

# Routine Maintenance Checklist

## Checklist Critical Information

Instrument location			
Serial No.		Service Report No.	
Field Service Engineer		Date:	

Annual planned maintenance for the Procise Protein Sequencer system comprises the following tasks. Place a checkmark next to each task as it is completed.

**Table 6-1** PM Checklist

<b>Prior to your arrival, have the customer do the following:</b>	
	Ask customer to turn on "Always Report Sensor Data" from the Preferences menu and set up a Performance Specification run. [HT-10pmol BLG on GFF with 15uL biobrene, cLC-2pmol BLG on GFF with 7.5uL biobrene, C-1nmol of Apomyoglobin on Prosorb].
<b>ECO Upgrades</b>	
	Ensure that the R3 bottle insert assembly has modified ferrules and bushings on gas and liquid delivery lines (P/N 4308917 and 4308918). Ensure that liquid and gas delivery lines are HDPE (P/N 4309123). (N/A for Procise C.)
<b>Preliminary</b>	
	Install clean, empty bottles onto the instrument and ensure that each reaction cartridge is assembled.
	Run the Delivery Line Backflush procedure.
<b>Replacement Parts</b>	
	Replace the reaction cartridge lines and ferrules (inlet and outlet). (P/N 604240 and 160)
	Replace the the conversion flask, flask seal, pick-up line and associated ferrules. (P/N 401990)
	Replace the R3 Angar vent valve. (P/N 130086)
	Replace the R3 pressure checkvalve and Lee ferrule on pressure line at checkvalve. (P/N 130073, 110181 and 6019)
	Replace the Rheodyne injector rotor seal. (P/N 173-0015)
	Replace the 0.4mm ID Teflon line (0.3 mm ID for Procise cLC P/N 225054) into and out of the Rheodyne injector (P/N 225108).
	Replace the 0.5 mm ID Teflon lines (P/N 225060) out of valve ports 21 and 22.
	Replace the 0.8 mm ID Teflon lines (P/N 225053) out of valve ports 30 and 31.
	Install a new Aquapore cartridge after the 140 dynamic mixer. (P/N 711-0221). (N/A for Procise cLC.)
	Replace the pump piston and cylinder seals. (P/N 200238, 200239 for Procise; P/N 201399 for cLC; P/N 200240 for both)
	Replace the switching valve and purge valve rotor seals (P/N 100332 for 7030 valves and (P/N 4311605 for 7743 valves).

**Table 6-1 PM Checklist (continued)**

<b>Checks, Tests, and Procedures</b>	
	Check the Fluid Sensor Data files for abnormal deliveries and BLG run for RY specification.
	Rebuild any damaged bottle caps; particularly R3 and S2B.
	Check the vent line for low spots where liquid could get trapped.
	Rinse out the vent trap bottle (dispose of waste accordingly).
	Flush any liquid from the bottle vent lines.
	Remove the top cover. Inspect the moisture filter and replace if necessary.
	Run the installation Leak Procedures. Repair as necessary to pass all tests.
	Load fresh S4B in the S1 position. (N/A for Procise C.) Run the Cart Wash S1 (Cart Wash S1 cLC for Procise cLC) for one cycle on each cartridge to clean the new lines.
	Load fresh chemicals on the instrument. Run the Sensor and Delivery test and address any failures.
	Run the: <ul style="list-style-type: none"> <li>◆ Flask optimization procedure</li> <li>◆ Pre-Conversion dry</li> <li>◆ Post Conversion dry</li> </ul>
	Pressure test the Model 140 Pump. Procise 25 psi/5 min Procise cLC 50 psi/10 min Actual.
	Clean the fan filter at the back of the Model 140.
	Check the detector wavelength accuracy.
	Clean the detector wavelength drive mechanism.
	Rebuild the Mac Desktop (hold down OPTION-apple keys during Restart). (N/A for Windows NT machines.)
	Cycle the Procise power and address any power-up error messages in the Event log.
	Run 3 PTH-Standards cycles to check the chromatography.
	Turn off "Always Report Sensor Data." Print out the sensor data and then delete these files.