

Technical Manual

Infinity

5409263 | Rev. 01

2021



///Olsen

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WELCOME TO INFINITY TECHNICAL MANUAL

Dear technician:

> The main objective of this manual is to facilitate communication between technicians and the factory with regard to the correct identification of parts and components of dental sets.

> The main parts and their components are presented with exploded drawings, showing the smaller parts in detail.

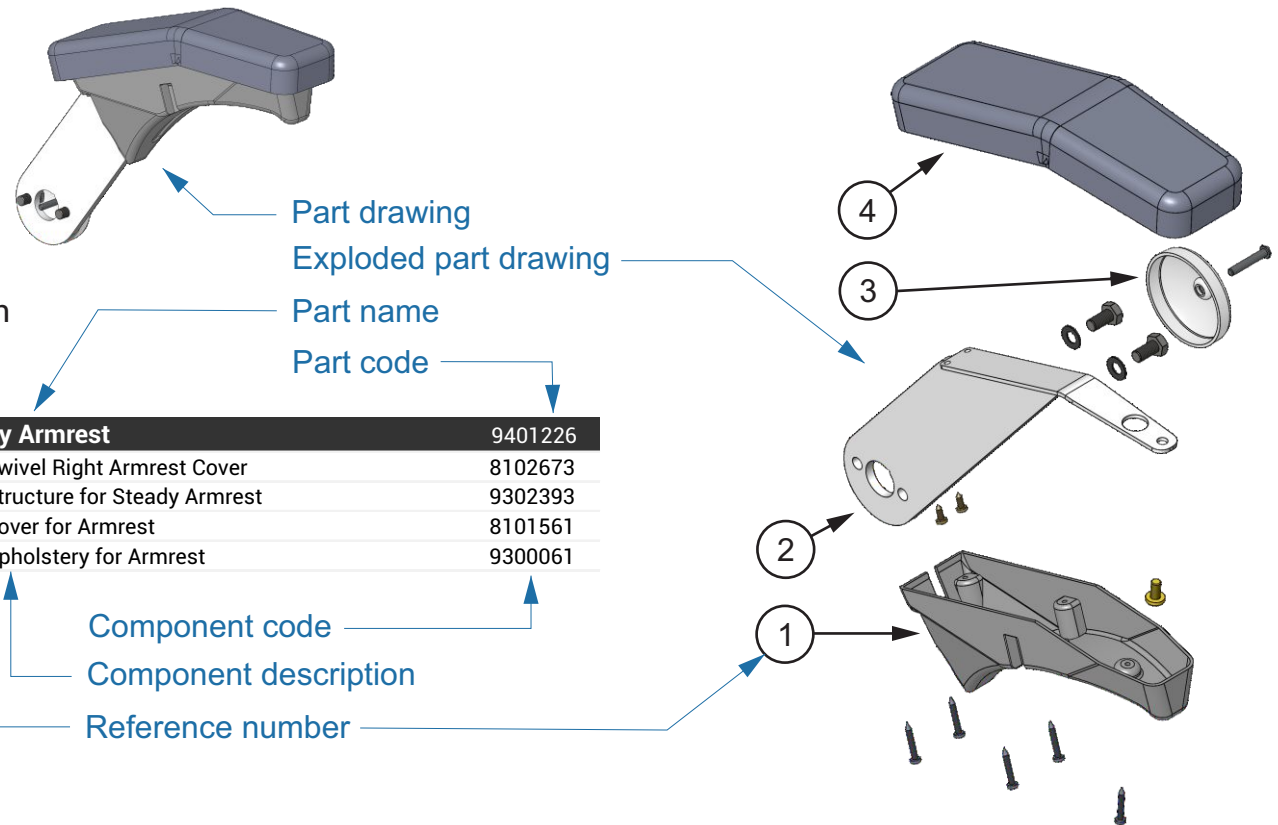
> For correct use of this manual, observe the presentation pattern of the parts and components described in the example below.

> Additional supporting documents can be found in the download section of the website.


The main title bar has links to facilitate navigation between pages. Touch or click on the house icon to return to the table of contents and over the title to return to the main page of the section.




Return to the main page of the section
Return to the table of contents

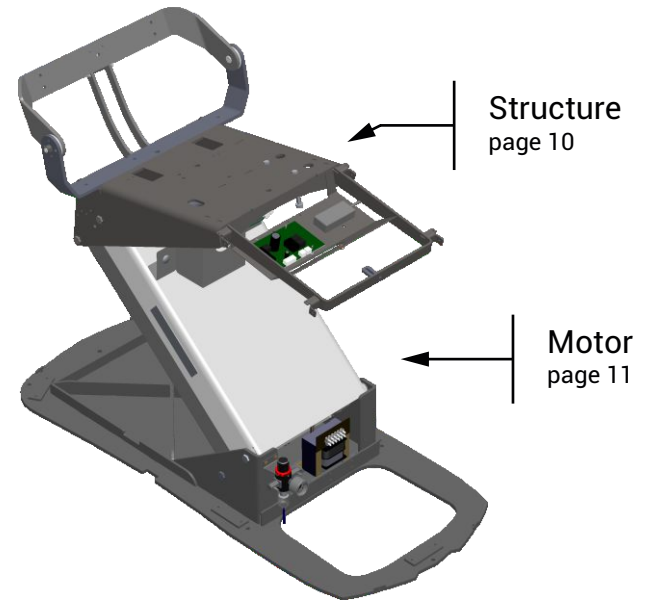


Indicative symbols

 - Optional Item

 - Note

INTRODUCTION TO THE PARTS PRESENTED IN THIS SECTION



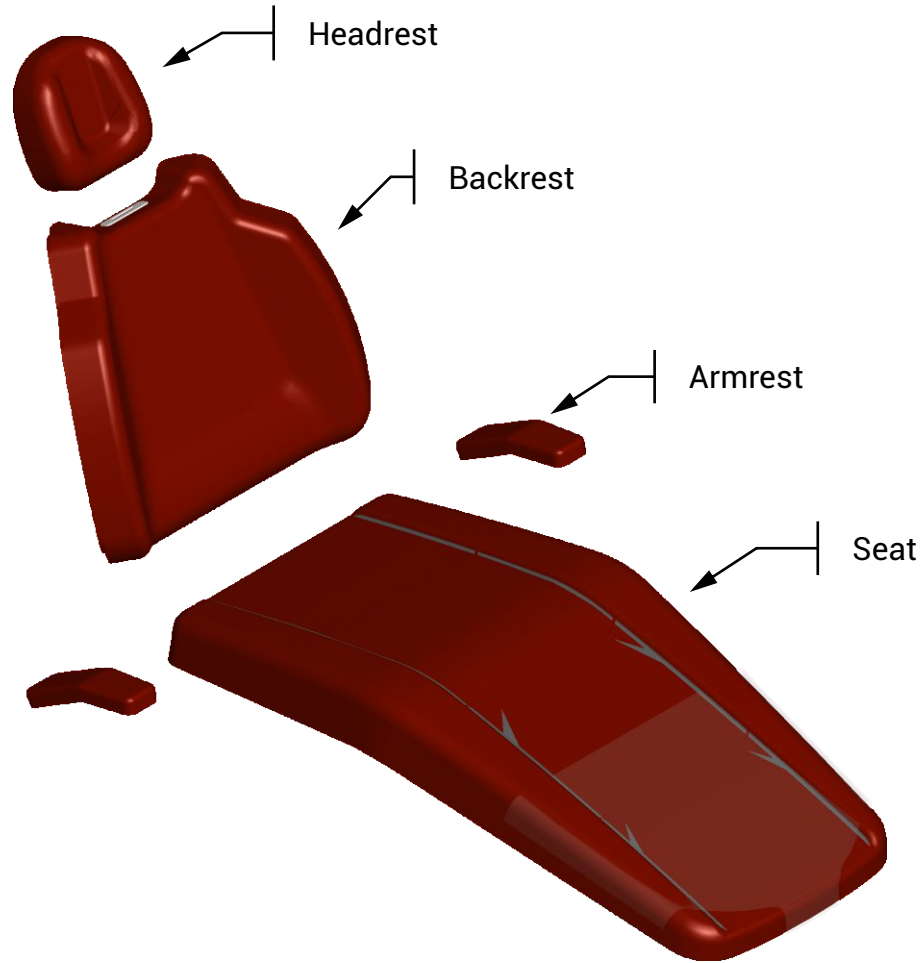
SOFT LAMINATE

ANTI-STRESS

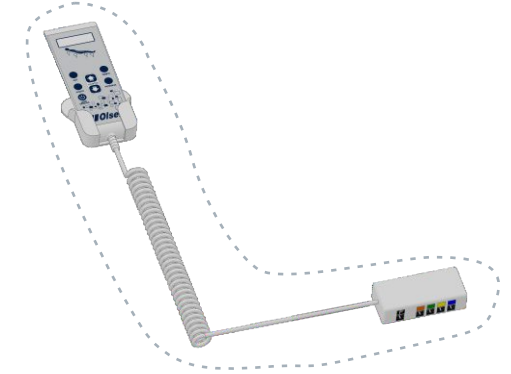
| Leather Upholstery Colors | | |
|---------------------------|---------|---------|
| Description | Ref | Code |
| Leather W Wine | CRVINHO | 4100832 |
| Leather W Black | CRPRETO | 4100832 |
| Leather W SW4 Brown | CRMARRO | 4100832 |
| Leather W Hilux Gray | CRCINZA | 4100832 |
| Ivory Beige Leather | CRBEGE | 4100832 |
| Royal Blue Leather | CRAZULR | 4100832 |

| PVC Upholstery Colors | | |
|-----------------------|---------|---------|
| Description | Ref | Code |
| White 3D | BRAN 3D | 4100699 |
| Gray 3D | CINZ 3D | 4100704 |
| Black 3D | PRET 3D | 4100708 |
| Cappuccino 3D | CAPC 3D | 4100706 |
| Pearl 3D | PERL 3D | 4100705 |
| Wine 3D | VINHO 3 | 4100795 |
| Royal Blue 3D | AZUL 3D | 4100794 |
| Royal blue | AZUL MH | 4100715 |
| Blue Fact | AZUL FC | 4100713 |
| Gray Fact | CINZ FC | 4100710 |
| Citrus Green | V 11DVC | 4100756 |
| Emerald | ESMERAL | 4100711 |
| Champagne | CHAMPAG | 4100709 |
| Sepia | SEPIA | 4100776 |
| Coffee | CAFE | 4100771 |
| Red | VERMELH | 4100700 |
| Wine | VINHO | 4100701 |
| Light green | VER 5DV | 4100755 |
| Pink 3D Mini Bling | ROSA 3D | 4100838 |

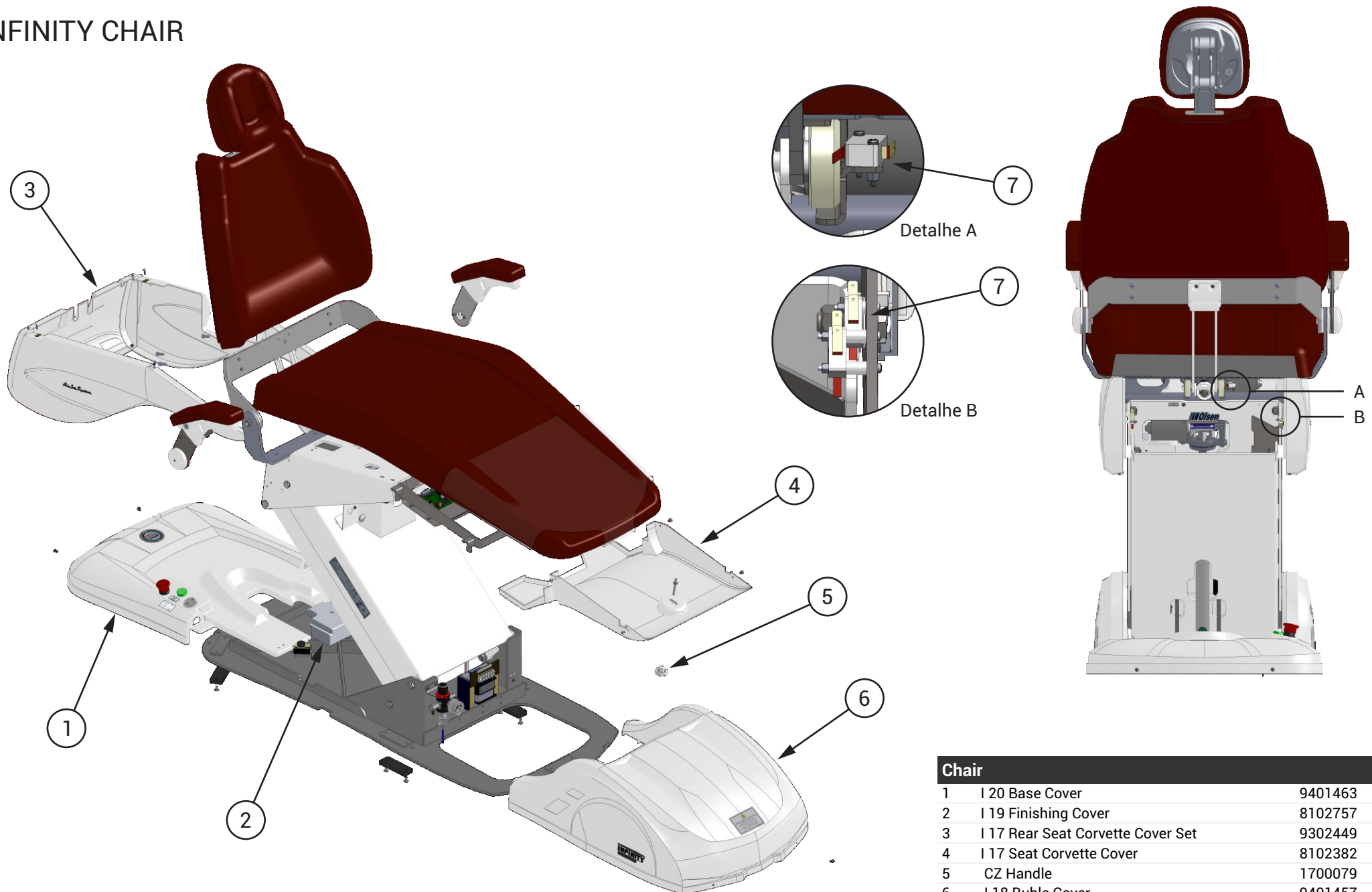
| Upholstery | PVC | Leather | Anti-Stress + PVC | Anti-Stress + Leather |
|------------|---------|---------|-------------------|-----------------------|
| Headrest | 4100796 | 9401313 | - | - |
| Armrest | 9300061 | 9401470 | - | - |
| Seat | 9401375 | 9401252 | 9401374 | 9401251 |
| Backrest | 9600682 | 9600684 | 9600681 | 9600683 |



Command for Anti-Stress System 2200792

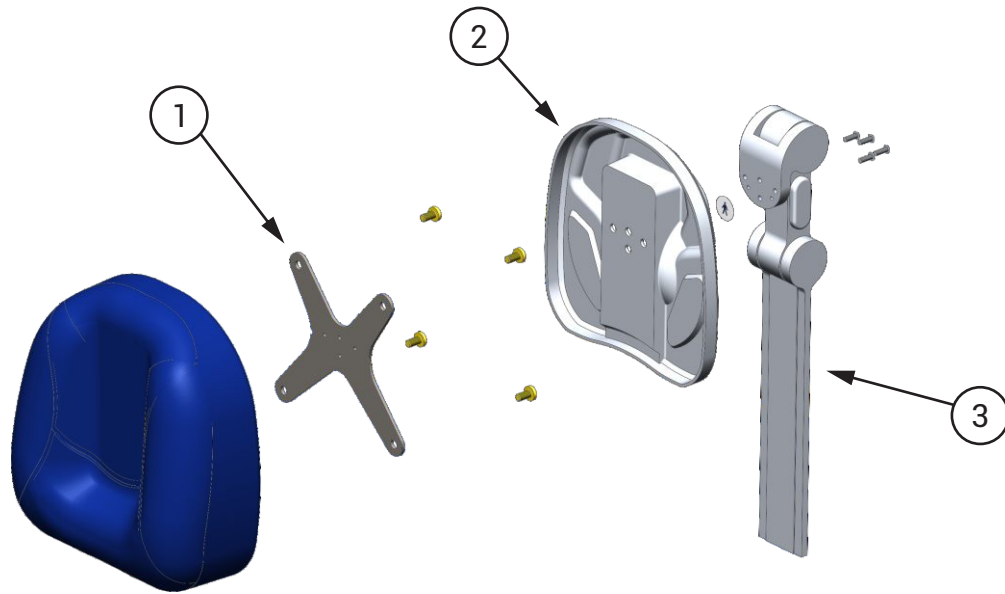


INFINITY CHAIR



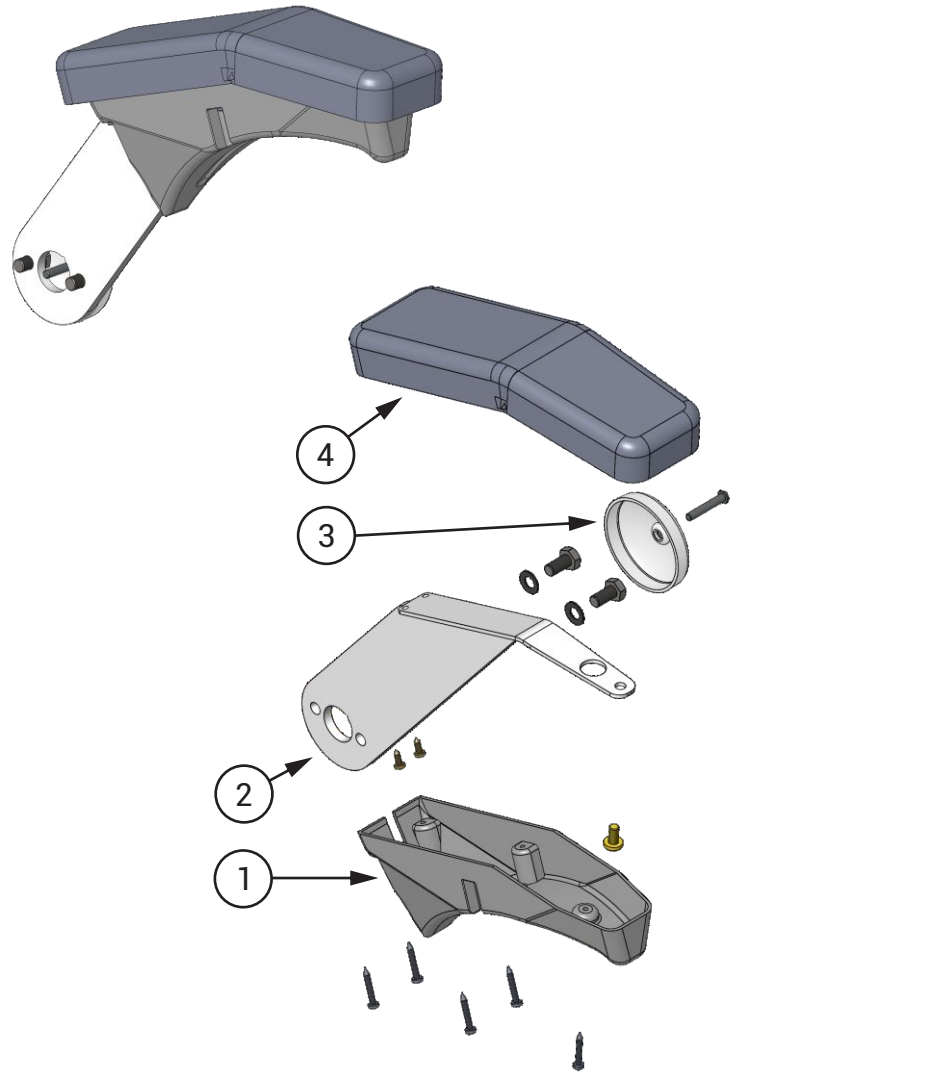
| Chair | | |
|-------|---------------------------------------|-----------|
| 1 | I 20 Base Cover | 9401463 |
| 2 | I 19 Finishing Cover | 8102757 |
| 3 | I 17 Rear Seat Corvette Cover Set | 9302449 |
| 4 | I 17 Seat Corvette Cover | 8102382 |
| 5 | CZ Handle | 1700079 |
| 6 | I 18 Buble Cover | 9401457 |
| 7 | Gray Micro Switch with Pick CX-FL8-40 | 999500089 |

PRESS CLICK HEADREST



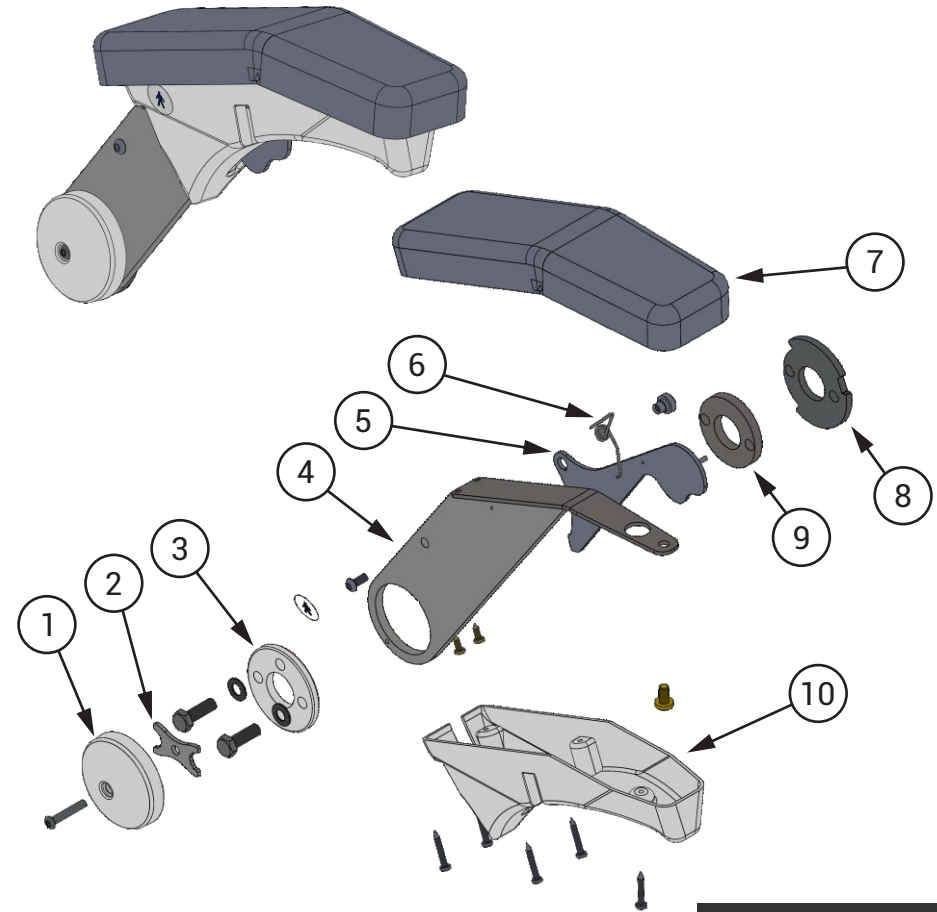
| Press Click Headrest | | 970020008 |
|----------------------|---------------------------------------|-----------|
| 1 | IN 17 Headrest Reinforcement Plate | 8002845 |
| 2 | IN 17 Headrest Cover | 8102343 |
| 3 | Headrest Articulated Rod - Metal Rack | 999500041 |

STEADY ARMREST



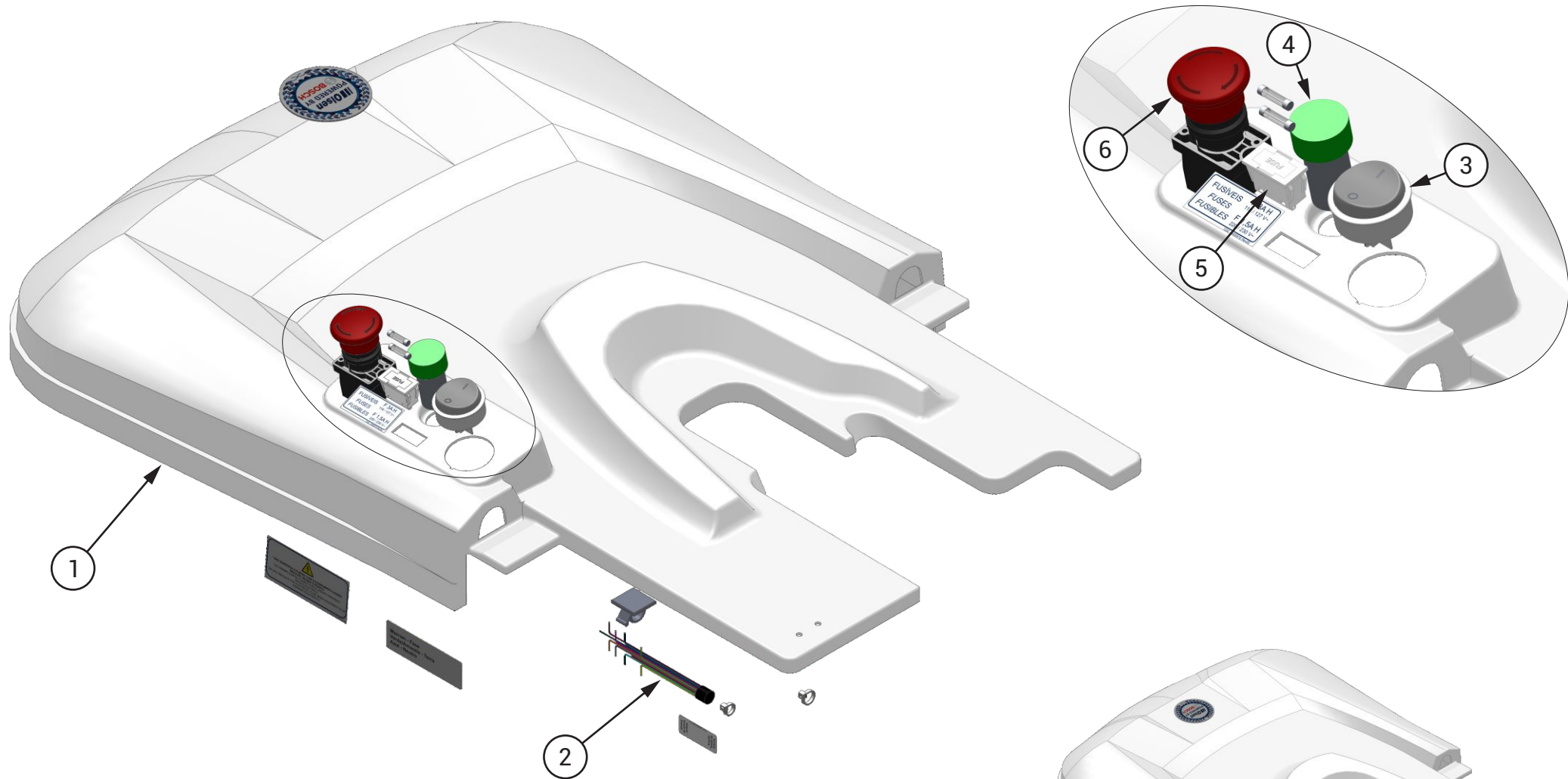
| | Right-handed | Left-handed |
|------------------------------|--------------|-------------|
| Steady Armrest | 9401226 | 9401244 |
| 1 Steady Right Armrest Cover | 8102673 | 8101241 |
| 2 Steady Armrest Structure | | 9302393 |
| 3 Cover for Armrest | | 8101561 |
| 4 Upholstery for Armrest | | 9300061 |

SWIVEL ARMREST



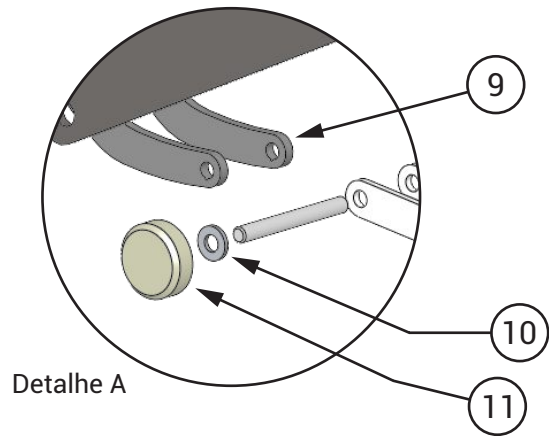
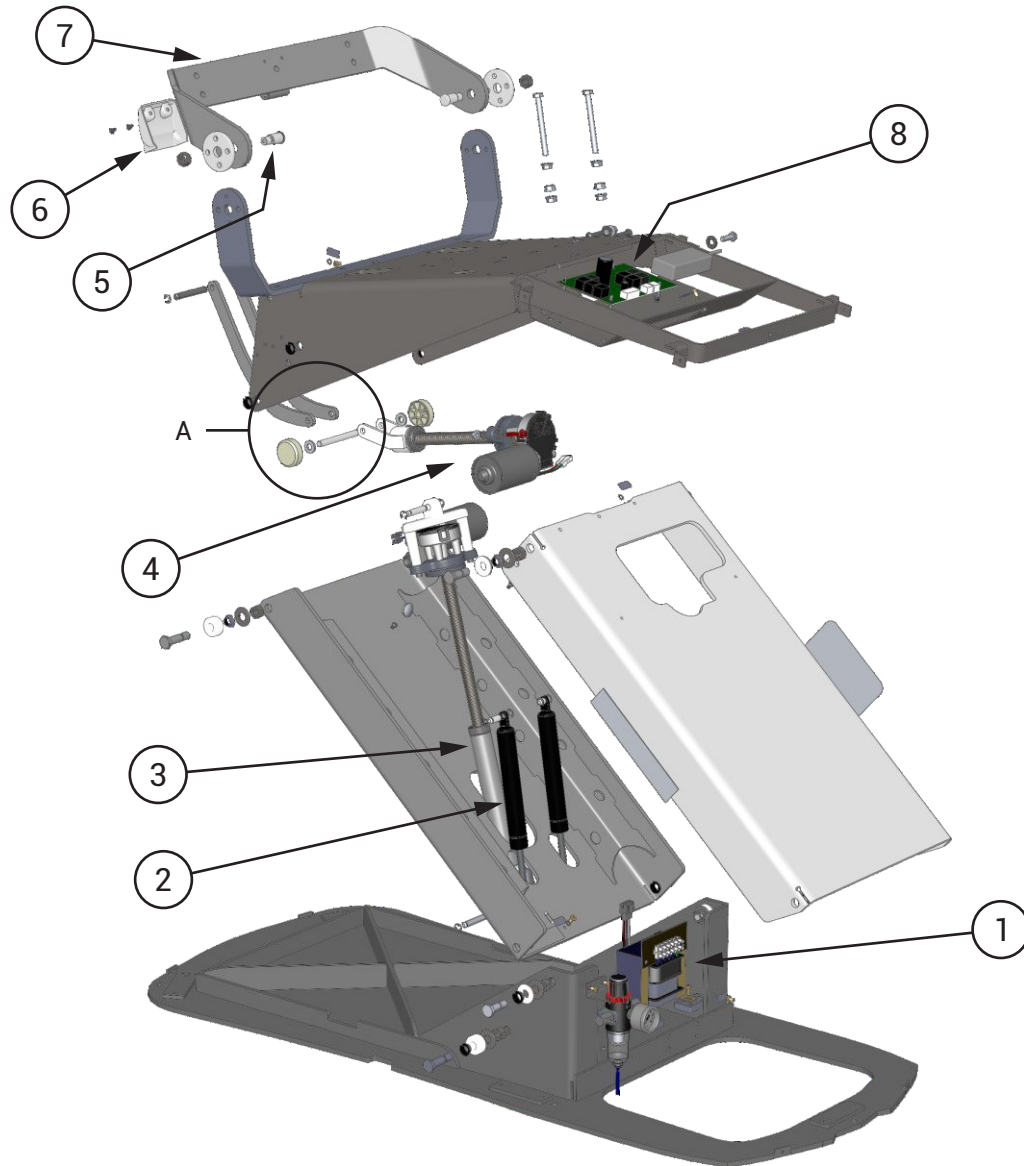
| | Right-handed | Left-handed |
|-------------------------------|--------------|-------------|
| Swivel Armrest | 9401264 | 9401362 |
| 1 Cover for Armrest | | 8101561 |
| 2 Swivel Armrest Screw Lock | | 8002699 |
| 3 Swivel Armrest Fixed Flange | | 8102342 |
| 4 Swivel Armrest Structure | | 9302394 |
| 5 Long Arm Trigger | | 8003197 |
| 6 Trigger Spring | 5200069 | 5201724 |
| 7 Upholstery for Armrest | | 9300061 |
| 8 Swivel Armrest Flange | | 8002930 |
| 9 Inner Armrest Flange | | 8002838 |
| 10 Swivel Right Armrest Cover | 8102672 | 8101147 |

BASE COVER



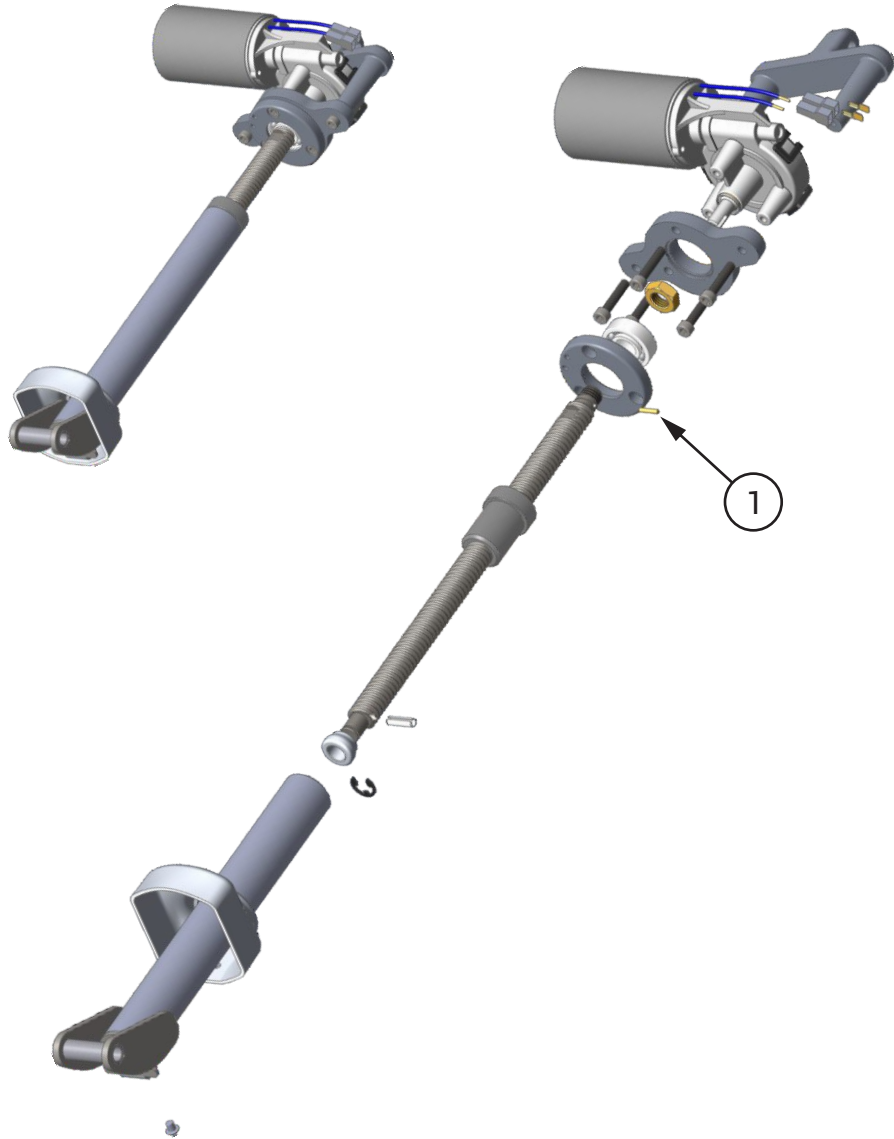
| I 20 Base Cover | | 9401463 |
|-----------------|--|-----------|
| 1 | I 20 Base Cover | 8102912 |
| 2 | Infinity 20 Electrical Cable | 9303018 |
| 3 | Round Switch | 2200737 |
| 4 | Digital Voltmeter Ø22mm 110 / 220V - AD101 | 999500112 |
| 5 | Rectangular Fuse Holder - White MBTBW1 | 2200911 |
| 6 | Emergency Switch | 2200396 |

CHAIR STRUCTURE



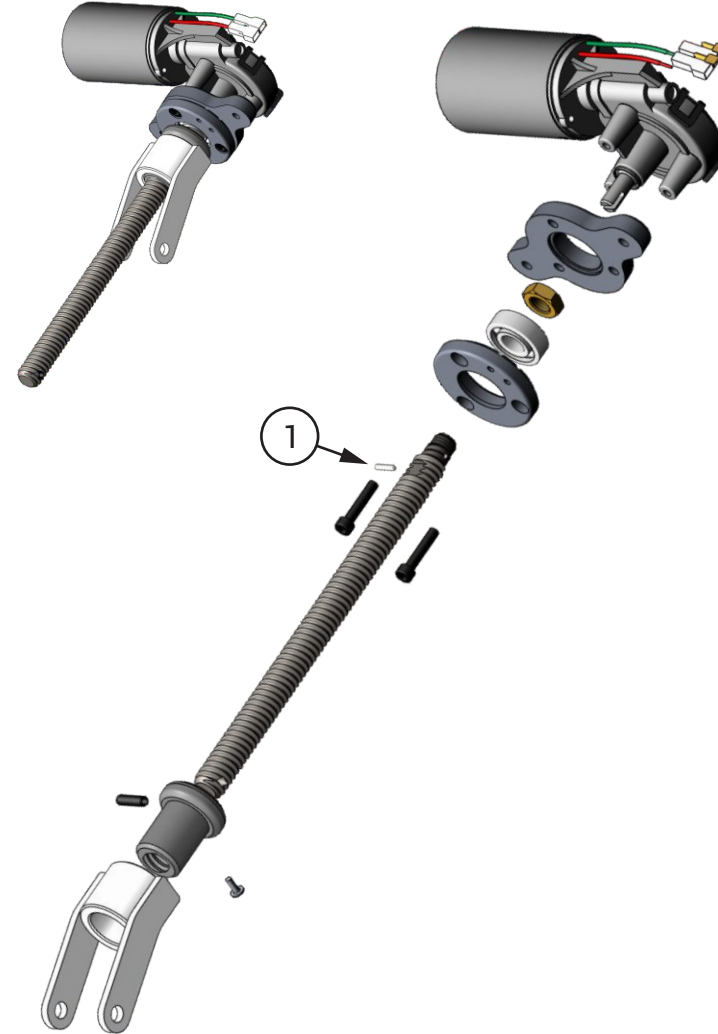
| Chair Structure | | |
|-----------------|--|-----------|
| 1 | Transformer 168Va BA IP-00 118V-127V-220V-230V/12V(5A)-24V(7A)-50/60HZ | 2200842 |
| 2 | Imported Gas Spring | 999500071 |
| 3 | I 19 Seat Spindle Motor | 9401225 |
| 4 | Backrest Spindle Motor SPSLI 19 | 9401188 |
| 5 | IN-17 Backrest Pivot Axle | 8002839 |
| 6 | Upper Joint Cover Logic/IN | 8102436 |
| 7 | Backrest Articulation IN-17 | 9302392 |
| 8 | Infinity / Logic chair CPU board | 2200779 |
| 9 | Backrest Movement Rod 17 | 8002905 |
| 10 | Backrest Motor Spacer | 8102406 |
| 11 | Pulley | 8100051 |

SEAT SPINDLE MOTOR



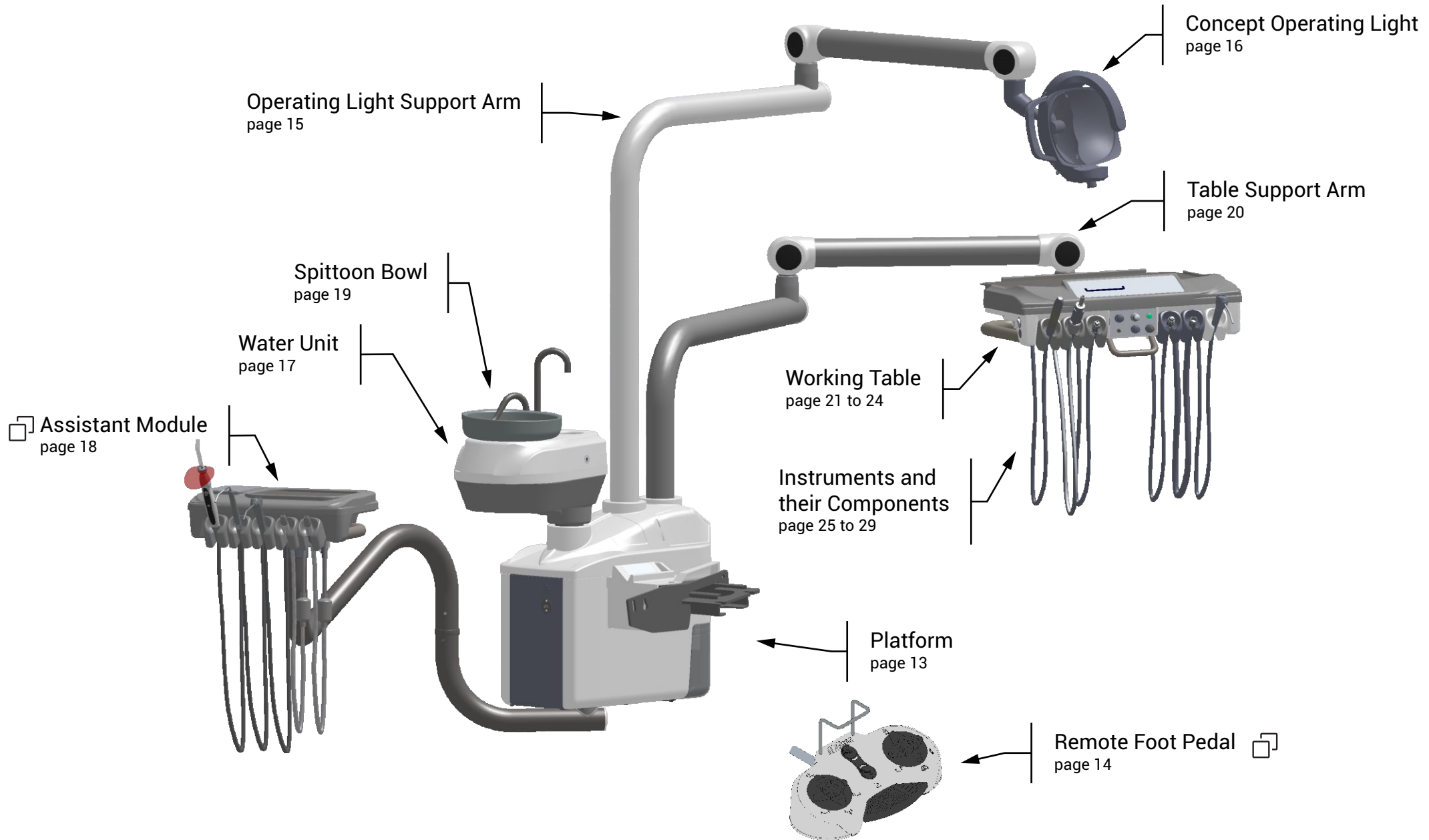
| | |
|---------------------------|---------|
| Seat Spindle Motor | 9401225 |
| 1 Pino DIN 7 | 5201408 |

