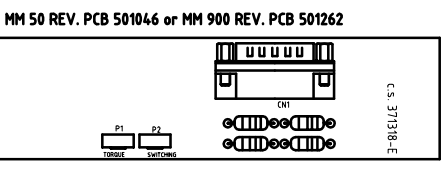
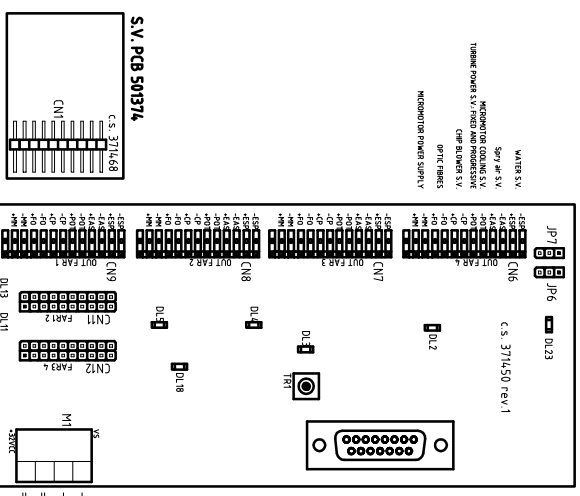


E000	foot control pboard is not connected or is malfunctioning
E001	pushbutton panel pboard is not connected or is malfunctioning
E002	pboard of the floor-mounted box not connected or malfunctioning
E003	pboard of the assistant table is not connected or is malfunctioning
E004	dental chair pboard is not connected or is malfunctioning
E005	main pboard is not connected or is malfunctioning
E006	water group pboard 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	additional board disconnected (after startup) error
E016	timeout with additional board error
E017	invalid additional board version error
E018	invalid EEPROM in additional board error
E019	invalid mode error
E020	not used (free)
E021	frame error
E022	communication error between RS232
E023	28DC power fuse broken (fuse F8)
E024	24AC power fuse 1 broken (fuse F7)
E025	Lamp fuse broken (fuse F4)
E026	24AC power fuse 2 broken (fuse F6)
E027	output suction short circuit
E028	output assistant call short circuit
E029	overcurrent in branch 2, 24 AC
E030	pboards and bus overcurrent
E031	switching overheated
E032	stabilised 28 DC voltage error
E033	rectified 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	overcurrent
E039	lamp overcurrent
E040	"motor safety device" signal error
E041	EEPROM error water group pboard
E042	EEPROM error main pboard
E043	EEPROM error pushbutton panel pboard
E044	a touch is stuck in the instrument table pushbutton panel
E045	DAC error: dc micromotor and scaler
E046	overheating micromotor or 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	short circuit short circuit
E059	short circuit shifter output 1 to grounding system
E060	short circuit shifter output 2 to grounding system
E061	short circuit shifter output 3 to grounding system
E062	short circuit shifter output 4 to grounding system
E063	short circuit shifter output 5 to grounding system
E064	short circuit shifter output 6 to grounding system
E065	short circuit shifter output 7 to grounding system
E066	short circuit shifter output 8 to grounding system
E067	short circuit shifter output 9 to grounding system
E068	short circuit shifter output 10 to grounding system
E069	short circuit shifter output 11 to grounding system
E070	short circuit shifter output 12 to grounding system
E071	short circuit shifter output 13 to grounding system
E072	short circuit shifter output 14 to grounding system
E073	short circuit shifter output 15 to grounding system
E074	short circuit shifter output 16 to grounding system
E075	short circuit shifter output 17 to grounding system
E076	short circuit shifter output 18 to grounding system
E077	short circuit shifter output 19 to grounding system
E078	short circuit shifter output 20 to grounding system
E079	short circuit shifter output 21 to grounding system
E080	short circuit shifter output 22 to grounding system
E081	short circuit shifter output 23 to grounding system
E082	short circuit shifter output 24 to grounding system
E083	short circuit shifter output 25 to grounding system
E084	short circuit shifter output 26 to grounding system
E085	short circuit shifter output 27 to grounding system
E086	short circuit shifter output 28 to grounding system
E087	short circuit shifter output 29 to grounding system
E088	short circuit shifter output 30 to grounding system
E089	short circuit shifter output 31 to grounding system
E090	short circuit shifter output 32 to grounding system
E091	short circuit shifter output 33 to grounding system
E092	short circuit shifter output 34 to grounding system
E093	short circuit shifter output 35 to grounding system
E094	short circuit shifter output 36 to grounding system
E095	short circuit shifter output 37 to grounding system
E096	short circuit shifter output 38 to grounding system
E097	short circuit shifter output 39 to grounding system
E098	short circuit shifter output 40 to grounding system
E099	short circuit shifter output 41 to grounding system
E100	short circuit shifter output 42 to grounding system

