TRI-L MANUFACTURING, INC.

OPERATOR'S MANUAL FOR
UNR-3000 / UNR-3000C

CAUTION:
Read all information carefully before assembling or operating.





INTRODUCTION

The model UNR-3000/UNR-3000C is designed for use on Category II tractors with a 3 point hitch or a standard Category II quick hitch. The UNR-3000/UNR-3000C will transport and unroll round bales up to 3000 lbs. and will handle bales from 46" to 62" in width, and bale diameters up to 72".

The UNR-3000/UNR-3000C is designed for transporting and unrolling large round hay bales only. NEVER attempt to use it for any other purpose.

OPERATION

CAUTION: Counterbalance rear end loads.

When using the UNR-3000/UNR-3000C keep bale centered on the spinners, and drive with the load as low to the ground as possible. By keeping the load low and the tractor speed down, most accidents can be avoided. A load carried low also increases visibility when backing.

Be alert to any obstacles or changes in terrain that may cause the tractor to tip over or the unroller to be damaged.

Make sure the bale is positioned in the unroller in such a manner that it can be unrolled. Bales that are secured backwards waste time and can cause damage to the unroller when trying to unroll.

If other persons operate this unit, they should first be instructed in the features and safety procedures described in the manual.

MAINTENANCE

The UNR-3000/UNR-3000C is a sturdy unit that will hold up well under normal usage. However, it is recommended that all pivot points be lubricated periodically with quality grease.

It is also recommended that the unroller be placed on supports to level the arms and keep the spinners off the ground. This will aid in attaching the unit to the tractor and keep the arms and spinner assemblies from being damaged.

When servicing the unroller, it would be advisable to check and fix (if necessary) the hydraulic system on the tractor.

ASSEMBLY

NOTE: Assembly may require more than one person, or a standard lifting device may be needed. All Self-Locking Nuts should be tightened to remove excess play, but not so tight as to restrict movement of parts.

Read all assembly instructions before beginning assembly and study the exploded view of the UNR-3000/UNR-3000C to familiarize yourself with the unroller and the relationships between parts.



ATTENTION!
ALWAYS BE ALERT!
YOUR SAFETY IS INVOLVED!

Stand Main Frame **(1)** on its support legs. Insert Right Arm **(2)** into frame. Line up hole in frame with hole in arm unit, making sure pivot arm is free.

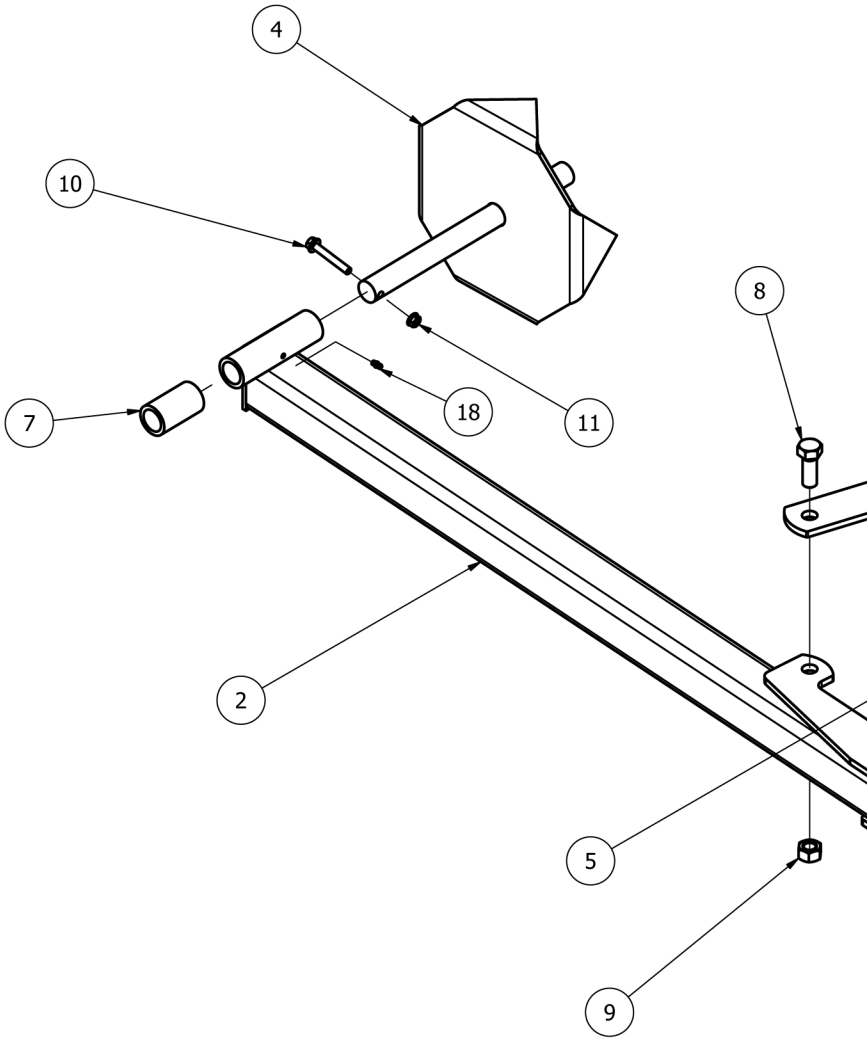
Apply a thin layer of grease to the pivot pin bolt [1-1/4"-7 x 6-1/2" Bolt] **(5)** and insert it through the frame and arm unit, securing with a Self-Locking Nut **(6)** provided. Tighten nut to remove vertical play in bolt, allowing the arm to swing freely from side to side. Repeat this procedure for the Left Arm.

