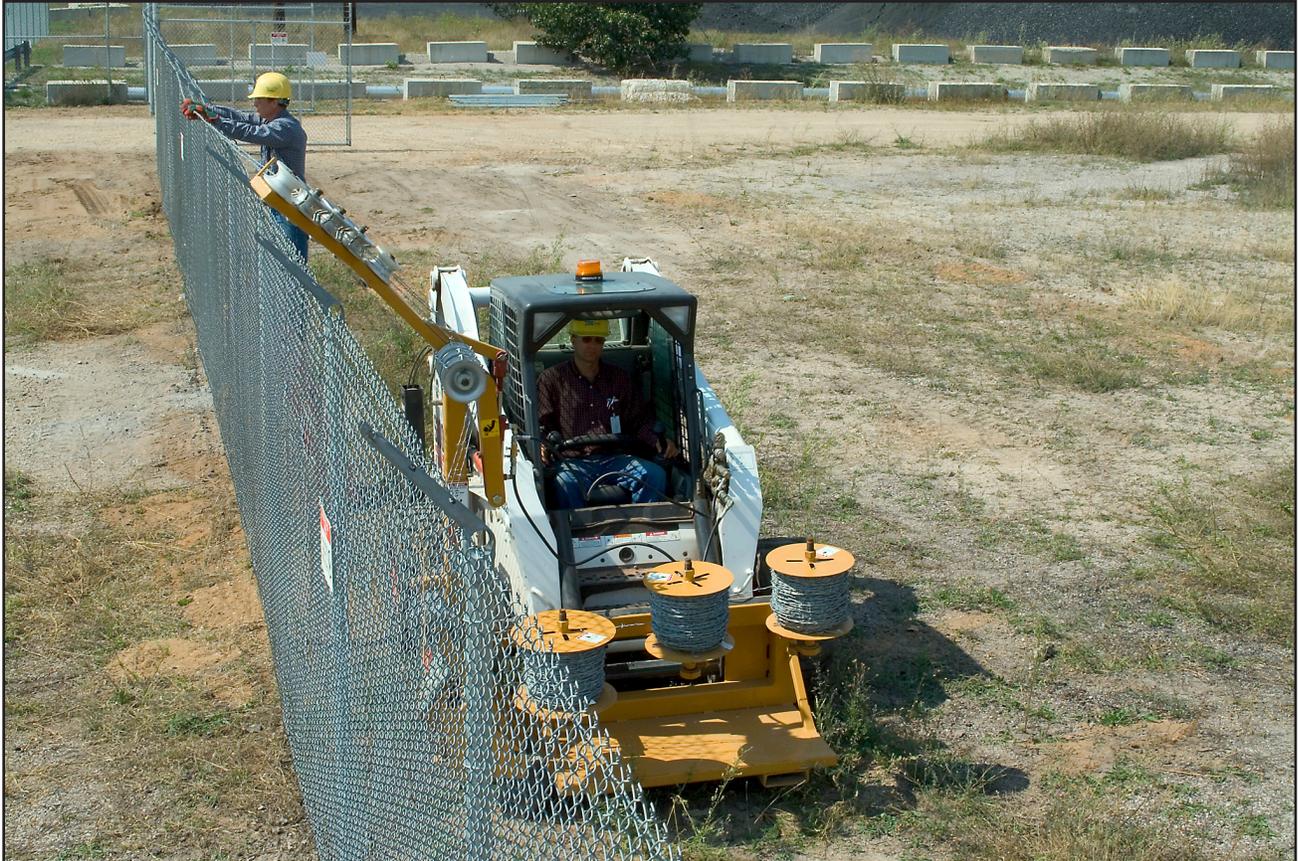


# BARBED WIRE DISPENSER



## OPERATOR'S MANUAL

OWNER'S NAME \_\_\_\_\_

MODEL \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_\_

\_\_\_\_\_



## LIMITED WARRANTY

L&C Enterprises-USA, Inc. warrants each new Barbed Wire Dispenser unit for a period of one year to the original purchaser. This warranty covers workmanship and/or material used in the manufacture of the Rapid Roller. The cost of parts (for one year) and labor (for one year) at an approved service center or the manufacturer's center will be covered. The one year period begins on date of delivery to purchaser.

At the option of the manufacturer any defective parts will be replaced, repaired, or exchanged with reworked parts upon examination at the factory to determine if the defect has occurred under normal use and service. The transportation charges on damages and losses incurred in connection with transportation of parts for inspection, for replacement, or repair under this warranty shall be the responsibility of the purchaser.

L&C Enterprises-USA, Inc. shall in no event assume any liability for damages and/or expenses due to improper operation of the Barbed Wire Dispenser unit.

This warranty does not cover any loss in time or production or any expense caused by the unit's failure to function because of defective parts or workmanship.

No warranty is given to the amount of production that can be obtained from the Barbed Wire Dispenser unit or the design of the unit to do a given job.

L&C Enterprises-USA, Inc. reserves the right to make changes to all design specifications and components on future units without notice and without obligation to make changes to units previously sold.

