

- LD1 (BU) ~ HALL Base (Lift) Output Signalisation (ON if motor running correctly)
- LD2 (BU) ~ Backrest Run
- LD3 (BU) ~ Safe Backrest (ON if is no collisions)
- LD4 (BU) ~ Backrest Direction
- LD5 (BU) ~ HALL Base (Lift) Output Signalisation (ON if motor running correctly)
- LD6 (BU) ~ HALL Backrest Output Signalisation (ON if motor running correctly)
- LD7 (GN) ~ uPC OK (Program running correctly)
- LD8 (GN) ~ Lift Safety OK (ON if is no collisions)
- LD9 (BU) ~ HALL Backrest Output Signalisation (ON if motor running correctly)
- LD10 (BU) ~ Base (Lift) Run
- LD11 (BU) ~ Safe Base (ON if is no collisions)

- LD12 (BU) ~ Base (Lift) Direction
- LD13 (GN) ~ CAN BUS Power
- LD14 (GN) ~ Hall Power
- LD15 (BU) ~ Valve Cup
- LD16 (BU) ~ Valve Bowl
- LD17 (BU) ~ Valve Bottle of Distilled Water
- LD18 (BU) ~ Valve of Central Water
- LD19 (BU) ~ START IN (for Foot Controller with Start Button)
- LD20 (BU) ~ Cup IN
- LD21 (BU) ~ Safe Bowl
- LD22 (BU) ~ Bowl IN

- LD23 (BU) ~ Safe Assistant
- LD24 (BU) ~ Bowl State (Bowl park position)
- LD25 (BU) ~ Bottle IN
- LD26 (BU) ~ Cup State (Presence of the Cup)
- LD27 (BU) ~ Central IN
- LD28 (GN) ~ XENOS POWER
- LD29 (GN) ~ VALVES POWER
- LD30 (GN) ~

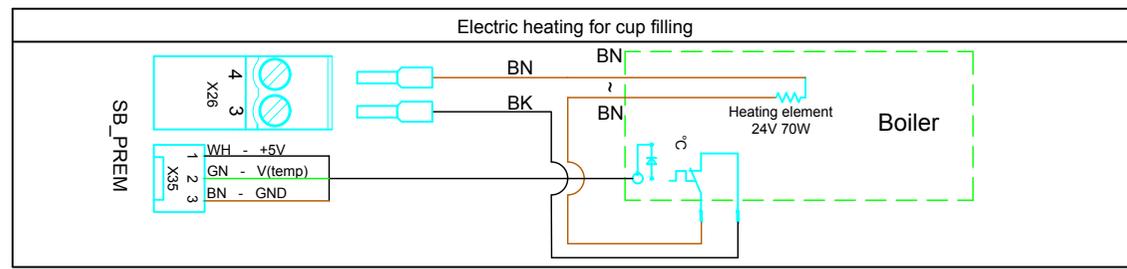
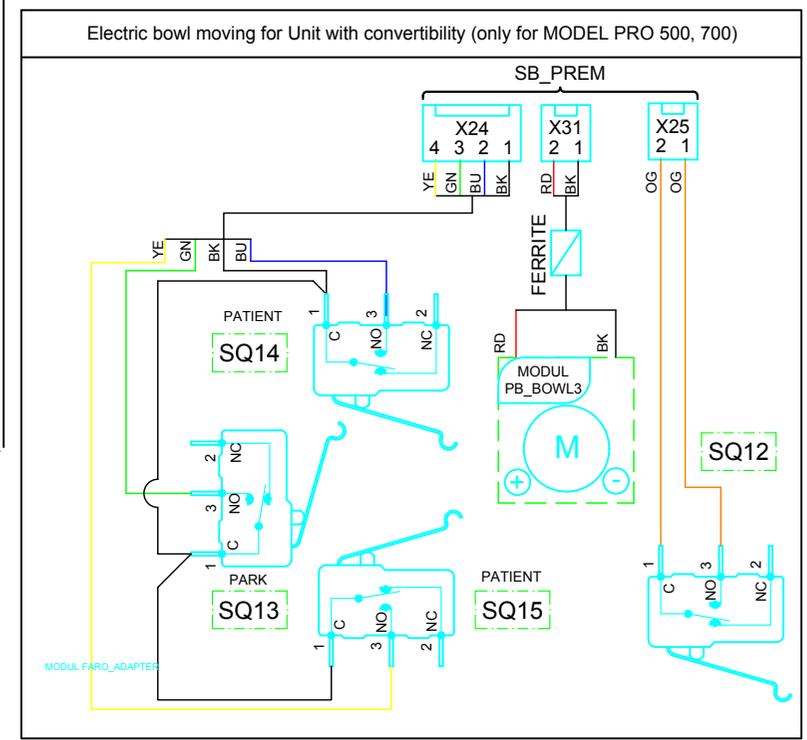
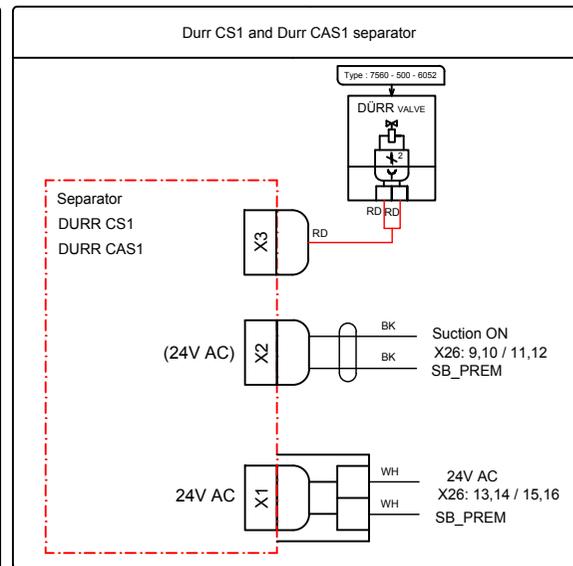
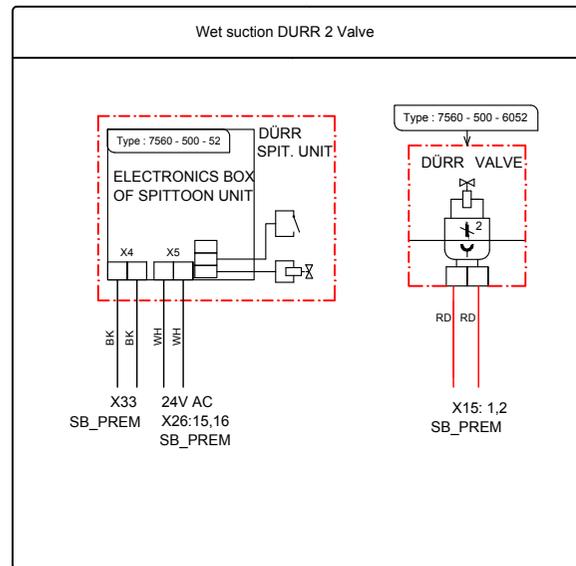
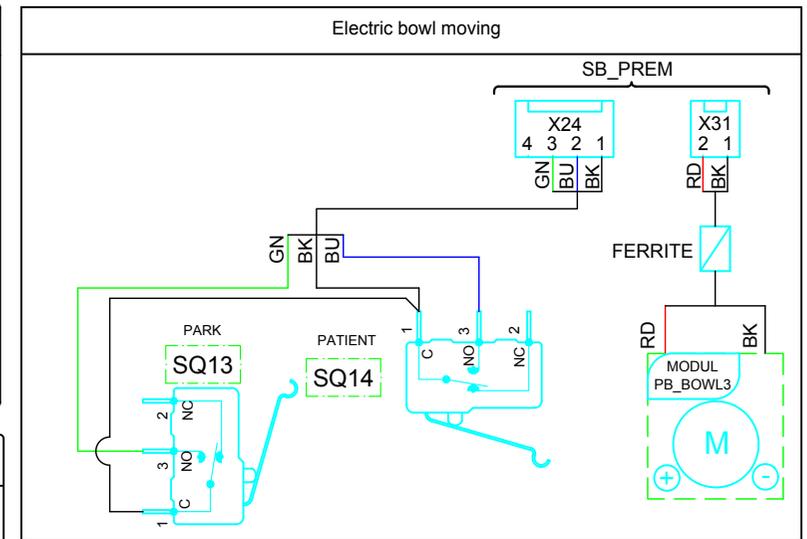
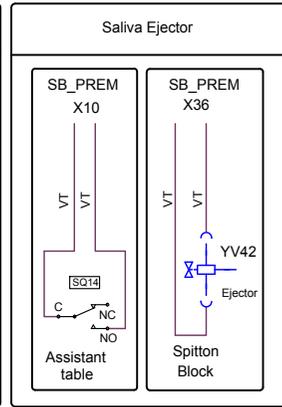
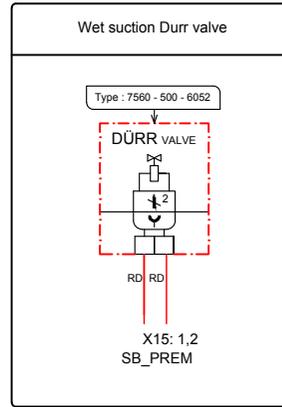
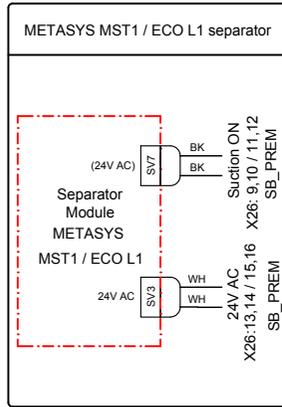
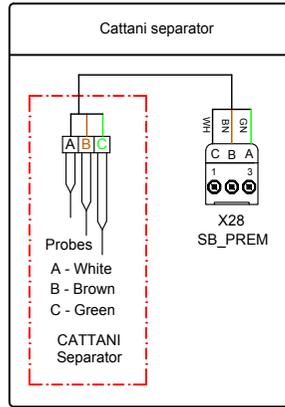
- SW1 ~ UP Chair / Right Backrest
- SW2 ~ DOWN Chair / Left Backrest

Factory reset:
 PUSH and hold SW1+SW2 for 5 sec and then restart Dental Unit ->
 Release buttons -> Wait for 5 min ->
 Restart Dental Unit

- Push SW1 + SW2 after one beep change control between base and backrest motor
 - Hold SW1 + SW2 until it sounds two beeps to chair calibration

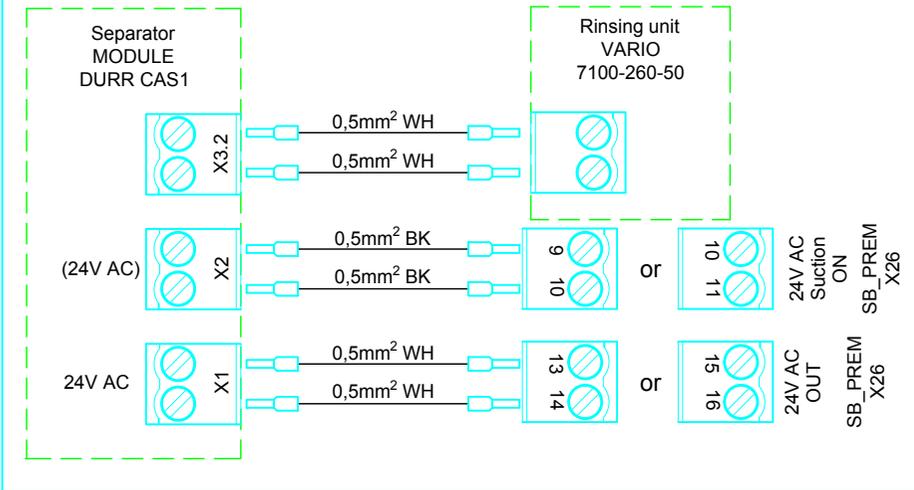
SQ5 - Safety lift
 SQ6 - Safety backrest

Wiring diagram of the Spittoon Block - Suction systems, Bowl moving, Boiler in spittoon block used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (29.1.2022)

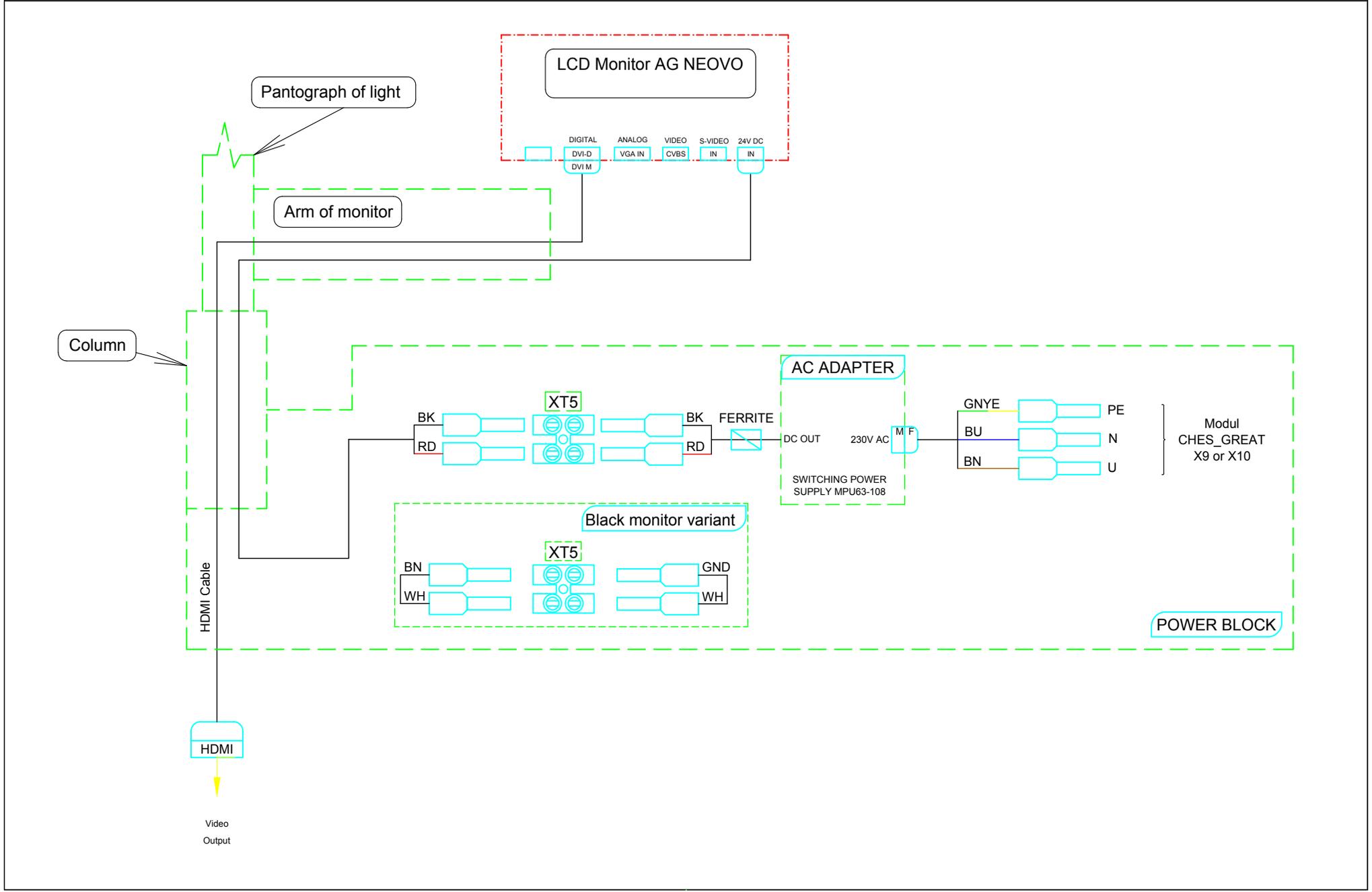


Wiring diagram of the Spitton Block - Suction systems, rinsing unit for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (17.1.2022)

