

DIP SWITCH SETTINGS (- = Irrelevant)	ON	OFF
DSW1 in main pcbboard 501335	configuration normal	enabled
DIP 1 - dental unit mode	disabled	enabled
DIP 2 - hot water outlet for spraying	-	-
DIP 3 - not used	-	-
DIP 4 - not used	-	-

#### ADJUSTMENTS

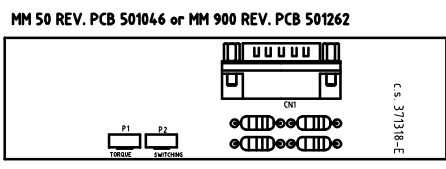
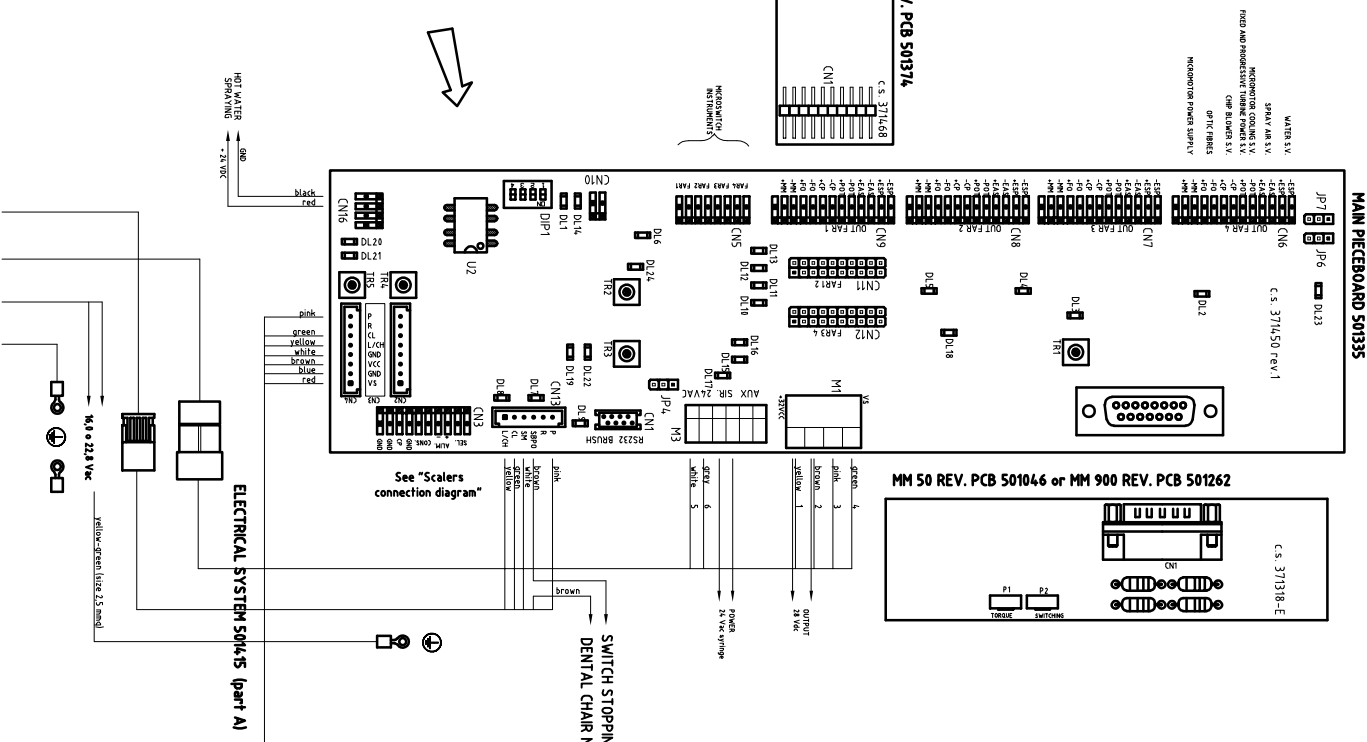
Main pcbboard 501335
TR1 Optic fibre light intensity
TR2 Minimum micromotor speed
TR3 Maximum micromotor speed (Max voltage scaler)
TR4 e TR5 Free
Micromotor pcbboard 50 rev. 501046 and 900 rev. 501262
P1 Analogy-to-digital switching
P2 Micromotor torque
Logic pcbboard 501344
TR1 Display contrast adjustment