This warranty is void if any modifications are made to the unit that will affect its operation, its capacity, and/or mounting specifications.

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

# GENERAL SAFETY

**⚠ WARNING** Do not operate machine without reading and understanding Operator's Manual.



## SAFETY ALERT SYMBOL

Read all safety messages.

Follow safety messages to avoid personal injury and/or property damage.

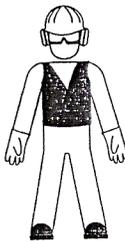


## OPERATOR PREPARATION

The operator must be fully trained, qualified, and authorized to operate this machine.

Before operating this machine, the operator must know the location and purpose of the following:

- Controls
- Indicator Lights
- Instruments
- Safety and instruction decals (see Safety Decals in this manual Page 7)



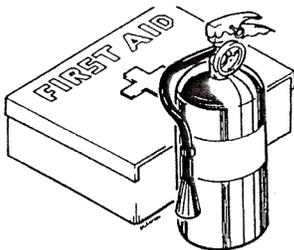
## PROTECTIVE CLOTHING

Wear OSHA-approved protective clothing when working on or near this machine, such as the following:

- Ear protection
- Gloves
- Goggles/Safety Glasses
- Hard hat
- Long Sleeve Shirt
- Steel-toed boots

Wear snug protective clothing that is belted where Required.

Remove jewelry before working on or near this machine.



## FIRE PREVENTION/FIRST AID

Install a first-aid kit in the operator's cab.

Properly maintain first-aid kit and fire extinguisher. Follow instructions provided with them.

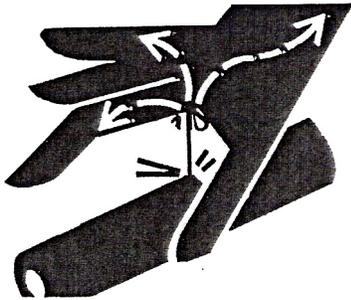


### UNAUTHORIZED WELDING

**⚠ WARNING** UNAUTHORIZED WELDING CAN CAUSE STRUCTURAL FAILURE AND/OR SEVERE PERSONAL INJURY OR DEATH.

DO NOT weld on any structural member. Any unauthorized welding or repair will void the warranty.

Welding should not be performed on this unit when material temperature is below 50F.



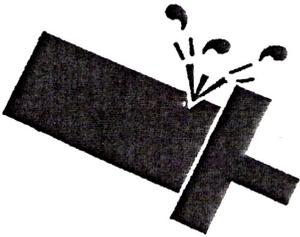
### FLUIDS UNDER PRESSURE

**⚠ WARNING** FLUIDS ESCAPING UNDER PRESSURE CAN PENETRATE SKIN AND CAUSE SEVERE PERSONAL INJURY OR DEATH.

DO NOT use your hands to search for leaks. Escaping fluids can penetrate skin and enter your bloodstream. Before disconnecting lines, relieve all pressure.

DO NOT apply pressure to a damaged line, hose, or fitting.

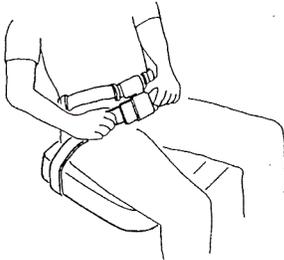
If ANY fluid is injected into your skin, seek medical attention immediately. A serious infection or reaction can result without proper medical treatment.



### PRESSURE SETTINGS

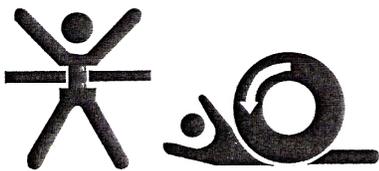
**⚠ WARNING** EXCESSIVE HYDRAULIC PRESSURE CAN CAUSE COMPONENT OR STRUCTURAL FAILURE, WHICH MAY RESULT IN SEVERE PERSONAL INJURY OR DEATH.

DO NOT exceed factory adjusted pressure settings.



**⚠ WARNING** A ROLLOVER OR SUDDEN STOP CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

Always wear seat belt, fastened snugly, when operating the machine to reduce the risk of personal injury resulting from a rollover or sudden stop.



### NO RIDERS ON MACHINE

**⚠ WARNING** MACHINE RIDERS CAN FALL FROM MACHINE OR BE INJURED BY MOVEMENT OF MACHINERY, CAUSING SEVERE PERSONAL INJURY OR DEATH.

DO NOT allow riders on machine that is operating or moving.



## ELECTRIC LINES

**⚠ DANGER** SERIOUS INJURY OR DEATH WILL RESULT FROM CONTACT WITH ELECTRIC LINES.

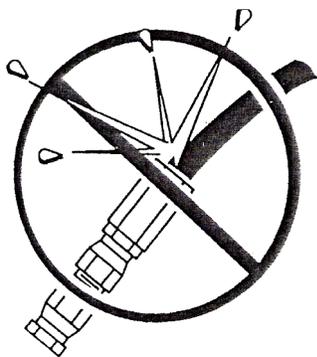
Never move any part of the machine or load closer to electric lines than 10 feet plus twice the line insulator length. A line insulator is what connects an electric line to an electric pole.