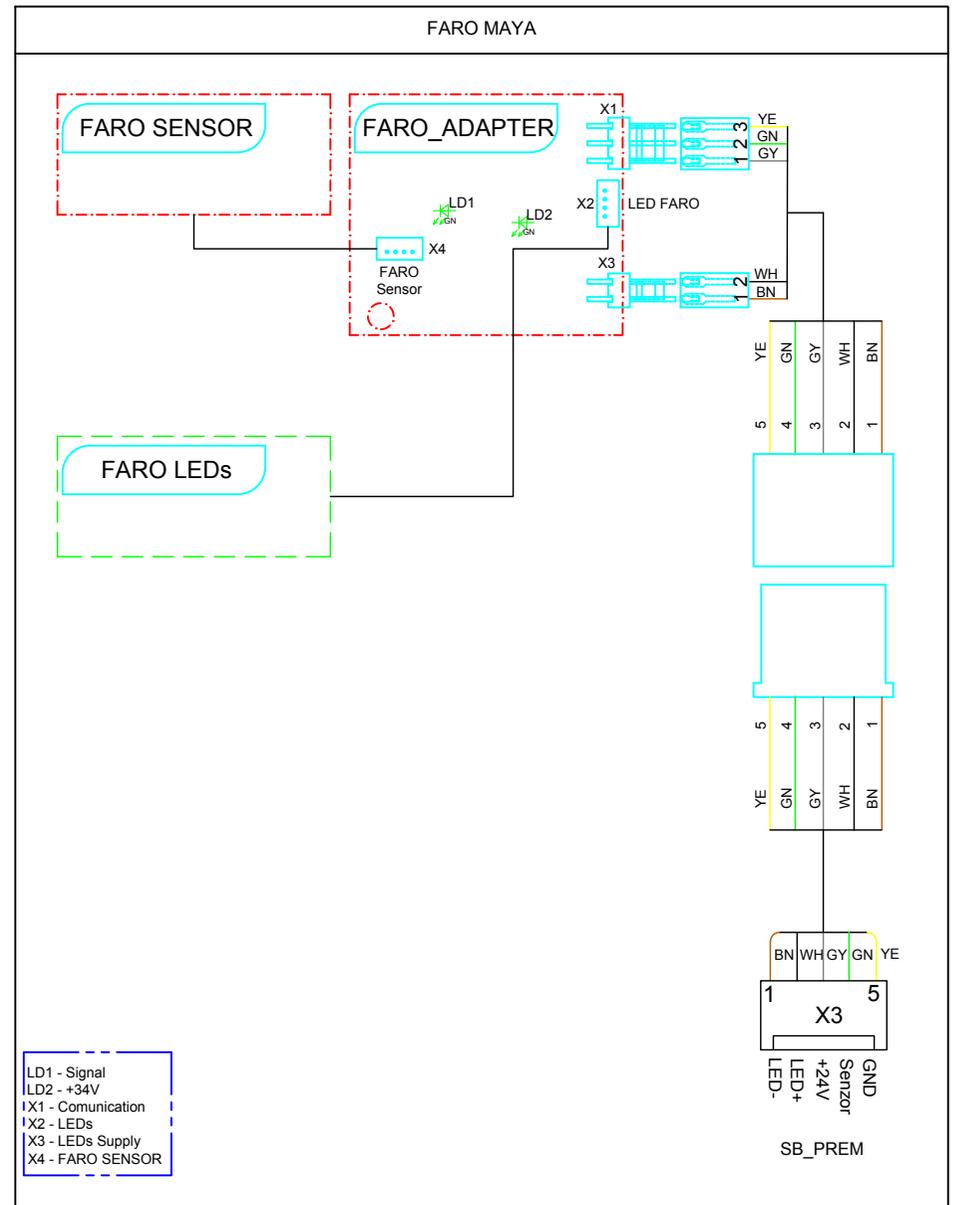
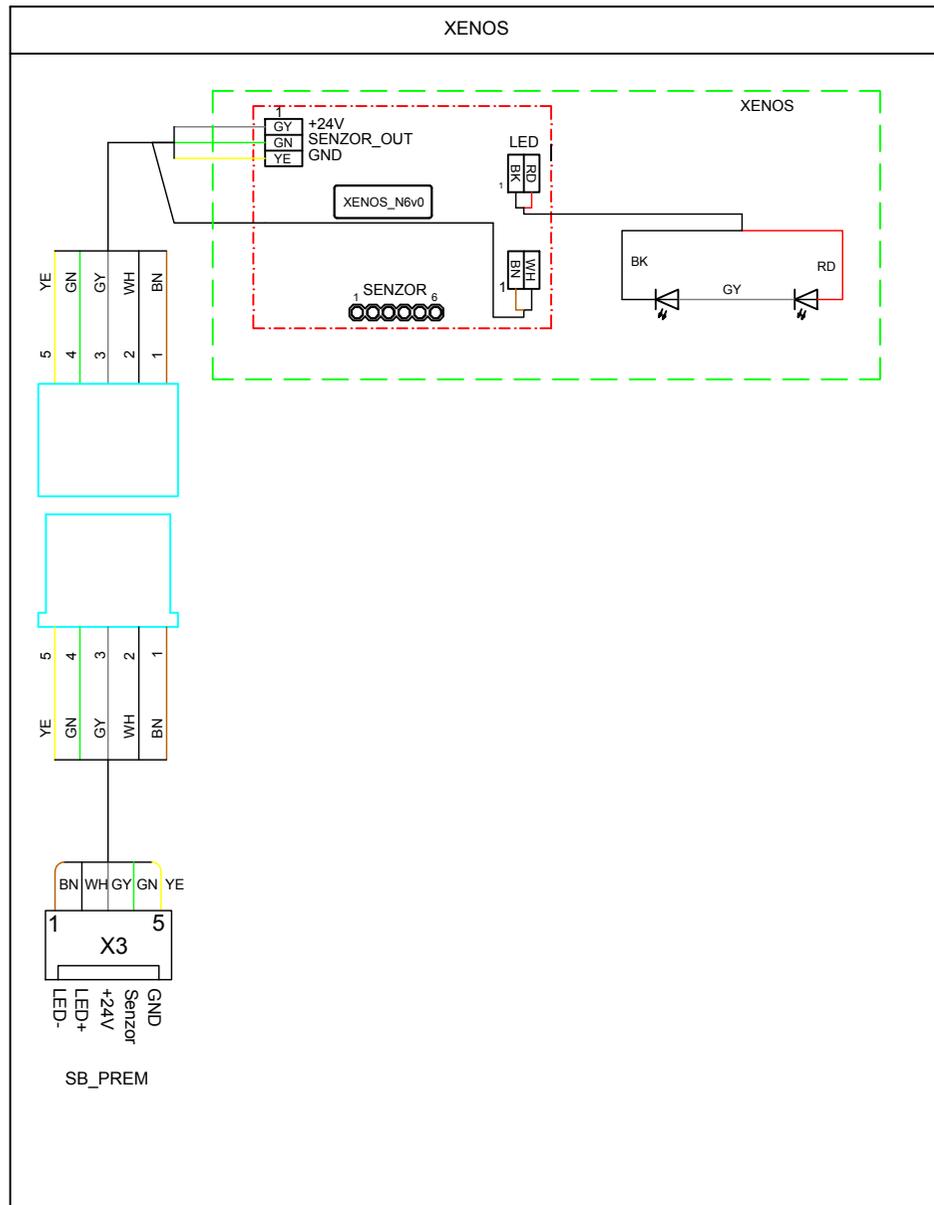
Durr CAS1 separator with VARIO rinsing unit



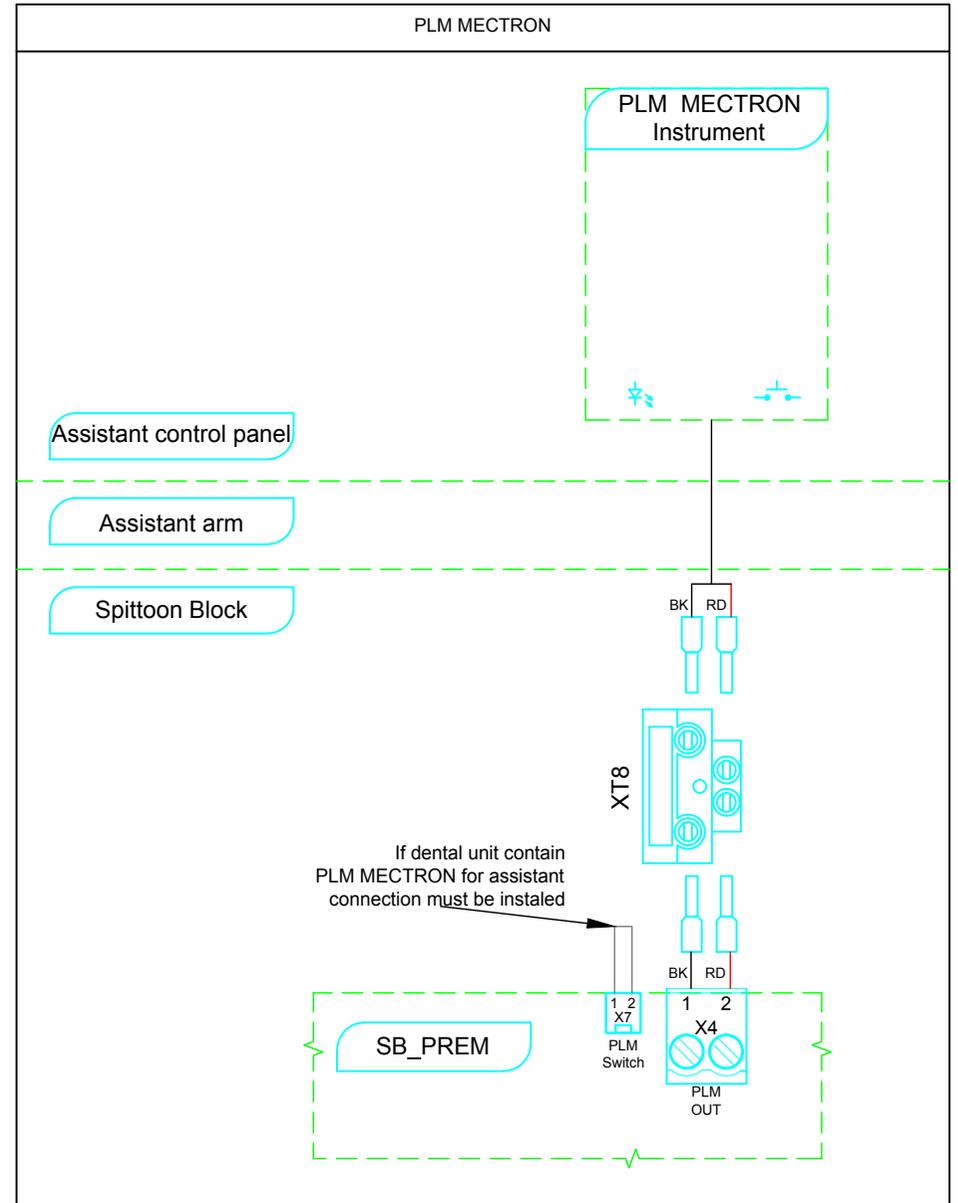
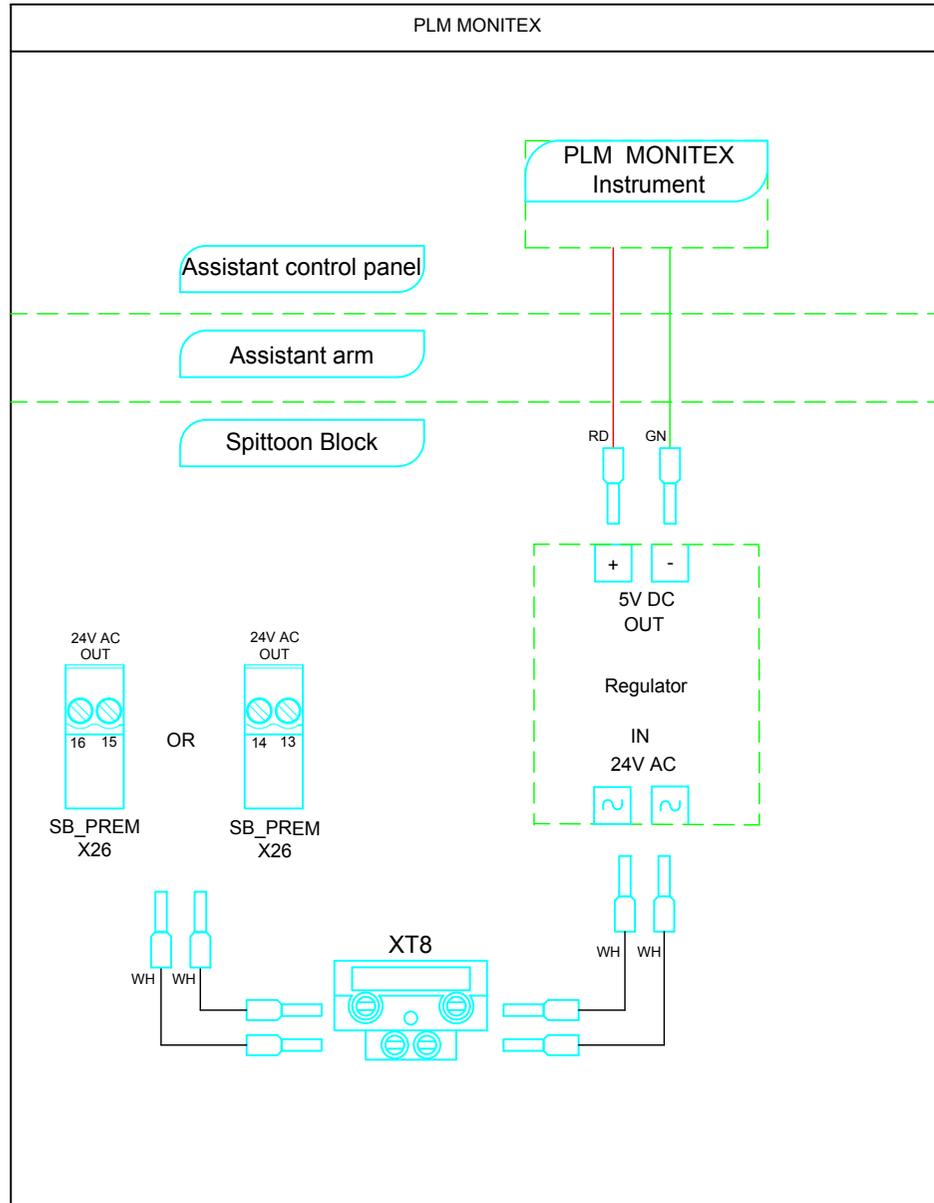
Wiring diagram of the Power Block - Monitor power supply in power block used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)



