

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

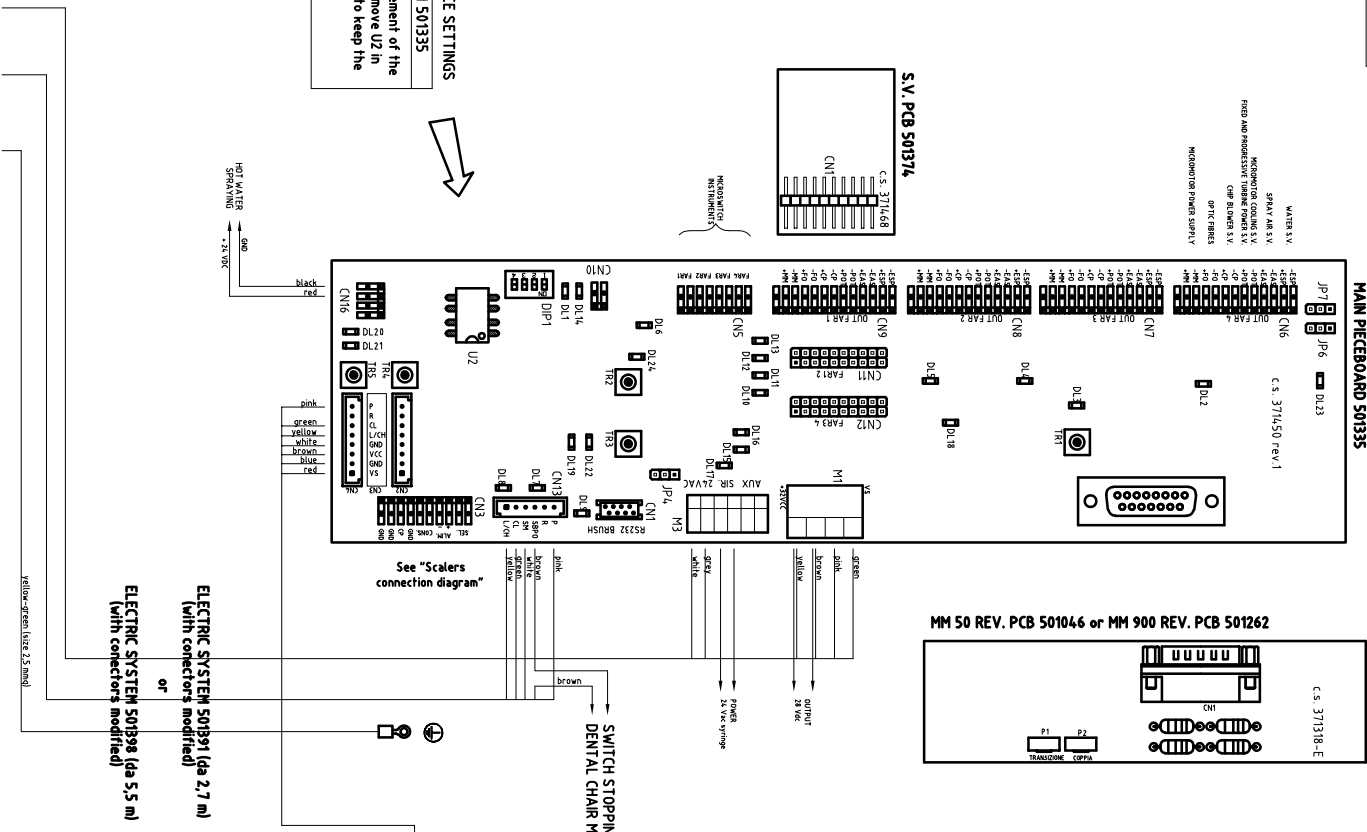
ADJUSTMENTS

Main piceboard 501335	
TR1	Optic fibre light intensity
TR2	Minimum micromotor speed
TR3	Maximum micromotor speed (Max voltage scaler)
TR4 e TR5	free
Micromotor piceboard 50 rev. 501046 and 900 rev. 501262	
P1	Analogue-to-digital switching
P2	Micromotor torque
Pushbutton piceboard 501412	
TR1	Display contrast adjustment

