



# Silver Mix

mixer

manuale d'istruzioni

user manual

bedienungsanleitung

manuel d'utilisation et entretien

manual de instrucciones

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## **I.O WARNS AND GENERAL CAUTIONS**

### **Warns**

This manual gives to the user all the information about installation, use and maintenance of the mixer “SILVER MIX”, as clear as possible. Before starting to use this machine read carefully all the information written in this manual; the knowledge of the given instructions is necessary to a right installation and to an appropriate use of the mixer. “SILVER MIX” is designed and constructed with mechanical and technical safeties to guard the user against physical damages. It is full responsibility of the buyer to make sure that all the users know the instructions of this manual. The best working of the machine is guaranteed only if original spare parts will be used; the user is fully responsible for modifications, optional and devices application if they are not mentioned in this manual. The producer is not responsible if damages will be caused by not appropriate use of the machine, not following these instructions.

### **General cautions**

- Before connecting electrical cable, make sure that voltage is the same that is written on the label. 10% Voltage variation (in addition or at least) can damage electrical parts.
- Always remove the main cable from the power outlet, before carrying out any kind of maintenance.
- This machinery has to be used only to vibrate dental capsules.
- To clean the mixer do not use corrosive or abrasive products, acids, or steel brushes.
- Do not wash the machine directly with water jet.
- The producer is not responsible if damages will be caused to persons or things if the machinery will not be used following these instructions.
- The producer is not responsible if damages will be caused to persons or things for modifications, optional and devices application that are not mentioned in this manual, in particular if they could modify the functioning of this machinery.

## 2.0 TECHNICAL CHARACTERISTICS

“SILVER MIX” is a dental mechanic-electric mixer which operates with a “eight” type vibration used for all type of amalgam capsules, composites and other dental materials. Thanks to the safety-cover and to the adjustable timer, every kind of dimensions and of type capsules can be vibrated.

DIMENSIONS (LxDxH):	mm 215 x 220 x 145
WEIGHT:	Kg 3,7
FEED:	230 V - 50 Hz $\pm$ 5%
ABSORBTION:	0,5 A - 70 Watt
ENVIRONMENT TEMPERATURE:	18 - 40 °C
RELEVANT DAMPNES:	90% with no environmental condense
MIXING FREQUENCY:	4.400 impulses/minute $\pm$ 5%
MIXING TIMES:	Freely adjustable from 1 to 99 seconds

## 3.0 INSTALLATION

- Place the mixer on a horizontal desk.
- Connect the mixer “SILVER MIX” to an earthen socket with 230 Volt - 50 Hz.
- Switch on “SILVER MIX” with the “**O - I**” button in the side of the device.
- Place the capsule in the capsule holder and close the safety lid completely.
- Adjust the mixing time from 1 to 99 seconds:
  - » Press the “**SET**” (Picture 1) button one time for adjustment in steps of 10 seconds each.
  - » Press the “**▲ and ▼**” (Picture 1) button to increase or decrease the mixing time by 10 seconds at a time.
  - » Press the “**SET**” button a second time for adjustment in steps of 1 second each.
  - » Press the “**▲ and ▼**” buttons to increase or decrease the mixing time by 1 second at a time.
  - » Press the “**SET**” button a third time to save the programmed mixing time.
- To start the mixing process press the “**START/STOP**” button (Picture 1).
- If you wish to stop the mixing process, press the “**START/STOP**” button at any time.
- For safety reasons the mixer only operates with the safety lid fully closed.

**Notice:**

At the end of the mixing time the mixer remains programmed with the last mixing time adjusted (even when the device is switched off or disconnected). By simply pressing the **“START/STOP”** button the mixing process is repeated.

