

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

**ADJUSTMENTS**

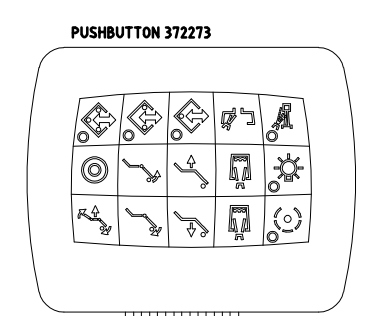
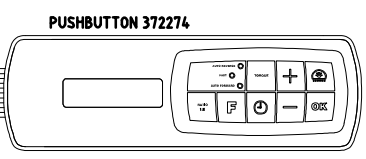
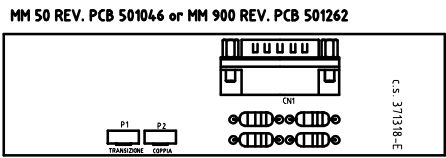
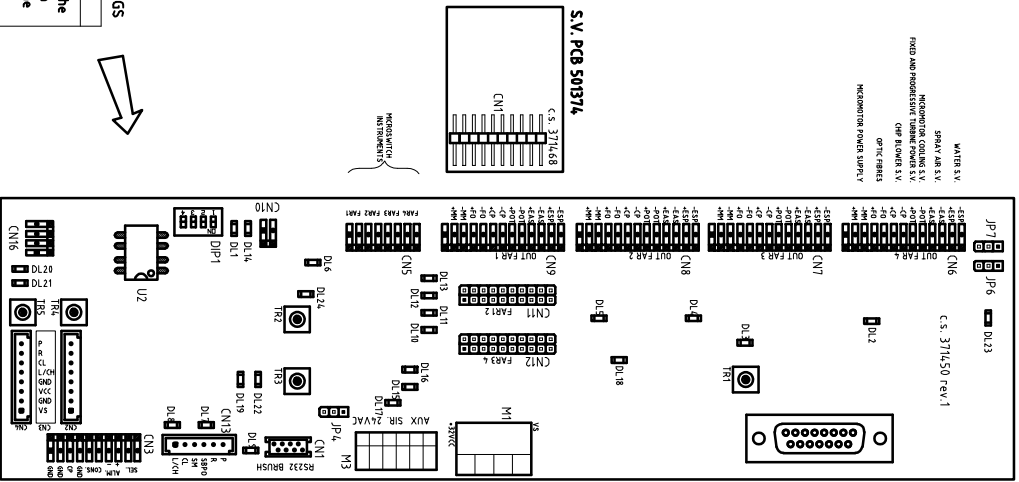
Main pieceboard 501335	
TR1	Optic fibre light intensity
TR2	Minimum micromotor speed
TR3	Maximum micromotor speed (Max voltage scaler)
TR4 e TR5	free
Micromotor	Microboard 50 rev. 501046 and 900 rev. 501262
P1	Analog-to-digital switching
P2	Micromotor Torque
Pushbutton pboard 501412	
TR1	Display contrast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

**WARNING SIGNS**

Main pieceboard 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 power on
DL16	LED - VCC 5V power on
DL18	LED - 24VAC2 power on
DL19	LED - enable optic fibre
DL20	LED in SBPO monitor
DL21	LED - Reset for prog.
DL22	LED in mot. safety dev.
DL23	LED - Invert MM out
DL24	LED - delivery unit interlock output

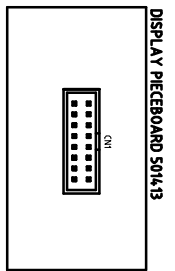
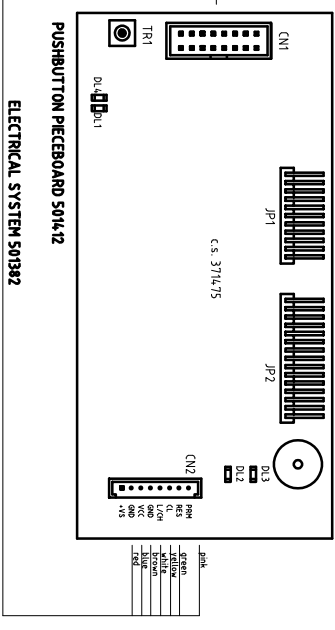
**STORAGE DEVICE SETTINGS**  
Main Pieceboard 501335  
In case of replacement of the general pboard, move U2 in the new pboard to keep the settings made.

