HMJ DSV Full System Reboot Protocol

If you receive an instrument error message (eg. Syringe pump error), then follow the complete Full System Reboot Protocol to clear the error and attempt another sample sequence. If you are trying to run a new sample sequence and there are no error messages, you may start at the `Communication Check` section to verify that the system is ready for a new sample sequence.
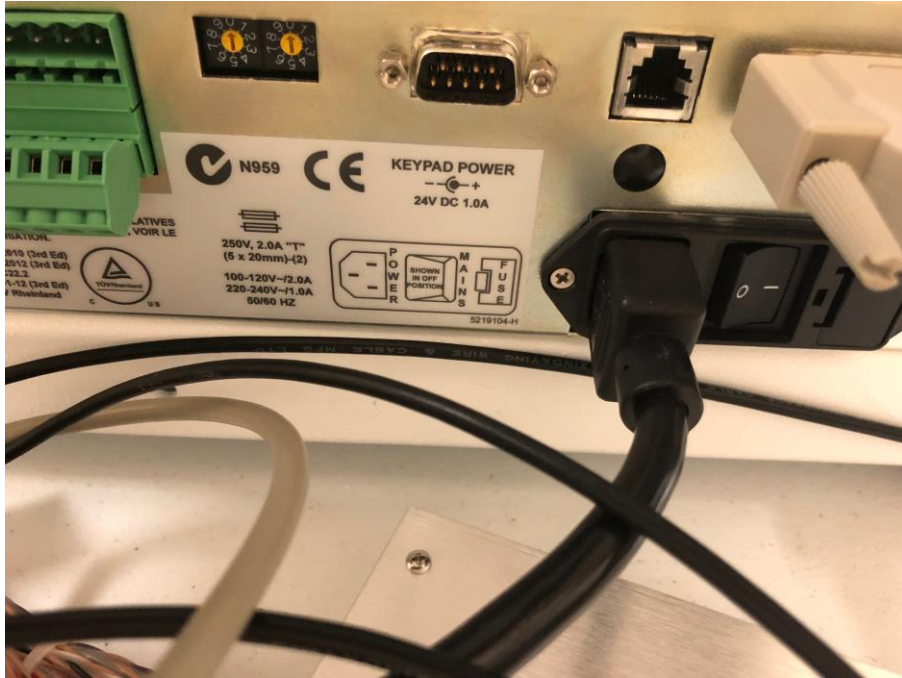
Shutting down the system

1. Turn off the Viscometer by pressing the power button on the front face of the instrument.

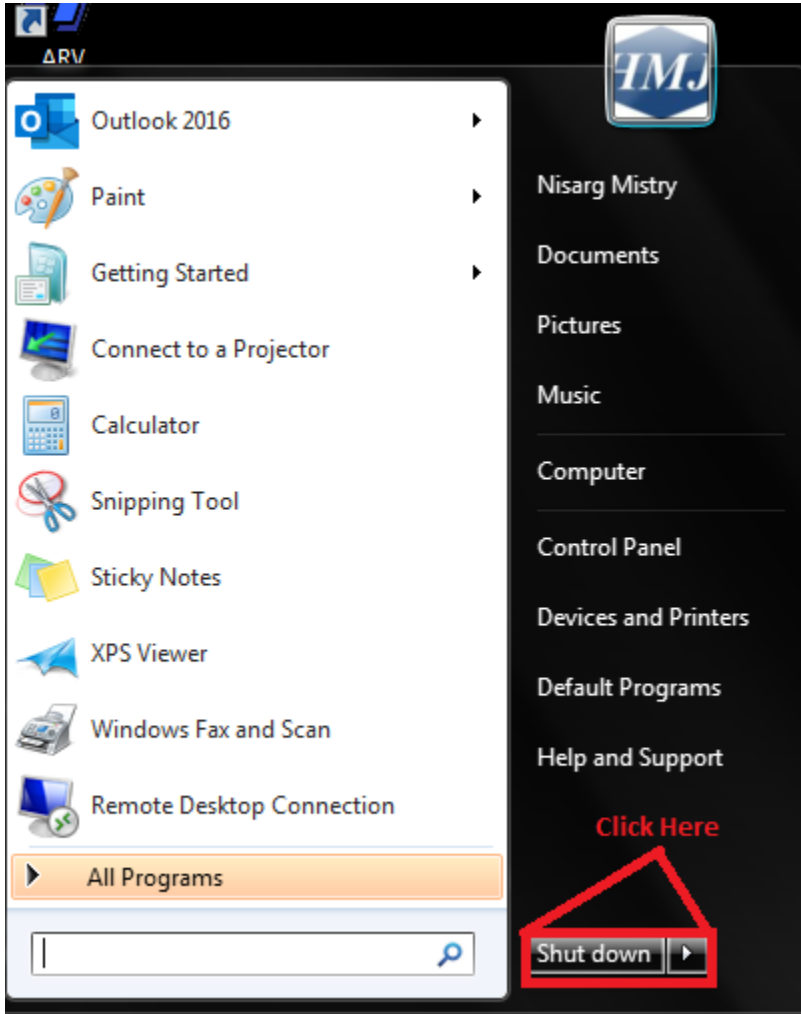2.   Turn off the Hamilton syringe pump by flipping the power switch (500 series)