Picture 1



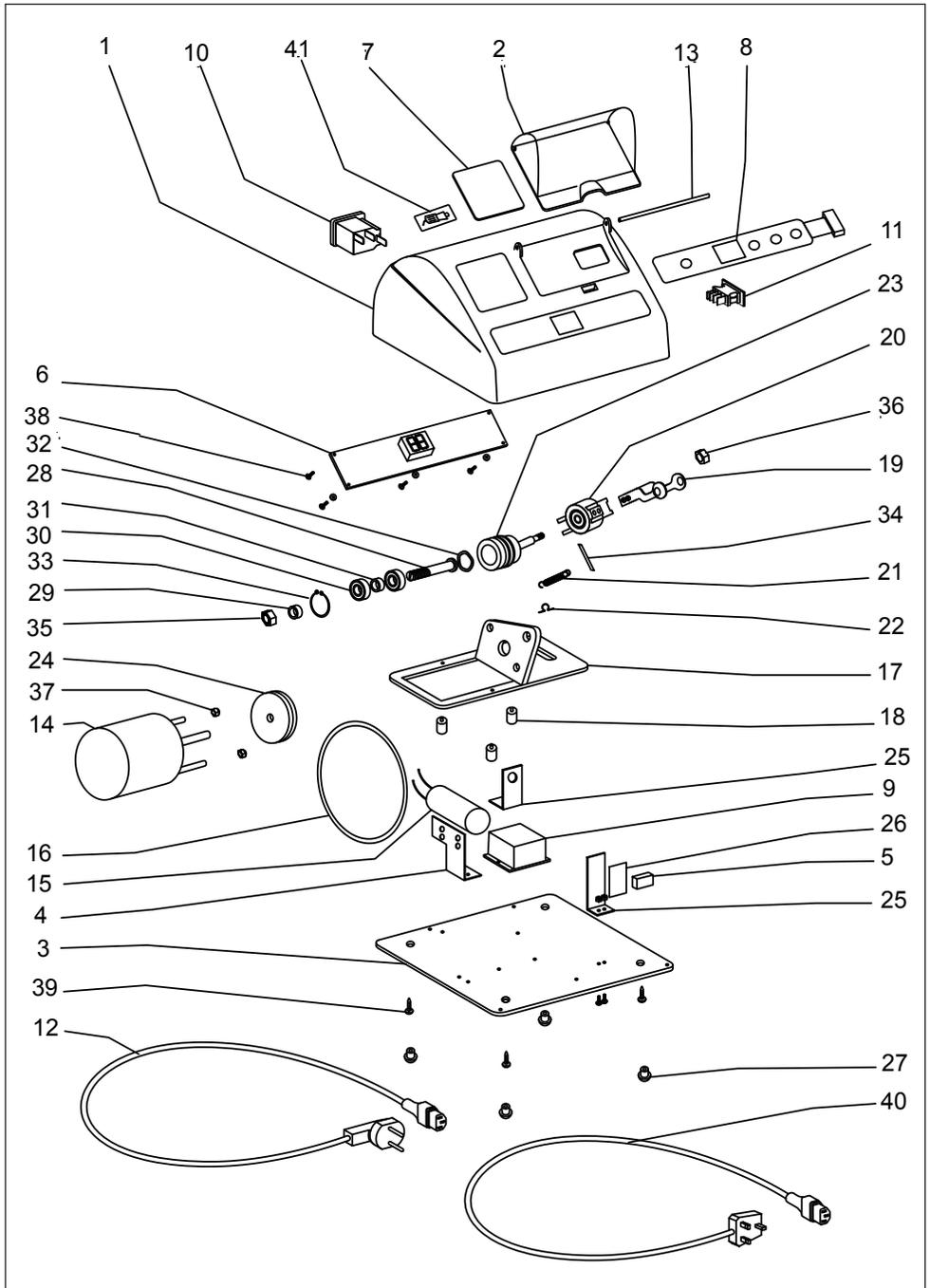
## 4.0 WORKING ANOMALIES

<b>PROBLEM</b>	<b>CAUSE</b>	<b>REMEDY</b>
The mixer does not power-on.	The main power cable is not plugged-in.	Plug it in.
	There is no voltage at the socket.	Check the cause of the lack of voltage at the socket and fix it.
	The main switch are on “O”.	Turn the switch on “I”.
	The main fuse is blown.	Replace with new fuse of same rating value.
The timer does not power-on.	The mixer is switch off.	Switch on the mixer.
	The timer is fault.	Replace the timer.
	The transformer is fault.	Replace the transformer.
The timer does not change the seconds.	The timer is fault.	Replace the timer.
The timer buttons do not work.	The timer is fault.	Replace the timer.
	The membrane keyboard is fault.	Replace the membrane keyboard.
The mixer does not work.	The timer is fault.	Replace the timer .
	The engine does not work.	Replace the engine.
	The safety cover is open or fault.	Close or replace the safety cover.
	The micro switch is fault.	Replace the micro switch.
The mixer mixes slowly.	The condenser is fault.	Replace the condenser.
	The engine is fault.	Replace the engine.
	The bearings are fault.	Replace the bearings.

