

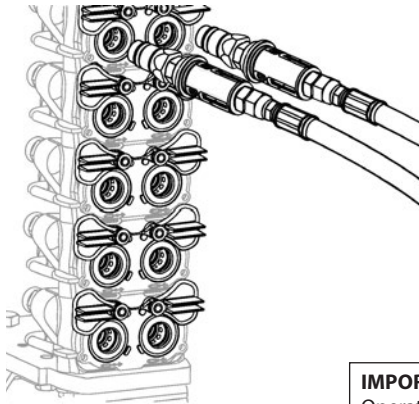
# QUICK-START GUIDE\*

## for **HDSR 930-1520**

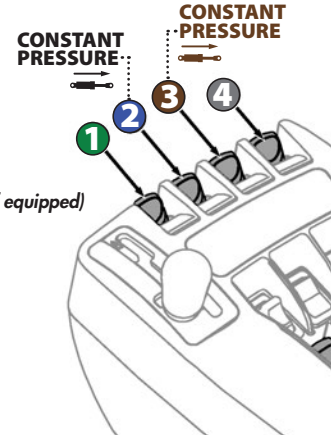
(Models up to serial number HDSR00032)



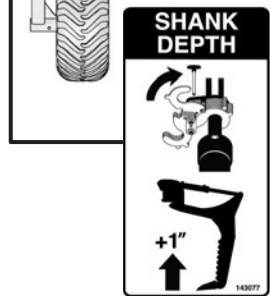
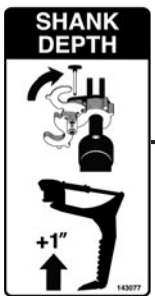
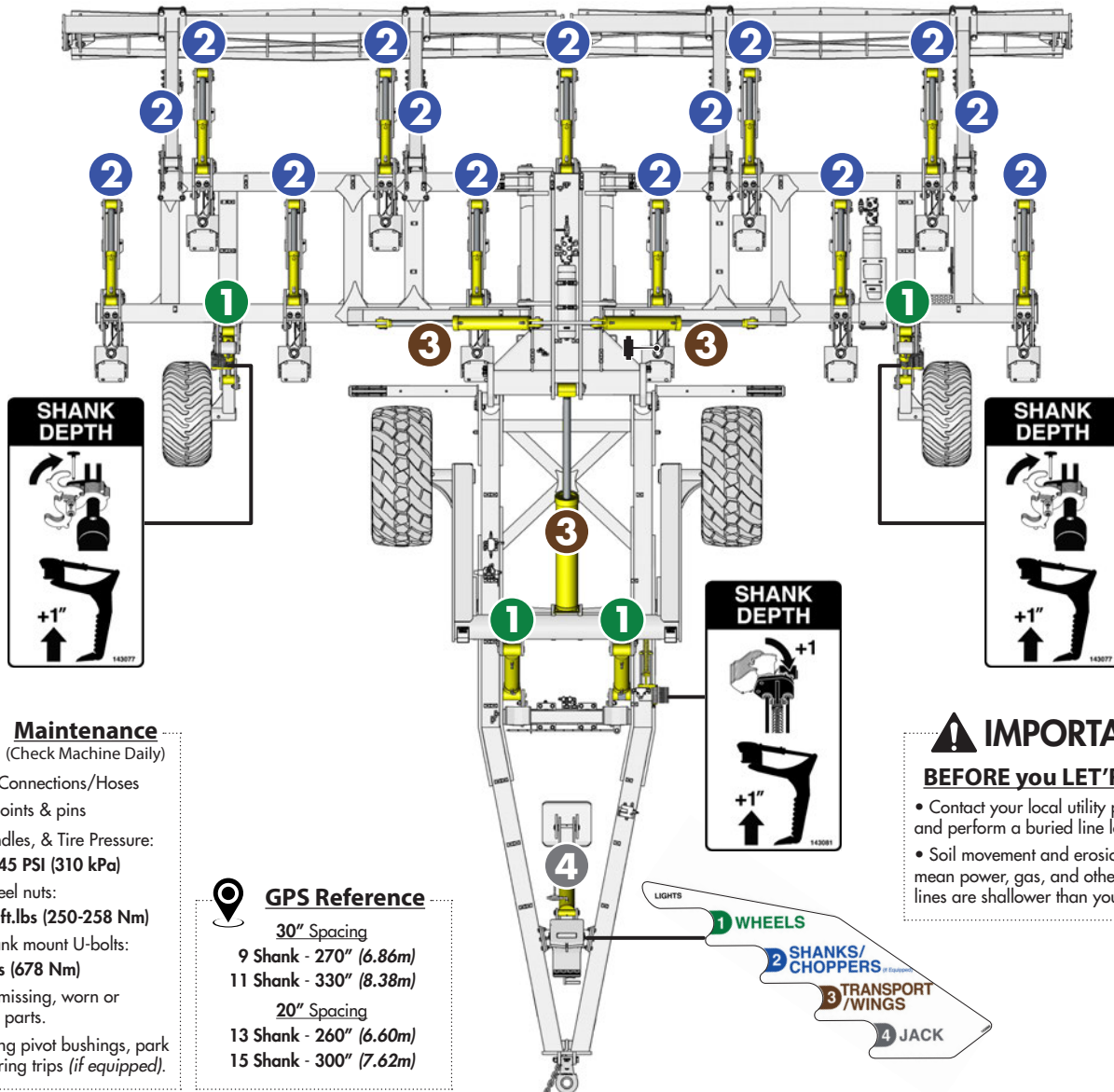
### A Connect Hydraulics