BACKREST SPINDLE MOTOR

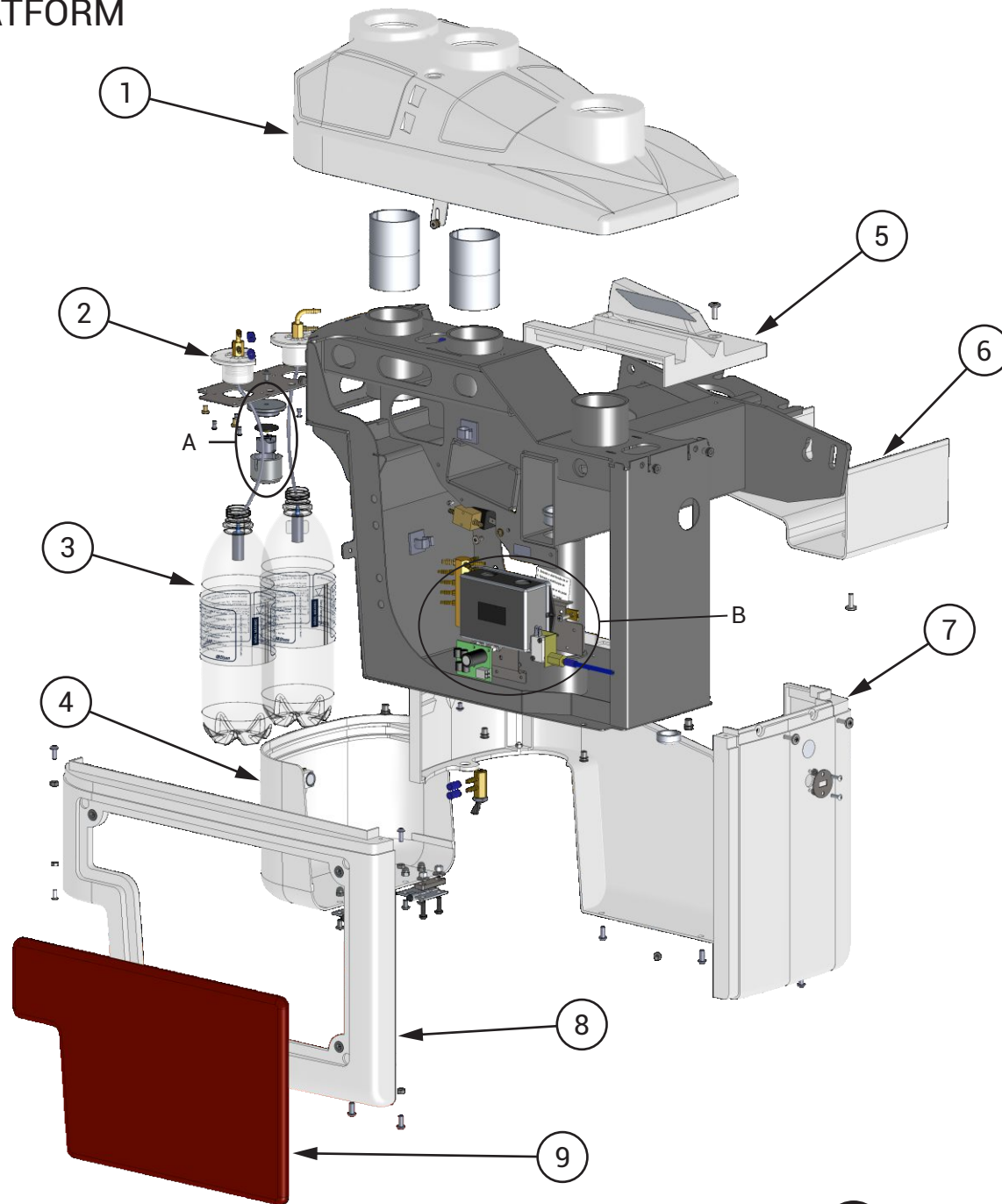


| | |
|-------------------------------|---------|
| Backrest Spindle Motor | 9401188 |
| 1 DIN Pin 7 | 5201408 |

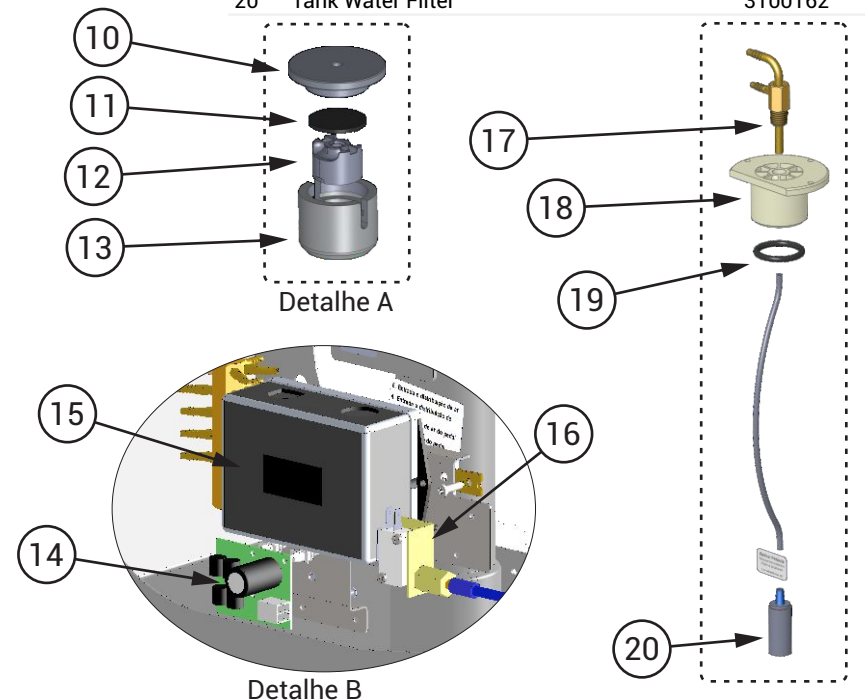
INTRODUCTION TO THE PARTS PRESENTED IN THIS SECTION



PLATFORM

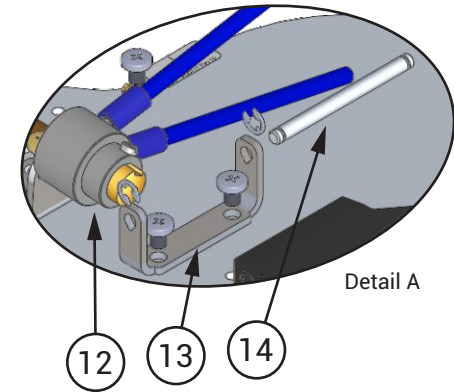
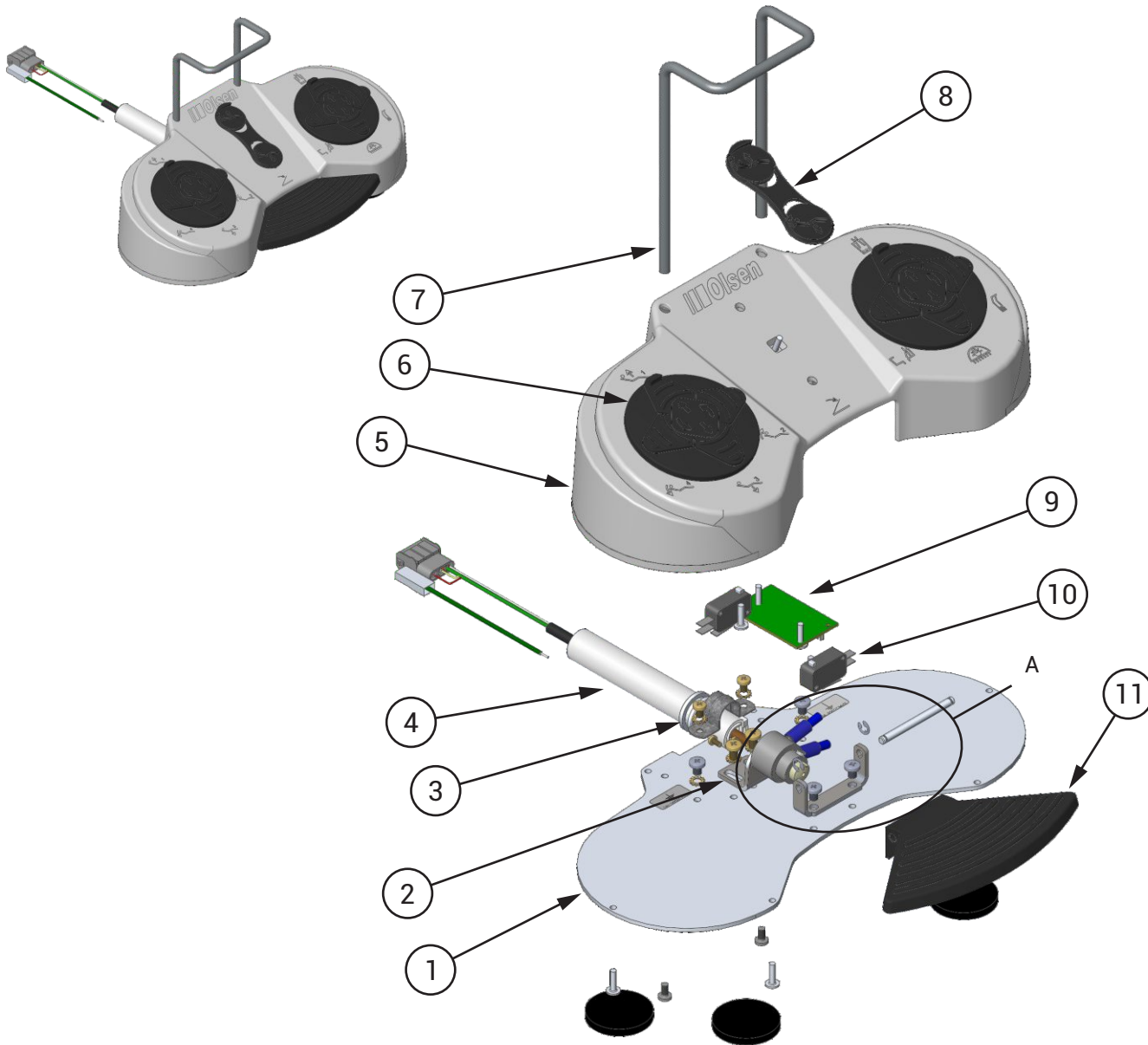


| Tank Filter Kit | | 9400705 |
|-----------------|--------------------------------|---------|
| 17 | Tank Cover Connection 1.4 Kart | 9300285 |
| 18 | Tank Cap w / Cut | 8101138 |
| 19 | O'ring | 3000110 |
| 20 | Tank Water Filter | 3100162 |



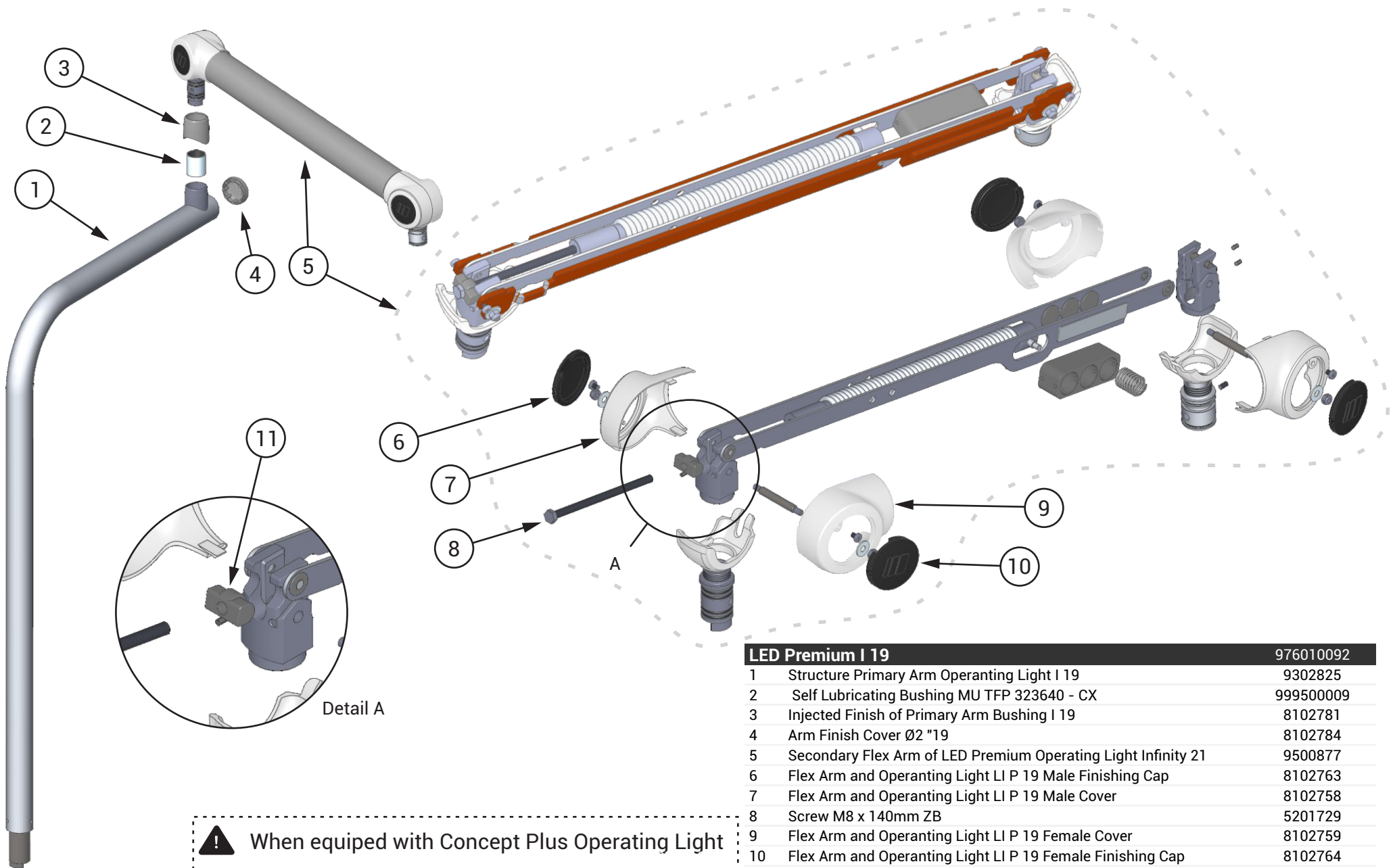
| Plataform | | |
|-----------|--|-----------|
| 1 | Upper Cover IN 17 | 9302465 |
| 2 | Tank Filter Kit | 9400705 |
| 3 | Tank with Adhesive | 9300154 |
| 4 | Tank Cap | 9401231 |
| 5 | Cell phone Holder Cover IN 17 | 9302468 |
| 6 | Plataform Cover IN 17 | 8102354 |
| 7 | Plataform Main Cover IN 17 | 9302405 |
| 8 | Plataform Magnet Cover IN-17 | 9302406 |
| 9 | Infinity Platform Cover Cap | 9401268 |
| 10 | Reservoir LED heatsink | 8201252 |
| 11 | LED for Platform Reservoirs | 2200870 |
| 12 | LED Operating Light Support Lens | 2200826 |
| 13 | Reservoir Lens Finish | 8102374 |
| 14 | Rectifier PCB Board | 9300728 |
| 15 | USB Charger Board | 2200873 |
| 16 | Imported Electropneumatic Switch for Blocking System | 999500073 |

REMOTE FOOT PEDAL



| Remote Foot Pedal IN-17 | | 9500730 |
|-------------------------|-------------------------------------|-----------|
| 1 | Injected Pedal Base | 8002686 |
| 2 | Injected Pedal Valve Support | 8002687 |
| 3 | Pedal Finishing Ring | 8102373 |
| 4 | Plastic Hose Ø11 x 2.8 x 1600 | 8102301 |
| 5 | Injected Cover Pedal | 8102299 |
| 6 | Electric Drive Pedal | 9302557 |
| 7 | Painted Handle Injected Pedal | 8002864 |
| 8 | Automatic Pedal Adjustment Actuator | 8102308 |
| 9 | Pedal PC Board Serial R 232 | 2200781 |
| 10 | Micro Switch Gray CX-FL8-39 | 999500090 |
| 11 | Injected Pedal Propulsion Driver | 9302355 |
| 12 | Logic Progressive Valve | 9400635 |
| 13 | Shaft Propulsion Support | 8002688 |
| 14 | Propulsion Shaft | 8201240 |

OPERATING LIGHT SUPPORT ARM

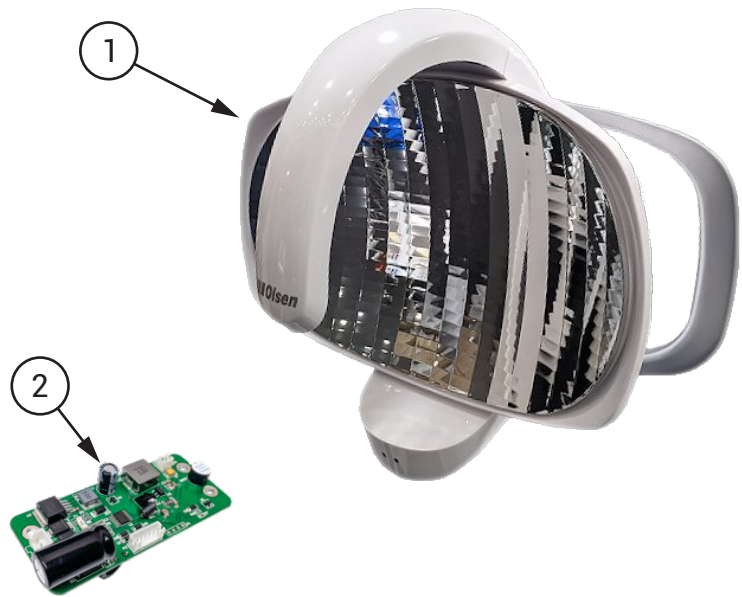


! When equipped with Concept Plus Operating Light

5 Secondary Flex Arm of Concept Plus Operating Light Infinity 21 9500880

| LED Premium I 19 | | 976010092 |
|------------------|---|-----------|
| 1 | Structure Primary Arm Operating Light I 19 | 9302825 |
| 2 | Self Lubricating Bushing MU TFP 323640 - CX | 999500009 |
| 3 | Injected Finish of Primary Arm Bushing I 19 | 8102781 |
| 4 | Arm Finish Cover Ø2 "19 | 8102784 |
| 5 | Secondary Flex Arm of LED Premium Operating Light Infinity 21 | 9500877 |
| 6 | Flex Arm and Operating Light LI P 19 Male Finishing Cap | 8102763 |
| 7 | Flex Arm and Operating Light LI P 19 Male Cover | 8102758 |
| 8 | Screw M8 x 140mm ZB | 5201729 |
| 9 | Flex Arm and Operating Light LI P 19 Female Cover | 8102759 |
| 10 | Flex Arm and Operating Light LI P 19 Female Finishing Cap | 8102764 |
| 11 | Spring Adjuster 18 | 8102296 |

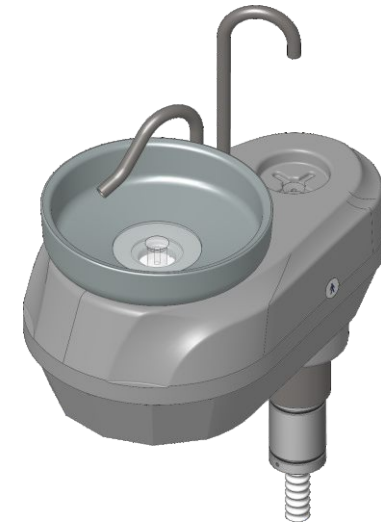
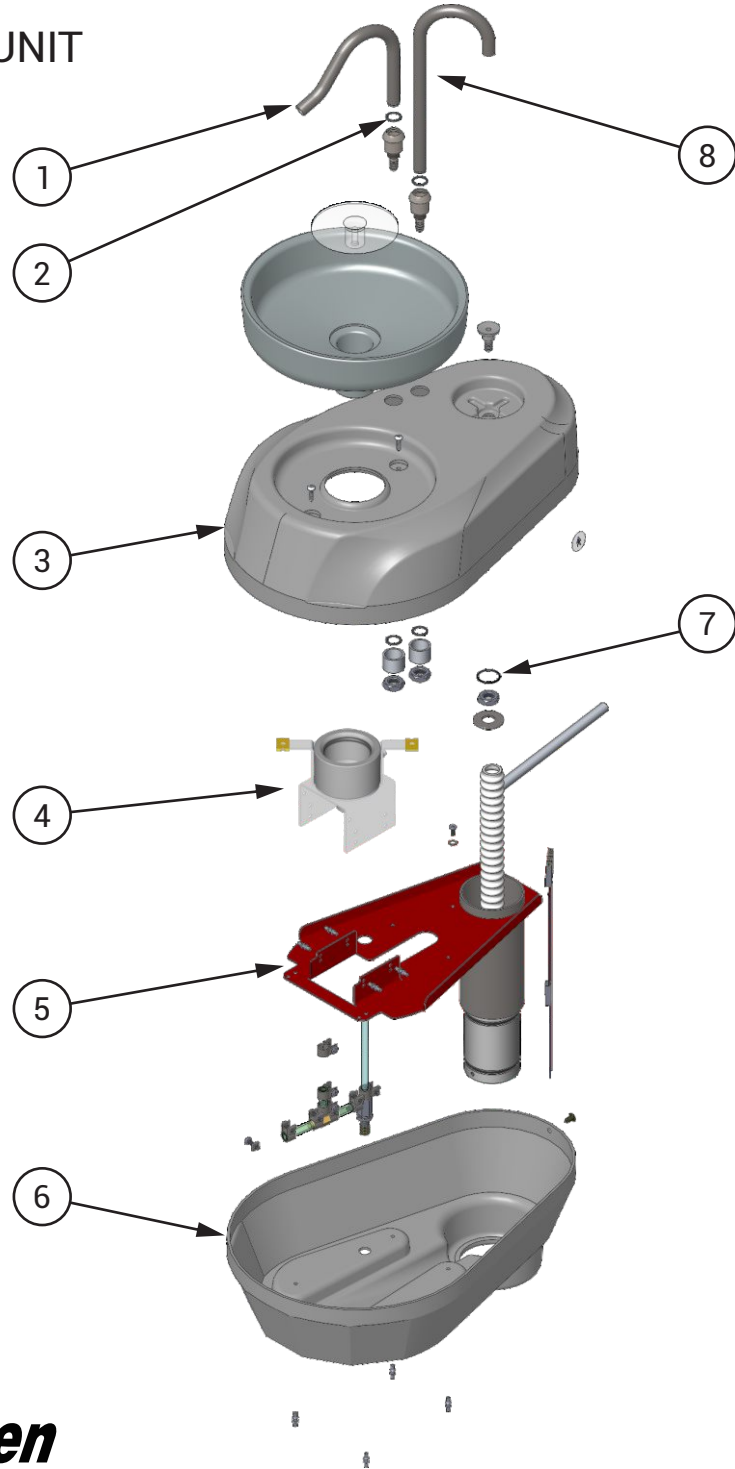
PREMIUM OPERATING LIGHT



Premium Operating Light

- 1 Premium Operating Light Head CX-249-22 999500039
- 2 Electronic PC Board for Operating Light 999500023

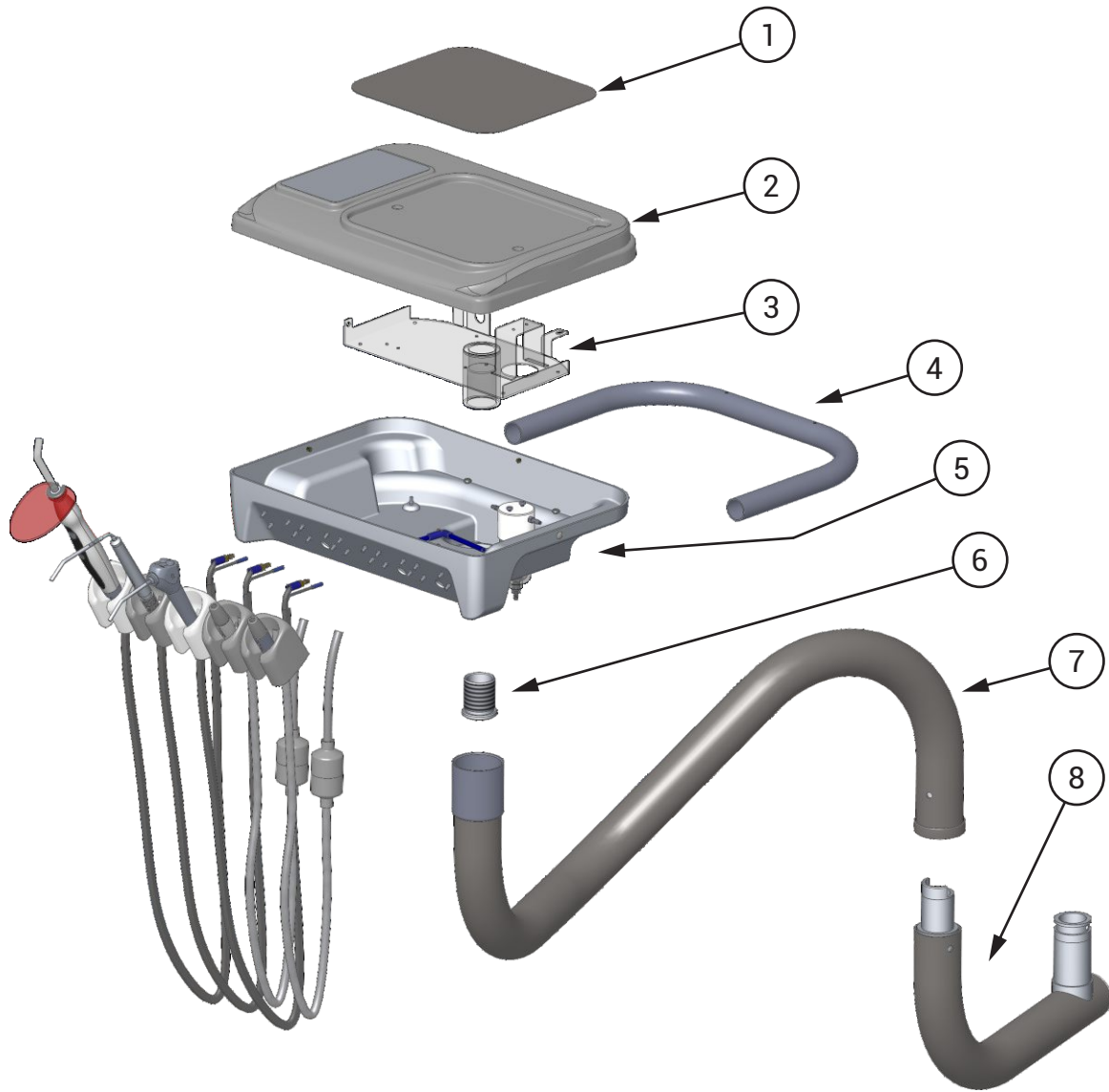
WATER UNIT



⚠ With the intention of displaying more details, the Instruments and their Components, Electrical Components and Valves and Connections have dedicated pages:
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| INP Water Unit | | UNA-IN 003 |
|----------------|------------------------------|------------|
| 1 | Inox Spittoon Bowl Tube | 8201165 |
| 2 | O'ring | 3000122 |
| 3 | LI 19 Water Unit Upper Cover | 8102775 |
| 4 | Cuspidor Bowl holder IN-17 | 9302448 |
| 5 | UNA IN-17 Structure | 9302398 |
| 6 | IN-17 Water Unit Lower Cover | 8102381 |
| 7 | O'ring | 3000101 |
| 8 | Cup fill spout | 8201164 |

ASSISTANT MODULE

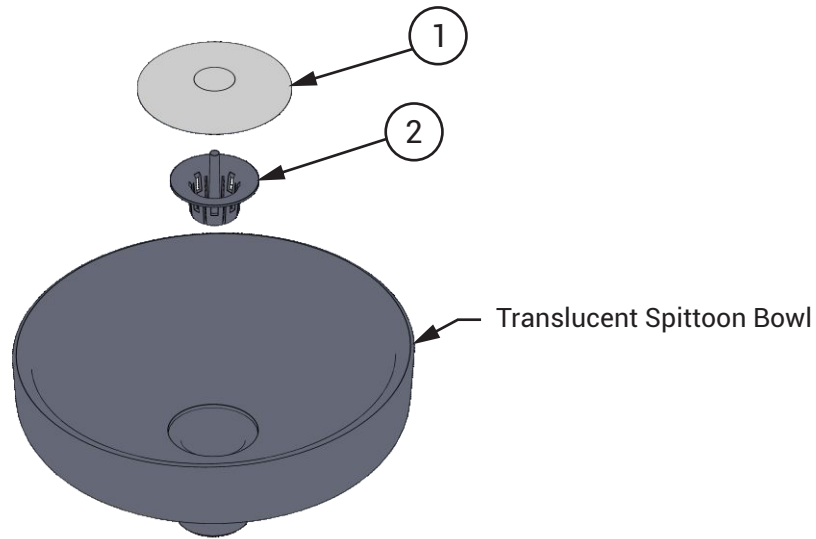


! With the intention of displaying more details, the Instruments and their Components, Electrical Components and Valves and Connections have dedicated pages:
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! When equipped with Prophylaxis on the Assistant Module (optional)
 2 Assembly Upper Cover MOD I 21 With Touch 9303160

| Infinity Assistant Module | | MOD-AX 004 |
|---------------------------|--|------------|
| 1 | Infinity Module Tray | 8201320 |
| 2 | Upper Cover Infinity Module | 9302342 |
| 3 | Infinity Module Structure | 9302118 |
| 4 | Infinity Module Handle | 8201171 |
| 5 | Lower Cover Infinity Module | 8102148 |
| 6 | Height Adjusting Pin Infinity Assistant Module | 8002414 |
| 7 | Secondary Arm Module IN-17 | 9401248 |
| 8 | Primary Arm Module IN-17 | 9302399 |

TRANSLUCENT SPITTOON BOWL



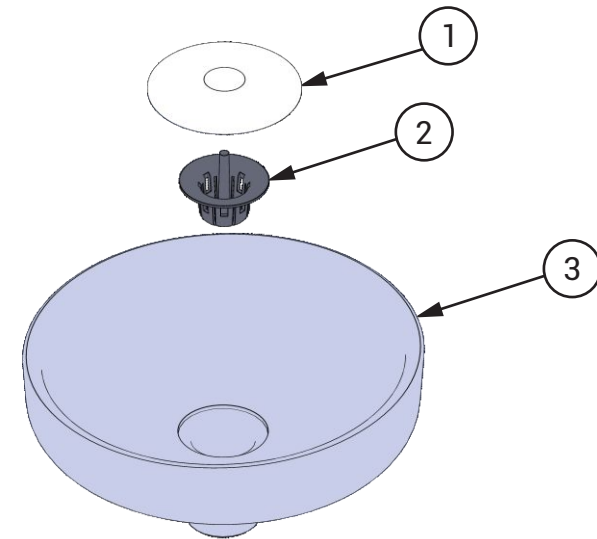
Translucent Spittoon Bowl Color Code

| | |
|---------------------------------------|---------|
| Polyester / Translucent Brown | 1600379 |
| Polyester / Translucent Green | 1600165 |
| Polyester / Translucent Citrus Green | 1600240 |
| Polyester / Translucent Crystal | 1600360 |
| Polyester / Translucent Wine | 1600359 |
| Polyester / Translucent Gray | 1600166 |
| Polyester / Translucent Emerald Green | 1600349 |
| Polyester / Translucent Royal Blue | 1600170 |
| Polyester / Translucent Salmon | 1600168 |

Components of Translucent Spittoon Bowl

| | | |
|---|------------------------|---------|
| 1 | Injected Bowl Finish | 8102176 |
| 2 | Spittoon Bowl Drain 18 | 8102649 |

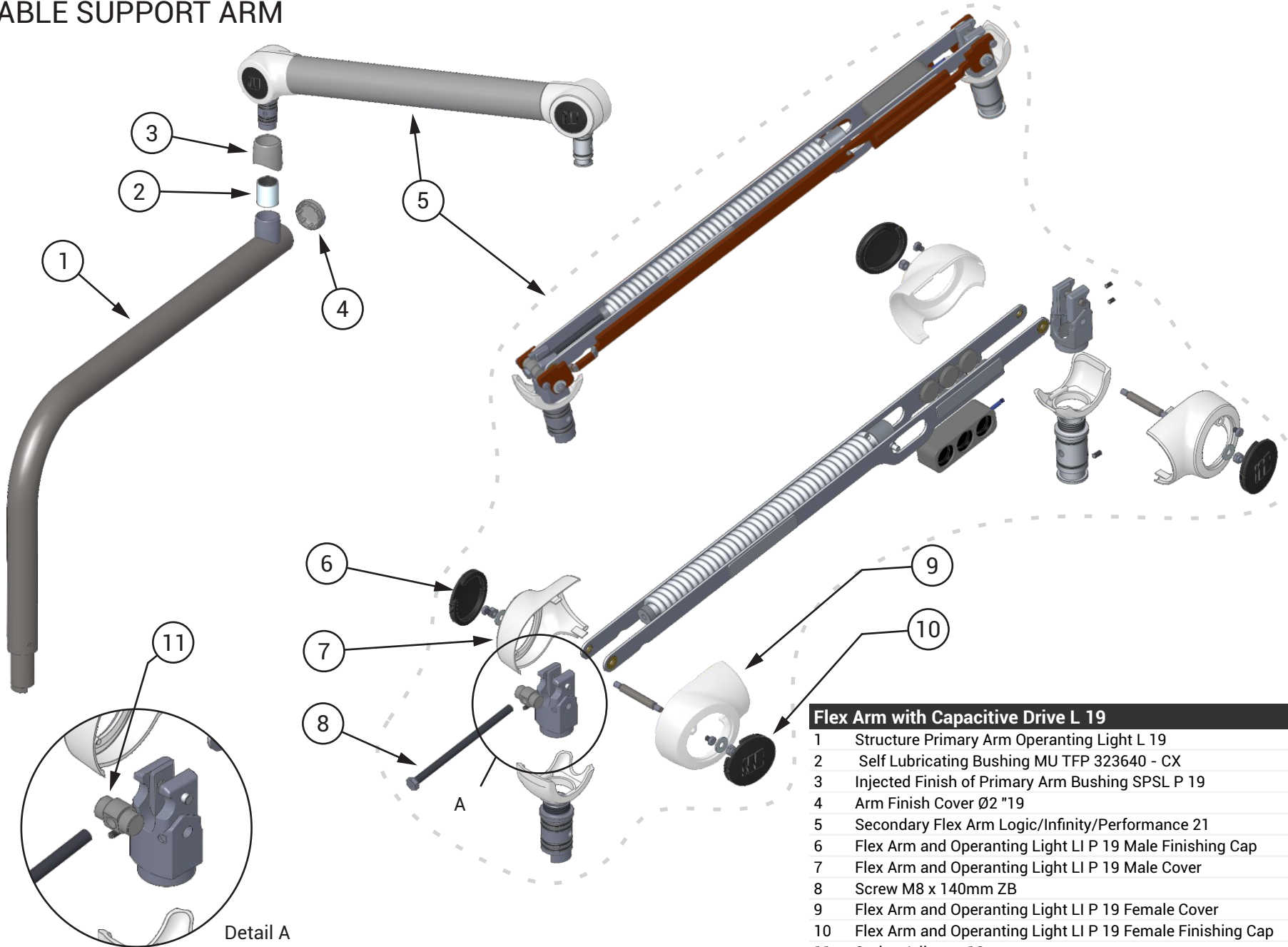
PORCELAIN SPITTOON BOWL



Porcelain Spittoon Bowl

| | | |
|---|-----------------------------------|---------|
| 1 | Injected Bowl Finish | 8102176 |
| 2 | Drain for Porcelain Spittoon Bowl | 8102853 |
| 3 | Porcelain Spittoon Bowl | 1600078 |

TABLE SUPPORT ARM



| Flex Arm with Capacitive Drive L 19 | | 972010017 |
|-------------------------------------|---|-----------|
| 1 | Structure Primary Arm Operating Light L 19 | 9302824 |
| 2 | Self Lubricating Bushing MU TFP 323640 - CX | 999500009 |
| 3 | Injected Finish of Primary Arm Bushing SPSL P 19 | 8102782 |
| 4 | Arm Finish Cover Ø2 "19 | 8102783 |
| 5 | Secondary Flex Arm Logic/Infinity/Performance 21 | 9500881 |
| 6 | Flex Arm and Operating Light LI P 19 Male Finishing Cap | 8102763 |
| 7 | Flex Arm and Operating Light LI P 19 Male Cover | 8102758 |
| 8 | Screw M8 x 140mm ZB | 5201729 |
| 9 | Flex Arm and Operating Light LI P 19 Female Cover | 8102759 |
| 10 | Flex Arm and Operating Light LI P 19 Female Finishing Cap | 8102764 |
| 11 | Spring Adjuster 18 | 8201326 |