**MAIN PIECEBOARD 501335**

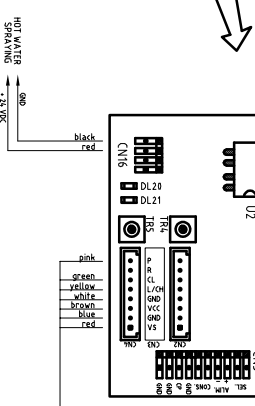


DISPLAYED ERRORS ARE DESCRIBED IN THE INSTRUCTION HANDBOOK

**SWITCH STOPPING DENTAL CHAIR MOVEMENTS**



**ELECTRICAL SYSTEM 501379**



REV.2 UPDATED ON 30/03/2017

<b>OMS</b>		GENERAL DIAGRAM PUNTO NEW WITH UNIVERSAL TOP (TABLE 7/5)	
DESCRIPTION	MATERIAL	DATE	UPPER SECT.
CASILE R. SAZZANO (PUNTO) -OML-		29/05/2012	
DRAWN BY		MAT. CODE	PRL. CODE
SCALE		DWG. NO.	52054.7

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**WARNING SIGNS**

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

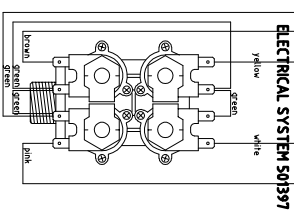
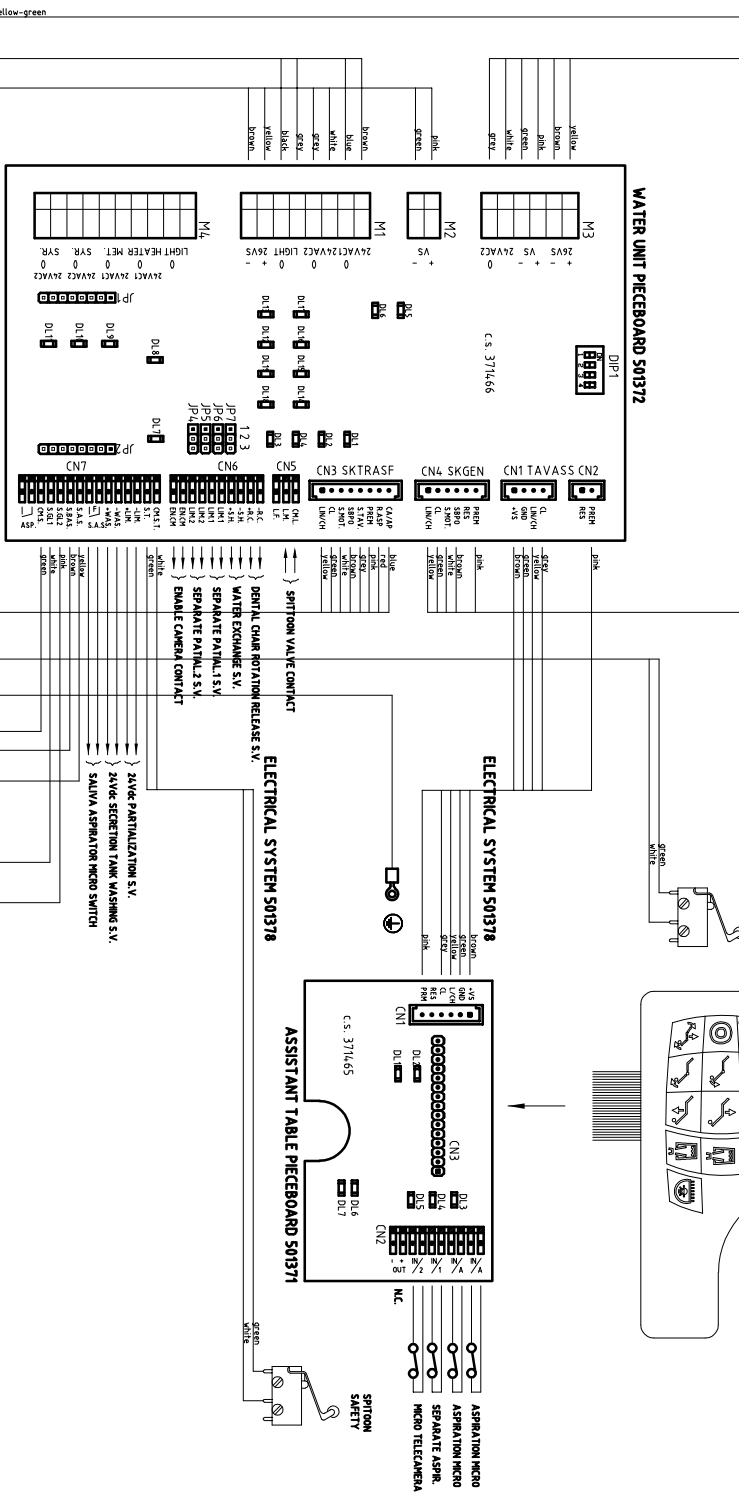
**JUMPER AND ADJUSTMENTS**

