

Control Unit EP-ELI-02

English



Dirección	Máquinas y Consumibles para Campos de Tiro. SL
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Versión	V2.0
Teléfono	
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Referencia	User guide

Máquinas y Consumibles para Campos de Tiro S.L. C/Rosales 28. 47155, Santovenia de Pisuerga. VA www.elicio.es / info@elicio.es	EP-ELI-02	
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GENERAL INFORMATION

The **EP-ELI-02** control unit is specially designed for the range of ELIMATIC helice machines and for pigeon discipline, in different versions. Of own design and development and equipped with a Progetti phonic group capable of managing up to 8 microphones

Main features:

- Internal speed control for Elimatic machines.
- Connection for coin reader and chip card
- Interface control for external referee.
- Interface connection via radio.
- Heavy-duty connectors.
- Active signalling microphone (LED lamps).
- Protected against interference, peripheral shots, metal noises made by the rifle, blows on the microphones, etc...
- Automatic NO-BIRD.
Machine testing. Allows to release all machines in sequence to test and adjust.
- Allows to display on screen the machine that will release next. Ideal for training and shooting classes
- Up to 8 microphones
- Internal counter of released propellers. Automatic storage of main configurations in case of power failure.


Technical specifications


- Input voltage: 110VAC 240VAC
- Supported frequency: 47Hz 63Hz
- Power consumption: 40W
- Output voltage: 12V DC 2 Amp
- Supported temperature: -5°C a + 55°C
- Internal protection: 1A fuse at the entrance.
- Automatic protection at 12VDC output.
- Lightning protection: varistors, transil.
- Dimensions of the console: 390 x 260 x 135 mm
- Total weight: 3.5kg



SET UP

To access the menu, put the key in ON position, press the RESET button and press the PAUSE/MENU button for 3 seconds until the menu access is displayed.

Use  to browse the menu.

Use  to access the settings

GENERAL OPTIONS

OK for entry

1.- COIN READER:

1.1- **NO** → Normal mode. Reader disabled

1.2- **YES** → Reader activated. Machines will reset when credits are finished. Does not return credit or repeat in case of NO BIRD if the shooter has already shoot. To access the general settings, the reader must be disabled

1.3- **COMPETITION MODE** → It only works with credits. It allows you to go back if the shooter has already shoot and return the credit. You can access the general settings

1.4- **CONTINUOUS MODE** → The coin reader deducts 1 credit for each helice run until the balance is downloaded

1.5- **CONTINUOUS COMPT MOD** → The coin readers deducts 1 credit for each helice thrown until the balance is downloaded. It allows you to go back if the shooter has already shoot and return the credit

2.- CONTRAST:

To adjust the screen brightness

3.- FAVORITE DISCIPLINE:

In the main menu only the selected discipline will be shown and does not allow access to other disciplines

Reset to return to MENU



HELICES OPTIONS

OK for entry

1.- HELICES THROWN:

Count all helice launched from the machines, including NO BIRD.

Press  to reset

2.- ACTIVATE MICRO BUTTON:

2.1- **NO** → Disabled. The shooter cannot start the machines from the mic button

2.2- **YES** → Activated (recommended) The shooter can start the machines from the micro button

3.- REARM AND RELEASE:

3.1- **NO** → When a NO BIRD occurs on the last helice of a shooter's round, the box will be reset but remain deactivated

3.2- **YES** → When a NO BIRD occurs on the last helice of a shooter's round, the box will open and remain deactivated

4.- HELICES PER COIN:

Displays the number of helice per credit. Configure using




5.- NO BIRD:

3.1- **NO** → Does not detect the shot. Always advance turn

3.2- **YES** → Detects the shot. If the shooter did not shoot, the machine that released the failed helice will be rearmed without any further action. In case the coin reader is activated, it will return the credit

EP-ELI-02 FOR HELICE

HELICES FITASC


1. Use  to set HELICES FITASC.



Press START or OK.

2. On the first display you can select the releasing mode:

- One by one (SIMPLE)
- Machines 2 - 4 simultaneously (DOUBLE)
- Machines 1 - 3 - 5 simultaneously (TRIPLE)

Use  to browse the options.



Press START or OK

3. In next step it is possible to enable or disable the delayed release according to FITASC rules (only for ELIMATIC45 12V FTS2020 machines equipped with electromagnet releasing)

Use to set.

Use to adjust the delay (go up or go down)



Press START or OK

4. In this step you can cancel any machine with the buttons 1, 2, 3, 4, 5. The cancelled machines disappear from the display.



Press START or OK

5. In this screen you can select between the options of COMPETITION or TRAINING

Use   set the option

In **TRAINING** mode, the next machine to release is displayed on the screen.

