

Maintenance Guide For PrintVision Systems (By Customer)

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1. Introduction

In order to use the *PrintVision* system and get the most of it, it is essential to maintain the system regularly. This manual will guide you to maintain the *PrintVision* system. The customer will perform the maintenance of the system. It is recommended to read it through before starting the maintenance procedure.



2. General precaution instructions

1. Make sure this manual will always be at hand at the place of use of the machine.
2. Read all relevant instructions in this manual before attempting to perform any maintenance actions.
3. The machine must be located in an accessible place to operate the main switch and for maintenance actions
4. Make sure that trained and authorized personnel are operating the machine only, according to the user manual and/or this manual, otherwise the protection on this machine will be impaired.
5. Make sure to operate the machine only when all safety and emergency equipment is fully functional.
6. If you notice any abnormal machine behavior, power off machine immediately by disconnecting the power cord plug. Report the malfunction to the authorized AVT representative.
7. Do not use the machine near liquids.
8. The machine should be operated under specified power source (indicated on the marking label).
Power Source rating: 230Vac / 50Hz / 10A
OR
115Vac / 60Hz / 10A
9. Do not allow anything to rest on the power cord. Do not locate the machine where the power cord will be walked on.
10. The following environmental conditions must be adhered to for equipment safe operation:
 - This equipment intended for indoor use only and on a stable surface.
 - Do not operate at altitude higher than 2000 m (6562 ft).
 - Ambient temperatures: 5 to 50°C.
 - Ambient humidity: 80% RH till 31°C decreasing linearly to 50% RH at 40°C



3. Warnings

1. Always read the maintenance manual before performing a maintenance operation of any kind.
2. The system should be connected to grounded socket outlet - circuit breaker 20 Amperes
3. Use an approved industrial plug on the power cord, **Do not** disconnect this plug from the cord.
4. Before performing any maintenance operation, make sure to unplug the industrial plug on the power cord from the main wall socket outlet.
5. Observe all safety instructions and warning marks attached to the machine.



6. **Warning!** On every door or cover the label “Caution hazardous Voltage” is adhered, High voltage is present in some parts of the machine although the power is off.



7. **Warning!** On the cover of “Flash unit” the label “Caution! Refer to Manual ” is adhered, High voltage is present although the power is off
8. **Warning!** On the “Traverse unit” the label “ Hazard! Moving Parts” is adhered,
Do not implement any maintenance on the Traverse unless you push down the emergency switch that is located on the Traverse / Bridge Controller.
9. Machine is installed at the output of a press device. Make sure that the host press device is powered off before attempting to perform any kind of maintenance operation.
10. Machine utilizes a very strong stroboscopic light source.
Do not expose your body directly to the light source without the proper protective equipment.



4. Maintenance Procedure:

4.1 Filter Cleaning / Fan function (once a month)

There are filters & Fans on the rear doors of the cabinet and at the computer/SOB front panel.

Remove the filters from their housing; clean the filters thoroughly using air pressure & water rinse.

After drying, reassemble the filters to their housing.

Verify, visually, operation of the cabinet/computer fans as well as the fan on the PC power supply.

Do not operate the system without the fans operating or filters assembled.

- Inform AVT on any malfunction.
- In case of a very dusty surrounding area, perform the cleaning procedure once a week.

4.2 Signal-tower lamp replacing (once a year or upon burn)

- Shut down the system.
- Open the relevant tower's part by turning it counterclockwise
- Remove the lamp by turning it counterclockwise and pulling it out.
- Replace the lamp with a same kind of lamp by slightly pressing and turning clockwise.
- Reassemble the signal-tower (light-tower).



Fig 1



4.3 **Back board cleaning (once a month)**

Use the following cleaning material:

- Isopropyl Alcohol 70%.
 - Lens Cleaning & Wiping Cloths. AVT P/N: 14100007.
 - Shut down the system.
 - Move the optical head, manually, to the left edge of the bridge.
 - Clean the Back plate using Isopropyl Alcohol 70% and gentle cloth.
 - Move the optical head, manually, to the right edge of the bridge.
- Clean the reminder of the back plate.

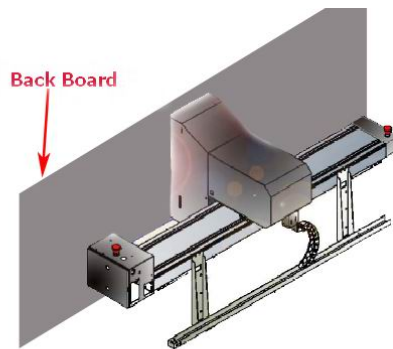


Fig 2



5. Replacement instructions –

Maintenance done by AVT Engineer/Personnel

Listed are the maintenance operations, which are to be performed by AVT engineer or instructed AVT personnel only:

Replacement a Lithium battery on the Motherboard -

* **Lithium battery type** – CR 2032 for maximum abnormal charging current 5mA
(approval – UL recognized)

* **Use** a grounded wrist strap to avoid damaging due to static electricity
(If you do not have one, touch with your hand a safety grounded object such as the power supply case)

1. **Shut down** the computer and unplug the power cord
2. **Open** computer top cover,
3. **Replace** the battery by the one that installed in the motherboard, avoid touching any motherboard components.
4. **Close** the computer top cover
5. **Connect** the power cord and start up the system
6. **Implement** “BIOS Settings” procedure, according to Technical Manual chapter 3 -“Software” (refer to the mounted motherboard)

Replacement of a Fuse (In Line) in the S.O.B -

* **Fuse type** – miniature fuse $\frac{1}{4}$ " * $1\frac{1}{4}$ " (6.3*32mm) ,250Vac ,16A
(approval – UL Listed **or** UL recognized)

1. **Unplug** the power cord
2. **Open** the S.O.B fuse holder slotted cover, using a screwdriver
3. **Replace** the fuse by the new one
4. **Close** the S.O.B fuse holder slotted cover, using a screwdriver
5. **Connect** the power cord and start up the system