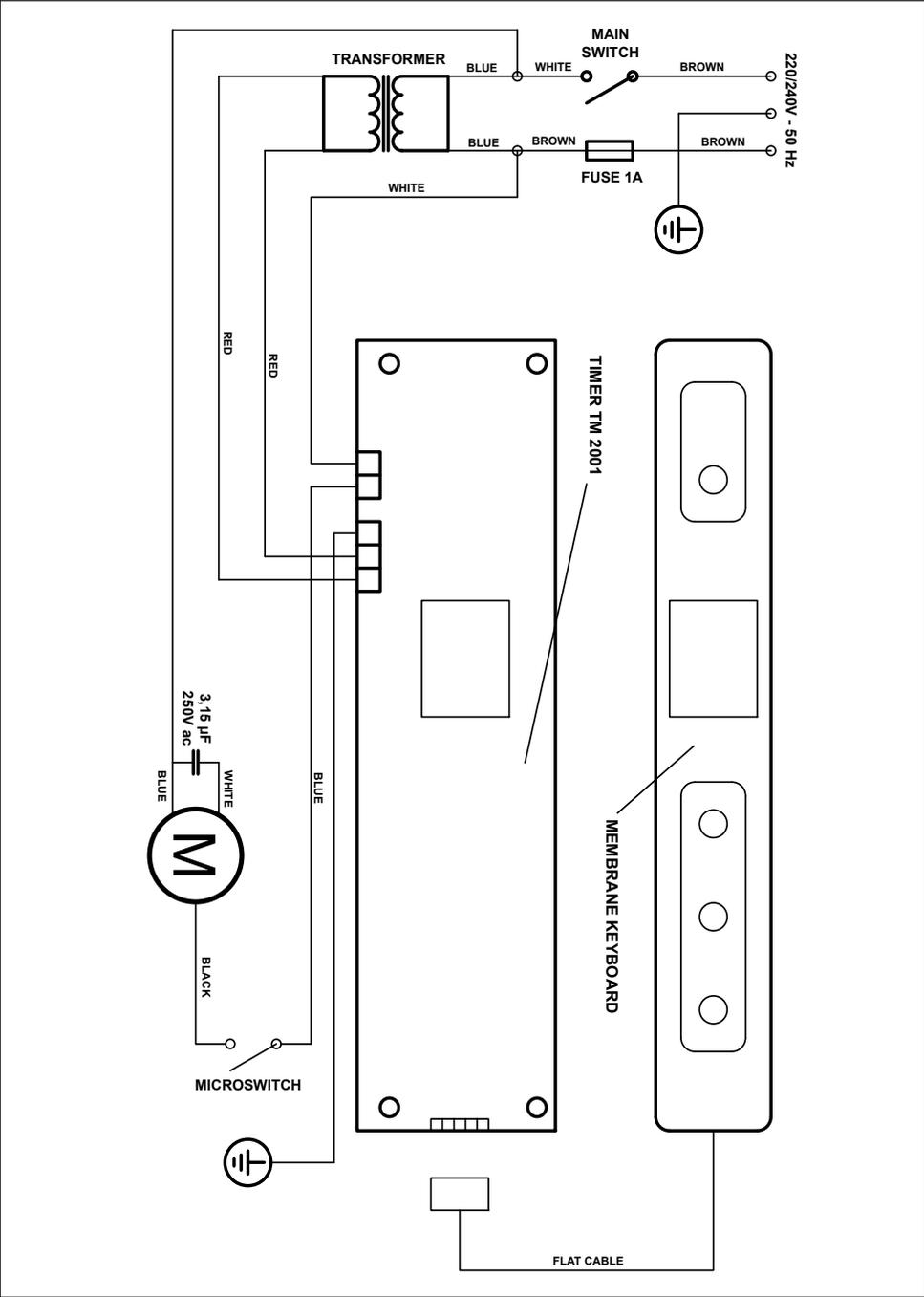
## 5.0 SPARE PARTS LIST

<b>POS.</b>	<b>ITEM CODE</b>	<b>DESCRIPTION</b>	<b>Q.TY</b>
1	16406-0000-1	ABS COVER	1
2	16406-0001-2	SAFETY COVER	1
3	16130-0003-0	BASE PLATE 3 mm THICKNESS	1
4	16140-0005-0	CONDENSER SUPPORT	1
5	4021-6000-02	MICRO SWITCH	1
6	15200-0000-1	TIMER	1
7	16136-0051-0	ADHESIVE LABEL SILVER MIX	1
8	16136-0009-1	MEMBRANE KEYBOARD	1
9	4021-6001-00	TRANSFORMER 230/12V	1
10	4021-6014-02	SOCKET WITH FUSE	1
11	4021-6014-01	SWITCH	1
12	4021-6015-11	SCHUKO POWER CABLE	1
13	16220-0000-0	STAINLESS STEEL PIVOT Ø 2X130	1
14	4021-6004-02	ENGINE 220V/50HZ	1
15	4021-6005-05	CONDENSER 3,15 µf	1
16	4021-6009-06	O-RING 164	2
17	15140-0000-0	ENGINE SUPPORT	1
18	4021-6006-00	ANTI-VIBRATING RUBBER M4	3
19	15140-0001-0	FORK'S GROUP	1
20	16141-0001-0	FORK'S SUPPORT	1
21	16910-0000-1	TRACTION SPRING	1
22	16210-0001-0	SPRING'S HOOK	1
23	16251-0000-1	ALUMINIUM CAM	1
24	16256-0004-0	DOUBLE PULLEY	1
25	16140-0006-0	MICRO SWITCH SUPPORT	2
26	16806-0000-0	MICRO SWITCH PROTECTION	1
27	4021-6007-00	SUPPORT TAG	4
28	16220-0001-0	BEARING'S PIVOT	1
29	16256-0000-0	SPACER 6,8 MM	1
30	4021-6008-01	BEARING 608	4
31	16256-0001-0	SPACER 4,8 MM	1
32	4021-6011-01	WAVY SPACER 0,3 mm THICKNESS D22	1
33	4021-6010-00	SEEGER D22	1
34	4021-6017-00	ROLL PIN Ø 4X16	1
35	4026-0003-00	SELF-LOCKING NUT M8	1
36	4026-0002-00	SELF-LOCKING NUT M6	1
37	4026-0001-00	SELF-LOCKING NUT M4	2
38	4026-0060-00	SCREW TC 3,5X6,5	5
39	4026-0060-01	SCREW TC 3,5X20	4
40	4021-6015-13	UK POWER CABLE	1
41	16136-0052-0	CAPSULE ADHESIVE LABEL	1

