

# CR-400 HANDBOOK

## Easel for restoration works



10.2. WOODEN STRUCTURE  
10.3. SAFETY PARTS  
11. PRODUCT DISPOSAL AND WITHDRAWING

**Warning**

These handling instructions must be considered as a documentation paper for both the distributor and the final user of this product.

# INDEX

- 1 IDENTIFICATION DATA**
  - 1.1. PRODUCT MANUFACTURER
  - 1.2. CUSTOMER
  - 1.3. MACHINE
- 2 TECHNICAL AND DESCRIBING DATA**
  - 2.1. PRODUCT DIMENSIONS
  - 2.2. DANGER-ZONE DIMENSIONS
  - 2.3. TECHNICAL DATA
- 3 NORMATIVE REFERENCES**
  - 3.1. EUROPEAN COMMUNITY DIRECTIVES
  - 3.2. HARMONIZED SPECIFICATIONS
- 4 HANDLING**
  - 4.1. EXPECTED USE
  - 4.2. HANDLING PURSUANT TO THE EXPECTED USE
  - 4.3. HANDLING NOT PURSUANT TO THE EXPECTED USE
- 5 GENERAL SAFETY CONDITIONS**
  - 5.1. WHO IS ALLOWED TO USE THIS MACHINE
  - 5.2. SAFETY WARNINGS
  - 5.3. DANGEROUS ZONE
- 6 LIABILITY**
- 7 INSTALLATION**
  - 7.1. ASSUMPTION
  - 7.2. COMPONENTS LIST
  - 7.3. ASSEMBLING INSTRUCTIONS
- 8 TRIAL STROKE**
- 9 PRODUCT DURABILITY**
- 10 MAINTENANCE**
  - 10.1. TELESCOPIC CENTERPIECE AND TILTING ENGINES
  - 10.2. WOODEN STRUCTURE
  - 10.3. SAFETY PARTS
- 11 PRODUCT DISPOSAL AND WITHDRAWING**

**1. IDENTIFICATION DATA:**

1.1. Product manufacturer:

**CAPPELLETTO**

**Via Marghera 9, 31033**

**Castelfranco Veneto (TV), ITALY**

1.2. Customer:

1.3. Machine:

**EASEL FOR RESTORATION WORKS CR-400**

**2. TECHNICAL AND DESCRIBING DATA:****2.1. Product dimensions****2.1.1. Machine volume**

Height: 450 cm

Depth: 150 cm

Width: 200 cm

**2.1.2. Minimum installation measures**

Height: 450 cm

Depth: 300 cm

Width: 600 cm

**2.2. Danger zone dimensions**

Depth: 250 cm starting from the back side of the easel

Width: 600 cm (300 cm left and 300 cm right from the central telescopic centerpiece)

**2.3. Product technical data**

Maximum load capacity: 75 kg \ 250 Kg

Maximum canvas or panel dimensions supported: 230 cm x 400 cm

Maximum back tilting: 10°

Maximum front tilting: 4°

Least distance from the floor: 10 cm

Maximum distance from the floor: 130 cm

Electrical device power: 230 V, 50 Hz \ 110 V, 60 Hz

**2.3.1. Telescopic centerpiece technical data**

Type / model: RKMultilift Standard o Synchro  
Raising stroke: 1200 mm  
Electrical voltage: 24 V DC - 32 V  
Protection typology: IP 20  
Shifting speed ad F max.: 8 mm/s 16 mm/s  
Max. raising power: 3000 N 1000 N  
Max. power absorption: 5 A  
Insertion rate: 10% a 20 min  
Max absorbed power.: 120 W  
Working temperature: from - 20° C to a +60° C  
(Static) torque sollicitation: 230 Nm

**2.3.2. Technical data for tilting arms**

Type \ model: MULTITRAXX  
Actuator typology: single  
Protection class: III  
Protection level: IP 20  
Voltage: 24 V DC  
Operating mode: Intermittent working 2/18 min. or insertion rate 10%  
Load Typology: thrust / traction  
Stroke: 200 mm  
Power 4000 N  
Wheelbase (B): 157 mm

### 3. **NORMATIVE REFERENCES**

#### 3.1. **European Community Directives**

##### **EC Conformity Statement**

We state the product compliance with both the EC Directive on the electromagnetic compatibility, (89/336/CEE) and the EC Directive on low voltage (73/23/CEE).