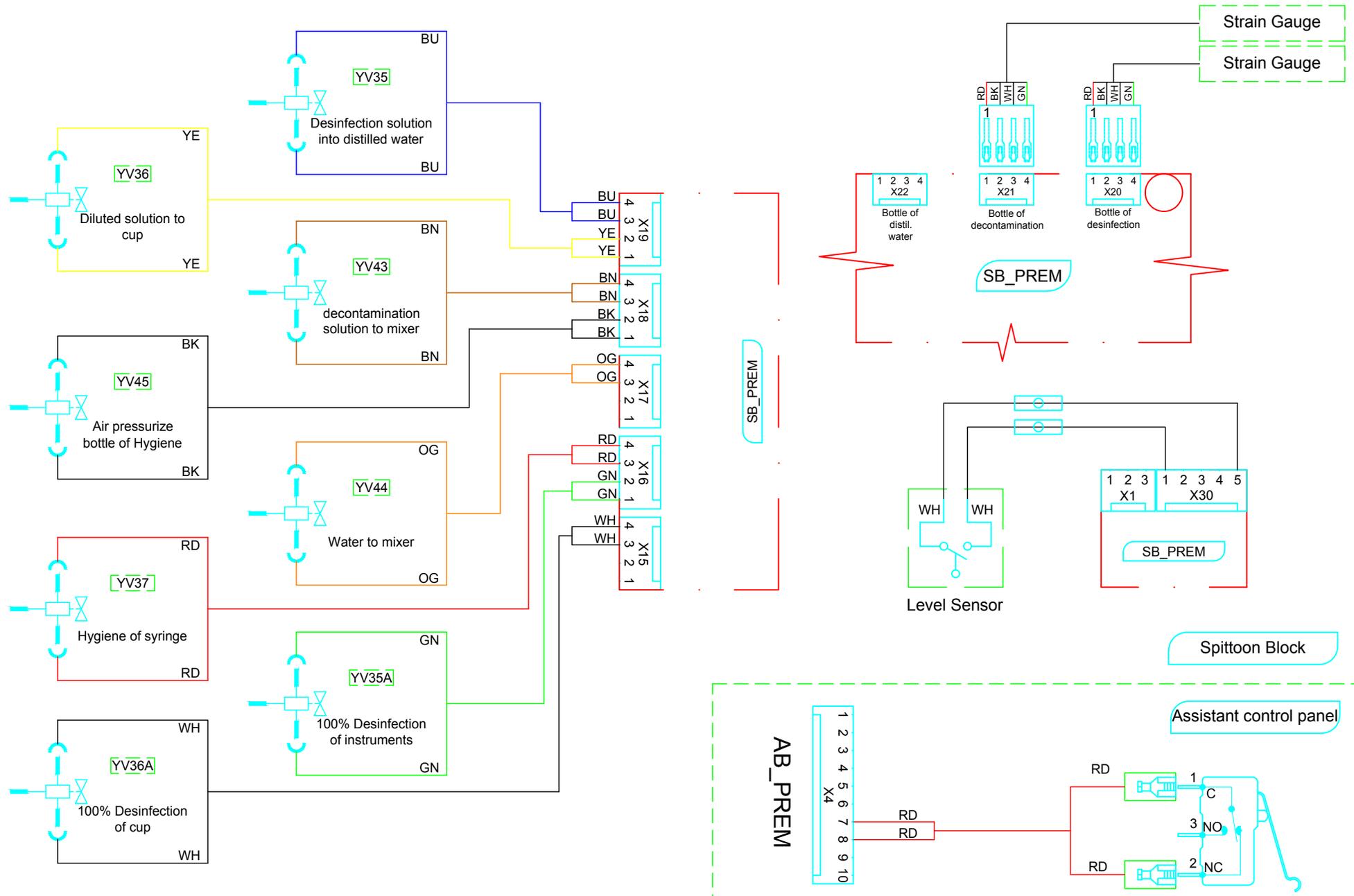
Wiring diagram of the Spittoon Block - Dental Light used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (17.1.2022)



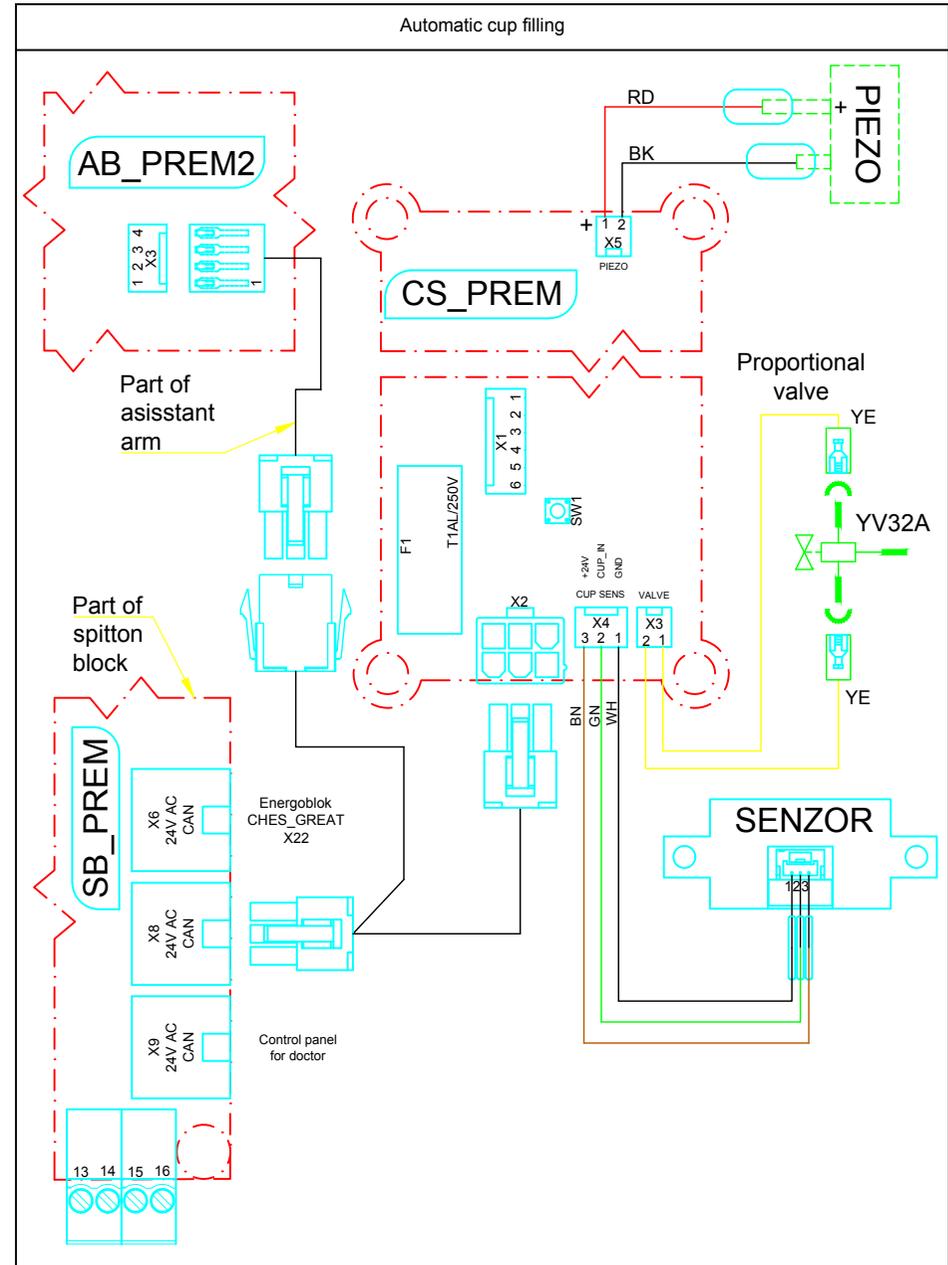
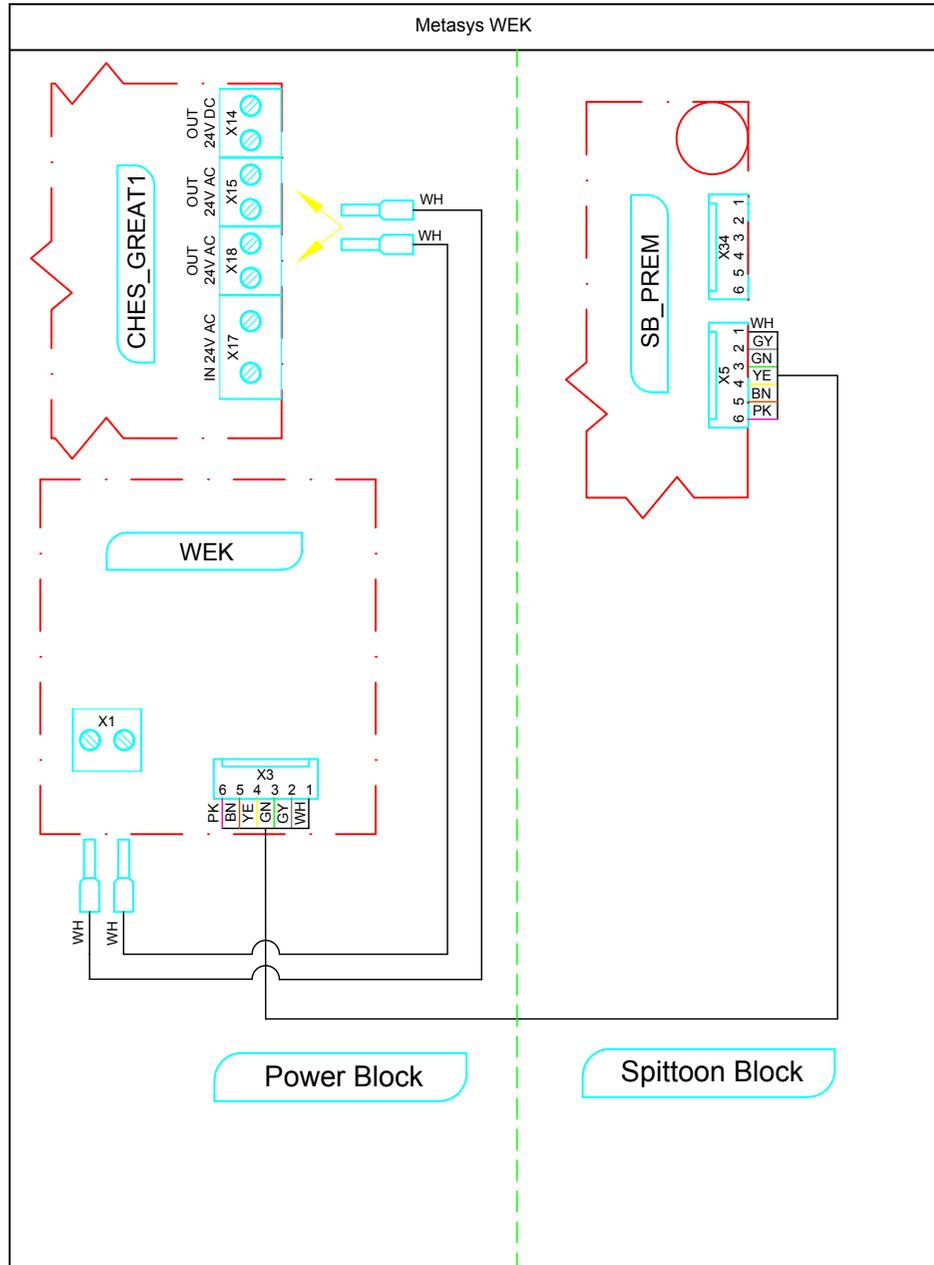
Wiring diagram of the Spittoon Block and Assistant Arm - PLM Lamps used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (24.5.2021)



Wiring diagram of the Spittoon Block and Assistant Arm - Hygiene used for
 MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
 MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (7.7.2022)