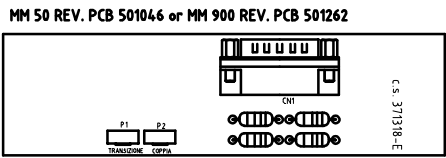
WARNING SIGNS

Main piceboard 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 interblock output

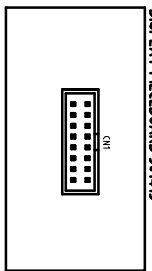
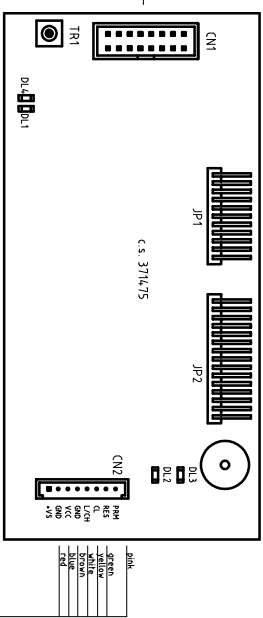
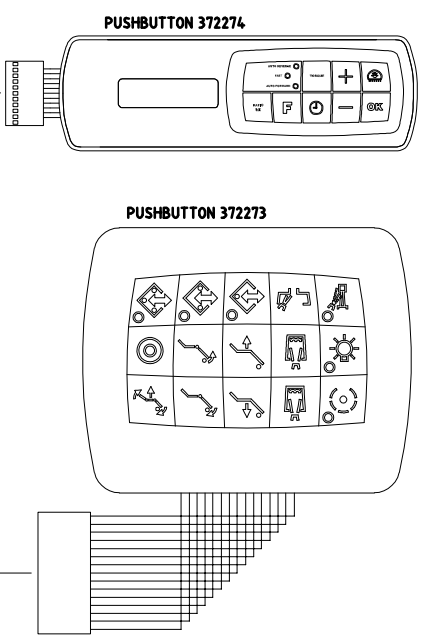
STORAGE DEVICE SETTINGS
Main piceboard 501335
In case of replacement of the general piceboard, move U2 in the new piceboard to keep the settings made.



MAIN PICEBOARD 501335



DISPLAYED ERRORS ARE DESCRIBED IN THE INSTRUCTION HANDBOOK

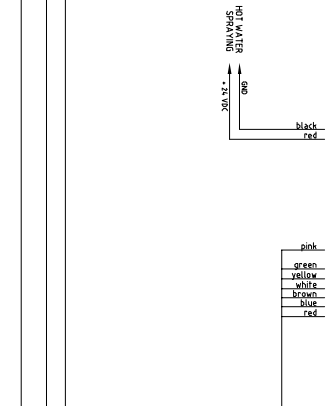


REV.1 UPDATED ON 17/03/2017

DESCRIPTION	CARVING KART GENERAL DIAGRAM (TABLE 1/5)
MATERIAL	
DATE	31/05/2012
DRAWN BY	
UPPER SECT.	
MAT. CODE	
PRL. CODE	
DWG. NO.	520551

SCALE

ELECTRIC SYSTEM 501391 (da 2.7 m)
(with connector's modified)
or
ELECTRIC SYSTEM 501398 (da 5.5 m)
(with connector's modified)



