

HD4SR & 12SR BALE STACKER Module 1: Bale Stacker Overview



Preface

- The machine used for the training module is a HD12SR Bale Stacker, which is similar to the 4SR but cannot double-row the bales.
- These machines are a manual hydraulic machine, meaning that they are controlled by the operator from remotes in the tractor.





Preface

- Looking under the bed of the HD4SR or the 12SR you will find the following:
 - Slow Moving Sign
 - The Offset Hitch Alarm
 - Operators Manual
- Hydraulic requirements 120HP -150 HP large frame tractor should be used with a minimum of 1500 PSI and 15 gpm of hydraulic flow.





 The machine has a negative hitch when raising the bed weight so before hooking up the hoses, hook the stacker to a suitable tractor, and use a Bolt Pin Clevis Supplied, and torque to 450 ft/lbs.







- Looking at the front of the hitch you will see that the hydraulic hoses are run through a black plate that is marked with letters:
 - H- Is for the hitch swing
 - L- Is for the loader and alignment arms
 - B- Is for the bed tilt







- After hooking up the hydraulics, function the loader up and hold the valve to make sure the loader is up, pull the hitch transport pin from mainframe of the stacker, and replace on to the field positon holder.
- Operate the off set hitch, then inline the hitch back and forth a number of times to charge the system with oil.





• Keeping hitch off set, function the loader up and down numerous times. With the loader up, alignment arms will open, moving the same lever, lower the loader. Once the loader is down, reverse the lever and the alignment arm will close. (At this point the 12SR grab hooks will engage) If they do not engage, check for hose routing as lines would not be set up correctly. Then the loader will continue to rise.







- Once the loader is parallel with the ground, the loader will stop, continue holding the lever the grab hooks will retract to home position.
- The loader will rise to the same angle of the bed, then open of the alignment arms the bales this would release and gravity would slide them back.







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Note that it is Imperative that the machine is pre-run at PDI time before it is delivered to the customer.





ALIGNMENT ARMS CHAIN TENSION

- With the Loader in the upwards position, adjust the alignment arm chains by pulling the chain hook and attaching by hand.
- This will give enough support under the load of lifting bales, some slack is acceptable.





BED EXTENSIONS

- When receiving the stacker, the bed extensions have been preassembled backwards for shipping.
- Note the extension in the picture shows the field position.







LIFTED BED INSPECTION

With the bed in the lifted position and over-centered, inspect the following:

- Check the axle u-bolts for a torque value of 628 ft/lbs.
- Check the wheel nuts for a torque value of 450-500 ft/lbs.
- Check that the oil in the wheel hubs is just up to the full mark using 80w90 oil.







LIFTED BED INSPECTION

Tire Pressure:

- Tire pressure for the implement tire HD4SR is 32 PSI.
- Tire pressure for the Terra Grip tire is 44 PSI.







LIFTED BED INSPECTION

Lubrication Points & Lubricants: Hydraulic Oil - High quality that meets or exceeds tractor specifications Axle Hub Oil - 80-90 gear lube Grease - Non clay based Bale Slide Surface - Dry film graphite lubricant (Slip-Plate®)





Notes:

- 1. Alignment arm pivots and main hitch pin have remote grease hoses.
- 2. Make sure hubs have oil and the plug is in the hub caps. Changing bearings is dificult and requires large size tools.
- 3. Grab hooks have no grease zerks. See grab hook assembly for location of plastic bushings.
- 4. Lubricate Dynex Valve monthly with oil (90W, 10W30, etc.) through plug in spool cap.
- 5. (10) = 10 hour grease point.