LIST OF DISPLAYED ERRORS

DIP SWITCH SETPOINTS (- = irrelevant)	ON	OFF
DSW1 in main pboard 501335	ON	OFF
DIP 1 - dentist's chair mode	configuration	normal
DIP 2 - hot water outlet for spraying on CN6	disabled	enabled
DIP 3 - dental chair movable with instruments relieved	ON	-
DIP 4 - assistant table model Universal Classic	enabled	disabled

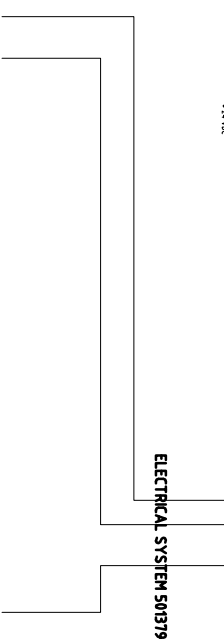
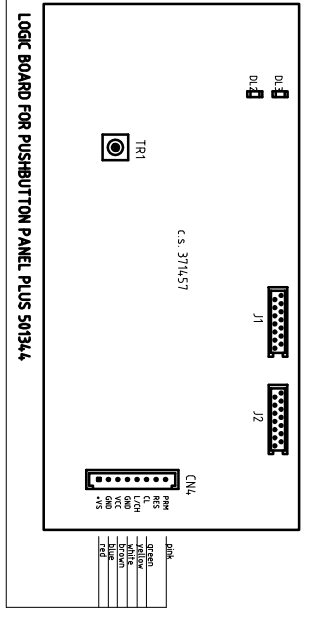
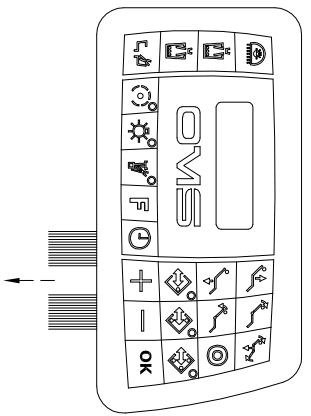
MAIN PCEBOARD 501335



MESSAGES

Assistant table pboard 501335	free
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

FOR INSTALLATION BRUSHLESS MICROMOTOR SEE DIAGRAM 520535 MEMBRANA PLUS 37282 + PCEBOARD 501335



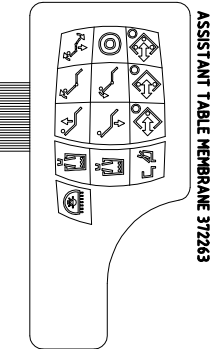
REV. 10 UPDATED ON 17/03/2017

DESCRIPTION	GENERAL UNIVERSAL TOP DIAGRAM (TABLE 1/4)
MATERIAL	
DATE	14/06/2010
DRAWN BY	SERIAL NO.
ADMISSIBLE ERROR VALUES WITHOUT TOLERANCE CODE LA V.	
SCALE	DRAWING NO
	520532

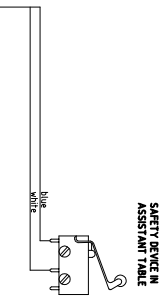
OMES
 OMBRE S. S.p.A.
 (ROMA) - ITALY
 Patent in the EU, CN, USA and other countries.
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CUP AND SPITTOON TIME SETUP

Water unit sheet 501372
 Hold the button down until the beep is heard
 Release the button as soon as the cup is filled to the desired level or the desired spittoon rinsing time has elapsed.