For example, if a line insulator is six in. long, you must stay at least 10 ft. plus twice the line insulator length ( $2 \times 6 = 12$  in. or 1 ft.) from the electric line, which means you must stay at least 11 feet from this electric line.

If the machine touches an electric line, stay in the machine. Carefully move machine or load away from the electric line, without pulling the line down.

DO NOT let anyone else touch the machine while it is touching the electric line. If you can not move the machine away from the electric line without pulling the line down, have someone contact the utility company to disconnect power from the line. If this is not possible, or if the machine begins to burn, jump away from the machine to the ground with both feet together, in one smooth jump. DO NOT touch the machine and the ground at the same time or else the electricity in the line will go through your body. Get away from the machine after you jump.

Notify the utility company immediately. DO NOT let anyone near the machine while it is touching the electric line.



## HOSES AND FITTINGS

**⚠ WARNING** MISMATCHED BRANDS OR TYPES OF HOSES AND FITTINGS CAN BLOW APART AND CAUSE SEVERE PERSONAL INJURY OR DEATH.

DO NOT interchange brands or type of hoses and fittings.

DO NOT install a fitting from one manufacturer on a hose from a different manufacturer.

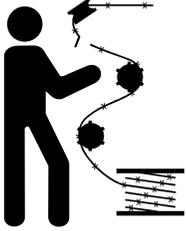
DO NOT install crimp fittings on hoses meant for reusable fittings.

# SAFETY DECALS

031405-3

**⚠ DANGER**  
**AVOID INJURY OR DEATH**

**STAY AWAY:  
 WIRE MAY SNAP**



**STAY 10 FT. (3M) OR  
 MORE AWAY UNLESS  
 OPERATING MACHINE**

**⚠ CAUTION!**  
**ONLY WELL INFORMED  
 TRAINED PERSONNEL  
 SHOULD OPERATE  
 THIS EQUIPMENT.  
 LACK OF  
 KNOWLEDGE CAN  
 LEAD TO ACCIDENTS!**

*ANY QUESTIONS CAN  
 BE ADDRESSED TO:*

L & C Enterprises USA, Inc.  
 1646 17.4 Rd.  
 Escanaba, Michigan 49829  
 (906) 786-1008

031405-3

031405-11

**⚠ CAUTION**

**For the Safety of  
 Yourself and Others**

**DO NOT  
 REMOVE OR  
 PAINT OVER  
 THE DECALS  
 ON THIS  
 MACHINE.**

**They were Installed  
 to Prevent Injuries**

**REPLACE WHEN DAMAGED**

040605-11

031405-1

**⚠ DANGER**



**BARB WIRE IS SHARP  
 WEAR PROTECTIVE  
 CLOTHING**

**When handling barb wire  
 use caution at all times.**

031405-1

031405-5



031405-5

# Barbed Wire Dispenser Manual

Do not use the Barbed Wire Dispenser unless you have read and understand this manual and have the necessary training and authorization to operate and maintain your machine properly.

Remember that you are the key to safety. Good safety practices protect you and the people around you. Make this manual a working part of your safety program.

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter to: L&C Enterprises-USA, Inc., 1646 17.4 Road, Escanaba, MI 49829

## SAFETY SYMBOLS



### SAFETY ALERT SYMBOL

Means: ATTENTION, BE ALERT, YOUR SAFETY IS INVOLVED.

This safety symbol is used for important safety messages. When you see this symbol, follow the safety message to avoid personal injury and/or property damage.

Understand signal words: DANGER, WARNING, and CAUTION are used with the SAFETY ALERT SYMBOL.



DANGER identifies the hazard or unsafe practice that will result in severe personal injury or death.



WARNING identifies the hazard or unsafe practice that could result in severe personal injury or death.



CAUTION identifies the hazard or unsafe practices that could result in personal injury or property damage.



NOTICE identifies important installation, operation, or maintenance information.

This operator's manual includes information available and current at the time of approval for printing. L&C Enterprises-USA reserves the right to improve its product without giving prior notice or incurring obligation.

**NOTICE** Tools needed to assemble the Barbed Wire Dispenser:

- Utility knife
- Tin snips or band cutter
- Two 9/16 inch wrenches
- Forklift
- Pliers

## ASSEMBLY

1. The Barbed Wire Dispenser is shipped wrapped in plastic wrap and sitting on a wood shipping pallet. (Fig. 1-A) Remove and discard the plastic shipping wrap and protective shipping material from the Barbed Wire Dispenser. You can cut the plastic wrap with a utility knife.



Figure 1-A

2. Cut the metal bands securing the unit to the pallet with a tin snips or band cutter. (Fig. 1-B) You may find one around the top of the unit and two at the base of the unit. Remove and discard the metal bands.



Figure 1-B

3. To install the dispensing arm, position a forklift next to the unit on the side where the dispensing arm is located. Lift the forks slightly above the unit, about two feet.



