1/4-inch x 11 Ga.

4. Disassemble shield from bearing. Assemble splined end through the pedestal bearing. Assemble front drive shaft, securing it with set screw, 1/2-inch, and jam nut. Reinstall shield to bearing, using hardware previously removed

Illustr. 10
Three-joint drive shaft - 440 Baler.

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STEP 5. POWER TAKE-OFF DRIVE LINES—Continued
Flywheel and Knuckle Shield for Power Take-Off Balers

1. Remove three hex. head bolts, 3/8 x 1-inch, and discard. Install shield using three hex. head bolts, 3/8 x 1-3/4-inch, spacers, and lock washers.

Illustr. 11
Flywheel and Knuckle shield for power take-off balers.
SETTING UP

STEP 6. WISCONSIN ENGINE DRIVE
VH4D Engine

1. Four hex.-head bolts, 3/8 x 3/4 inch, lock washers, and nuts.

2. Two type 5 bolts 7/16 x 2-inches, flat washers 15/32 x 7/8-inch x 7 ga., one flat washer, 15/32 x 1-inch x 16 ga. (on right side), lock washers and lock nuts (one used left and one used right side).

3. Two type 5 bolts 7/16 x 2-inches, spacers 17/32 x 1-1/2-inch square x 6 ga., one flat washer, 15/32 x 1-inch x 16 ga. (on right side), lock washers and lock nuts (one used left and one used right side).

4. Four hex. head bolts, 1/2 x 1-7/8-inch, and lock washers, (two used left and two used right side).

5. Install flywheel on main drive shaft. Torque slotted nut 270 - 300 foot pounds.

6. One hex. head cap screw, 5/8 x 2-inches, and lock washer.

7. Two hex. head bolts, 1/2 x 1-7/8-inch, and lock washers. Use flat washers, 19/32 x 1-5/8-inch x 22 ga., for spacers between engine base and adapter as needed to align the drive belt with center of drive pulley.

8. Two hex. head bolts, 1/2 x 2-1/2-inch, lock washers and nuts.

Illust. 12
Bale chamber reinforcement angle.

Illust. 12A
Engine and engine attaching parts.
SETTLING UP

STEP 6. WISCONSIN ENGINE DRIVE—Continued
VH4D Engine—Continued

10 One square parallel key, 3/8 x 3-1/4 inch, (secure key with two set screws in pulley)

12 Three hex. head cap screws, 3/8 x 7/8-inch, lock washers and flat washers, 13/32 x 1-1/2 inch x 16 ga.

9 One 1/8 x 1-1/2 inch cotter pin, three flat washers, 29/32 x 1-3/8-inch x 10 ga. (between engine support and idler bracket), two flat washers, 29/32 x 1-3/8-inch x 16 ga. (between engine support and cotter pin)

11 Place drive belt in position as shown

13 Remove oil drain plug and install 3/8 x 1-1/2 inch nipple and cap

Illust. 13
Engine and engine attaching parts.

15 Two carriage bolts 3/8 x 1-inch, flat washers, 13/32 x 13/16-inch x 16 ga., lock washers and nuts

14 Use existing hardware

Illust. 13A
Fuel tank support and straps.

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SETTING UP

STEP 6. WISCONSIN ENGINE DRIVE—Continued

VH4D Engine—Continued

16 Secure fuel tank as shown using two 5/16-inch hex. nuts and lock washers

17 Attach fuel line to tank and install fuel line clip

Illustr. 14
Fuel tank and line.

22 Connect battery to switch cable and add clip on cables

21 One hex. head bolt, 3/8 x 3/4-inch, lock washer and nut

20 Two battery box bolts, (short bolt used next to engine base)

19 Four carriage bolts, 5/16 x 3/4-inch, lock washers and nuts

18 Three hex. head bolts, 3/8 x 1-inch, two flat washers, 13/32 x 3/4-inch x 16 ga. lock washers and nuts

Illustr. 14A
Battery, battery support and battery cable.

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SETTING UP

STEP 6. WISCONSIN ENGINE DRIVE—Continued

VH4D Engine—Continued

PLUNGER CRANK SHIELD (Engine Drive Balers)

ILLUST. 15
Plunger crank shield on engine driven baler.

STEP 7. FLYWHEEL AND BELT SHIELD (Engine Driven Balers)

ILLUST. 15A
Flywheel and belt shield for engine driven baler.
SETTING UP

STEP 8. INSTALLING AUGER DRIVE AND AUGER DRIVE SHIELD (440 Balers)

2 Reassemble auger drive pulley to hub with belt in position as shown.

3 One carriage bolt, 5/8 x 2-1/2-inches, spacer 1/2-inch long, flat washer 21/32 x 1-1/4-inch x 11 ga. (between spacer and bracket) lock washer and nut (spacer used between bracket and idler).