#### 3.2. **Harmonized specifications**

The product manufacturing complies with the following specifications:

**DIN EN 60335-1 A12: 1996** Safety of electrical devices to be used for home needs and similar use; part 1, general requirements

**EN 61000-3-2 + A12** Electromagnetic compatibility, part 3: allowed values

**EN 61000-3-3** Electromagnetic compatibility, part 3: allowed values for voltage variations and flickering in low tension systems for devices with input power lower than a 16 A.

The normative updating to the last level is covered by the quality statement in compliance with the DIN/ISO 9001 rules.

### 4. **HANDLING**

#### 4.1. **Expected use**

The restoring-works easel CR-400 is mainly conceived for both indoor professional activities and indoor hobbies

##### 4.1.1. **Needed features for the installation place**

Humidity: 12% - 70%

Temperature: -20°C +60°C

☞ Saline atmosphere

##### 4.1.2. **Places with ATEX explosion risks**

The CR-400 easel can't be used in ATEX places

##### 4.1.3. **Places with fire risk**

The CR-400 easel can be used in places with fire risk

##### 4.1.4. **Indoor and outdoor places**

The CR-400 easel can't be used in outdoor places

The CR-400 easel must be installed in indoor places

The European CE certification is effective only for indoor use

#### 4.2. Handling pursuant to the expected use

The restoring-works easel CR-400 must be used only for the allowed purposes or similar activities. Each use of this article depends on the environmental conditions of the place it is located.

#### 4.3. Handling not pursuant to the expected use

In case of handling not pursuant to the expected use, and in case of treatment by not trained staff, this easel may be dangerous for the users. In this case the company responsibility will cease and the general operating permission granted will be lost.

### 5. GENERAL SAFETY CONDITIONS

#### 5.1. Who is allowed to use this restoring-works easel

Anybody who read and understood this handbook and is at least 18 years old. The skills to handle this kind of easel must be clearly defined and observed.

#### 5.2. Safety warnings

This restoring-works easel has been manufactured according to the current knowledge in technique and to the effective safety regulations. Anyway it may cause dangers for both people and objects in case of improper handling or use for not allowed purposes or in case of safety rules violation.

A qualified managing and a scrupulous maintenance of this article assure its high performances. This considering, we suggest to take care of the following instructions.

#### PLS. NOTE

**Each person intervening in the installation, the handling or the maintenance of the restoring-works easel must have read and understood this handbook.**

#### This means the following:

- you must have understood the worded safety warnings.
- you must know and be aware of the handling manoeuvres to be possibly took
- the handling manoeuvres for this article must be exclusively took by the regarding staff obeying the current instructions. For this reason is absolutely needed to keep this handbook in a sheltered place nearby the easel so to be reached in a short time.

The general, national and company safety normative must be obeyed.

The using skills for the easel managing must be fixed and obeyed in a univocal way so to make the easel manoeuvres clear and avoid any misunderstanding.

Before using the easel each user must be sure that neither anybody or anything is close to the easel dangerous area, what is to say that neither anybody or anything can be close to the easel and the supported object while used.

The user must handle the machine standing at least 1 m. far from both the easel perimeter and the supported object (what is to say that he has to stay outside the dangerous area).

In case of violation of this main safety standard, the user may incur a residual risk of being trapped thus the machine is conceived to minimize this kind of problem due to the low speed of the moving parts.

The user must handle the machine if only he is in a good condition. Whatever variation in the user health must be reported to the regarding superiors.

### **5.3. Dangerous area**

The dangerous area can be defined as the space having a basis equal to the dangerous zone dimensions (par 2.2.) and the regarding height equal to the maximum height the machine can reach (par 2.1.1.)

In this case the dangerous zone as a volume of 600 x 250 x 450 cm.