WORKING TABLE - PART I

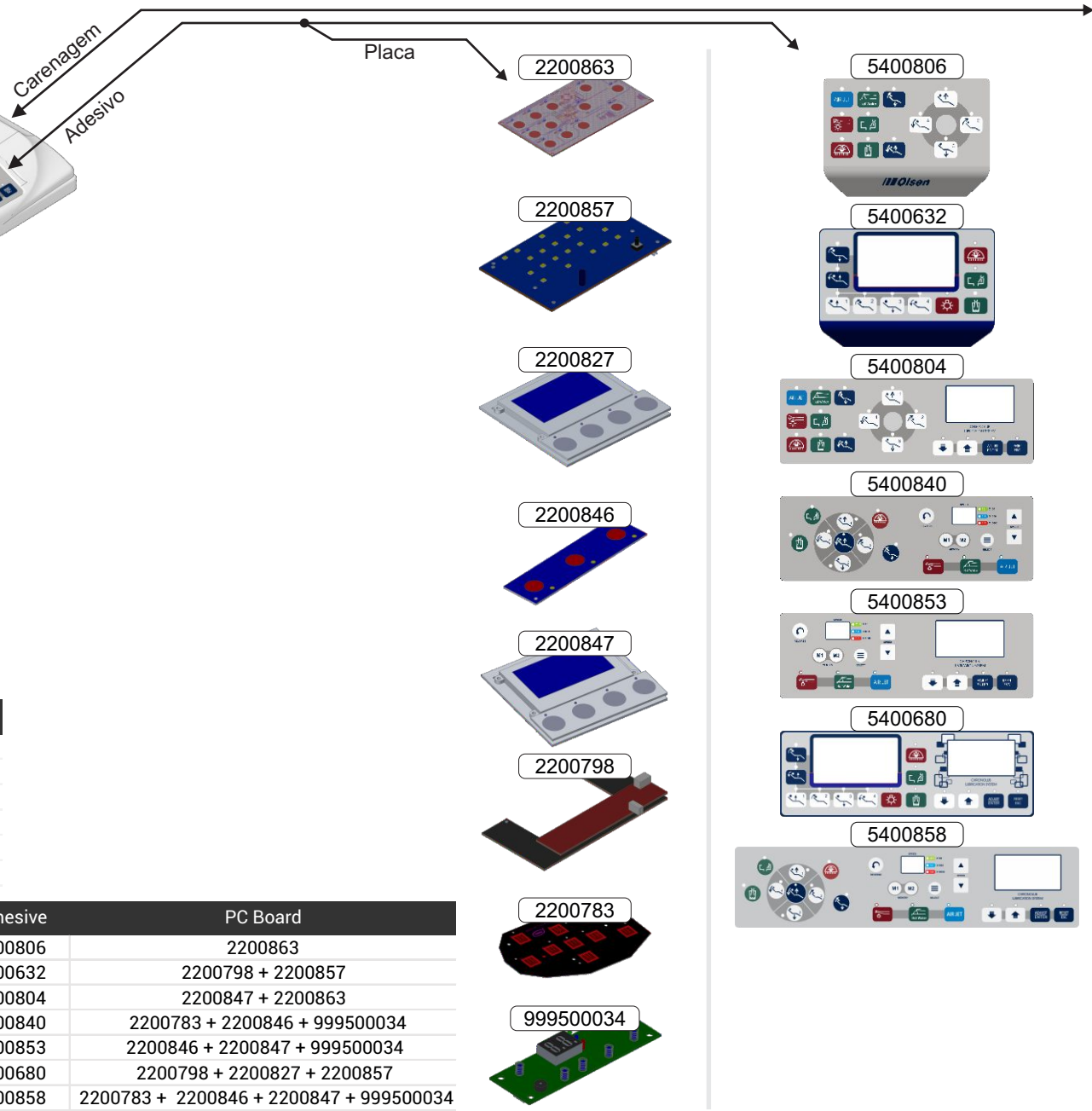
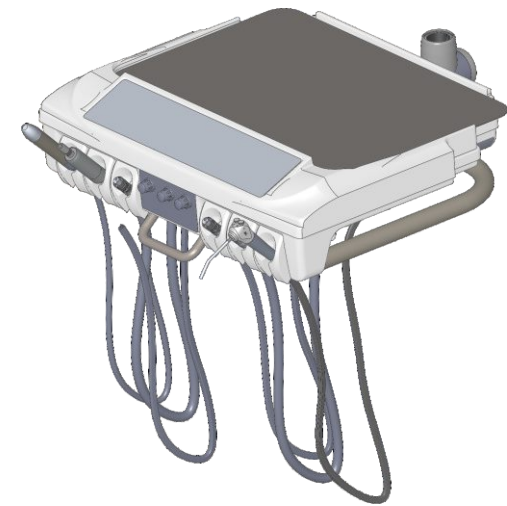
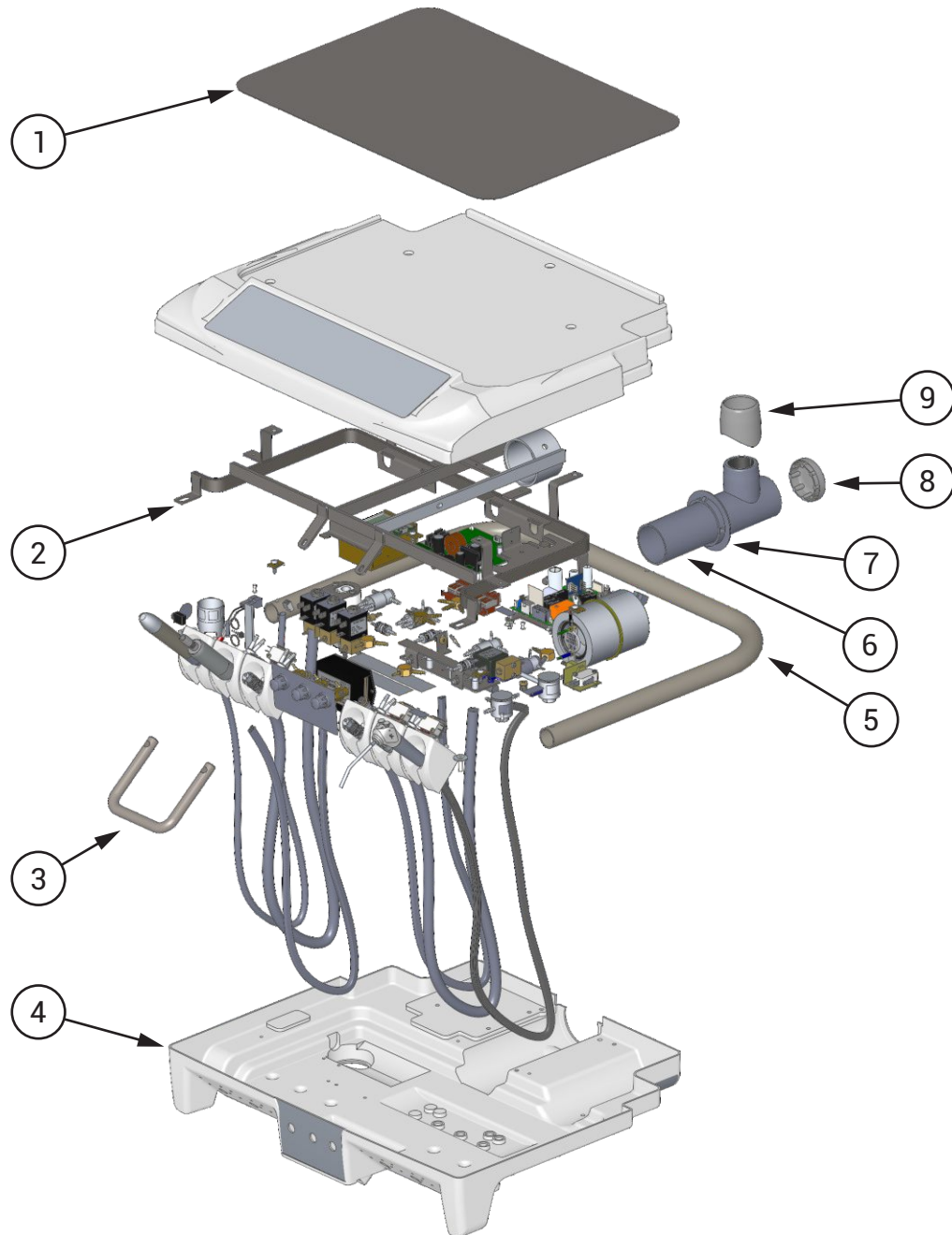


Table Legend

| Assembly | Cover + Adhesive + PC Board | | | | |
|----------|-----------------------------|--|--|--|--|
| T | Touch | | | | |
| X | X-Ray Viewer | | | | |
| C | Chronolub | | | | |
| AT | Auxiliary Touch | | | | |
| B | Brushless | | | | |

| Assembly | T | X | C | AT | B | Cove | Adhesive | PC Board |
|----------|---|---|---|----|---|---------|----------|---|
| 9302389 | ✓ | - | - | - | - | 8102339 | 5400806 | 2200863 |
| 9401150 | ✓ | ✓ | - | - | - | 8102068 | 5400632 | 2200798 + 2200857 |
| 9302350 | ✓ | - | ✓ | - | - | 8102306 | 5400804 | 2200847 + 2200863 |
| 9302415 | ✓ | - | - | ✓ | ✓ | 8102368 | 5400840 | 2200783 + 2200846 + 999500034 |
| 9302451 | - | - | ✓ | ✓ | ✓ | 8102393 | 5400853 | 2200846 + 2200847 + 999500034 |
| 9401148 | ✓ | ✓ | ✓ | - | - | 8102152 | 5400680 | 2200798 + 2200827 + 2200857 |
| 9302450 | - | - | ✓ | ✓ | ✓ | 8102392 | 5400858 | 2200783 + 2200846 + 2200847 + 999500034 |

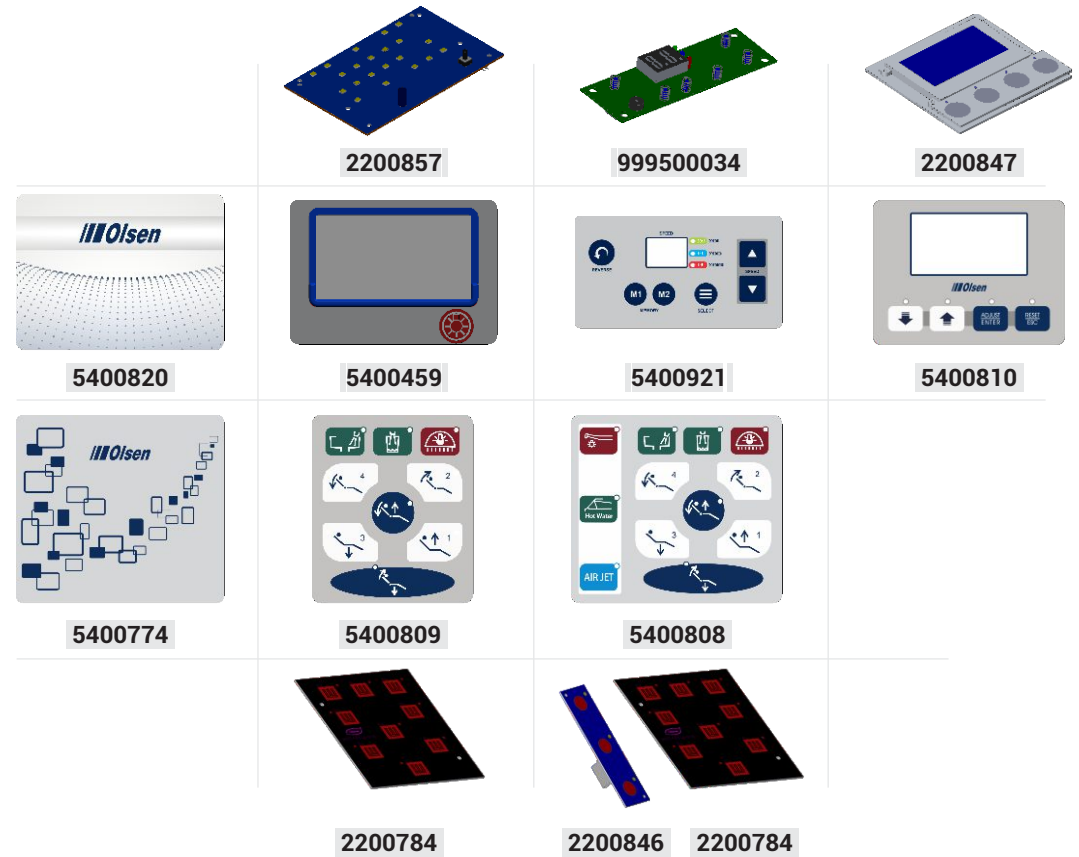
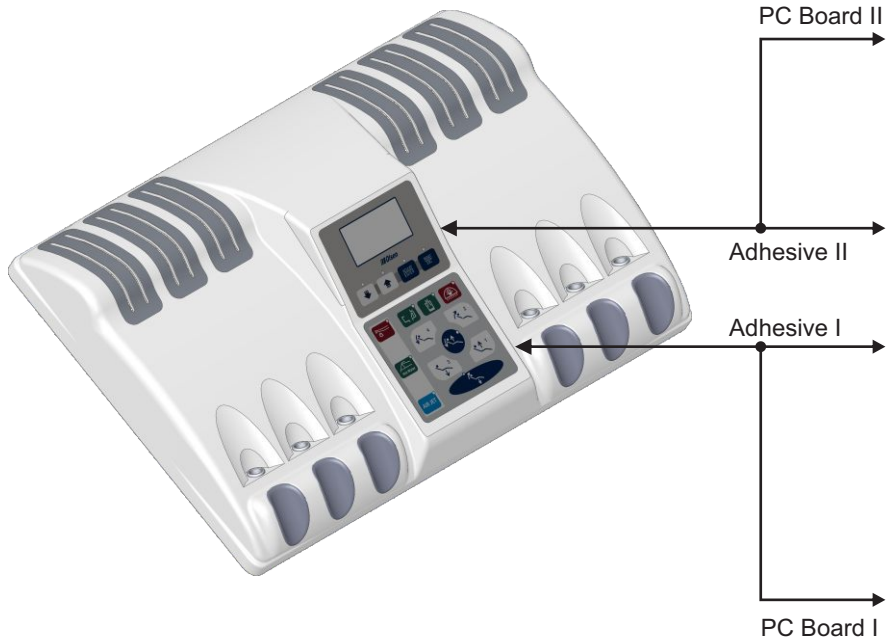
WORKING TABLE - PART II



⚠ With the intention of displaying more details, the Instruments and their Components, Electrical Components and Valves and Connections have dedicated pages:
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| Infinity Working Table | | MAS-IN 002 |
|------------------------|---------------------------------------|------------|
| 1 | Infinity Tray 18 | 8201319 |
| 2 | Infinity Working Table Structure | 9401121 |
| 3 | Infinity Working Table Central Handle | 8201166 |
| 4 | Infinity Working Table Lower Cover | 8102069 |
| 5 | Infinity Working Table Handle | 8201170 |
| 6 | Cross Flex Adjustable Arm | 9400929 |
| 7 | White Machined Finish Flange | 8101251 |
| 8 | Arm End Cap Ø2" 19 | 8102783 |
| 9 | Arm Finishing Cover Ø2" | 8101750 |

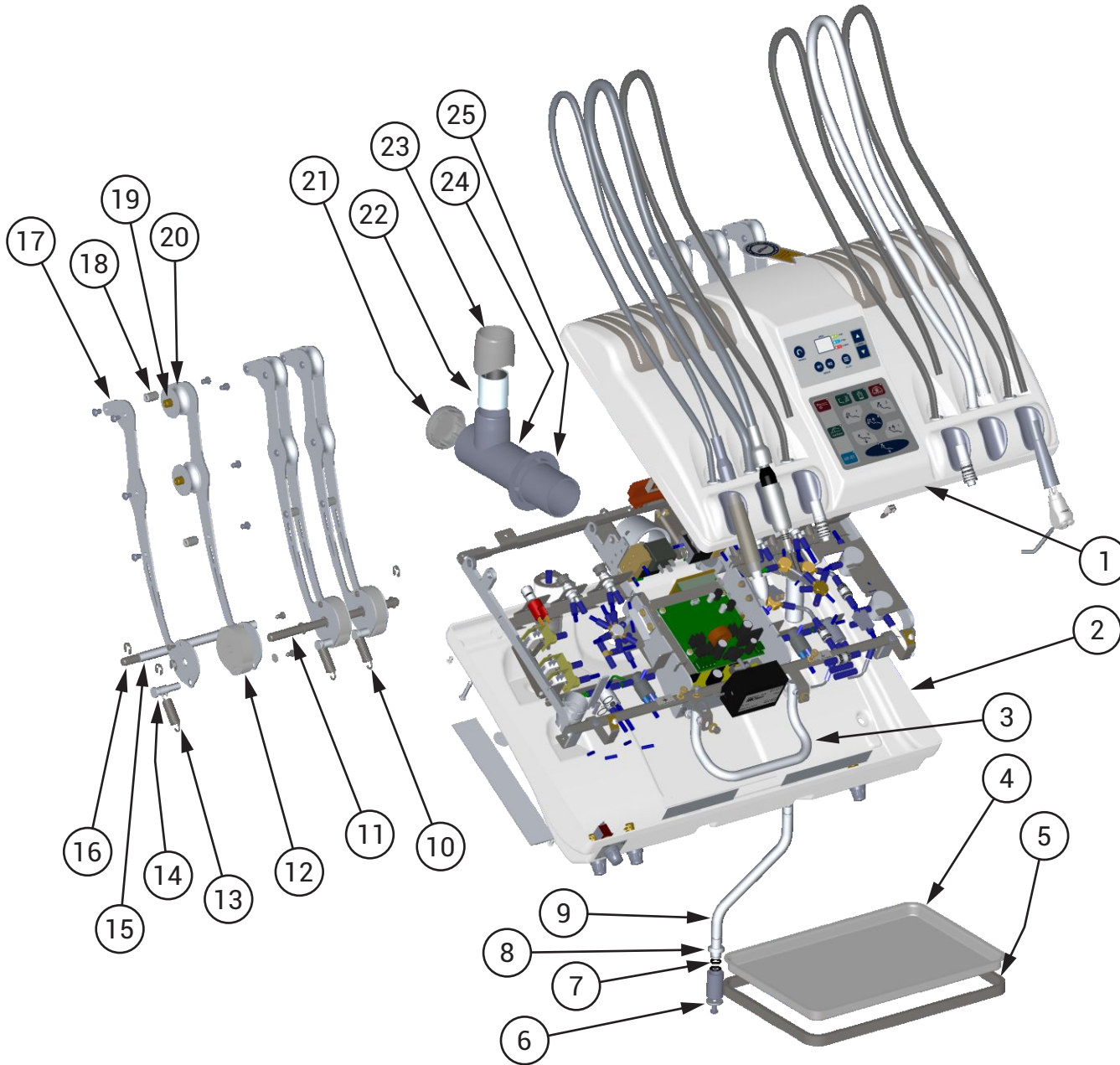
CROSS FLEX WORKING TABLE - PART I



| Table Legend | |
|--------------|-----------------------------|
| Assembly | Cover + Adhesive + PC Board |
| T | Touch |
| X | X-Ray Viewer |
| C | Chronolub |
| AT | Auxiliary Touch |
| B | Brushless |

| Assembly | T | X | C | AT | B | Adhesive I | Adhesive II | PC Board I | PC Board II |
|----------|---|---|---|----|---|------------|-------------|------------|-------------------|
| 9303095 | - | - | - | - | - | 5400820 | - | - | - |
| 9303096 | ✓ | - | - | - | - | 5400820 | 5400809 | - | 2200784 |
| 9303097 | ✓ | - | - | ✓ | - | 5400820 | 5400808 | - | 2200784 + 2200846 |
| 9303098 | - | ✓ | - | - | - | 5400459 | 5400774 | 2200857 | - |
| 9303099 | - | - | - | - | ✓ | 5400921 | 5400774 | 999500034 | - |
| 9303100 | - | - | ✓ | - | - | 5400810 | 5400774 | 2200847 | - |
| 9303101 | ✓ | ✓ | - | - | - | 5400459 | 5400809 | 2200857 | 2200784 |
| 9303102 | ✓ | - | - | - | ✓ | 5400921 | 5400809 | 999500034 | 2200784 |
| 9303103 | ✓ | - | ✓ | - | - | 5400810 | 5400809 | 2200847 | 2200784 |
| 9303104 | ✓ | - | - | ✓ | ✓ | 5400921 | 5400808 | 999500034 | 2200784 + 2200846 |
| 9303105 | ✓ | - | ✓ | ✓ | - | 5400810 | 5400808 | 2200847 | 2200784 + 2200846 |

CROSS FLEX WORKING TABLE - PART II

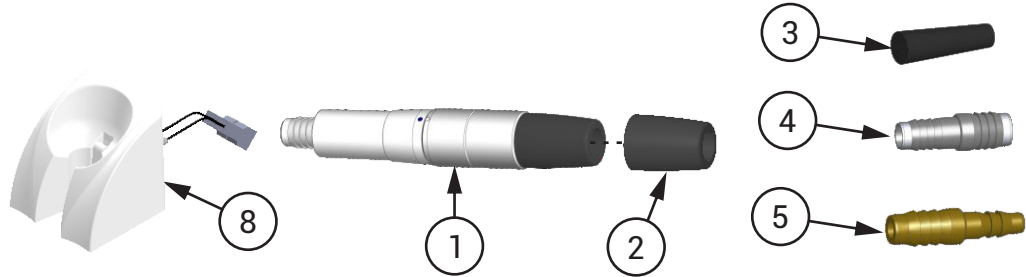


⚠ With the intention of displaying more details, the Instruments and their Components, Electrical Components and Valves and Connections have dedicated pages:
 Instruments and their Components 28 to 32
 Electrical Components 34
 Valves and Connections 36 to 37

Cross Flex Working Table 19 MAS-CF 004

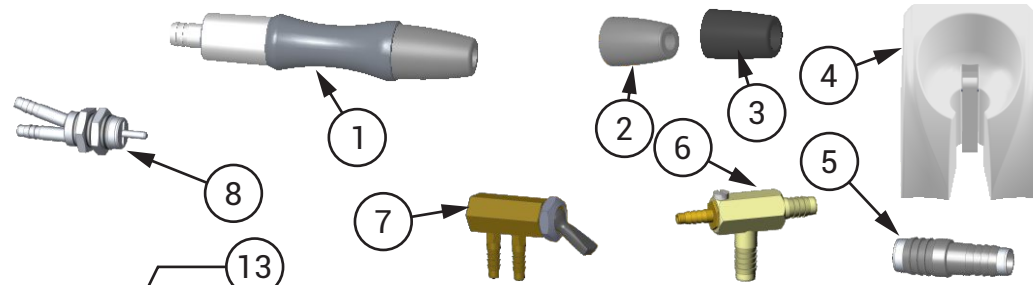
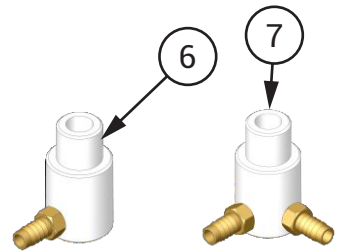
| | | |
|----|--|-----------|
| 1 | MSA-CF 18 Top Cover with Touch / Auxiliary Touch / Brushless | 8102512 |
| 2 | Lower Cover MSA-CF 18 | 8102504 |
| 3 | Cross Flex Logic Table Handle | 8002612 |
| 4 | Stainless steel tray 296 x 196.5 x 15.6 | 1100406 |
| 5 | Auxiliary tray structure of the MSA CF 19 | 9302839 |
| 6 | Lower Arm Finish | 8102807 |
| 7 | O'ring Ref. 2012 | 3100157 |
| 8 | Upper Arm Finishing | 8102808 |
| 9 | Auxiliary Tray MSA CF 19 | 8201342 |
| 10 | Stem Return Spring | 5201777 |
| 11 | Cross Flex Table and Mini Cross | 8002592 |
| 12 | Cross Flex Bearing Shaft | 8102227 |
| 13 | Cross Flex and Mini Cross Articulator Cam | 5201781 |
| 14 | 4Kg Cross Table Traction Spring | 8102226 |
| 15 | Pin Came Cross Flex and Mini Tables | 8102235 |
| 16 | Cross Flex Rod Stop Hose | 8002593 |
| 17 | Cross Flex Stop Shaft | 8002591 |
| 18 | Cross Flex and Mini Cross Nut Shaft | 8102228 |
| 19 | Cross Flex and Mini Cross Pulley Shaft | 8201199 |
| 20 | Cross Flex Pulley and Mini Cross | 8102229 |
| 21 | Arm Finish Fairing Ø2 "19 | 8102783 |
| 22 | Self Lubricating Bushing MU TFP 323640 - CX | 999500009 |
| 23 | Injected Finish of Bushing | 8102782 |
| 24 | Primary Arm SPSL P 19 | 9301297 |
| 25 | Adjustable Cross Flex Arm | 8101251 |

INSTRUMENTS AND THEIR COMPONENTS - PART I



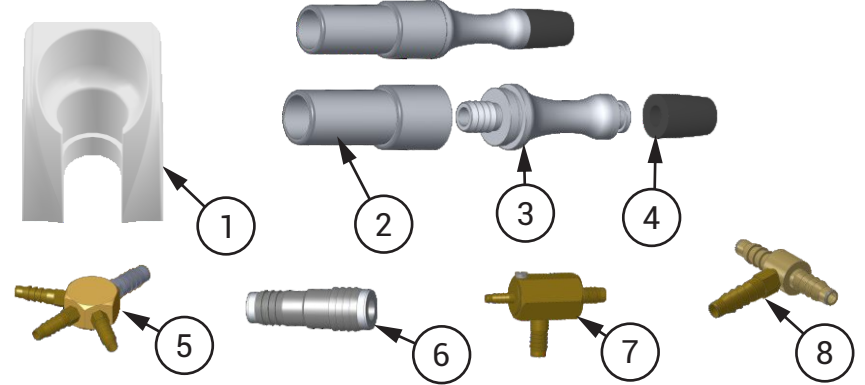
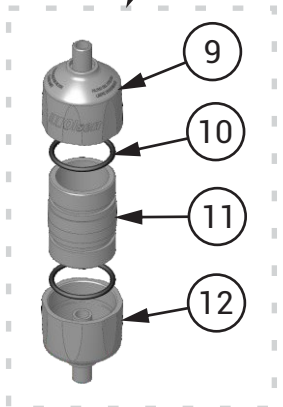
Vacuum Pump Ejector

| | | |
|---|--|---------|
| 1 | Olsen Vacuum Cleaner | 9400672 |
| 2 | Ejector Canula Connector | 8101775 |
| 3 | Sewer Cap | 8102818 |
| 4 | Double Spike | 8200895 |
| 5 | Union Terminal | 8201272 |
| 6 | Vacuum Pump Adapter 1 Ejector | 9301466 |
| 7 | Vacuum Pump Adapter 2 Ejectors | 9301467 |
| 8 | Scaler and Vacuum Pump Instrument Holder | 9401291 |



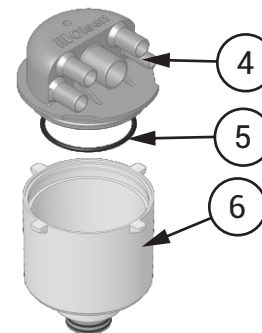
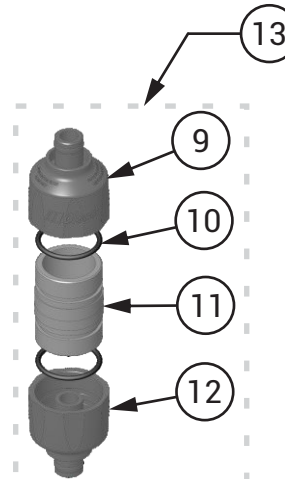
Venturi Ejector

| | | |
|----|---------------------------------|---------|
| 1 | I 20 Venturi Suction Connector | 9303143 |
| 2 | Ejector Canula Connector Ø6,3mm | 8101776 |
| 3 | Ejector Canula Connector Ø9,5mm | 8101775 |
| 4 | Instrument Holder with Reed | 9302573 |
| 5 | Double Spike | 8200895 |
| 6 | Venturi 18 Suction Set | 9401334 |
| 7 | Air Valve Click | 9302478 |
| 8 | Tip Support Valve | 3200121 |
| 9 | Venturi Suction Filter Cover | 8102854 |
| 10 | Oring | 3100221 |
| 11 | Filter Body | 8100001 |
| 12 | Venturi Suction Filter Cover | 8102778 |
| 13 | Venturi Suction Filter | 9300339 |



Vórtice Ejector

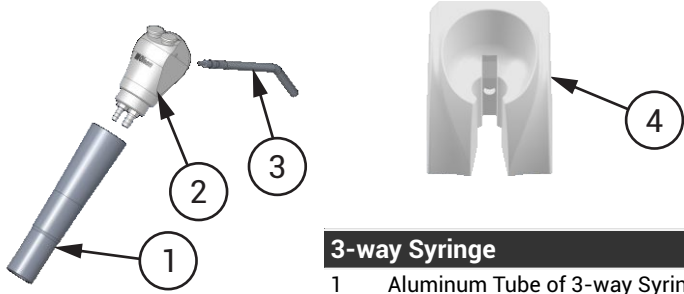
| | | |
|----|--|---------|
| 1 | Vórtice Ejector Instrument Holder | 8102510 |
| 2 | Ejector Female Body | 8201232 |
| 3 | Ejector Male Body | 8201233 |
| 4 | Ejector Canula Connector | 8101775 |
| 5 | 1 x 3 Way Distributor | 9300111 |
| 6 | HVE post | 8201229 |
| 7 | Vórtice Ejector Suction Set 18 | 9401335 |
| 8 | 3 Way Distributor - 3/16" | 9302704 |
| 9 | Injected Vórtice Ejector Filter Cover 19 | 8102855 |
| 10 | Oring ring | 3100221 |
| 11 | Filter Body | 8100001 |
| 12 | Injected Vórtice Suction Filter Cover 19 | 8102779 |
| 13 | Vórtice Suction Filter | 9302298 |



Sewer Connector

| | | |
|---|--------------------------|---------|
| 1 | Sewer Connector Cover 18 | 8102645 |
| 2 | Oring | 3100220 |
| 3 | Sewer Connector Body 18 | 8102647 |

INSTRUMENTS AND THEIR COMPONENTS - PART II



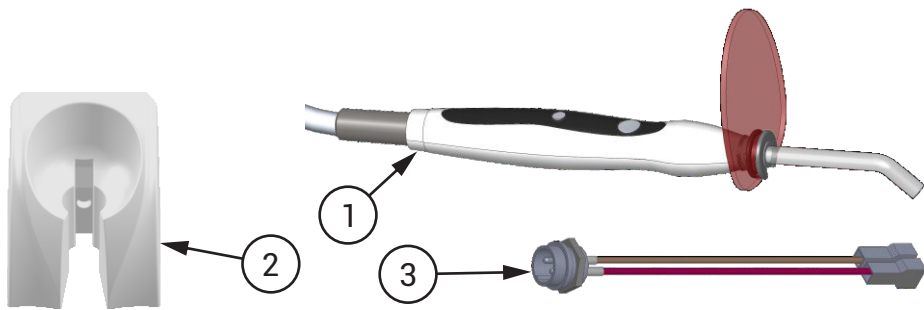
3-way Syringe

| | | |
|---|---------------------------------|-----------|
| 1 | Aluminum Tube of 3-way Syringe | 999500017 |
| 2 | Hydropneumatic Metal Valve | 999500019 |
| 3 | Hydropneumatic Metal Tube | 999500018 |
| 4 | 3-way Syringe Instrument Holder | 8102383 |



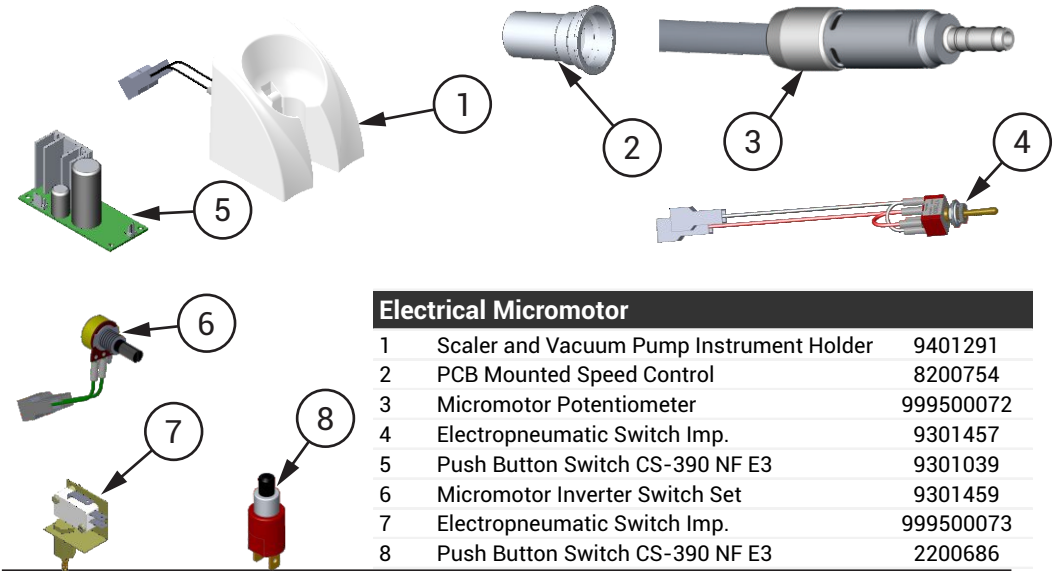
Prophy-Jet

999500042



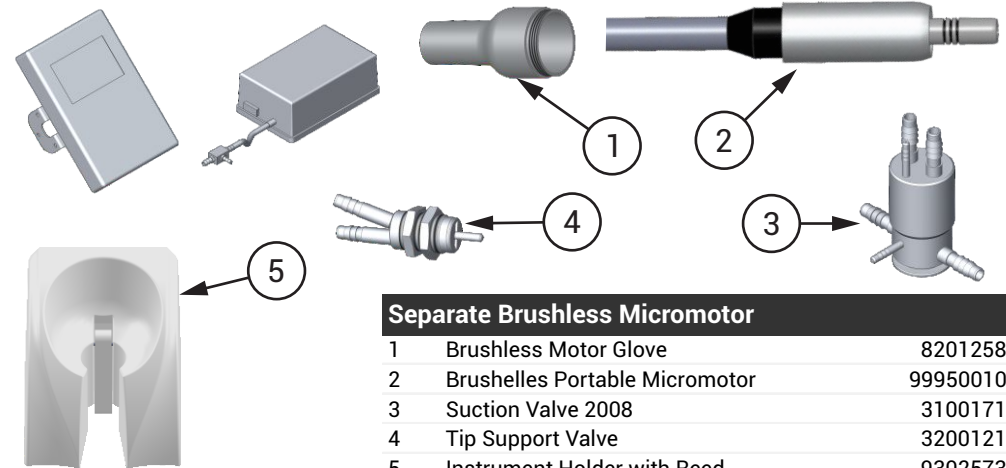
Curing Light

| | | |
|---|---------------------------------|-----------|
| 1 | Olsen G LED Light Curing Light | 999500006 |
| 2 | 3-way Syringe Instrument Holder | 8102383 |
| 3 | Pre-Assembled Connector | 9301477 |



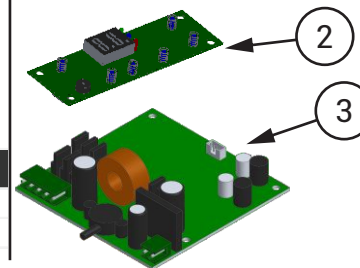
Electrical Micromotor

| | | |
|---|--|-----------|
| 1 | Scaler and Vacuum Pump Instrument Holder | 9401291 |
| 2 | PCB Mounted Speed Control | 8200754 |
| 3 | Micromotor Potentiometer | 999500072 |
| 4 | Electropneumatic Switch Imp. | 9301457 |
| 5 | Push Button Switch CS-390 NF E3 | 9301039 |
| 6 | Micromotor Inverter Switch Set | 9301459 |
| 7 | Electropneumatic Switch Imp. | 999500073 |
| 8 | Push Button Switch CS-390 NF E3 | 2200686 |



Separate Brushless Micromotor

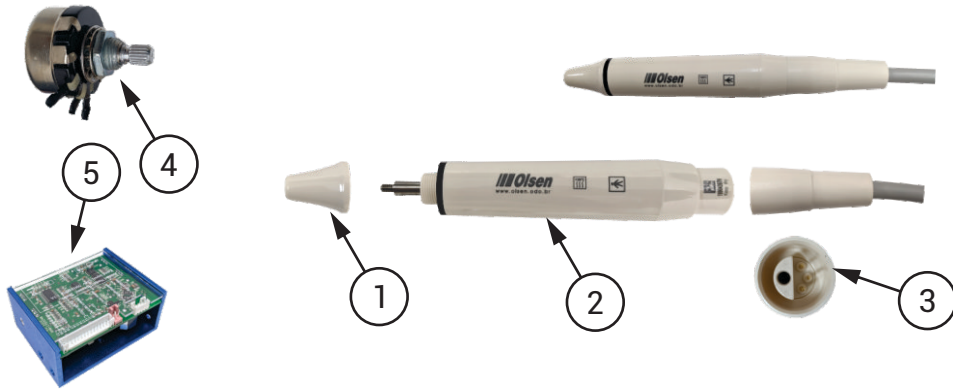
| | | |
|---|--------------------------------|-----------|
| 1 | Brushless Motor Glove | 8201258 |
| 2 | Brushelles Portable Micromotor | 999500107 |
| 3 | Suction Valve 2008 | 3100171 |
| 4 | Tip Support Valve | 3200121 |
| 5 | Instrument Holder with Reed | 9302573 |



Brushless Micromotor

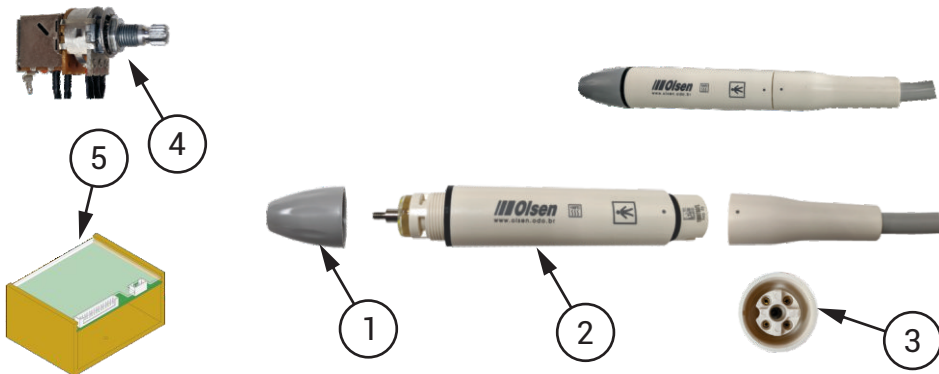
| | | |
|---|---|-----------|
| 1 | Electric Motor for Densist Chair - C-Puma | 999500035 |
| 2 | Panel Electronic PC Board - C-Puma | 999500034 |
| 3 | Main Electronic PC Board - C-Puma | 999500033 |

INSTRUMENTS AND THEIR COMPONENTS - PART III



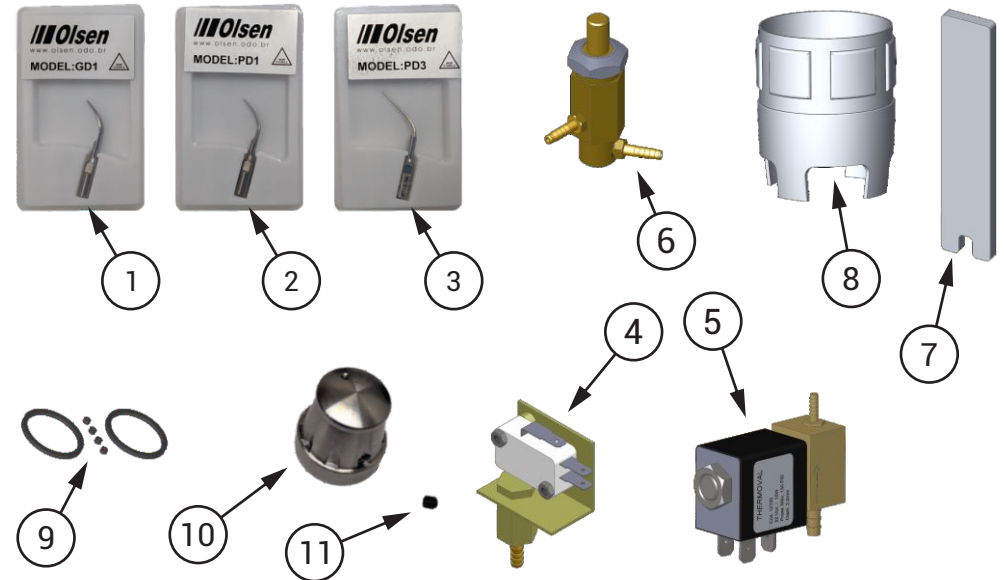
Scaler without LED

| | | |
|---|--|-----------|
| 1 | Finishing Tip (Hand Piece For V2 Led) | 999500129 |
| 2 | Main Body V2 (Handi piece For V2) | 999500127 |
| 3 | Plastic water passage pipe (Water Pipe For V2) | 999500126 |
| 4 | Potentiometer for V2 (Power Wrench For V2) | 9303008 |
| 5 | Olsen Scaler V2 LED Electronic Board | 999500111 |



Scaler with LED

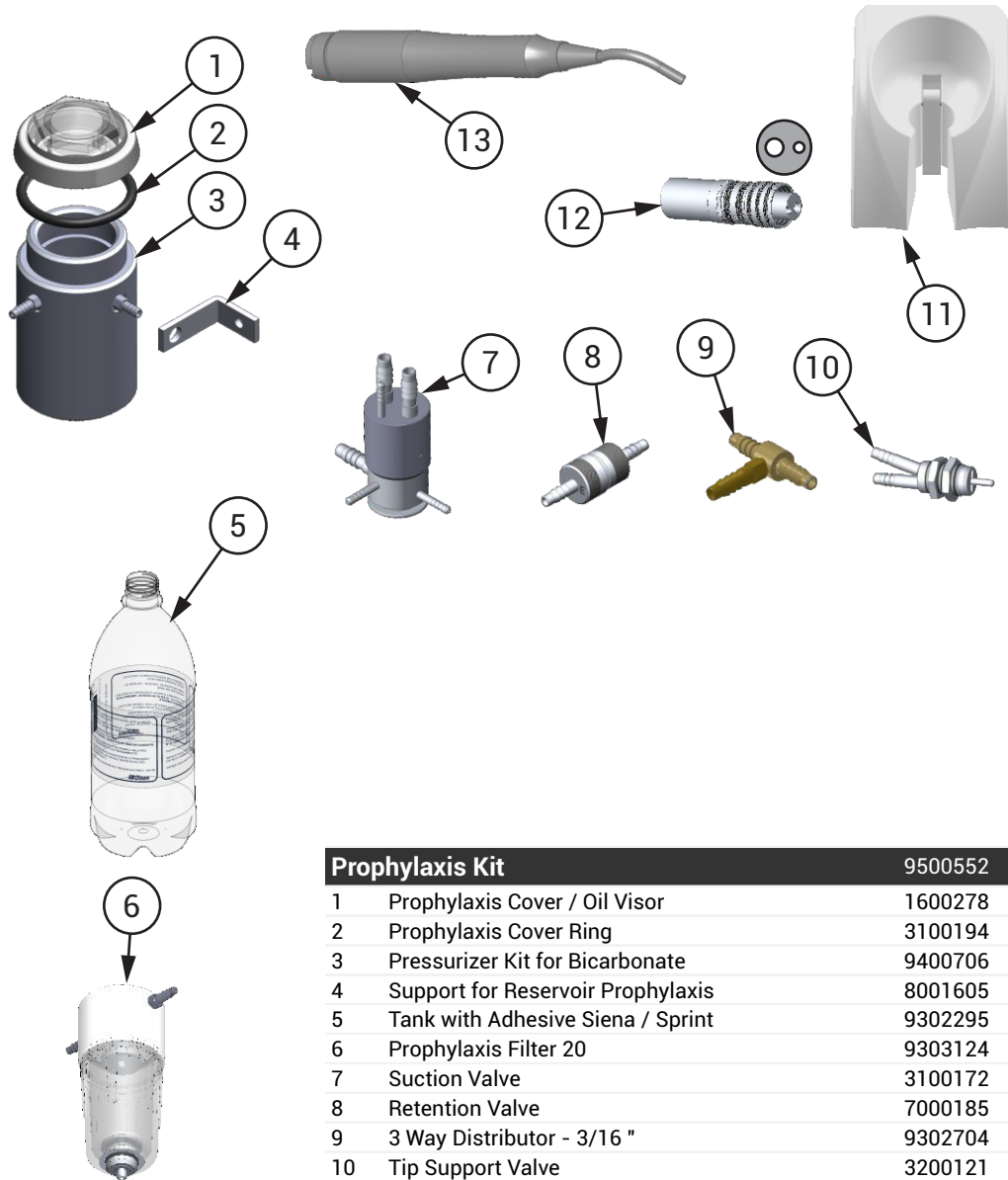
| | | |
|---|---|-----------|
| 1 | Finishing Tip (Hand Piece For V3 Led) | 999500026 |
| 2 | Main Body (Hand Piece For V3 Led) | 999500021 |
| 3 | Plastic Pipe for Water Passage (Water Pipe For V3 and V2) | 999500020 |
| 4 | Scaler Pot | 9302153 |
| 5 | Printed Circuit with Led (PCB For V3 Led) | 999500025 |