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WARNING SIGNS

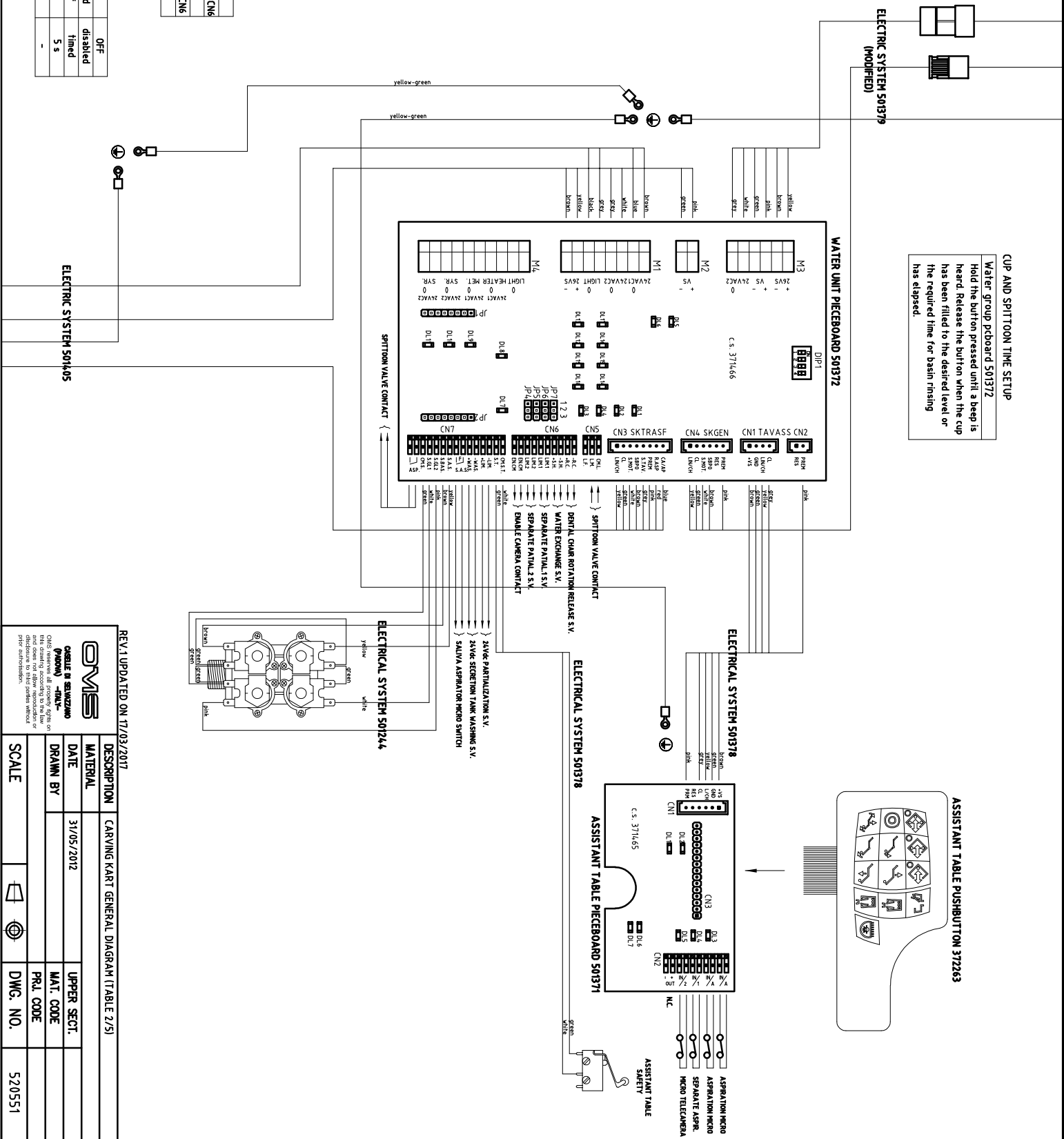
DL1	Assistant Table pieceboard 501371	LED - press for flashing
DL2	LED - reset ext per col.	
DL3	LED - ASP camulas 1	
DL4	LED - ASP camulas 2	
DL5	LED - enable camera out	
DL6	LED flashing if program is being correctly executed	
DL7	Water unit pieceboard 501372	
DL1	LED - press for flashing	
DL2	LED reset ext per col	
DL3	LED - full level	
DL4	LED - intermediate level	
DL5	LED flashing with LIN bus active	
DL6	LED flashing if program is being correctly executed	
DL7	LED - enable camera	
DL8	LED - operating lamp out	
DL9	LED - spittoon out	
DL10	LED - cup 2 out	
DL11	LED - cup 1 out	
DL12	LED - CA/AP out	
DL13	LED - washing S.V. out	
DL14	LED - dental chair release S.V. out	
DL15	LED - part out	
DL16	LED - asp relay out	
DL17	LED - partialization S.V. out	
DL18	LED - water exchange S.V. out	
DL19	LED - par 2 out	
DL20	Transformer pieceboard 501373	
DL1	LED - fuse F4 in lamp malfunctioning	
DL2	LED - 28VAC2 fuse F5 in lamp malfunctioning	
DL3	LED - 24VAC2 fuse F6 in lamp malfunctioning	
DL4	LED - 28V5 fuse F8 in lamp malfunctioning	
DL5	LED - 24VAC2 fuse F7 in lamp malfunctioning	
DL6	LED - VS fuse F9 in lamp malfunctioning	
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		
DL13	LED flashing with LIN bus active	
DL14	Foot control pieceboard 501343	
DL1	LED - inputs active	
DL2	LED - BUS active	