In **COMPETITION** mode the machine to release is hidden (RECOMMENDED)



Press START or OK

6. Select the reset cycle

AUTOMATIC RELOAD: From 1 to 5. Select the number of helice that you want to release before restarting the machines



MANUAL RELOAD: in this case, to reset the machines, press the button N°6 (REARM).



Press START or OK







7. This option allows to select a random speed for all 5 machines once they are in working. This means that the machines will launch at different speeds among themselves, in a changing and random way each time they start, between a speed range we have defined before

Use   to browse the menu to select the option.



Press START or OK

To define the random speed range, once "YES" has been selected, press OK to set the MINIMUM SPEED. When blinking, raise or lower speed using  



Press OK to set the MAXIMUM SPEED. When blinking, raise or lower speed using  

Press OK again to set



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HELICES FEDECAT



1. Use   to set HELICES FEDECAT.



Press START or OK

2. On the first display you can select the releasing mode:

- One by one (SIMPLE)
- Machines 2 - 4 simultaneously (DOUBLE)
- Machines 1 - 3 - 5 simultaneously (TRIPLE)

Use   to browse the options.



Press START or OK

3. In this step you can cancel any machine with the buttons 1, 2, 3, 4, 5. The cancelled machines disappear from the display.



Press START or OK

4. In this screen you can select between the options of COMPETITION or TRAINING

Use   to set the option

In **TRAINING** mode, the next machine to release is displayed on the screen.

In **COMPETITION** mode the machine to release is hidden (RECOMMENDED)



Press START or OK



5. Select the reset cycle



AUTOMATIC RELOAD: From 1 to 5. Select the number of helice that you want to release before restarting the machines

MANUAL RELOAD: in this case, to reset the machines, press the button N°6 (REARM).





Press START or OK



6. This option allows to select a random speed for all 5 machines once they are in working. This means that the machines will launch at different speeds among themselves, in a changing and random way each time they start, between a speed range we have defined before

Use   to browse the menu to select the option.



Press START or OK

To define the random speed range, once "YES" has been selected, press OK to set the MINIMUM SPEED. When blinking, raise or lower speed using  

Press OK to set the MAXIMUM SPEED. When blinking, raise or lower speed using  

Press OK again to set



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HELICES USHA


1. Use  to set HELICES USA.



Press START or OK.

2. On the first display you can select the releasing mode:

- One by one (SIMPLE)
- Machines 2 - 4 simultaneously (DOUBLE)
- Machines 1 - 3 - 5 simultaneously (TRIPLE)

Use  to browse the options.



Press START or OK



3. In next step it is possible to enable or disable the delayed release according to FITASC rules (only for ELIMATIC45 12V FTS2020 machines equipped with electromagnet releasing)

Use to set.

Use to adjust the delay (go up or go down)



Press START or OK

4. In this step you can cancel any machine with the buttons 1, 2, 3, 4, 5. The cancelled machines disappear from the display.



Press START or OK

5. In this screen you can select between the options of COMPETITION or TRAINING

Use   set the option

In **TRAINING** mode, the next machine to release is displayed on the screen.

In **COMPETITION** mode the machine to release is hidden (RECOMMENDED)



Press START or OK

6. Select the reset cycle

AUTOMATIC RELOAD: From 1 to 5. Select the number of helice that you want to release before restarting the machines



MANUAL RELOAD: in this case, to reset the machines, press the button N°6 (REARM).



Press START or OK







7. This option allows to select a random speed for all 5 machines once they are in working. This means that the machines will launch at different speeds among themselves, in a changing and random way each time they start, between a speed range we have defined before

Use   to browse the menu to select the option.



Press START or OK

To define the random speed range, once "YES" has been selected, press OK to set the MINIMUM SPEED. When blinking, raise or lower speed using  

Press OK to set the MAXIMUM SPEED. When blinking, raise or lower speed using  

Press OK again to set







We are now on the main screen. The microphone light will start flashing.

11.1 To start shooting, press the microphone button and wait for the light to stay in a fixed position. Once fixed, call "PULL" to release a machine randomly.

In the HELICES USHA, until all 5 machines are charged and ready to release, the microphone light will not start flashing

11.2 Using   with the key in ON position, you can increase or decrease speed. If the key is in the OFF position, a lock appears on the top right of the display indicating that the speed control is locked.

11.3 Using buttons 1, 2, 3, 4, 5 it can rearm each machine individually. With the button 6 all machines can be rearmed at the same time.