#### WARNING SIGNS

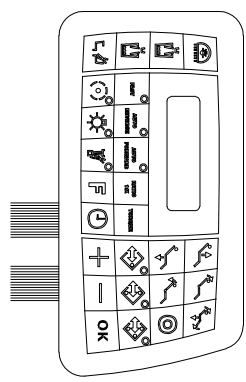
Main pcbboard 501335
DL1 Free
DL2 LED - enable delivery unit 4
DL3 LED - enable delivery unit 3
DL4 LED - enable delivery unit 2
DL5 LED - enable delivery unit 1
DL6 LED - enable optic fibre
DL7 LED - SBPO out
DL8 LED - enable tooth scaler out
DL9 LED - analog exchange MM or tooth scaler out
DL10 LED - inlet of delivery unit 4
DL11 LED - inlet of delivery unit 3
DL12 LED - inlet of delivery unit 2
DL13 LED - inlet of delivery unit 1
DL14 LED on during EEPROM re-initialization
DL15 LED - 28V's power on
DL16 LED - VCC 5V power on
DL17 LED - 24VAC2 power on
DL18 LED - enable optic fibre
DL19 LED in SBPO monitor
DL20 LED - reset for prog.
DL21 LED - press for prog.
DL22 LED in mot. safety dev.
DL23 LED - Invert MM out
DL24 LED - delivery unit interlock output

#### STORAGE DEVICE SETTINGS

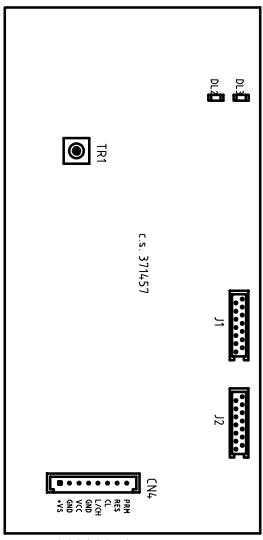
Main pcbboard 501335  
In case of replacement of the general pcbboard, move U2 in the new pcbboard to keep the settings made.