# 6.0 EXPLODED VIEW



# 7.0 ELECTRICAL DIAGRAM



## 8.0 DECLARATION OF CONFORMITY

### DECLARATION OF CONFORMITY

*EEC Directives 93/42 – 89/336 – 73/23*

EN

Name of manufacturer: Costruzioni Meccaniche Friulane - C.M.F. Srl  
Address of manufacturer: Via E.Ellero, 9 - 33080 Cusano di Zoppola (PN)  
Description: **MIXER**  
Model Device: **SILVER MIX**  
Manufactured in: ITALY

The undersigned hereby declares that the above mentioned device is:  
- classified as Class I medical device according to the MDD 93/42/EC  
- made in COMPLIANCE WITH the following EEC Directives:  
**93/42/CE - 89/336/CE - 73/23/CE**

Standards applied:

**UNI EN ISO 7488**

**EN 61010-1**

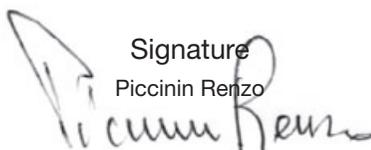
**HD 195S5**

**EN 60555-2, EN 55081-1, EN 55022, EN 50082-1, IEC 801-2, IEC 801-3,  
IEC 801-4.**

We also declare the CE marking upon the device.

Zoppola, 13<sup>th</sup> May 2010

Signature  
Piccinin Renzo





For an environmental responsible recycling/disposal of your product. Do not discard it with normal waste. The black line, under the crossed waste bin symbol, means that this product has been put in circulation after the 13.08.2005 (see 2002/96/EG and DIN EN 50419:2005). Please be aware that this product is submitted to the European Directive 2002/96/EC (WEEE) and the laws applicable in your country for the environmentally responsible recycling/disposal. Please ask your dealer or GC Europe when your product will have to be disposed off.



**costruzioni meccaniche friulane**

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