11.4 PAUSE button it can stop the machines and they will not obey any command until press START button.

11.5 RESET button restart the system and return to the main menu.

11.6 With the MICROPHONE/SENSITIVITY control you can adjust the sensitivity of the microphone.

11.7 The leds above the numbers 1, 2, 3, 4, 5 indicate the status of each machine:

- LED ON: machine ready to release
- LED OFF: machine loading helice or off.



EP-ELI-02 FOR PIGEON. QUICK USE


1. Using   choose the discipline.

2. Press START or OK.

3. Select number of boxes:

• 5 boxes

• 9 Boxes

Using   browse the options menu.

4. Press START or OK.

5. In this step you can cancel any machine with the buttons 1, 2, 3, 4, 5. The cancelled machines disappear from the display.

6. Pulsar la tecla START o la tecla OK.

7. In the next step you can select the release mode. **Normal** (One by one,) **Doubles** (machines 2 - 4 simultaneous or machines 3 – 7 in 9 boxes mode), **Double random**, **Triple** (machines 1 – 3 - 5 simultaneous or machines 1-5-9 in 9 boxes mode) or **Triple random**. Con las flechas arriba o abajo nos moveremos entre las distintas opciones.

8. Press START or OK.

9. In this screen you can select between the options of COMPETITION or TRAINING

Use   to set the option

In **TRAINING** mode, the next box to release is displayed on the screen.

In **COMPETITION** mode the box to release is hidden (RECOMMENDED)

10. Press START or OK.

11. In this screen we can select whether we want the recharge to be automatic or manual.

Use   to set the option

In **MANUAL** mode, have to press button 6 or the yellow button of the puller handset every time to rearm the boxes.

12. Press START or OK.



13. Next, we can select the number of boxes for each shooter. Only appears in case of selecting "AUTOMATIC RECHARGE".

PIGEON PER SHOOTER: From 1 to 5 in 5 BOXES mode or from 1 to 9 in 9 BOXES mode. Select number of pigeons before the rearming of the boxes

14. Press START or OK.

15. We are now on the main screen. The microphone light will start flashing.

15.1 To start pulling in puller-free mode, press the microphone button or pedal and wait for the light to stay in a fixed position. Once fixed, call "PULL" to release a random box

15.2 PAUSE button it can stop the machines and they will not obey any command until press START button.

15.3 RESET button restart the system and return to the main menu.

15.4 With the MICROPHONE/SENSITIVITY control you can adjust the sensitivity of the microphone.

15.5 To release any box press the button with its corresponding number. In case of 9 boxes, releasing as follows:

box 6 press START +1

box 7 START + 2

box 8 START + 3

box 9 START + 4.

To rearm the boxes, press the numbered button again or the 6 button for rearms all of them.

SETTINGS MENU

To enter the PROGRAMMING MENU, with the key in position ON, press RESET and then hold the PAUSE/MENU button for 3 seconds

Use  to browse the options menu


Use  to access settings

GENERAL OPTIONS (OK for entry)

1.- COIN READER:

1.1- **NO**: Disabled


1.2- **YES**: Enabled. When runs out of credits, the boxes will be rearmed. Doesn't returns credits and doesn't repeat in case of NO BIRD if the shooter has already shot
The coin reader must be disabled to modify the settings

1.3- **COMPETITION MODE**: Only can be used with credits. Allows to rearm the box in case of NO BIRD pressing . It is also possible to access and modify the settings.



1.4- **CONTINUED MODE:** Using chip cards, allows to shoot while the card is inserted, deducting credits until remove the card or the card is run out credit. Doesn't

returns credits and doesn't repeat in case of NO BIRD if the shooter has already shot

1.5- **CONTINUED COMP. MOD:** Using chip cards, allows to shoot while the card is inserted, deducting credits until remove the card or the card is run out credit Allows to rearm the box in case of NO BIRD pressing 

2.- **CONTRAST:**

Adjustment of the screen contrast.

3.- **FAVORITE DISCIPLINE:**

The main menu will only show the selected discipline and does not allow access to any other disciplines

Reset to return to MAIN MENU

PIGEON OPTIONS (OK for entry)

1.- **PIGEON THROWN:**

Counts all the pigeons thrown, even the NO BIRD. Press  to reset the counter

2.- **KIND OFR BOX:**

2.1- **AUTO. RECHARGE 2:** For double-lane boxes, independents, for opening and closing signal

2.2- **AUTO. RECHARGE. 1:** For boxes with a single shared lane both for opening signal as closing signal

2.3- **MANUAL RECHARGE:** For boxes with manual closing

3.- **TYPE OF MICROPHONE:**

3.1- **AUTOMATIC:** The microphone is activated and ready for the call once pressed the built-in LED button. No need for the Puller

3.2- **WITH PULLER:** The Puller manages the opening of boxes, operating a handset

4.- **PIGEON IMPULSE:**

Determines the duration of the release signal

5.- **PIGEONS PER COIN**

Number of pigeons for each credit entered

6.- **NO BIRD PIGEON:**

3.1- **NO:** Does not detect the shot. Always moves forward without repeating

3.2- **YES:** Detects the shot. If the shooter has not shoot but the pigeon's exit is failed, the box will be automatically re-armed.