1 Disassemble auger drive pulley and install hub on auger drive shaft using flat washers, 29/32 x 1-3/4-inch 16 ga. required to align the roll pin hole of hub with hole in shaft. Install woodruff key 1/4 x 7/8-inch, and roll pin, 5/16 x 1-3/8-inch, (secure roll pin with wire).

Note: Auger drive pulley bolts must be in hub before installing hub on auger drive shaft.

Illust. 16
Installing auger drive pulley and drive belt.
SETTING UP

STEP 8. INSTALLING AUGER DRIVE AND AUGER DRIVE SHIELD (440 Balers)—Continued

5 Four hex. head bolts, 5/16 x 3/4-inch, and lock washers.

6 Tighten bolts left loose in reference 5.

4 Loosen bolts and position shield as shown.

Illustr. 17
Installing auger drive shield.
SETTING UP

STEP 9. PICKUP GAUGE WHEEL (440 Baler)
(Optional for 430 Baler)

1 Two hex. head bolts, 7/16 x 1-inch, one flat washer, 15/32 x 1-inch x 16 ga., and two lock washers

Illustr. 18
Pickup gauge wheel.

STEP 10. PLUNGER CRANK SHIELD (440 Baler)
(Optional for 430 Baler)

1 Two hex. head bolts, 5/16 x 3/4-inch, flat washers, 11/32 x 7/8-inch x 16 Ga, lock washers, and nuts

Illustr. 18A
Plunger crank shield.

2 Four slotted pan head screws, 10-24 x 1/2-inch, flat washers, 7/32 x 9/16-inch x 16 Ga, lock, washers, and nuts
SETTING UP

STEP 11. MANUAL BALE CHAMBER TENSION DEVICE (UPPER COMPRESSION ONLY) AND BALE CHAMBER EXTENSION

430 Baler Only

1. Lok Twist Balers: One carriage bolt, 3/8 x 1-1/2-inch, lock washer and nut.
   All Twine Balers: One carriage bolt, 3/8 x 1-1/4-inch, lock washer and nut.

2. Four carriage bolts, 3/8 x 1-inch, lock washers and nuts.

3. Assemble adjusting screws and spring assemblies as shown.

4. If hay retainer wedges are not required, two carriage bolts, 3/8 x 3/4-inch, lock washers and nuts.

5. Two carriage bolts, 7/16 x 3/4-inch, flat washers, 15/32 x 1-inch x 16 gauge, and lock nuts.

6. Two carriage bolts (type 5), 5/16 x 1-1/4-inch, flat washers, 11/32 x 1-1/2-inch x 11 gauge, flat washers, 11/32 x 3/4-inch x 16 gauge, and 5/16-inch wing nuts.

7. Two carriage bolts, 7/16 x 1-1/4-inch, flat washers, 15/32 x 1-1/4-inch x 16 gauge, lock washers and nuts.

Illustr. 19
Upper tension channel (upper compression only)
and bale chamber extension.
SETTING UP

STEP 11. MANUAL BALE CHAMBER TENSION DEVICE (UPPER COMPRESSION ONLY) AND BALE CHAMBER EXTENSION—Continued

430 Baler Only

Illustr. 20
Lower tension channel
(Upper compression only)

8 Two carriage bolts, 3/8 x 3/4-inch lock washers, and nuts on front end of tension channel (not shown)

9 Two carriage bolts, 3/8 x 1-inch, lock washers, and nuts

10 Two hex-head bolts, 1/2 x 1-1/4-inch lock washer, and nuts
SETTING UP
STEP 11. MANUAL BALE CHAMBER TENSION DEVICE (UPPER COMPRESSION ONLY) AND BALE CHAMBER EXTENSION—Continued
430 Baler Only

1. LOK TWIST BALERS: One carriage bolt, 3/8 x 1-1/2-inch, lock washer, and nut
2. Two carriage bolts, 3/8 x 3/4-inch, lock washers and nuts on front end of lower tension channel (not shown)
3. Assemble adjusting screws and spring assemblies as shown
4. Install snap ring into grooves in crank. Push knobs on until snap ring locks in place
5. Two carriage bolts, 7/16 x 3/4-inch flat washers 15/32 x 1-1/4-inch x 16 ga., and hex lock nut
6. Two carriage bolts (type 5), 5/16 x 1-1/4-inch, flat washers, 11/32 x 1-1/2-inch x 11 ga., flat washers 11/32 x 3/4-inch x 16 ga., and 5/16-inch wing nuts
7. Two carriage bolts, 7/16 x 1-1/4-inch, flat washers 15/32 x 1-inch x 16 ga., lock washers, and nuts

Illust. 21
Manual bale chamber tension device and bale chamber extension.
SETTING UP

