

VERSA UV LEF Series - Maintenance Checklist

Models: LEF-300, LEF-200, LEF-20, LEF-12i & LEF-12

Roland UV ink based printers will require consistent preventive maintenance practices to ensure the highest quality of performance and adhere to original equipment warranty. The checklist below describes specific components that come in contact with UV inks. These parts need to be cleaned on a regular basis and should be replaced according to the schedule due to normal wear. It is essential to adhere to the suggested timeframes for maintenance and replacement to avoid needless downtime that might require a service visit from your Authorized Service Provider.

All Maintenance Procedures are referenced in the Master Guide Manual, Chapter 2 for LEF-20, LEF- 200, LEF-300 or Master Guide Manual Chapter 3 for LEF-12 & LEF-12i. To view the LEC Series Maintenance video click [here](#).

Important: Before you start a print job (daily) remove and shake the white ink cartridge for 15 seconds.

Check Points	Inspect	Clean	Replace	Cycle	Reference
Print Head	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily	Perform a manual cleaning by using cleaning sticks and cleaning liquid. Determine if they should be replaced based on SHOT COUNT
Wiper blade	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily	Clean, inspect or replaced if warped 6 Months, Wiping 3000 times or Rubbing 100 times *[TIME FOR REPLACE] appears when the number of wiping and rubbing come to 3,000 times.
Wiper Area	<input type="checkbox"/>	<input type="checkbox"/>		Daily	Wipe away any buildup of ink or grime around the wiper area.
Wiper Scraper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Weekly	Clean it manually using the Roland cleaning sticks and cleaning liquid. Replace it if necessary.
Cap Top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily	Determine if it should be replaced based on the performance of the cleaning or the time period from the last replacement. If replacement is unnecessary, clean them manually using the cleaning stick and cleaning fluid. Replacement Cycle: 2-3 months
Capping Station	<input type="checkbox"/>	<input type="checkbox"/>		Daily	Clean and wipe away any build up of ink or grime.
Table Bed	<input type="checkbox"/>	<input type="checkbox"/>		Daily	Wipe away any buildup of ink or grime on the Table bed
Check Drain Bottle	<input type="checkbox"/>	<input type="checkbox"/>		Daily	If large amount of ink is discharge in the drain bottle, dispose of it. Make sure to reset the discharge ink count. When you dispose of discharged ink, make sure to reset the discharged-fluid count from [MENU] > [SUB MENU] > [MAINTENANCE] > [DRAIN BOTTLE] and press the [ENTER] key. Otherwise, "CHECK DRAIN BOTTLE" message appears at the inappropriate timing.

Covers	<input type="checkbox"/>	<input type="checkbox"/>		Daily	Remove dust and wipe away any build up of ink or grime.
Sponge under the wipers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Weekly	Determine if it should be replaced based on its appearance or the time period from the last replacement. Replacement cycle : 12 months
Temperature and Humidity Levels	<input type="checkbox"/>			Daily	Specified temperature and humidity must be maintained even while not in use. When the temperature is too high, the alteration of ink may damage the machine. And, when it is too low, frozen ink may damage the print heads. While in use: Temperature 20 to 32 , Humidity 35 to 80% (Noncondensing) While not in use: Temperature 5 to 40 , Humidity 20 to 80% (Noncondensing) Humidity: Temperature:
Ink Lot Numbers and Expiration Dates	<input type="checkbox"/>				Check Expiration dates: Log current Lot Numbers:
Cartridge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily	If ink components precipitate, it will not be possible to print with correct colors. So that the ink mixes well, shake each ink cartridge horizontally with a stroke length of around 5 cm (2 in.) from each end of the ink cartridge.
Encoder Strip	<input type="checkbox"/>			Monthly	Check for scratches bends and ink accumulation. Performed by Service Engineer
Firmware	<input type="checkbox"/>			Monthly	<input type="checkbox"/> Upgrade the firmware if the installed firmware is not the latest version.
Sensors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monthly	Check and clean Front & Rear Paper Sensors
UV Lamp Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monthly	Replace the filter when it is clogged.
Sponge for mist catcher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monthly	Determine if it should be replaced based on its appearance or the time period from the last replacement. Replacement cycle : 500 hours
UV-LED lamps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Weekly	Check if the UV Lenses are contaminated with dust or ink. If a cleaning is needed, scrape off dust or ink using cleaning liquid (SL-CL) or the scraper and perform a manual cleaning.
Front Cover Cushion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Months	Determine if it should be replaced based on its appearance or the time period from the last replacement. Replacement cycle : 6 months
Parameters					<input type="checkbox"/> Backup – Performed by Service Engineer

Lithium Battery	Replacement Cycle: 36 Months
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Estimated replacement cycle for each part below. This data is obtained via software through the internal report (History Report) by an Authorized Service Engineer.

Parts Name	Replacement Cycle
UV-LED lamp	10,000 hours
Print head	6 billion shots / nozzle (6,000,000K shots)
Wiper	wiping 3000 times or rubbing 100 times The message appears when the number of wiping and rubbing come to 3,000 times.
Scan Motor	3,000 hours
Cap Top	3 Months
Ink Tubes	3,000 Hours
Sponge for mist catcher	500 hours The message appears when the printing hours comes to 500 hours.
Sponge for wipers Replace when worn out	Sponge for wipers Replace when worn out
Lithium battery	36 months
Pad tray	Inspect & replace when damaged
Front cover cushion	6 months or depending on the seal of the cover

Performed by: _____

Title: _____

Date: _____

Serial Number: _____

IMPORTANT:

The print head life is expressed in number of shots. The following conditions listed below could influence the print head nozzle condition and shorten the expected life of the print head.

1. Leaving the print carriage assembly uncapped and off the capping station. Print head nozzles will clog.
2. Head strikes or extended wear to the nozzle surface from excessive contact to printed substrates.
3. Lack of periodic maintenance
4. Aggressive manual cleaning on the nozzle surface

These conditions are not covered under warranty or listed as a Manufacturing Defect.