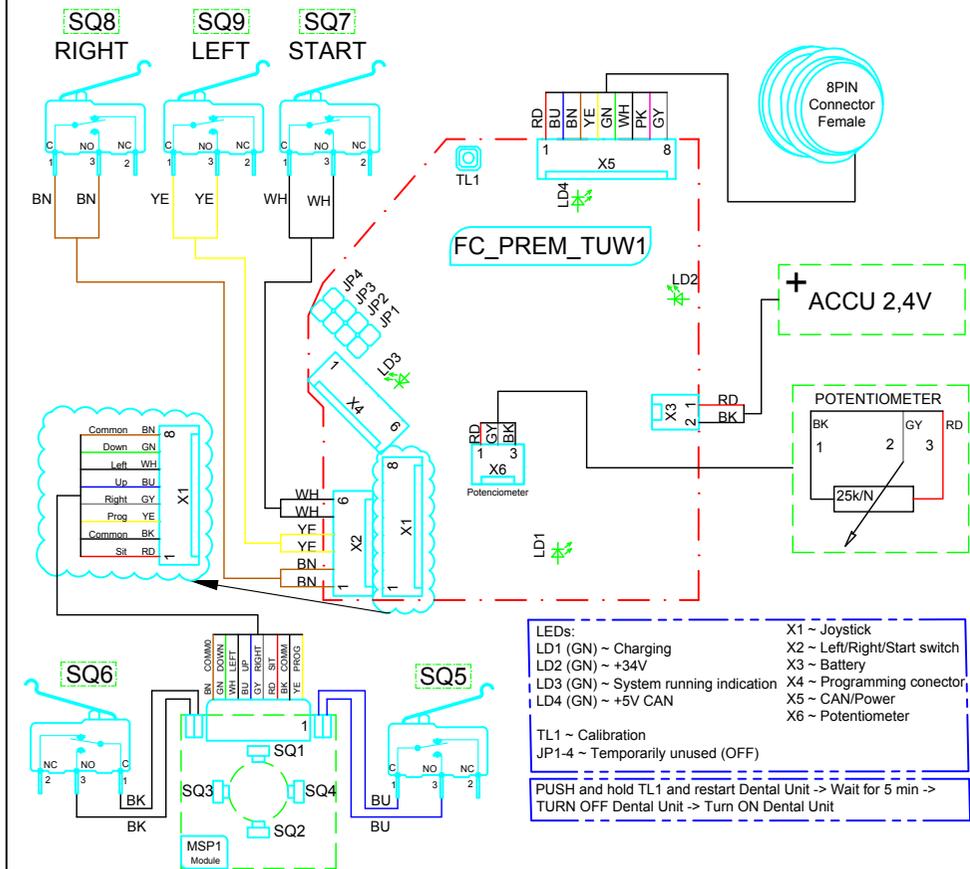


Wiring diagram of the Spittoon Block and Power Block - Metasys WEK, automatic cup filling used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (8.7.2022)

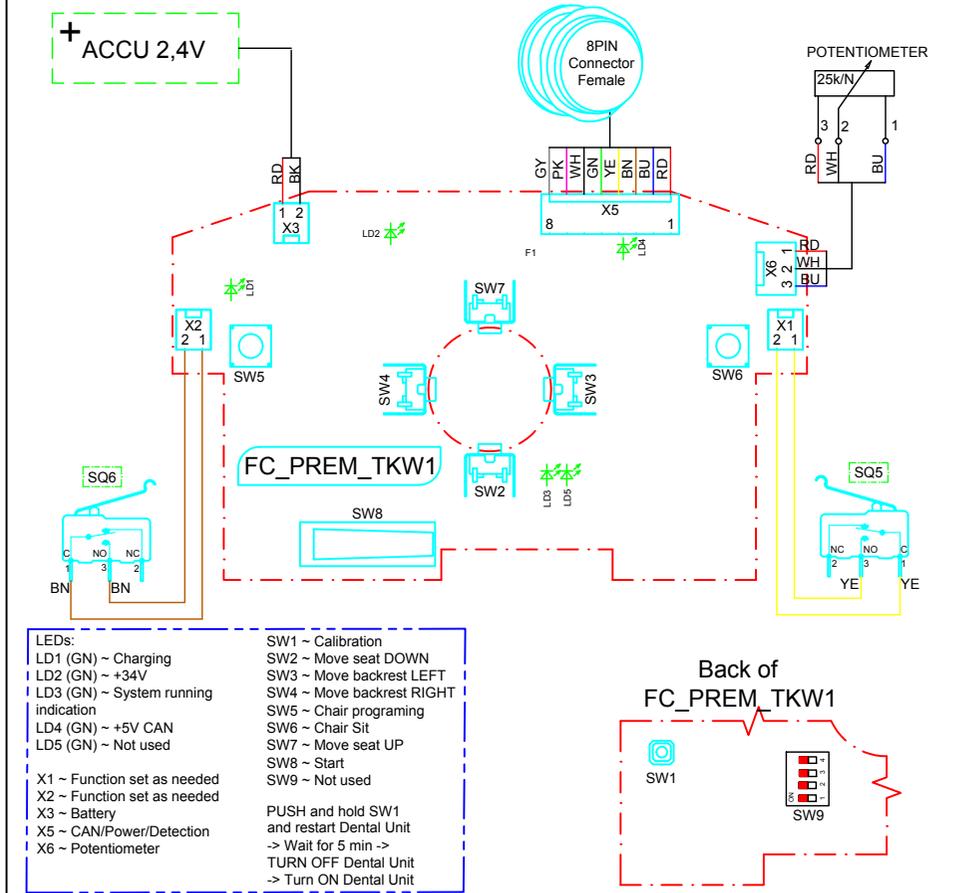


Wiring diagram of the Foot Controller - Wireless foot controllers used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (7.7.2022)

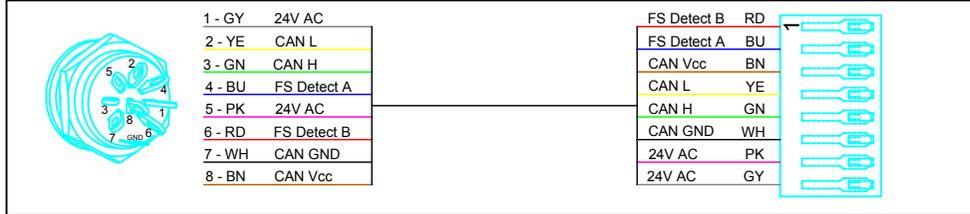
Foot Controller UNO



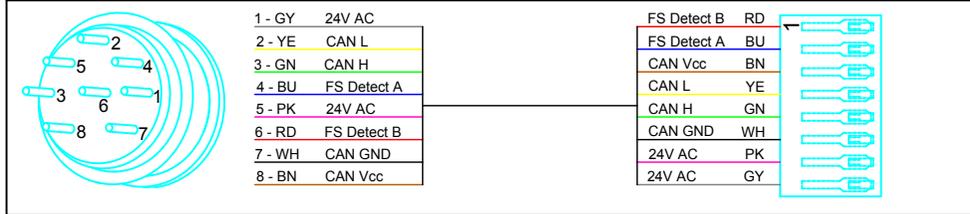
Foot Controller NOK



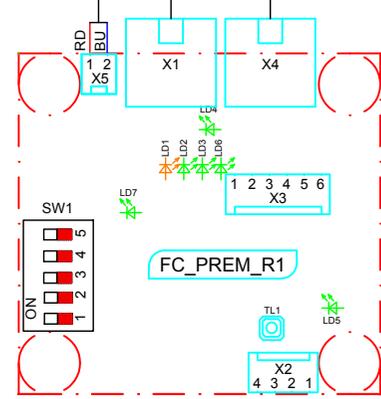
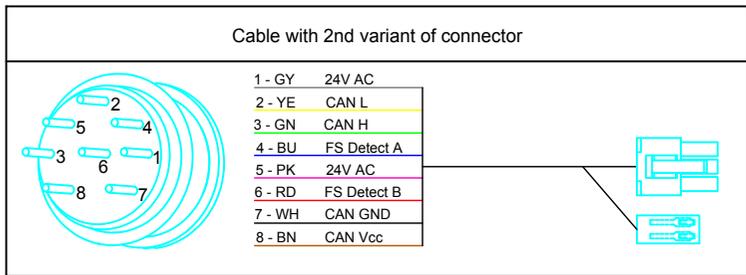
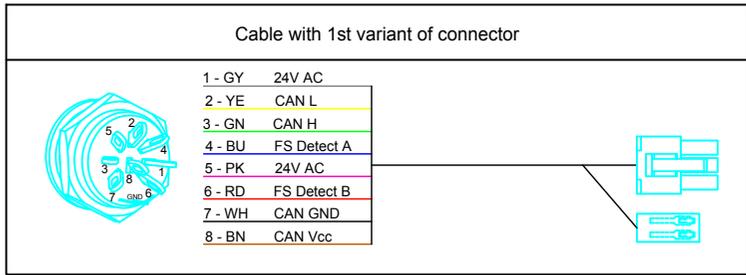
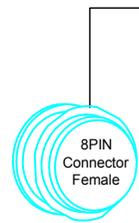
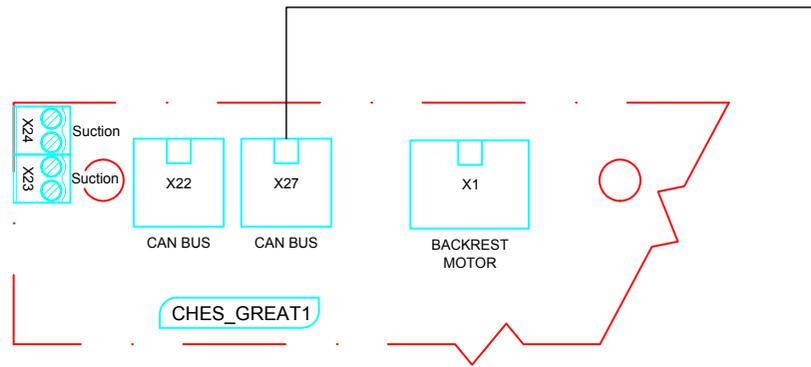
Cable with 1st variant of connector



Cable with 2nd variant of connector



Wiring diagram of the Power Block - Receiver for wireless foot controllers used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (7.7.2022)

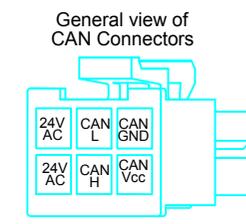
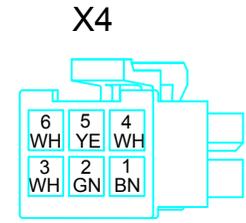
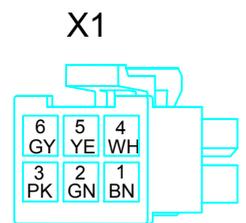


PUSH and hold TL1 and restart Dental Unit -> Wait for 5 min -> TURN OFF Dental Unit -> Turn ON Dental Unit

LEDs:
 LD1 (OG) ~ Communication
 LD2 (GN) ~ Not used
 LD3 (GN) ~ Not used
 LD4 (GN) ~ +5V
 LD5 (GN) ~ Successfully paired
 LD6 (GN) ~ System running indication
 LD7 (GN) ~ Charger cable in

TL1 ~ Pairing Button (only for economy)
 SW1 ~ Not used (OFF)

X1 ~ CAN output for Foot controller
 X2 ~ Pairing Button (only for economy)
 X3 ~ Programming connector
 X4 ~ CAN Input from power block module
 X5 ~ Foot Controller Detect (functionality test - connect pins with jumper the LED will light up)

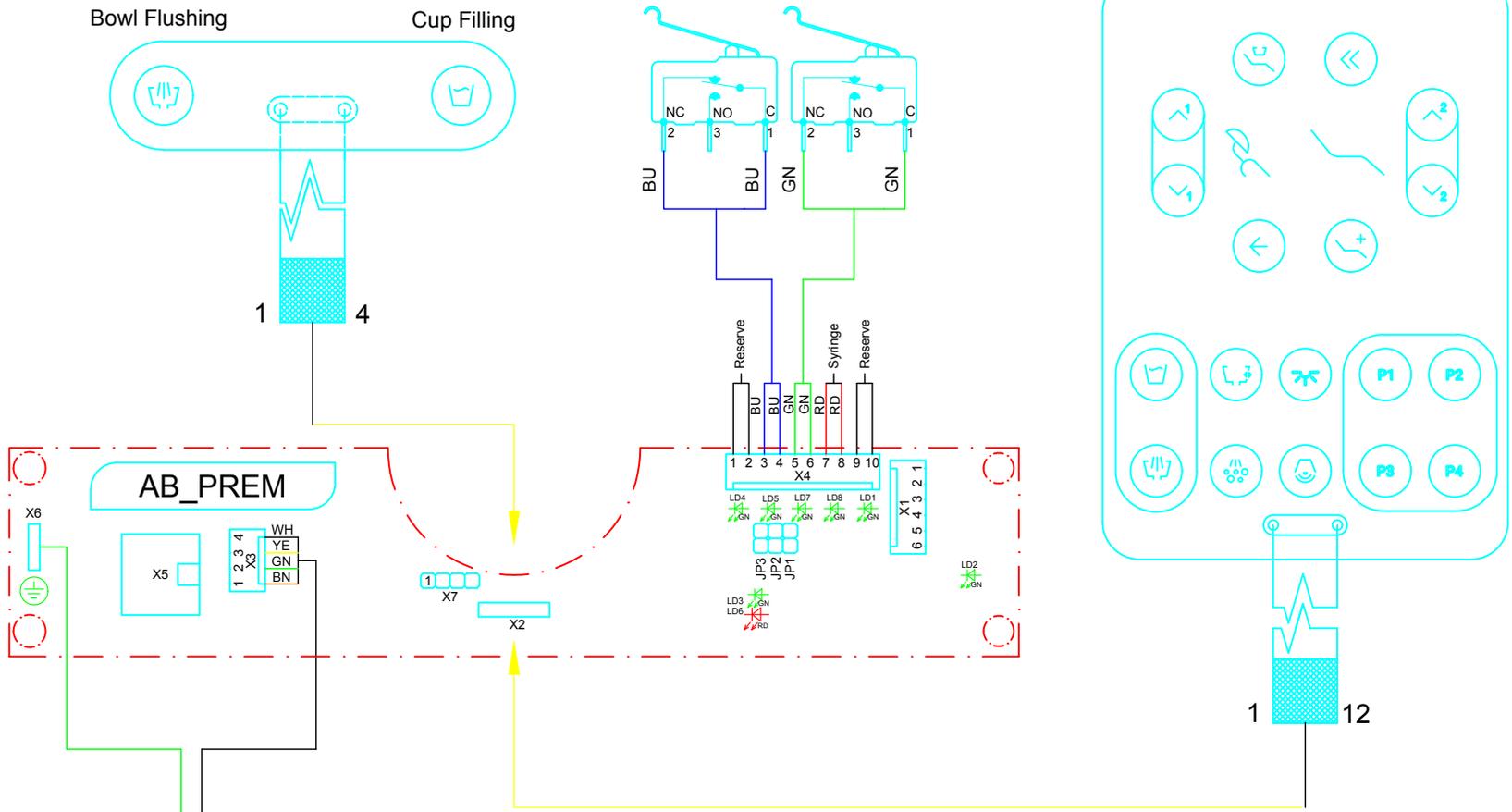


Wiring diagram of the Assistant Panel - Modul in assistant panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (11.5.2021)