Figure 1-C

Manually lift the arm up and over (Fig. 1-D and 1-E) to rest on the forks on the forklift. (Fig. 1-E) The dispensing arm should end up laying on the forks.

**CAUTION** The dispensing arm is heavy. It may take two people to move the dispensing arm. You can use cardboard under the dispensing arm to prevent the forklift from scratching the arm.



Figure 1-D



Figure 1-E

4. Using the 9/16 inch wrenches, remove the four bolts from the plate at the top of the upper hydraulic arm and set aside. (Fig. 1-F)



Figure 1-F

5. Using the tin snips, cut the metal band around the hydraulic holder. (Fig. 1-G)

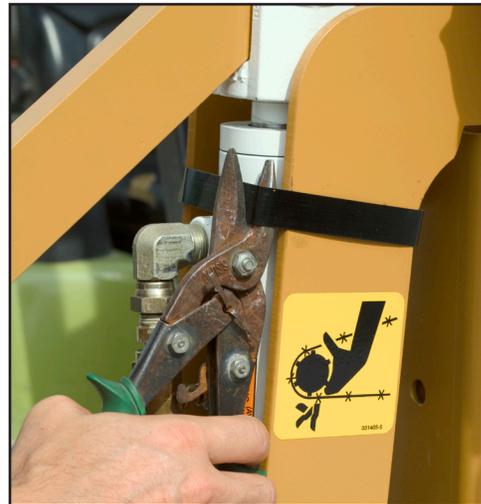


Figure 1-G

6. Lift the hydraulic arm with the plate up and over to the dispensing arm. (Fig. 1-H) The plate will probably not lay flat on the dispensing arm. Lift or lower the forklift to adjust the height of the dispensing arm until the plate lays flat on the arm. Make sure to line up the bolt holes on the plate and dispensing arm. Re-install the four bolts to connect the upper hydraulic arm and dispensing arm. (Fig. 1-I)



Figure 1-H



Figure 1-I

7. Slowly lower the forklift until the worker can hold up the dispensing arm. When the worker can hold the arm held up, lower the forklift and back away. (Fig. 1-J) The worker can then lower the dispensing arm until it stops.

**CAUTION** You need to proceed with caution. The arm is heavy. The hydraulic arm will not hold up if the hydraulic cylinder contains air. Do not let the arm fall. It may cause injury or damage the equipment.

8. Lift the hydraulic hoses attached to the hydraulic arm off of the unit and lay them off to the side. (Fig. 1-K)

## SETTING UP FOR BARBED WIRE

**NOTICE** If the Barbed Wire Dispenser did not come with the tension wire feature the three barbed wire holders will be shipped in place.

9. If your unit comes with the tension wire feature, go to the front of the unit and remove the barbed wire holder from underneath. (Fig. 2-A) Remove the tension wire guide from underneath the unit. (Fig. 2-B)

10. Go to the spring tension barbed wire guides and install the tension wire guide. Slide it into the short tension wire guide holder on the side of the dispensing arm and secure with the snapper pin. (Fig. 2-C)



Figure 1-J



Figure 1-K



Figure 2-A



Figure 2-B



Figure 2-C

11. Lift out the tension wire holder from the center post and set aside. (Fig. 2-D)  
For shipping, the tension wire holders are installed on their sides.



Figure 2-D

12. Another barbed wire holder should be accessible on the platform underneath. Remove the barbed wire holder and set aside. Remove the center tension wire guide and set aside with the tension wire holders. (Fig. 2-E)



Figure 2-E

13. Lift out the other tension wire holder from the outside post or the post furthest away from the dispensing arm and set aside. Remove any remaining protective cardboard. (Fig. 2-F)



Figure 2-F

14. Install the barbed wire holder with the longer stem into the center post on the front of the unit. Secure with a hitch pin.

Install the remaining barbed wire holder with the shorter stem into the outside post. Secure with a hitch pin. (Fig. 2-G)



Figure 2-G

15. The unit is now setup up to dispense barbed wire. (Fig. 2-H)

## PREPARE FOR USE

16. Lift the unit off the shipping pallet with the forklift. Lower the back leg on the dispensing arm and secure with the snap-pin. (Fig. 3-A) Lower the unit to the ground. The back leg is used for storage. During operation, the back leg must be raised to the up position.

17. Connect the Barbed Wire Dispenser to a skid-steer. Drive up to the universal mounting plate on the back or mounting side of the Barbed Wire Dispenser and lock the Barbed Wire Dispenser to the skid-steer according to your skid-steer's directions. Lift slightly off the ground and raise the back leg.

15. Attach the hydraulic hoses to the skid-steer. It is important to thoroughly clean the hydraulic couplers before connecting. (3-B) If dirt gets into the hydraulic system, equipment failure can result. If hydraulic oil or filters are past their scheduled change intervals it is recommended they be changed before using the Barbed Wire Dispenser.