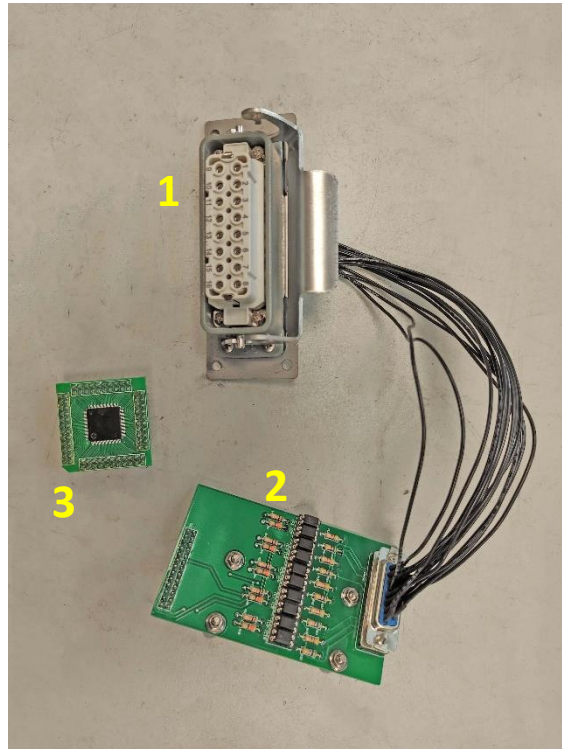
ANNEX I. PROCEDURE FOR UPDATING EP-ELI-02 CONTROL UNIT

PRIOR TO JANUARY 2021

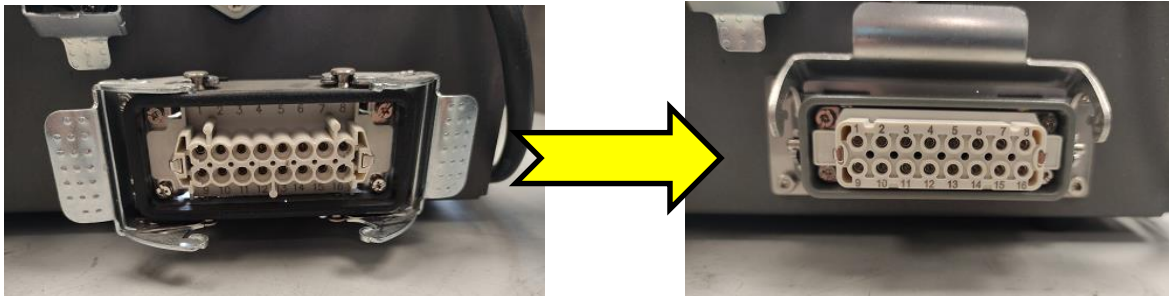
(to use with machines updated to 2021 version)