JUMPER AND ADJUSTMENTS

Water unit pieceboard 501372	
Jp4, Jp5	1-2 closed: N.O. contact is obtained in E/C PAR2 (LIM.2) of CN6
	2-3 closed: 28Vdc is obtained in E/C PAR2 (LIM.2) of CN6
Jp6, Jp7	1-2 closed: N.O. contact is obtained in E/C PART (LIM.1) of CN6
	2-3 closed: 28Vdc is obtained in E/C PART (LIM.1) of CN6

DIP - SWITCH SETTINGS (- = irrelevant)		
DSW1 in water unit pieceboard 501372	ON	OFF
DIP 1 - enable spittoon S.V. after cup filling	enabled	disabled
DIP 2 - control of spittoon	on/off	timed
DIP 3 - delay in aspiration switch-off	0 s	5 s
DIP 4 - Free	-	-

CUP AND SPITTOON TIME SETUP
 Water group pboard 501372
 Hold the button pressed until a beep is heard. Release the button when the cup has been filled to the desired level or the required time for basin rinsing has elapsed.

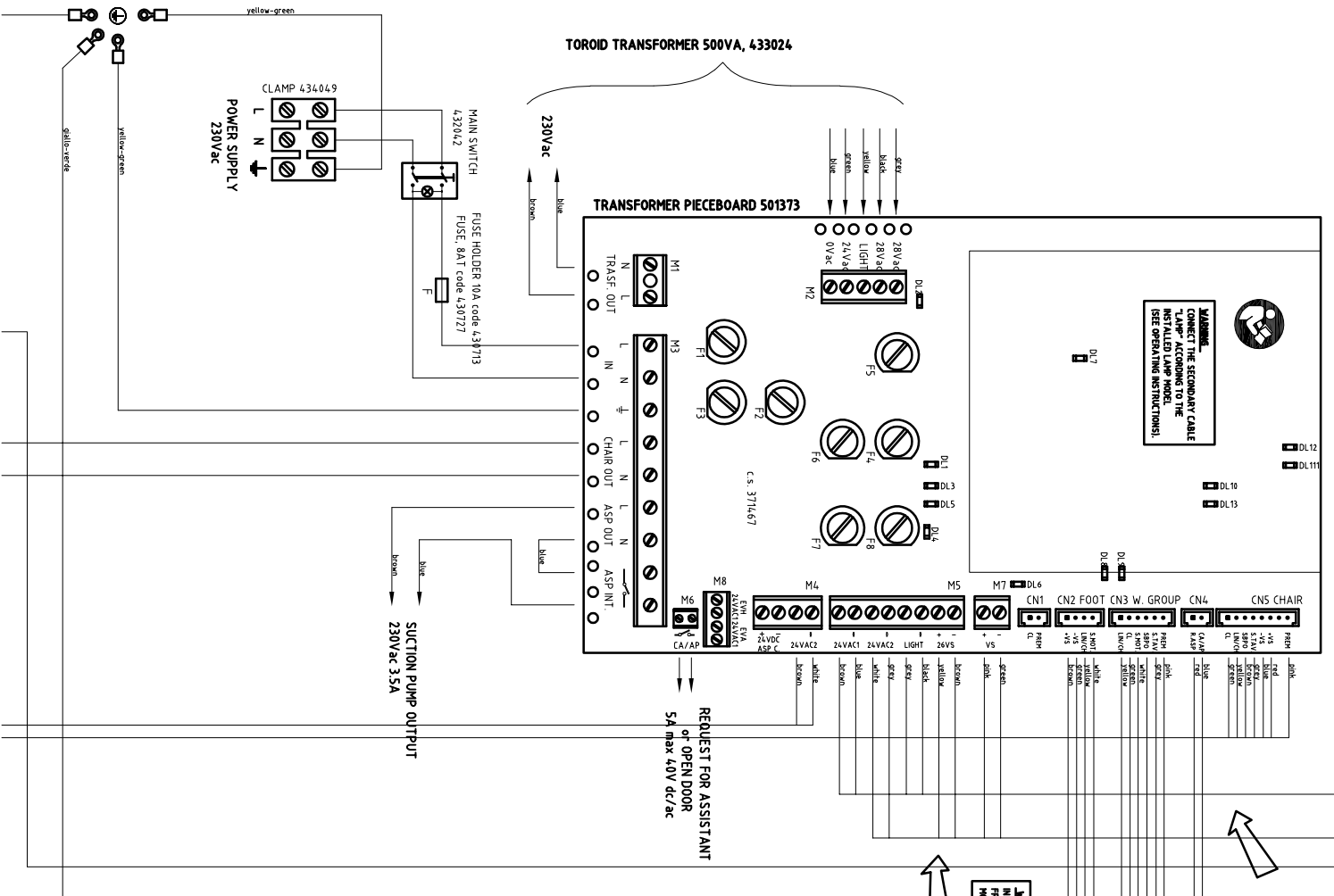


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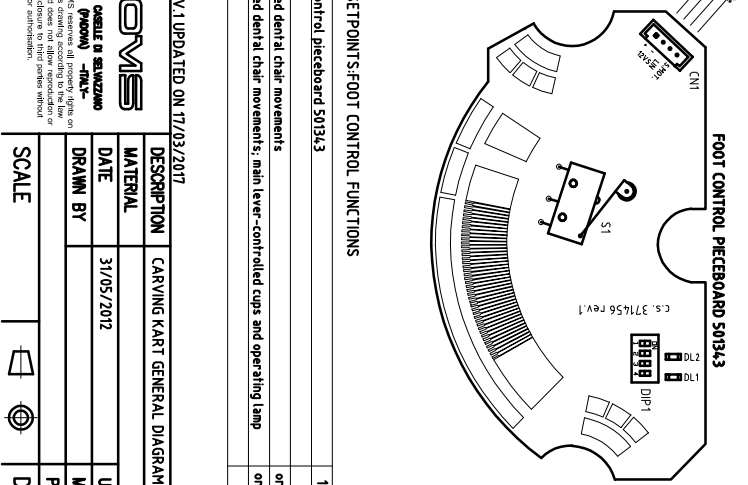
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MATERIAL	
DATE	31/05/2012
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SCALE	
DWG. NO.	520551



DIP-SWITCH SETPOINTS: FOOT CONTROL FUNCTIONS

DSW1 in Foot control pieceboard 501343	1	2	3	4
Lever-1 controlled dental chair movements	on	off	off	off
Lever-2 controlled dental chair movements; main lever-controlled cups and operating lamp	on	on	off	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	