**⚠ WARNING** Pressure may need to be released before hooking up the hydraulic hoses.

**NOTICE** Clean the hydraulic couplers with a rag before connecting.

16. Attach the hydraulic hoses to the skid-steer. (Fig. 3-C)

**NOTICE** Check hydraulic oil level. Equipment may not operate properly if oil is too low.



Figure 2-H



Figure 3-A



Figure 3-B



Figure 3-C

**NOTICE** Check to make sure there are no leaks in the hydraulic hose connections.

If the unit operates backwards from the skid-steer commands, switch the end fittings on the hoses.

**WARNING** Always lower the dispensing arm before disconnecting the hydraulic hoses. If the arm is not lowered it will fall when the fittings are disconnected and hydraulic oil will be released.

16. Excess hydraulic hose can be cable tied together to prevent tangling. (Fig. 3-D)

17. The connections to the hydraulic pump may also need to be adjusted. (Fig. 3-E) The thumb screws on the fittings at the hydraulic pump can slow or speed the movement of the dispensing arm.

18. Before you use the Barbed Wire Dispenser, make sure the unit is properly greased. Fittings are located on the barbed wire holders under the bottom plate. (Fig. 3-F) Fittings are also located on each of the nine barb wire guides. Spray grease on the barbed wire holder shafts to prevent rusting. (Fig. 3-G)

**NOTICE** Do not over grease the barbed wire holder fittings. (Fig. 3-F) Excess grease may get on the brake shoes and prevent them from working properly.



Figure 3-D

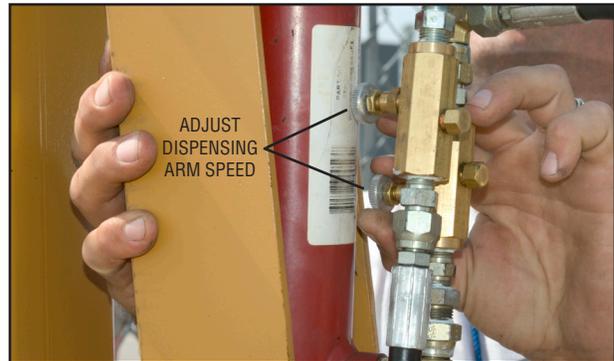


Figure 3-E



Figure 3-F



Figure 3-G

19. Make sure the tension springs are in good shape. (Fig. 3-H) To replace a tension spring, remove the clevis pin and washer from the bottom rod and slide the rod back past the damaged spring. Unhook the damaged spring at the top and remove. Hook the new spring to the top and slide the rod back through the bottom of the new spring and re-secure with the washer and clevis pin. (Fig. 3-I)



Figure 3-H

## OPERATION

20. If you find you need more height at the fence. Raise the dispensing arm and re-secure with the hitch pin. (Fig. 4-A) The dispensing arm should be able to go over the top of the barb arms.



Figure 3-I

21. Remove the top plates of the barbed wire holders and slide the rolls of barbed wire over the center posts. (Fig. 4-B) Make sure the wire framing matches up with the screws on the bottom plate for smooth turning. (Fig. 4-C) The rolls of barbed wire must contain the framing to operate properly. (Fig. 4-D)



Figure 4-A



Figure 4-B

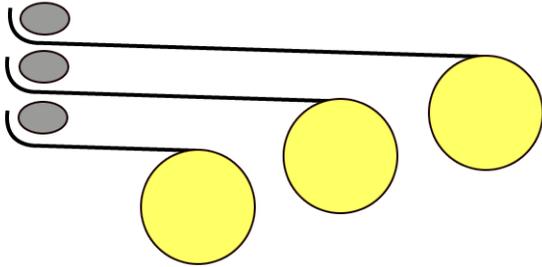


Figure 4-C



Figure 4-D

22. Cover the roll of barbed wire with the top plate and secure with the large nut. (Fig. 4-E) The wire should come out over the top of the barbed wire roll (Fig. 4-F) and run to the spring tension barbed wire guides.



The barbed wire from the outside roll should run to the inside guide, the center roll to the center guide and the inside roll to the outside guide.

23. Slide the wire under the spring tension barbed wire guide (Fig. 4-G) and run up to the mid guides. (Fig. 4-H)



Figure 4-E



Figure 4-F



24. Hook the wire around the backside of the mid guide and run up to the dispensing arm guides. (Fig. 4-I)

25. Hook around the outside of the dispensing arm guide and pull towards the termination post. (Fig. 4-J)

**NOTICE** You can use the step on the back of the unit to reach the upper guides.

**NOTICE** To make the wire pull easier, the worker at the barbed wire rolls can turn the roll towards the dispensing arm to release wire. (Fig. 4-K)

**NOTICE** If a long length of barbed wire needs to be pulled through, you can loosen the brake nut under the bottom plate on the barbed wire holder. (Fig. 4-L) Be sure to re-tighten when finished.

26. After the barbed wire is attached to the termination post, turn the roll to tighten the tension.

27. Drive the skid-steer forward along the fence line. (Fig. 4-M) The skid-steer driver should move no faster than the speed of the worker attaching the wire to the barb arms. Make sure the dispensing arm clears the barb arms. The skid-steer driver should also monitor the tension springs for snags in the barb wire rolls.