Insert a Cylinder Hinge Arm **(12)** through the upside down horseshoe-shaped bracket, with the smaller 3/4" hole forward. Install a 3/4"-10 x 2" Bolt **(8)** through the 3/4" hole in the pivot arm and the tab on the front of the Main Frame **(1)**. Install a 3/4" Self-Locking Nut **(6)** and tighten, allowing the arm to swing freely from side to side. Repeat this procedure for the remaining Cylinder Hinge Arm **(12)**.

Place one of the Cylinder Swing Arms **(3)** ON TOP of the right Arm **(2)**, aligning the smaller 3/4" hole with the hole in arm unit. Insert a 3/4"-10 x 2" Bolt **(8)** and tighten, allowing the arm to swing freely from side to side. Repeat this procedure on the left Arm **(2)** for the remaining Cylinder Swing Arm **(3)**.

Place the Sleeve **(7)** over the Spinner **(4)** shaft and insert the combined unit into the horizontal sleeves at the end of each Arm **(2)**. Secure the spinners in place by inserting 3/8"-16 x 2-1/2" Bolt **(10)** through hole in the spinner shaft and securing tightly with 3/8" Self-Locking Nut **(11)** provided. For use with 5' through 5 1/2' bales, install

Item	Qty.	Part No.	Description
1	1	401030	Main Frame
2	2	401031	Arm
3	2	106037	Cylinder Swing Arm
4	2	401032	Spinner
5	2	208015	1-1/4"-7 x 6-1/2" Bolt
6	2	203003	1-1/4"-7 Self-Locking Nut
7	2	111018	Sleeve
8	4	208018	3/4"-10 x 2" Bolt
9	4	203004	3/4" Self-Locking Nut
10	2	208007	3/8"-16 x 2-1/2" Bolt
11	2	203001	3/8" Self-Locking Nut
12	2	106038	Cylinder Hinge Arm
13	2	211003	Cat. II Draw Pin
14	1	215002	2 x 8 Hydraulic Cylinder
15	2	213005	3/8" 3000 PSI Hose, 72" OAL 9/16-18 (06) JIC Female Swivel x 1/2-14 (08) NPT Male Straight
16	2	214008	1/2-14 (08) NPT Quick Disconnect
17	1	214002	9/16-18 (06) NPT Female to 9/16-18 JIC Male .062 Straight Restrictor optional not included
18	2	212001	1/4-28 Grease Zert

