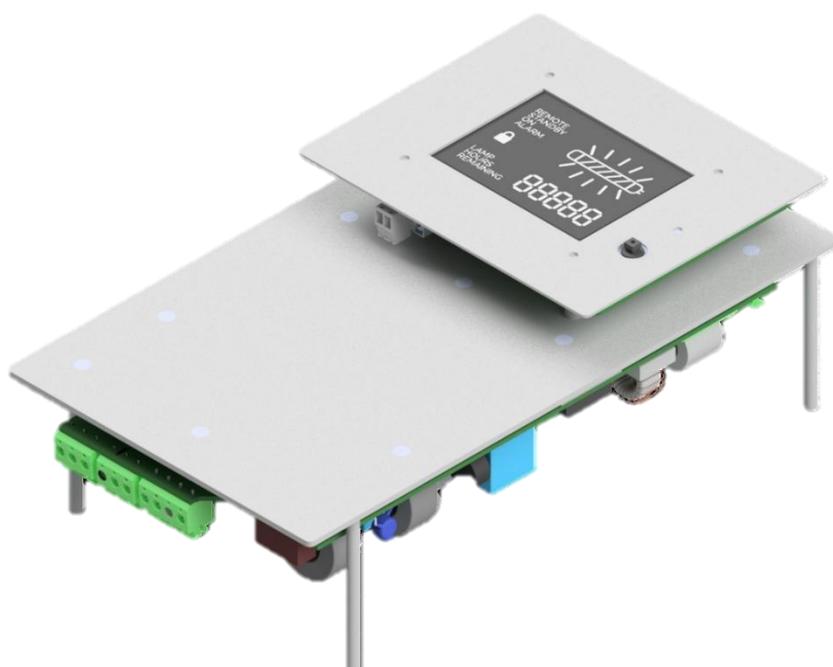


Manual

# *PCA replacement*



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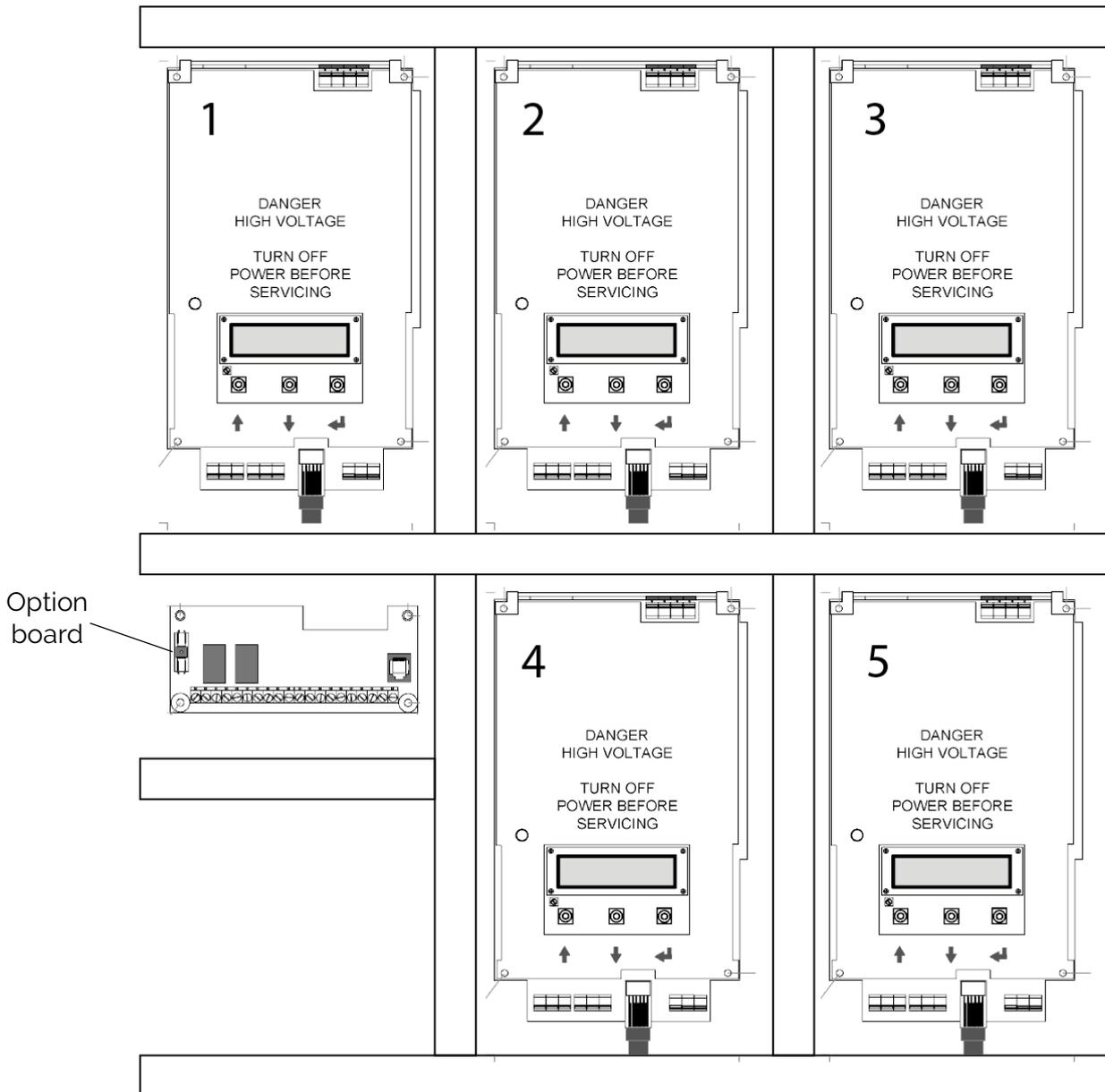
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## 1. Introduction