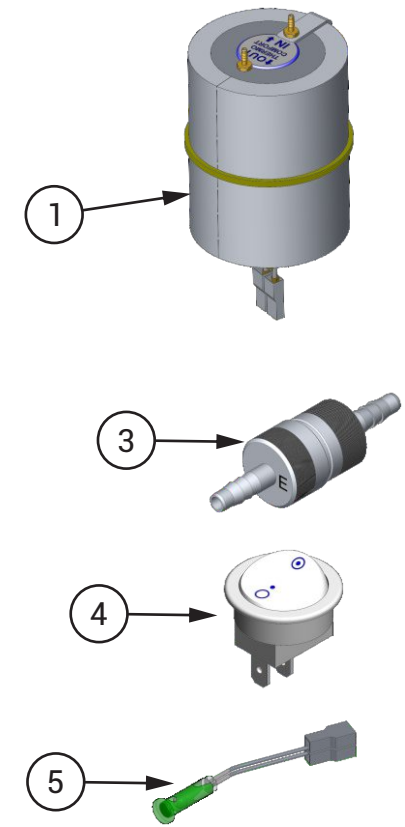
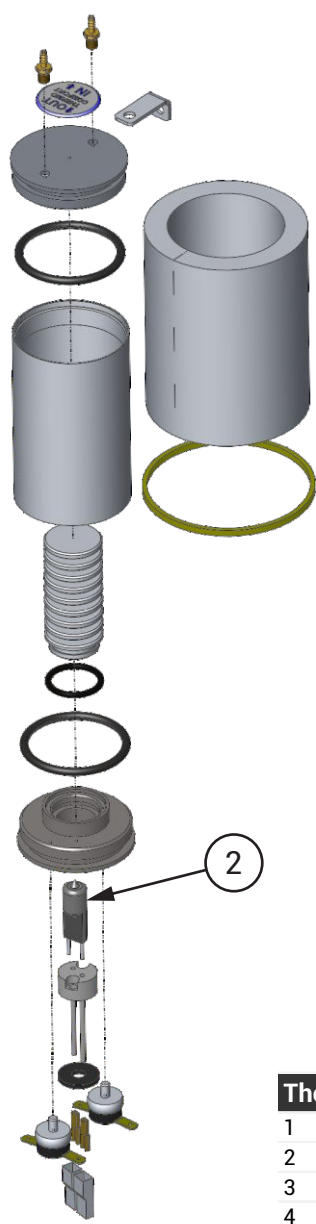
Scaler Accessories with LED

| | | |
|----|---|-----------|
| 1 | Tip for Piezo TIP GD1 - (US1) | 999400009 |
| 2 | PD1 Chiseling Tip for Piezo Light | 999400013 |
| 3 | PD3 Chiseling Tip for Piezo Light | 999400024 |
| 4 | Electro-Pneumatic Switch Imp. | 999500073 |
| 5 | Solenoid Valve 10W 32Vdc - Thermoval (12,100) | 3100212 |
| 6 | Ultrasonic Water Regulator Record / Logic Table | 9401118 |
| 7 | Nut Tight Hand Tool (Endo Wrench For V3 Led) | 999500022 |
| 8 | Screw Grip Hand Tool (Torque Wrench For V3 Led) | 999500097 |
| 9 | V3 Led Repair Kit | 999500027 |
| 10 | Water Adjustment Valve Button | 8201160 |
| 11 | Hexagon screw | 5200729 |
| 12 | Scaler and Vacuum Pump Instrument Holder | 9401291 |

INSTRUMENTS AND THEIR COMPONENTS - PART IV

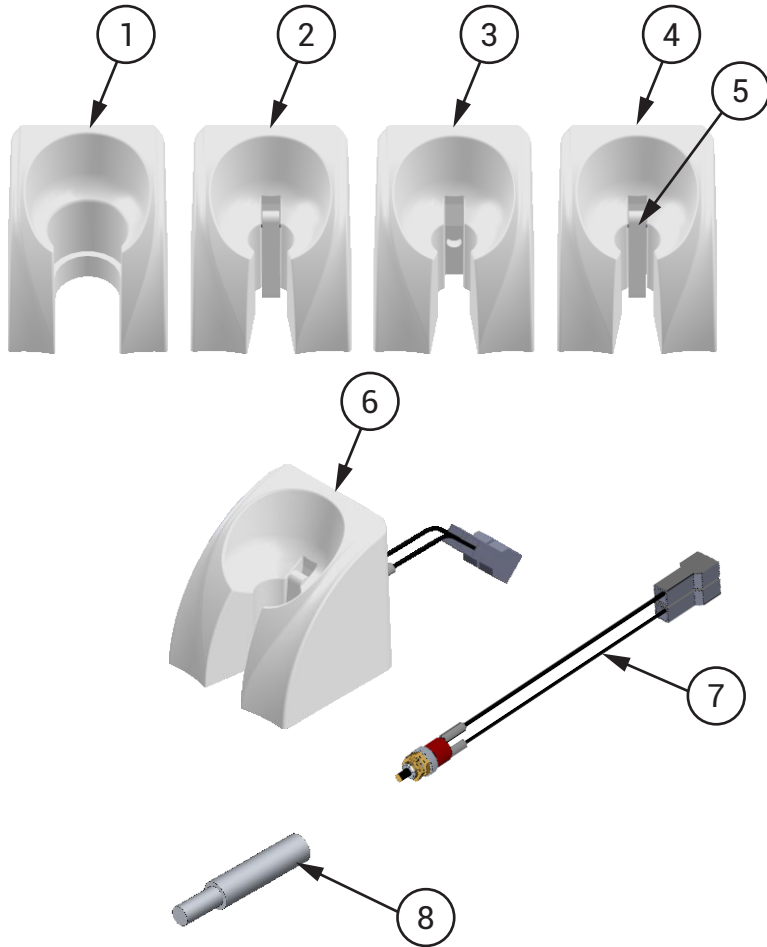


| Prophylaxis Kit | | 9500552 |
|-----------------|------------------------------------|---------|
| 1 | Prophylaxis Cover / Oil Visor | 1600278 |
| 2 | Prophylaxis Cover Ring | 3100194 |
| 3 | Pressurizer Kit for Bicarbonate | 9400706 |
| 4 | Support for Reservoir Prophylaxis | 8001605 |
| 5 | Tank with Adhesive Siena / Sprint | 9302295 |
| 6 | Prophylaxis Filter 20 | 9303124 |
| 7 | Suction Valve | 3100172 |
| 8 | Retention Valve | 7000185 |
| 9 | 3 Way Distributor - 3/16 " | 9302704 |
| 10 | Tip Support Valve | 3200121 |
| 11 | Instrument Holder with Reed | 9302573 |
| 12 | Borden Terminal with Refrigeration | 7000122 |
| 13 | Olsen Prophylaxis Pen | 7000334 |



| Thermo Comfort | | 9302156 |
|----------------|------------------------------|---------|
| 1 | Thermo Comfort Inox | 9302156 |
| 2 | Halostar lamp OSRAM 12V 50 W | 2200685 |
| 3 | Retention valve | 7000185 |
| 4 | Round Key Switch | 2200860 |
| 5 | LED TM13ST 12V | 2200813 |

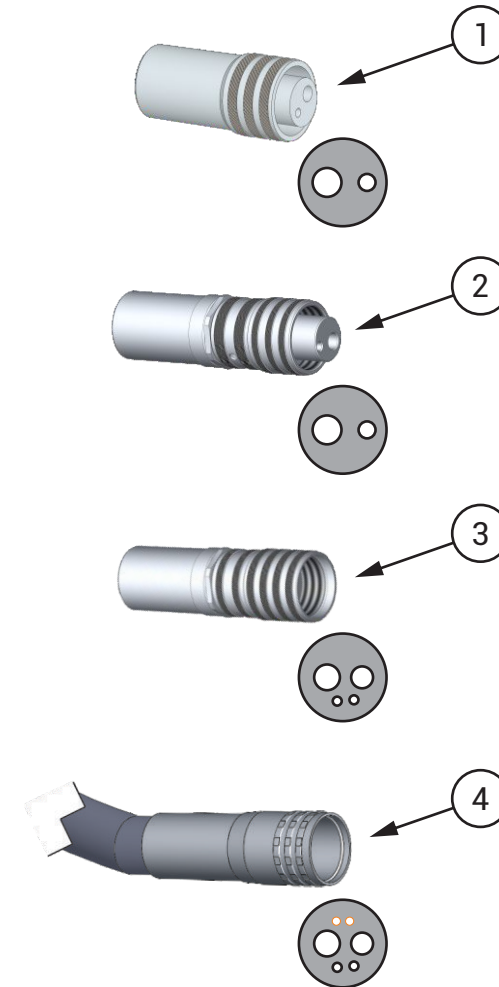
INSTRUMENTS HOLDER



Instruments Holder

| | | |
|---|--|---------|
| 1 | Vórtice Ejector Instrument Holder | 8102510 |
| 2 | Air Jet Instrument Holder | 9302579 |
| 3 | 3-way Syringe Instrument Holder | 8102383 |
| 4 | Instrument Holder with Reed | 9302573 |
| 5 | Instrument Holder Reed | 8100106 |
| 6 | Scaler and Vacuum Pump Instrument Holder | 9401291 |
| 7 | Micro Switch for Scaler and Vacuum Pump | 9300612 |
| 8 | Air Jet Drive Pin | 8101605 |

COUPLING TERMINALS



Coupling Terminals for Instruments

| | | |
|---|---------------------------------------|-----------|
| 1 | Borden Terminal without Refrigeration | 7000121 |
| 2 | Borden Terminal with Refrigeration | 7000122 |
| 3 | Midwest Terminal | 7000159 |
| 4 | Midwest Fiber Optics Set | 999500069 |

INTRODUCTION TO THE PARTS PRESENTED IN THIS SECTION

- Parts
 - Hoses 31
 - Electrical Components
 - Electrical Components - Part I 32
 - Electrical Components - Part II 33
 - Valves and Connections
 - Valves and Connections - Part I 34
 - Valves and Connections - Part II 35

The tables below show the main hoses of the equipment.

Air Hoses



| Description | Code | Application |
|-----------------------------|---------|-----------------------|
| PU Blue Hose Ø 4,76 x 2mm | 3300004 | Main Air Entrance |
| PU Blue Hose Ø 3,2 x 1mm | 3300159 | Internal Distribution |
| PU Blue Hose Ø 3,2 x 0,5mm | 3300161 | Midwest Coupling |
| PU Blue Hose Ø 1,6 x 0,8mm | 3300122 | Flex Arm Brake |
| PU Blue Hose Ø 2,5 x 0,75mm | 3300144 | HVE |
| PU Blue Hose Ø 1,5 x 0,5mm | 3300162 | Midwest Coupling |

Water Hoses



| Description | Code | Application |
|-----------------------------|---------|-----------------------|
| Green PU Hose Ø 5,7 x 2mm | 3300104 | Main Water Entrance |
| Green PU Hose Ø 3,2 x 1mm | 3300160 | Internal Distribution |
| Green PU Hose Ø 1,5 x 0,5mm | 3300163 | Midwest Coupling |

PVC Grey Hoses



| Description | Code | Application |
|---------------------------------|---------|------------------|
| Gray Flexible Hose Ø 15.9 x 2mm | 3300115 | Pedal |
| PVC Grey Hose Ø 9 x 0,85mm | 3300164 | Midwest Coupling |
| Malleable Gray Hose Ø 6.3 x 1mm | 3300001 | Operating Light |
| PVC Grey Hose Ø 8 x 1,5mm | 3300002 | Vacuum Pump |
| PVC Grey Hose Ø 5,7 x 1,5mm | 3300149 | Venturi Ejector |

Cristal Hoses



| Description | Code | Application |
|----------------------------|---------|----------------------------|
| Cable gland Ø 20mm | 2200680 | Flex Arm |
| Cristal Hose Ø 6,3 x 2mm | 3300109 | Sewer Cupfiller / Ejectors |
| Cristal Hose Ø 3,2 x 0,5mm | 3300165 | Midwest Coupling |
| Cristal Hose Ø 12,7 x 2mm | 3300112 | Midwest Filter |

Corrugated Hoses



| Description | Code | Application |
|--------------------------------|---------|----------------------------|
| Corrugated Hose Ø 31,7mm | 3300117 | Delivery Unit / Water Unit |
| Gray Corrugated Hose Ø 38.1mm | 3300146 | Junction Box |
| Corrugated Grey Hose Ø 19mm | 3300147 | S. Bowl Sewer / Steady Arm |
| Corrugated Beige Hose Ø 12,7mm | 3300131 | HVE |



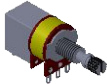

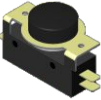
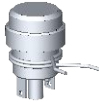

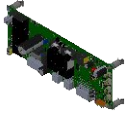



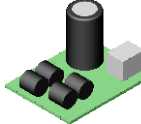

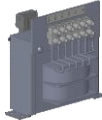

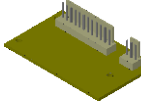

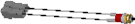
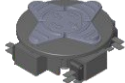
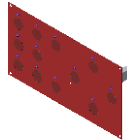
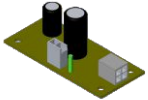


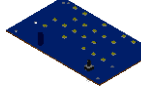



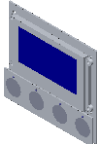
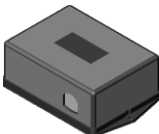

Special Hoses



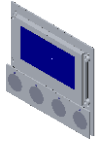
| Description | Code | Application |
|----------------------------|---------|-----------------------------|
| Double Grey Hose for Pedal | 3300123 | Propulsion Pedal |
| Triple Pedal Hose Gray L. | 3300124 | Pedal Duplo |
| 3-way Grey Hose | 3300142 | Borden Coupling |
| 4-way Hose (Midwest) | 3300151 | Midwest Coupling Olde Model |

ELECTRICAL COMPONENTS- PART I

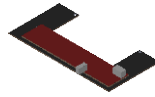
Below is a list with the drawings, codes and description of the Electrical Components

| | | | | | | | |
|--|---|---|--|---|---|---|--|
|  | 2200371 Micro Switch PushButton 0.5 INF |  | 2200813 LED TM13ST 12V LED |  | 9302153 Scaler Potentiometer |  | 2200396 Emergency Switch |
|  | 2200186 Microswitch MG-2608 IR / E3G 20A |  | 2200848 Pushbutton switch CS-392 NA / E1BB 0.5A |  | 9302156 Thermo Comfort Inox |  | 2200918 Infinity CPU Board |
|  | 2200373 Inverter Micro Switch |  | 2200860 Round Key Switch |  | 9302218 Cup holder activation button Siena / Quality 2016 |  | 9300728 Rectifier PCB Board |
|  | 2200714 Round Switch with Lamp 16123 M9BT10DE2S 16123 M9BT10DE2S |  | 2200914 SMC Transformer 124.2VA 0 / 118V / 127V / 220V / 230V 0.6KV 50 / 60HZ |  | 9302328 Water activation button Siena / Quality 2016 |  | 2200781 Foot Pedal Board Serial R232 |
|  | 2200767 Touch Sensor 24VAC (Olsen) |  | 9300612 Vacuum Pump Micro Switch |  | 9302557 Electric Drive Pedal |  | 2200863 Integrated Capacitive Touch PC Board |
|  | 2200796 Fiber Optics Convert Board 24 / 3.3 AC / DC |  | 9301457 Micromotor Inverter Switch Set |  | 2200277 Micro Chave BR15IL - QACF |  | 2200857 X-ray with Touch Coupling PC Board 24Vca |
|  | 999500023 Electronic PC Board for Operating Light |  | 9301459 Micromotor Potentiometer |  | 2200194 Micro Chave BR15IL - QAAA |  | 2200827 Chronolub Activation PC Board |
|  | 2200804 LED for Operating Light Olsen - Cree XLamp XM- L2 Leds |  | 9301460 Micromotor Micro Switch |  | 2200873 USB Chager PC Board |  | 2200846 Auxiliary Touch PC Board |

ELECTRICAL COMPONENTS- PART II



2200847
Chronolub Activation PC Board
R232



2200798
Capacitive Touch PC Board



2200783
Module Touch PC Board

VALVES AND CONNECTIONS - PART I

Below is a list with the drawings, codes and description of the Valves and Connections that appear in the hydropneumatic diagrams.

| | | | | | | | |
|---|---|---|--|---|---|--|---|
|  | 3100121 Reduction Valve |  | 3100213 Solenoid Valve 32Vdc 10W - Thermoal (21,711) |  | 8201232 Ejector Female Body |  | 9301866 Distributor Thermo Comfort Syringe / Scaler |
|  | 3100136 Water Valve (Button) |  | 3200113 Spray Flow Adjustable Valve |  | 8201233 Ejector Male Body |  | 9302156 Thermo Comfort Inox |
|  | 3100140 4 Way Multiple Flow Adjustable Valve |  | 3200121 Tip Support Valve |  | 9300111 1 x 3 Way Distributor |  | 9302256 3 Way Distributor - 3/16 \"x 3/16\" x 3/32 \" |
|  | 3100159 3 Way Multiple Flow Adjustable Valve |  | 7000121 Sleeve and Terminal for Micromotor |  | 9300137 1 x 2 Way Distributor |  | 9302478 Air Valve Click |
|  | 3100171 Suction Valve 2008 |  | 7000122 3-way hose for High Speed |  | 9301344 Brake Pushbutton for Flex Arm Single Tray |  | 9302704 3 Way Distributor - 3/16 \" |
|  | 3100172 Suction Valve 2008 with Terminal |  | 7000185 Retention valve |  | 9303124 20 Prophylaxis Filter |  | 9303053 Filter for Midwest and Fiber Optics |
|  | 3100211 Solenoid Valve 32Vdc 10W (21710) w / Muffler for Capacitive System |  | 7000334 Olsen Prophylaxis Pen (Meditec) |  | 9303143 I 20 Venturi Suction Connector |  | 9400077 Complete Water Valve |
|  | 3100212 Solenoid Valve 32Vdc 10W - Thermoal (12,100) |  | 8101775 Cannula Ejector Connector Ø 9.5mm |  | 9400635 Logic Progressive Valve |  | 9300283 "T" Valve Set 7,94 |

VALVES AND CONNECTIONS - PART II

| | | | | | | | |
|--|---|---|---|---|---|--|---|
|  | 9400672 Olsen Vacuum Ejector |  | 999500017 Aluminum Tube Ø 16 x 82 mm (for Syringe) |  | 7000185 Retention valve |  | 8101776 Cannula Suction Connector |
|  | 9400706 Pressurizer Kit for Bicarbonate |  | 999500018 Hydropneumatic Metal Tube (for Syringe) |  | 8201043 Connection Ø 4 x 20mm |  | 3100162 Tank Water Filter |
|  | 9401020 Water Unit Inlet Valve |  | 999500019 Hydropneumatic Metal Valve (for Syringe) |  | 9301147 1 x 3 Way Distributor Ø 3/16 |  | 9302276 5 Way Distributor |
|  | 9401118 Scaler Water Adjustment Valve / Logic Table |  | 999500020 Plastic Pipe for Water Passage (Water Pipe For V3 and V2) |  | 9400557 Long Water Valve Complete |  | 9302442 Air Distributor for C-puma Electric Motor |
|  | 9401202 Tank Filter Kit Siena / Sprint |  | 999500025 Printed Circuit with Led (PCB For V3 Led) |  | 9401021 Olsen Progressive Actuation Valve |  | 9302732 5 Way Distributor 3/16" |
|  | 9401247 Valve Adjustment for Fiber Optics |  | 999500069 Fiber Optics Hose Assembly Imp. |  | 9401369 SPSLI 18 Scaler Connection Set |  | 9301266 4 Way Distributor 3/16" |
|  | 9401334 Ejector Set Venturi 18 |  | 999500073 Electro-Pneumatic Switch Imp. |  | 9302942 Series Distributor I 19 | | |
|  | 9401335 Ejector Set Vórtice 18 |  | 3100143 Pneumatic Brake Valve |  | 999500070 Air Regulator with Imp Filter.. | | |

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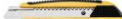











HYDROPNEUMATIC DIAGRAMS

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TOOL LIST

Below is the list of recommended tools to installation and maintenance Olsen Medical and Dental Units.

| | | | | |
|--|--|--|--|---|
|  Universal Plier with Electrical Insulation |  Cutting Plier with Electrical Insulation |  Long Nose Plier with Electrical Insulation |  Retaining Rings Plier |  Jaw Plier |
|  Riveter |  Flat Blade Screw Driver: 1/8 x 2" - 1/8 x 4" - 1/4 x 6" - 3/8 x 10" - 3/16 x 4" |  Philips Screwdriver: 3/16 x 4" - 3/16 x 6" |  Short Handle Flat Blade Screwdriver: 1/4" x 1.1/2" |  Short Handle Philips: 1/4" x 1.1/2" |
|  L Wrench: 10 x 10 e 11 x 11mm |  L Wrench with Hole 11 x 11mm |  Open End Wrenches: from 6mm to 23mm |  Combination Wrenches Set: from 6mm to 24mm |  Adjustable Wrench |
|  Chaves Allen Curta: 1,5 - 2,0 - 2,5 - 3,0 - 4,0 - 5,0 - 6,0 - 7,0 - 8,0 - 9,0 - 10,0mm |  Long Hex Keys: 1,5 - 2,0 - 2,5 - 3,0mm |  Bal Point Hex Keys: 5 and 6mm |  T Handle Ball Pointed Hex Key: 2,5 and 3 mm |  Nail Remover Screwdriver 7.3/8" |
|  Cabinet Rasp 9" |  Cabinet File, Smooth Cut 8" |  Hammer |  Nylon's Hammer |  Measuring Tape 3 meters |
|  Hammer Drill 1" - 550 Watts |  Hole Saw Set for Wood |  Concrete Drill Set from 4,00 to 10mm |  Steel Drill Set from 1,0 to 13,0 mm |  Extension Cord 3 meters |
|  Magnetic Level |  Hacksaw |  Small Cutter |  Universal Scissors |  Insulated Tweezer with Narrow Tip |
|  Testing Screwdriver |  Digital Multimeter |  Soldering Iron 70 Watts |  Manometer 0 to 6 BAR for Borden Coupling |  Manometer 0 to 6 BAR fo Midwest Coupling |
|  Caliper Rule 150mm |  Tool Center 18 Irwin |  Tool Case |  Cart for Boxes | |

PRE-INSTALLATION

- › **Compressed Air:** Dental compressor should form the basic technical characteristics, pressure between 5.5 and 7.0 (80 to 100 psi), minimum displacement of 150 l / min. and 30-liter tank, oil-free. Recommend use of coalescing filter in the air inlet of the equipment. Pipes: - Up to 10 meters: use hose ¼ "- 10 to 20 meters: use hose 5 / 16" Use specific woven hose for compressed air. For longer stretches, it is recommended project of distribution with specific rigid pipe.
- › **Piping:** - Up to 10 meters: 1/4 "hose; - From 10 to 20 meters: use a 5/16 "hose; Use a woven hose specifically for compressed air. For greater distances, a distribution design with specific rigid tubing is recommended.
- › **Water to Spittoon Bowl and Cup-filler:** install easy access key which will be used to stop the supply of water to the equipment at the end of the day and also to limit the water pressure, if necessary. The water pressure must be between 2.8 and 6.0 bar and ideal pH between 6.5 and 8. If the water pressure is insufficient, we recommend consulting an experienced professional for hydraulic systems. We recommend the use of water filter in the input line of equipment.
- › **Sewage System:** the sewage net must present good hydraulic declivity and should preferably be installed underground. The nominal diameter of the tubing must be of 40 mm. Use independent branches for the sewage of the Water Unit.
- › **Power Supply:** the power net must be single phase, specifically grounded and must have thermal circuit breaker exclusive for the dental set. Should the power net present tension variations a power stabilizer must be installed. The circuit braker must be turned off everyday after work hours.
- › **Chair Fixation Points:** The chair must be fixed to the floor, except when using the optional rubber mat. Not observing this instruction will result in loosing the warranty.

CUSTOMER INSTRUCTIONS

- › **Able Professional Operation:** this equipment must be operated by professional who have the ability to work on dental procedures.
- › **Storage:** before the first operation or after long stop periods (weekends, holidays, vacations), the user must eliminate all air and water stuck inside the hoses, shut off the water-cocks, depressurize and empty the water tank, turn the general switch and the general circuit breaker off. For reactivation of the unit, verify the funtioning of the entire set before starting operation.
- › **Direct Exposure to Sunlight:** the equipment must not be exposed directly to solar light to prevent from the plastic covers and/or the upholstery to wear out precociously.
- › **Environmental Awareness:** the organic residues, the contaminated materials and disposable items must be properly eliminated according to the rules of the local law.
- › **Daily Cares:**
 - Replace the bottle water.
 - Daily cleaning of the venturi saliva ejector systems, vacuum pump and / or HVE hoses.
 - Cleaning of the debris collector, bowl and its finish.
 - Close water and compressed air records and turn off the equipment's power supply breaker after expedient.
 - Check the compressor before using the dental set.
 - Drain the compressor's moisture filter before using the dental set.

TROUBLESHOOTING TABLE - PART I

| | Problems | Tests | Causes | Solutions |
|---------------------------------|--|---|--|--|
| Chair | The chair does not carry out any commands | Check mains voltage | Off | Connect the mains |
| | | Check the mains voltage rating | Electric voltage selected in the transformer is not selected according to the rated mains voltage | select the electrical voltage of the transformer, according to the mains electrical voltage |
| | | Low mains voltage | Varying the input voltage in the equipment | Stabilize the mains voltage |
| | | There is no electrical voltage in the transformer | Blown fuse | Replace the fuse, compatible with the mains electrical current. |
| | | PC board does not light the LED indicators | There is no output voltage from the transformer to the board | Replacing the chair transformer |
| | | Check pedal switches | Poor contact in the control micro switch | Replace control switch |
| | | Measure Chair PC board input and output voltage | There is no output voltage from the PC board to the motors | Replacing the chair PC board |
| | | Measure pedal PC board input voltage | Pedal PC board does not send commands to chair's PC board | Replace the pedal PC board |
| Chair | Chair seat or backrest does not move | Check fuse | Broken fuse | Replace the fuse as specified for the gearmotor |
| | Burning seat or back fuse | Check the current of the motor | Electric current above the rated fuse current | Lubricate the geared motor spindle. If not, replace the part. |
| | | Check limit switch | When the motor reaches the limit switch, the limit switch is not activated | Troubleshoot poor contact between connectors and micro keys, align the micro key palette or replace a defective micro key. |
| Operating Light | Operanting light does not turn on the lamp | Check electrical contact of the switch | Poor contact of the micro switch | Reconnect electrical cable or replace micro switch if it is not closing contact. |
| | | Check PC board output voltage | There is no voltage at the operanting light output on the PC board | Replace the chair PC board |
| | | | Broken operanting light fuse | Check equipment wiring harness and replace the operanting light fuse on the board |
| | | Electric voltage of the PC board does not reach the operanting light head | Broken cable | Connect the electrical cable. |
| | | Check chair PC board tension selection mode | Chair PC board has the operanting light output in a mode that is not suitable with the operanting light voltage. | Select the operanting light output according to the head LED's rated voltage |
| Water Unit and Assistant Module | Cuspidor does not come out water | Check mains water valve | Closed water supply. | Open mains water record |
| | | Check mains water supply | Lack of water or air in the pipeline | Wait for water supply or remove air from the pipeline, releasing the flow. |
| | | Open the cuspidor water valve | Dirt in the sieve and solenoid valve tubing | Clean the solenoid valve sieve and tubing |
| | | Check electrical output voltage of the board | Electric voltage does not reach the solenoid coil of the valve | Reconnect electrical cables and establish rated electrical voltage to the solenoid valve |
| | | Check voltage and current of the solenoid switch | Burnt solenoid valve | Replace the valve solenoid |

TROUBLESHOOTING TABLE - PART II

| | Problems | Tests | Causes | Solutions |
|--|---|---|---|---|
| Water Unit and Assistant Module | Curing light does not work | Check transformer output voltage and cables | No electrical voltage reaches the curing light PC board | Reconnect electrical cable from light curing harness |
| | Curing light does not work, does not turn on the LED | Check input voltage on the curing PC board | Nominal electrical voltage arrives from the transformer, but does not turn on the light curing LED | Replace curing PC board |
| | Ejector doesn't work | Check compressor air pressure | Lack of air pressure from the compressor | Start the compressor, open the valve and establish the air flow |
| | | Check venturi ejector | Dirt in the ejector tip | Clean the suction air nozzle |
| | | Check instrument support valve | Locked valve plunger | Open the valve and repair the plunger |
| | Ejector does not close | Check instrument support valve | Valve does not close when the suction connector is attached to the holder | Adjust instrument support valve |
| | | Check instrument holder reed | Support vane broken. Does not close the air passage when the suction device is placed in the holder | Replace vane and adjust the suction support valve |
| | Ejector is weak or losing suction during use | Check ejector filter | Clogged filter | Clean the ejector filter |
| | | Check air pressure | Pressure below specification coming from the compressor | Adjust the air pressure of the compressor and chair filter |
| | | Check ejector sewer draining hose | Clogged hose | Clean sewer suction hose from ejector |
| | Ejector exiting air through the connector instead of suck | Check venturi ejector in the sewer connection box | Clogged sewer | Unclog sewer, clean ejector and connection box |
| | | Check venturi ejector in the sewer connection box | Sucker outlet hose bent or obstructed | Unfold and clean the venturi ejector hose |
| | Bicarbonate jet (prophylaxis) does not work | Check reservoir air pressure | No air pressure at the powder tank inlet | Adjust VRP2 air pressure |
| | | Check bicarbonate powder reservoir | Reservoir outlet clogged | Unclog bicarbonate output valve |
| | | Check triple hose | Hose clogged with baking powder | Unclog triple hose |
| | | Check instrument support valve | Support valve with plunger locked | Adjusting the instrument support valve plunger |
| | Bicarbonate jet (prophylaxis) working at the same time as another hand instrument | Check pedal valve | Pedal valve without air pressure | Replace progressive pedal valve plunger |
| | | Check instrument support valve | Instrument support valve does not close fully | Adjust instrument support valve |
| Bicarbonate jet (prophylaxis) leaving water after use | Check suction valve | Suction valve plunger takes a long time to return | Clean and lubricate rubber rings on the suction valve | |
| Vórtice suction does not work | Check chair's electrical tension | Chair on / off button off | Turn on / off button of the chair base | |
| | Check chair board input and output voltage | Chair PC board does not release the rated voltage for the Vórtice air solenoid valve | Replace the chair PC board or the timed Vórtice suction PC board if it is not the same model. | |
| | Check the air solenoid valve of the Vórtice system | Solenoid coil receives the nominal voltage from the PC board, but does not open the valve plunger | Replacing the Vórtice suction air solenoid valve | |
| Vórtice suction does not turn off, after placing in the holder | Check trigger button | On / off button has not been turned off | Step on the chair base button or joystick to turn the Vórtice system off | |

TROUBLESHOOTING TABLE - PART III

| | Problems | Tests | Causes | Solutions |
|---|---|---|---|--|
| Delivery Unit Platform | Flex arm does not lock the tray in the working position | Check air pressure of the equipment | Team without air pressure or with insufficient pressure | Start the compressor, open the regulator to regulate the air pressure of the equipment |
| | | Check flex arm brake | Air leak in the flex arm brake | Replace flex arm brake |
| | | Check the brake arm spring pressure | Low pressure on the flex arm brake spring | Adjust the brake arm spring pressure |
| | | Check the (capacitive) touch sensor | Capacitive sensor sending direct electrical voltage to the sensor solenoid valve | Replacing the (capacitive) touch sensor |
| | Flex arm brake touch sensor does not trigger | Check the touch sensor solenoid valve | Touch sensor valve is not closing the air flow | Replacing the touch sensor solenoid valve |
| | | Check input voltage on the touch (capacitive) sensor PC board | The rated voltage does not reach the touch (capacitive) sensor board | Connect electrical cable and establish the nominal electrical voltage of the PC board. |
| | | Check equipment electrical ground | Poor sizing or lack of grounding in the electrical network | Resize or install the electrical ground in the Equipment outlet / connector |
| | Equipment does not respond to commands from the Touch Panel | Check touch (capacitive) sensor PC board | Touch (capacitive) sensor does not respond when receiving electrical voltage | Replacing the (capacitive) touch sensor |
| | | Check electrical harness contacts | Touch PC board does not receive electrical voltage from the chair PC board | Reconnect cables and establish electrical voltage from the chair PC board to the touch |
| | Equipo operating Light and tray do not stop at work positions | Check working table touch PC board or assistant module | Chair PC board does not receive commands from the Touch PC board. | Replace the touch PC board of the chair or assistant module |
| Check the leveling of the equipment structure | | operating Light arm column and Equipo are out of level in the vertical position | Tighten the fixing screws of the Equipo to the chair to level the structure | |
| Working Table | Air leakage through the Equipo water tank cover | Check tank cap rubber ring | Tank cover rubber ring is worn, causing air leak | Replace O'ring on the delivery unit water tank cap |
| | | Check tank cap connection | Connection with broken weld | Replacing the Water Tank Cover Connection |
| | Scaler does not work | Check mains voltage | Mains voltage is not connected or is below 10% nominal | Establish electrical voltage from the mains to the equipment |
| | | Check electrical supply voltage of the board | Electrical voltage below the nominal scaler PC board or poor electrical contact | Establish rated electrical voltage to the scaler board, check connectors and reconnect electrical cables |
| | | Check electropneumatic valve | Electropneumatic valve is not operating. | Check and restore sufficient air pressure to activate the valve and / or check whether the valve closes the electrical contact. Replace valve. |
| | | Check scaler PC board | Scaler board receives the nominal voltage from the transformer, but no electrical voltage is output to the transducer (pen) | Replace the PC board's fuse. And when there is no fuse, replace the scaler PC board |
| | | Check scaler hose | Electric scaler hose cable is broken | Replace the scaler hose |
| | | Check scaler instrument holder NC switch | Switch is locked does not release electrical control when the pen is removed from the holder | Unlock the button or replace the scaler holder microswitch |
| | | Check scaler transducer (pen) | Nominal electrical voltage reaches the transducer, but the insert (tip) does not vibrate | Check that the insert is firmly attached to the transducer. If the problem persists, replace the transducer. |
| | | Check scaler potentiometer | No voltage reaches the scaler transducer | Replace scaler potentiometer |

TROUBLESHOOTING TABLE - PART IV

| | | Problems | Tests | Causes | Solutions |
|---------------|-----------------------------------|--|--|---|---|
| Working Table | Weak scaler | | Check electrical voltage of the scaler PC board | Electrical voltage is below the nominal | Replacing the scaler PC board |
| | | | Check potentiometer | Potentiometer does not select the power for that insert model (tip) | Replace scaler potentiometer |
| | | | Check scaler tip | Insert (tip) was not threaded until the end of the transducer shaft thread | Use the torque wrench to thread the insert on the scaler transducer (pen) shaft |
| | | | Check scaler tip | Internal thread of the insert (tip) is not compatible with the external thread of the scaler transducer (pen) scaler insert is worn | Replace the insert (tip), using the compatible model the thread of the scaler transducer Replace the scaler insert (tip) |
| | Scaler does not come out of water | | Check scaler water valve | Scaler water valve closed or dirty obstructing the water outlet | Open the scaler water valve and do internal cleaning |
| | | | Check the scaler PC board | The scaler PC board is not receiving rated voltage from the transformer Scaler PC board does not release rated voltage to the solenoid valve | Repair electrical connection between transformer and scaler PC board Replacing the scaler PC board |
| | | | Check scaler water solenoid valve | Scaler solenoid valve receives nominal voltage from the PC board, but does not open the plunger of the water valve | Replacing the scaler water solenoid valve |
| | Electric micromotor does not work | | Check the equipment's electrical input network | Mains disconnected or destabilized | Turn on equipment or stabilize power grid |
| | | | Check micromotor rotation switch | Inverter switch (FWD / REV) is in the OFF position | Select the key for the desired rotation FWD or REV |
| | | | Check air pressure of the electropneumatic valve | No air pressure or insufficient pressure in the electropneumatic valve | Adjust air pressure in the electropneumatic valve |
| | | Check electropneumatic valve switch | No electrical voltage arrives in the electropneumatic valve micro switch | Reconnect cables and establish rated voltage in the electropneumatic micro switch | |
| | | Check electric micromotor PC board | Nominal voltage does not reach the electric micromotor board The board receives electrical voltage but does not send to the electric micromotor | Connecting cables and establishing nominal input voltage on the electric micromotor board Replacing the electric micromotor PC board | |
| | | Check micromotor rotation switch | Inverter switch (FWD / OFF / REV) with poor contact | Replacing the electric micromotor inverter switch | |
| | | Check electric micromotor potentiometer | Potentiometer with poor contact | Replace electric micromotor potentiometer | |
| | | Check micromotor cable | Electrical cable with bad contact or broken | Repair or replace the electric micromotor cable | |
| | | Check electric micromotor | Micromotor rotor (handpiece) is locked | Replace electric micromotor | |
| | | Check contra-angle or straight handpiece | Contra-angle with the cartridge locked or straight handpiece with the drive shaft locked Contra-angle or straight handpiece with crushed turbine head | Repair or replace contra-angle cartridge or transmission shaft of straight handpiece Repair or replace contra-angle or straight handpiece | |

TROUBLESHOOTING TABLE - PART V

| Problems | Tests | Causes | Solutions |
|--|---|--|--|
| Weak electric micromotor, low speed or failing | Check the electrical voltage of the micromotor PC board | Electric voltage is below the nominal for the micromotor operation | Establish rated electrical voltage of the equipment |
| | Check air pressure of the electropneumatic valve | Lack or low air pressure in the electropneumatic valve | Adjust air pressure in the electropneumatic valve |
| | Check electric micromotor potentiometer | Potentiometer is set to minimum power | Adjust the potentiometer to the desired RPM speed |
| | | Selector switch power variation failure | Replacing the micromotor power adjustment switch |
| Thermo Comfort does not heat the syringe water | Check electrical voltage in the water heater | Nominal electrical voltage does not reach the heater | Reconnect cable and establish the rated electrical voltage of Thermo Comfort |
| | Check water heater lamp (Boiler) | Boiler halogen lamp is burned out | Replacing the water tank lamp |
| | Check on / off switch | Switch off | Turn on heater switch |
| Low and high speed pneumatic turbines are weak | Check compressed air compressor | Compressor off | Check the sizing and condition of the compressor power supply circuit breaker. Turn on the circuit breaker. |
| | | Insufficient pressure at the compressor outlet | Adjust the outlet pressure of the compressor air filter |
| | | Starting the engine with dynamic pressure below the minimum recommended in the equipment user manual | Adjust the pressure switch to start the compressor motor with dynamic pressure reaching 5.5 bar (80 psi) |
| | | Compressor with low power and displacement below the recommended for the type of equipment | The compressor must have a minimum displacement of 150 l / min. |
| | | Inadequate compressed air piping the distance between the equipment and the compressor | The air tubing must have the diameter according to the measures specified in the equipment user manual. |
| Check air filter | Air filter near the equipment has a static pressure below 5.5 bar (80 psi) | Adjust the air filter to 5.5 bar (80 psi) next to the equipment | |
| | Check the pressure regulating valve (VRP1) | The regulating valve (VRP1) has low pressure | Adjust the valve (VRP1) so that the dynamic working pressure of the low speed is 2.4 bar (35 psi) using the gauge on the turbine |
| | | Valve (VRP1) does not regulate | Replacing the air reduction valve seal |
| | Check the pressure regulating valve (VRP1) and air choke for the high speed turbine | The regulating valve (VRP1) has low pressure and a choke with little air flow | Set the working pressure of the handpieces. |
| | Check adjustment of the valves of the instrument holder | Valves on the instrument supports are out of order | Adjust the valves so that the vanes close the air of the instruments when they are in the supports |
| Check the air propulsion pedal | Progressive pedal valve losing pressure or low air flow | Replacing the progressive pedal valve | |

Working Table

TROUBLESHOOTING TABLE - PART VI

| | Problems | Tests | Causes | Solutions |
|--|---|--|--|---|
| Working Table | Lack of water spray on the turbines | Check compressor | Low air pressure at the filter outlet | Adjust the air filter to the rated working pressure |
| | | Check equipment air valve | Closed tank air valve | Open the air valve to pressurize the water tank |
| | | Check the Equipo air pressure regulating valves | Low air pressure in the tank | Adjust the Equipo's VRP1 valve and the high-speed turbine air choke with the pressure gauge. Then the tank VRP2 and the spray choke |
| | | Check triple tap | Triple tap with closed water valve | Open the triple tap water valve |
| | | Check turbine (pen) | Turbine (pen) with the spray outlet clogged | Unclog outlets of turbine water spray (pen) |
| | Instruments on the stand start when the propulsion pedal is depressed or when using another handpiece | Check instruments holder valves on the delivery system | Support valves or microswitches do not close completely when they are with the instruments | Adjust the valves of the instrument holders so that the vanes close the valves fully when they are with the handpieces |
| | Turbine drips after use or when in the tip holder (Cross) | Check the water suction valve | The internal plunger of the water suction valve is locking | Open the water suction valve and lubricate the sealing rings. If not, replace the valve |
| | Syringe does not come out air and water | Check compressor air pressure | Compressor air flow interrupted | Establish air flow by turning on the compressor or adjusting the filter. |
| | | Check air pressure of the equipment | Air valve of the water tank is closed | Open the water tank air valve |
| | Syringe locking air and water buttons | Check 3-way syringe | 3-way syringe head with stroke marks / dented | Rectify the button fittings, if not resolved, replace the 3-way syringe |
| | | | Lack of lubrication on the buttons | Lubricate the 3-way syringe buttons, if not resolved, replace the syringe |
| | Syringe leaving water when pressing the air button | Check compressed air compressor | Water in the compressor air tank | Drain the reservoir, replace or replace the air filter. If the compressor is too far from the equipment, place a filter on the chair. |
| | Leakage of water through the fitting of the 3-way syringe tip | Check the 3-way syringe | Clearance in the metal ring of the syringe tip | Tighten the metallic ring on the tip of the 3-way syringe |
| | | | The base of the 3-way syringe tip is broken | Replacing the 3-way syringe tip |
| | Brushless electronic micromotor will not start | Check electrical network | Mains disconnected or with voltage below that specified for the equipment | Connect or stabilize the equipment's electrical network |
| | | Check fuse and electrical voltage of the base of the chair | Blown chair base fuse | Replace fuse according to the mains voltage. Test electrical harness |
| Brushless electronic micromotor will not start | Check equipment harness | Nominal electrical voltage of the transformer does not reach the electronic micromotor PC board | Retighten connectors and establish nominal electrical voltage between the transformer and the electronic micromotor PC board | |
| | Check equipment air pressure | Compressor off or low air pressure in the Equipo, not activating the electronic micromotor PC board sensor | Switch on the compressor and regulate the air pressure of the equipment | |
| | Check instrument support valve | Delivery system air does not reach the electronic micromotor PC board pressure sensor | Check the air pressure of the Delivery System, reduction valve (VRP1), pedal valve and instrument holder | |