STEP 12. BALE TURNER

2 One carriage bolt, 7/16 x 1-inch, flat washer, 15/32 x 3/4-inch x 11 ga., flat washer, 15/32 x 1-1/4-inch x 16 ga., and lock nut

3 One carriage bolt 7/16 x 1-1/4-inch, two flat washers, 15/32 x 1-inch x 16 ga., one lock washer and one nut

1 One carriage bolt, 7/16 x 1-1/2-inch, pipe spacer, flat washer, 15/32 x 1-1/4-inch x 16 ga., and lock nut.

4 One carriage bolt 5/16 x 1-1/4-inch, hex. nut, flat washer, 11/32 x 3/4-inch x 16 ga., flat washer, 11/32 x 1-1/2-inch x 11 ga., and wing nut

Illustr. 22
Bole turner.
SETTING UP

STEP 13. HYDRAULIC BALE TENSION

1. Three carriage bolts, 1/4 x 3/4-inch, lock washers, and nuts.
2. Adjust to 1-1/2-inch from side of plate to inside of sprocket as shown and using one 1/2-inch hex. nut as jam nut to secure shaft.
4. Attach sprocket using slotted spring pin, 3/16 x 2-inch. (Not seen)

Illustration 23
Hydraulic pump drive shaft and sprocket (Needle drive shield removed).
SETTING UP

STEP 13. HYDRAULIC BALE TENSION—Continued

5 Three carriage bolts, 3/8 x 3/4-inch, lock washers and nuts

6 Eight carriage bolts, 3/8 x 3/4-inch, lock washers, and nuts

Illustr. 24
Lower tension channel.
SETTING UP

STEP 13. HYDRAULIC BALE TENSION—Continued

13 LOK TWIST BALERS: One carriage bolt, 3/8 x 1-1/2-inch, lock washer, and nut

ALL TWINE BALERS: One carriage bolt, 3/8 x 1-1/4-inch, lock washer, and nut

12 Use existing bolt and two carriage bolts, 5/16 x 3/4-inch, lock washers and nuts

15 Two street elbows, 1/4-inch 90 degrees, one pipe nipple, 1/4 x 2-1/2-inch, one pipe tee, 1/4-inch, one pressure snubber, 1/4-inch, and one hydraulic gage

16 One tie bolt, three flat washers, 21/32 x 1-3/4-inch x 11 ga., and two hex nuts used left and right side

11 Install drive chain (all links) using one offset link and one connecting link. Adjust chain and tighten bolts left loose in step 8

10 Install hydraulic pump driven sprocket to pump shaft and secure with hex-socket head screw, 10-24 x 1/2-inch

9 Pump to bracket using four hex head cap screws, 5/16 x 1-inch, lock washers and nuts

7 Use bolts for left and right hay retainer wedges to attach left and right tie bolt guides

14 One reducing bushing, 3/8 x 1/4-inch, and one street elbow, 1/4-inch 90 degrees

8 Use bolts for left center hay retainer wedge to attach pump bracket. NOTE: Leave bolts assembled loosely

Illustr. 25
Hydraulic bale tension.
SETTLING UP

STEP 13. HYDRAULIC BALE TENSION—Continued

NOTE: See Illusts. 24 and 25 for mounting instructions except as noted below.

1 Two carriage bolts, 3/8 x 1-inch, flat washers, 13/32 x 3/4-inch, x 16 ga., lock washers, and nuts.

2 Install drive chain (247 links). Consists of: 211 link chain, 31 link chain, 5 link chain, 2 offset links, and 3 connecting links.

Illust. 26
Hydraulic bale tension mounted with automatic lubrication.

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SETTING UP
STEP 14. AUTOMATIC LUBRICATION

1. Use bolts for left center hay retainer wedge to attach pump bracket and attach lubrication feed line. NOTE: If hay retainer wedges are not required, use two carriage bolts, 3/8 x 3/4-inch, lock washers, and nuts.

2. Install drive chain (216 links). Consists of: 211 link chain, 5 link chain, 1 offset link, and 2 connecting links.

3. Use existing bolt and two carriage bolts, 5/16 x 3/4-inch, lock washers, and nuts.

Illust. 27
Automatic lubrication.

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SETTING UP

STEP 15. FOUR-COIL WIRE CONTAINER

2 Two hex. head bolts, 1/2 x 1-1/4-inch, flat washers, 17/32 x 1-inch x 16 ga., lock washers, and nuts

1 One hex. head bolt, 1/2 x 1-1/4-inch, lock washer, and nut

3 Two carriage bolts, 1/2 x 1-1/4-inch, lock washers, and nuts

4 When using wire coils removed from cartons, coil bottom plates must be obtained from your IH dealer. Install, using sixteen carriage bolts, 3/8 x 3/4-inch, lock washers and nuts

Illustr. 28
Four-coil wire container.
SETTING UP

STEP 16. TWO-COIL WIRE CONTAINER

1. One hex head bolt, 1/2 x 1-1/4-inch, lock washer, and nut

2. Two hex head bolts, 1/2 x 1-1/4-inch, flat washers, 17/32 x 1-inch x 16 ga., lock washers and nuts.

3. Two carriage bolts, 1/2 x 1-1/4-inch, lock washers, and nuts

4. When using wire coils removed from cartons, coil bottom plates must be obtained from your IH dealer. Install, using eight carriage bolts, 3/8 x 3/4-inch, lock washers, and nuts.