- LEDs:**
 LD1 (GN) ~ Reserve
 LD2 (GN) ~ +3V3
 LD3 (GN) ~ System running indication
 LD4 (GN) ~ Reserve
 LD5 (GN) ~ Big Aspirator In
 LD6 (GN) ~ Reserve
 LD7 (GN) ~ Small Aspirator In
 LD8 (GN) ~ Syringe In
- JP1,3 ~ Temporarily unused (OFF)
- X1 ~ Not used
 X7 ~ Not used
- Turn ON JP2 -> Restart Dental Unit
 -> Wait for 5 min -> Turn OFF Dental Unit -> Turn OFF JP2 -> Turn ON Dental Unit)

Bowl Flushing Cup Filling

Big Aspirator Small Aspirator



Assistant panel

Spittoon Block

SB_PREM
X9

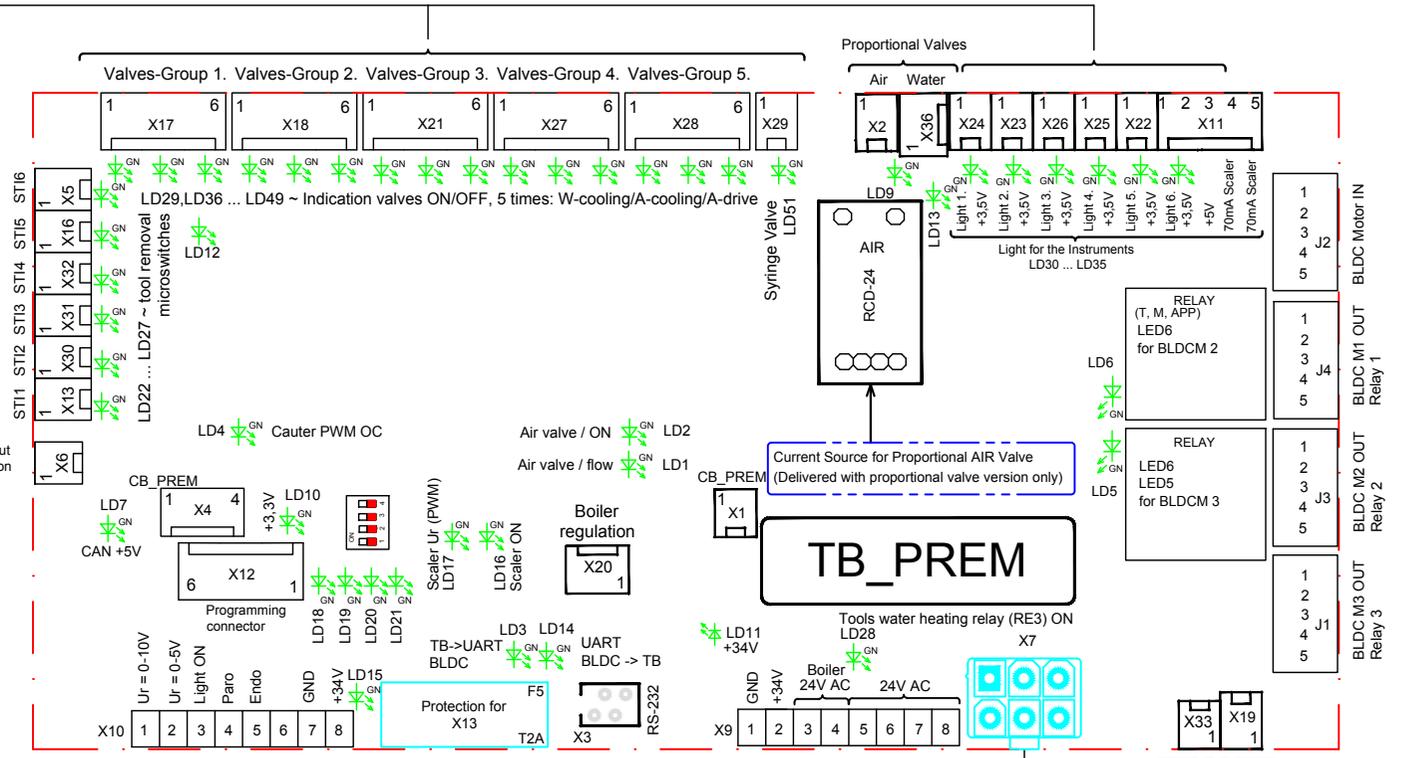
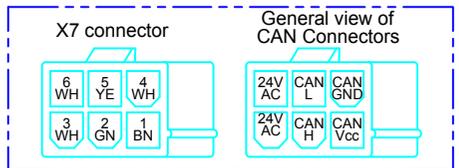
**Wiring diagram of the Control Panel - Modul TB_PREM in control panel used for
 MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
 MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (7.7.2022)**

- BK - Black (čierna)
- BN - Brown (hnedá)
- BU - Blue (modrá)
- GN - Green (zelená)
- GNYE - Green/Yellow
- GY - Grey (sivá)
- OG - Orange (oranžová)
- PK - Pink (ružová)
- RD - Red (červená)
- VT - Violet (fialová)
- WH - White (biela)
- YE - Yellow (žltá)

- Functionally related parts**
- Valves-Group 1. (Connector X17)
- Light 1. (Connector X24)
 - Valves-Group 2. (Connector X18)
- Light 2. (Connector X23)
 - Valves-Group 3. (Connector X21)
- Light 3. (Connector X26)
 - Valves-Group 4. (Connector X27)
- Light 4. (Connector X25)
 - Valves-Group 5. (Connectors X28)
- Light 5. (Connector X22)
 - Valves-Group 6. (Connectors X29)
- valve for hygiene syringe
 - Light 6. (Connector X11)

- LD5 ~ BLDC relay 1 ON
- LD6 ~ BLDC relay 2 ON
- LD7 ~ CAN +5V
- LD8 ~ Power Good for Scaler
- LD9 ~ Water servo - Control
- LD11 ~ +34V
- LD12 ~ +24V
- LD13 ~ Water servo - Power
- LD15 ~ +34V / Scaler
- LD16 ~ Scaler ON
- LD17 ~ Scaler Ur (PWM) (Intensity of LED depends on output intensity of Ur)
- LD18 ~ Scaler Light
- LD19 ~ Scaler Paro
- LD20 ~ Scaler Endo
- LD21 ~ Scaler Start

- 1 ~ Normal OFF - If table not contain motors turn ON
- 2 ~ Normal OFF - Factory reset (Turn ON DIP SW2 -> Restart Dental Unit -> Wait for 5 min -> Turn OFF Dental Unit -> Turn OFF DIP SW2 -> Turn ON Dental Unit)
- 3 ~ Normal OFF - not used
- 4 ~ Normal OFF - not used



Control Panel - Base

Pantograph of the Control Panel

Pillar

Spittoon Block / Power Block / Pillar Base

Bundle of the Control Panel

Communication and 24V AC
 SB_PREM X6, X8, X9
 Spittoon Block

Wiring diagram of the Control Panel - Modul CB_PREM, USB_PREM and BT_BUTTON in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (7.7.2022)

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- WH - White (biela)
- YE - Yellow (žltá)

- LD1 (GN) ~ Power Supply indication +5V
- LD2 (GN) ~ Board supply indication +3V3
- LD3 (GN) ~ USB present indication
- LD4 (GN) ~ CAN bus supply indication +5V
- LD5 (GN) ~ Write to USB indication
- LD6 (GN) ~ Temporarily unused
- LD7 (BU) ~ Bluetooth connection indication
- LD8 (RD) ~ All Error indication
- LD9 (YE) ~ Heartbeat - system run indication
- LD10 (GN) ~ Write to SD card indication
- LD11 (GN) ~ SD card present indication

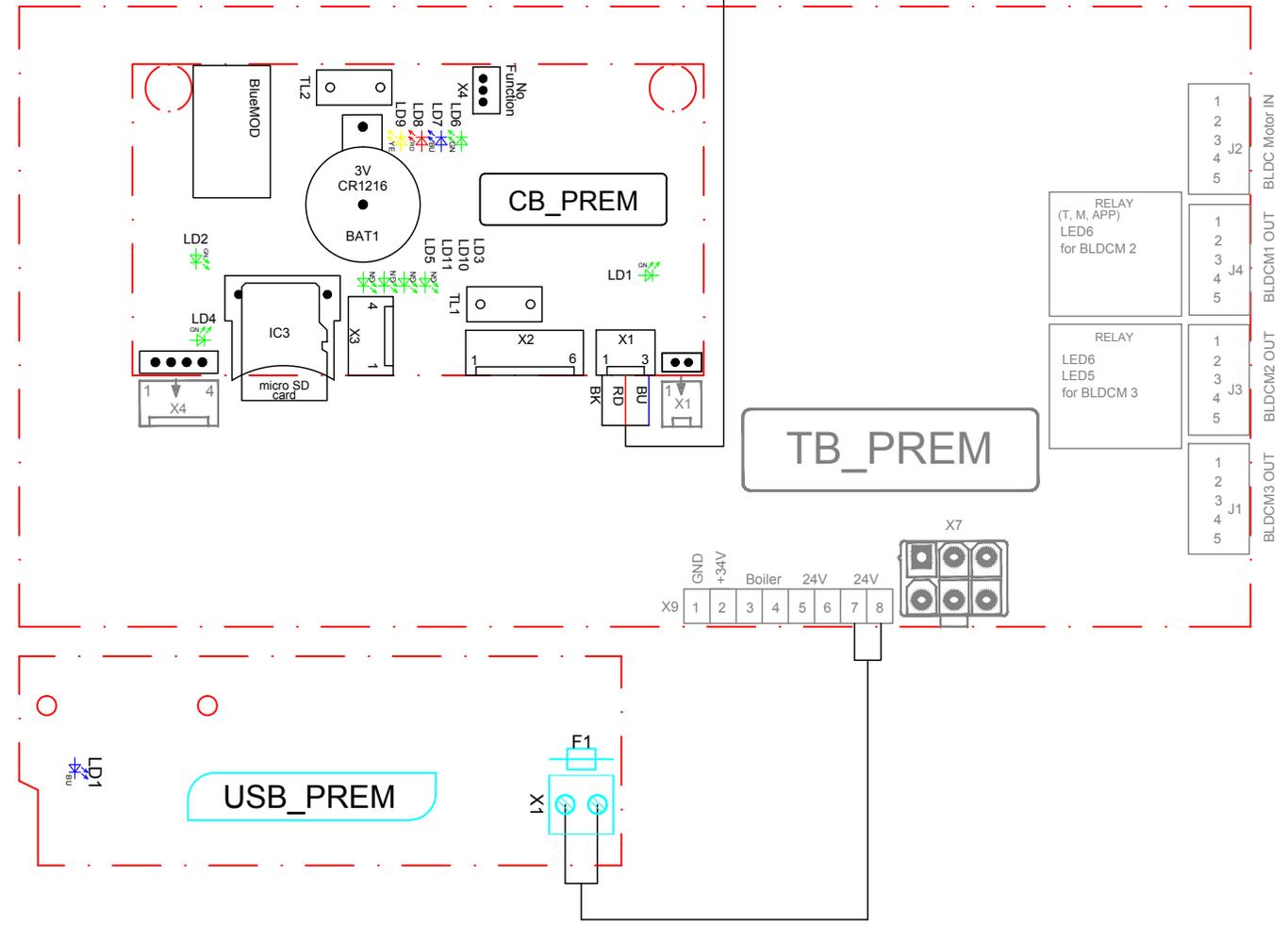
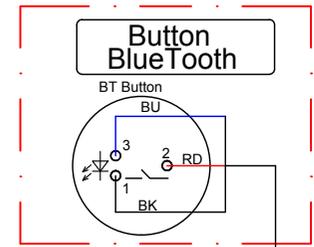
LED on BT button
 Blinking - not connected
 Permanently lit - connected

TL1 ~ Board Reset
 TL2 ~ Factory reset (Hold ON TL2 at the same time press TL1 and release buttons -> Wait for 5min -> Restart Dental Unit)

X1 ~ BlueTooth Button
 X2 ~ Programming
 X3 ~ USB (Temporarily unused)
 X4 ~ Temporarily unused

USB_PREM:

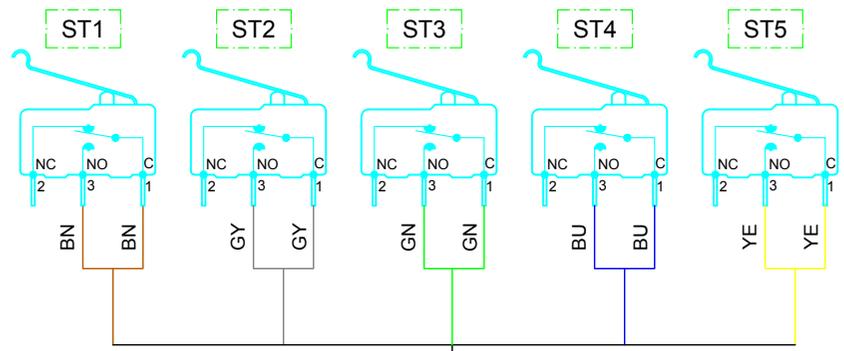
LD1 (BU) ~ Power Supply indication +5V



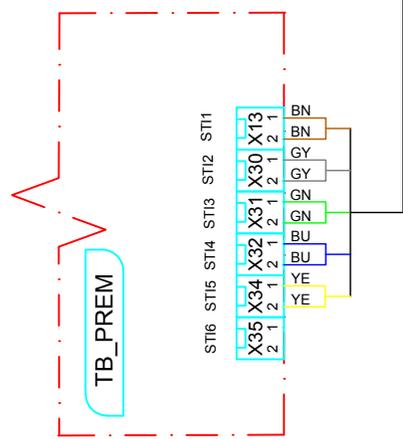
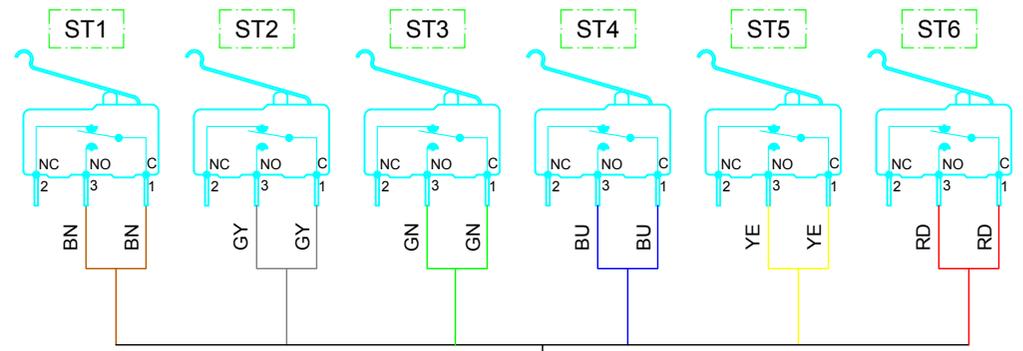
Wiring diagram of the Control Panel - Connection of the taking-off sensors in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)

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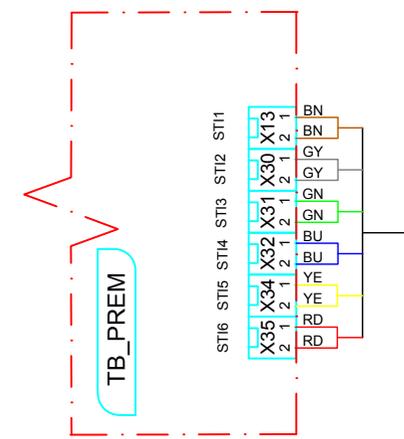
Control panel with 5 instruments,
upper hose delivery



Control panel with 6 instruments,
upper hose delivery



Note: if dental unit not contain hygiene
do not connect syringe switch

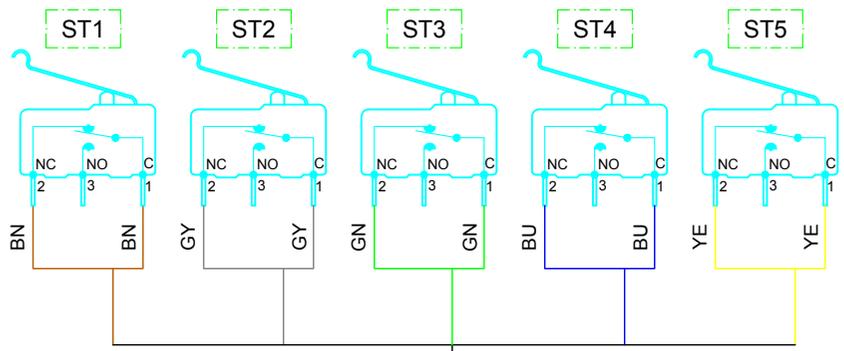


Note: if dental unit not contain hygiene
do not connect syringe switch

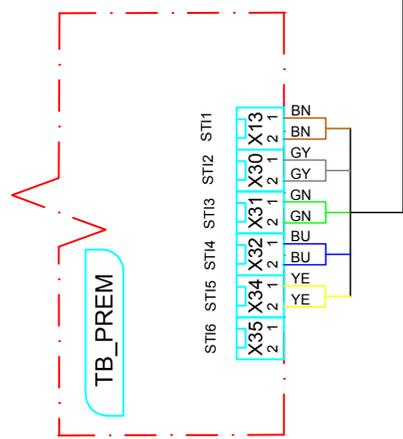
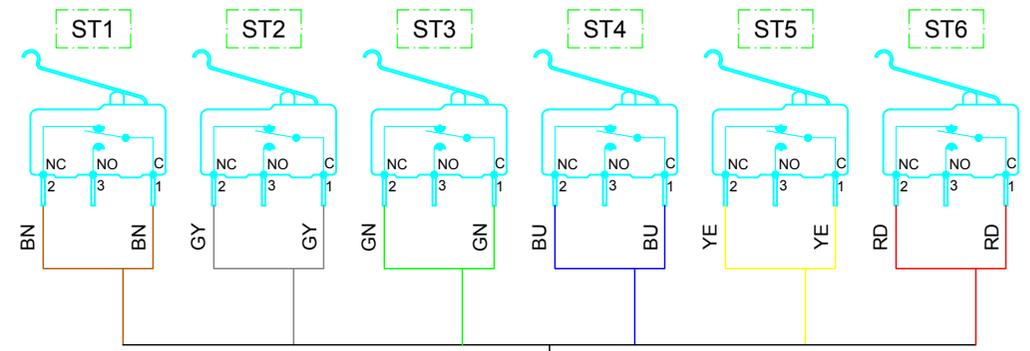
Wiring diagram of the Control Panel - Connection of the taking-off sensors in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (1.4.2021)

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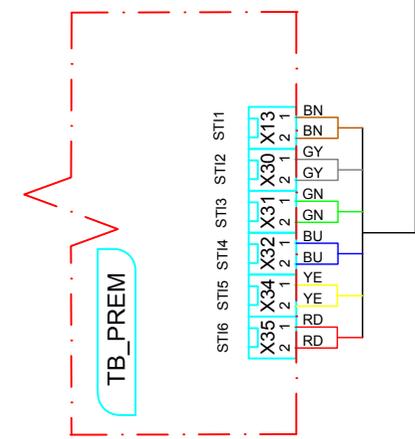
Control panel with 5 instruments,
lower hose delivery



Control panel with 6 instruments,
lower hose delivery



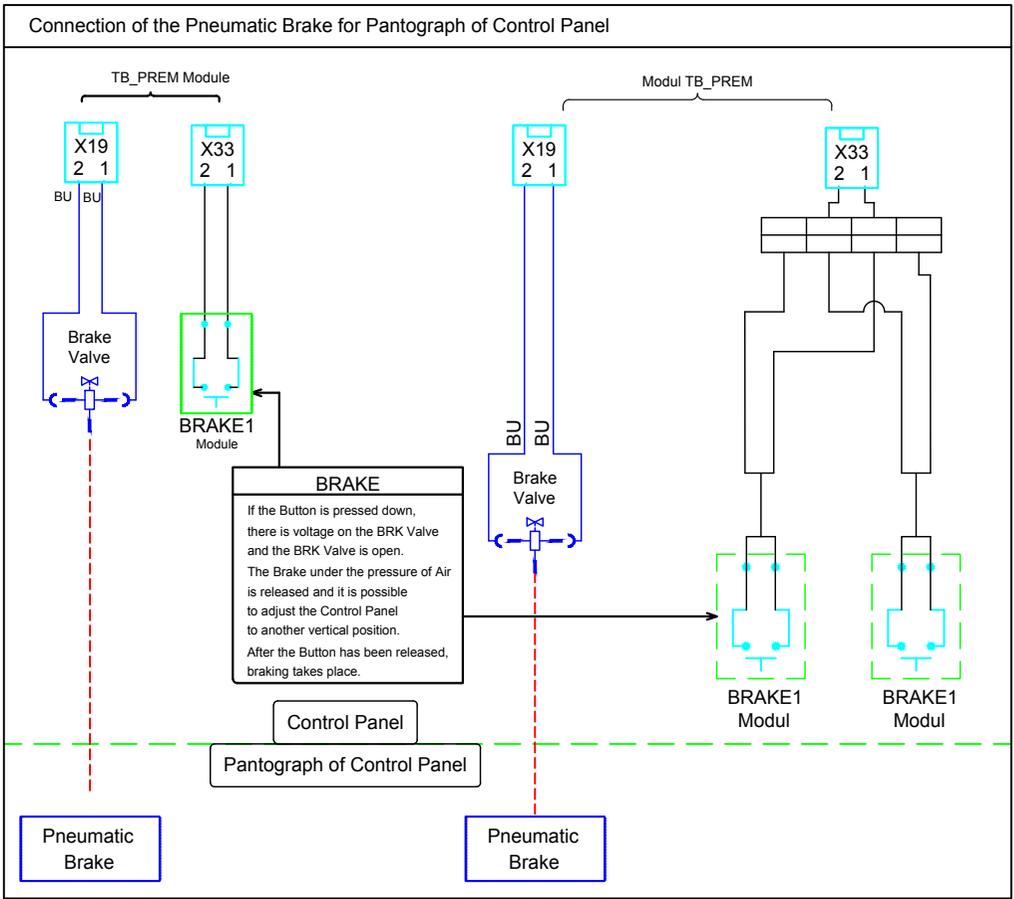
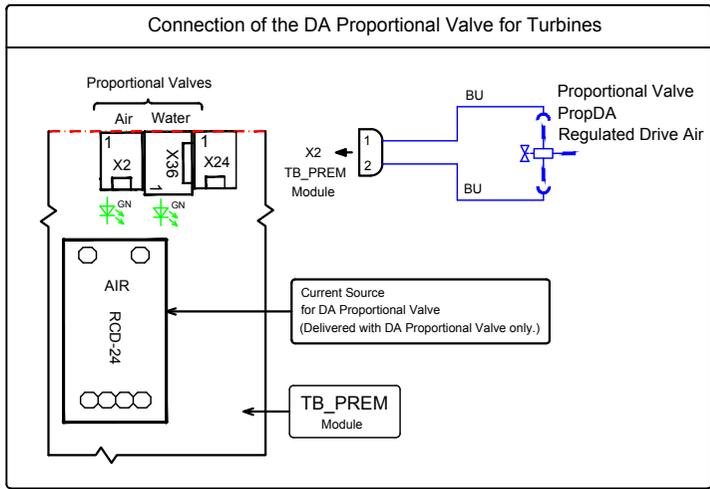
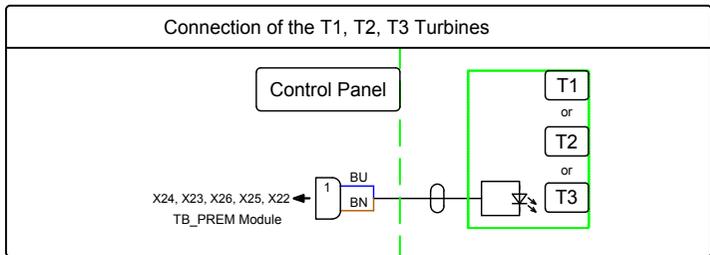
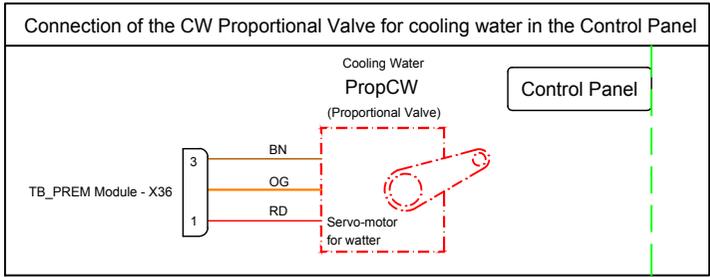
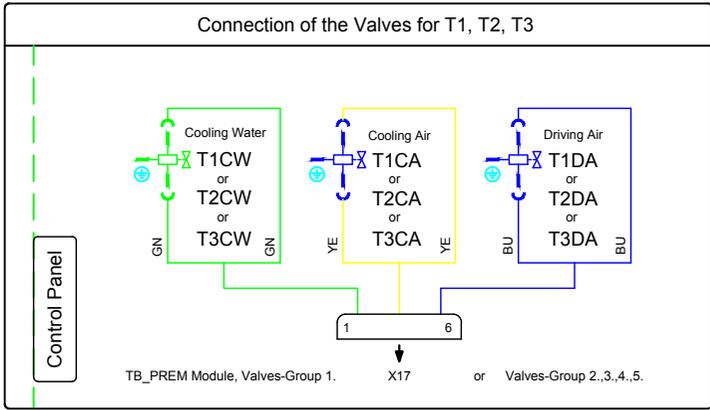
Note: if dental unit not contain hygiene
do not connect syringe switch