#### **WARNING**

**Due to safety reasons, it's not allowed to take the initiative to make changes on the machine or decide for the machine restoration**

## **6 LIABILITY**

In case of manufacturing changes made by third party or changes in the safety disposals on this easel, as in case of electrical devices changing regarding the control and regulation systems, the CAPPLETTO LTD Company will not undertake the concerning liability, while the conformity statement will be lose its validity.

For machine repairing and maintenance it's allowed the only use of original spare parts.

The CAPPLETTO LTD Company will not undertake any liability for not tested or not homologated spare parts

The good condition and the completeness of all the relevant safety devices must be regularly checked at least once a year.

The Improper use of this restoring-works easel implies the EC Conformity Statement termination.

We attach great importance to the caution in outdoor use: actually, the easel use in outdoor places may be dangerous for people, things and animals.





CAPPLETTO LTD will not undertake any liability for improper use.

We reserve the right to make technical changes on the product.

**7 INSTALLATION****7.1. Assumption**

The customer must assure the easel not to be plugged until it is completely assembled complying with the following instructions.

**7.2. Components List****COMPONENTS LIST FOR CR-400****Electrical part**

Quantity	Component name	Description	Picture
1	E1	Lifting column	
2	E2	Tilting engine	
1	E3	Junction box	
1	E5	Remote control switch	















COMPONENTS LIST FOR CR-400

Ironmonger part

Quantity	Component name	Description	Picture
4	F1	Half-embedded round-headed screw 140 x 8 mm	
4	F2	Flaring allen screw 90 x 8 mm	
8	F3	Flaring allen screw 50 x 8 mm	
4	F4	Flaring allen screw 20 x 6 mm	
4	F5	Allen screw	
4	F6	Auto-threading screw	
4	F7	Flaring allen screw 100 x 8 mm	
2	F8	Pin	
2	F9	Safety pin	
8	F10	Washer	
8	F11	Screw nut	
2	F12	Hanger	
2	F13	Square-headed screw 55 x 8 mm	
0	F14	Sleeve (OPTIONAL)	

## COMPONENTS LIST FOR CR-400

## Wooden parts

Quantity	Component name	Description	Picture
2	L1	External skirting board	
1	L2	Internal right skirting board	
1	L3	Internal left skirting board	
1	L4	Basis cross part Length: 125 cm	
2	L5	Tilting arm	
1	L6	Right set side part	
1	L7	Left set side part	
1	L8	Right moving side part	
1	L9	Left moving side part	
1	L10	Upper cross part	
1	L11	Upper cross part	
1	L12	Upper cross part Length: 134 cm	
1	L13	Supporting cross part	
2	L16	Picture lock (Canvass holder)	
1	L17	Shelf	
1	L18	Pre assembled shelf and basis cross part	
1	L19	Protection panel	

## 7.2. Assembling instructions

### ASSEMBLING INSTRUCTIONS

The assembling process for the restoring-works easel CR-400 is divided into 4 phases

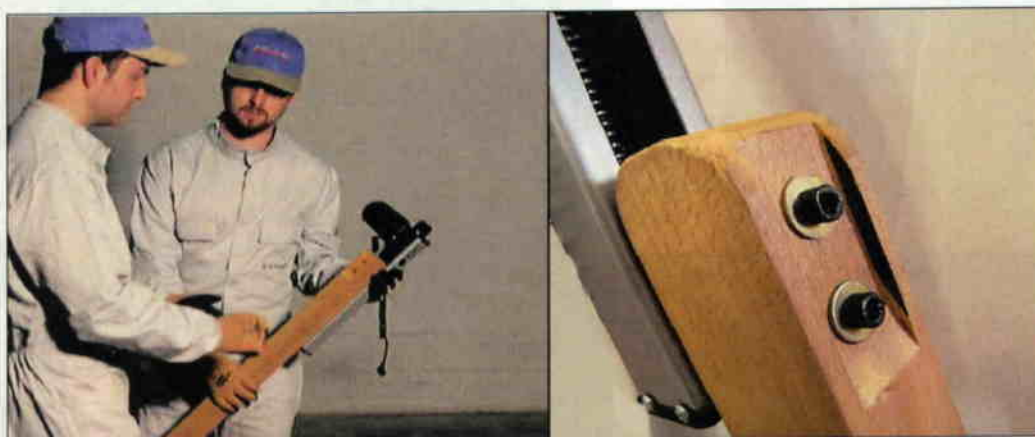
- 1) **Basis assembling**
- 2) **Centrepiece assembling**
- 3) **Junction of basis and centrepiece**
- 4) **Electrical linking**