KIT REQUIRED

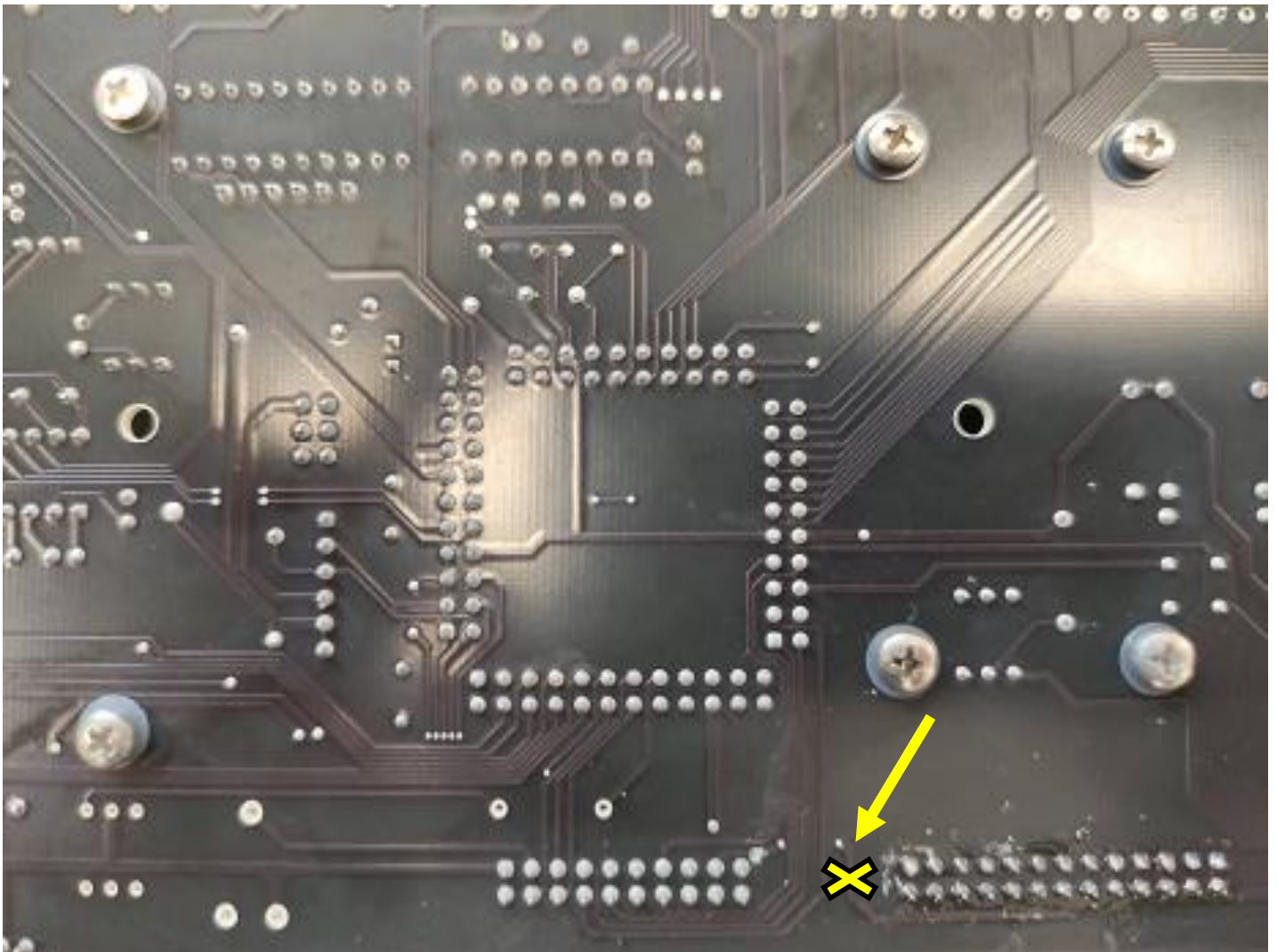
1. Connector
2. Board
3. Chip



- 1- Open the top cover
- 2- Change the old connector. No need to remove cables. Can be kept hidden inside the console itself

