CREM
A Welbilt Brand

ONE

Technical Manual

TM_EN

Part No.: 1964224_03

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Thank you for choosing an ONE espresso machine. We hope you enjoy it!

MANUAL REVISIONS

Rev. #	Date	TSB#	Description
01	July 25, 2019	none	Release first draft for technical review.
02	Jan 22, 2020	none	Update technical specifications and electrical diagrams
03	Apr. 04, 2020	#257	Software update. 1B (1.05) / 2B (1.09)
04			
05			

TECHNICAL SPECIFICATIONS

· Explanation of descriptions

There are five different levels of notification intensity within this manual, as identified by the signal words DANGER, WARNING, IMPORTANT, NOTE and PRO TIP. The level of risk and importance of the notification is determined by the following definitions. Always observe the warnings to ensure safety and prevent potential injury and product damage.

Important:

Alerts against unsafe practices. Observe Important notifications to ensure food safety, prevent possible minor personal injury, or damage to the machine.

WARNING:

Indicates a potentially hazardous situation which, if the WARNING is ignored, could result in serious injury or even death.

DANGER:

INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL LIKELY RESULT IN SERIOUS INJURY AND EVEN DEATH.

Note:

Gives additional information which may be helpful during the operation, routine maintenance, and cleaning of the machine.

Pro Tip:

Gives helpful hints and suggestions from the manufacturer that take the guesswork out of choosing settings and care intervals.

TECHNICAL SPECIFICATIONS

· Machine data

	ONE 1B VP	ONE 2B VP	ONE 2B RP-GSP	ONE 2B RP-LFPP
EU Compliance codes:	EAEB-I91F-13AP	EEEB-I91F-13AP	EEEB-I91G-13AP	EEEB-I94G-13AP
US Compliance codes:	EAJB-K91F-13BP	EEJB-K91F-13BP	EEJB-K91G-13BP	EEJB-K94G-13BP
Temperature control:	PID control	PID control	PID control	PID control
Dispensing control system:	Manual Group lever	Manual Group lever	Manual Group lever + GSP	Manual Group lever + GSP + LFPP
Steam wand:	1 unit	1 unit	1 unit	1 unit
Hot water outlet:	1 unit	1 unit	1 unit	1 unit
Boiler system:	1 steam boiler	Dual boiler: 1 steam boiler + 1 group boiler	Dual boiler: 1 steam boiler + 1 group boiler	Dual boiler: 1 steam boiler + 1 group boiler
Boiler operating pressure:	0.8 to 1.2 bar / 12-17 psi	0.8 to 1.2 bar / 12-17 psi	0.8 to 1.2 bar / 12-17 psi	0.8 to 1.2 bar / 12-17 psi
Steam boiler volume:	1.7L / 0.45 gal.	1.7L / 0.45 gal.	1.7L / 0.45 gal.	1.7L / 0.45 gal.
Group boiler volume:	N/A	1.5L / 0.40 gal.	1.5L / 0.40 gal.	1.5L / 0.40 gal.
220-240V Power rating:	220-240V~ 50-60Hz 1800W	220-240V~ 50-60Hz 1800W	220-240V~ 50-60Hz 1800W	220-240V~ 50-60Hz 1800W
110-127V Power rating:	110-127V~ 50-60Hz 1300W	110-127V~ 50-60Hz 1300W	110-127V~ 50-60Hz 1300W	110-127V~ 50-60Hz 1300W
Water connection:	3/8" Internal thread	3/8" Internal thread	3/8" Internal thread	3/8" Internal thread
Height, width, depth:	420, 300, 458mm / 17, 12, 18in.	420, 300, 458mm / 17, 12, 18in.	420, 300, 458mm / 17, 12, 18in.	420, 311, 458mm / 17, 12, 18in.
Machine weight:	30kg / 66 lb	35kg / 77 lb	35kg / 77 lb	35kg / 77 lb
Ambient noise:	< 70 db	< 70 db	< 70 db	< 70 db

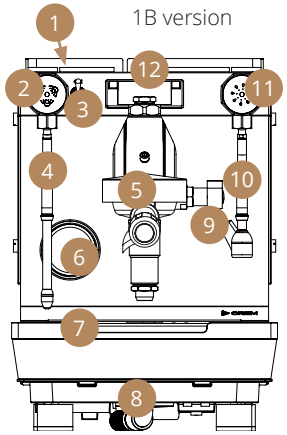
· Accessories

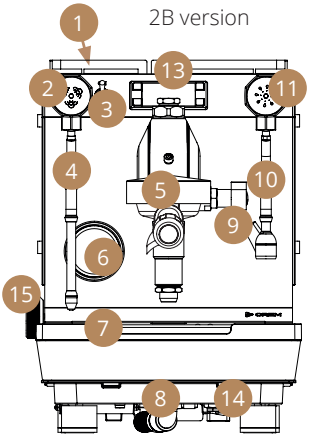
For 1B versions	2-spouts porta filter	Filter basket	Filter blind	Brush	Cleaning tablets	Water tank filter
		7 gr. 14 gr.				
Units	1 unit	1 of each	1 unit	1 unit	1 unit	1 unit

For 2B versions	2-spouts porta filter	Filter basket	Filter blind	Tamper	Extra steam nozzle	Brush	Milk Jar	Cleaning tablets	Water tank filter
		7 gr. 14 gr. 18 gr.							
Units	1 unit	1 of each	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit

