

Lubricating the *Wizard PDS*® Pins

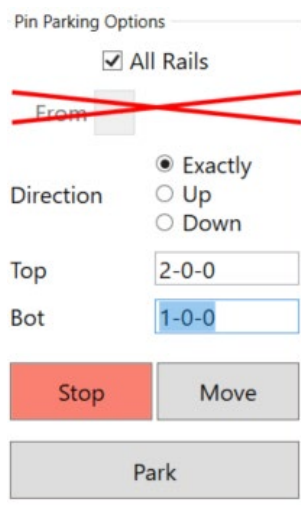
Following these lubrication instructions ensures that the pins are able to move seamlessly up and down each rail. The moving parts in a Wizard PDS system that are installed into the assembly table needs to be lubricated at these intervals, at a minimum:

- At installation
- Every 2 weeks during the break-in period (the first 3 months after installation)
- Once a month after the break-in period

If your environment requires additional lubrication or the schedule is lost, these symptoms indicate that the pins need to be lubricated:

- The rails are getting louder when moving
- The pins are not moving as smoothly
- The pins are not getting to their exact location every time

1. Move all pins to the bottom of the table.



Pin Parking Options

☒ All Rails

~~From~~

Direction

☒ Exactly

☐ Up

☐ Down

Top 2-0-0

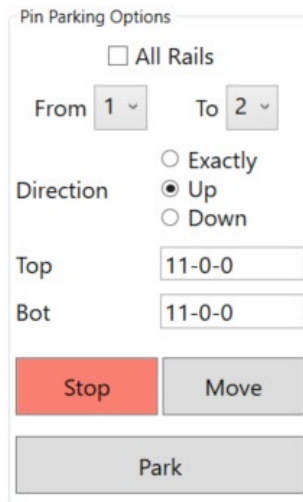
Bot 1-0-0

Stop Move

Park

By moving every pin to the bottom of the table (top at 2 feet and bottom at 1 foot) you are setting up the table to be lubricated. Enter the numbers in the field shown here and select the **Stop** button. This step only needs to be done once.

2. Prepare to move pins to the top of the table.



The 'Pin Parking Options' dialog box contains the following elements:

- ☐ All Rails
- From: 1 (dropdown), To: 2 (dropdown)
- Direction:
☐ Exactly
☒ Up
☐ Down
- Top: 11-0-0 (text input)
- Bot: 11-0-0 (text input)
- Buttons: Stop (red), Move (grey), and Park (grey)

Moving pins toward the top of the table allows the lubrication to be dispersed along the rail. The screen shot is assuming two people are lubing a table, so Rails #1 and #2 are selected. If only one person is performing the lubrication, select the same number in the **From** and **To** fields. Use the **Up** direction to move the pins up however many feet-inches-sixteens from their current position. In this example, an operator is moving the top and bottom pins up 11 feet from their current position. Your table may need to move farther depending on your table dimensions.

Do not press the **Move** button until you are ready to apply the lubrication.

3. Apply the lubrication

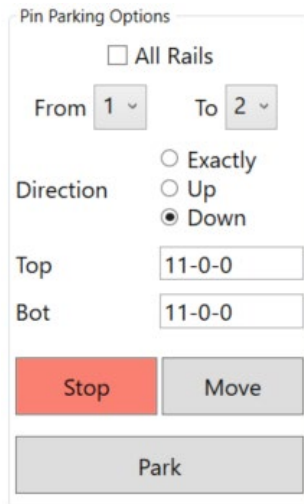
Lubrication Specs:

Lubricant used MUST be an aerosol dry graphite lubricant. NEVER use petroleum or paraffin based oils or solvents such as WD-40, kerosene, motor oil, transmission fluid, etc. We recommend using John Deere® dry graphite (John Deere part #TY25797). These cans are consistent and empty 100% of the product, unlike some cheaper brands. One can should lubricate approximately 8 screws.

Apply the lubrication while the pins are moving using these steps:

- For the RIGHT screw:
 - a) With the pins at the bottom edge of the table, start moving them up toward the top-chord edge of the table.
 - b) While moving, spray the RIGHT screw ahead of the slide nut that has threads engaged.
 - c) Continuously spray the lubricant ahead of the moving slide nut until it reaches the edge of the table.
- For the LEFT screw:
 - a) With the pins at the top edge of the table, start moving them down toward the bottoms-chord edge of the table.
 - b) While moving, spray the LEFT screw ahead of the LOWER slide nut that has threads engaged.
 - c) Continuously spray the lubricant ahead of the moving slide nut until it reaches the edge of the table.

4. Move pins back to the bottom



The image shows a 'Pin Parking Options' dialog box. It contains a checkbox for 'All Rails' which is unchecked. Below this are two dropdown menus for 'From' (set to 1) and 'To' (set to 2). Under the 'Direction' label, there are three radio buttons: 'Exactly' (unchecked), 'Up' (unchecked), and 'Down' (checked). Below the radio buttons are two text input fields: 'Top' with the value '11-0-0' and 'Bot' with the value '11-0-0'. At the bottom of the dialog are three buttons: a red 'Stop' button, a grey 'Move' button, and a larger grey 'Park' button.

Return the pins to their starting point at the bottom of the table by selecting the **Down** radial button in the Pin Parking Options window. When you click the **Move** button, the pins will move back to their original positions at the bottom of the table, assuming you did not alter the Top and Bot dimensions from their entry in step 2.

5. Repeat for all rails.

Repeat the process for each rail, starting with step 2.

6. After all rails are lubricated:

Move all the pins up and down the entire length of the table 2 times to make sure the lubricant is spread out evenly on the rod assembly.