#### Phase 1): Basis assembling

Join with **F3** screws the **L2 L3 L4** parts as in the following picture n. 1, making sure the joints to be coinciding. Properly tighten the screws.



Pre-assemble the two **L5** tilting arms with the regarding **E2** engines using the **F5** allen screws and the **F10** washers.

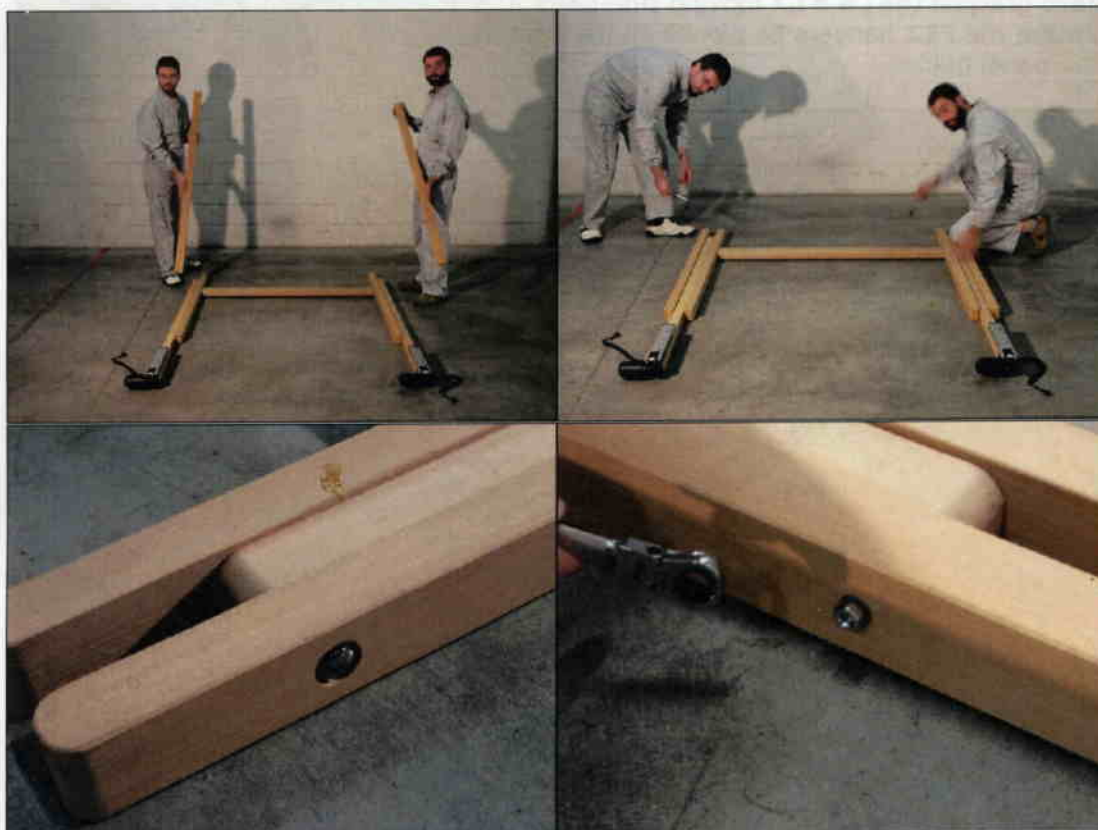


Position the engine blocks and the regarding tilting arms close to the internal **L2** and **L3** skirting boards making sure the engines to be turned up.