TROUBLESHOOTING TABLE - PART VII

| | Problems | Tests | Causes | Solutions | |
|---------------|--|---|--|--|---|
| Working Table | Brushless electronic micromotor failing the turbine or turning the drill | Check electronic micromotor PC board | Electronic PC board does not release rated voltage to the micromotor (handpiece) | Replacing the electronic micromotor PC board | |
| | | Check the selection mode of the electronic micromotor control panel | The selection mode is not suitable for the contra-angle in use | Select the working mode and RPM for the contra-angle in use 1: 1, 1: 5 or 20: 1 on the control panel | |
| | | Check contra-angle | Contra-angle with hit / hit mark on the turbine head | Rectify the part, if not resolved, replace the contra-angle | |
| | Brushless electronic micromotor does not come out of water | Check electrical voltage of the electronic micromotor PC board | Low nominal voltage from the electronic PC board output to the micromotor | Replacing the electronic micromotor PC board | |
| | | Check reservoir and air valve of the delivery system | Tank air valve is closed | Open air valve of the delivery system tank | |
| | Brushless electronic micromotor heating the contra-angle head | Check water record of electronic micromotor | Dirt inside the water register of the electronic micromotor | Open the water register of the micromotor and perform cleaning | |
| | | Check the selection mode of the electronic micromotor control panel | The selection mode is not suitable for the contra-angle in use | Select the working mode and RPM for the contra-angle in use 1: 1, 1: 5 or 20: 1 on the control panel | |
| | ChronoLub system remains beeping continuously | Check ChronoLub PC board programming | Check contra-angle | Lack of lubrication of the drive shaft and cartridge | Lubricate the contra-angle after each service |
| | | | ChronoLub system has not been rebooted (RESET / ESC button) after instrument lubrication | After lubricating the pen, press the RESET / ESC button on the ChronoLub panel | |

| Revisions Program - Chair and Delivery Unit - Part I | 180d | 360d | 540d | 720d | 900d |
|--|------|------|------|------|------|
| CHAIR | | | | | |
| Checking of all movements | ✓ | ✓ | ✓ | ✓ | ✓ |
| Headrest checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Armrest checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Checking the valve and pedal handle | ✓ | ✓ | ✓ | ✓ | ✓ |
| Articulation axes lubrication | ✓ | | ✓ | | ✓ |
| Electrical motor/ spindle drive lubrication | | ✓ | | ✓ | ✓ |
| WATER UNIT / ASSISTANTE MODULE | | | | | |
| Articulation axes verification / lubrication | ✓ | ✓ | ✓ | ✓ | ✓ |
| Castors checking (Kart) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Handpieces pressure checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| O´rings coupling for handpieces checking and lubrication | ✓ | ✓ | ✓ | ✓ | ✓ |
| Micropilot valve of the handpiece holder checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Electric-pneumatic valves cheaning and lubrication | ✓ | ✓ | ✓ | ✓ | ✓ |
| Instrument Articulators (Cross) Checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Touch Commands Checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Disassembles and lubrication the syringe buttons | | ✓ | | ✓ | ✓ |
| Handpieces' Hoses Checking | | ✓ | | ✓ | ✓ |
| Wear out of Scaler Tips control | | ✓ | | ✓ | ✓ |
| Flex Arm movements and Brake checking | | ✓ | | ✓ | ✓ |
| X-ray viewer activation button checking | | ✓ | | ✓ | ✓ |
| Checking the prophylaxis reservoir lid ring | | ✓ | | ✓ | ✓ |
| Checking the prophylaxis hose | ✓ | | ✓ | | ✓ |
| Checking the trim of the prophylaxis pen | | ✓ | | ✓ | ✓ |
| OPERATING LIGHT | | | | | |
| Verification of joint movements | ✓ | ✓ | ✓ | ✓ | ✓ |
| Verification of available intensities | ✓ | ✓ | ✓ | ✓ | ✓ |
| Focus check | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lamp / LED Rating | | ✓ | | ✓ | ✓ |
| Screen / mirror check | | | ✓ | | ✓ |

| Revisions Program - Chair and Delivery Unit - Part II | 180d | 360d | 540d | 720d | 900d |
|--|------|------|------|------|------|
| WATER UNIT / ASSISTANTE MODULE | | | | | |
| Movements checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Suction 250 to 300 mm/hg checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lubrication of the saliva ejector´s filter O´rings | ✓ | ✓ | ✓ | ✓ | ✓ |
| Disassembles, cleaing and lubricating of the bowl O´ring | ✓ | ✓ | ✓ | ✓ | ✓ |
| Strainer Checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Blade for instruments holder checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Articulation Lubrication | ✓ | ✓ | ✓ | ✓ | ✓ |
| Prophylaxis' Hose checking | ✓ | | ✓ | | ✓ |
| Disassemble and lubricating the syringe buttons | | ✓ | | ✓ | ✓ |
| Checking of guarnition for prophylaxis' instrument | | ✓ | | ✓ | ✓ |
| Prophylaxis' System Reservoir O´ring checking | | ✓ | | ✓ | ✓ |
| Air vaccum tubes checking | | ✓ | | ✓ | ✓ |
| STOOL | | | | | |
| Castors checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Checking the piston and movements | ✓ | ✓ | ✓ | ✓ | ✓ |
| CURING LIGHT | | | | | |
| Verification of intensity and operating programs | ✓ | ✓ | ✓ | ✓ | ✓ |
| Checking tip and support ring | ✓ | | ✓ | | ✓ |
| JUNCTION BOX | | | | | |
| Air, Water and Vacuum hose checking | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sewer Connector Checking and Cleaning | ✓ | ✓ | ✓ | ✓ | ✓ |

| Features - Chair | |
|--|--|
| Electrical | |
| Power supply | 118, 127, 220 and 230 VAC; The voltage must be selected at installation. Note: All equipment leaves the factory set to 220VAC. |
| Number of phases | Single phase |
| Frequency | 50/60 Hz |
| Power | 124,2 VA |
| Maximum Equipment Voltage | 24V |
| Chair and Equipment Fuses | Fast Acting Fuses |
| - F1 Chair | 1.5A to 220VAC / 230VAC 3A to 118VAC / 127VAC |
| - F2 Connection Box | 10A |
| PC Board Fuses | |
| - F1 and F2 | 3,5A Delayed Fuse |
| - F3 Operating Light | 3,15A Fast Acting Fuse |
| Mechanical | |
| Protection type against electric shock | Class I equipment according to IEC 60601-1-1 and IEC 60601-1-2 |
| Protection Degree | Type B |
| Operation mode | Intermittent |
| Protection against harmful water penetration | IPX0 |
| Transformer thermal protection | Aperture at 130°C ±3% |
| Lifting capacity | According to ISO 6875 - 135 Kg |
| Water tank capacity | 1000ml |
| Operation light's intensities | 8.000 to 30.000 Lux; |
| Seat height in relation to the floor | Minimum 44 cm; Maximum 72cm |
| Gross weight | 260Kg |
| Storage temperatures | -30°C to 45°C |
| Working temperatures | 2°C to 45°C |
| Mechanical Structure | Laminated steel strip SAE 1020 |
| Welding | MIG |
| Painting | Electrostatic Painting with Polyurethane |
| Plastic Covers | High Impact Pigmented Polystyrene |
| Painting of other plastic parts | ABS, PP, Polyacetal and TPE |

Features - Accessories

Connections

| | |
|------------------|---|
| Electric | Flexible tube ¾" |
| Pneumatic | Flexible tube ¾" |
| Sewer connection | DN 40mm |
| Water tubing | Welding ø 25mm rigid PVC tube with the L/R 25 x ½" terminal |

Curing Light

| | |
|----------------|--|
| Power supply | 24VAC - 50Hz/60Hz |
| Power | 8W |
| Operation mode | Continuous, ramp and pulsed |
| Light power | Fiber optics probe (tip) 1000-1200 mW/cm ² |
| Wave length | 420-480 nm |
| Timer | 20 seconds |

Scaler

| | |
|--------------|-------------------|
| Power supply | 24VAC - 50Hz/60Hz |
| Frequency | 28kHz ±3kHz |
| Power | 3 to 20 W |

Electrical Micromotor

| | |
|--------------|-------------------|
| Power supply | 24VAC - 50Hz/60Hz |
| RPM | 0-35.000 RPM |
| Max. Power | 60W |
| Torque | 270g-cm |

Brushless Micromotor

| | |
|---------------------|----------------------------|
| Light's intensities | 25.000Lux |
| | 20:1: -- 100-2.500 RPM |
| RPM | 1:1: -- 2.000-40.000 RPM |
| | 1:5: -- 10.000-200.000 RPM |
| Max. Power | 120W |
| Torque | ~3,5Ncm |

Fiber Optics

| | |
|--------------|-------------------|
| Power supply | 24VAC - 50Hz/60Hz |
| LED Voltage | 3,3VCC |
| LED power | 2W |

X-Ray

| | |
|--------------|-------------------|
| Power supply | 24VAC - 50Hz/60Hz |
| Power | 4W |

Thermo Comfort

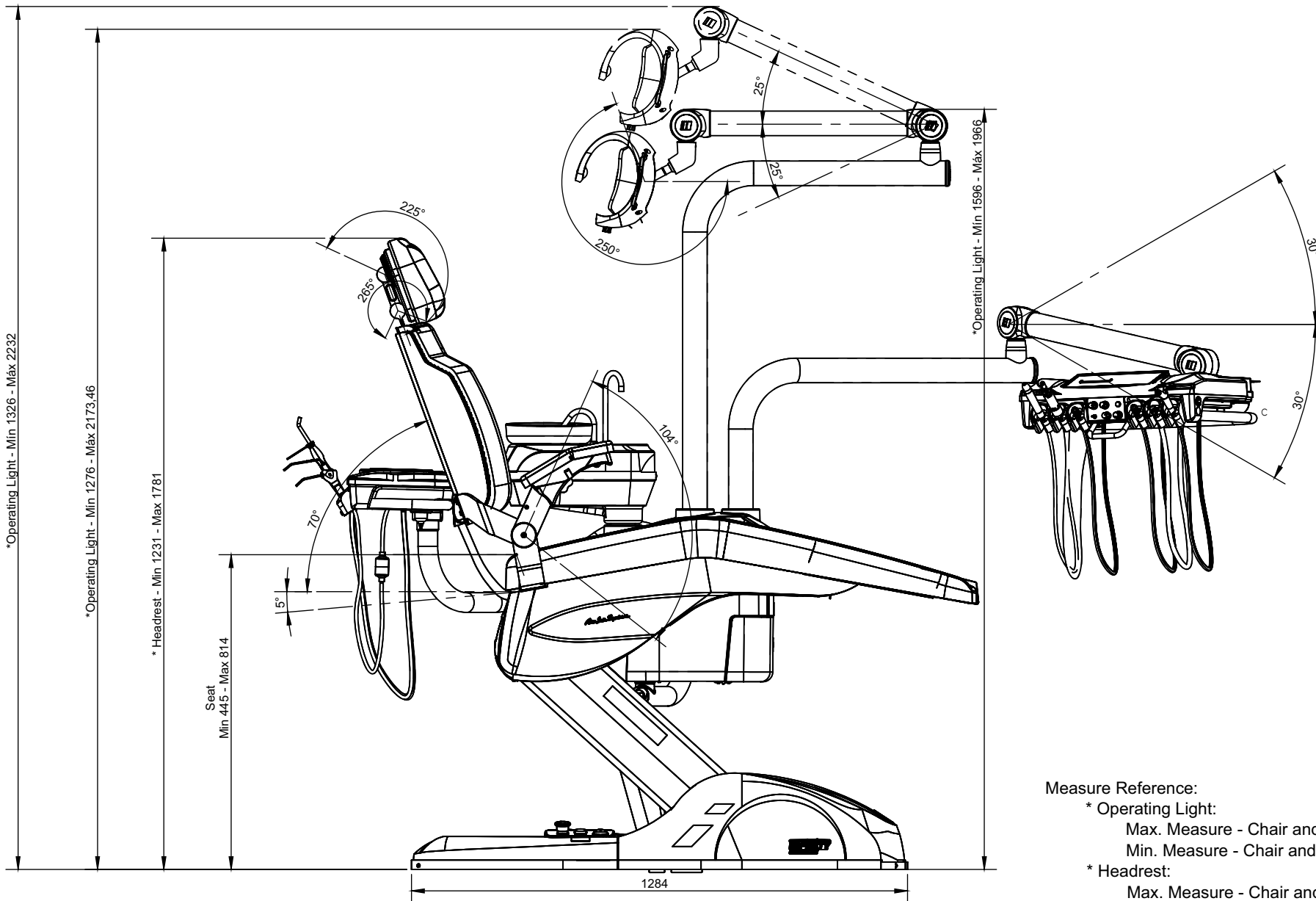
| | |
|--------------|-------------------|
| Power supply | 24VAC - 50Hz/60Hz |
| Power | 4W |

Anti-Stress

| | |
|--------------|-------|
| Power supply | 24VCC |
| Power | 15W |

INFINITY - SIDE VIEW

Measurements in millimeters



Measure Reference:

* Operating Light:

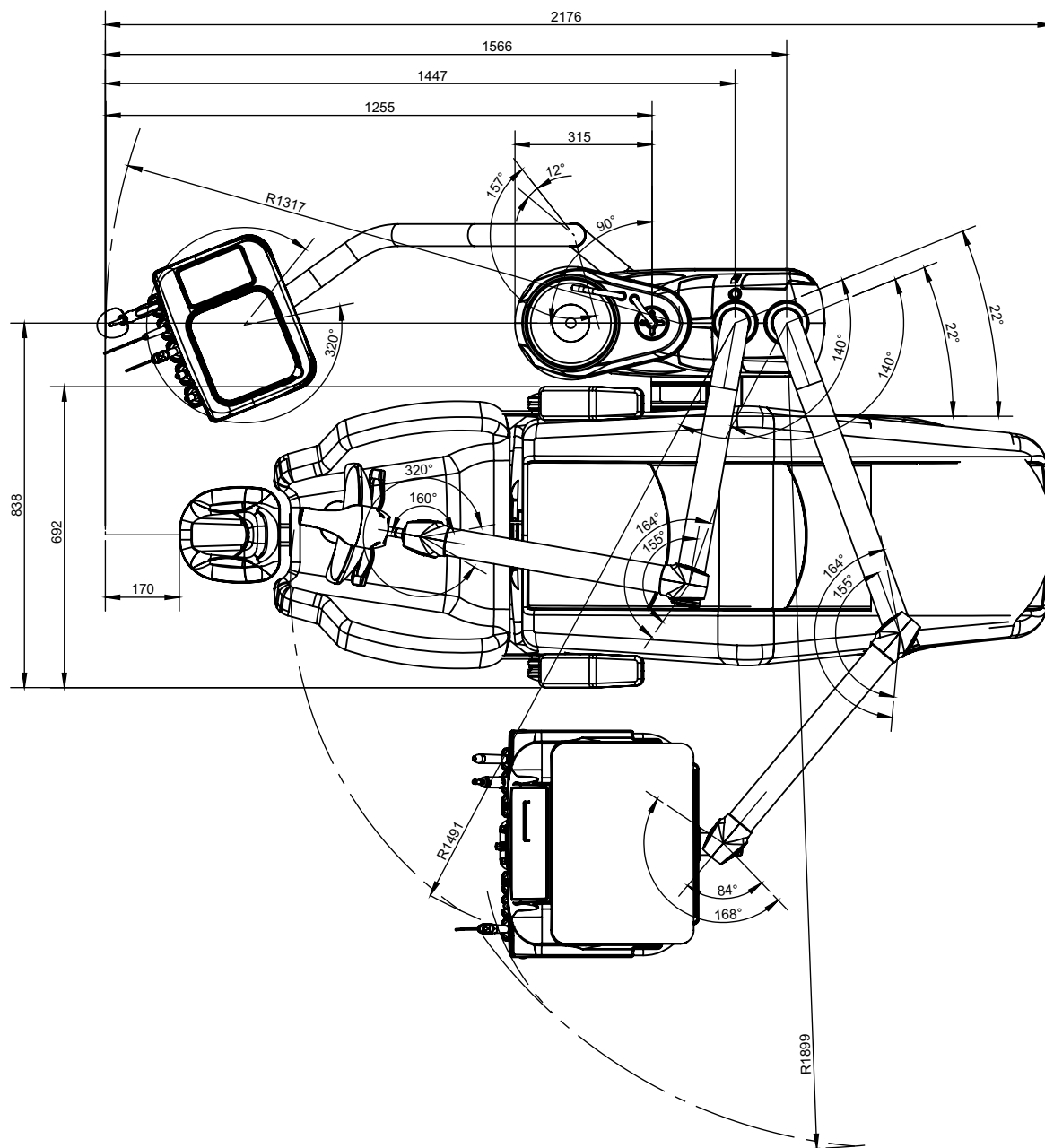
Max. Measure - Chair and Operating Light at Max.;
 Min. Measure - Chair and Operating Light at Min.;

* Headrest:

Max. Measure - Chair and Headrest at Max.;
 Min. Measure - Chair and Headrest at Min..

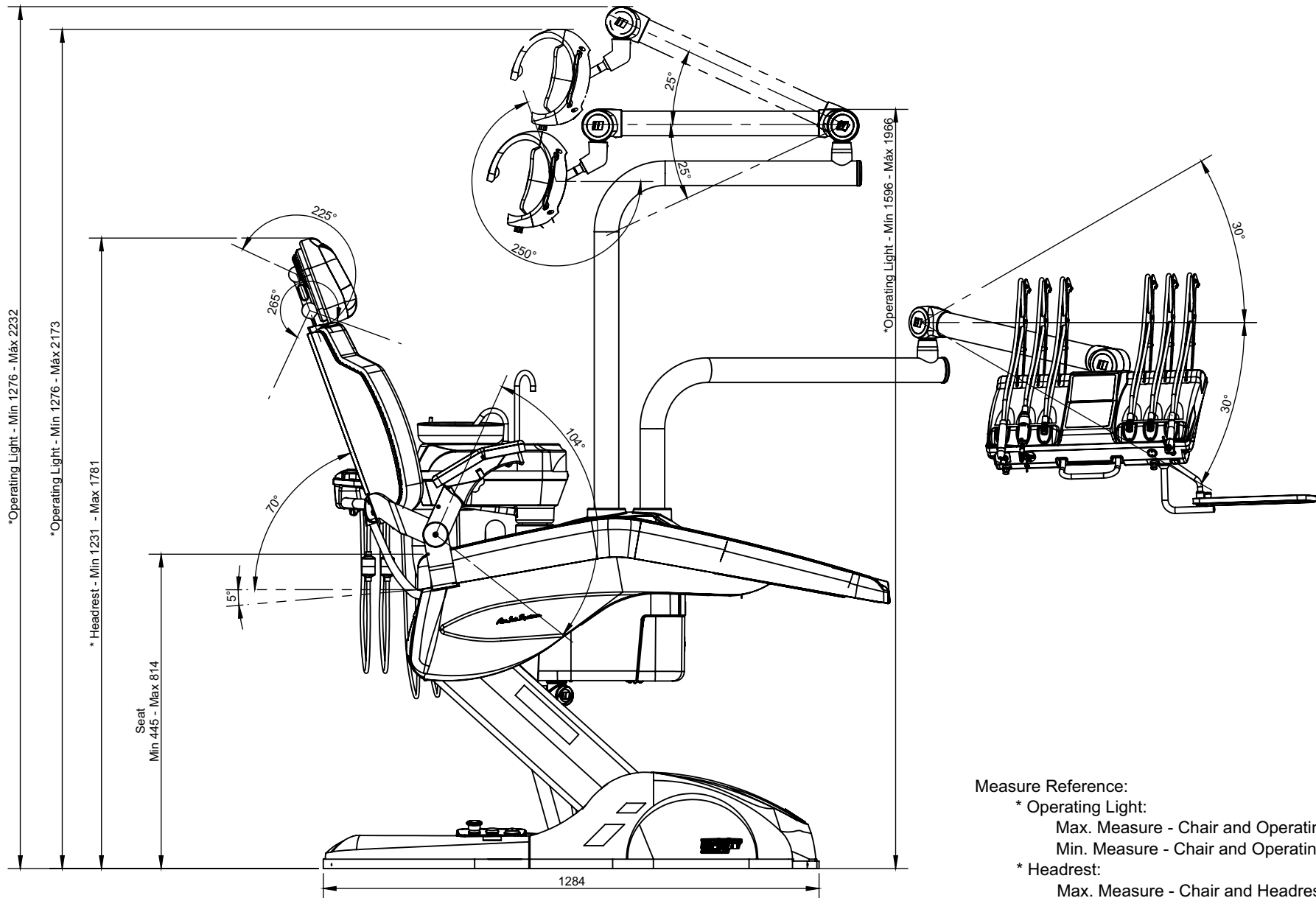
INFINITY - UPPER VIEW

Measurements in millimeters



INFINITY CROSS FLEX - SIDE VIEW

Measurements in millimeters



Measure Reference:

* Operating Light:

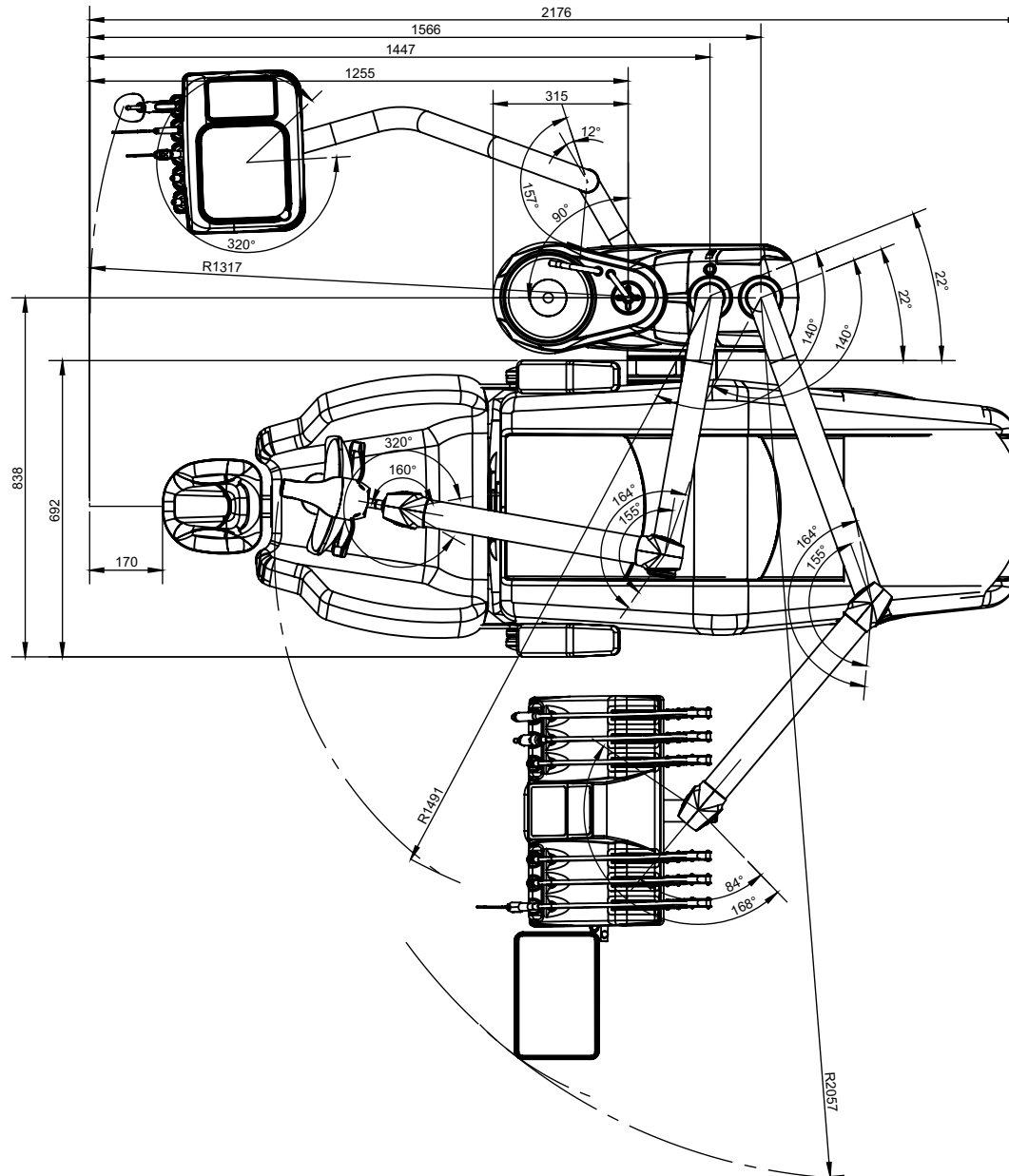
Max. Measure - Chair and Operating Light at Max.;
Min. Measure - Chair and Operating Light at Min.;

* Headrest:

Max. Measure - Chair and Headrest at Max.;
Min. Measure - Chair and Headrest at Min..

INFINITY CROSS FLEX - UPPER VIEW

Measurements in millimeters



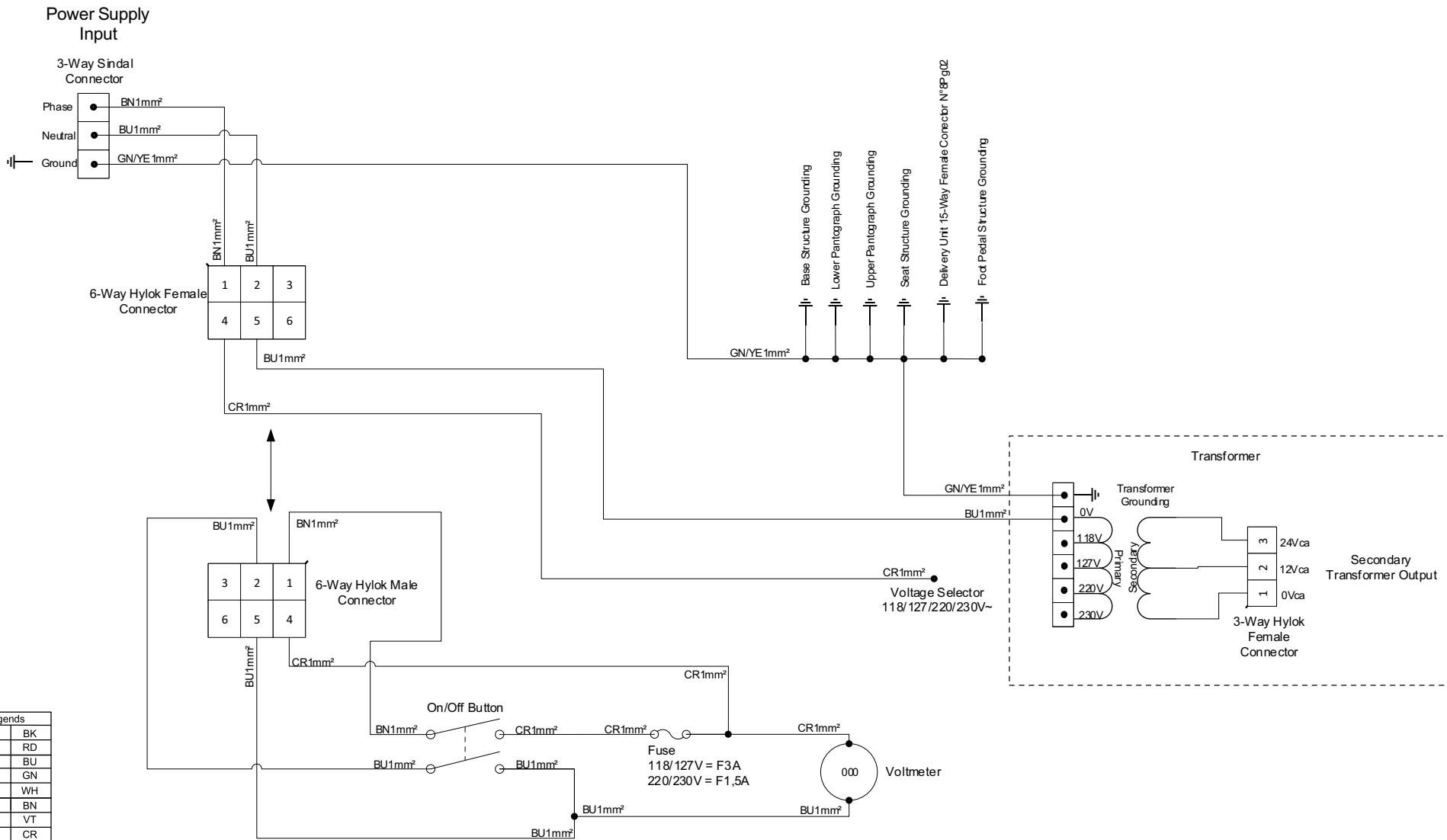
START OF ATTACHMENT SECTION

› 5401152 - Infinity 20 Electrical Diagram

| | |
|---|----|
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| Connection of CPU Board and Motors | 57 |
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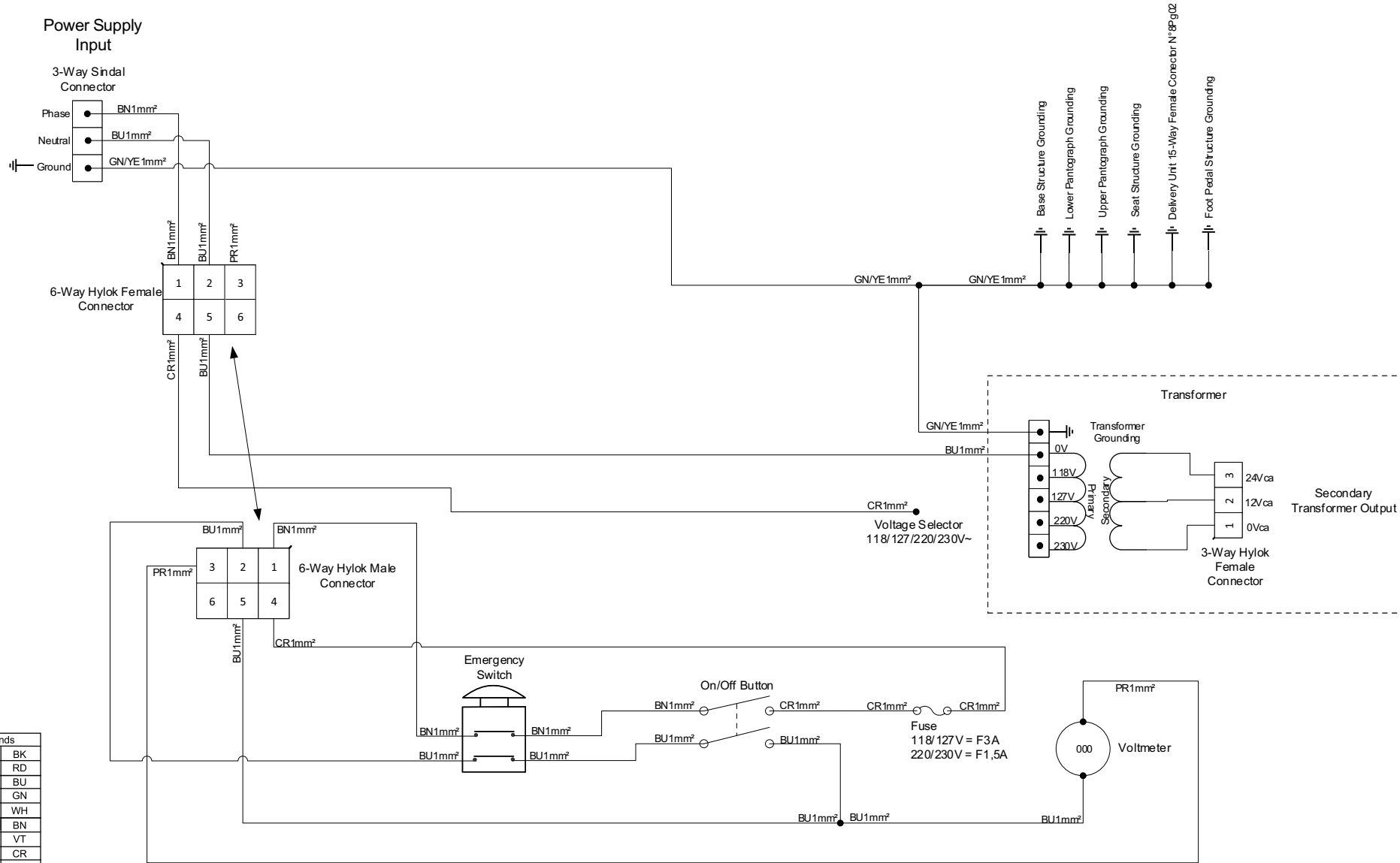
› 5406088 - Hydropneumatic Diagram Dental Line

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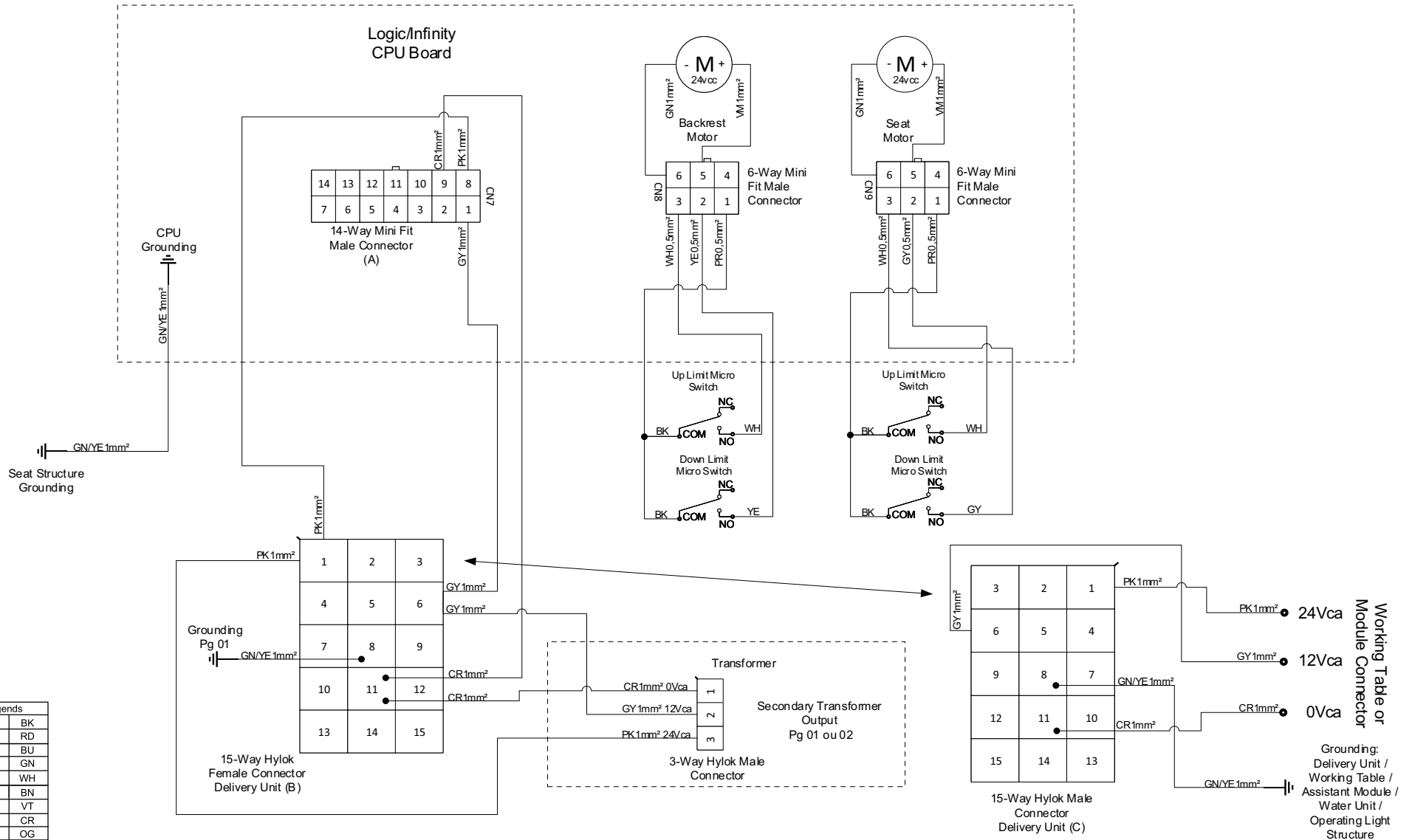
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| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Chair
Electrical part + Grounding



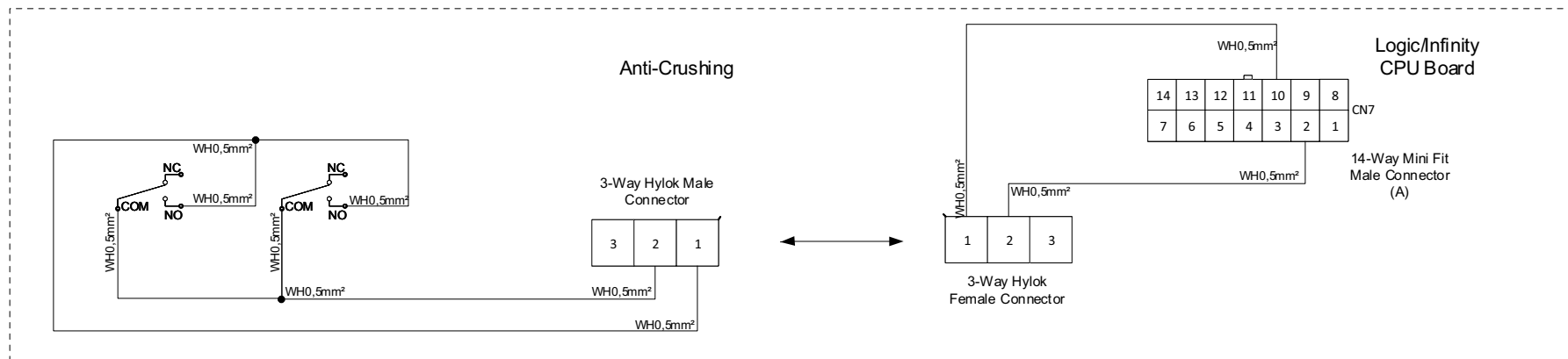
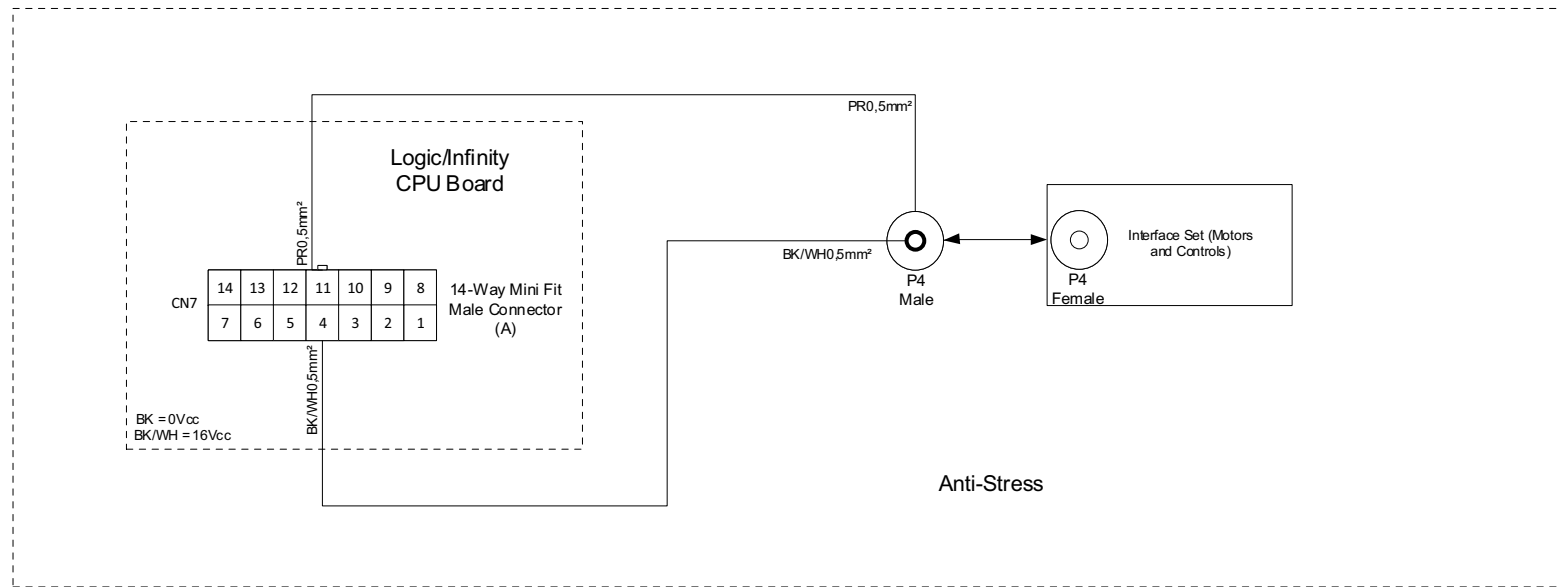
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| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Chair
- Electrical part + Grounding + Emergency Switch + Monitoring System



| Color Legends | |
|---------------|-------|
| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
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| Red/White | RD/WH |