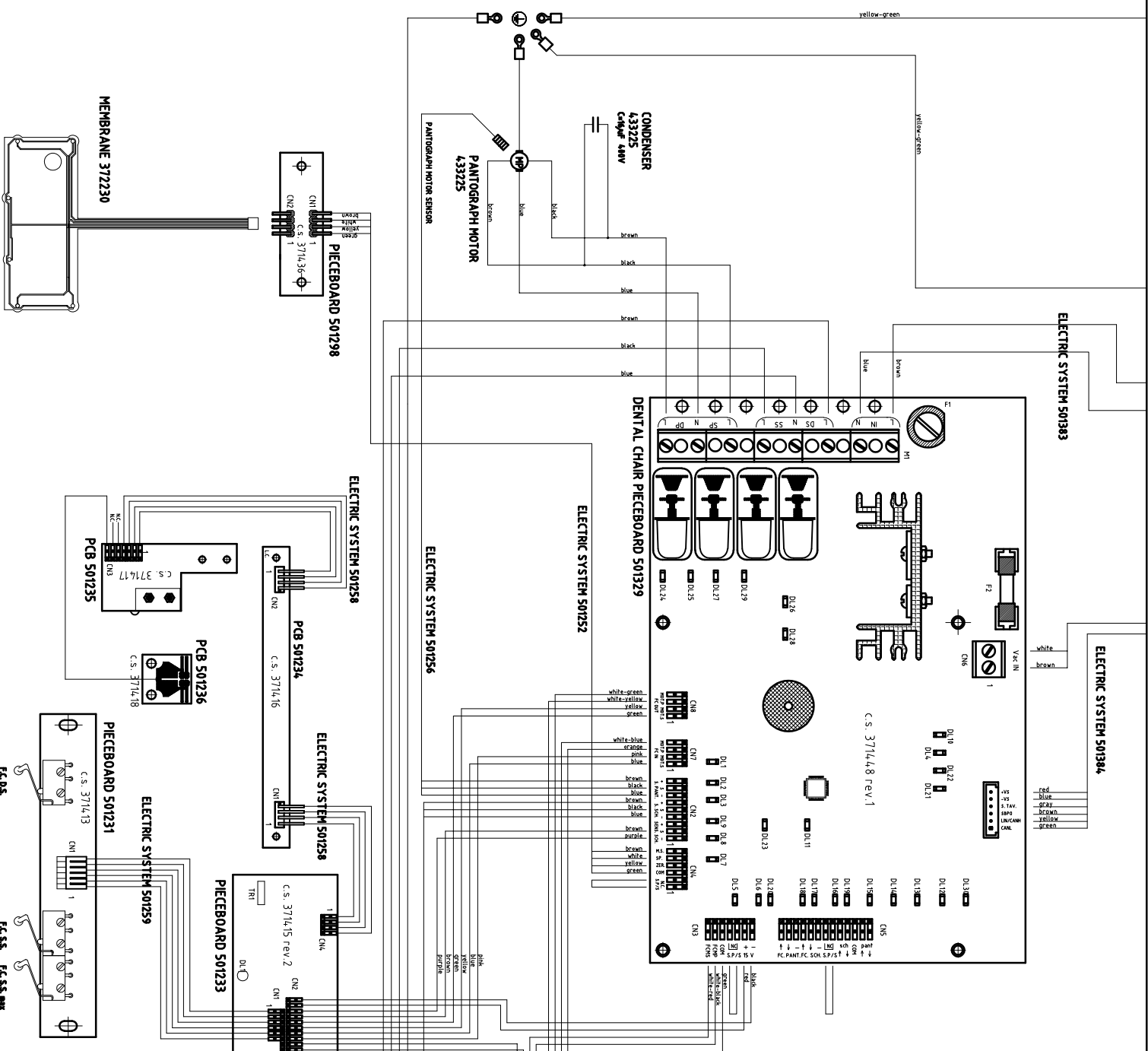
FUSES

F	8AT, general (230 Vac)
F1	4AT, primary transformer fuse (230 Vac)
F2	5AT, ASP OUT output (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, 24 Vac motor, polyim lamp (24 Vac)
F7	6.3AT, boiler, separator, ca 5 V (24 Vac)
F8	6.3AT MM, prog, turbine, tooth scaler, ca 5 V (Vdc)