For multi lamp control units, it is possible to replace the old PCA with a Van Remmen Lamp Driver. By also using the Lite controller, a large part of the functionality of the old PCA is available.

For replacing a PCA without an option board, see chapter 2.

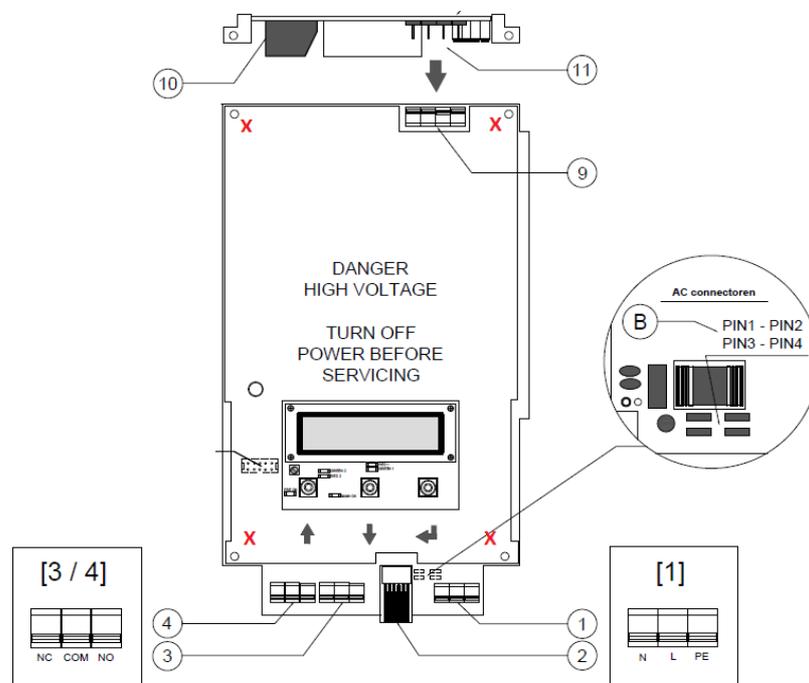
A PCA with an option board (see image below) cannot be replaced by the LD. It is recommended to replace this PCA (1) with a functioning PCA (2-5) from the cabinet and place the LD in the vacated positions. For replacing a PCA with an option board, see chapter 3.