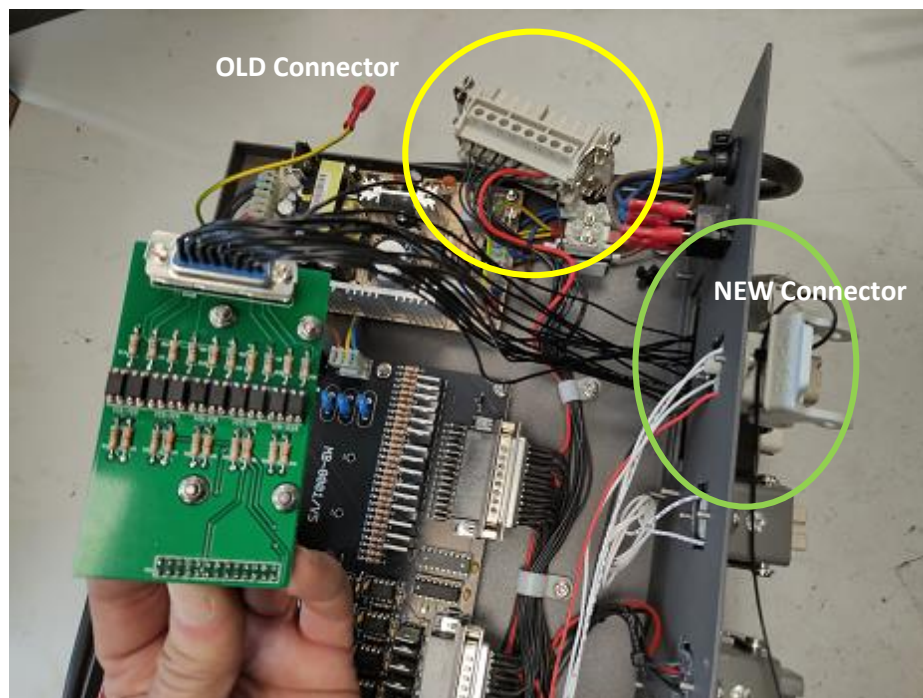
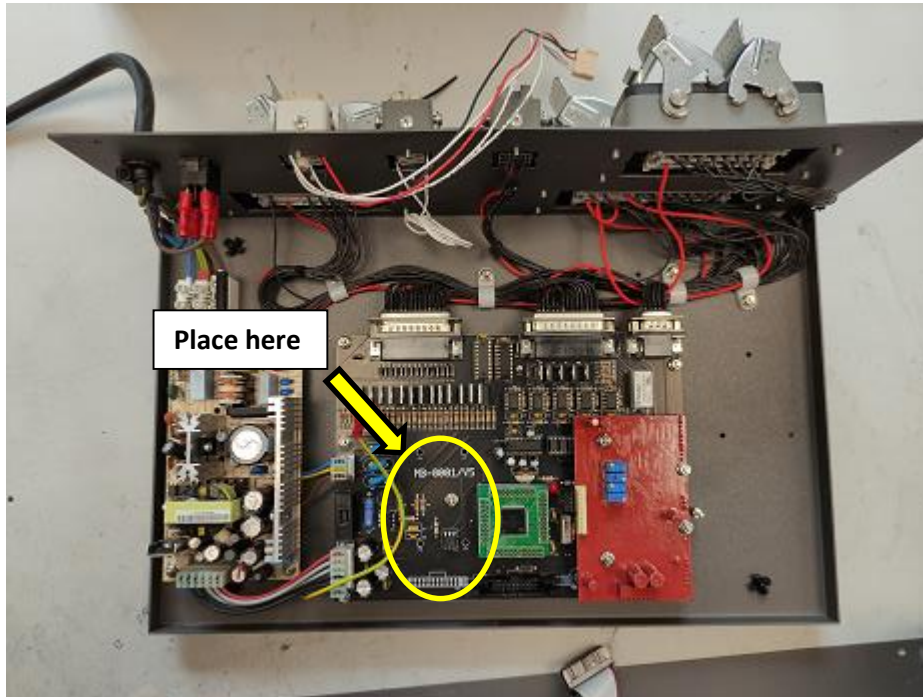


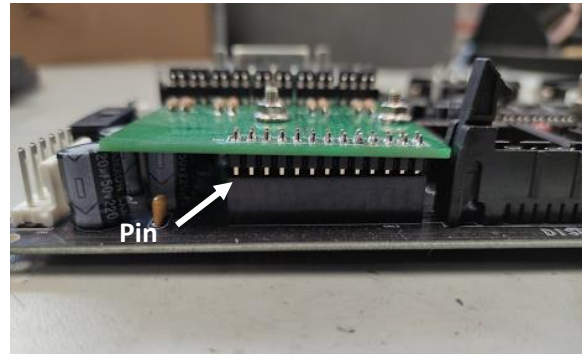
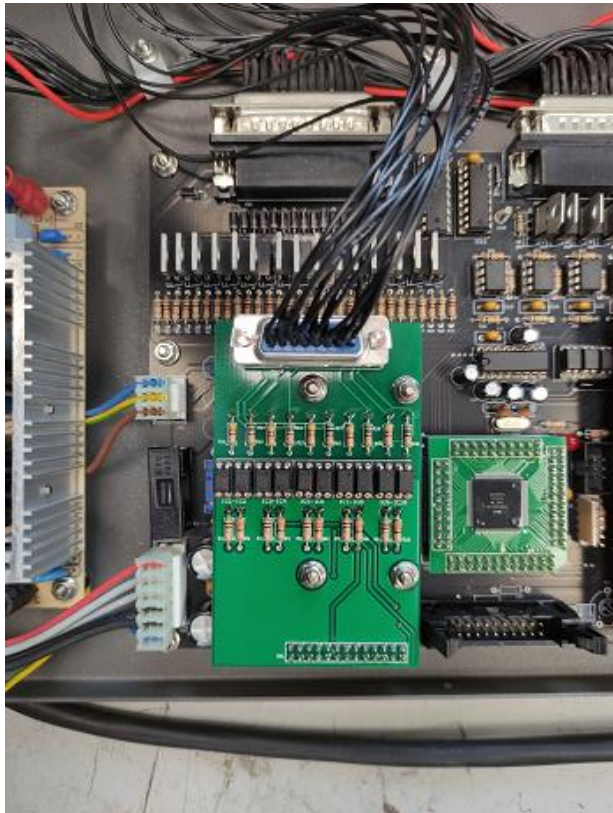
3- Remove the control unit board (black) and, on the back, cut the continuity of the printed circuit marked in the following image