Water unit pcbboard 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 PAR1 (LIM.1) of CN6	
	2-3 closed: 28Vdc is obtained in E/C PAR1 (LIM.1) of CN6	

**DIP-SWITCH SETTINGS ( - = irrelevant)**

DSW1 in water unit pcbboard 501372		
DIP 1 - enable spittoon S.V. after cup filling	ON	enabled
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.



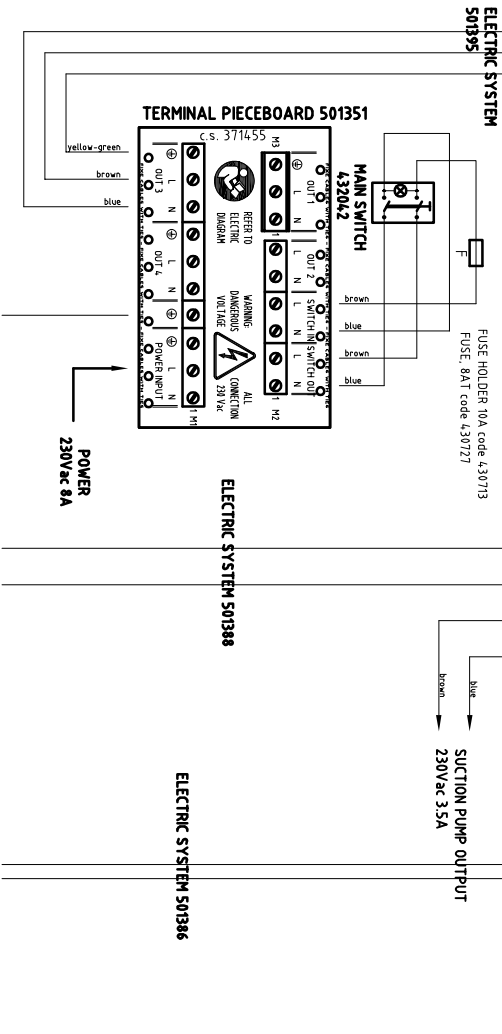