## 2. Replacing a PCA without option board

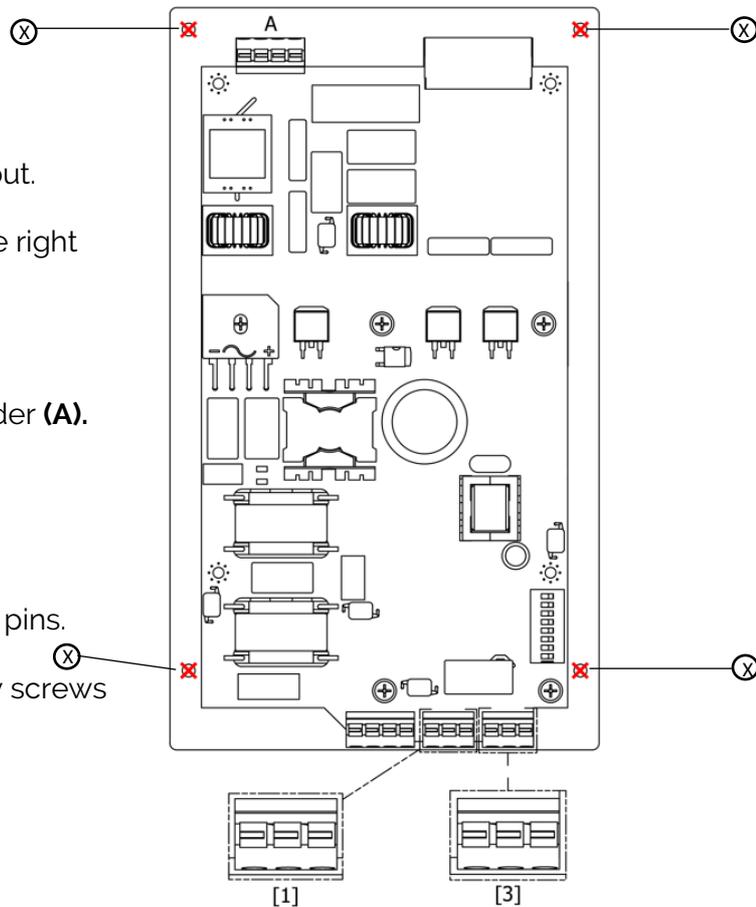
### 2.1. Removing the faulty PCA

1. Turn **OFF** the main power of the unit and isolate it electrical.
2. Remove the 4 screws (**X**).
3. Remove the metal cover.
4. Disconnect the lamp cable connected to the PCA (**9 or 11**).
  - 1= white
  - 2= yellow
  - 3= green
  - 4= brown
5. Disconnect the pre alarm wires (**4**) and place them in the supplied connector.
6. Disconnect the main (**3**) alarm wires. Be aware of the order of the wires. Advice to mark them before disconnecting.
7. Disconnect the power wires (**1**).



## 2.2. Installing the VR LD

1. Connect the power wires **(1)**.  
N = blue  
L = black  
PE = yellow / green.
2. Check if switch in is looped to switch out.
3. Connect the main alarm wires **(3)** in the right order to the auxiliary contact.  
1 = COM  
2 = NO
4. Connect the lamp wires in the right order **(A)**.  
1 = White  
2 = Yellow  
3 = Green  
4 = Brown
5. Place the LD assembly on the existing pins.
6. Fixate the LD assembly with the 4 new screws **(X)**



## 2.3. Adjusting the lamp hours remaining

1. When powering the system the Lite controller is unlocked for 60 seconds. The controller is unlocked when the lock symbol is not visible on the screen.
2. The amount of lamp hours remaining of a new lamp will show up on the screen.  
If you want to change the remaining hours, press and hold the button on the controller and the number of remaining lamp hours will drop with steps of 200 hours.
3. Release the button when the appropriate amount of lamp hours is reached.

