D-Lite RX ONE

Service manual

elinchrom
creative image lighting technology

TABLE OF CONTENT

1. SAFETY NOTICE

The interior of the Elinchrom devices contain components carrying dangerous levels of electric charge, even though the unit has been disconnected from the mains or without supply battery. **Before all servicing operations or repairs, you must execute the following discharge process:**

DISCHARGE PROCESS OF THE UNIT BEFORE SERVICING

Note: The discharge process is best achieved with a suitable Elinchrom Security Box (discharging box)

Code numbers:
110.305 Security Box 230V
110.310 Security Box 110V

110.200 Adaptor EL
110.205 Adaptor Ranger RX
110.210 Adaptor Ranger Quadra
110.215 Adaptor Style RX
110.220 Set of hook type test probe clip
110.225 Multimeter cables

Security Box 230V : 110.305
Security Box 110V : 110.310

110.200   110.205   110.210
110.215   110.220   110.225

1. Set the device at minimum power	
2. Switch off the unit and remove the mains cable	
3. Remove pilot lamp and flashtube and trigger contact with suitable gloves	

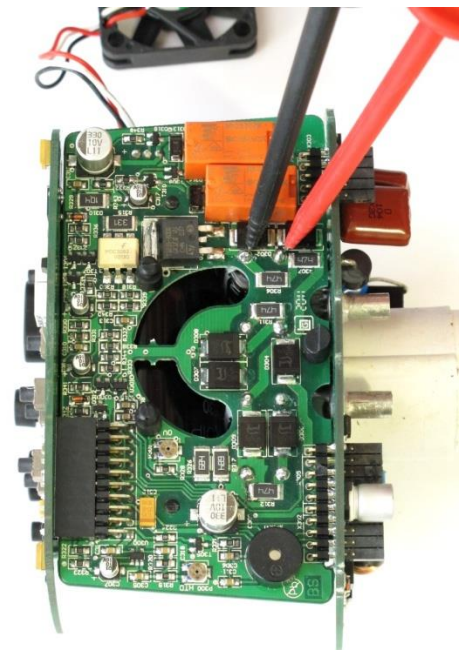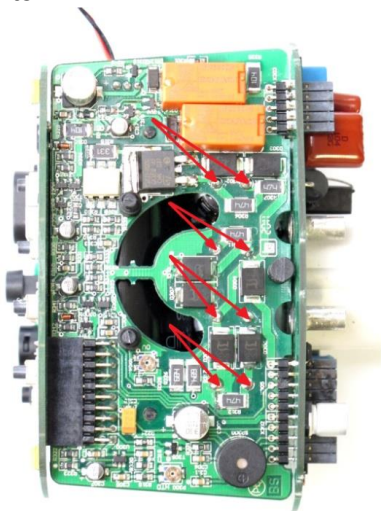|	
4. Connect the discharge box (Elinchrom Service Kit) on the flashtube sockets X410, X411 and discharge the power on these connection points.	
5. Remove the dish reflector and discharge the flash capacitor (HTD voltage) on the flashboard sockets X405, X406 *Note: do not touch the circuit boards until the end of this process*	
6. Discharge the Booster voltage on the following connection points: Socket X406, A2 of V400	

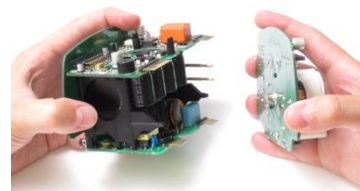|	
7. Remove the circuits boards assembly from the housing with suitable insulated gloves.	
8. Remove the fan	
9. Discharge the four doublers capacitors C301, C302, C303, C304 on the following connection points:	
10. Now you can disassembling, repairing and servicing safely.	

2. SPARE PARTS

All available spare parts are visible in our online web shop in the Distributor Center.

3. SERVICE MENU

3.1. Overview

Sub menu	Description	Display
Unit type	Sets the Unit type[1].	U0 - U3
Temperature[2]	Shows the current measured temperature [°C] of the device.	t.3 , 27 (**t** is blinking)
Frequency[2]	Shows the frequency [Hz] of the electric supply.	F.0 , 50 (**F** is blinking)
Charge delay	Sets the delay between the made flash and the start of the next charge. Default value = 0	d0 - d7
Fan control	Switches the fan control on and off. Default value = 1 (activate)	F.0 - F.1

3.2. How to operate in the Service menu

Action	Description	
Enter Service Menu	To enter the Service Menu press the three keys together for at least 2 seconds.	
Toggle	To toggle from the present sub menu to the next one push the modelling lamp button.	
Change value	Use the power up and down buttons to adjust the value.	
Save settings	Push the Eye-Cell button to save all changed settings.	
Exit Service Menu	Exit the Service Menu by pressing the beep button.	