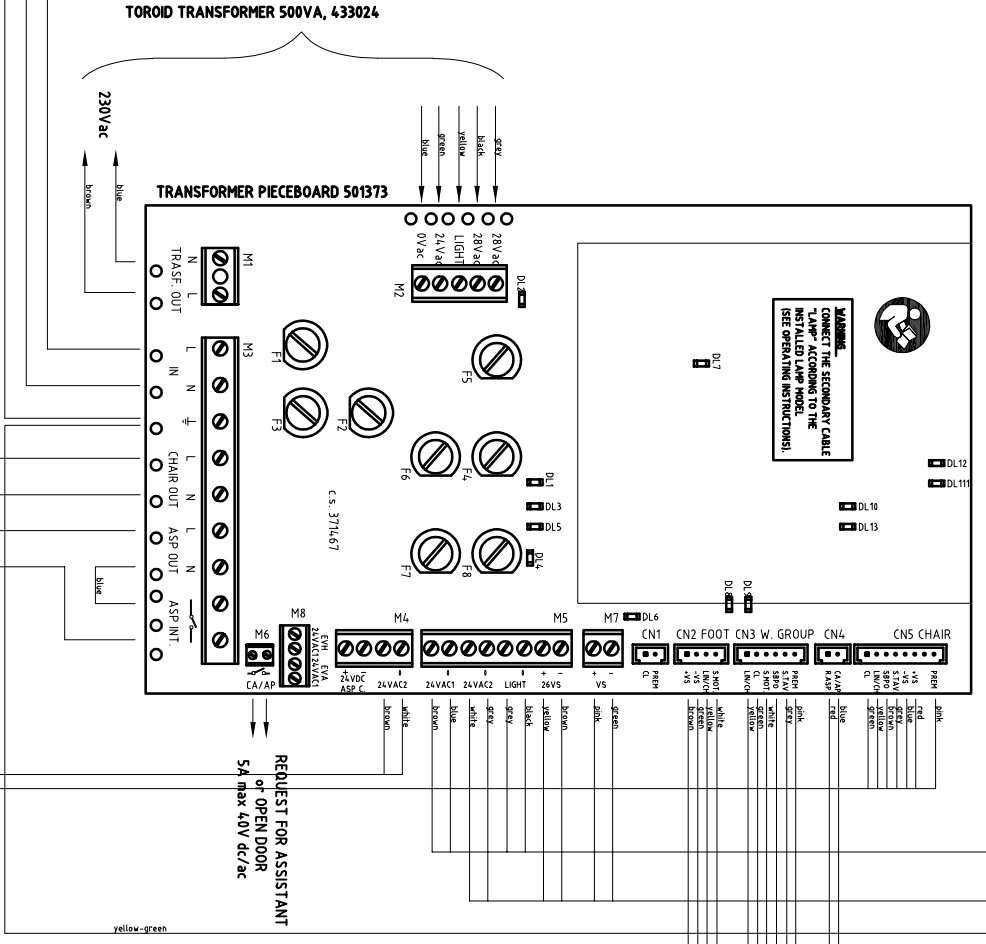
REV 2 UPDATED ON 30/03/2017

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DESCRIPTION	GENERAL DIAGRAM PUNTO NEW WITH UNIVERSAL TOP (TABLE Z/S)
MATERIAL	
DATE	29/05/2012
DRAWN BY	
UPPER SECT.	
MAT. CODE	
PRJ. CODE	
SCALE	
DWG. NO.	52054.7

**WARNING**  
 CONNECT THE SECONDARY CABLE  
 LAMP ACCORDING TO THE  
 INSTALLED LAMP MODEL.  
 SEE OPERATING INSTRUCTIONS!