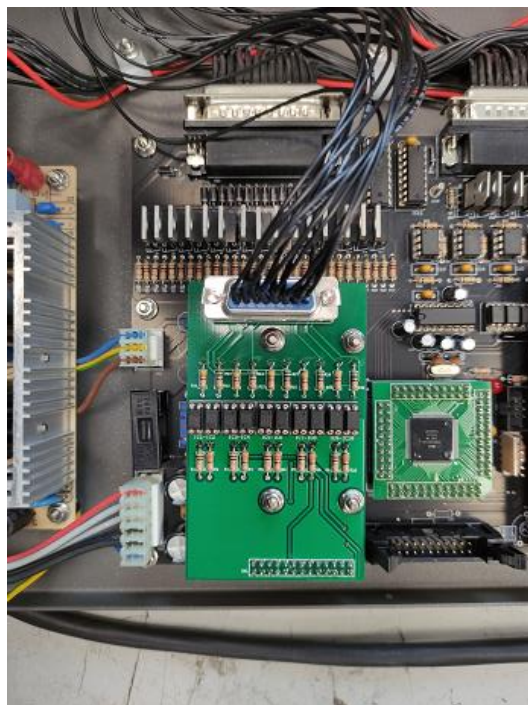
Reposition the board

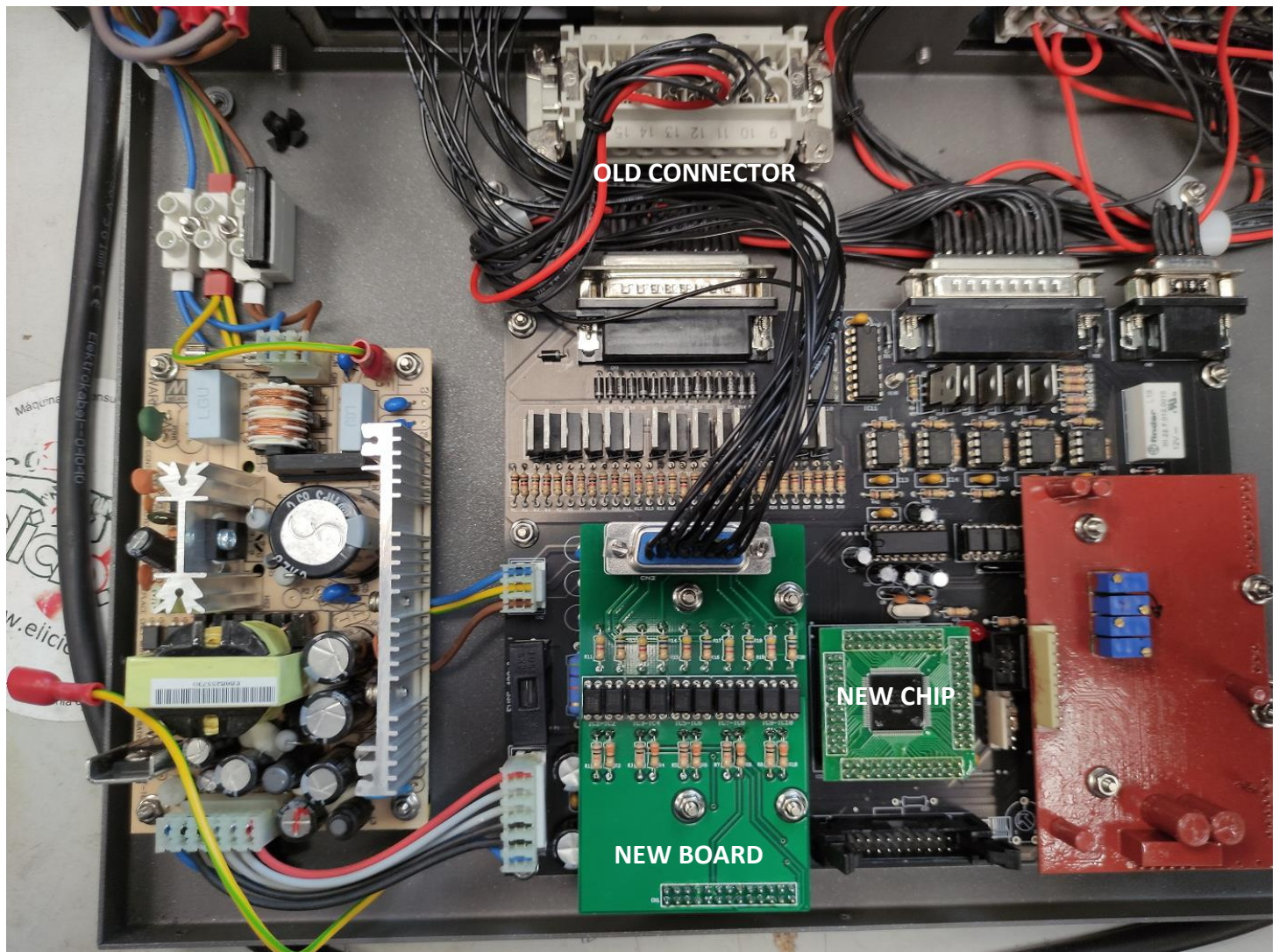
3- Connect the upgrade board supplied to the main board



