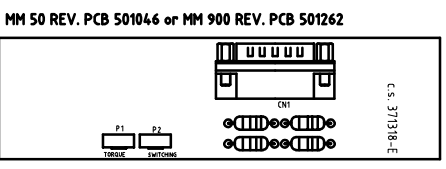
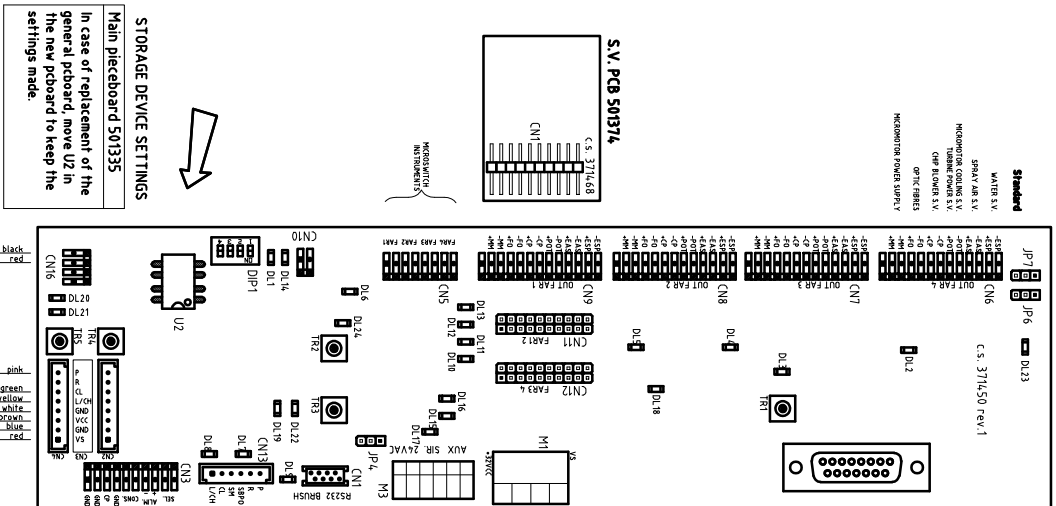


E000	foot control pboard is not connected or is malfunctioning
E001	pushbutton panel pboard is not connected or is malfunctioning
E002	pboard of the floor-mounted box not connected or malfunctioning
E003	pboard of the assistant table is not connected or is malfunctioning
E004	dental chair pboard is not 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 DMX
E009	power protection DMX
E010	motor phase missing DMX
E011	serial communication timeout DMX
E012	invalid EEPROM error DMX
E013	over temperature error DMX
E014	under voltage error DMX
E015	over voltage error DMX
E016	additional board disconnected (after startup) error DMX
E017	timeout with additional board error DMX
E018	invalid additional board version error DMX
E019	invalid EEPROM in additional board error DMX
E020	invalid mode error DMX
E021	not used (free)
E022	frame error DMX
E023	communication error between RS232 and DMX
E024	280DC power fuse broken (fuse F8)
E025	24AC power fuse 1 broken (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	overcurrent in branch 2, 24 AC
E032	switching overheated
E033	stabilised 28 DC voltage error
E034	rectified 28 DC voltage error
E035	24 AC voltage error
E036	lamp voltage error
E037	stabilised 24 DC voltage error
E038	overcurrent in branch 1, 24 AC
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	a touch is stuck in the assistant table pushbutton panel
E046	DAC error: dc micromotor and scaler
E047	overheating micromotor driver error
E048	battery error pedal wireless
E049	power solenoid valve short circuit
E050	short circuit power solenoid valve to grounding system
E051	water solenoid valve short circuit
E052	short circuit water solenoid valve to grounding system
E053	chip blower solenoid valve short circuit
E054	short circuit chip blower solenoid valve to grounding system
E055	spray solenoid valve short circuit
E056	short circuit spray solenoid valve to grounding system
E057	wash output short circuit
E058	short circuit wash output to grounding system
E059	shutter output short circuit
E060	short circuit shutter output to grounding system
E061	shutter output 1 short circuit
E062	short circuit shutter output 1 to grounding system
E063	shutter output 2 short circuit
E064	short circuit shutter output 2 to grounding system
E065	assistant call / open door output short circuit
E066	short circuit assistant call/open door output to grounding system
E067	suction output short circuit
E068	short circuit suction output to grounding system
E069	short circuit in distilled / standard water exchange output
E070	short circuit to grounding system of distilled/Std. water exchange out
E071	chair release piston output short circuit
E072	short circuit to grounding system of chair release piston output