Put beside the two **L1** external skirting boards taking care the regarding holes to be coinciding with the ones on parts **L2** **L3** and **L4**.

Join these parts with the back extremity using two **F1** screws, two **F10** washers and two **F11** screw nuts; thread the screw from the external to the internal side while keeping the screw nut in the internal side. Tighten the screw nuts weakly.



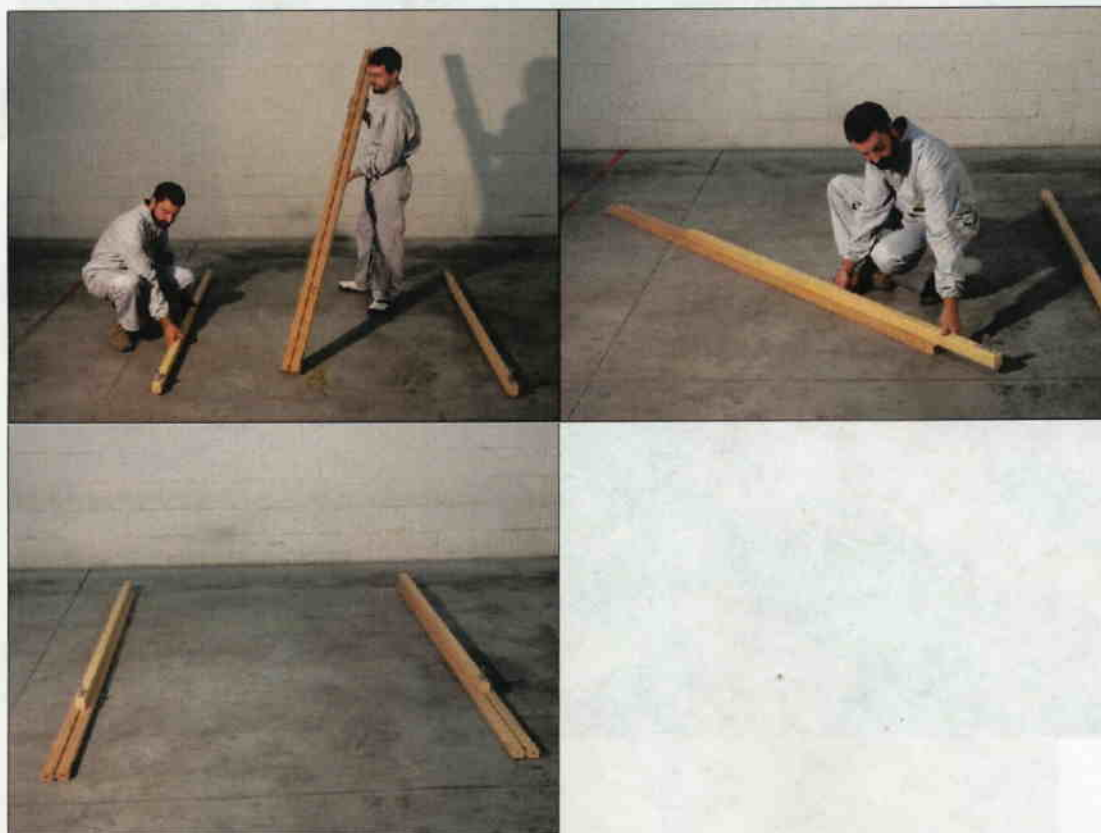
### Phase 2): Centrepiece assembling.

Take the **L6** and **L7** set side parts and put on the **F12** hangers placing them in the regarding holes by using the **F6** screws.



Place on the ground the **L8** e **L9** moving side-parts making sure the panel guides to be turned on the internal side and the hole-flaring of the supporting cross-part to be turned on the ground.

Once you have grasped the **L6** e **L7** moving side-parts, thread them in the **L8** e **L9** set side-parts so to make the **F12** hangers be placed on the opposite side from the **L6** e **L7** slits, which represent the panel guides.