DISPLAYED ERRORS ARE DESCRIBED IN THE INSTRUCTION HANDBOOK



FOR INSTALLATION BRUSHLESS MICROMOTOR SEE DIAGRAM 520535  
MEMBRANE PLUS 37262 + PCEBOARD 501368



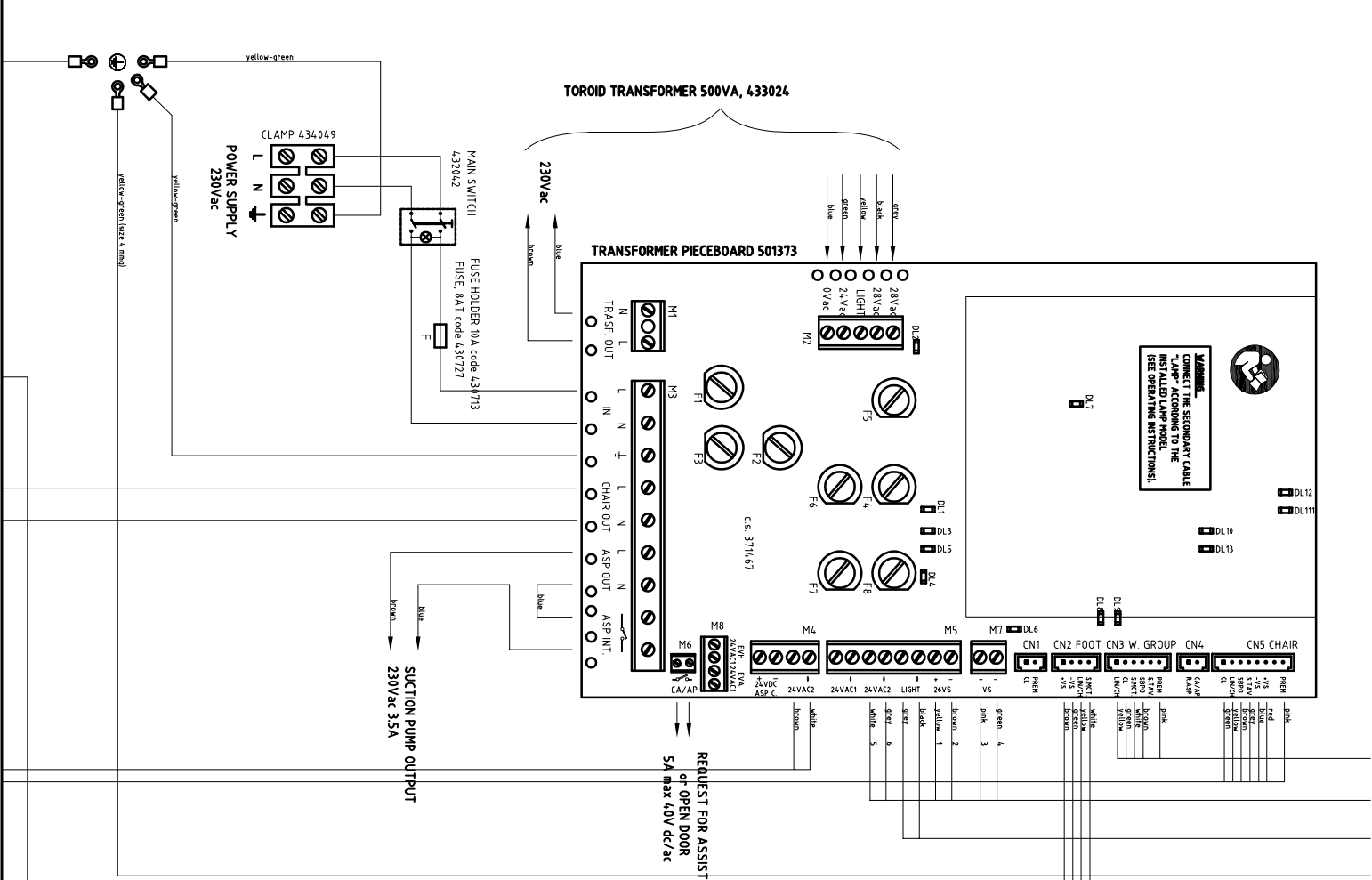
REV.2 UPDATED ON 17/03/2017

**OWMS**  
CABLE IN SAWZADO (PUNTO) -ITALY-

DESCRIPTION	GENERAL DIAGRAM UNIVERSAL STAR WITH CARVING CHAIR (TABLE 1/4)
DATE	25/10/2012
DRAWN BY	
UPPER SECT.	
MAT. CODE	
PRL. CODE	
DWG. NO.	520545

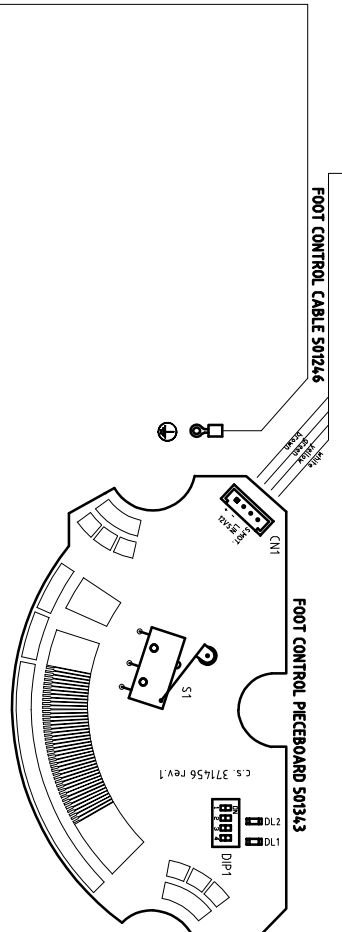
SCALE

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**FUSES**

F	8AT, general (230 Vac)
Transform. pieceboard 501373	
F1	4AT, primary transformer fuse (230 Vac)
F2	5AT, ASP OUT (230 Vac)
F3	5AT, dental chair motors (230 Vac)
F4	6.3AT, operating lamp (16 or 22.8 Vac)
F5	8AT, pcbboard and bus power supply 24VS (28 Vac)
F6	6.3AT, syringes, 2x Vac motors, polym. lamp (24 Vac)
F7	6.3AT, boiler, separator, ca 5.V. (24 Vac)
F8	6.3AT MM, prog. turbine tooth scaler, cc 5.V. (Vd)



**FOOT CONTROL CABLE 501246**

**DIP-SWITCH SETPOINTS: FOOT CONTROL FUNCTIONS**

DSMT in foot control pieceboard 501343	1	2	3	4
Main lever-controlled dental chair movements; rising, zero and memory position with levers	off	off	off	off
Levers-controlled dental chair movements	on	off	off	off
Levers-controlled dental chair movements; main lever-controlled cups and operating lamp	on	on	off	off
Left lever-controlled turn off suction (right lever unchanged)	off	off	on	off