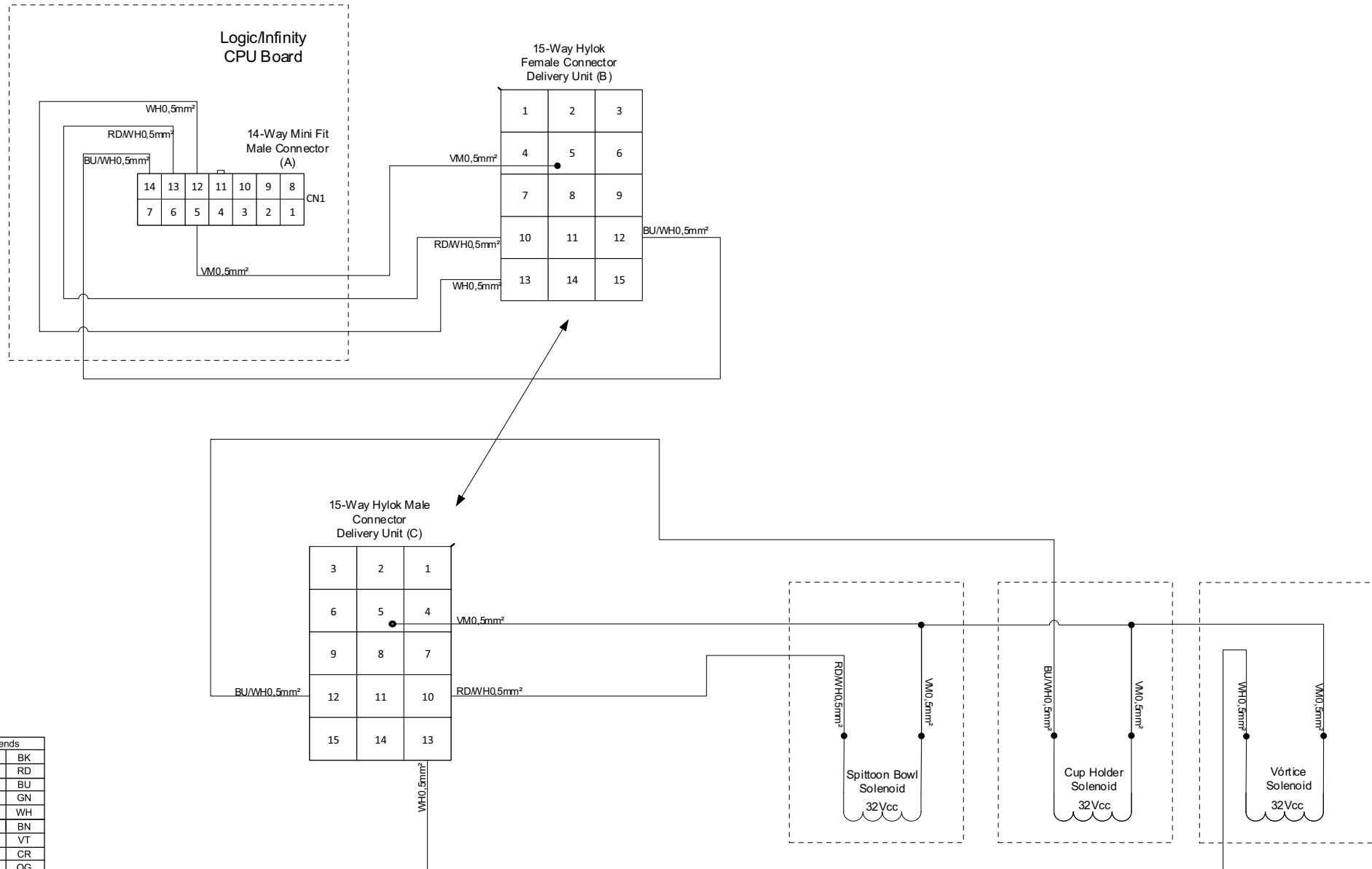
CPU Board and Motors Connection
Optional according to the equipment configuration grid.



| Color Legends | |
|---------------|-------|
| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
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| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

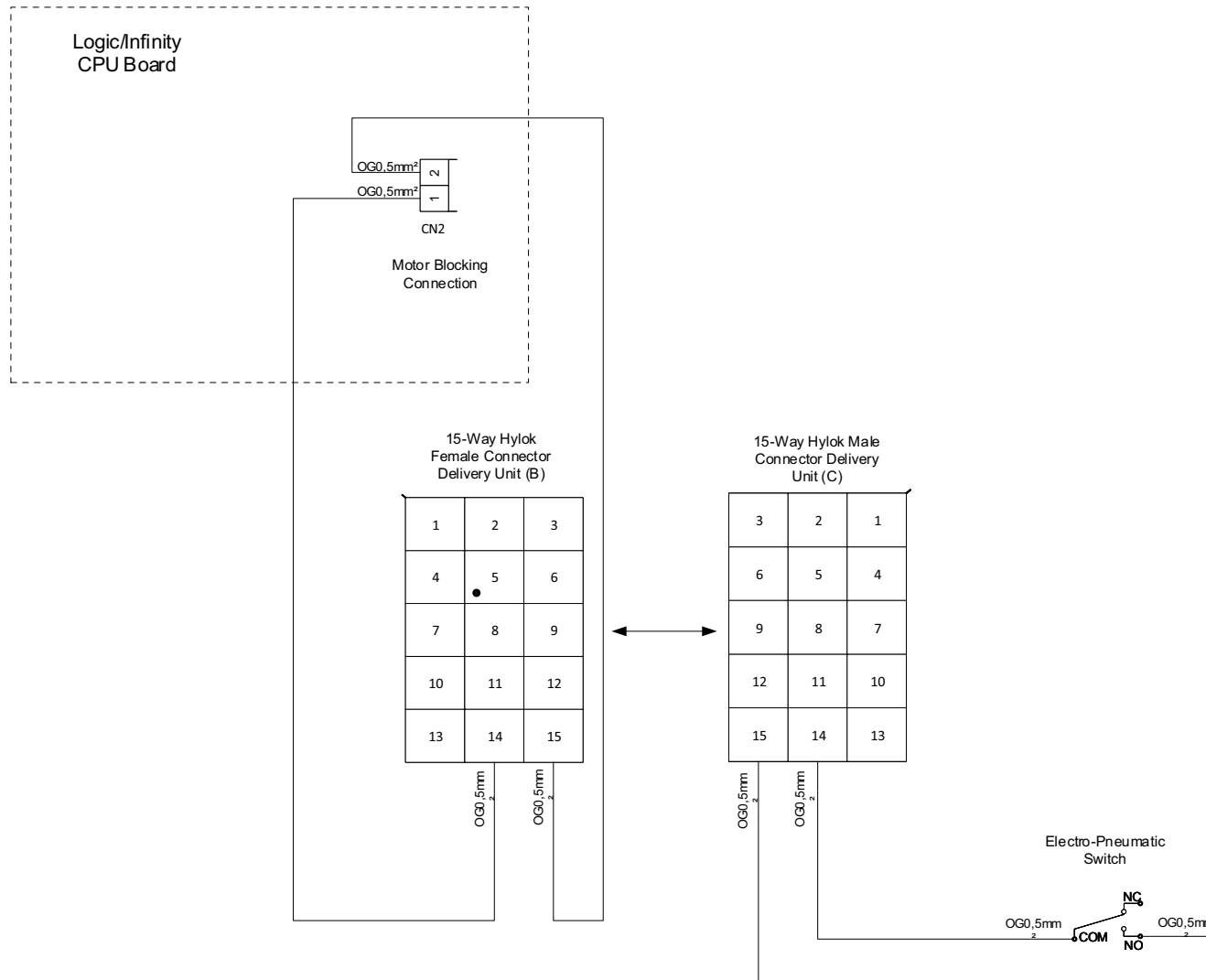
Anti-stress and Anti-Crushing Connection

Optional according to the equipment configuration grid.



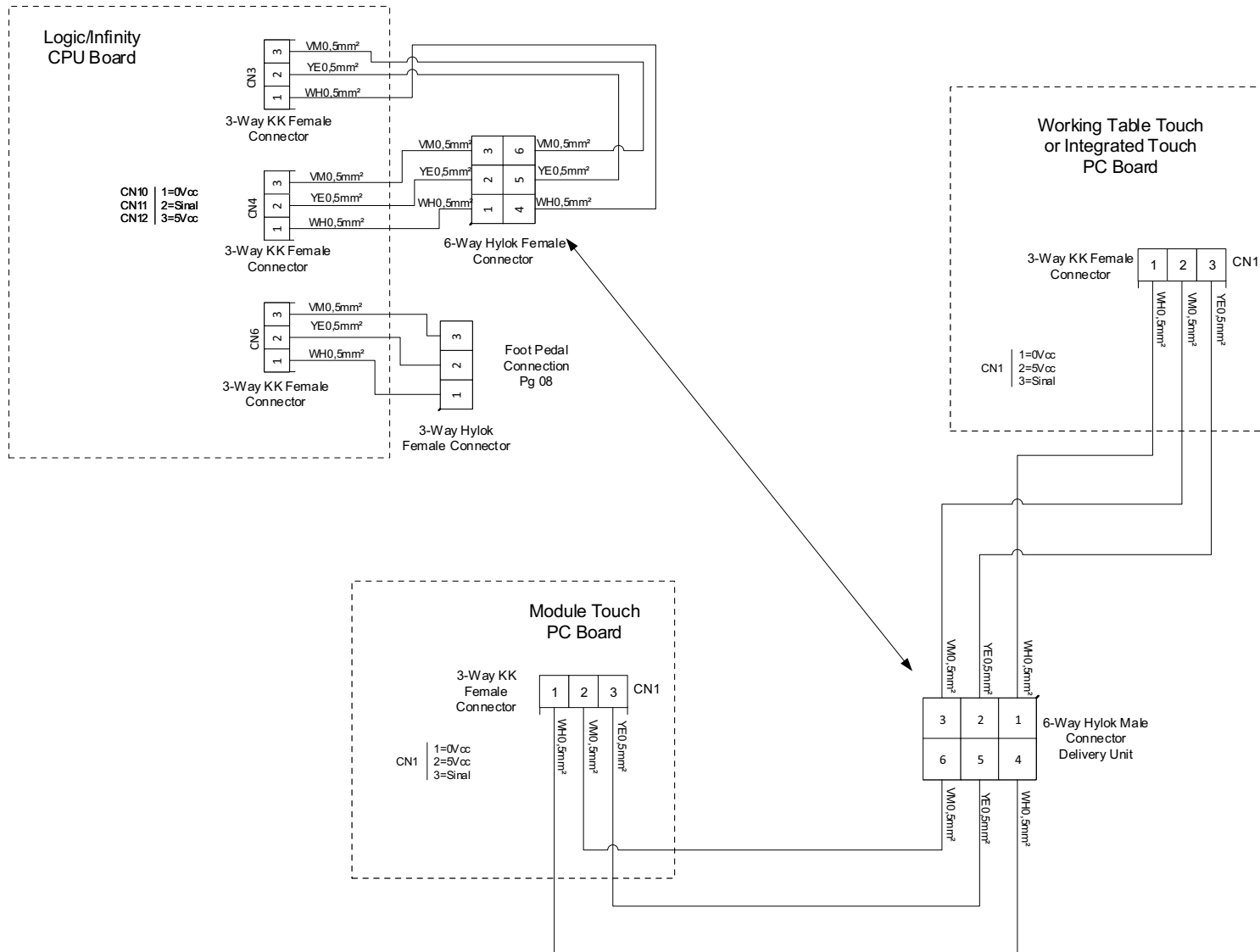
| Color Legends | |
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| Black | BK |
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| Blue | BU |
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| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Solenoid Spittoon Bowl, Cup Holder and Vórtice Connection
Optional according to the equipment configuration grid.



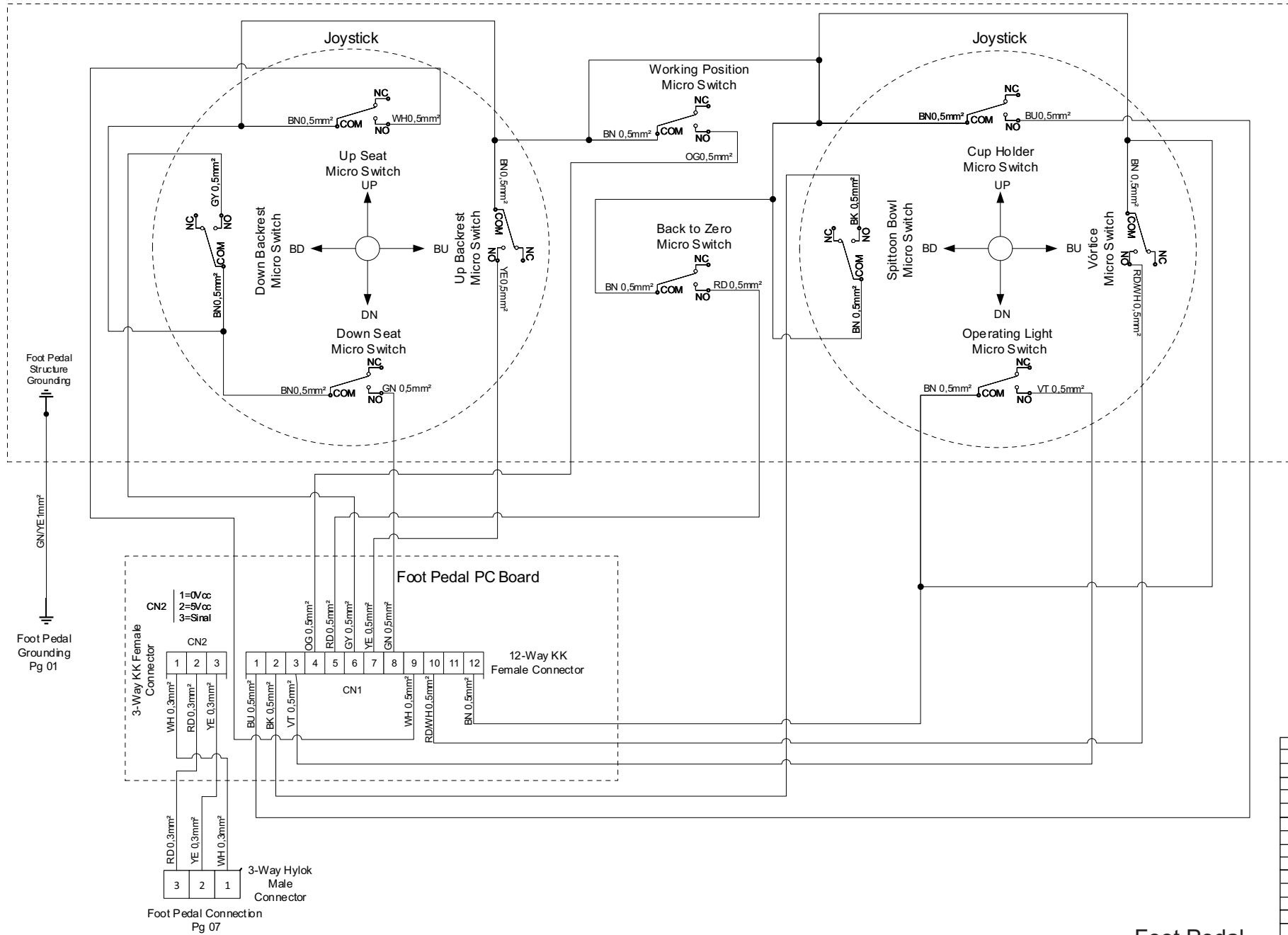
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| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Motor Blocking System Connected to CPU Board
Optional according to the equipment configuration grid.

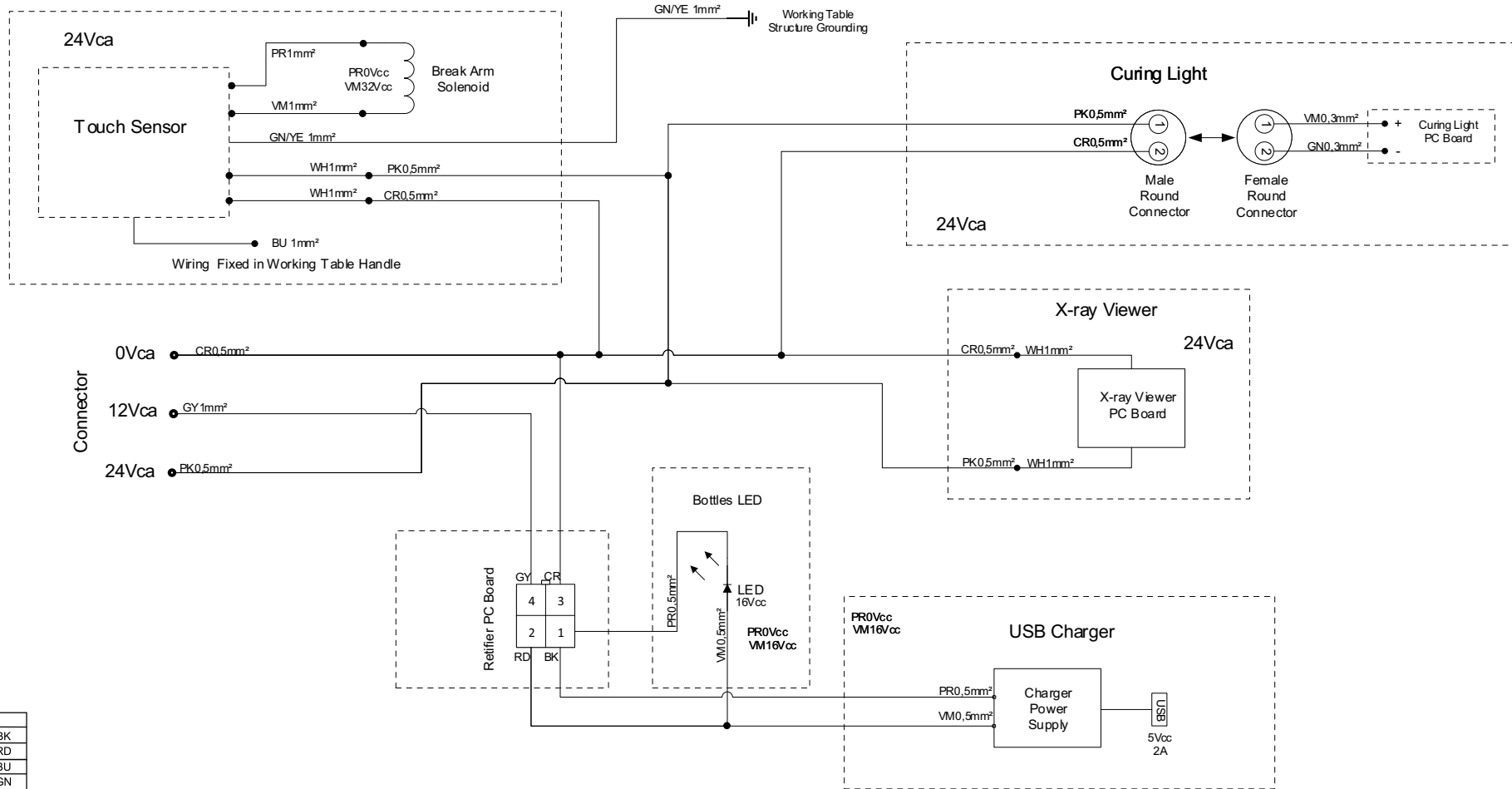


| Color Legends | |
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| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Touch Connection
Optional according to the equipment configuration grid.

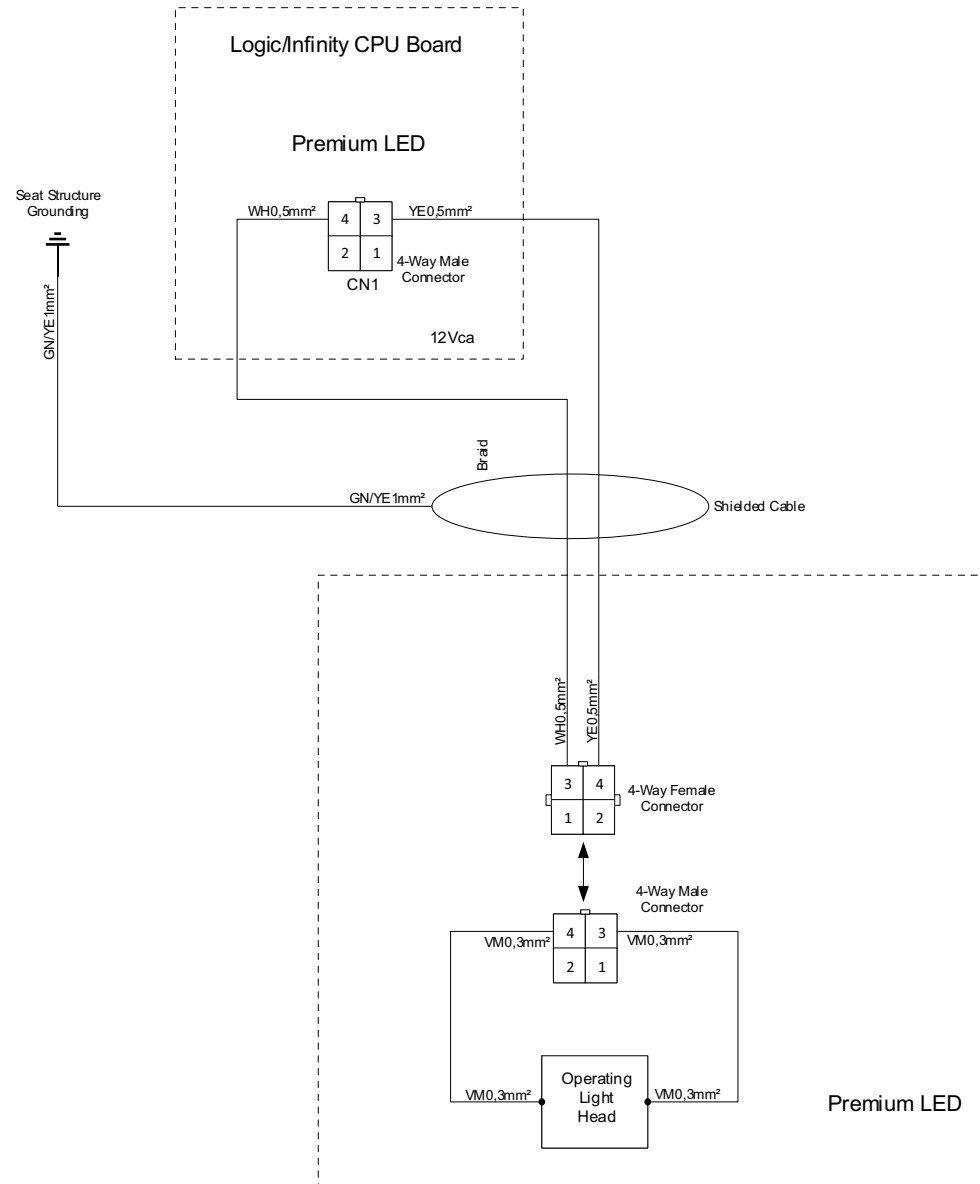


Foot Pedal



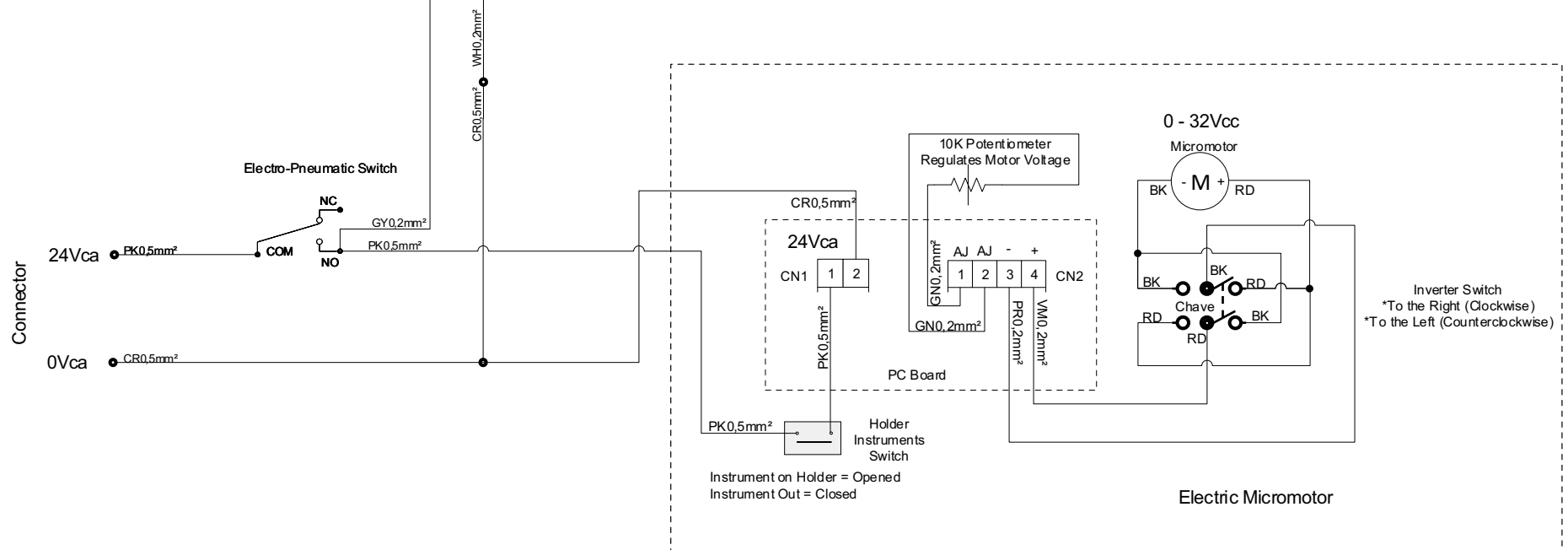
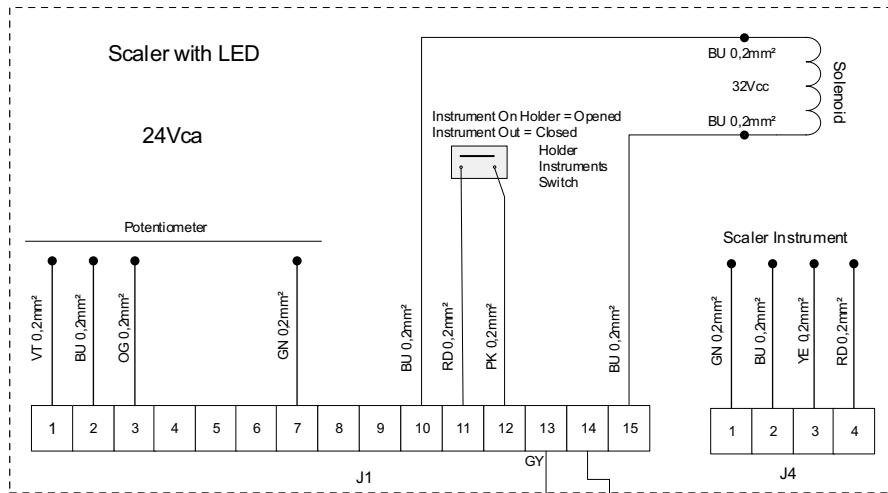
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|---------------|-------|
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| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Touch Sensor, Curing Light, X-ray Viewer, Bottles LED and USB Charger Connection
Optional according to the equipment configuration grid.



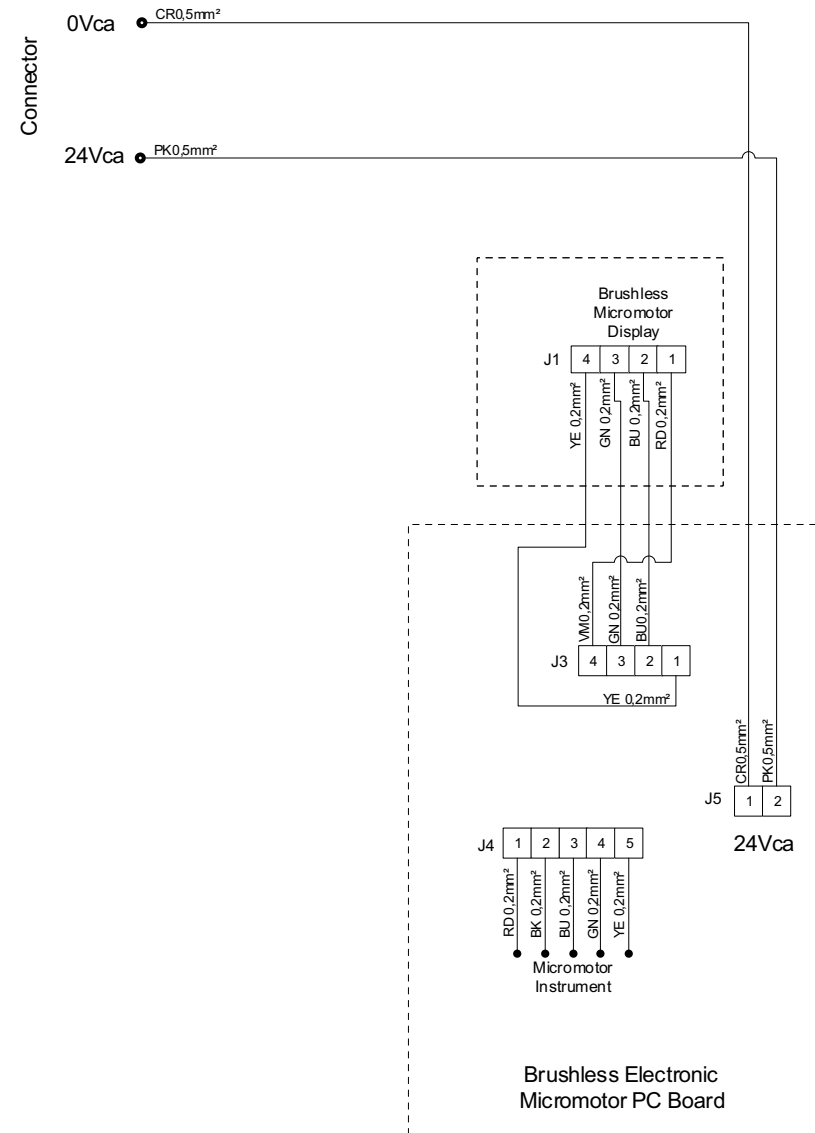
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| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Operating Light Connection
Optional according to the equipment configuration grid.



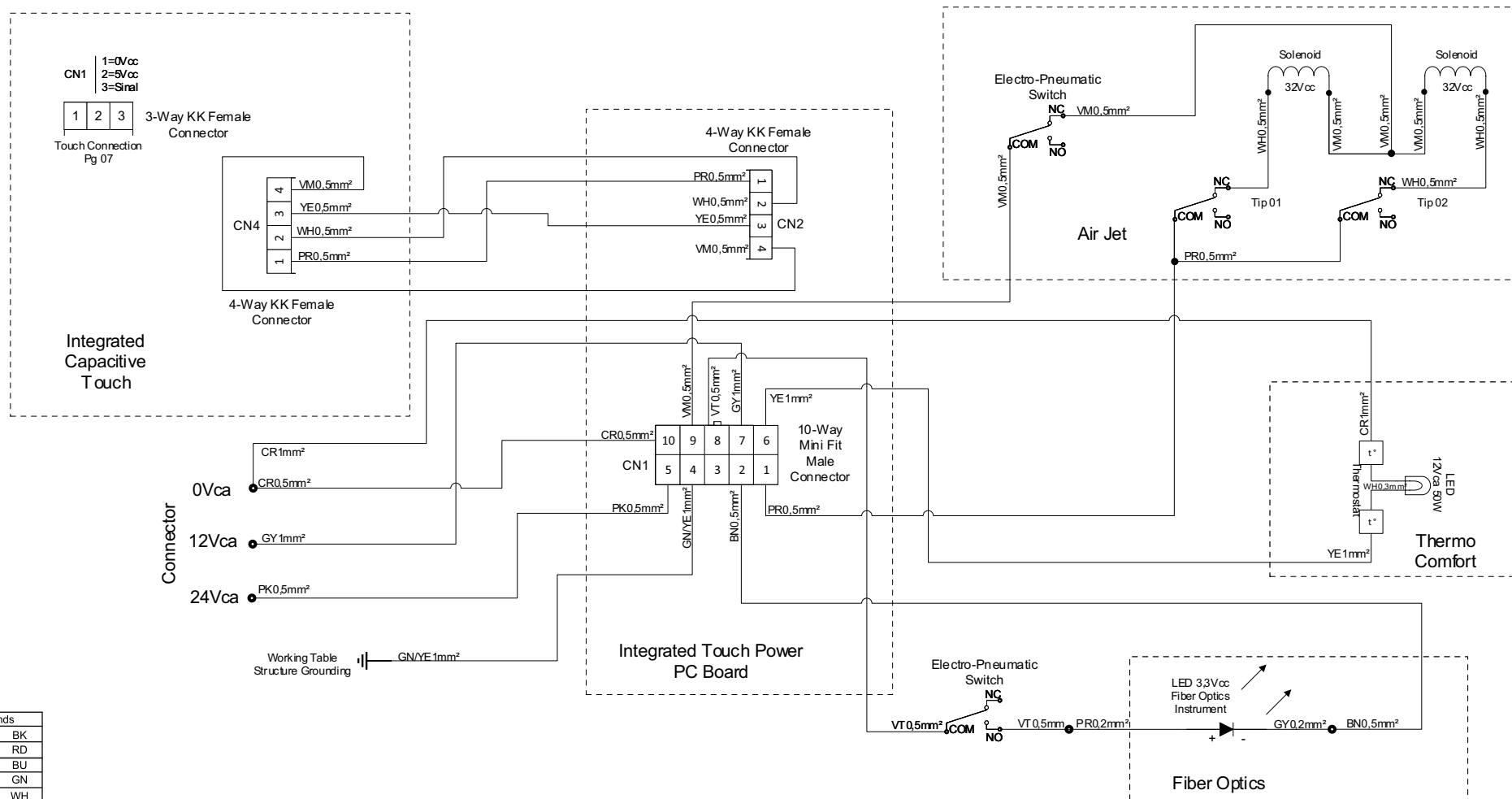
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| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Electric Micromotor and Scaler Connection
Optional according to the equipment configuration grid.



| Color Legends | |
|---------------|-------|
| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

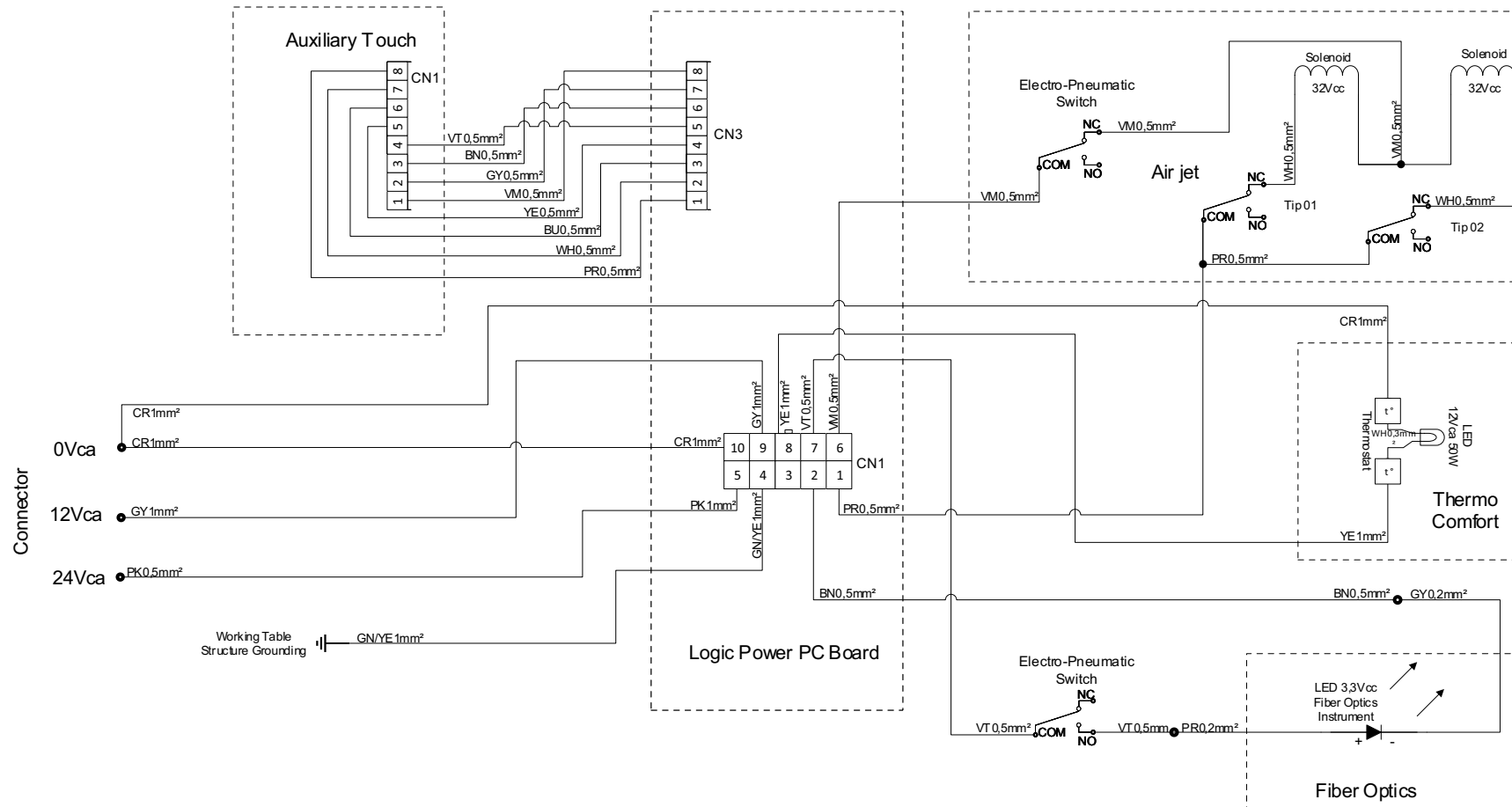
Brushless Micromotor Connection
Optional according to the equipment configuration grid.



| Color Legends | |
|---------------|-------|
| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

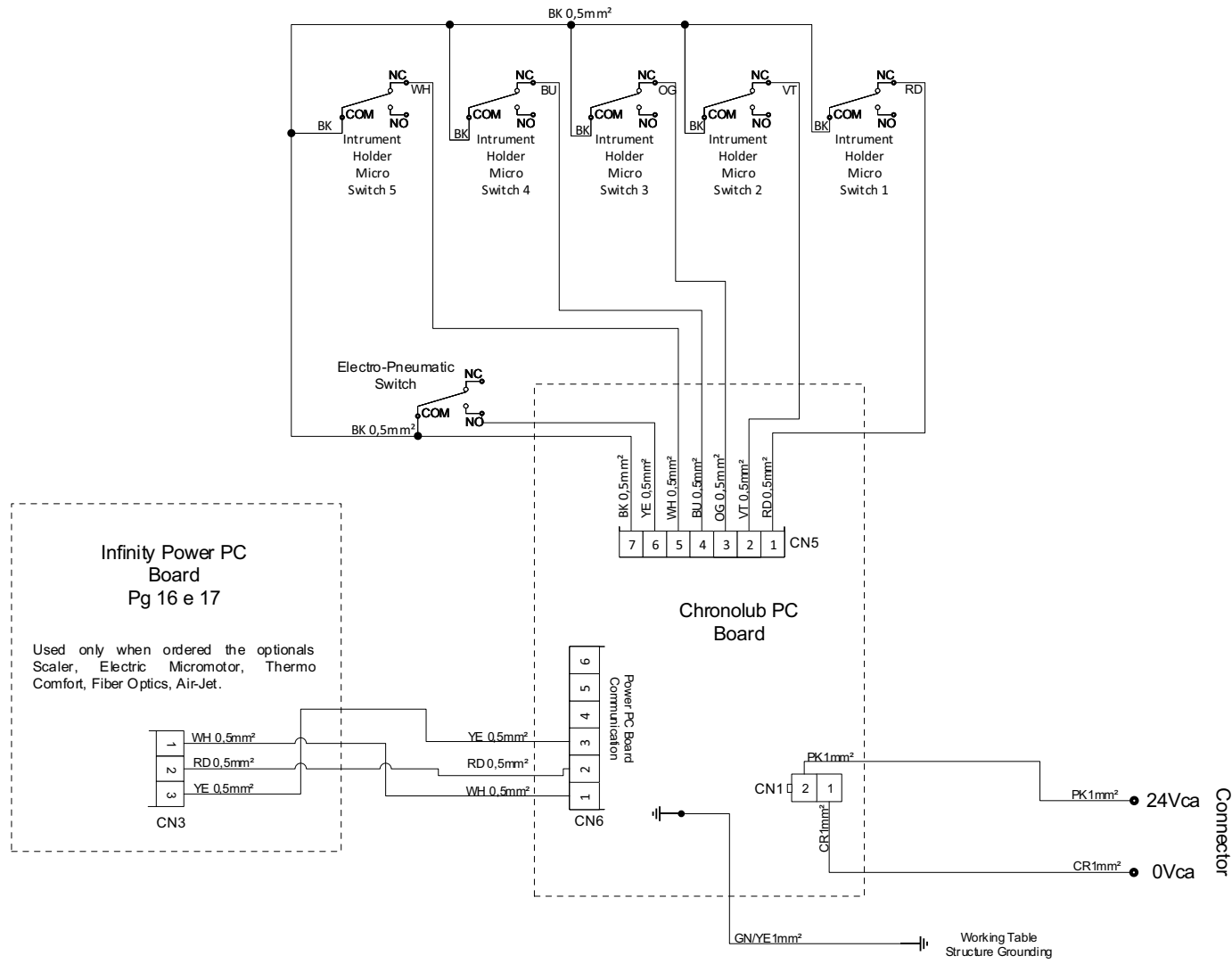
Air-jet, Fiber Optics, Thermo Comfort and Integrated Capacitive Touch Connection

Optional according to the equipment configuration grid.



| Color Legends | |
|---------------|-------|
| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Air-jet, Fiber Optics, Thermo Comfort and Auxiliary Capacitive Touch Connection
Optional according to the equipment configuration grid.