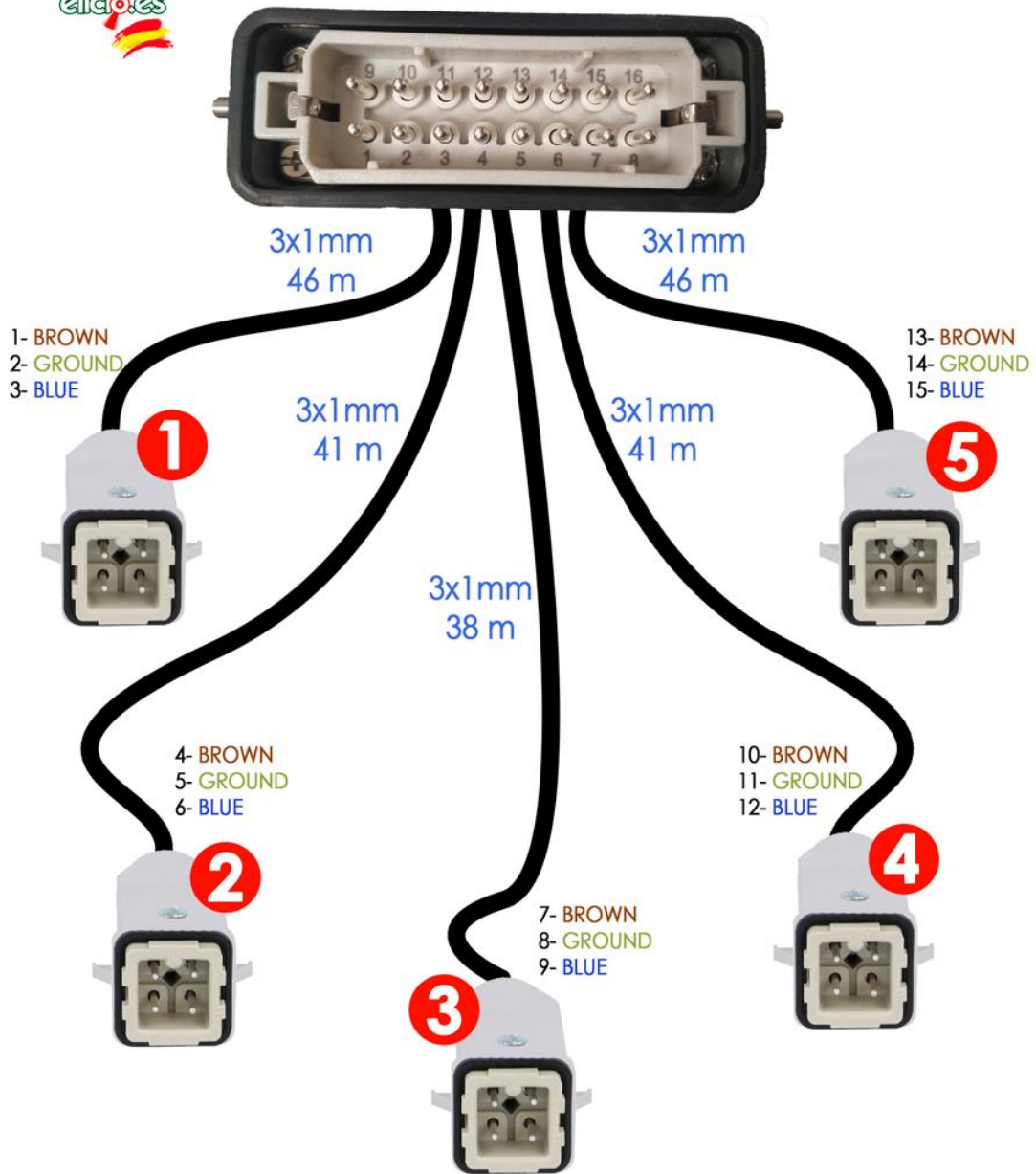


5- Check and close the cover





HÉLICES WIRING CONEXIONS SCHEME updated 2020



SAME FOR ALL HARTING CONECTORS

1- BROWN
2- GROUND
3- BLUE
⊕ -NC