ASSISTANT TABLE MEMBRANE 372263



SAFETY DRIVE IN ASSISTANT TABLE

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 - partization S.V. out
DL18	LED - water exchange S.V. out
DL19	LED - part 2 out

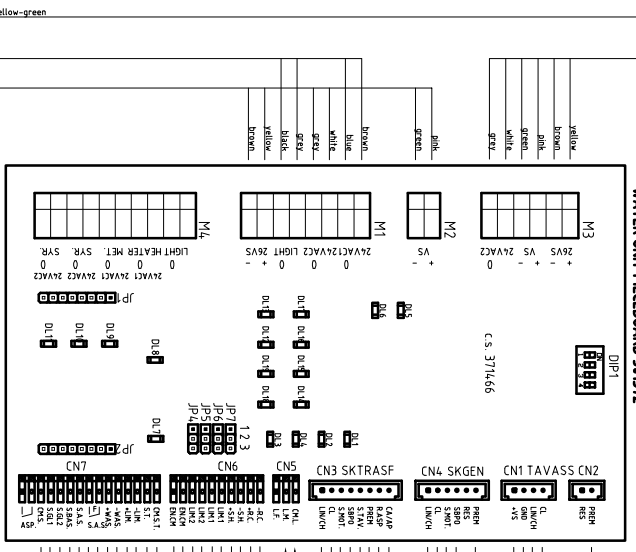
JUMPER AND ADJUSTMENTS

Water unit pieceboard 501372

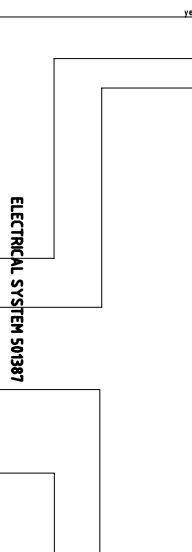
JP4, JP5	1-2 closed; N.O. contact is obtained in E/C PART 2 (LIN 2) of CN6
	2-3 closed; 28Vdc is obtained in E/C PART 2 (LIN 2) of CN6
JP6, JP7	1-2 closed; N.O. contact is obtained in E/C PART 1 (LIN 1) of CN6
	2-3 closed; 28Vdc is obtained in E/C PART 1 (LIN 1) of CN6

DIP-SWITCH SETPOINTS (- = irrelevant)

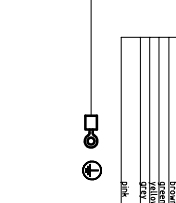
DSW1 in water unit pieceboard 501372	ON	OFF
DIP 1 - enable spittoon S.V. after cup filling	enabled	disabled
DIP 2 - control of spittoon	on/off	timed
DIP 3 - delay in aspiration switch-off	0 s	5 s
DIP 4 - free	-	-