Note: if dental unit not contain hygiene
do not connect syringe switch

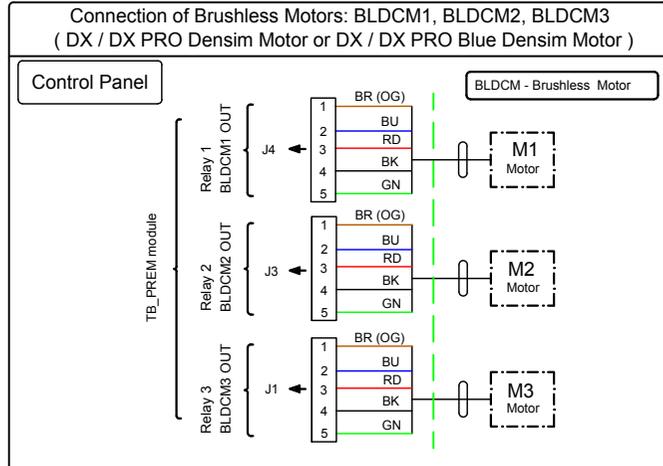
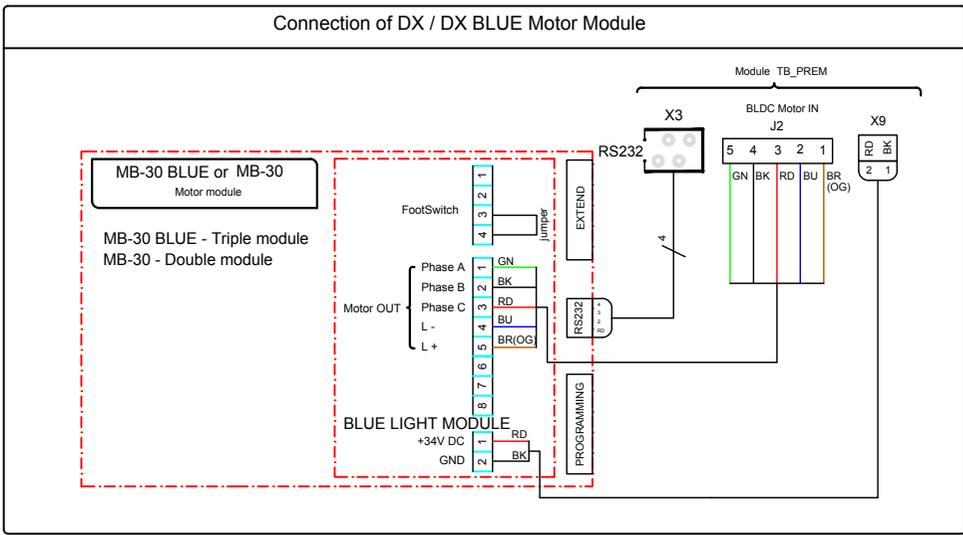
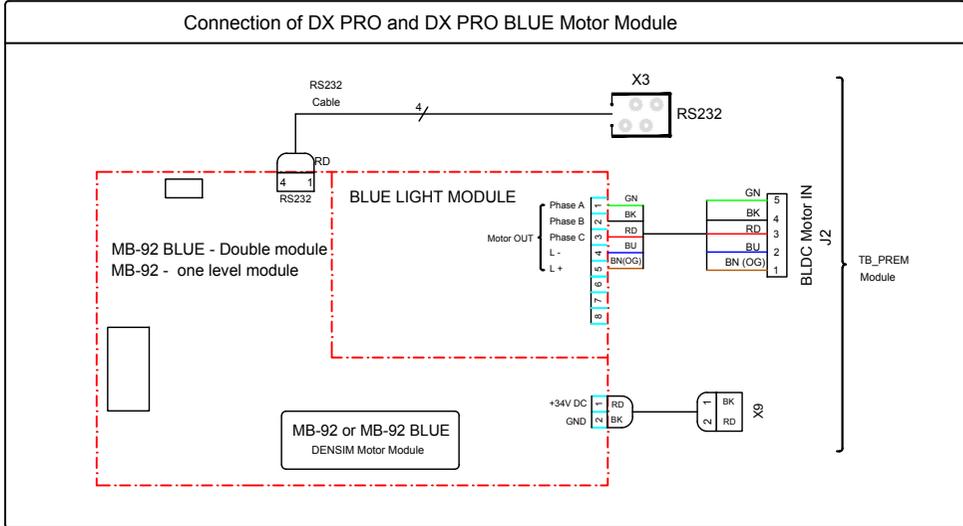
Wiring diagram of the Control Panel - Connection of the Turbine, Proportional Valves, Pneumatic brake in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (24.5.2021)

- BK - Black (čierna)
- BN - Brown (hnedá)
- BU - Blue (modrá)
- GN - Green (zelená)
- GNYE - Green/Yellow
- GY - Grey (sivá)
- OG - Orange (oranžová)
- PK - Pink (ružová)
- RD - Red (červená)
- VT - Violet (fialová)
- WH - White (biela)
- YE - Yellow (žltá)

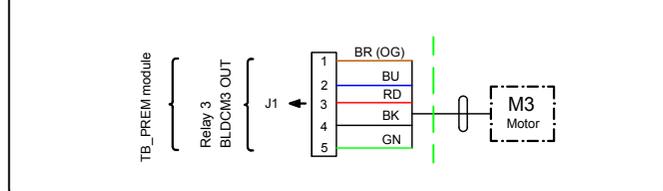


Wiring diagram of the Control Panel - Connection of the Motors and Modules for Motors, Valves for motors in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)

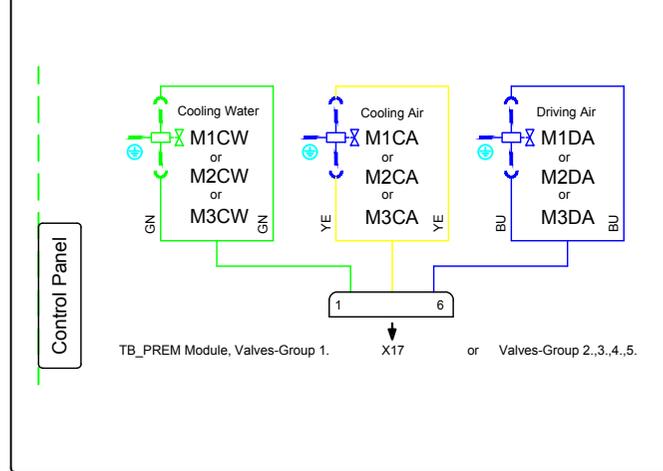
- BK - Black (čierna)
- BN - Brown (hnedá)
- BU - Blue (modrá)
- GN - Green (zelená)
- GNYE - Green/Yellow
- GY - Grey (sivá)
- OG - Orange (oranžová)
- PK - Pink (ružová)
- RD - Red (červená)
- VT - Violet (fialová)
- WH - White (biela)
- YE - Yellow (žltá)



Alternative connection of surgery motor: BLDCM3(DX SRG Densim Motor)

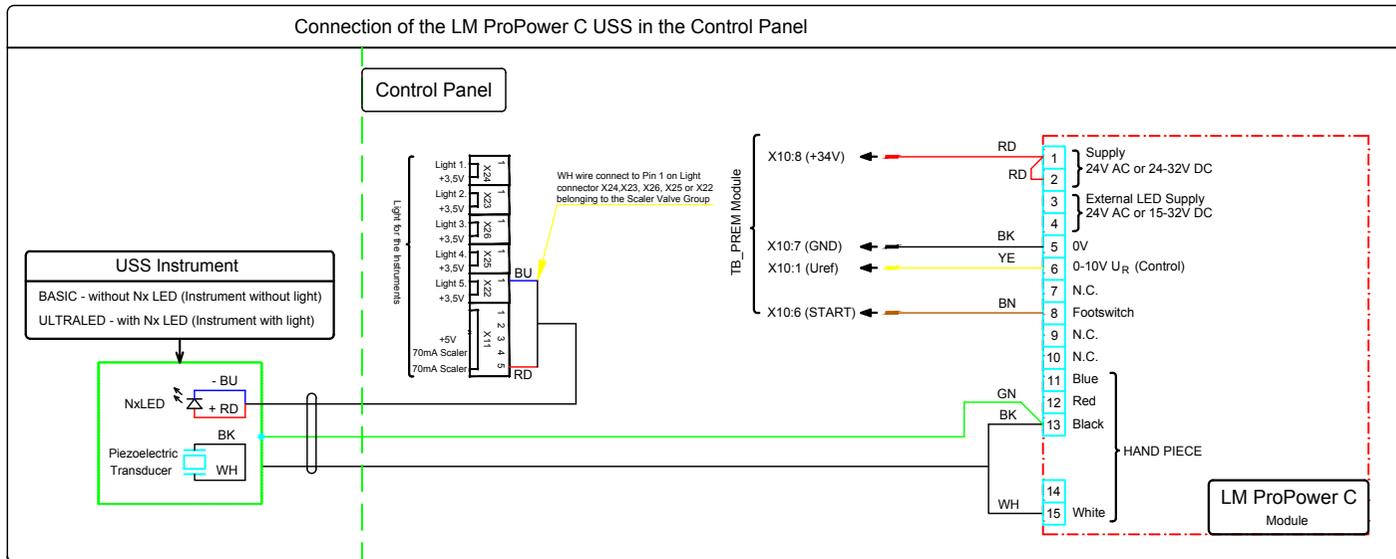
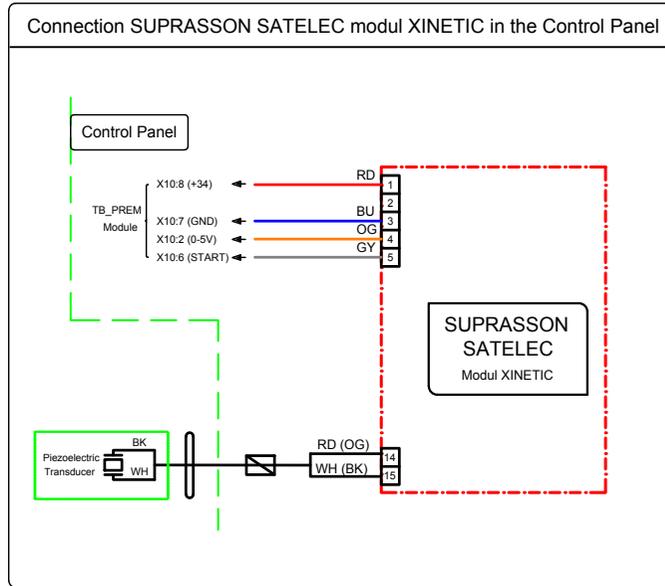
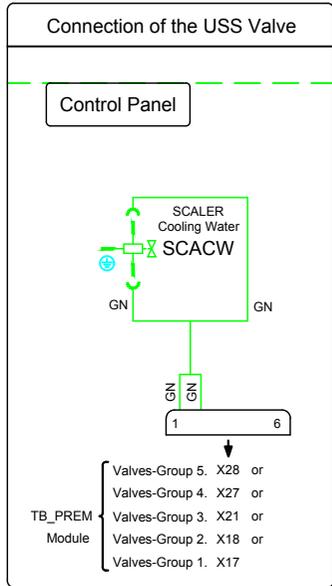


Connection of Valves for M1, M2, M3 - (DX/DX PRO,DX/DX PRO Blue)



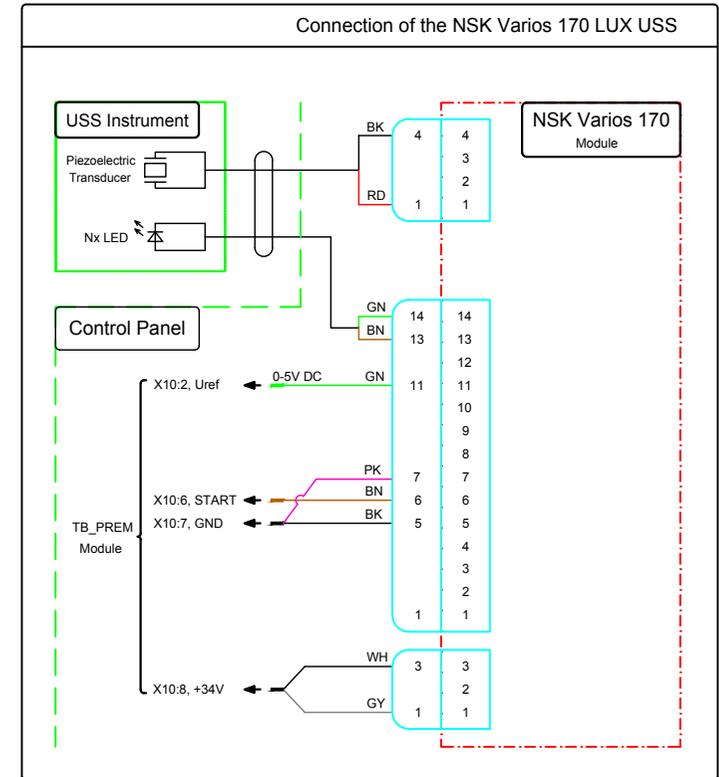
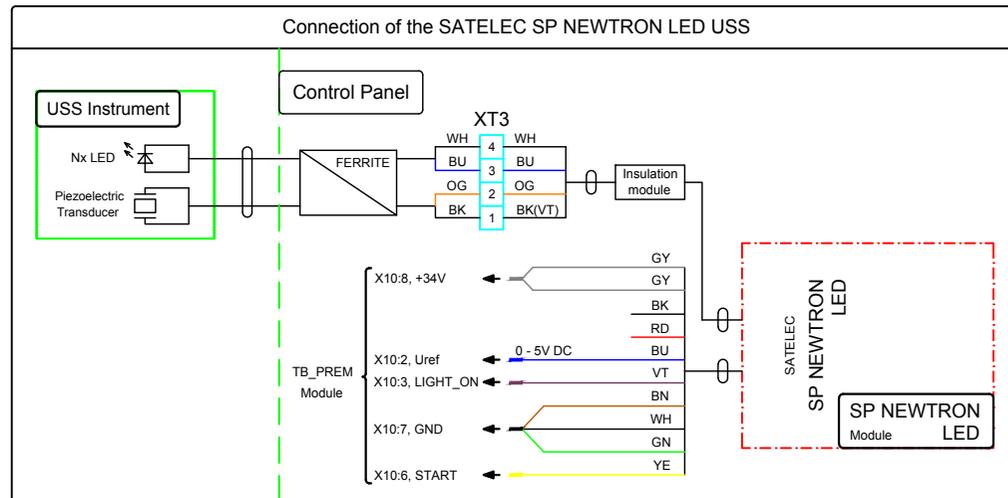
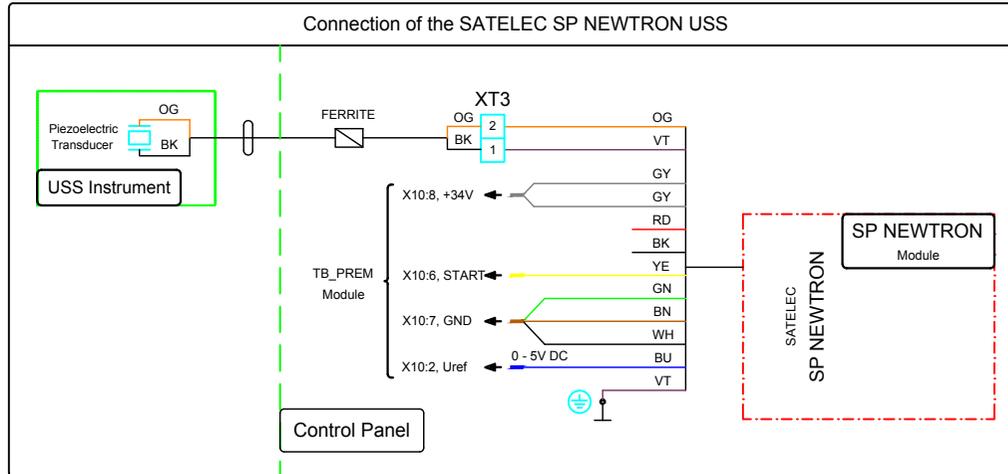
Wiring diagram of the Control Panel - Connection of the Scaler XINETIC, LM ProPower C USS, Valve for Scaler in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (6.7.2021)