LIST OF DISPLAYED ERRORS

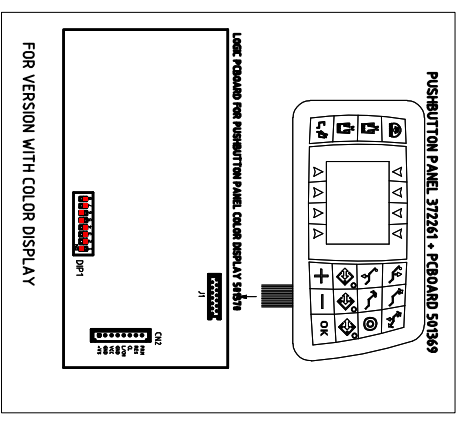
DIP-SWITCH SETTINGS (- = irrelevant)	ON	OFF
DSWI in main pboard 501335	configuration	normal
DIP 1 - dental unit mode	disabled	enabled
DIP 2 - hot water outlet for spraying on CN16	disabled	enabled
DIP 3 - dental chair movable with instruments relieved	ON	disabled
DIP 4 - assistant table model Universal Classic	enabled	disabled

MAIN PBOARD 501335

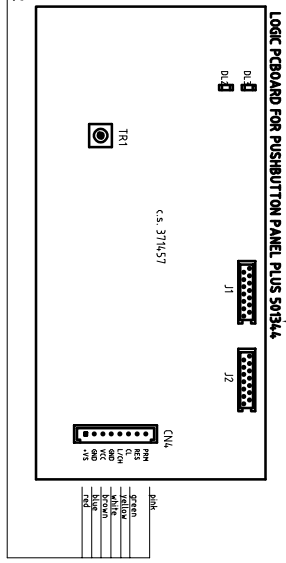
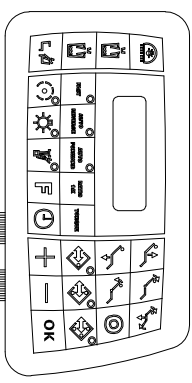


WARNING SIGNS	
DL1	free
DL2	LED - enable delivery unit 4
DL3	LED - enable delivery unit 3
DL4	LED - enable delivery unit 2
DL5	LED - enable delivery unit 1
DL6	LED - enable optic fibre
DL7	LED - SBPO out
DL8	LED - enable tooth scaler out
DL9	LED - analog exchange MM or tooth scaler out
DL10	LED - inlet 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 - preset for prog
DL21	LED - press for prog
DL22	LED in mot. safety dev.
DL23	LED - invert MM out
DL24	LED - delivery unit interlock output

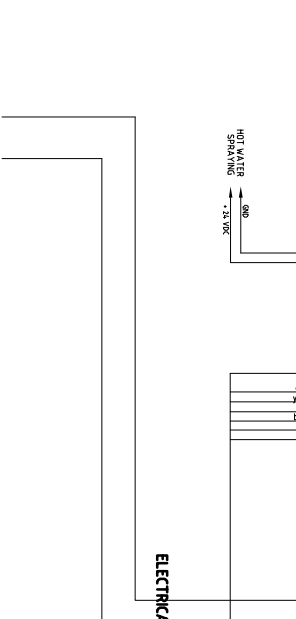
ADJUSTMENTS		
Main pboard 501335	TR1	Optic fibre light intensity
TR4 e TR5	free	
Micromotor pboard 50 rev. 501046 and 900 rev. 501262	P1	Analog 1-to-digital switching
	P2	Micromotor torque
Logic pboard 501344 and 501346	TR1	Display contrast adjustment