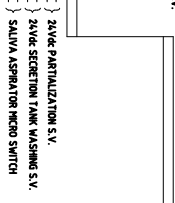
ELECTRICAL SYSTEM 501372



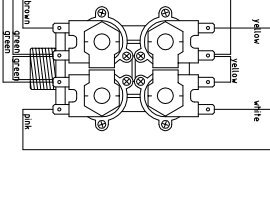
ELECTRICAL SYSTEM 501378



ELECTRICAL SYSTEM 501378



ELECTRICAL SYSTEM 501397



MESSAGES

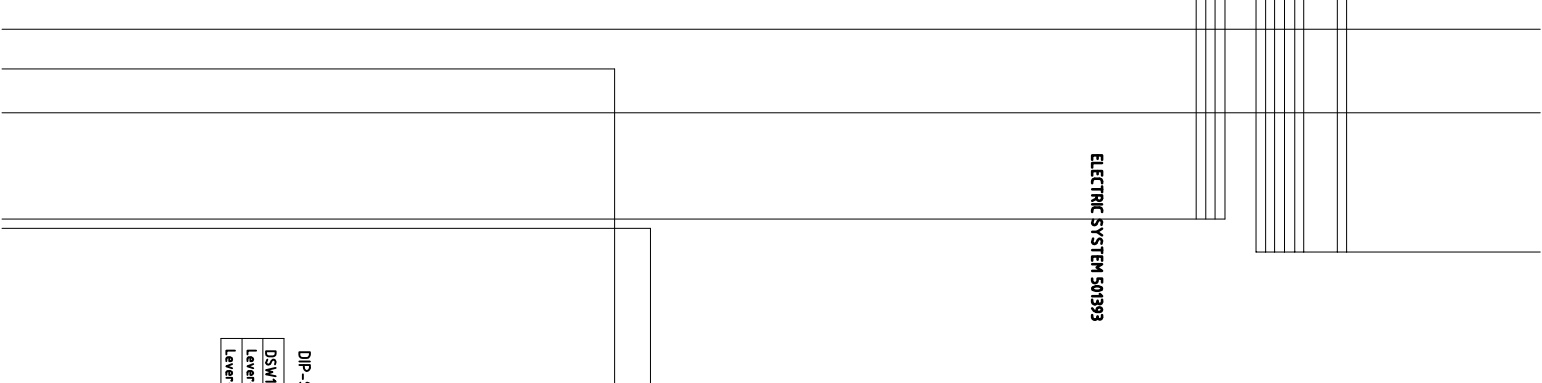
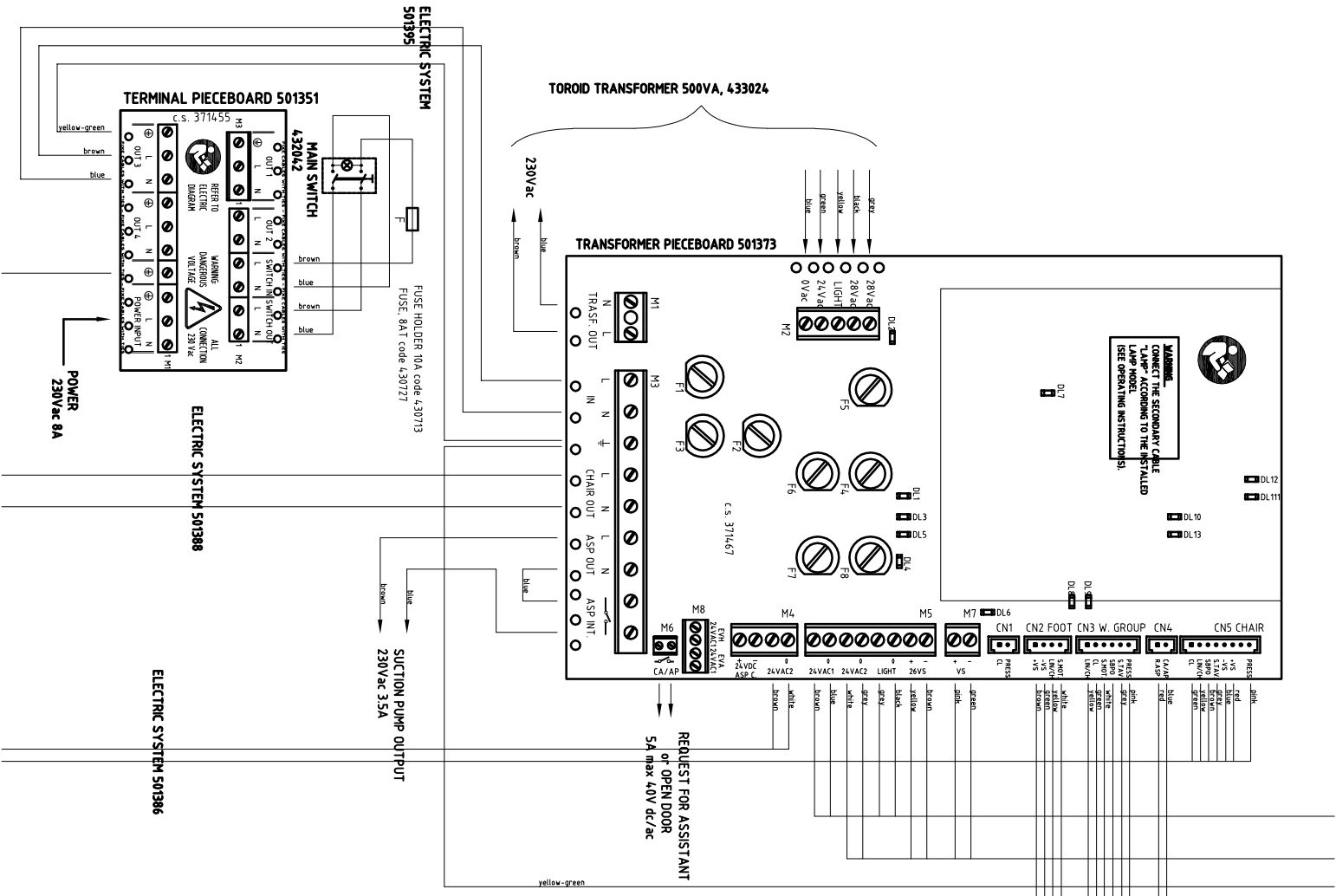
DL1	LED - Press for Flashing
DL2	LED reset ext per col.
DL3	LED - ASP cannulas 1
DL4	LED - ASP cannulas 2
DL5	LED - enable camera out
DL6	LED flashing with LIN bus active
DL7	LED flashing if program is being correctly executed