- 1 WHEELS**
- 2 SHANKS/CHOPPERS** (if equipped)
- 3 TRANSPORT/WINGS**
- 4 JACK**



**IMPORTANT:** The *Shank Circuit* includes a *Pressure Reducing Valve*. Operator must engage shank circuit hydraulics **constantly** in the extended direction to ensure constant shank pressure. Adjust shank circuit and transport circuit flow down to 20-30% to reduce heat build-up.



#### Maintenance

(Check Machine Daily)

- Hydraulic Connections/Hoses
- Working points & pins
- Hubs, Spindles, & Tire Pressure:
  - Wheels: 45 PSI (310 kPa)
- Torque wheel nuts:
  - 185-190 ft.lbs (250-258 Nm)
- Torque shank mount U-bolts:
  - 500 ft.lbs (678 Nm)
- Check for missing, worn or damaged parts.
- Grease wing pivot bushings, park jack & spring trips (if equipped).



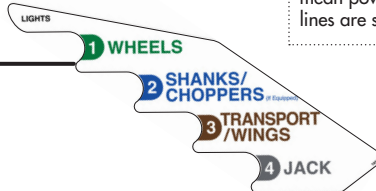
#### GPS Reference

- 30" Spacing
  - 9 Shank - 270" (6.86m)
  - 11 Shank - 330" (8.38m)
- 20" Spacing
  - 13 Shank - 260" (6.60m)
  - 15 Shank - 300" (7.62m)

#### IMPORTANT

##### BEFORE you LET'R RIP:

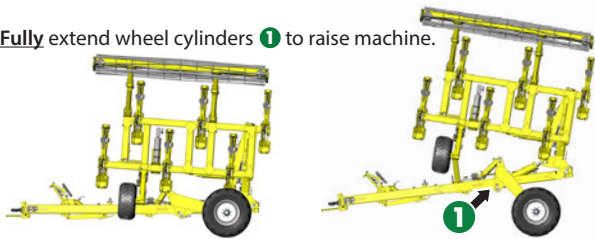
- Contact your local utility providers and perform a buried line locate.
- Soil movement and erosion can mean power, gas, and other buried lines are shallower than you think!



## B Convert to Field Position

i) Adjust clevis height for tractor. Machine frame should be level when in lowest transport position.

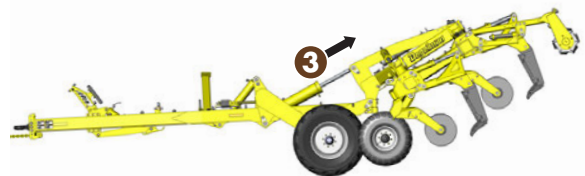
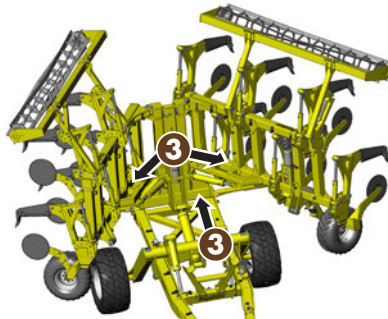
ii) Fully extend wheel cylinders ① to raise machine.