FOR INSTALLATION BRUSHLESS MICROMOTOR SEE DIAGRAM 520535  
 PUSHBUTTON PLUS 312262 + PBOARD 501344



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



ELECTRICAL SYSTEM 501379

DESCRIPTION	UNIVERSAL PL GENERAL DIAGRAM (TABLE 1/4)
MATERIAL	
DATE	17/04/2014
DRAWN BY	
SCALE	
UPPER SECT.	
MAT. CODE	
PRJ. CODE	
DWG. NO.	520560

REV.1 UPDATED ON 17/03/2017  
 OMS  
 CABLE IN SEAWATER  
 (PVC) -DMX-  
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**CUP AND SPITTOON TIME SETUP**

**Water group pcbboard 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.

**WARNING SIGNS**

Water unit pcbboard 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 - partalization S.V. out
	DL18	LED - water exchange S.V. out
	DL19	LED - par2 out

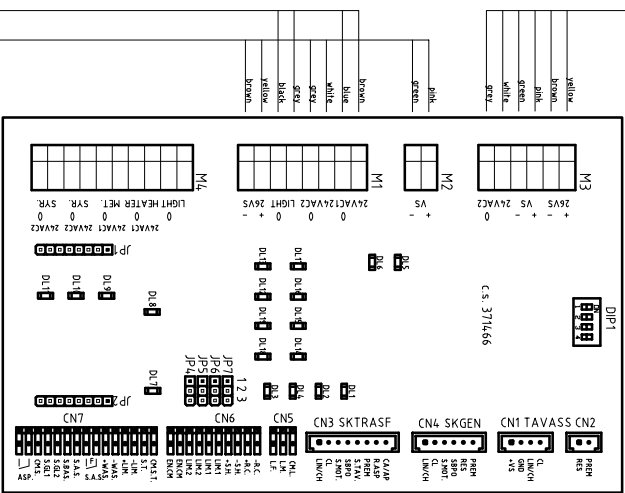
**JUMPER AND ADJUSTMENTS**

Water unit pcbboard 501372	JP4, JP5	1-2 closed; N.O. contact is obtained in E/C PAR2 (LHM2) of CN6
	JP6, JP7	1-2 closed; N.O. contact is obtained in E/C PAR2 (LHM2) of CN6
		2-3 closed; N.O. contact is obtained in E/C PART (LHM1) of CN6

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

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

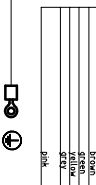
**WATER UNIT PCBBOARD 501372**



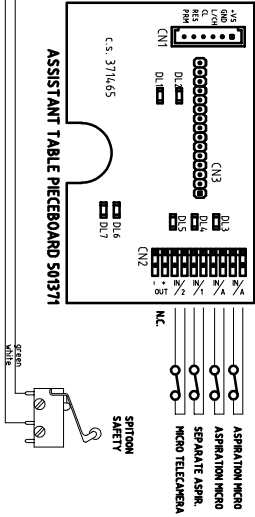
**ELECTRICAL SYSTEM 501387**



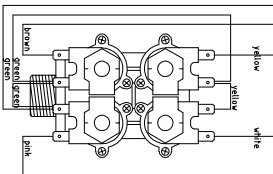
**ELECTRICAL SYSTEM 501378**



**ELECTRICAL SYSTEM 501378**



**ELECTRICAL SYSTEM 501397**



**WARNING SIGNS**

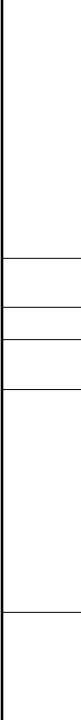
Assistant Table pcbboard 501371	DL1	LED - Press for Flashing
	DL2	LED reset ext per col.
	DL3	LED - ASP cannulas 1
	DL4	LED - ASP cannulas 2
	DL5	LED - enable camera out
	DL6	LED flashing with LIN bus active
	DL7	LED flashing if program is being correctly executed