Infinity Power PC Board
Pg 16 e 17

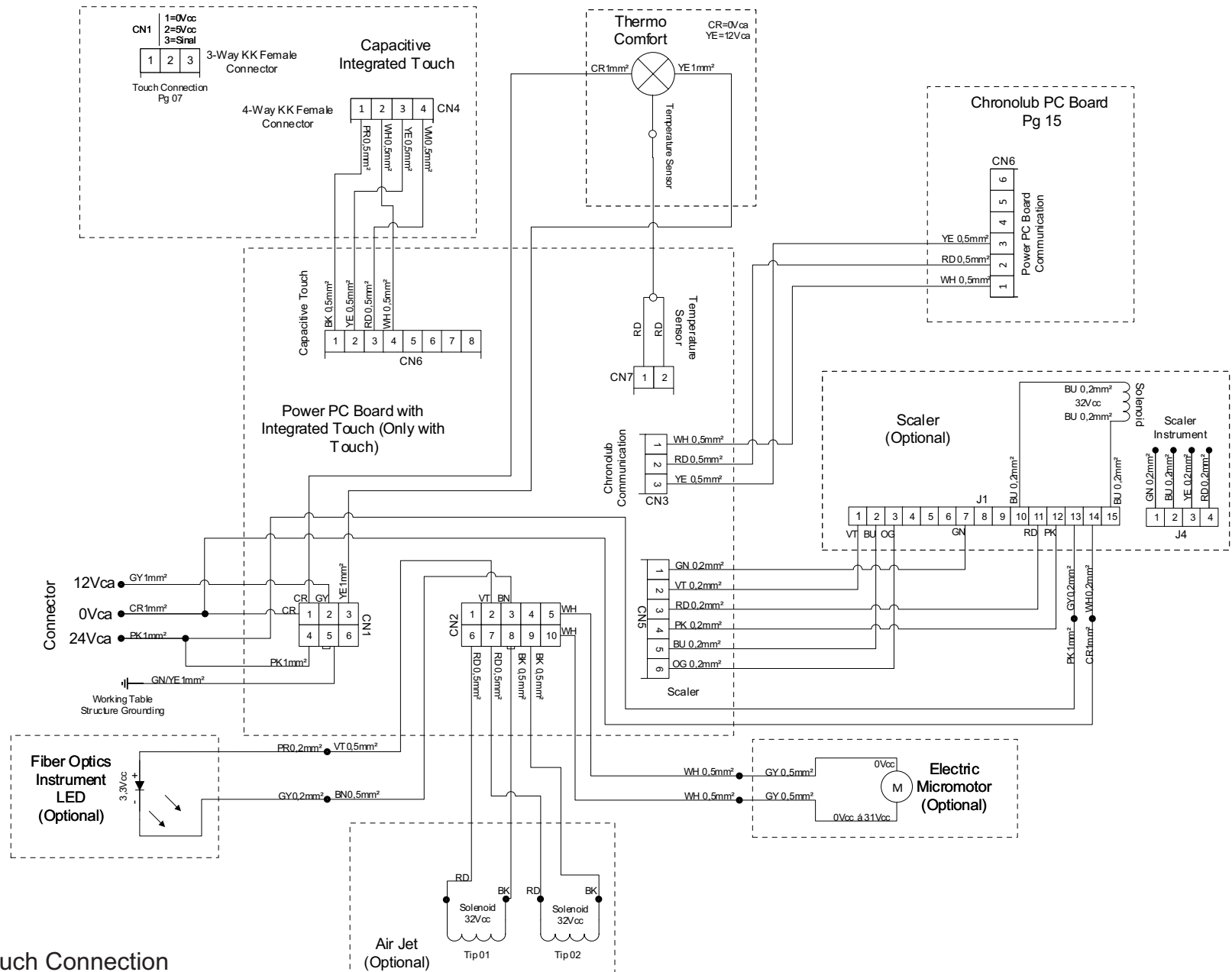
Used only when ordered the optionals
Scaler, Electric Micromotor, Thermo
Comfort, Fiber Optics, Air-Jet.

Chronolub PC Board

| Color Legends | |
|---------------|-------|
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| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Chronolub Connection

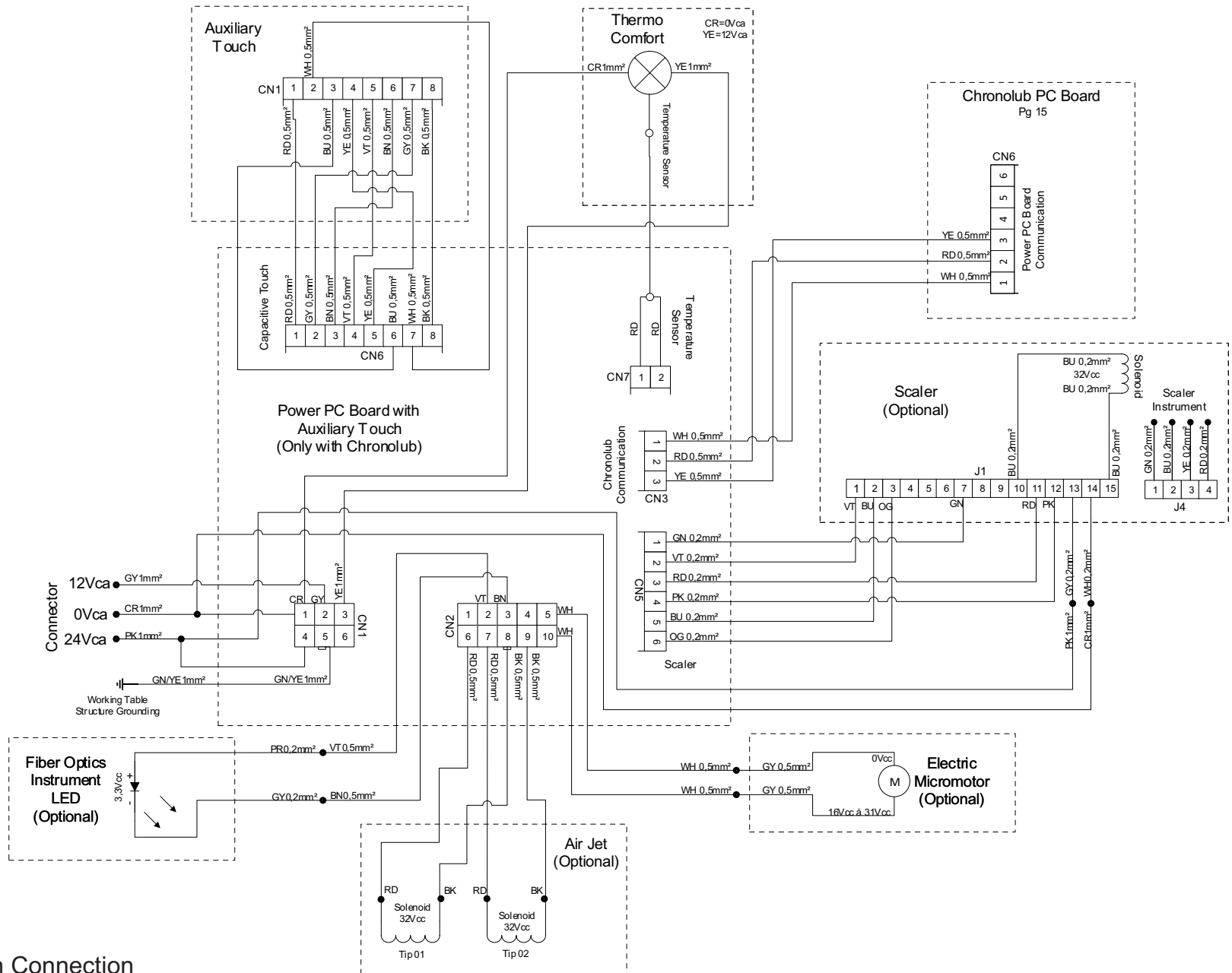
Optional according to the equipment configuration grid.



| Color Legends | |
|---------------|-------|
| Black | BK |
| Red | RD |
| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Chronolub and Integrated Touch Connection

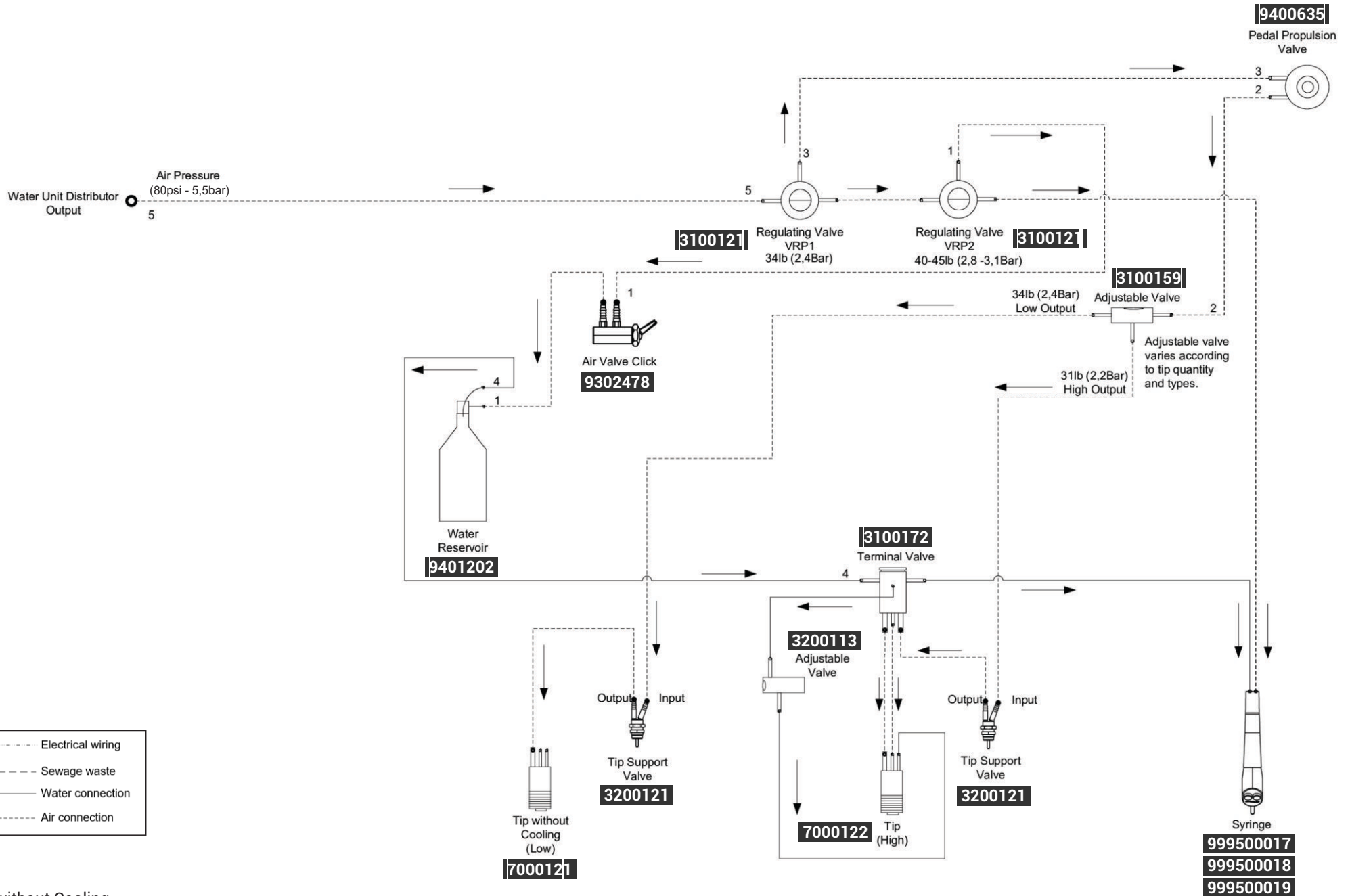
Optional according to the equipment configuration grid.



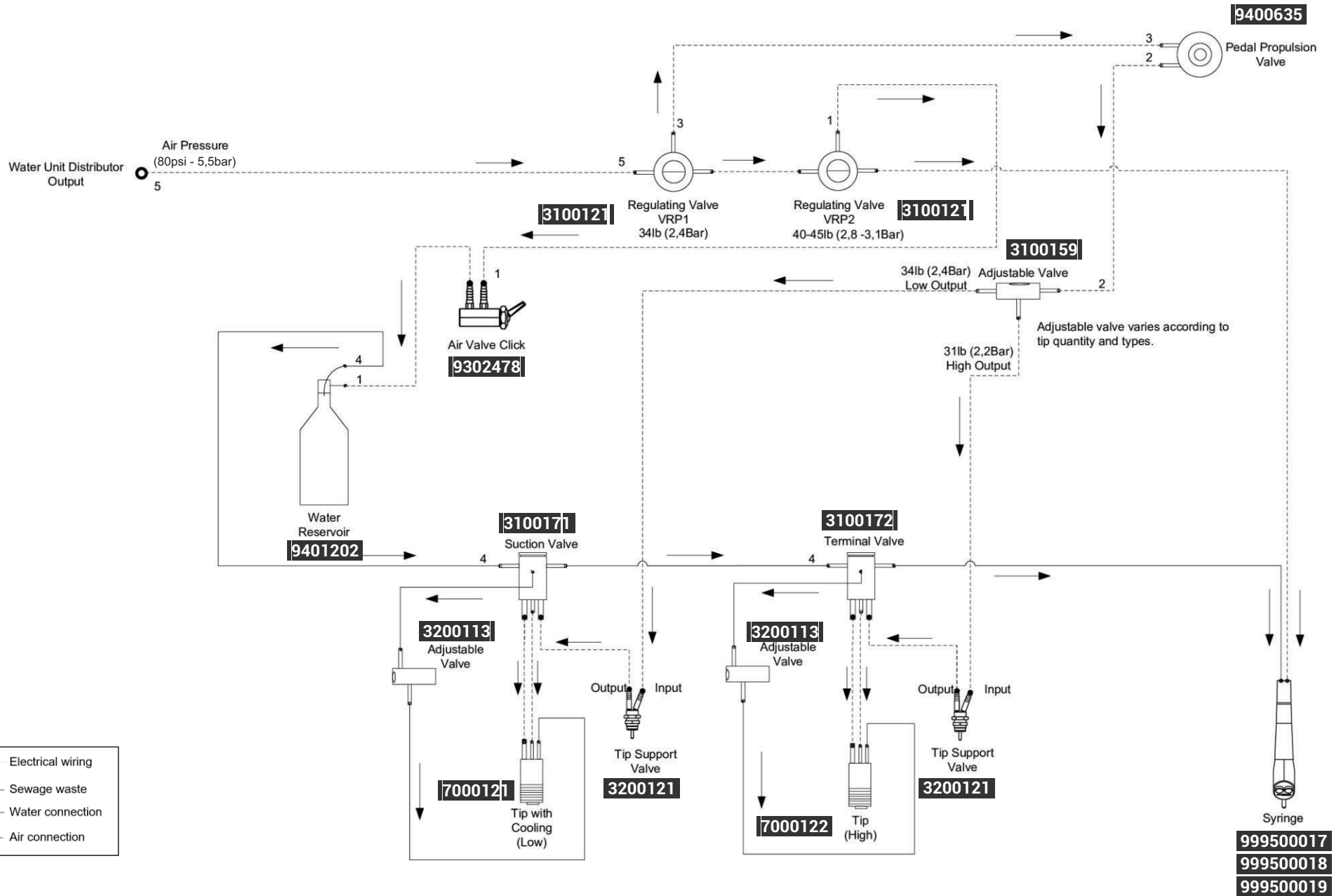
| Color Legends | |
|---------------|-------|
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| Blue | BU |
| Green | GN |
| White | WH |
| Brown | BN |
| Violet | VT |
| Crystal | CR |
| Orange | OG |
| Yellow | YE |
| Pink | PK |
| Grey | GY |
| Green/Yellow | GN/YE |
| Blue/White | BU/WH |
| Red/White | RD/WH |

Chronolub and Auxiliary Touch Connection

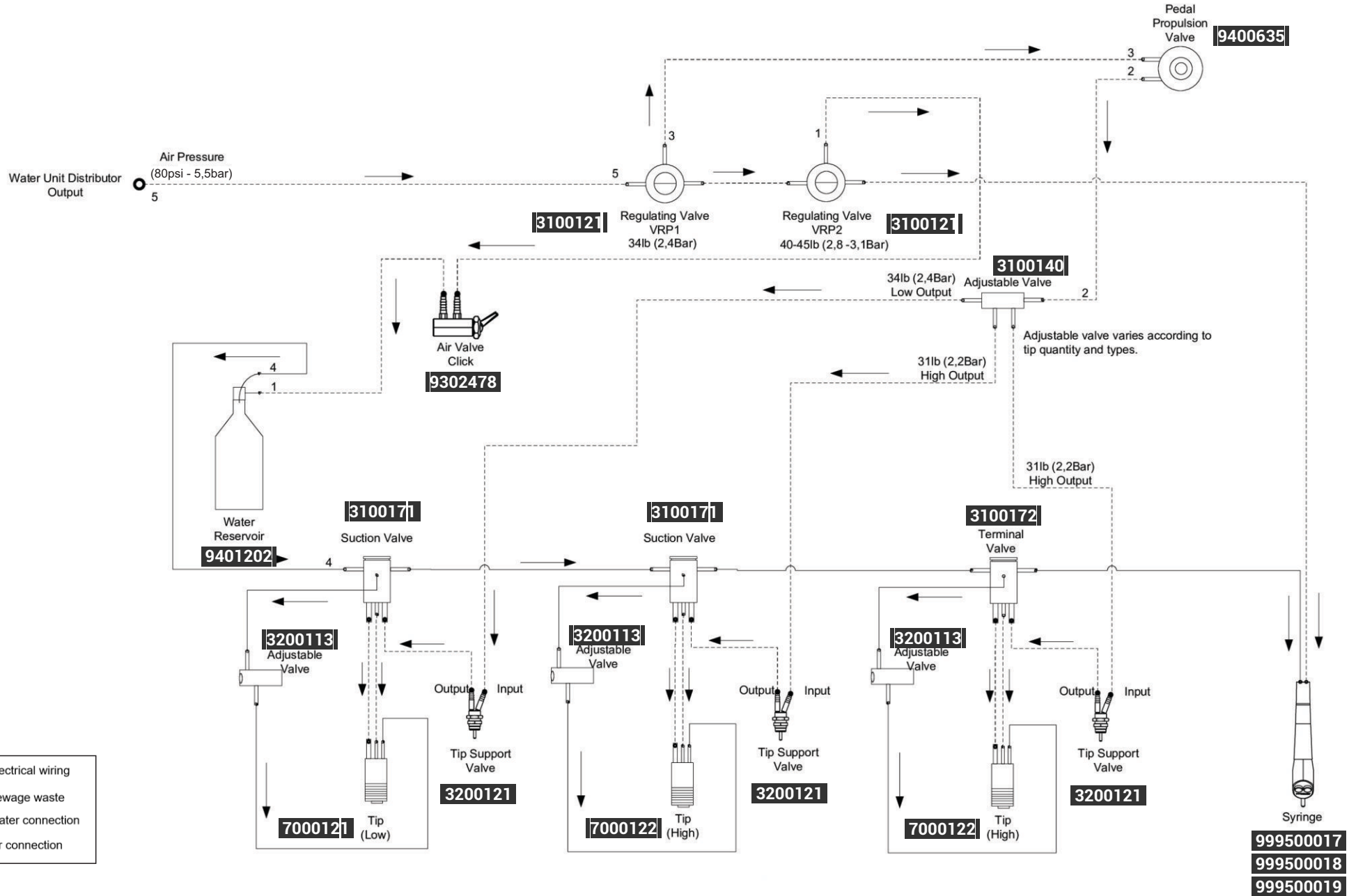
Optional according to the equipment configuration grid.



1.3
Low without Cooling



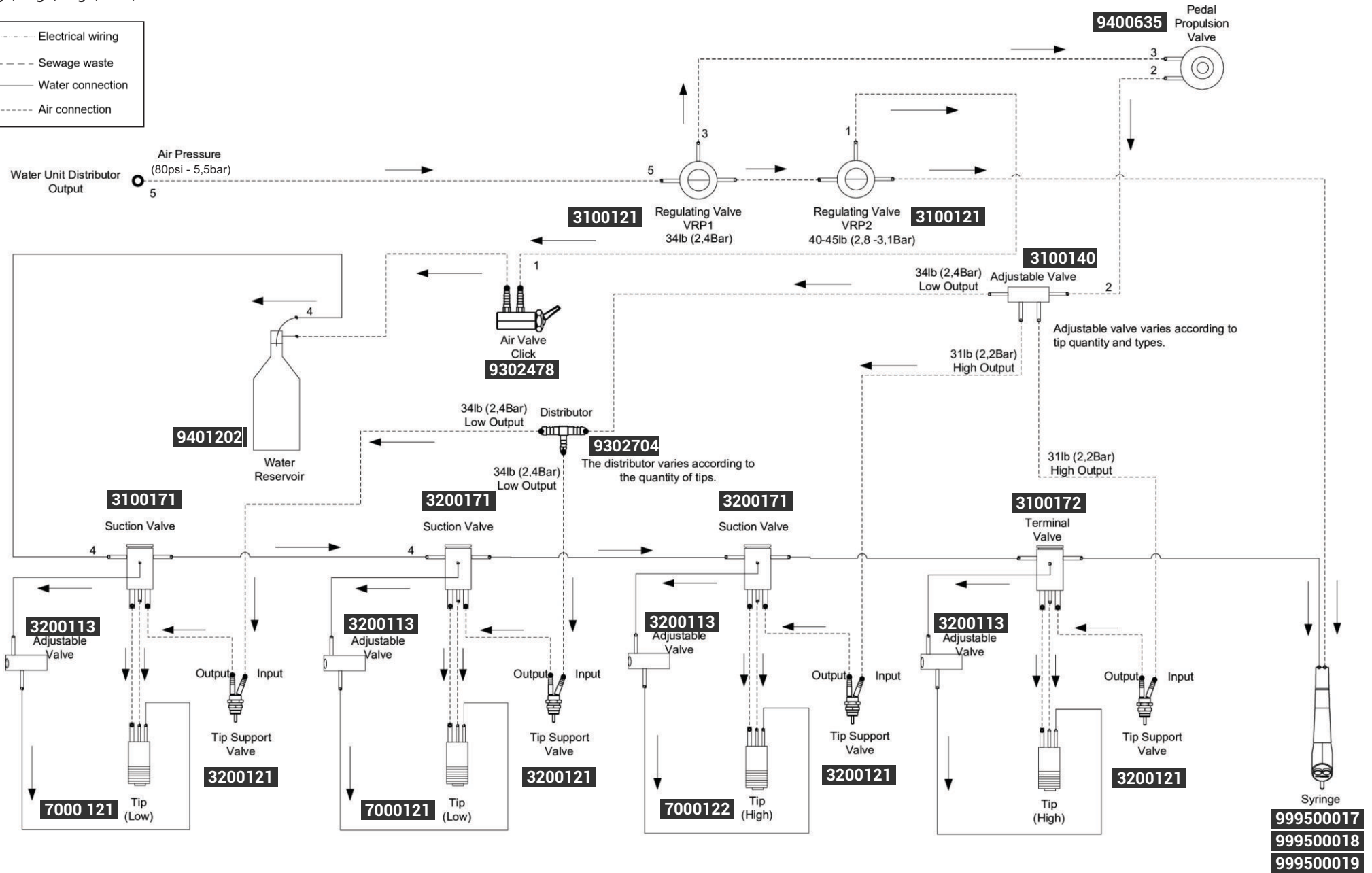
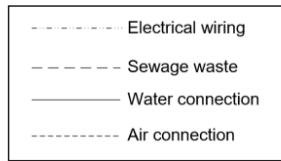
1.3
Low with Cooling

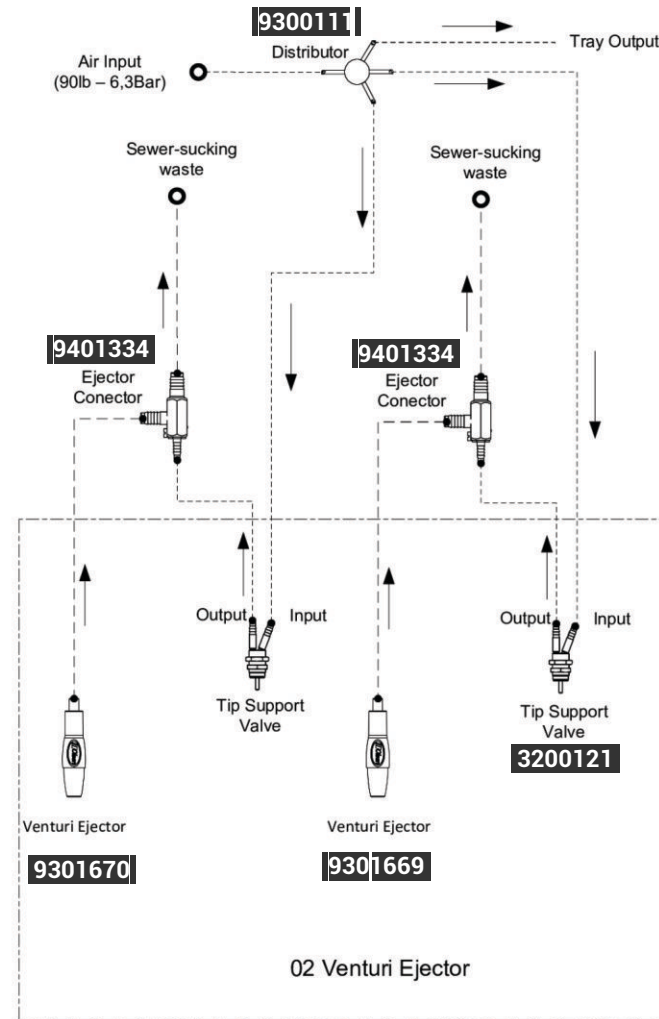
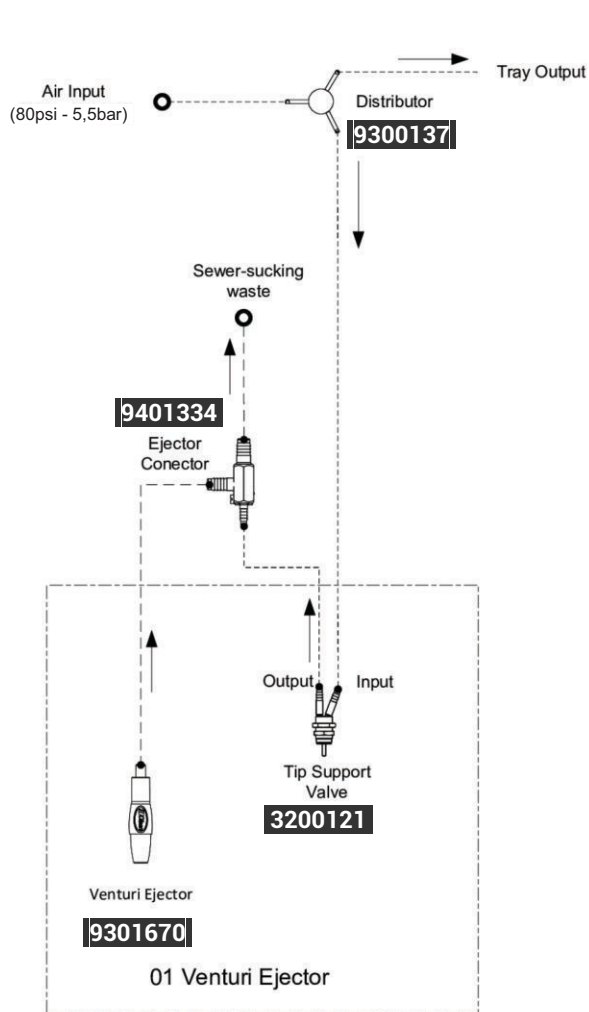


1.4
Syringe, High, High, Low

1.5

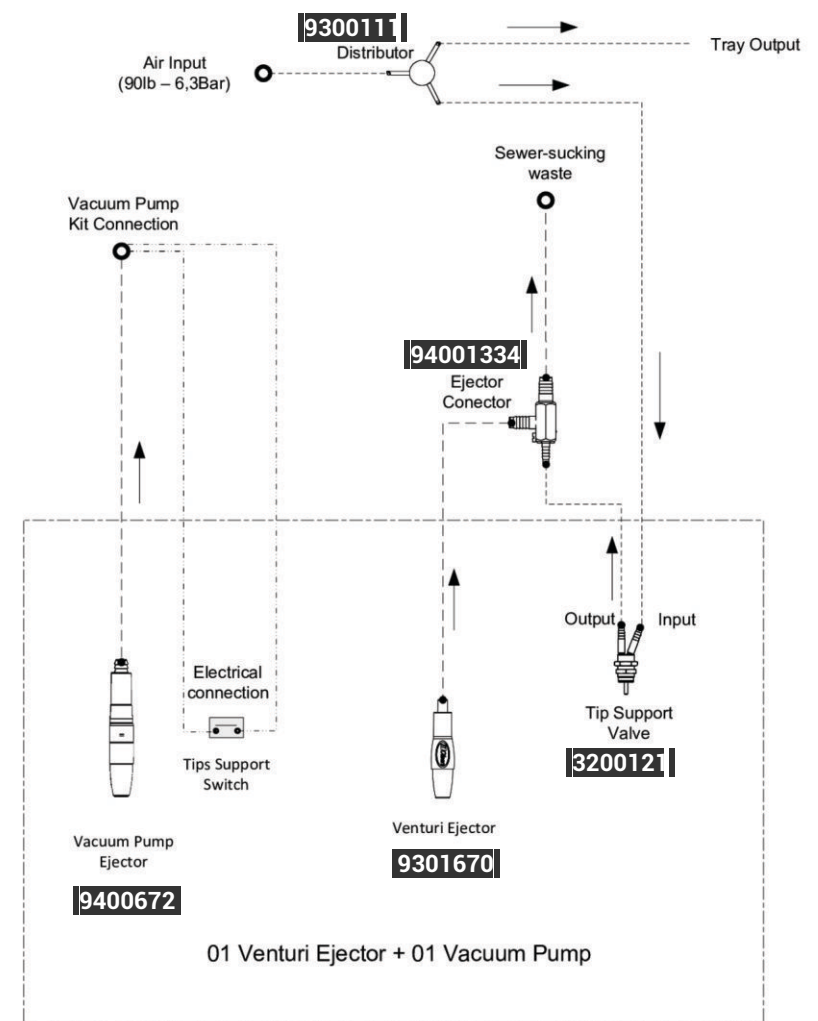
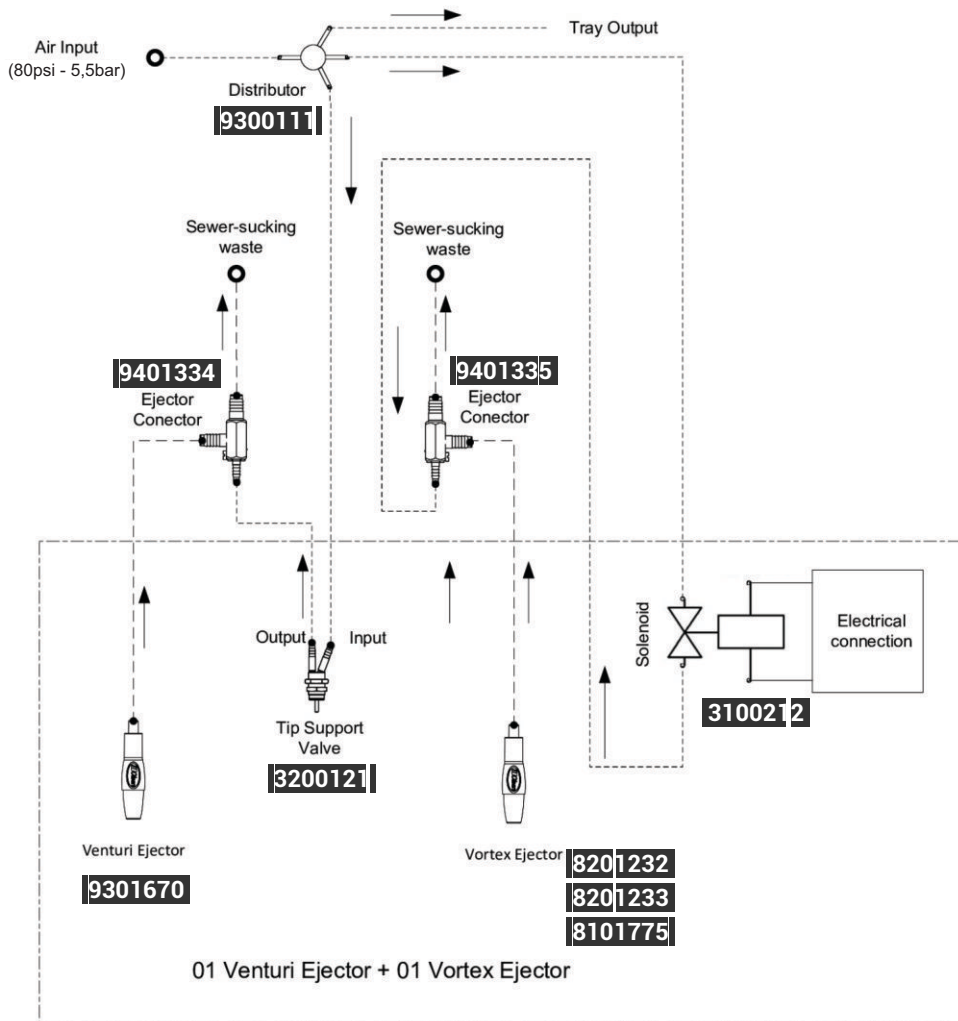
Syringe, High, High, Low, Low





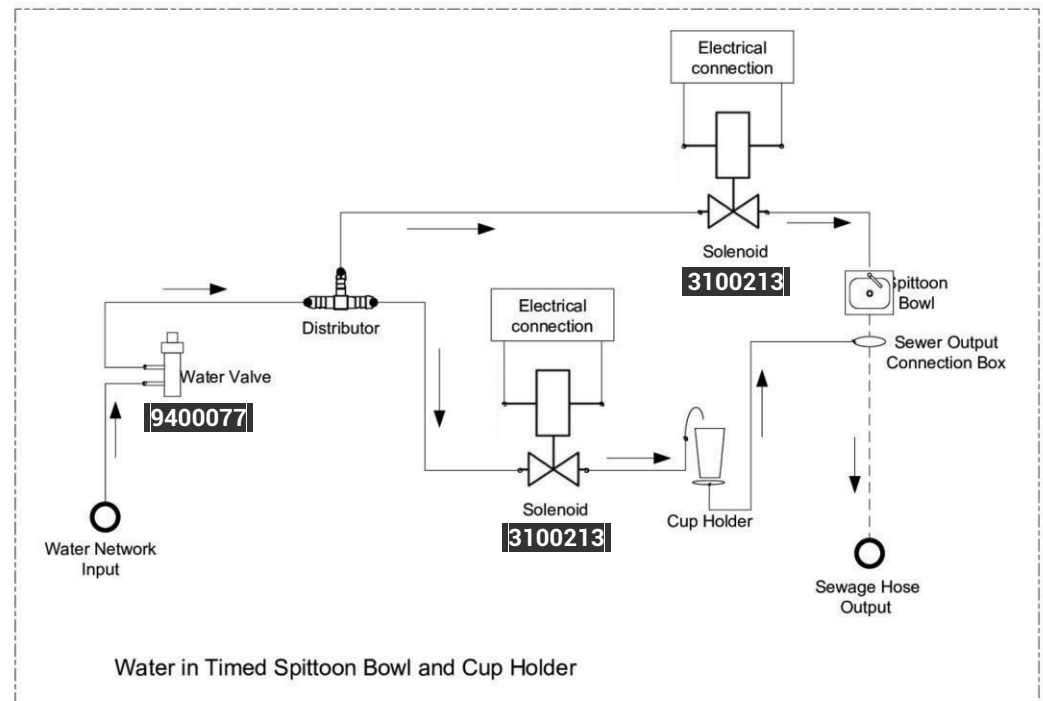
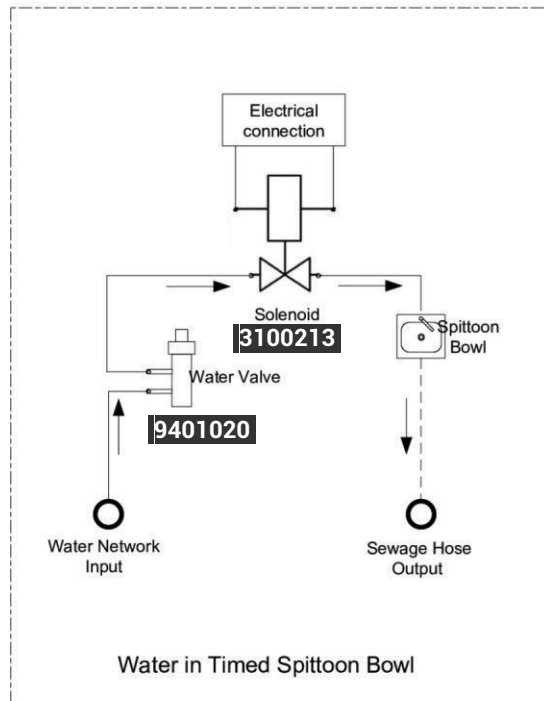
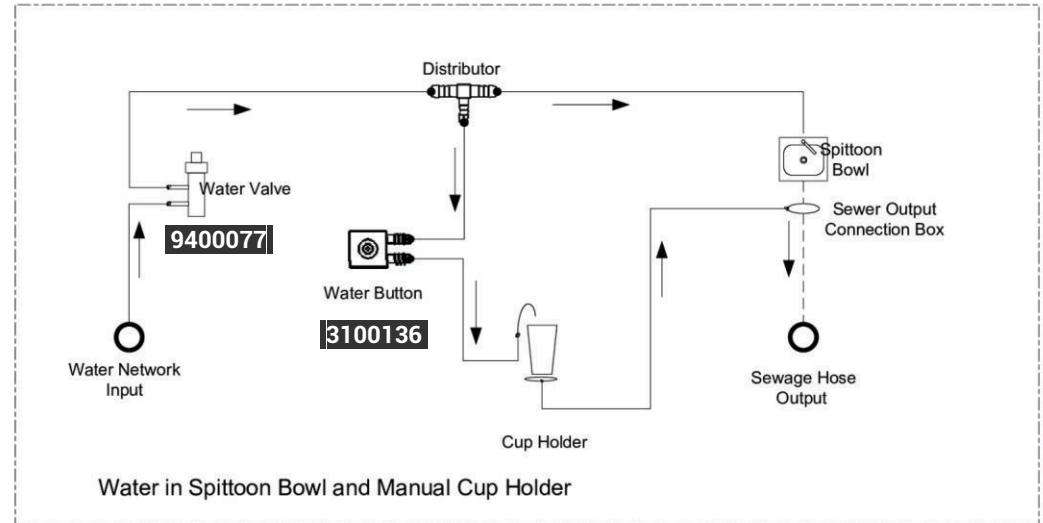
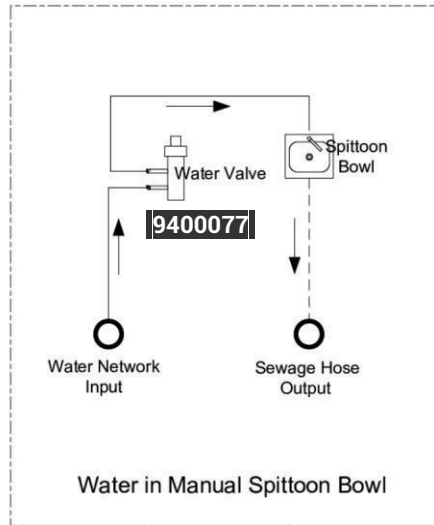
- Electrical wiring
- Sewage waste
- Water connection
- Air connection