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CABLE IN SALIZIANO (PADOVA) -ITALY-		MATERIAL	
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SCALE		DWG. NO.	520551

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WARNING SIGNS

Warning Sign ID	Description
DL1	Dental chair pieceboard 501329
DL2	LED - pantographic arm motor rev. sensor
DL3	LED - chair back motor rev. sensor
DL4	LED - chair back antifrushing sensor
DL5	LED - press programming
DL6	LED - chair back photocell
DL7	LED - pantographic arm photocell
DL8	LED - home position
DL9	LED - finishing position
DL10	LED - selected memory
DL11	LED - reset programming
DL12	LED - bus communication
DL13	LED - pantographic arm down control (Arcadia only)
DL14	LED - pantographic arm up control (Arcadia only)
DL15	LED - chair back down control (Arcadia only)
DL16	LED - chair back up control (Arcadia only)
DL17	LED - chair back up limit switch
DL18	LED - chair back down limit switch
DL19	LED - pantographic arm up limit switch
DL20	LED - pantographic arm and back safety device
DL21	LED - pantographic arm down limit switch
DL22	LED - dental chair blocked
DL23	LED - table safety device
DL24	LED - bus communication
DL25	LED - pantographic arm down
DL26	LED - pantographic arm up
DL27	LED - pantographic arm motor on
DL28	LED - chair back up
DL29	LED - chair back down
DL30	LED - 230VAC main present

ELECTRIC SYSTEM 501366

SENSOR ADJUSTMENTS

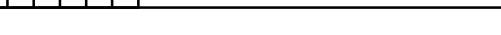
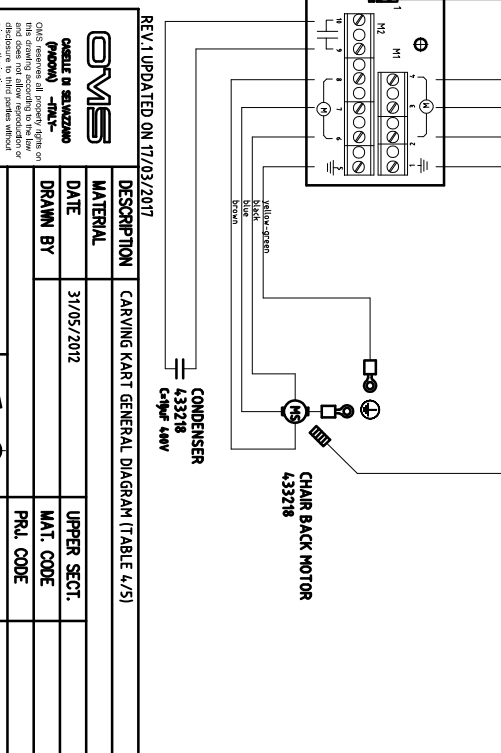
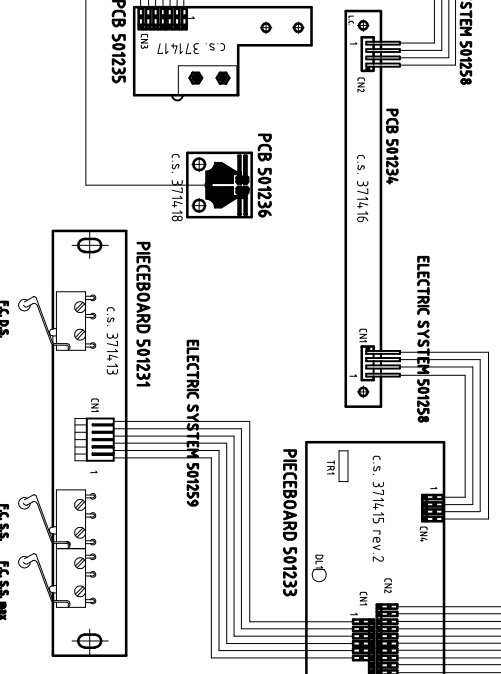
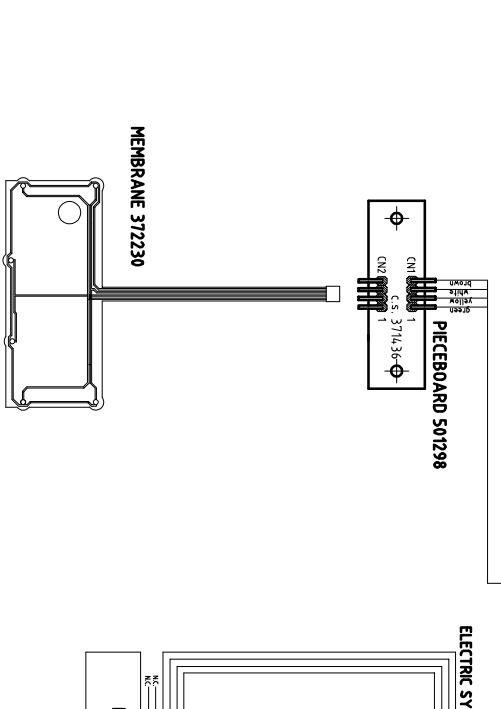
Component	Adjustment
Pieceboard 501233	Sensor sensitivity setup trimmer
DL1	LED - chair back sensor enabled