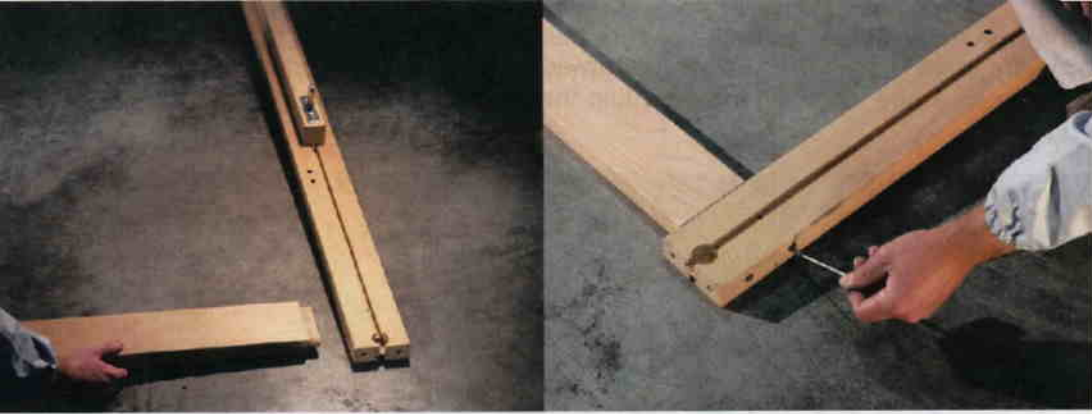
Position the pre-assembled sides as in the picture below and join them to only one of the **L17** shelf-group sides , making sure the shelf to be turned towards the ground and to be coinciding to the panel guide as in the following images. Join the regarding parts using **F3** screws and close them tightly.



In the same side where you fixed the shelf insert the **L11** upper cross-side making sure the sleeves to be turned towards the **F12** hangers and not towards the **L17** shelf. Close the **F3** screws tightly.



Then insert in the side the **L10** upper cross-side and fix it using the **F7** screws.



Position the **L13** supporting cross part as in the picture and join it to the side using the **F2** flaring allen screws, the **F10** washers, and the **F11** nuts.



Finally insert the last side and fix all the ironmonger parts as in the previous instructions. It's extremely important to check the final screw tightening as it has to be appropriate.



### 3): Junction of basis and centrepiece

It's quite recommended an easel raising as follows: starting from a kneeling position, grasp the easel as in the picture and then raise the centrepiece extending legs and holding upright so to preserve the user' back.

Grasping the moving side with one hand and the **L11** set cross-part with the other, set aside the centrepiece with the easel basis.

Keeping the same hands position, lift up the centrepiece and insert the regarding set-side jutting part between the skirting boards.



Put together the tilting arms and the **L6** and **L7** set side-parts, then centre the engine holes with the hangers holes, and insert the **F8** pins locking them with the **F9** safety pins.





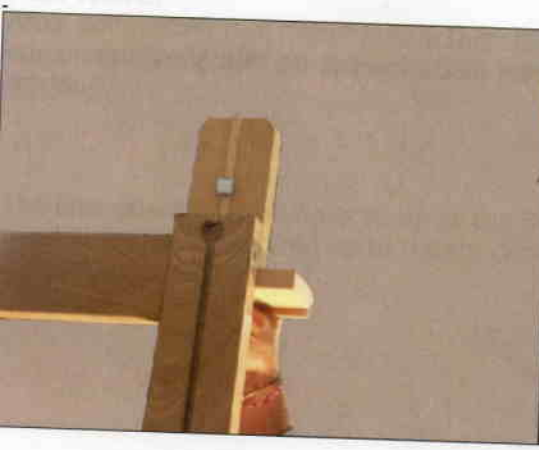
Take the **E1** tilting column and place it with the black lower box turned towards the tilting arms so to make the regarding holes coincide with the **L11** set cross-part ones. Join the **E1** column with the **L11** set cross-part using the **F3** screws. Properly tighten the screws.



Join the **E1** column with the **L13** supporting cross-part using the **F3** screws. At this step it may appear a little gap of about few millimetres between the column and the supporting cross-part. This gap may induce a difficult joining between the **F3** screws. For the definitive fixing see phase n. 4)



...lower upper part.