Illustr. 29
Two-coil wire container.
SETTING UP

STEP 17. ENGINE SHUT-OFF

2. Four slotted pan head screws, 10-24 x 1/2-inch, lock washers, and nuts

3. Attach coil and distributor wires to shut-off switch

1. Two hex head bolts, 5/16 x 1-inch, lock washers, and nuts

Illust. 30
Engine shut-off.
SETTING UP

STEP 17. ENGINE SHUT-OFF—Continued

4. Attach two clips using existing hardware.

End of outside coil wire from right wire container.

End of outside coil wire from left wire container.

Illust. 31
Engine shut-off.
SETTING UP

STEP 17. ENGINE SHUT-OFF—Continued

Illustr. 32
Engine shut-off.
(Flywheel shield is optional)

Illustr. 32A
Installing two lead wires from engine shut-off to distributor and coil on tractor.

5 Install three clips.

6 Remove primary wire (distributor to coil) and attach distributor and coil lead wires as shown.
SETTING UP

STEP 18. BALE CHUTE AND TRAILER HITCH

1. Two carriage bolts, 3/8 x 1-1/4-inch, bale chute spacers, flat washers, 13/32 x 1-inch x 11 ga., lock washers, and lock nuts.

2. Connect chains using existing hardware (bale chute chains must be next to bale chamber).

3. Two carriage bolts, 5/16 x 1-1/4-inch, hex. nuts, flat washers, 11/32 x 3/4-inch x 16 ga., lock washers, nuts and wing nuts.

4. One hex. head cap screw, 1/2 x 1-1/4-inch, one hex. head cap screw, 1/2 x 1-1/4-inch, two lock washers, and lock nuts.

5. One hex. head cap screw, 5/8 x 3-3/4-inch, lock washer and nut.

6. Two carriage bolts, 3/8 x 1-inch, lock washers, and nuts.

7. Two hex. head cap screws, 3/8 x 1-inch, lock washers, and nuts.

8. One trailer hitch adjusting pin and cotter pin, 3/16 x 1-inch.

Illustr. 33
Bale chute and trailer hitch.

Note: Bale chute can only be used with bale chamber extension installed. See Illust. 21.
SETTING UP

STEP 19. AUXILIARY NEEDLE GUARD

1. Four carriage bolts, 3/8 x 3/4-inch, lock washers, and nuts

2. Two hex. head bolts, 7/16 x 1-inch, flat washers, 15/32 x 1-inch x 16 Ga, lock washers, and nuts

Illustr. 34
Auxiliary needle guard.

STEP 20. KNOTTER COVER

Two hex. head bolts, 1/4 x 5/8-inch, flat washers, 9/32 x 5/8 inch x 16 ga., spacer bushings, and lock washers.

Illustr. 34A
Knotter cover (440 Baler - optional 430 Baler).

34
STEP 21. LIFTING JACK

One pivot rod, spring, three flat washers, 17/32 x 1-inch x 16 ga., and two cotter pins, 1/8 x 1-inch.

Illustr. 35
Lifting jack.
(Flywheel shield is optional)

STEP 22. DUAL WHEELS

Install dual wheel as shown, using spacer between wheels and four hex. head studs, 1/2 x 9-3/4-inches

Illustr. 35A
Right dual wheel.

Illustr. 35B
Left dual wheel.

Install dual wheel with opening to inner wheel valve, using six wheel bolts as shown
STEP 23. SAFETY LIGHT

1. Place safety light into light socket.
2. Install four clips on safety light wire.
3. Connect to socket on tractor.

Illustr. 36
Safety light on 440 Baler (Flywheel shield is optional).

Illustr. 36A
Safety light shown with S.M.V. emblem in mounting bracket.
Acid gases can be prevented with your help.
Accidents can be prevented with your help

No accident-prevention program can be successful without the wholehearted co-operation of the person who is directly responsible for the operation of equipment.

To read accident reports from all over the country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the harvest field or in the industrial plant, can be safer than the man who is at the controls. If accidents are to be prevented—and they can be prevented—it will be done by the operators who accept a full measure of their responsibility.

It is true that the designer, the manufacturer, the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that "the best kind of a safety device is a careful operator." We ask you to be that kind of an operator.