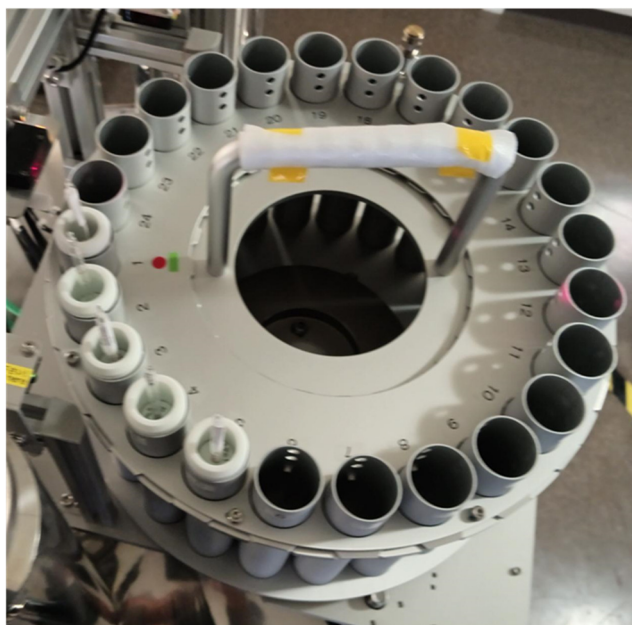


Setting the NMR tube into the holder on a 400/500 MHz JEOL NMR with 24 Automatic Sample Changer



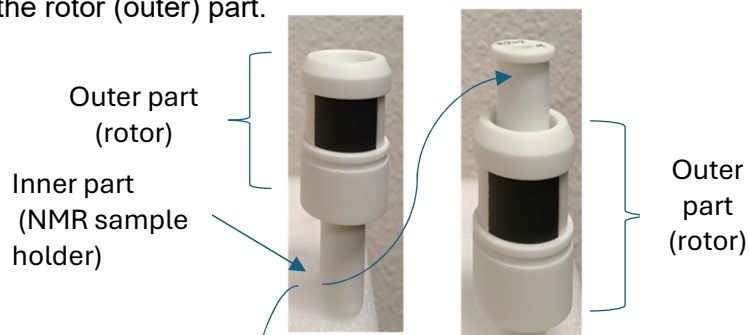
Inserting the NMR tube containing the sample into the spinner

1. Always wipe the NMR tube and **spinner** with a Kimwipe cloth before inserting it into the spinner.

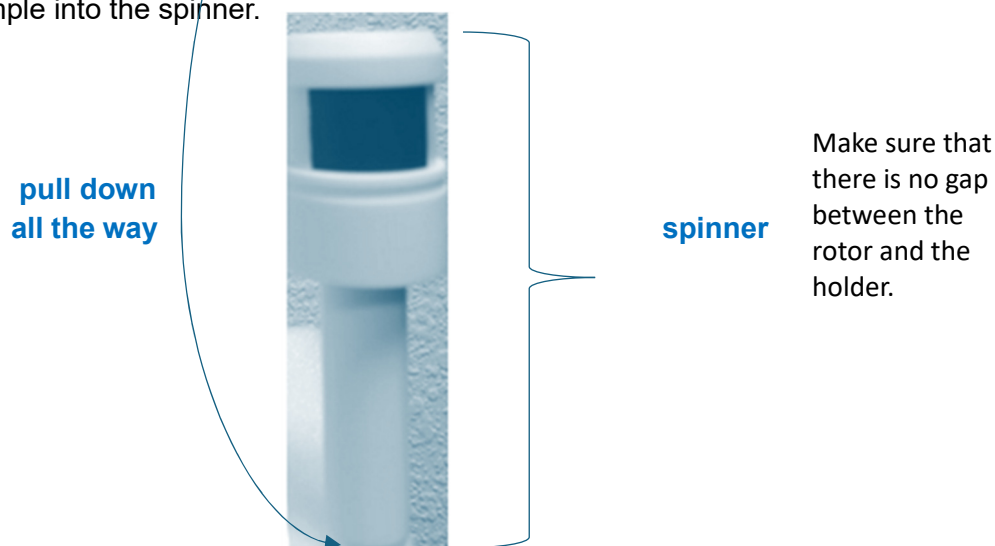


spinner

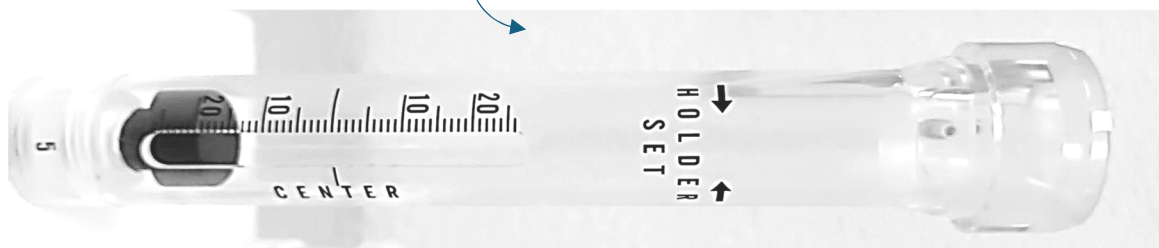
- The spinner consists of two parts (the inner part, which can move up and down) and the rotor (outer) part.