REV.10 UPDATED ON 17/03/2017

GENERAL UNIVERSAL TOP DIAGRAM (TABLE 274)

DESCRIPTION	MATERIAL	DATE	UPPER SECT.
CABLE IN SALVIZIANO (PINOVA) -TAL-	14/06/2010		SERIAL NO.
DRAWN BY			ADMISSIBLE ERROR: VALUES WITHOUT TOLERANCE/ASH CODE
SCALE			DRAWING NO. 520532

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 OSILE IN SALVIZIANO (PINOVA) -TAL-
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OSALE N. SALIZIANO (PROV. -RM-)

DRAWN BY

ADMISSIBLE ERROR: VALUES WITHOUT TOLERANCE/ASH CODE

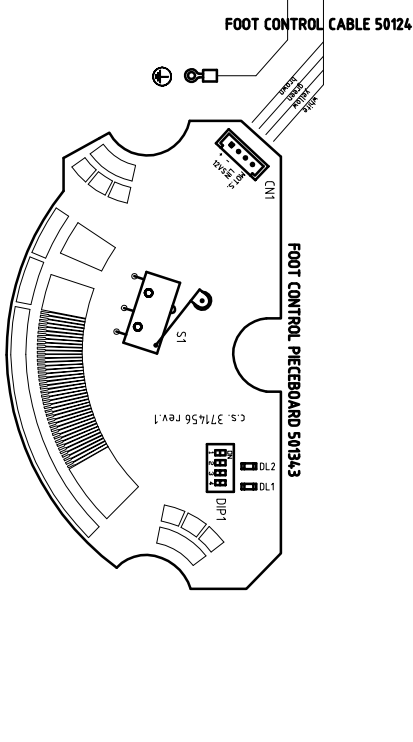
SCALE

DRAWING NO. 520532

DESCRIPTION	GENERAL UNIVERSAL TOP DIAGRAM (TABLE 3/4)
MATERIAL	
DATE	14/06/2010
UPPER SECT.	
SERIAL NO.	