- DL7
- DL10
- DL11
- DL12
- DL13
- DL6
- DL4
- DL5
- DL3
- DL1
- DL2

REQUEST FOR ASSISTANT  
 or OPEN DOOR  
 5A max 40V dc/ac

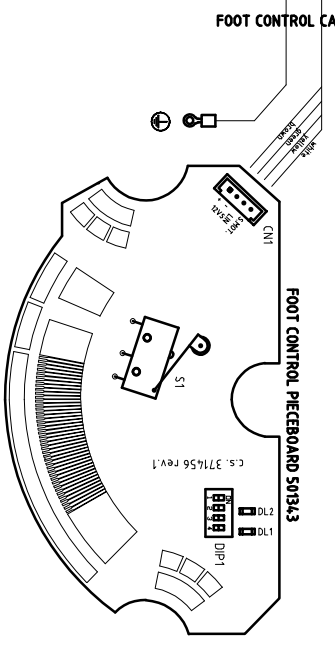
**ELECTRICAL SYSTEM 501393**

**FUSES**

F	8A1 - general (230 Vac)
Transformer pieceboard 501373	
F1	4A1 - primary transformer fuse (230 Vac)
F2	5A1 - ASP OUT (230 Vac)
F3	5A1 - dent al chair motors (230 Vac)
F4	6.3A1 - operating lamp (16 or 22.8 Vac)
F5	8A1 - pboard and bus power supply 24V5 (28 Vac)
F6	6.3A1 - syringes, 24 Vac motors, polym. lamp (24 Vac)
F7	6.3A1 - boiler, separator, ca S.V. (24 Vac)
F8	6.3A1 MM, prog. turbine, tooth sealer, cc S.V. (Vad)

**WARNING SIGNS**

DL1	LED - failure fuse F4 lamp
DL2	LED - failure fuse F5 28VAC
DL3	LED - failure fuse F6 24VAC2
DL4	LED - failure fuse F8 28V5
DL5	LED - failure fuse F7 24VACT
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



**DIP - SWITCH SETPOINT-S:FOOT CONTROL FUNCTIONS**

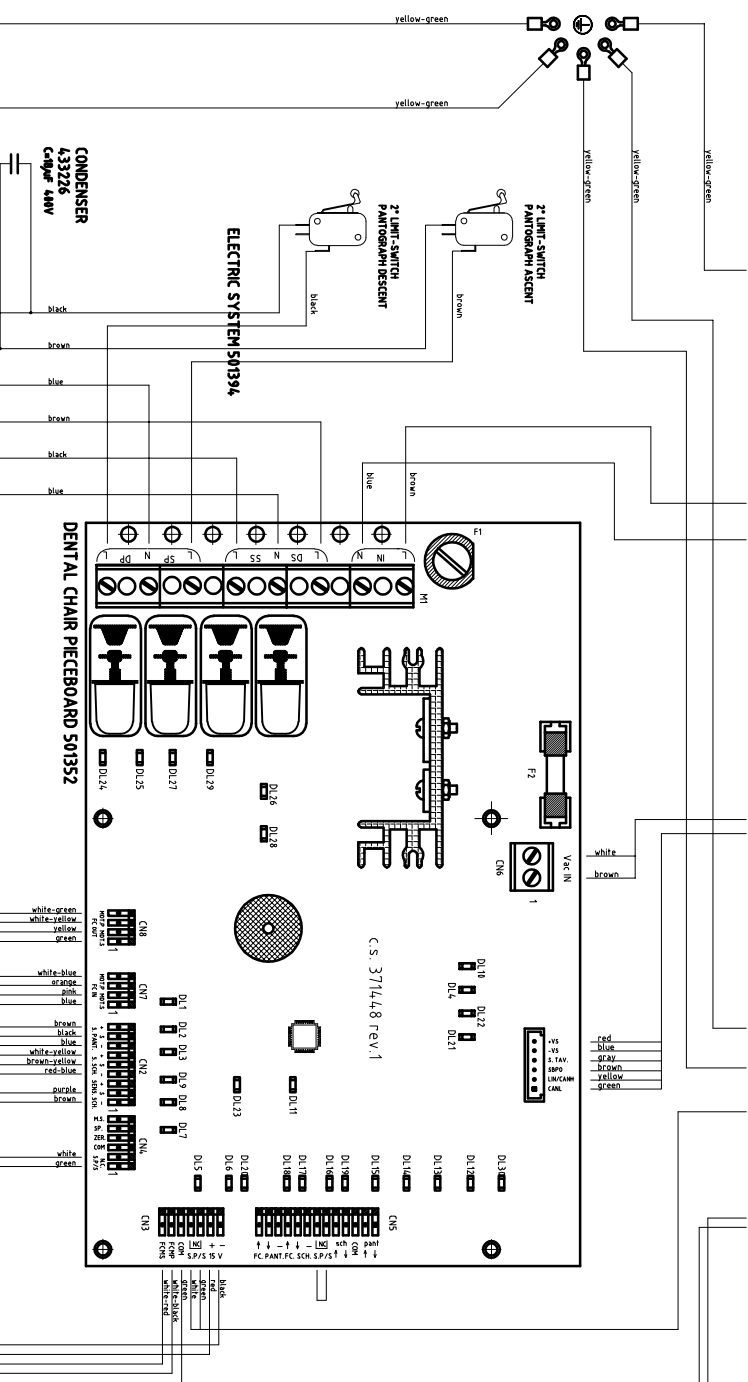
DSW1 in Foot control pieceboard 501343	1	2	3	4
Levers - controlled dental chair movements	on	off	off	off
Levers - controlled dental chair movements, main lever - controlled cups and operating lamp	on	on	off	off