WATER UNIT I



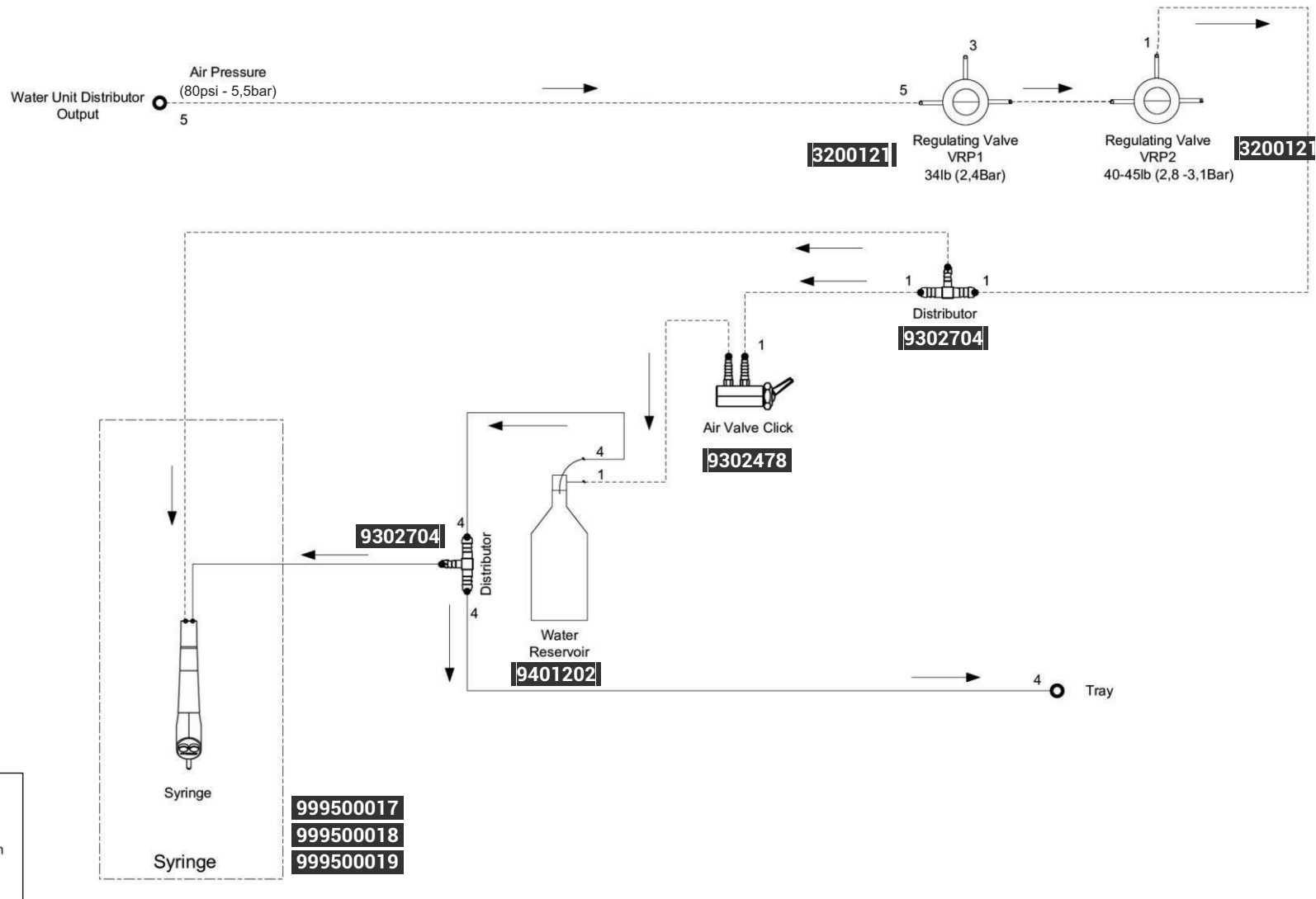
- Electrical wiring
- Sewage waste
- Water connection
- Air connection

WATER UNIT II

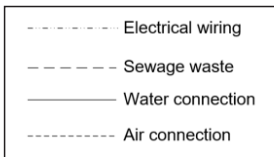
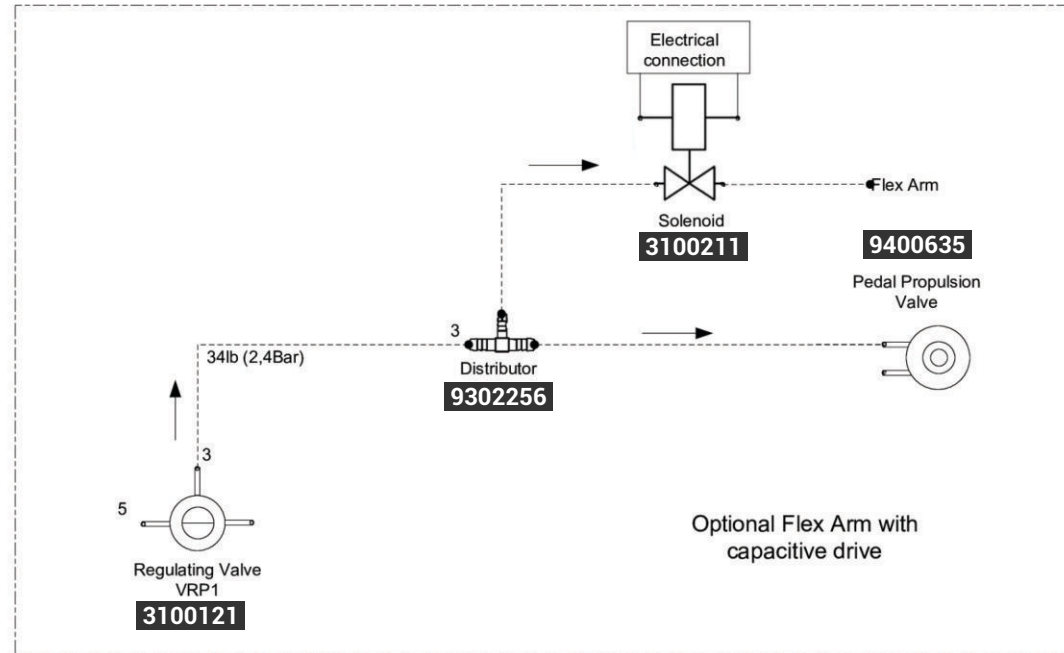
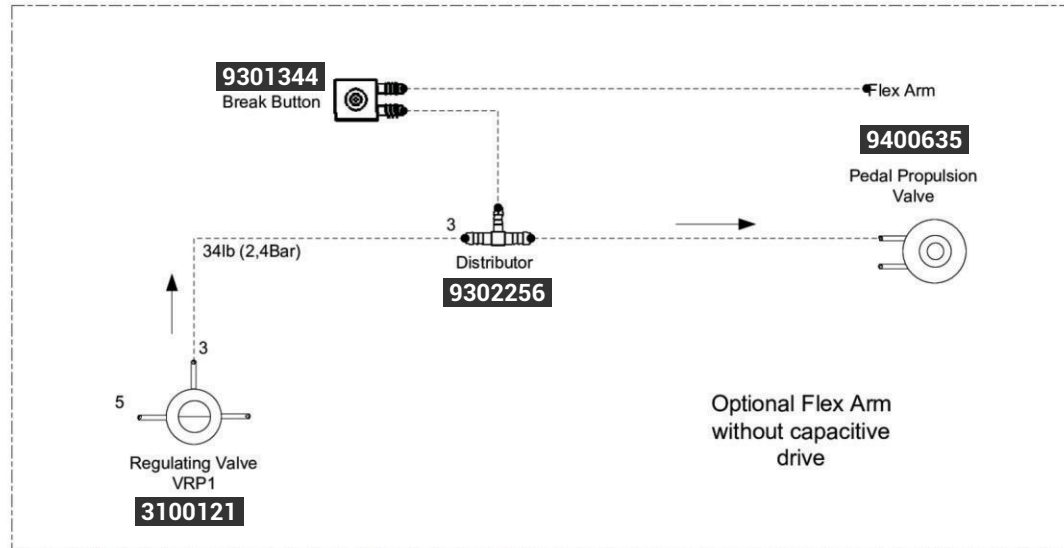


- Electrical wiring
- Sewage waste
- Water connection
- Air connection

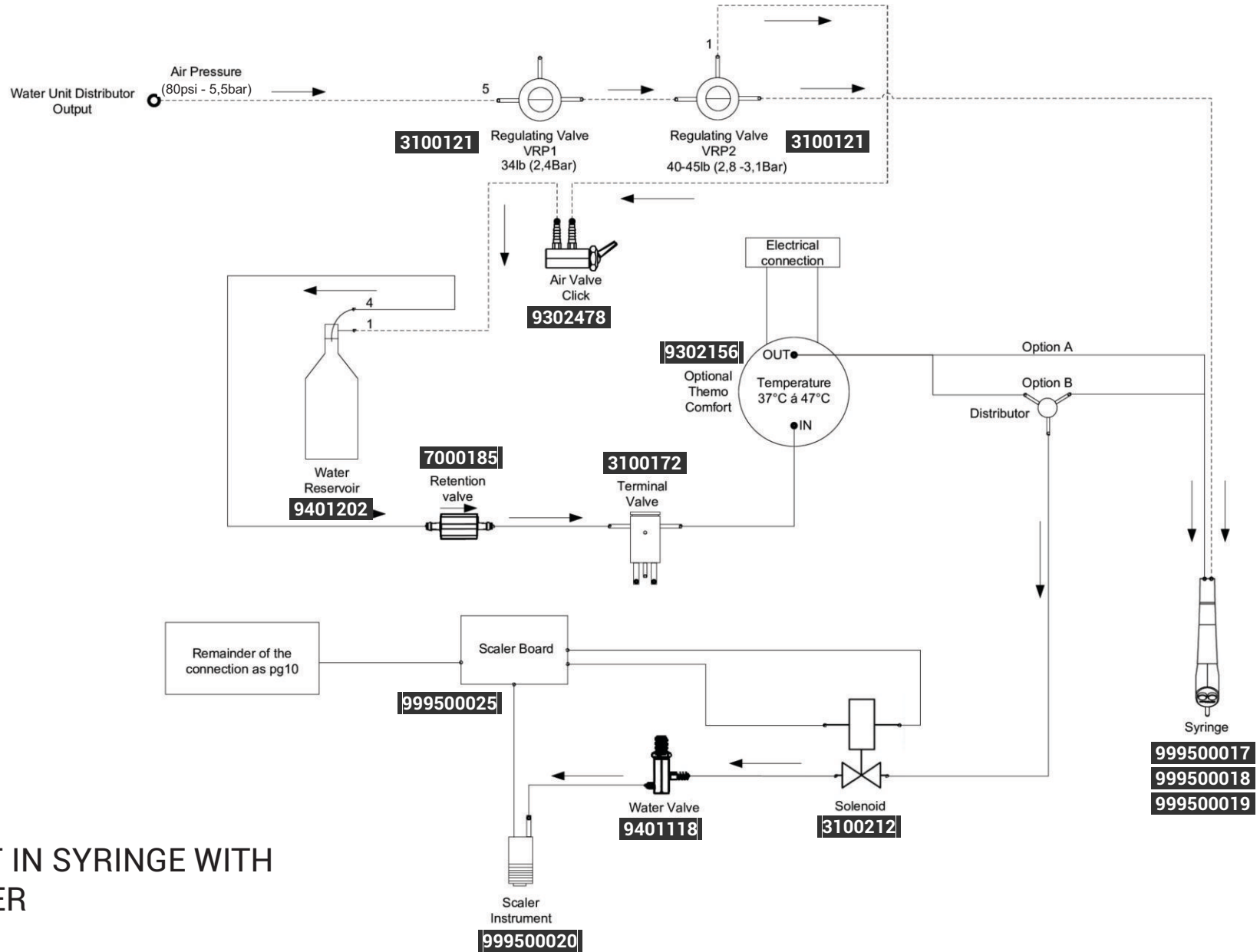
WATER UNIT III



WATER UNIT IV



FLEX ARM

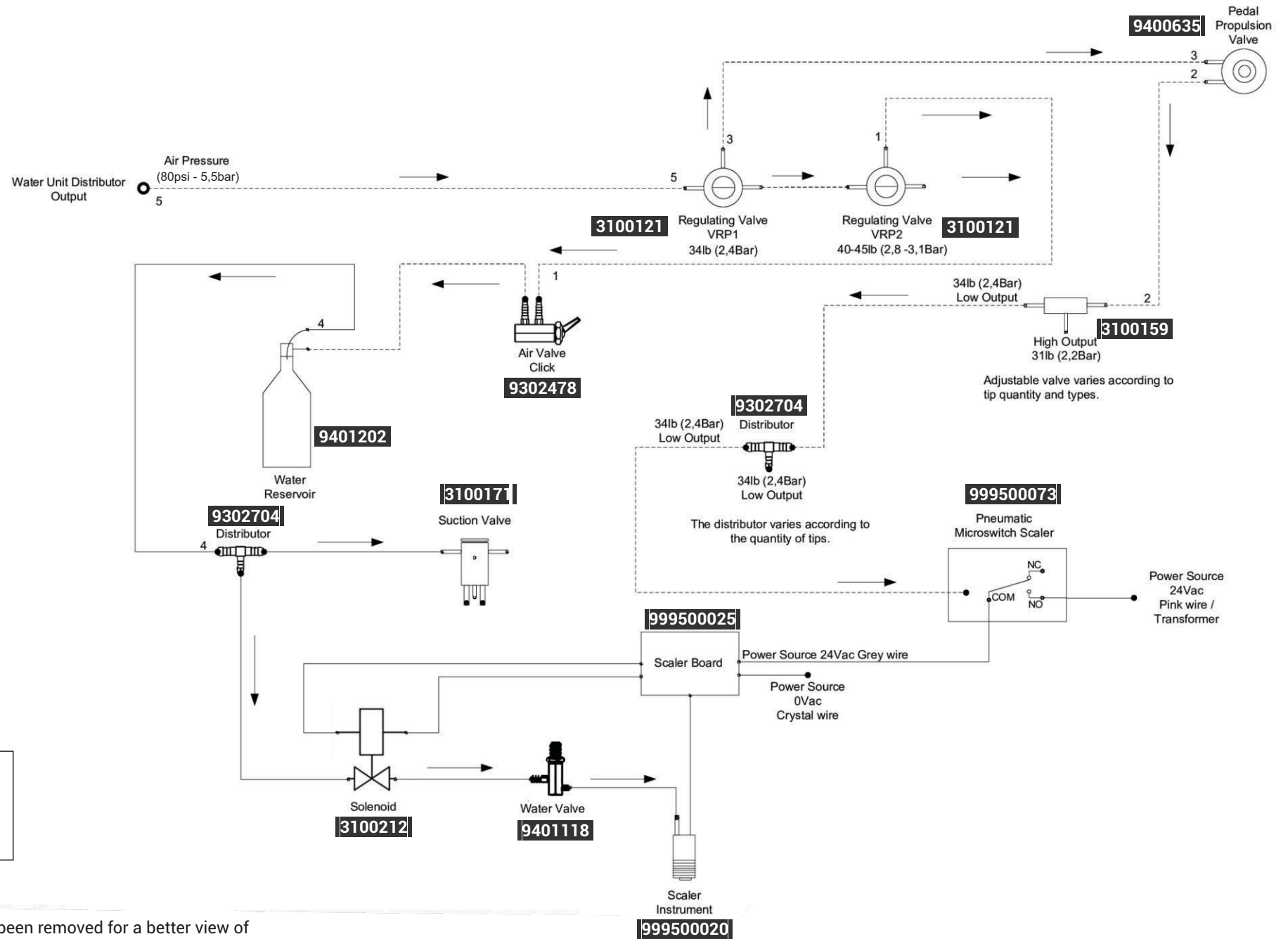


THERMO COMFORT IN SYRINGE WITH OPTIONAL IN SCALER

Option A: Syringe only

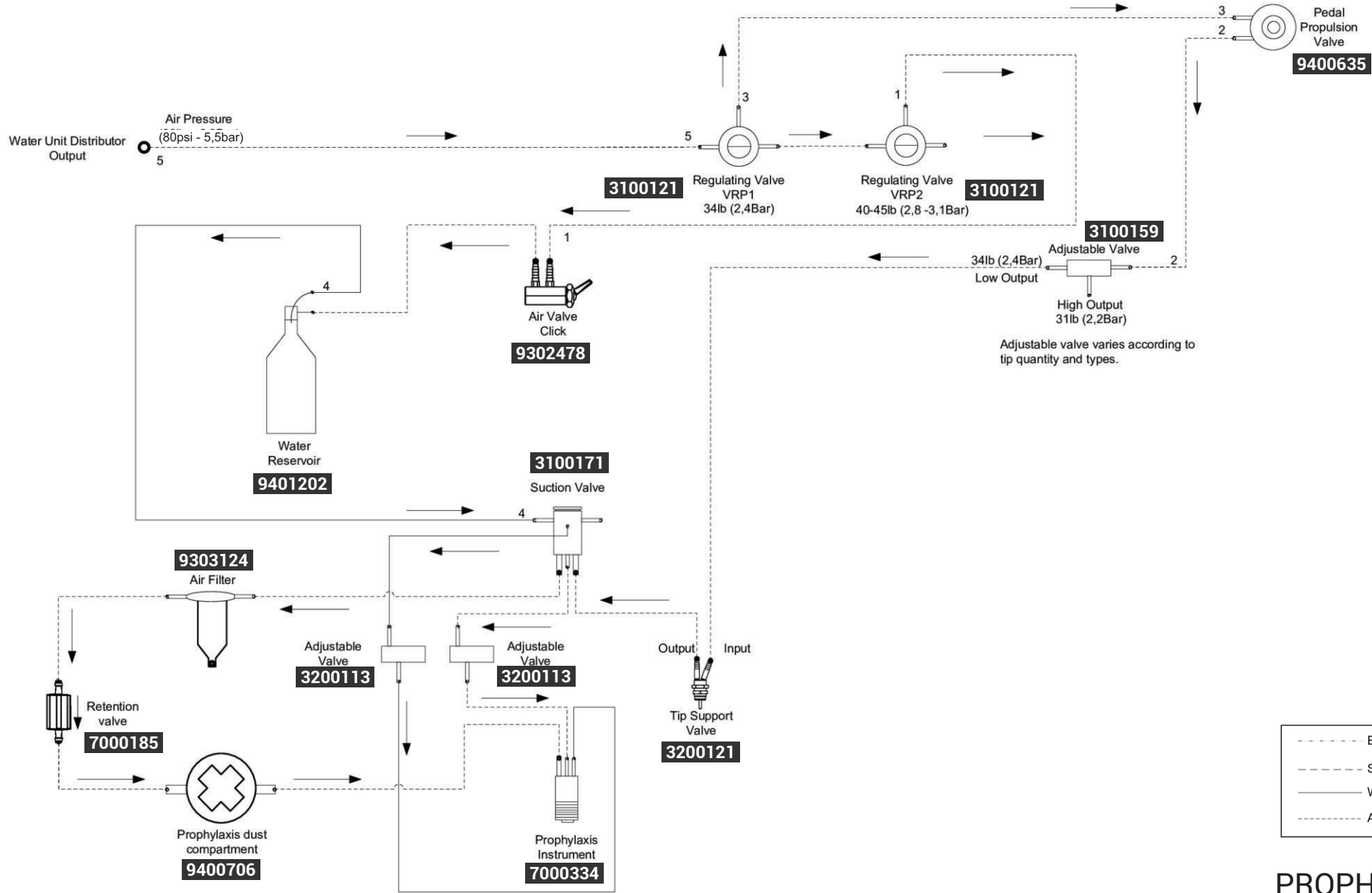
Option B: With Optional Scaler

All suction valves have been removed for a better view of the wiring diagram.



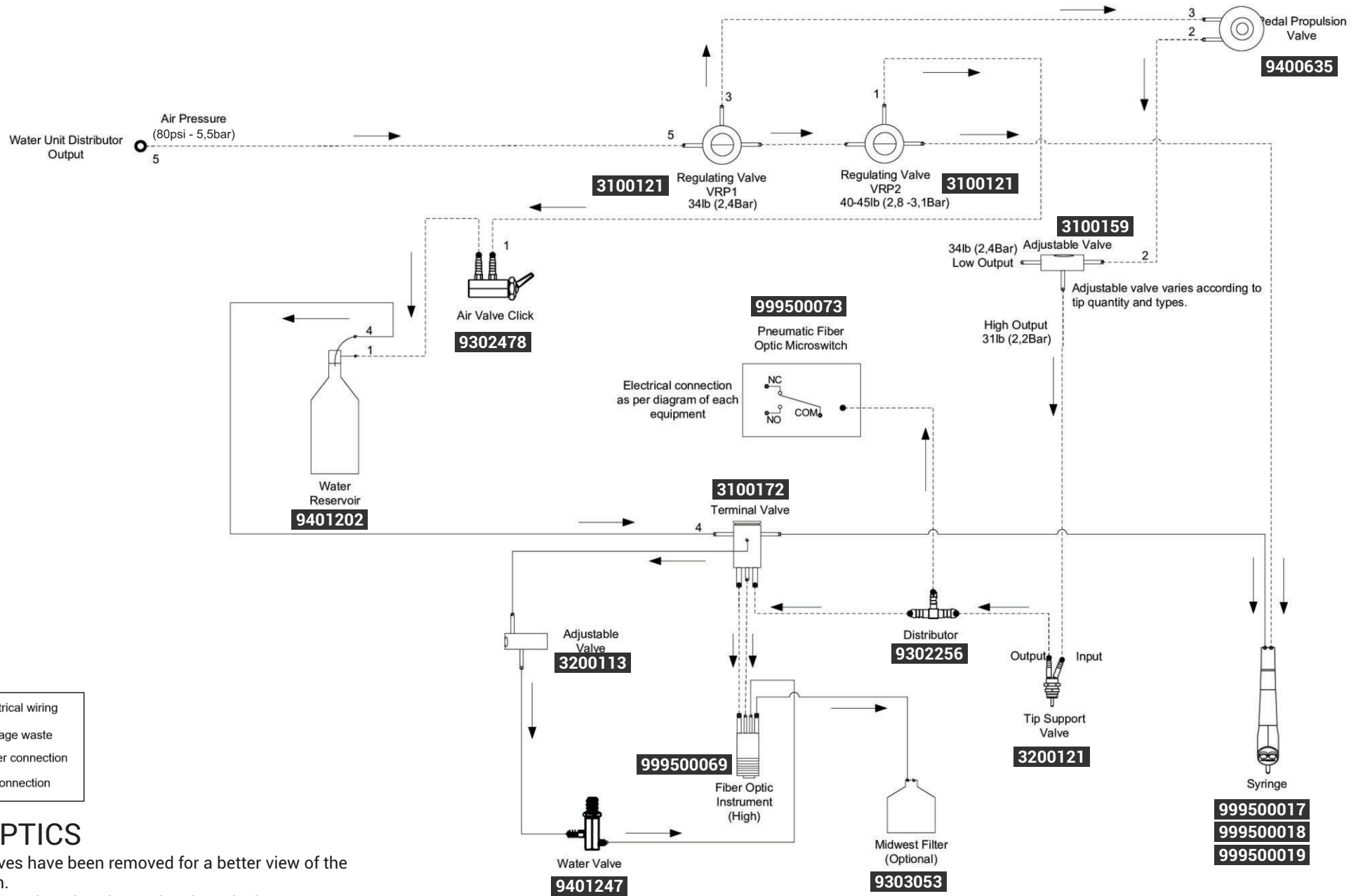
SCALER

All suction valves have been removed for a better view of the wiring diagram.



PROPHYLAXIS

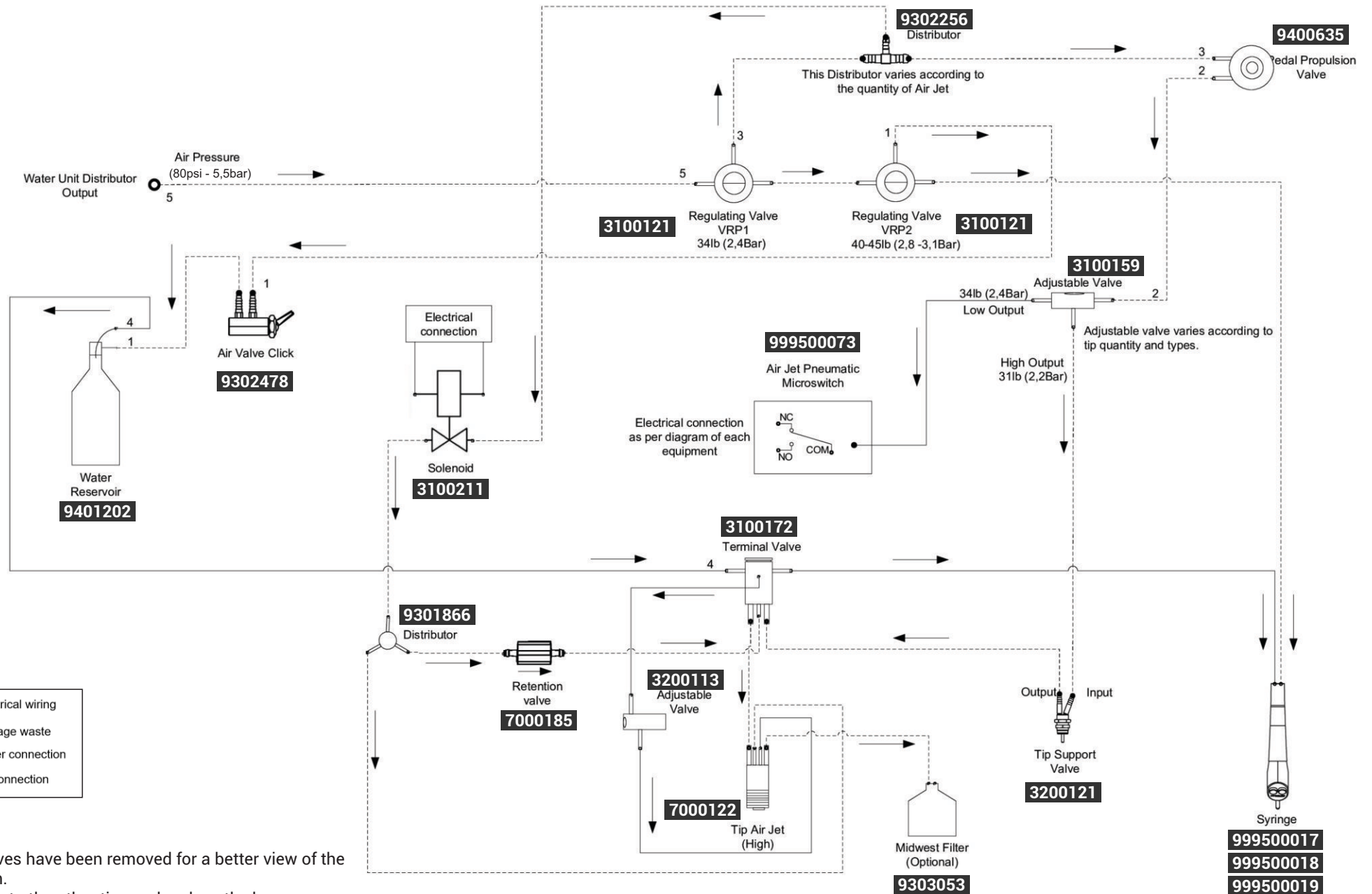
All suction valves have been removed for a better view of the wiring diagram.



FIBER OPTICS

All suction valves have been removed for a better view of the wiring diagram.

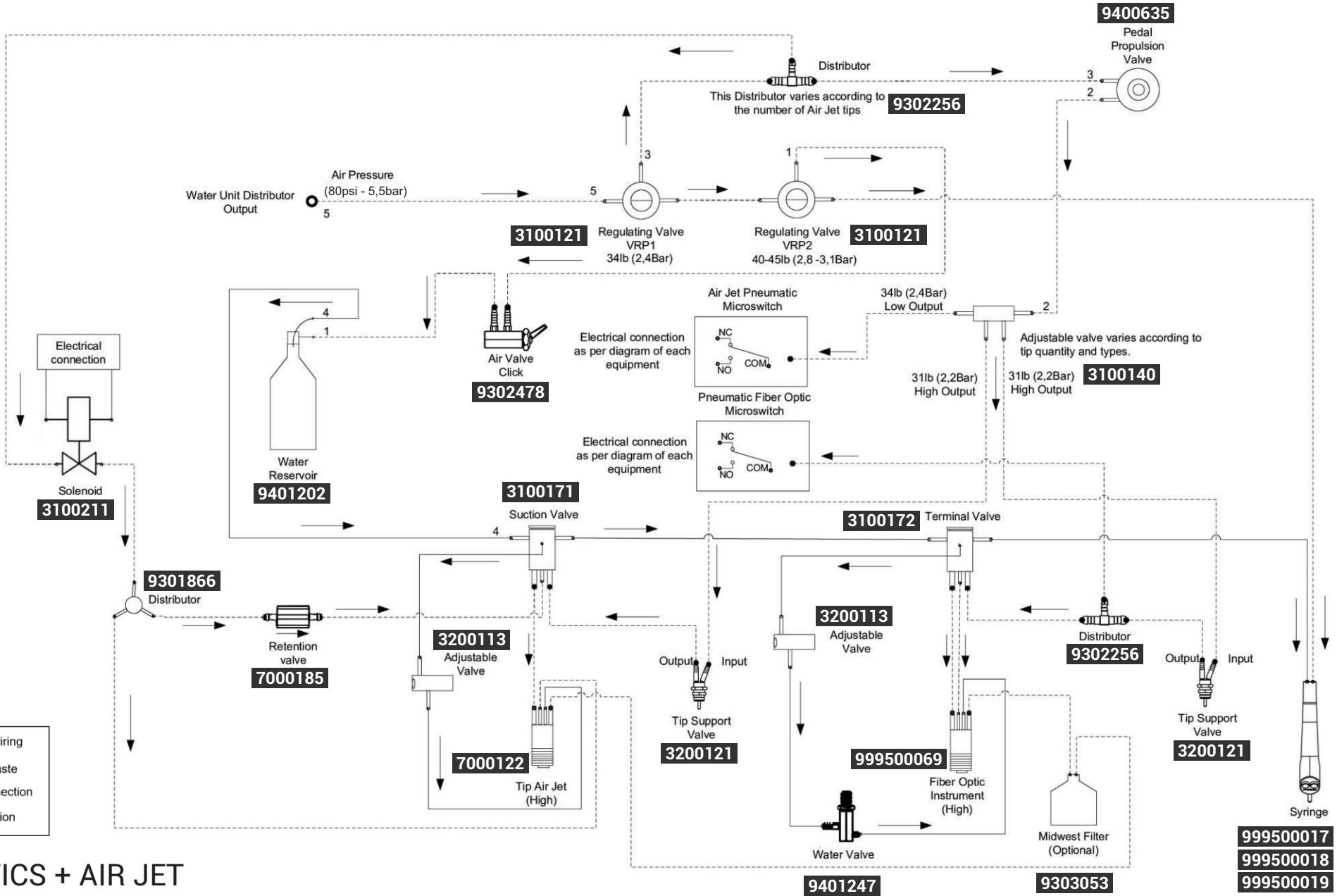
Note: Replicate to the other tips and replace the hose distributor 3 according to the number of tips.



AIR JET

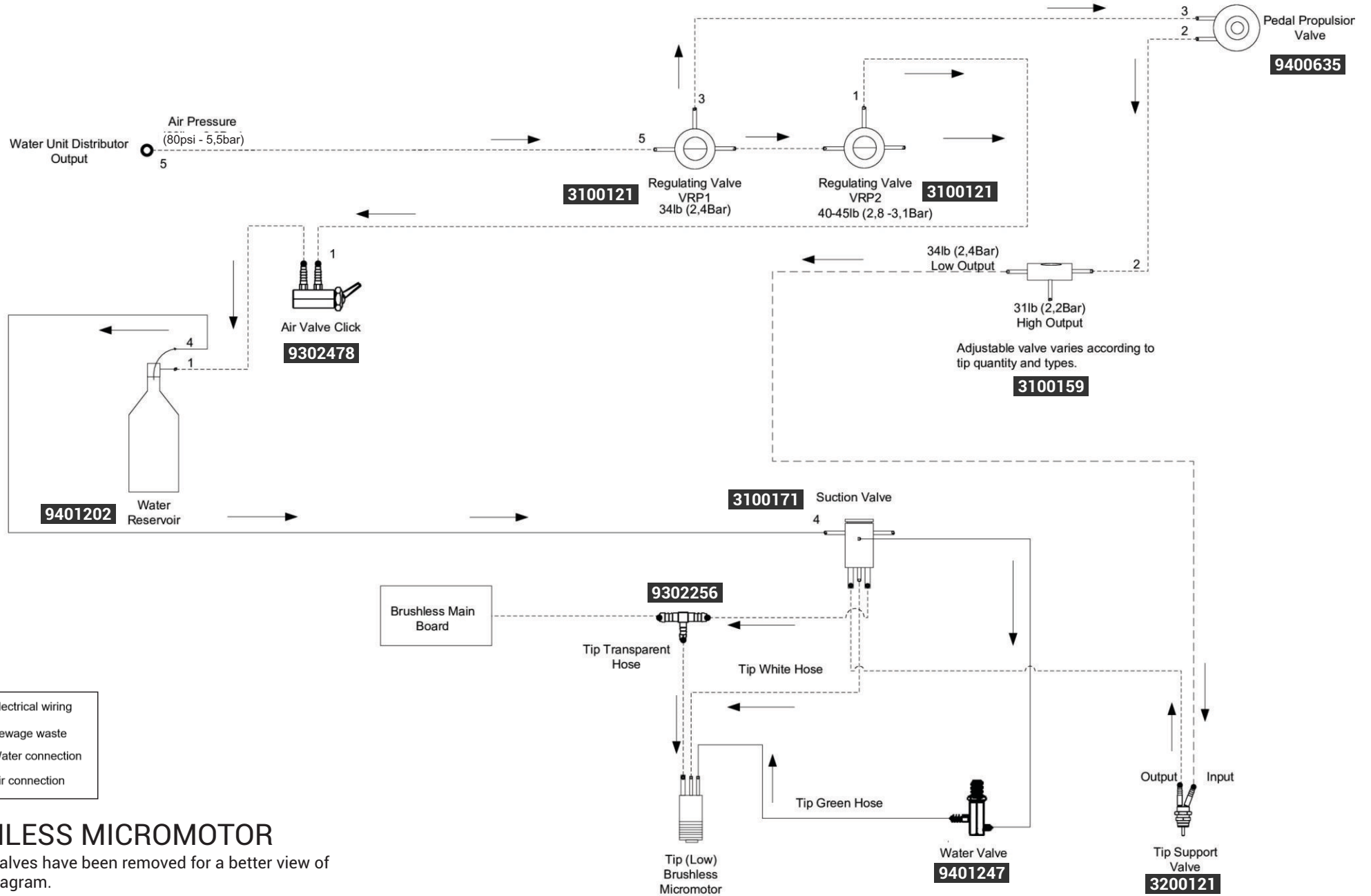
All suction valves have been removed for a better view of the wiring diagram.

Note: Replicate to the other tips and replace the hose distributor 3 according to the number of tips.



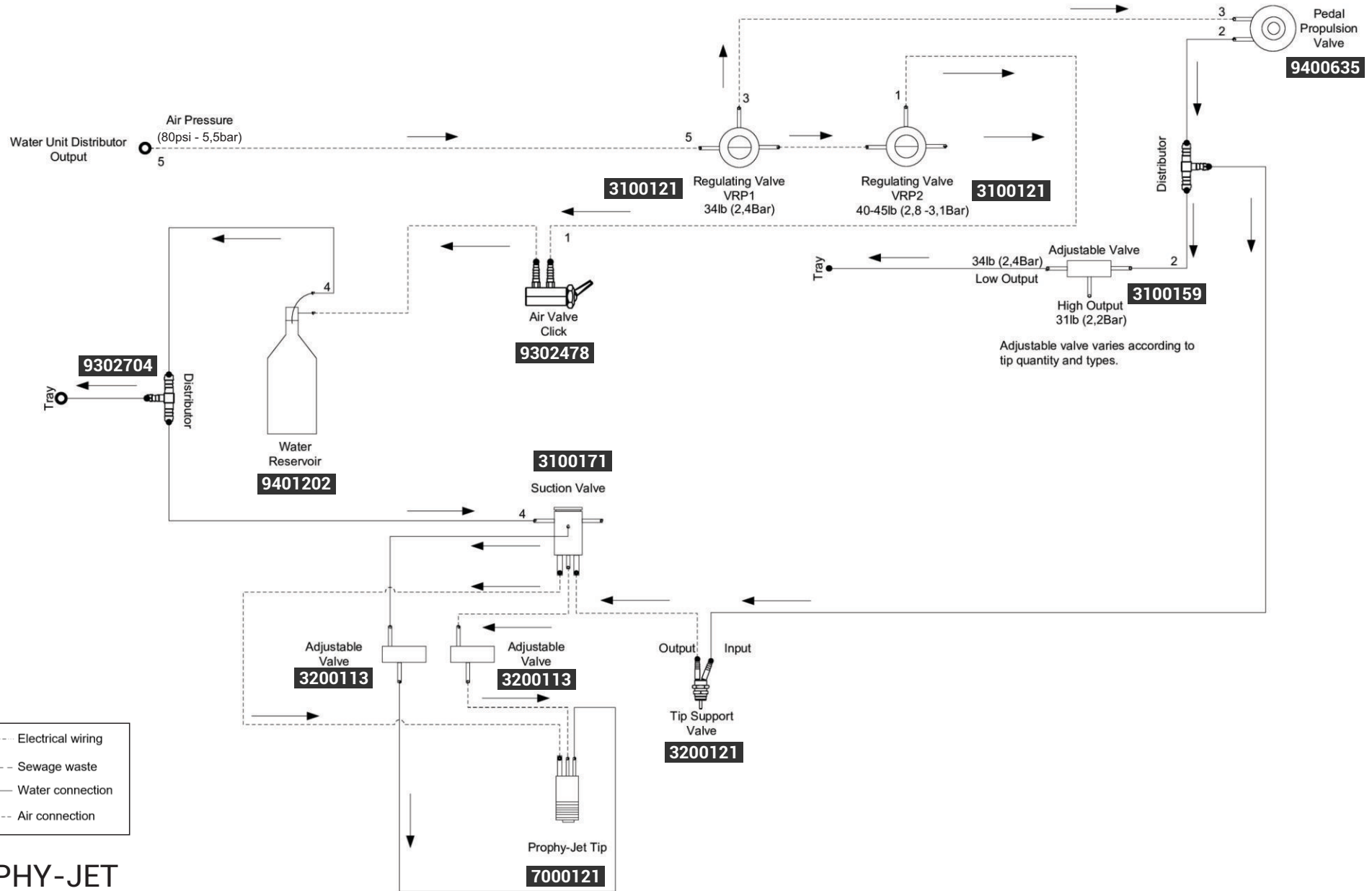
FIBER OPTICS + AIR JET

All suction valves have been removed for a better view of the wiring diagram.
 Note: Replicate to the other tips and replace the hose distributor 3 according to the number of tips.



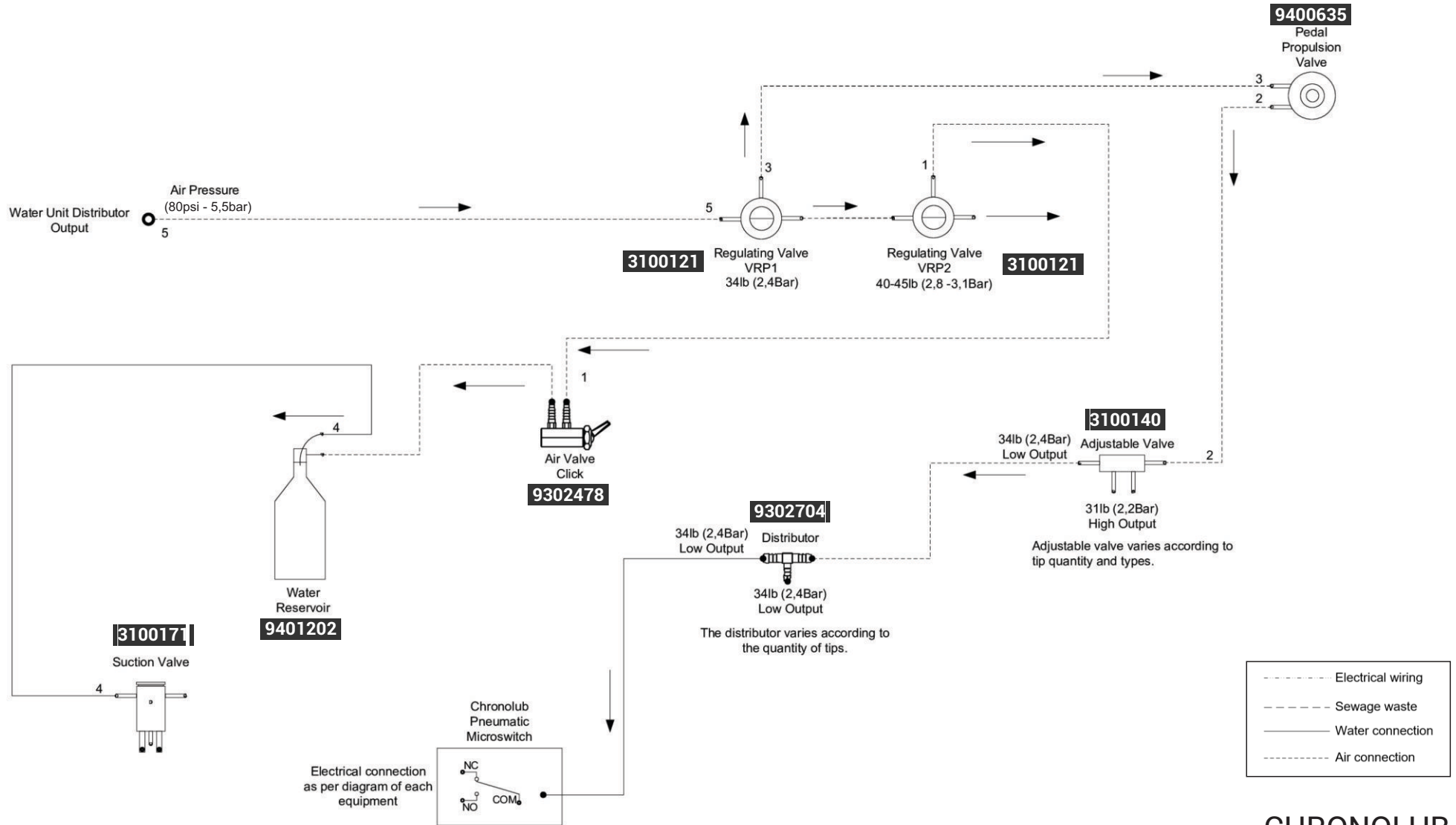
BRUSHLESS MICROMOTOR

All suction valves have been removed for a better view of the wiring diagram.



PROPHY-JET

All suction valves have been removed for a better view of the wiring diagram.



CHRONOLUB

All suction valves have been removed for a better view of the wiring diagram. The low outlet distributor can also be connected to hose 2, depending on the equipment.

///Olsen

Equipament made to last

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