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MATERIAL	
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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
E008	other error
E009	power protection
E010	motor phase missing
E011	serial communication timeout
E012	invalid EEPROM error
E013	over temperature error
E014	under voltage error
E015	over voltage error
E016	additional board disconnected (after startup) error
E017	timeout with additional board error
E018	invalid additional board version error
E019	invalid EEPROM in additional board error
E020	invalid mode error
E021	not used (free)
E022	frame error
E023	communication error between RS232
E024	28DC power fuse broken (fuse F8)
E025	24AC power fuse 1broken (fuse F7)
E026	Lamp fuse broken (fuse F4)
E027	24AC power fuse 2 broken (fuse F6)
E028	output suction short circuit
E029	output assistant call short circuit
E030	overcurrent in branch 2, 24 AC
E031	pcbboards and bus overcurrent
E032	switching overheated
E033	stabilised 28 DC voltage error
E034	24 AC voltage error
E035	Lamp voltage error
E036	stabilised 24 DC voltage error
E037	overcurrent in branch 1, 24 AC
E038	Lamp overcurrent
E039	"motor safety device" signal error
E040	EEPROM error water group pcbboard
E041	EEPROM error main pcbboard
E042	EEPROM error pushbutton panel pcbboard
E043	a touch is stuck in the instrument table pushbutton panel
E044	a touch is stuck in the assistant table pushbutton panel
E045	DAC error: dc micromotor and scaler
E046	overheating micromotor driver error
E047	battery error/pedal wireless
E048	power solenoid valve short circuit
E049	short circuit power solenoid valve to grounding system
E050	water solenoid valve short circuit
E051	short circuit water solenoid valve to grounding system
E052	chip blower solenoid valve short circuit
E053	short circuit chip blower solenoid valve to grounding system
E054	spray solenoid valve short circuit
E055	short circuit spray solenoid valve to grounding system
E056	wash output short circuit
E057	short circuit wash output to grounding system
E058	shutter output short circuit
E059	short circuit shutter output to grounding system
E060	shutter output 1 short circuit
E061	short circuit shutter output 1 to grounding system
E062	shutter output 2 short circuit
E063	short circuit shutter output 2 to grounding system
E064	assistant call / open door output short circuit
E065	short circuit assistente call/open door output to grounding system
E066	suction output short circuit
E067	short circuit suction output to grounding system
E068	short circuit in distilled / standard water exchange output
E069	short circuit to grounding system of distilled/stand. water exchange out
E070	chair release piston output short circuit
E071	short circuit to grounding system of chair release piston output
E072	short circuit to grounding system of chair release piston output

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SCALE	
	UPPER SECT.
	MAT. CODE
	PRJ. CODE
	DWG. NO.
	520551