REV 2 UPDATED ON 30/03/2017

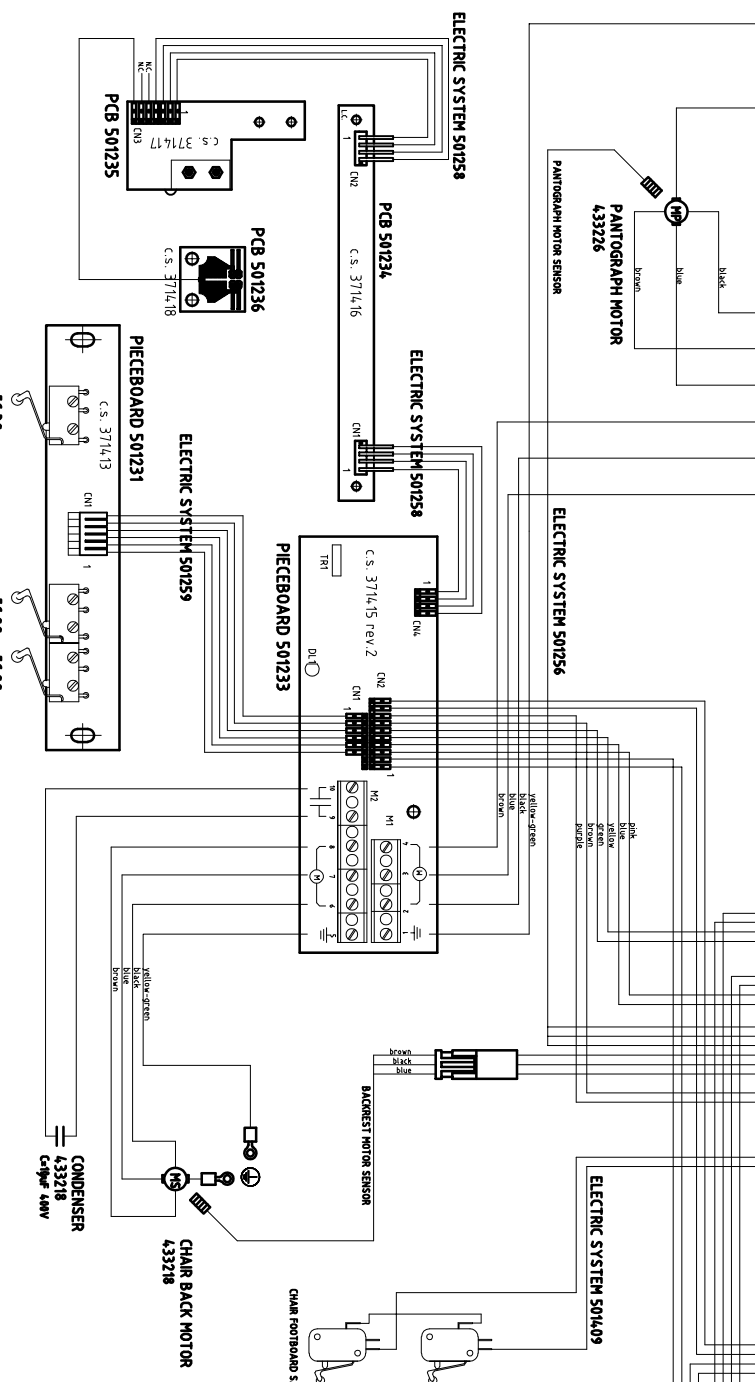
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DATE	29/05/2012
UPPER SECT.	
DRAWN BY	
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PRJ. CODE	
SCALE	
DWG. NO.	52054.7