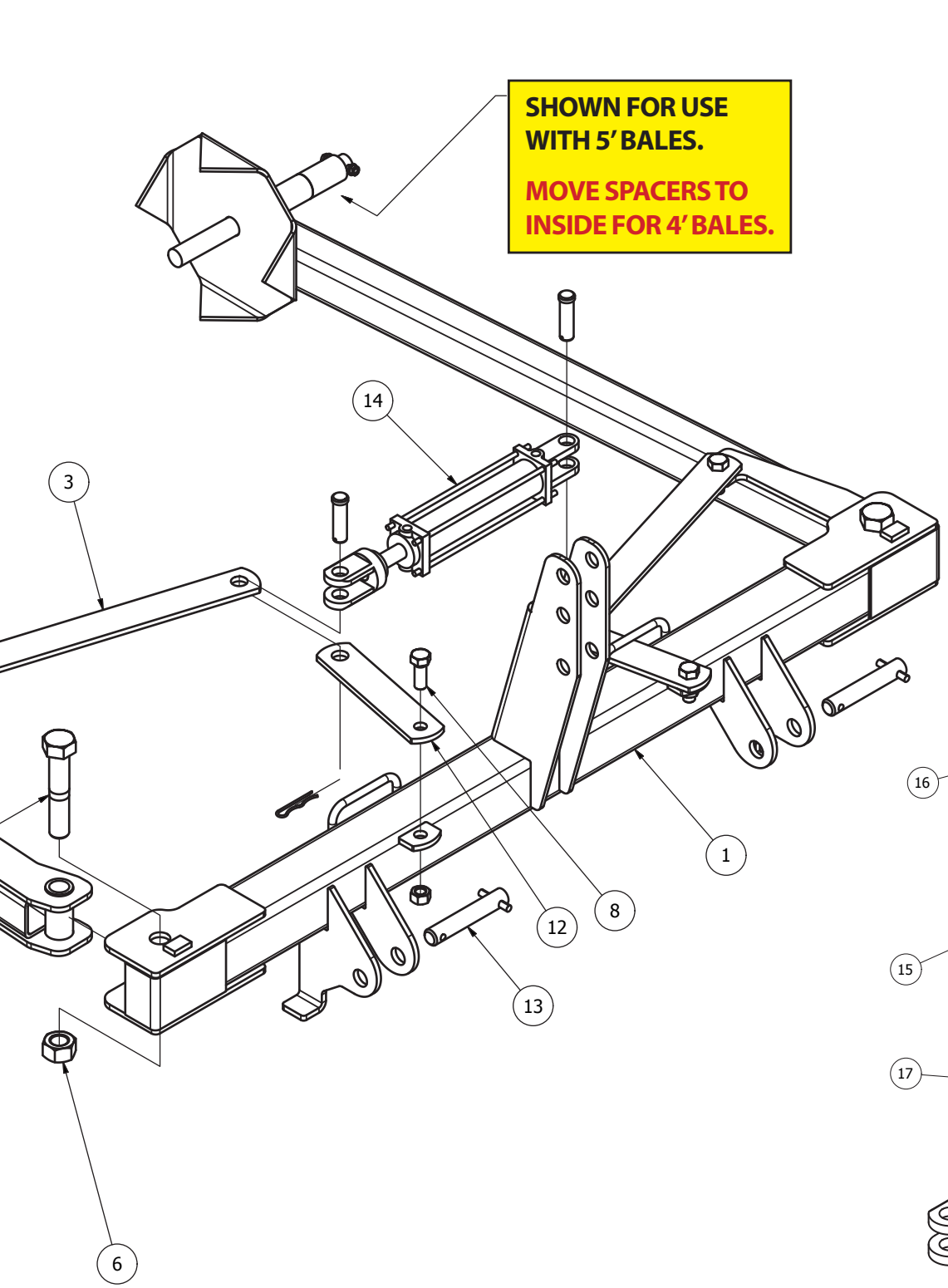


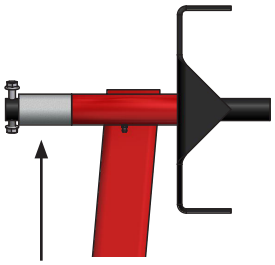
Sleeve **(7)** on outside of arm as shown in diagram. Lubricate with grease before using.

Place your Hydraulic Cylinder **(14)** with the hydraulic ports on top into position as shown. Using 1" Clevis Pins **(13)**, connect each end of the cylinder to both the Cylinder Hinge Arm **(12)** and the Cylinder Swing Arms **(3)** as shown. Install hydraulic cylinder according to all manufacturer's instructions. NOTE: Only use a hydraulic unit with a 2" diameter and an 8" stroke.

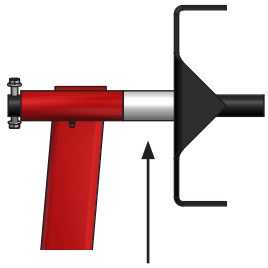
When connecting hydraulic hoses, make sure that all connections between the tractor and the UNR-3000C are tight-fitting, free and will not bind or pinch. Cycle the hydraulic cylinder several times to remove air from the cylinder and lines. Check hydraulic hoses and fittings for leaks immediately after charging system and tighten as necessary.

Operator is responsible for any fluid loss.

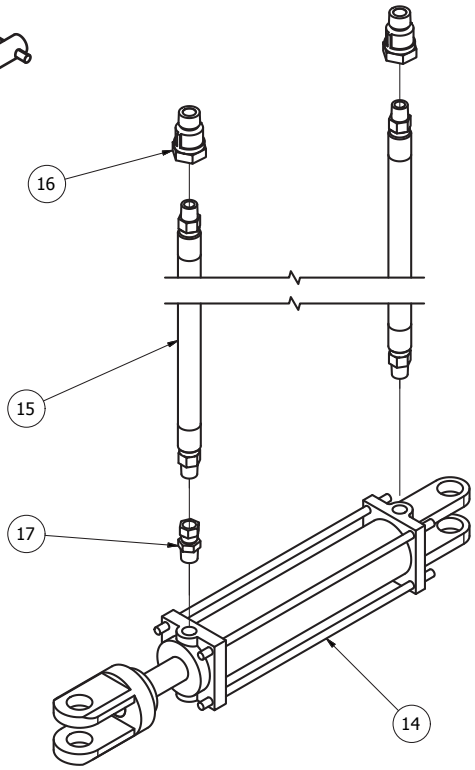




Spacer placement for 5' bales



Spacer placement for 4' bales



TRI-L
MANUFACTURING, INC.

Unrollers

UNR-3000 UNR-3000C



- For bale widths 4' to 5'
- Designed for 3pt. hitch
- Quick hitch compatible
- Aids in pasture fertility and saves hay
- UNR-3000: does not include cylinder, hoses, quick disconnects, or restrictor
- UNR-3000C: unroller complete with 2x8 cylinder, hoses, quick disconnects, and restrictor included

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