REV.1 UPDATED ON 17/03/2017

UNIVERSAL PL GENERAL DIAGRAM (TABLE 2/4)

<b>DESCRIPTION</b>	UNIVERSAL PL GENERAL DIAGRAM (TABLE 2/4)
<b>MATERIAL</b>	
<b>DATE</b>	17/04/2014
<b>DRAWN BY</b>	
<b>SCALE</b>	
<b>UPPER SECT.</b>	
<b>MAT. CODE</b>	
<b>PRJ. CODE</b>	
<b>DWG. NO.</b>	520560

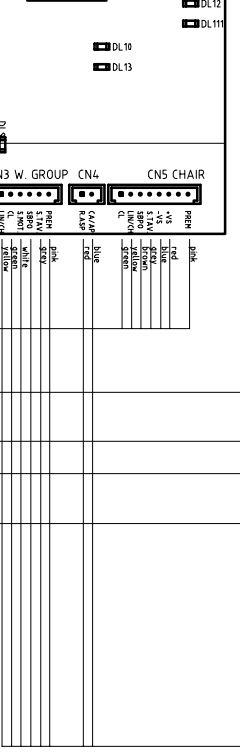
**ELECTRICAL SYSTEM 501385**



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



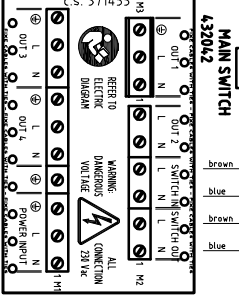
**TRANSFORMER PIECEBOARD 501373**

TOROID TRANSFORMER 500VA, 433024

230V ac

**ELECTRIC SYSTEM 501395**

**TERMINAL PIECEBOARD 501351**



FUSE HOLDER 10A code 430713  
FUSE: 8AT code 430727

SUCTION PUMP OUTPUT  
230V ac 3.5A

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

**ELECTRIC SYSTEM 501393**

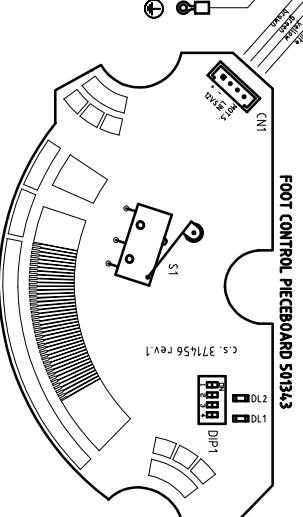
**FUSES**

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

**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 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
DL1	LED - inputs active
DL2	LED - BUS active