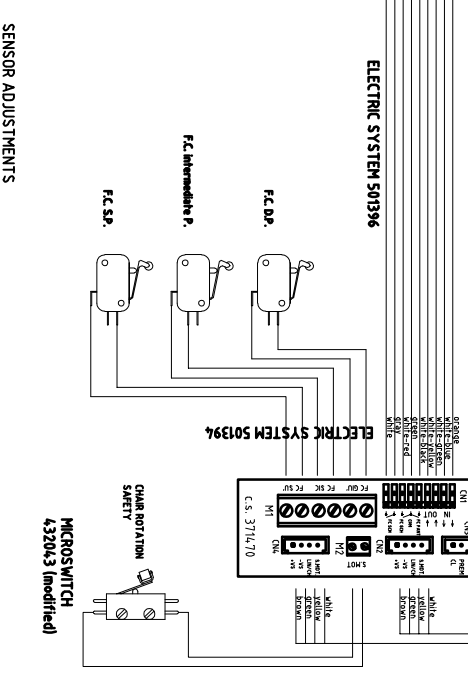


- WARNING SIGNS**
- Dental chair PCBboard 501352
  - DL1 LED - pantographic arm motor rev. sensor
  - DL2 LED - chair back motor rev. sensor
  - DL3 LED - chair back antirushing sensor
  - DL4 LED - press programming
  - DL5 LED - chair back photocell
  - DL6 LED - pantographic arm photocell
  - DL7 LED - zero position
  - DL8 LED - rinsing position
  - DL9 LED - selected memory
  - DL10 LED - reset programming
  - DL11 LED - bus communication
  - DL12 LED - pantographic arm down control (Arcadia only)
  - DL13 LED - pantographic arm up control (Arcadia only)
  - DL14 LED - chair back down control (Arcadia only)
  - DL15 LED - chair back up control (Arcadia only)
  - DL16 LED - chair back up limit switch
  - DL17 LED - chair back down limit switch
  - DL18 LED - pantographic arm up limit switch
  - DL19 LED - pantographic arm and back safety device
  - DL20 LED - pantographic arm down limit switch
  - DL21 LED - dental chair blocked
  - DL22 LED - table safety device
  - DL23 LED - bus communication
  - DL24 LED - pantographic arm down
  - DL25 LED - pantographic arm up
  - DL26 LED - pantographic arm motor on
  - DL27 LED - chair back up
  - DL28 LED - chair back motor on
  - DL29 LED - chair back down
  - DL30 LED - 230Vac main present



**SENSOR ADJUSTMENTS**

Pieceboard 501233	
TR1	Sensor sensitivity setup trimmer
DL1	LED - chair back sensor enabled



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DESCRIPTION	GENERAL DIAGRAM PUNTO NEW WITH UNIVERSAL TOP (TABLE 4/5)
MATERIAL	
DATE	29/05/2012
UPPER SECT.	
DRAWN BY	
MAT. CODE	
PRJ. CODE	
SCALE	
DWG. NO.	52054.7

# LIST OF DISPLAYED ERRORS

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
E016	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	pboards 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 pboard
E066	EEPROM error main pboard
E067	EEPROM error pushbutton panel pboard
E068	a touch is stuck in the instrument table pushbutton panel
E069	a touch is stuck in the assistant table pushbutton panel
E070	DAC 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
EL01	wash output short circuit
EL03	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 distilled/std. water exchange out
EB01	chair release piston output short circuit
EB03	short circuit to grounding system of chair release piston output

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DRAWN BY		PRJ. CODE	
SCALE		DWG. NO.	52054.7