- BK - Black (čierna)
- BN - Brown (hnedá)
- BU - Blue (modrá)
- GN - Green (zelená)
- GNYE - Green/Yellow
- GY - Grey (sivá)
- OG - Orange (oranžová)
- PK - Pink (ružová)
- RD - Red (červená)
- VT - Violet (fialová)
- WH - White (biela)
- YE - Yellow (žltá)

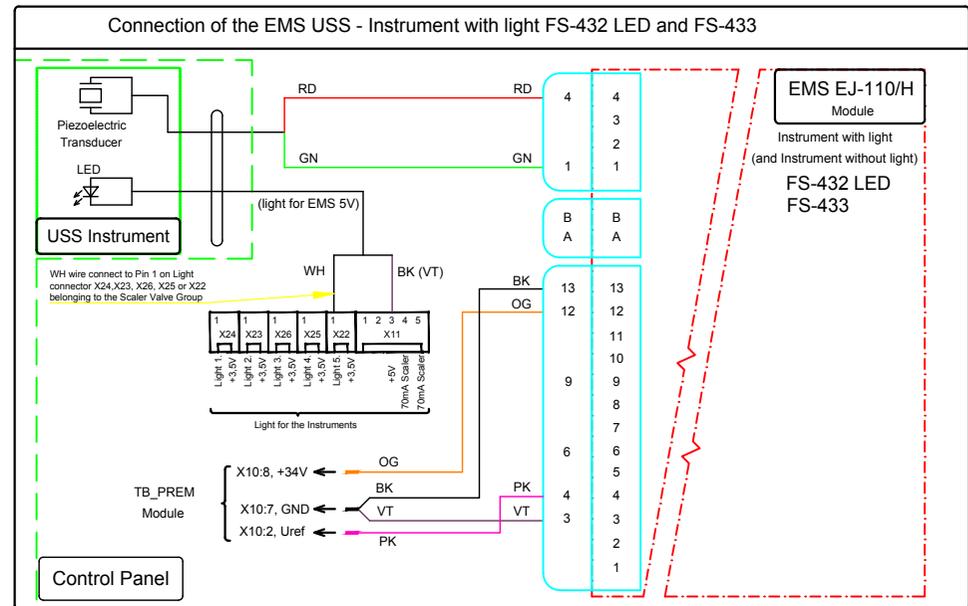
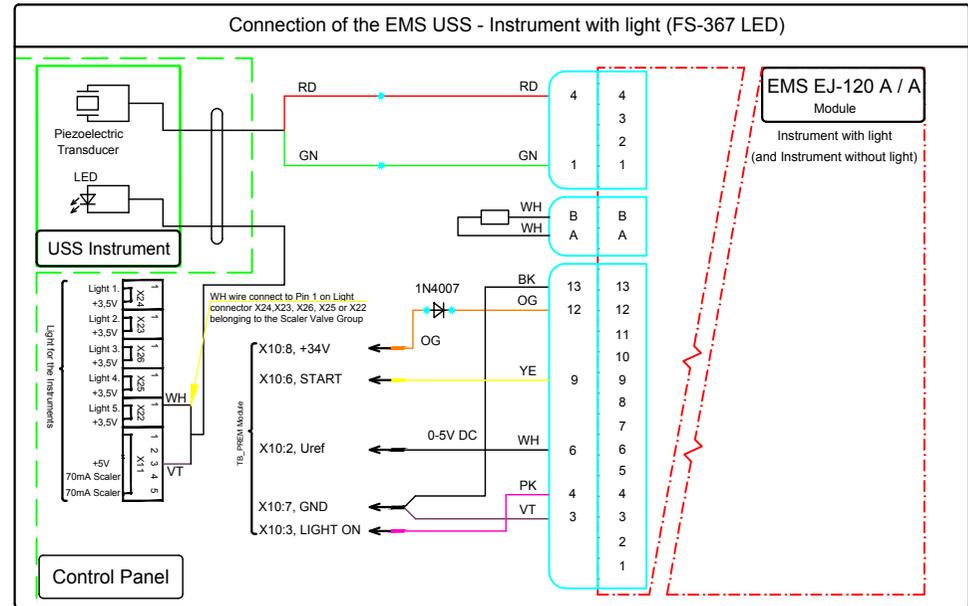
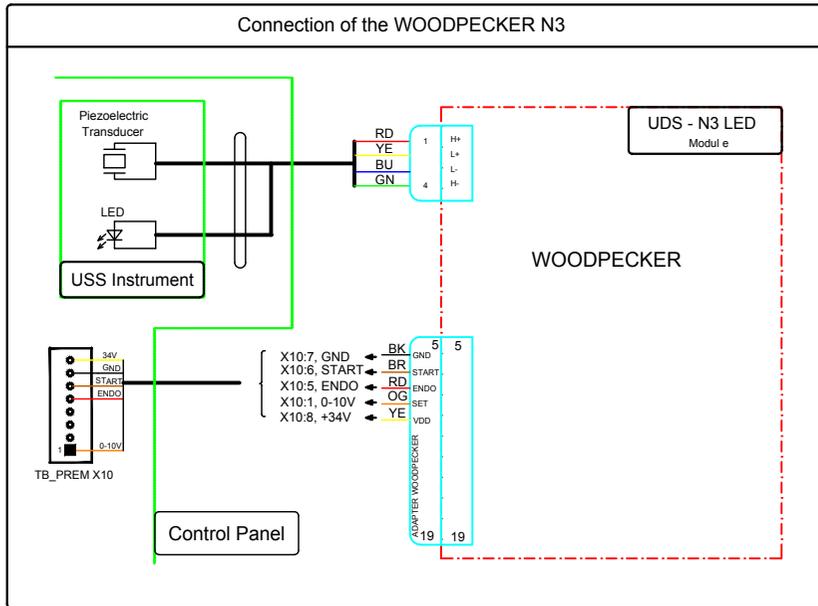


Wiring diagram of the Control Panel - Connection of the Scaler SP NEWTRON and NEWTRON LED, NSK VARIOS 170 and VARIOS 170 LED, Valve for Scaler in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)

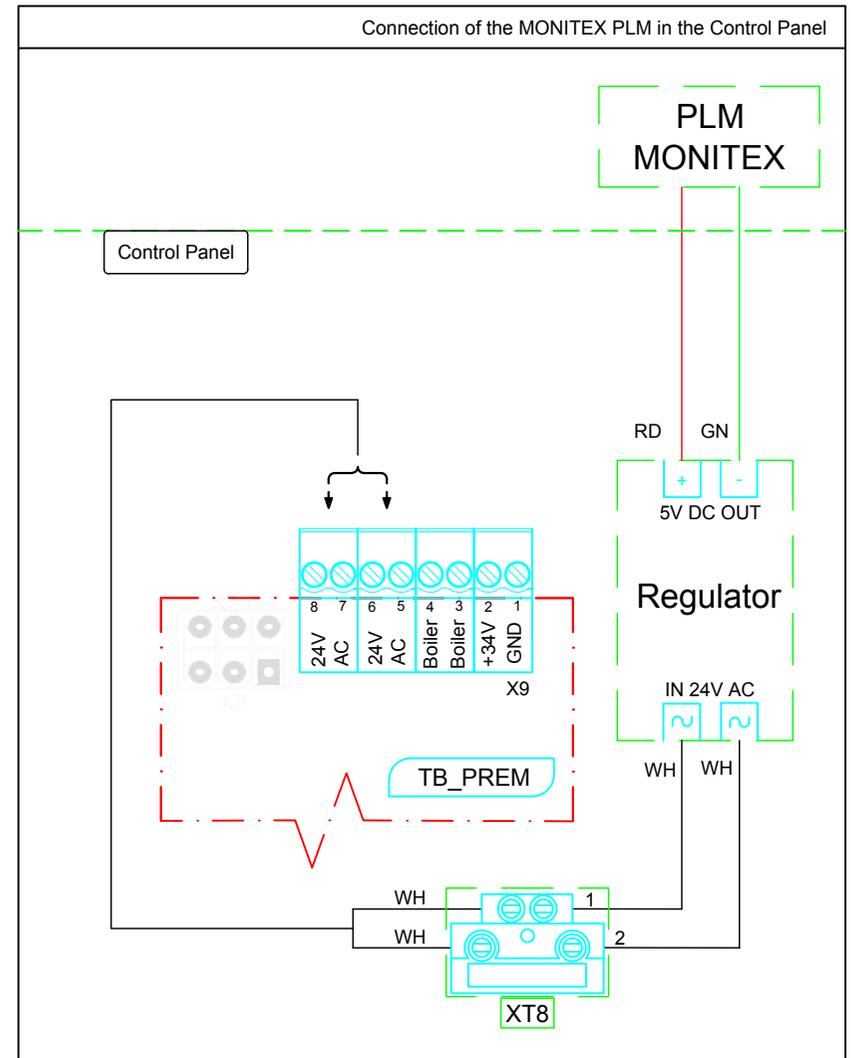
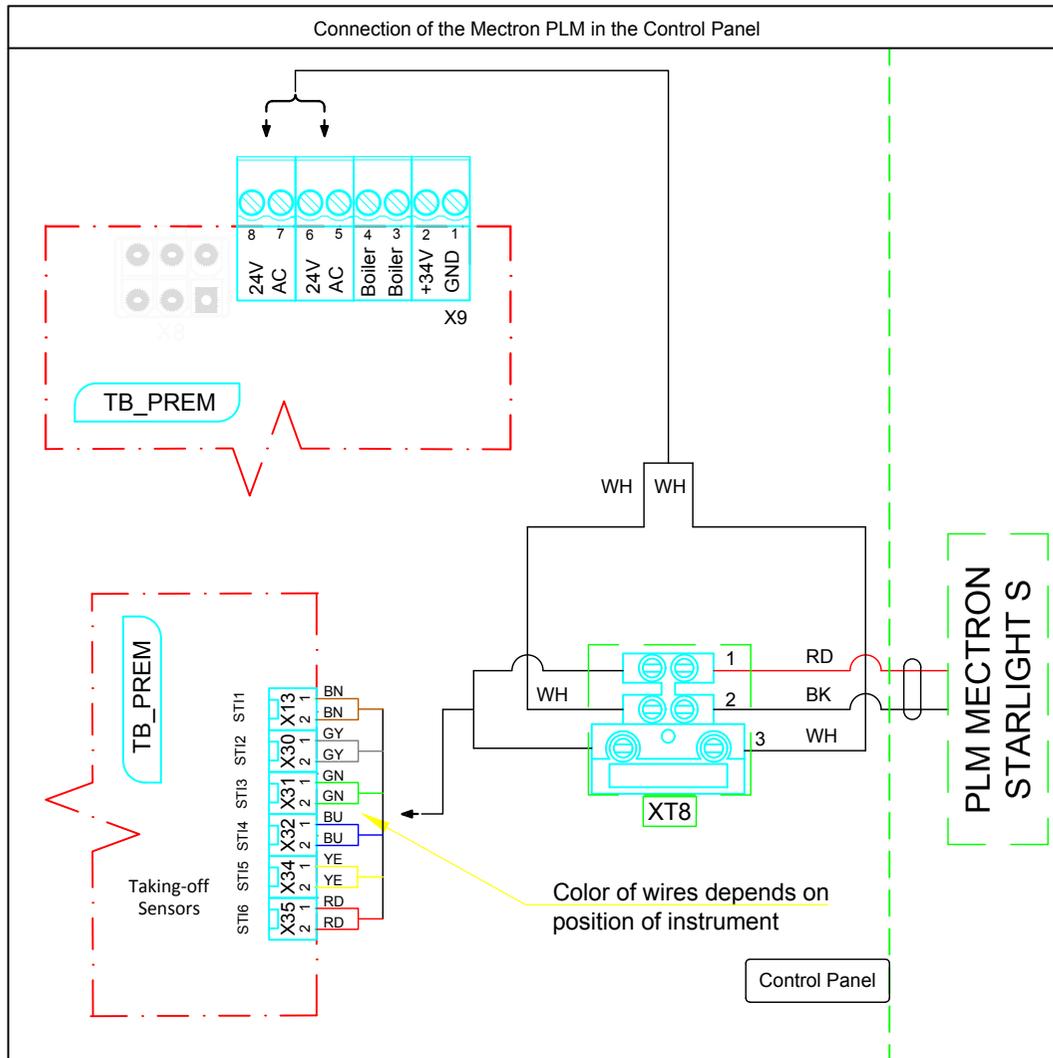
- BK - Black (čierna)
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- BU - Blue (modrá)
- GN - Green (zelená)
- GNYE - Green/Yellow
- GY - Grey (sivá)
- OG - Orange (oranžová)
- PK - Pink (ružová)
- RD - Red (červená)
- VT - Violet (fialová)
- WH - White (biela)
- YE - Yellow (žltá)



Wiring diagram of the Control Panel - Connection of the Scaler SP NEWTRON and NEWTRON LED, NSK VARIOS 170 and VARIOS 170 LED, Valve for Scaler in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)



Wiring diagram of the Control Panel - Connection of the PLM instruments in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)



Wiring diagram of the Control Panel - Connection of the Syringe, Water heating, Hygiene Valve for Syringe, Peristaltic Pump in control panel used for
MODEL PRO 500 (DC 310), MODEL PRO 700 (DC 350), DC 240, DC 290, DL 210, DL 270, DL 290, DL 320, DL 330, DL 340, DL 380,
MODEL PRO 600 (DA 270), DA 280, MODEL PRO 800 (DA 370), DA 380
 (15.1.2021)