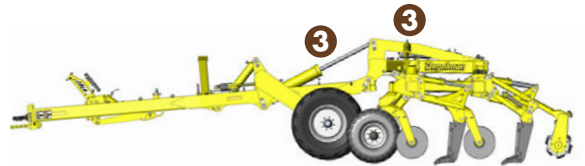
iii) Extend wing and transport cylinders ③ to unfold.

**IMPORTANT**  
**NEVER UNFOLD WINGS WITHOUT FULLY EXTENDING WHEEL CYLINDERS!**

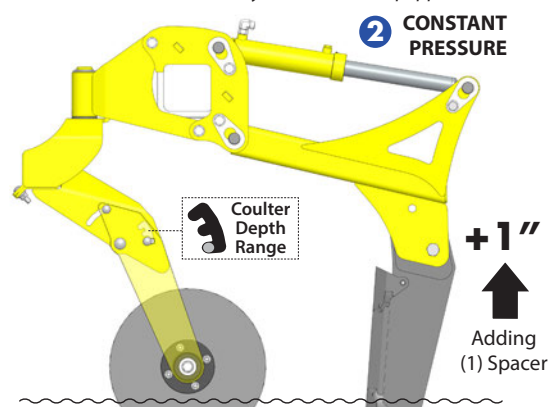
• If the Transport Cylinder starts to extend *before* the Wing Cylinders, **STOP** the unfolding process and consult the troubleshooting section.



iv) For best results, keep machine level. Activate wing remote ③ in **constant pressure** while machine is working in field.



v) **IMPORTANT:** Ensure Shank circuit ② is set to **constant pressure** in the extended direction. (If hydraulic shank equipped.)



## C Set Ripping Depth

ii) Remove T-handle pin.

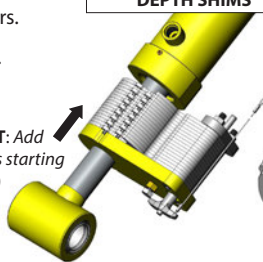
**GAUGE WHEEL CYLINDER DEPTH SHIMS**

**ROCKSHAFT CYLINDER DEPTH SHIMS**

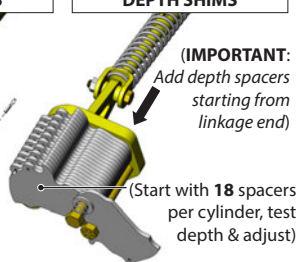
iii) Rotate spacers.

iii) Replace pins.

(IMPORTANT: Add depth spacers starting from rod end)

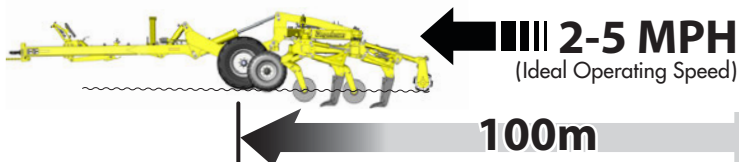


(IMPORTANT: Add depth spacers starting from linkage end)



(Start with 18 spacers per cylinder, test depth & adjust)

## D Test. Check. Adjust.



(NOTE: Ripping faster than 5 MPH increases likelihood of breaking shank shear bolts. Replace with 5/8" GR8 bolts only.)

- Extend ① wheel cylinders for headland turns.
- Lift machine for deep ravines/ditches.

## F Converting to Transport Position

- Follow the **reverse** of steps "B" shown above.

**IMPORTANT:**





- Fully extend wheel cylinders ① before attempting to fold in wings.
- Leave remote ③ engaged after folding in wings so wheels ① can be retracted to lowest transport position.
- Ensure wing rollers are resting in transport cradles before road transport.

## G MAX Transport Speed: 40 km/h (25 MPH)

### Adjust Coulters Based on Expected Ripping Depth

- 18"-24" - Loosen all 3 bolts with provided wrench.
- 12"-17" - Move bolt to notch for expected ripping depth.
- 6"-11" - Re-tighten all 3 bolts. (Repeat for all coulters.)

### Adjusting Shank Pressure (If hydraulic shank equipped.)

Turn screw:  Clockwise to increase pressure   
 Counter-clockwise to decrease pressure 

NOTE: 2200 psi = 3700 lb trip force (recommended)