Figure 4-I



Figure 4-J



Figure 4-K



Figure 4-L

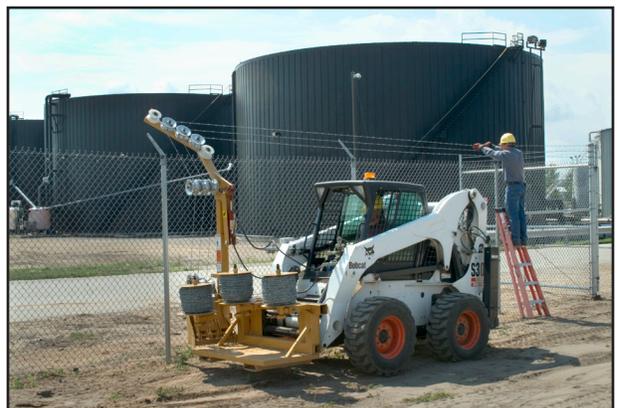


Figure 4-M

28. If a roll of barbed wire does not dispense properly, the tension springs may become overextended. (Fig. 4-N)

**⚠ DANGER** If the dispensing arm is overextended and the skid-steer is not stopped, the barbed wire could snap and cause injury or the tension springs could be damaged.

Stop the skid-steer and back up slightly to loosen tension. Turn the roll of snagged barbed wire to free the wire. The brake nut under the bottom plate on the barbed wire holder can be adjusted to loosen or tighten the tension of the roll. Turn the wing nut with the spring. Once free, continue to operate. You may need to adjust some barb arms that could have moved when the skid-steer was backed up.

**NOTICE** If the barbed wire holder free spins, tighten the set screw under the bottom plate. (Fig. 4-O) This will re-secure the brake nut. The set screw sets into a hole in the barbed wire holder shaft. (Fig. 4-P)

29. As the roll of barbed wire begins to run out, the wire may become more snagged or brake. Change the roll when you get to the last 200 feet or when the roll becomes a problem to dispense. The discarded wire can be used for other projects such as gates. Take a new roll and put it on the barbed wire holder. Extra rolls can be carried on the platform underneath the barbed wire holders. Cross the old and new wires so about eight inches sticks out on each end. Have another worker hold the crossed ends with a pliers. (Fig. 4-Q)

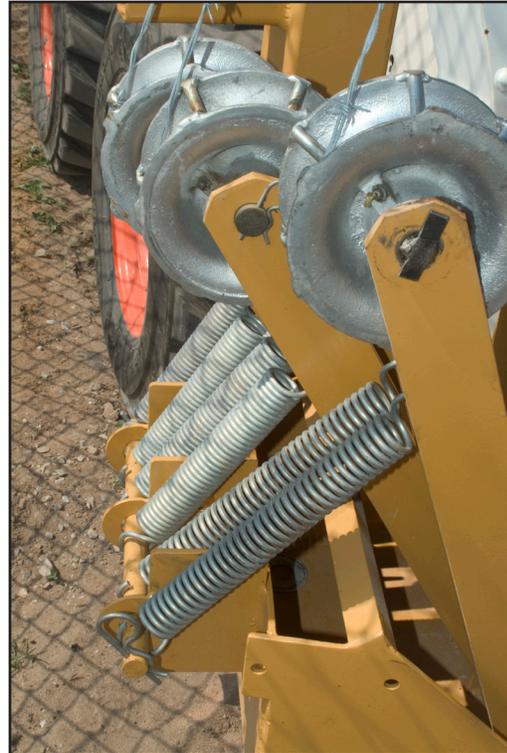


Figure 4-N



Figure 4-O

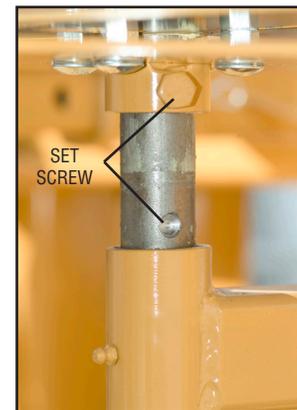


Figure 4-P



Figure 4-Q

Twist the ends tightly around the opposite wire about six to eight times on each end. Cut off the excess ends. (Fig. 4-R)

Operate the Barbed Wire Dispenser normally.

**⚠ WARNING** If the wires are not twisted tightly, the connection may come apart while dispensing. Any kinks in the wire from handling or from the manufacturer must be repaired or it may brake and cause injury.

30. When you get to a termination post, drive the skid-steer as far into the corner as possible allowing enough room for a ladder or move just past the intermediate or pull post if it is on a straight run. Allow for some slack in the wire by turning the barbed wire holders towards the dispensing arm. (Fig. 4-S)

Cut one of the wires with enough length to reach the termination post. (Fig. 4-T) If necessary, unthread the wire from the unit.

Thread the wire through the brace band at the termination post and tighten with a T-bar. (Fig. 4-U) Twist the wire around itself to tighten in place. Do the same with the other two wires.