Insert from the front side the **L19** safety panel flexing it in the **L8** and **L9** regarding gu



Cables coming from the E2 fitting engine in (inserting into a pipe bracket)



Plug the E2 fitting column in the connecting socket. The junction box the V-box making sure all the cables coming from the junction box to be secured. The front rubber safety shields in the connecting space under the shell. The V-box parts to be fixed perfectly centered.

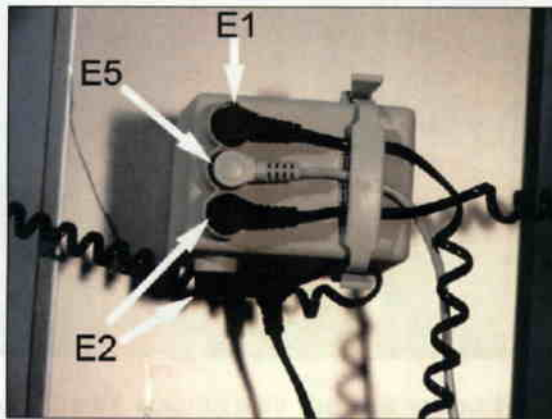


#### Phase 4): Electrical linking and safety rules.

Lodge firstly the **E3** junction box in the regarding support placed on the **E1** lifting column proceeding from right to left.  
Remove from the junction box the white fairlead.



Link the cables coming from the **E2** tilting engines to holes **1** and **4** located on the **E3** junction box (the inserting order is quite irrelevant).



Finally plug the **E1** lifting column in the remaining socket n. **3** located on the junction box. Insert the U-bolt making sure all the cables coming from the junction box to be pressed.

Place the foam rubber safety disposals in the regarding spaces under the shelf.  
Fasten the Velcro parts so to let them perfectly coincide.



Connect the plug to the electrical equipment.

**PLS. NOTE:**

After completing this phase a little time it's needed until the system recognizes the components and can work. Given this, don't worry if the remote control hasn't a prompt working.

**Warning!**

The first operation you have to do at the first use is the easel lifting for about some cm. while moving the lifting column so to tightly close the **F3** screws joining the **E1** column with the **L13** supporting cross part.

## 8 **TRIAL STROKE**

Before making the restoring easel work, test the concerning synchronism, with regards above all to the shifting movement to the top and to the tilting operations. For this reason put into action all the panel push-buttons. After each operation check the easel functioning so to detect any possible asymmetry in movements.

In case of anomalous functioning stop any operation and get in touch with the easel supplier.

The non-conformity to the described product handling produces the easel damaging! In this case the guarantee will immediately cease!

Considering the assembling position pay attention to both the crushing and the cutting points in order to make easier the following easel handling.

## 9 **PRODUCT DURABILITY**

In normal handling conditions and in compliance with the regarding normative, the product maximum lasting will be of 10 years.

In case of overcoming of the defined period, we suggest the prompt replacement of the product.

In case of environmental bad conditions, improper use or exceeding loading, the defined duration may shorten.

The guarantee and the guarantee requirements don't cover these events.

## 10 **MAINTENANCE.**

### 10.1. **Telescopic column and tilting engines**

Maintenance is not needed for the telescopic column and the tilting engines. Given this, anyway they are not wear-and-tear free, what is to say that the product safety may not be guaranteed in case of exceeding use or non-replacement of the easel parts needing it.

All the operations made by the lifting column and the tilting engines must be done in compliance with the defined instructions and regulations. The devices may be treated only by a skilled staff. In case of breakdowns we suggest to get in touch with the manufacturer or to send them to the maintenance centre.

#### **Wooden structure**

Maintenance is not needed for the wooden structure thus it can encounter the wear-and-tear process. This means that in case of exceeding use or non-replacement of the needing parts **after the duration period ending** the wooden structure may not be in compliance with the safety normative.

For this reason we suggest the use of the regarding 204 protection oil thus not needed. This oil will allow the wood feeding and protection and the improvement of the components shifting movements.