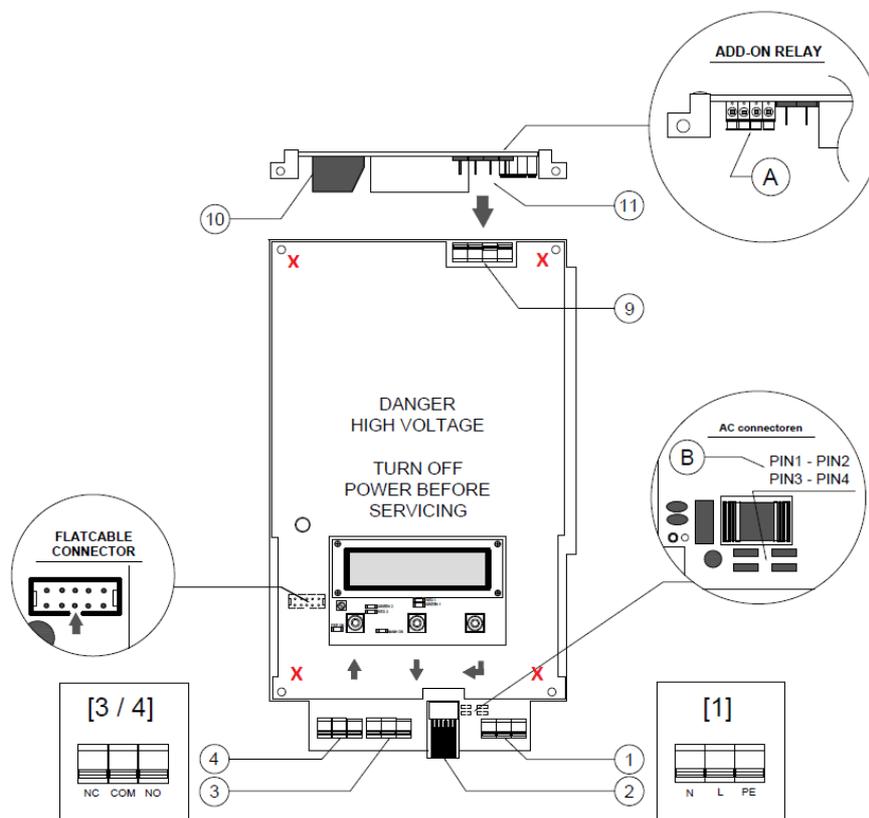


### 3. Replacing a PCA with option board

1. Replace a well-functioning PCA with a LD assembly. To do so follow the instructions in chapter 2.
2. Replace the faulty PCA with the well-functioning PCA, following the instructions below.

#### 3.1. Removing the faulty PCA with option board

1. Turn **OFF** the main power of the unit and isolate it electrical.
2. Remove the 4 screws (**X**).
3. Remove the metal cover.
4. Disconnect the lamp cable connected to the add-on relay (**A**).
  - 1 = white
  - 2 = yellow
  - 3 = green
  - 4 = brown
5. Disconnect the pre (**4**) and main (**3**) alarm wires. Be aware of the order of the wires. Advice to mark them before disconnecting.(only when connected)
6. Disconnect the power wires (**1**).
7. Disconnect the flat cable (only control PCA HF1).



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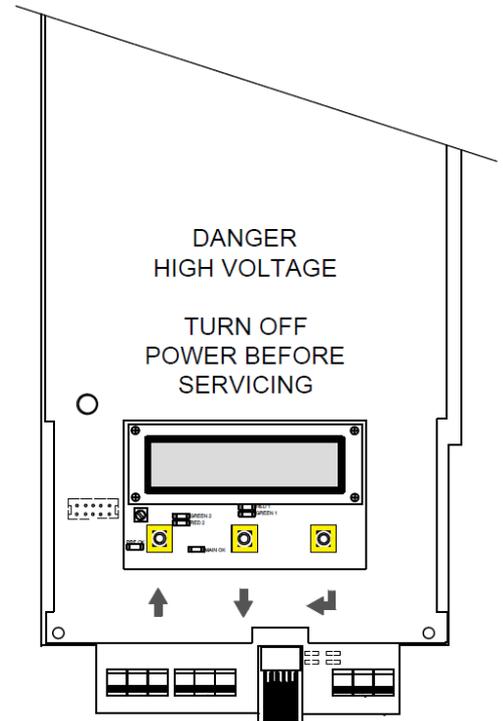
### 3.2. Installing the PCA

Check if the power sticker of the control PCA matches with the old one.

1. Connect the flat cable.
2. Connect the power wires **(1)**.
  - N = blue
  - L = black
  - PE = yellow / green.
3. Connect the pre **(4)** and main **(3)** alarm contact wires in the right order.
  - 1 = COM
  - 2 = NO
4. Connect the lamp wires in the right order on the add-on relay pcb **(A)**.
  - 1 = White
  - 2 = Yellow
  - 3 = Green
  - 4 = Brown
5. Mount the metal cover.  
(brackets add-on relay on top of the cover!)
6. Fixate the control PCA on the 4 pins with the 4 screws **(X)**.

### 3.3. Restoring the original settings

1. Press and hold the left and right button at the same time until password.
2. Use the password **1891** to enter the configuration menu.
3. Do this by pressing the button up/down for changing the number in the screen and confirm by pressing the Enter button.
4. Scroll to submenu **Modules** by using the UP or DOWN button.
5. Open the submenu Modules by pressing the ENTER button
6. Enable the applicable options
7. Press UP until the message **Temperature.**
8. Press the ENTER button to change the setting
9. Press UP to change to **YES.**
10. Press ENTER to confirm.
11. Scroll to **EXIT** and confirm with ENTER.
12. To exit the configuration menu, scroll with the UP or DOWN button to the screen exit and press ENTER.



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#### 4. Error codes new VR LD

The digits can show various errors. An overview of these errors and their meaning are given in below table.

<b>Error-code</b>	<b>Meaning</b>
ERR 1	End of lamp life -> replace the lamp
ERR 2	Lamp driver error -> check lamp driver and connection, check lamp connection
ERR 4	No lamp driver found -> Inspect modbus cable, check position modbus cable
ERR 6	Memory error-> contact supplier