Figure 4-R



Figure 4-S



Figure 4-T



Figure 4-U

## SETTING UP FOR TENSION WIRE

31. To equip the machine to dispense tension wire, remove the three barbed wire holders. Remove the hitch pins and pull out the barbed wire holders. (Fig. 5-A)

32. Insert a tension wire holder into the position nearest the dispensing arm. Hold in place with the hitch pin. (Fig. 5-B)

33. Insert the center tension wire guide into the center position and secure with a hitch pin. (Fig. 5-C)

34. Insert the second tension wire holder into the outside position and secure with a hitch pin. (Fig. 5-D) The unit is now setup up to dispense tension wire.



Figure 5-A



Figure 5-B



Figure 5-C



Figure 5-D

35. Loosen (Fig. 5-E) and move the wire braces towards the center of the tension wire holders. (Fig. 5-F) They should be inside the roll of tension wire when it's put in the holder.



Figure 5-E

36. Remove the snapper pins at the top of the wire braces (Fig. 5-G) and remove the large nut on the center shaft. (Fig. 5-H) Lift the top off the tension wire holder. (Fig. 5-I)



Figure 5-F



Figure 5-G



Figure 5-H



Figure 5-I

37. Place a roll of tension wire on the tension wire holder. (Fig. 5-J) Make sure the wire braces are inside the roll and the wire is centered on the holder.

**NOTICE** The roll next to the dispensing arm must dispense counter-clockwise. The outside roll must dispense clockwise.

38. Push the wire braces up against the inside of the tension wire and tighten. (Fig. 5-K)

39. Replace the top of the tension wire holder and secure the wire braces with the snapper pins. Screw the large nut onto the center shaft. (Fig. 5-L)

40. Hook the inside end of the wire roll around one of the wire braces. (Fig. 5-M)

41. Cut the wire holding the tension wire roll together on the outside holder. (Fig. 5-N)



Figure 5-J



Figure 5-K



Figure 5-L



Figure 5-M

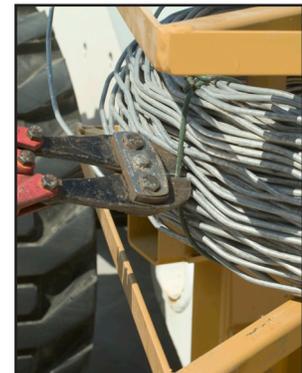


Figure 5-N

42. Thread the end of the wire through the center tension wire guide in the center position. (Fig. 5-O)



Figure 5-O

43. Run the wire up over top of the mid guides (Fig. 5-P) and thread through the first dispensing arm guides. (Fig. 5-Q) It is a plastic guide which is different than the three metal guides in the center used to dispense barbed wire. This wire will run along the top of the fence.

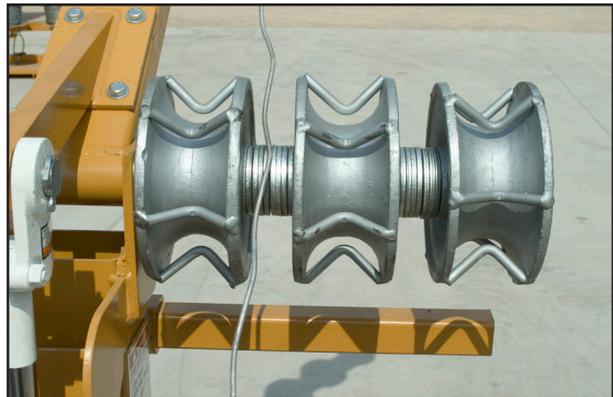


Figure 5-P

44. Cut the wires holding the other roll of tension wire together. Thread the wire through the tension wire guide located on the dispensing arm just above the tension spring guides. (Fig. 5-R) The wire will run over the top of the tension spring guides. This wire will run along the bottom of the fence.