**FOOT CONTROL CABLE 501246**



**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

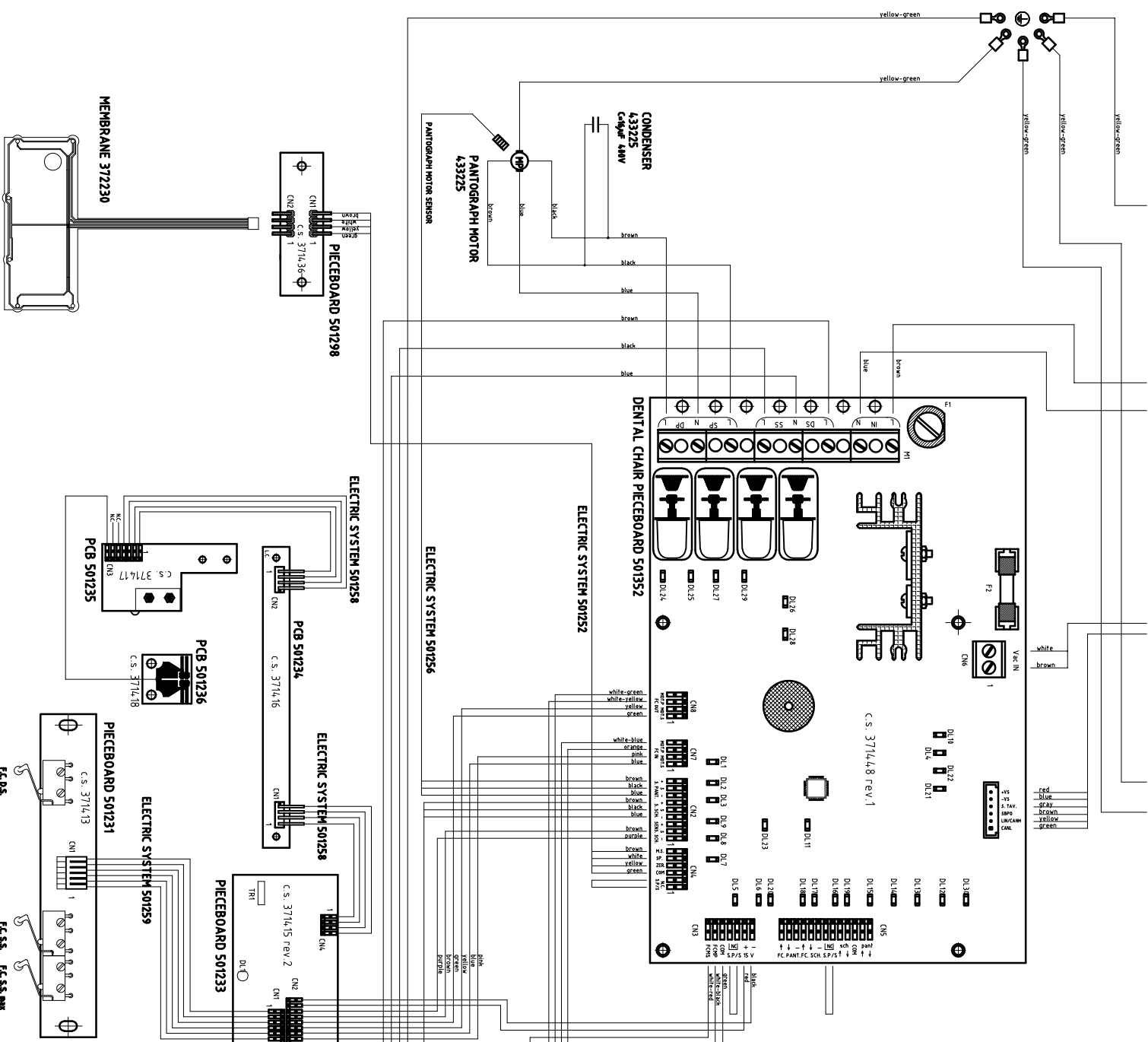
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OMIS S.p.A. - Via S. Giovanni, 1 - 20139 Milano - Italy  
Tel. +39 02 57491 - Fax +39 02 57492  
E-mail: omis@omis.it - www.omis.it

**CABLE IN SERVIZIO (OMIS) - ITALY**

OMIS guarantees all motor systems on the market for a period of 24 months from the date of purchase and allows replacement or repair without prior consultation.

DESCRIPTION	UNIVERSAL PL GENERAL DIAGRAM (TABLE 3/4)
MATERIAL	
DATE	17/04/2014
DRAWN BY	
UPPER SECT.	
MAT. CODE	
PRJ. CODE	
DWG. NO.	520560



**WARNING SIGNS**

Dental chair pieceboard 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 - home position
DL8	LED - rising 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 - 230V ac main present

**SENSOR ADJUSTMENTS**

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

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DESCRIPTION	UNIVERSAL PL GENERAL DIAGRAM (TABLE 4/4)
MATERIAL	
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PRJ. CODE	
SCALE	
DWG. NO.	520560