or pressing the power button (600 series) on the front face of the instrument.

3. Turn off the Autosampler by flipping the switch on the back face of the instrument, which is found next to the power cable.

If your system is the HMJ Full Automation package, you will also need to flip the switch found on the right face of the instrument.
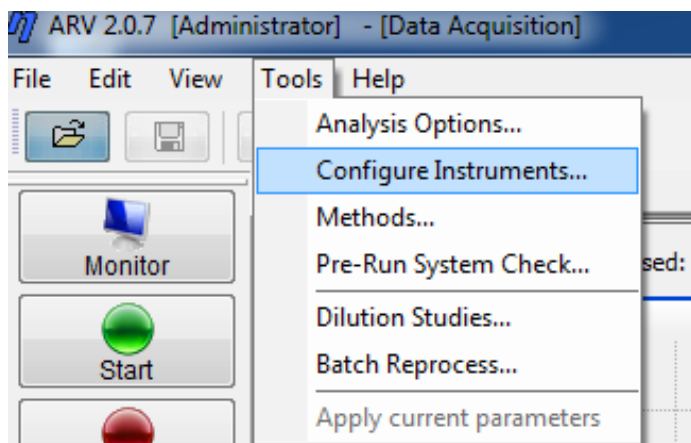
4. Shut down the computer by going into the start menu and selecting **Shut Down**.
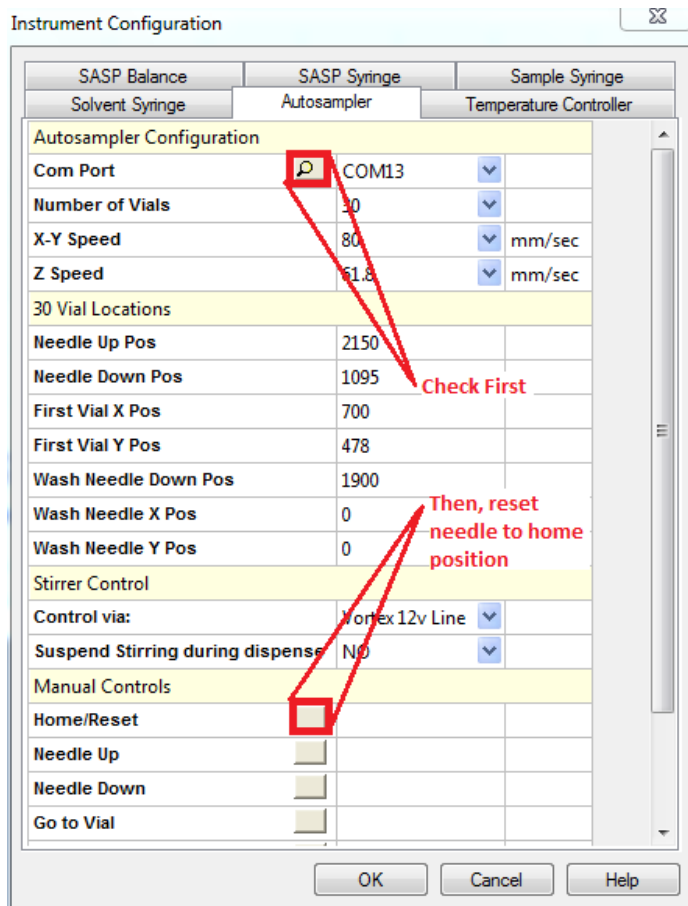
Starting the system back up

