

# MIL-STAK

LARGE BALE STACKERS

## Operator's Manual

LS/1500 Large Bale Stacker



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Patent Pending



The MIL-STAK LS/1500 is easy to operate. It has no computer or sensors. There is no joystick or display to mount in the tractor cab. Just plug in six hoses, connect the tail lights plug and your ready to stack.



The simple hydraulic design allow the operator to clamp, lift and slide the bales onto the stack bed with one tractor remote. The second tractor remote is used to swing the hitch to align with the bales while loading or to side shift to the right to see the stack while unloading. The third tractor remote is to lift the stack bed for unloading.



The single axle with large flotation tires easily carries the load over any type of ground and does not damage the hay when making tight turns.



The MIL-STAK LS/1500 comes standard with LED lighting making it easily seen when traveling between fields.

# **MIL-STAK**

## **LARGE BALE STACKERS**

With the **MIL-STAK LS/1500** Large Bale Stacker you can single-handedly load and stack up to 70 large square bales per hour from the comfort of your tractor cab. It is easy to operate and designed to withstand years of use in demanding conditions. The low profile and load holding ability makes it superior in loading bales on steep hillsides.



The LS/1500 picks up bales the same direction as your baler places them in the field by clamping the sides of the bale, eliminating the need to drive cross-wise or slide the bales on the ground into position.

The spring loaded bale bumper takes the shock out of non-stop loading and is easily adjusted for various bale lengths.



Quickly lifts the bales off the ground to keep from embedding dirt and debris into your hay. Also does not damage the crop by excessive sliding or twisting of the bale across the field.

Bales are placed cross-wise on the front of the stack bed and the hydraulic push-bar slides the bales back. Push-bar then stays in the up position until the next bale is loaded.



# LS/1500

## Hydraulic Set up and adjustment

1. There are six hydraulic hoses to connect to the tractor remotes. Two are for the hitch swing left and right, two are for the bale clamp lift and lower, and two are for the stack bed raise and lower.
2. The hydraulic hoses are color coded in pairs. The stack bed hoses have red bands around them. The Bale Clamp hoses have yellow bands around them. The hitch hoses have no bands.
3. The Hitch and the Stack Bed are simple, direct acting, two way hydraulic functions.
4. How to adjust the Bale Clamp circuit;
  - A. VERY IMPORTANT When first Operating the Bale Clamp, watch carefully to make sure the Bale Clamp and the Push Bar do not collide
  - B. In normal operation, when the bale clamp is down, the push bar will be up. When bale clamp is up, push bar will be down.
  - C. There are two flow control valves. One flow control valve is used to control the speed of the push bar down and one flow control valve is used to control the speed of bale clamp up.
  - D. Begin by closing the bale clamp, when the hydraulic pressure reaches the factory preset amount, the bale clamp begins to lift, and the push bar begins to fall. If the push bar falls too slowly, the lifting bale clamp will collide with push bar. To correct this, the flow control needs to be opened 1 or 2 rounds (counter clockwise). If the push bar is falling too fast and/or the bale is being pushed on the ground too far before lifting, the flow control needs to be closed 1 or 2 rounds (clockwise).



## Sequence valve operation

1. Tractor operator pushes and holds tractor remote lever to the 1st position.
2. This causes the bale clamp to close and tighten on the bale. As the operator continues to hold the remote lever in the 1st position, required hydraulic pressure is reached and the sequence valve opens and lifts the bale to the full up position, and simultaneously lowers the push bar to the down position.
3. Operator then releases the remote lever.
4. Operator then pulls back and holds the remote lever into the 2nd position.
5. This causes the bale clamp to open and simultaneously the push bar to lift and push the bale out of the bale clamp onto the stack bed, as the operator continues to hold the remote lever in the 2<sup>nd</sup> position, required hydraulic pressure is reached and the empty bale clamp is lower to the down position.
6. Operator then releases the remote lever.



# UNLOADING

1. The second tractor remote is used to shift to the right to align with the stack while unloading.
2. The third tractor remote is to lift the stack bed for unloading.