3.3. Software configurations

Display	Description	Power range
U0	D-Lite RX 2	1.0 - 5.0
U1	D-Lite RX 4	2.0 - 6.0
U2	**D-Lite RX ONE**	0.1 - 4.0
U3	-	-

Note: Do always set the correct unit type after replacing the KBD board!

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[1] More details in Chapter **Erreur ! Source du renvoi introuvable.**.
Do not forget to set the correct unit type in the Service Menu after exchanging the KBD board!
[2] This sub menu is just an indication. It is not possible the make any settings.
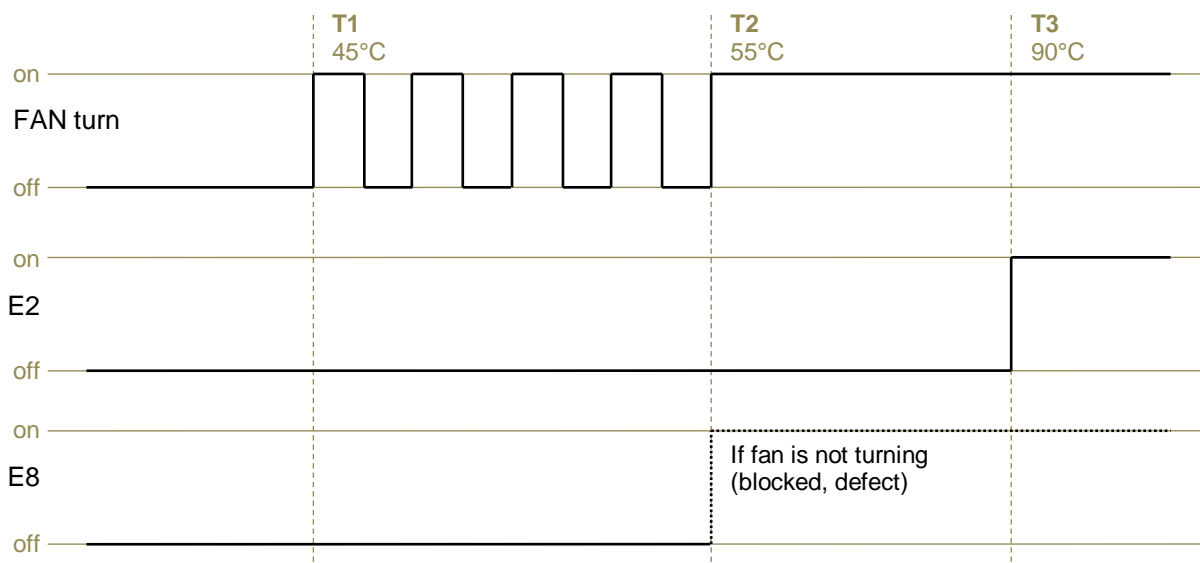
4. ERROR MESSAGES

This error messages are shown by the units display if an error is detected by the units Micro-Controller.

Error	Fault	Description	Action
E1	Over voltage	▪ Short circuit on Power board	▪ Replace the Power board
E2	Over temperature	▪ Unit is overheated ▪ Temperature sensor defect ▪ Fault on the Power board	▪ Wait for cooling ▪ Replace temperature sensor ▪ Replace Power board
E3	Auto discharge fault	▪ Discharge resistor defect	▪ Replace the discharge resistors or the whole Power board
E4	Charge fault	▪ Flash lamp is after glowing	▪ Replace the Power board
E5	Mains supply fault	▪ Slack joint on Power board, Mains board or mains cable	▪ Check and eventually replace the Power board, Mains board and mains cable
E8	Fan management fault	▪ Fan defect or blocked	▪ Replace fan

4.1. Repair Assistance

Fault	Description	Action
Skyport problem	▪ Distance range problem, trigger missing, bad communication	▪ Replace Keyboard

5. FAN CONTROL

Note: *You may disable the Fan control (see* section *Service menu*) *so that the error E8 cannot occur.*

6. KNOWN PROBLEMS AND FAQ

For a complete up-to-date list with all known problems and its solutions please login on your online Elinchrom support account (*http://www.elinchrom.ch*). There you may also find a file for frequently asked questions.