

Attachment A – PFA MAINTENANCE

A. DAILY

a. SELF TEST – to be done daily, each shift of use.

- i. From the System Ready display, press the softkey located next to [Menus].
- ii. From the Menu display, press the numeric key [2] to select the maintenance option.
- iii. Press the numeric key [2] to select the Self-Test option.
- iv. Press the softkey located next to [YES] to continue the Self-Test and follow the instructions displayed during the test.
- v. Load a Vacuum Test Cartridge in Position A and B (insert a grayish blue Vacuum Test Cup into the blue Priming Cartridges). Press continue, the system will then rotate the carousel and instruct you to load the O-Ring Cleaning Pad (circular foam sponge) in the well. Once the cleaning pad is in position in the carousel well, add 4-5 drops of isopropanol alcohol to the center then press continue.
- vi. After the Self-Tests are completed, the system will print the high/low flag ranges and the Pass/Fail results. If anything fails, repeat the Self-Test. If it fails again, call Dade Behring Technical Support.
- vii. The system will prompt you to remove the O-Ring Cleaning Pad.
- viii. Remove the vacuum test cartridge from position B and inspect the trigger solution dispensing. Check that the trigger solution is dispensed on the raised platform of the vacuum cup. The size and exact centering of the drop is not critical. As long as there is a drop visible on the platform, trigger solution dispensing is adequate.
- ix. Remove the vacuum test cartridge from position A.
- x. Remove the vacuum test cup from both cartridges and discard. Rinse both priming cartridges with distilled water and save for further use.

B. BI-MONTHLY (TWICE PER MONTH)

a. CLEAN O-RING

- i. From the [System Ready] display, press the softkey located next to [Menus].
- ii. Press the number key [2] to select [Maintenance] option.
- iii. Press the numeric key [6] to select the [Remove O-Ring] option. The system will display the message [Load O-Ring Service Tool]. Place the O-Ring Service Tool into the incubation wells of the instrument so that the cassette is flush with the carousel surface.
- iv. Press the softkey located next to [Continue]. The system will rotate the carousel to the O-Ring removal position and bring the O-Ring in contact with Position “A” of the O-Ring Service Tool. After approximately 30 seconds, the carousel will rotate back allowing the removal of the O-Ring Service Tool.
- v. Remove the O-Ring Service Tool and press the softkey located next to [Continue]. If the O-Ring Service Tool fails to remove the O-Ring, step 4 should be repeated once more. If the Service Tool fails to remove the O-Ring, contact the Dade Behring Technical Support.
- vi. Invert the O-Ring Service Tool and tap against the palm of your gloved hand to remove the O-Ring.

- vii. Rinse the O-Ring under running tap water. Place the O-Ring between forefinger and thumb and remove any debris by using a rubbing motion while rinsing under tap water. Visually inspect the O-Ring for debris or unusual wear and tear, such as cracks. If the O-Ring requires replacement, install a new O-Ring.
- viii. Shake excess water off O-Ring and soak in 70% isopropanol alcohol for 15 seconds.

b. INSTALL O-RING:

- i. From the [System Ready] display, press the softkey located next to [Menus].
- ii. Press the numeric key [2] to select [Maintenance] option.
- iii. Press the numeric key [7] to select the [Install O-Ring] option. The system will display the message [Load O-Ring Service Tool], then press [Continue].
- iv. Load O-Ring in Position "B" of the O-Ring Service Tool.
- v. Place the O-Ring Service Tool into the incubation wells of the instrument so that the cassette is flush with the carousel surface.
- vi. Press the softkey located next to [Continue]. The system will rotate the carousel to the O-Ring removal position and bring the O-Ring in contact with the O-Ring Service Tool. After approximately 30 seconds, the carousel will rotate back, allowing the removal of the O-Ring Service Tool.
- vii. Remove the O-Ring Service Tool. Press [Continue].
- viii. Perform a [Self-Test] to verify the system has no vacuum leak.

C. YEARLY

- a. Each instrument is sent to Dade Behring for annual maintenance.
- b. **REPLACE O-RING** – use procedure from bi-monthly maintenance

D. AS NEEDED MAINTENANCE

a. REPLACE TRIGGER SOLUTION

- i. Pull up the knob to remove the probe from the trigger solution bottle and unlatch the access door. The door will automatically open when the knob is pulled to the top.
- ii. Remove the empty bottle.
NOTE: It is normal that residual solution remains in the bottle.
- iii. Remove the flip-top cap and insert the new bottle.
- iv. Close the access door.
NOTE: Be sure access door is fully closed before pushing the lever down to avoid damaging the trigger bottle spiking needle.
- v. Push the knob all the way down to insert the probe into the trigger solution bottle.

IMPORTANT: It is necessary to prime the system after replacing the trigger solution. Do not use trigger solution if turbid or if particulate matter is present.

b. PRIME SYSTEM

- i. It is recommended to prime the system and run the Self-Test after any extended (>2 days) period of non-use. This procedure will clear the system of any accumulated bubbles caused by the outgassing of the trigger solution.
- ii. Locate the priming cartridge provided for priming the system. (This cartridge is blue and does not have a top foil seal or a cup.) Snap the

cartridge into the cassette. Use only one cartridge in either position A or B.

- iii. From the **System Ready** display, press the keypad next to *[Menus]*.
 - iv. Press *[2]* to select *Maintenance* option.
 - v. Press *[4]* to select *Trigger Prime* option.
 - vi. Press keypad next to *[Prime]* to start priming the trigger solution. The cassette will rotate and the screen will display "*Trigger Priming, Please Wait*".
 - vii. When priming is complete, the cassette will rotate to the load position. Remove the cartridge, discard the trigger solution accumulated in the cartridge during the priming cycle. Rinse the priming cartridge with distilled water. Save for future use or discard if damaged.
 - viii. Press keypad next to *[Continue]*.
 - ix. Press keypad next to *[Previous Screen]* twice to return to the **System Ready** display.
- c. **REPLACE PRINTER PAPER**
 - i. See Operator's manual.
 - d. **REPLACE PRINTER RIBBON**
 - i. See Operator's manual