1. Turn the Autosampler back on by flipping the switch on the back face of the instrument, which is found next to the power cable. If your system is the HMJ Full Automation package, you will also need to flip on the switch found on the right face of the instrument.
2. Turn on the Hamilton syringe pump by flipping the power switch (500 series) or pressing the power button (600 series) on the front face of the instrument.
3. Turn on the Viscometer by pressing the power button on the front face of the instrument.
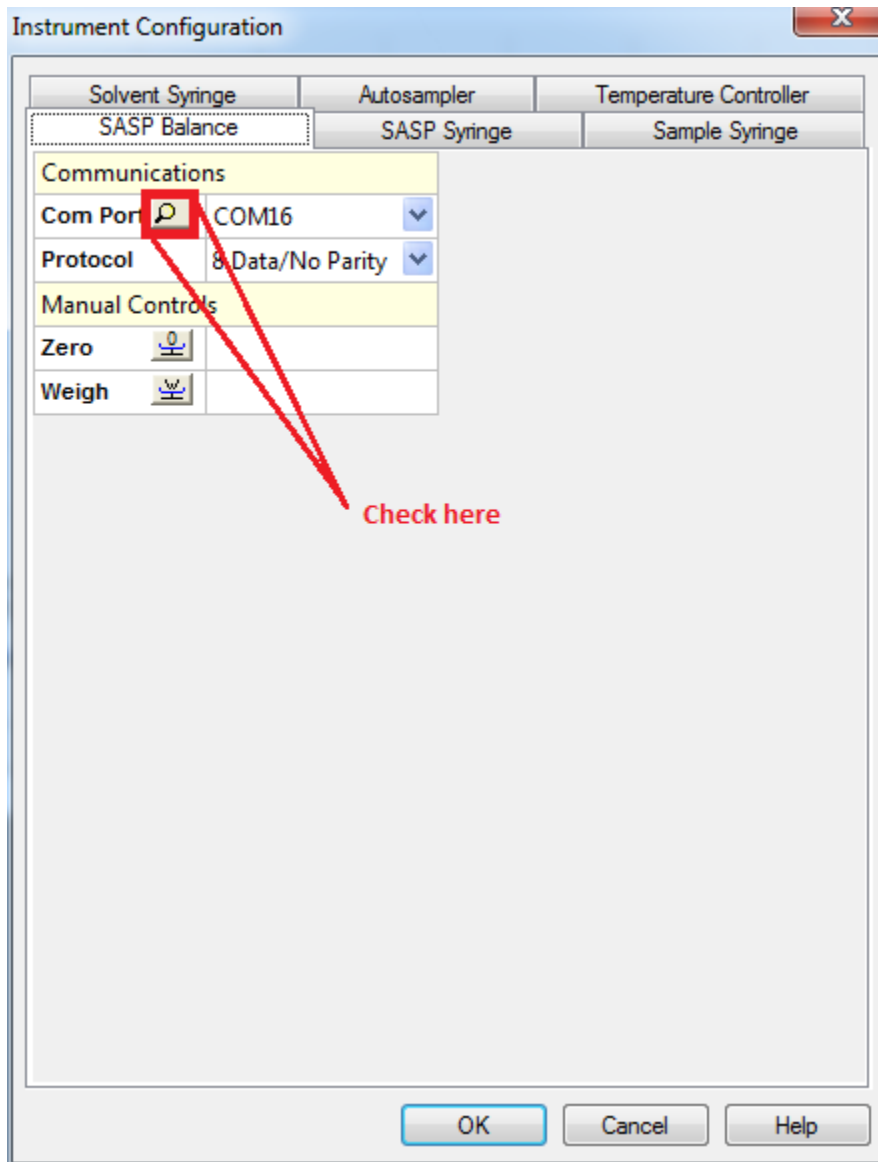4. Turn on the computer by pressing the power button on the CPU.
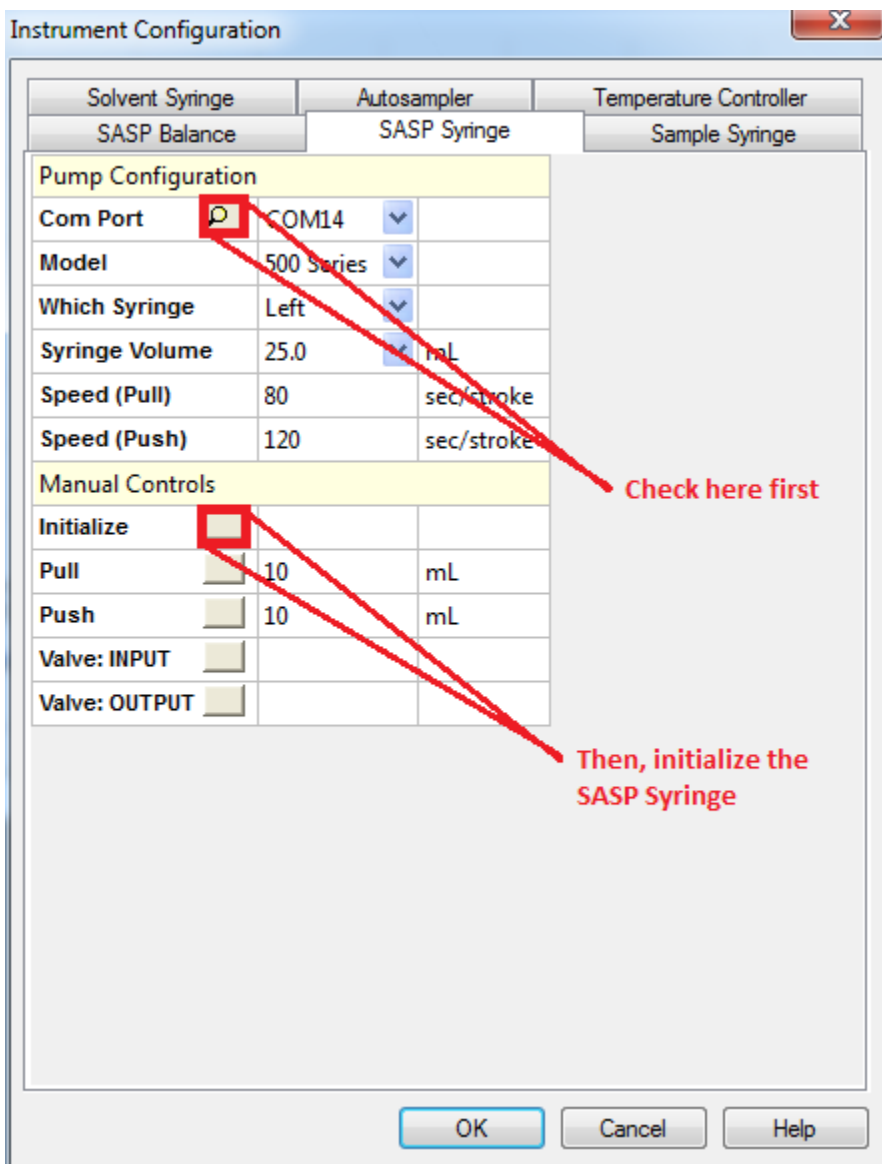
Communication Check