DIP-SWITCH SETPOINTS-FOOT CONTROL FUNCTIONS

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



MESSAGES

Transformer pieceboard 501373

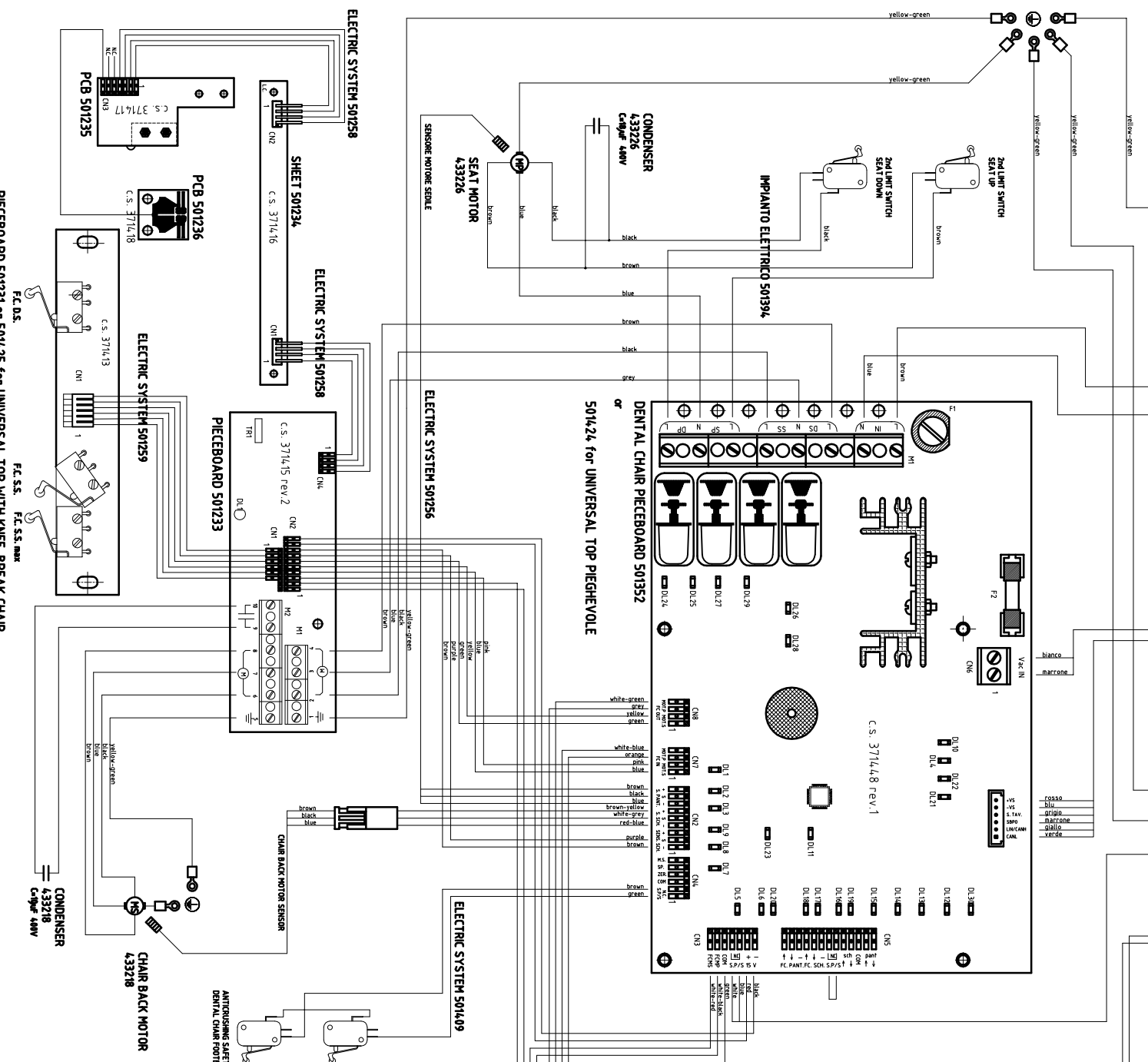
DL1 LED - fuse F4 in lamp malfunctioning
DL2 LED - 28VAC fuse F5 in lamp malfunctioning
DL3 LED - 24VAC2 fuse F6 in lamp malfunctioning
DL4 LED - 28VAC fuse F8 in lamp malfunctioning
DL5 LED - 24VAC1 fuse F7 in lamp malfunctioning
DL6 LED - 28VAC power
DL7 LED - 28VAC power
DL8 LED - CA/AP relay out 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, sheet 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 HM, prog. turbine, tooth scaler, ca 5.V (Vdc)



MESSAGES

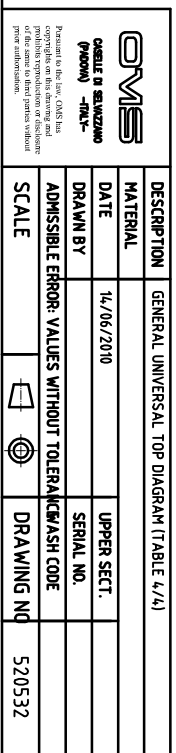
- DL1 Dental chair pieceboard 501352
- DL2 LED - pantographic arm motor rev. sensor
- DL3 LED - chair back motor rev. sensor
- DL4 LED - chair back antirising sensor
- DL5 LED - press programming
- DL6 LED - chair back photocell
- DL7 LED - pantographic arm photocell
- DL8 LED - home position
- DL9 LED - rising 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 motor on
- DL30 LED - 230Vac main present

REV.10 UPDATED ON 11/03/2017

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DESCRIPTION	GENERAL UNIVERSAL TOP DIAGRAM (TABLE 4/1)
MATERIAL	
DATE	14/06/2010
DRAWN BY	SERIAL NO.
ADMISSIBLE ERROR: VALUES WITHOUT TOLERANCE/ASH CODE	
SCALE	DRAWING NO. 520532



ELECTRIC SYSTEM 501396

CONDENSER	433218	C-imp 48W
CHAIR BACK MOTOR	433218	
CHAIR BACK SENSOR		
ANTIRISING SAFETY DEVICE		
PIECEBOARD 501233		
SENSOR SETUP		
TR1	Sensor sensitivity setup trimmer	
DL1	LED - chair back sensor enabled	