- Make sure the inner part (holder) is pulled down all the way before inserting the sample into the spinner.



- Carefully insert NMR tube into the hole of the spinner holder (A) and push down it while rotating NMR tube until goes out from the bottom side of spinner (C).
- Use a sample **Depth Gauge** to position the NMR tube correctly before inserting it to the empty slot of Auto Sample Changer.



Hold the Depth Gauge (D) and insert the spinner with the NMR sample into the top of the Depth Gauge. Then push the NMR tube down gently while rotating until it touches the black stopper surface of the Depth Gauge (D and E).

6. Remove the spinner with NMR tube (hold the spinner from the outer part-rotor, but not from the NMR tube!) from the Depth Gauge and place it carefully in the empty slot of Automatic Sample Changer (F) .

A



B



C



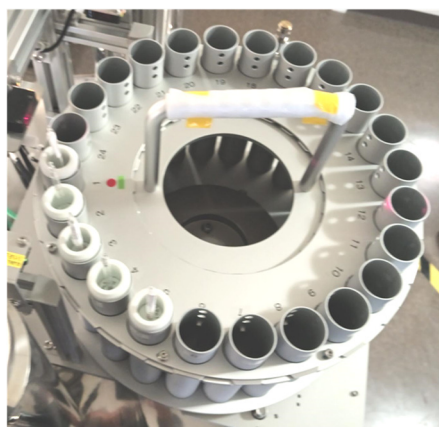
D



E



F



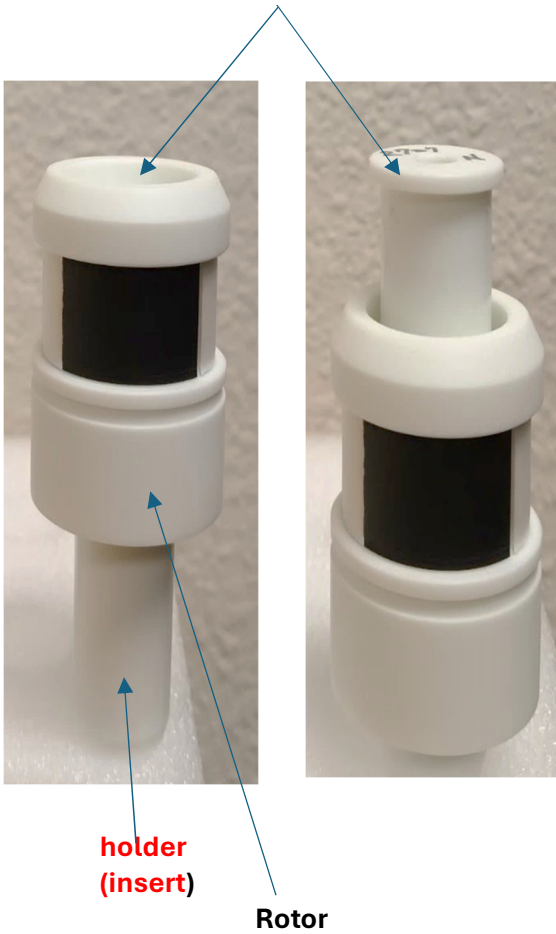
**Incorrect
sample
gauging**

**Proper
sample
gauging**

Spinner

Insert is not pulled down all the way

Insert is pulled down all the way

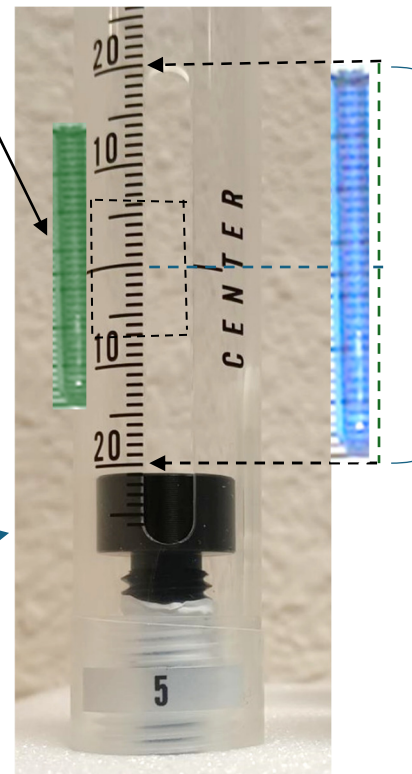


Sample Gauge



The volume of the solution should be no less than 0.5 mL and no more than 0.65 mL. The height of solution should be 4 cm.

If the volume of the solution is less than 0.5 ml, center the height of the solution around the dotted black line in the depth gauge.



In
Height
4 cm

In
Volume
~0.6 mL

magnified