**WARNING SIGNS**

**Transformer pieceboard 501373**

DL1	LED - failure fuse F4 Lamp
DL2	LED - failure fuse F5 28VAC
DL3	LED - failure fuse F6 24VAC2
DL4	LED - failure fuse F8 28VS
DL5	LED - failure fuse F7 24VAC1
DL6	LED - failure fuse F9 VS
DL7	LED - 28VDC power
DL8	LED - CA/AP relay out monitor
DL9	LED - ASP relay out monitor
DL10	LED flashing if program is being correctly executed
DL11	LED press for flashing
DL12	LED reset ext per col
DL13	LED flashing with LIN bus active

**Foot control pieceboard 501343**

DL1	LED - inputs active
DL2	LED - BUS active

REV.2 UPDATED ON 17/03/2017

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OSILE IN SALIZIANO (PADOVA) - ITALY

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DESCRIPTION	GENERAL DIAGRAM UNIVERSAL STAR WITH CARVING CHAIR (TABLE 2/4)
DATE	25/10/2012
DRAWN BY	
SCALE	
UPPER SECT.	
MAT. CODE	
PRJ. CODE	
DWG. NO.	520545



# LIST OF DISPLAYED ERRORS

E000	foot control pcbboard is not connected or is malfunctioning
E001	pushbutton panel pcbboard is not connected or is malfunctioning
E002	pcbboard of the floor-mounted box not connected or malfunctioning
E003	pcbboard of the assistant table is not connected or is malfunctioning
E004	dental chair pcbboard is not connected or is malfunctioning
E005	main pcbboard is not connected or is malfunctioning
E006	water group pcbboard is not connected or is malfunctioning
E007	faulty drive micromotor
E006	other error
E017	power protection
E018	motor phase missing
E019	serial communication timeout
E020	invalid EEPROM error
E021	over temperature error
E022	under voltage error
E023	over voltage error
E024	additional board disconnected (after startup) error
E025	timeout with additional board error
E026	invalid additional board version error
E027	invalid EEPROM in additional board error
E028	invalid mode error
E029	not used (free)
E030	frame error
E031	communication error between RS232
E032	28DC power fuse broken (fuse F8)
E033	24AC power fuse 1 broken (fuse F7)
E034	Lamp fuse broken (fuse F4)
E035	24AC power fuse 2 broken (fuse F6)
E036	output suction short circuit
E037	output assistant call short circuit
E038	overcurrent in branch 2, 24 AC
E039	pcbboards and bus overcurrent
E040	switching overheated
E041	stabilised 28 DC voltage error
E042	rectified 28 DC voltage error
E043	24 AC voltage error
E044	lamp voltage error
E045	stabilised 24 DC voltage error
E046	overcurrent in branch 1, 24 AC
E047	lamp overcurrent
E064	'motor safety device' signal error
E065	EEPROM error water group pcbboard
E066	EEPROM error main pcbboard
E067	EEPROM error pushbutton panel pcbboard
E068	a touch is stuck in the instrument table pushbutton panel
E069	a touch is stuck in the assistant table pushbutton panel
E070	DAL error- dc micromotor and scaler
E071	overheating micromotor driver error
E072	battery error pedal wireless
EP01	power solenoid valve short circuit
EP03	short circuit power solenoid valve to grounding system
EA01	water solenoid valve short circuit
EA03	short circuit water solenoid valve to grounding system
EC01	chip blower solenoid valve short circuit
EC03	short circuit chip blower solenoid valve to grounding system
ES01	spray solenoid valve short circuit
ES03	short circuit spray solenoid valve to grounding system
EU01	wash output short circuit
EU03	short circuit wash output to grounding system
EZ01	shutter output short circuit
EZ03	short circuit shutter output to grounding system
EX01	shutter output 1 short circuit
EX03	short circuit shutter output 1 to grounding system
EY01	shutter output 2 short circuit
EY03	short circuit shutter output 2 to grounding system
EH01	assistant call / open door output short circuit
EH03	short circuit assistente call/open door output to grounding system
ER01	suction output short circuit
ER03	short circuit suction output to grounding system
EO01	short circuit in distilled / standard water exchange output
EO03	short circuit to grounding system of distill./st.d. water exchange out
EB01	chair release piston output short circuit
EB03	short circuit to grounding system of chair release piston output

REV. 2 UPDATED ON 17/03/2017

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	DATE	25/10/2012
DRAWN BY		UPPER SECT
SCALE		MAT. CODE
		PRL CODE
		DWG. NO.
		520545