1. Start up the ARV Software from the Desktop.
2. Click on **Tools**, and then in the dropdown menu, select **Configure Instruments**.

3. Go into the **Autosampler** tab and click on the magnifying glass button next to the **Com Port** option and make sure a green checkmark appears on the magnifying glass. If a red cross appears instead, turn off the software, check the wires on the back of the autosampler and repeat this section. Then, click on the square next to **Home/Reset** and ensure that the needle resets to the correct Home/Wash position.

4. Go into the **SASP Balance** tab and click on the magnifying glass next to the **Com Port** option and make sure a green checkmark appears on the magnifying glass. If a red cross appears instead, turn off the software, check the wires on the back of the balance and repeat this section.

Instrument Configuration

Solvent Syringe	Autosampler	Temperature Controller
SASP Balance	SASP Syringe	Sample Syringe

Pump Configuration

Com Port	🔍	COM14	
Model		500 Series	
Which Syringe		Left	
Syringe Volume		25.0	mL
Speed (Pull)		80	sec/stroke
Speed (Push)		120	sec/stroke

Manual Controls

Initialize		
Pull	10	mL
Push	10	mL
Valve: INPUT		
Valve: OUTPUT		

Check here first

Then, initialize the SASP Syringe

OK   Cancel   Help

5. Go into **SASP Syringe** tab and click on the magnifying glass button next to the **Com Port** option and make sure a green checkmark 🔍✓ appears on the magnifying glass. If a red cross 🔍✗ appears instead, turn off the software, check the wires on the back of the syringe pump and repeat this section. Then, click on the square next to **Initialize** and ensure that the SASP syringe is resets to the correct initial position.

6. Go into the **Sample Syringe** tab and click on the magnifying glass button next to the **Com Port** option and make sure a green checkmark appears on the magnifying glass. If a red cross appears instead, turn off the software, check the wires on the back of the syringe pump and repeat this section.

Then, click on the square next to **Initialize** and ensure that the Sample syringe resets to the correct initial position.