Figure 5-Q

45. Tie the tension wires off at the termination post and dispense wire.

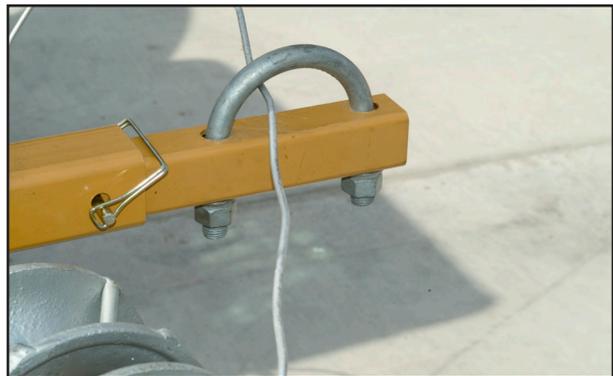
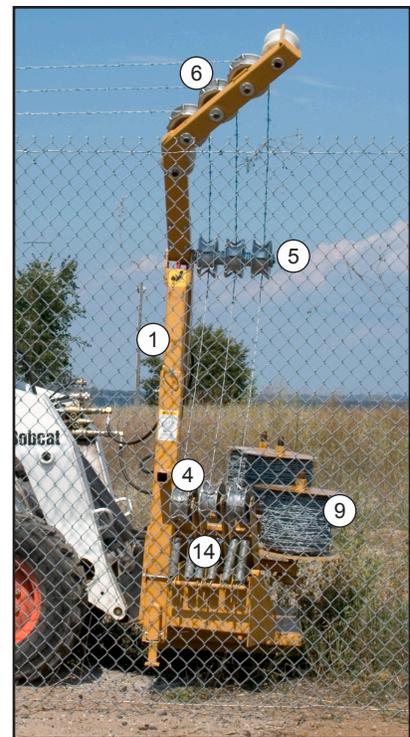
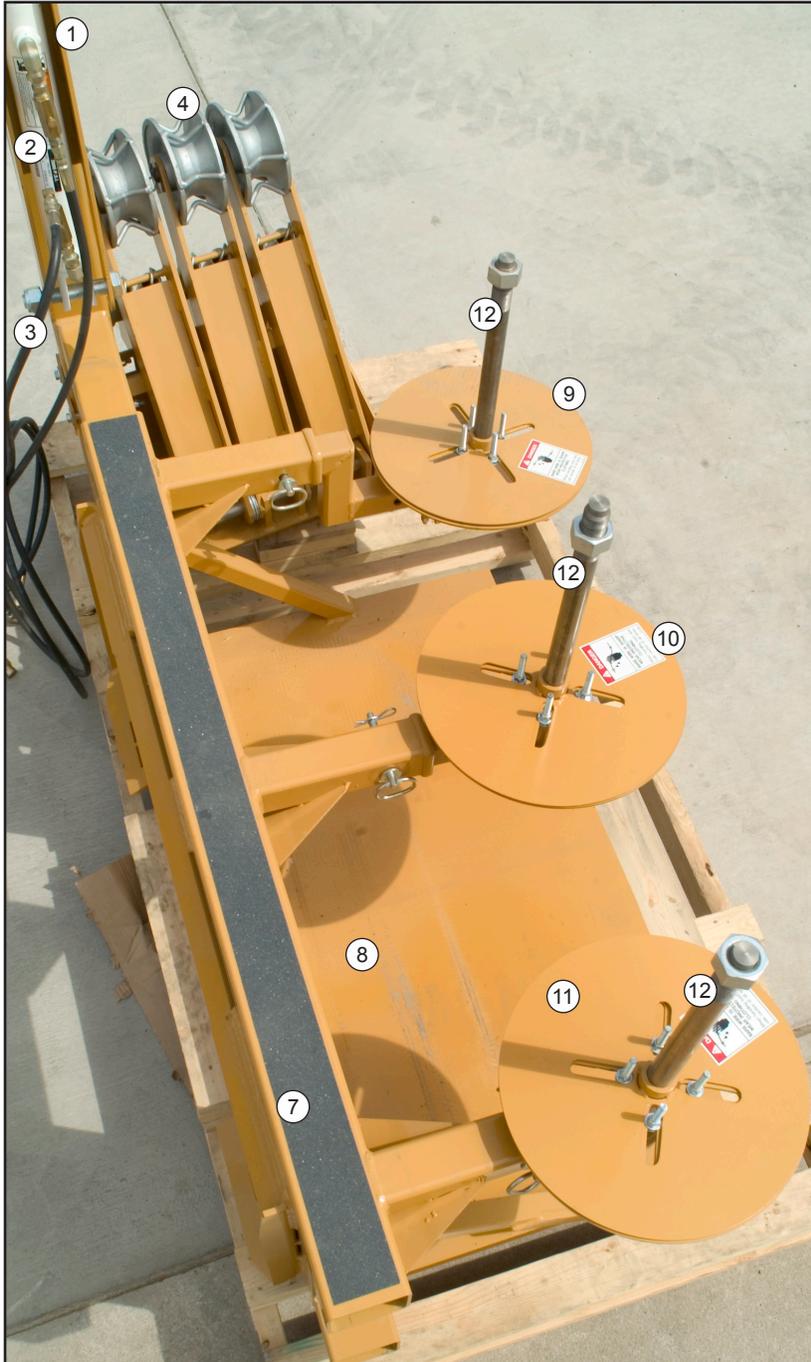


Figure 5-R

# COMPONENT TERMINOLOGY



- |                                      |                                      |                                |
|--------------------------------------|--------------------------------------|--------------------------------|
| 1. Dispensing Arm                    | 7. Step                              | 11. Outside Barbed Wire Holder |
| 2. Hydraulic Holder                  | 8. Barbed Wire Roll Storage Platform | 12. Barbed Wire Holder Shaft   |
| 3. Hydraulic Hoses                   | 9. Inside Barbed Wire Holder         | 13. Tension Wire Guides        |
| 4. Spring Tension Barbed Wire Guides | 10. Center Barbed Wire Holder        | 14. Tension Springs            |
| 5. Mid Barbed Wire Guides            |                                      |                                |
| 6. Dispensing Arm Guides             |                                      |                                |