TECHNICAL SPECIFICATIONS

· Machine description

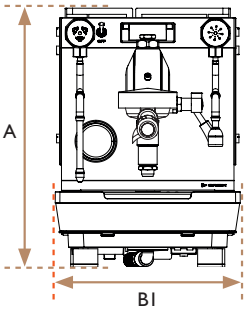




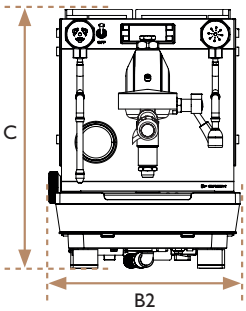
1. Water tank lid
2. Steam knob
3. Power switch
4. Steam wand
5. Brewing group
6. Double pressure gauge
7. Drip tray
8. Drain connection
9. Brewing lever
10. Hot water tap
11. Hot water knob
12. Digital display (1B version)
13. OLED display (2B versions)
14. Water connection selector
15. Pressure profiling knob (2B PID R-LFPP)

· External dimensions

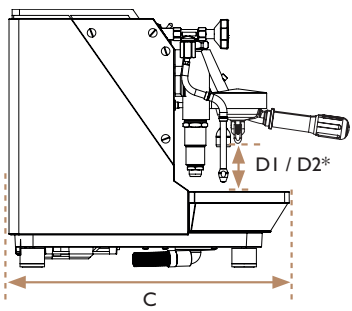
1B/2B PID
2B PID R-GSP



2B PID R-LFPP



All models



Dimensions	A	B1 / B2	C	D1 / D2
Length	420mm / 17in.	300mm / 311mm 12in. / 12in.	458mm / 18in.	88mm / 102mm 3in. / 4in,

* Measurement without the middle grid.

ROUTINE MAINTENANCE SCHEDULE

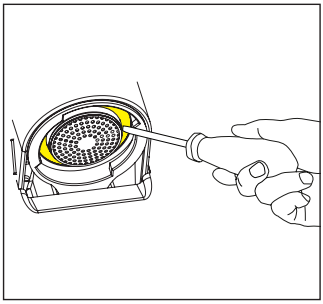
· Service intervals

Main components	Part No.	Months (Cycles)			
		12 (12500)	24 (25000)	36 (37500)	48 (50000)
Boiler					
Vaccum valve	65000210	Check	Check	Check	Replace
Boiler filling solenoid valve	60000126 (230V) 60000127 (115V)				Replace
Boiler upper raccord	30000200		Check		Check
Boiler lower raccord	30000203		Check		Check
Safety Valve	65000115		Check		Check
Brewing group					
Shower	75000010	Replace	Replace	Replace	Replace
Group head gasket	75000081 (8mm) 75000083 (8.5mm)	Replace	Replace	Replace	Replace
Taps					
Steam tap	15000401		Clean	Replace	
Water tap	15000411				Replace
Motor-pump					
Vibration Pump	10036421 (230V) 60000047 (110V)				Replace
Rotary Pump	60000021				Replace
Non return valve	65000011				Replace
Pump Bypass	30400055				Check

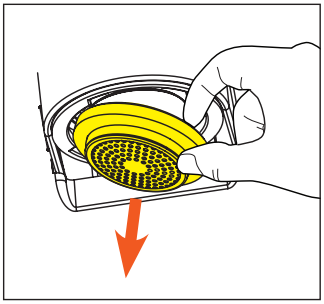
Important:
Always conduct the 6 month service intervals without delay to ensure excellent performance of the machine and to ensure full warranty coverage.

CHANGING THE GROUP GASKET

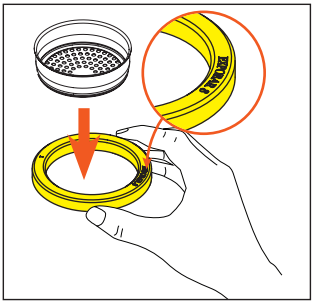
· All versions



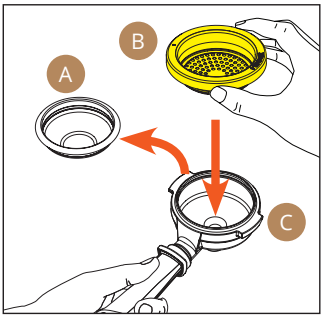
1. To remove the porta-filter, use a straight-blade screwdriver to release the shower by prying down with medium force.



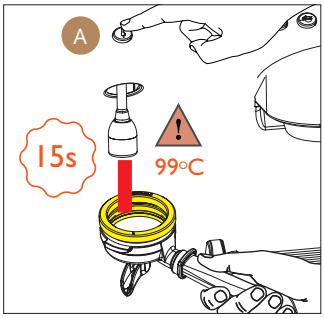
2. Remove the shower and gasket.

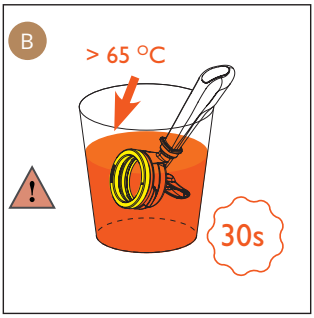


3. Remove and discard the old gasket. Insert the new gasket (chamfer and EXPOBAR logo facing up) into the shower.



4. Remove the filter basket(A), then place the new gasket and shower(B) into the porta-filter(C).





5. Preheat the gasket to soften the rubber. A - heat the gasket for 15 seconds using the water from the hot water outlet, or B - place the gasket, shower, and porta-filter in hot water for 30 seconds.

WARNING!
The water from the water tap is very hot! Handle with care to prevent scalding or burns.

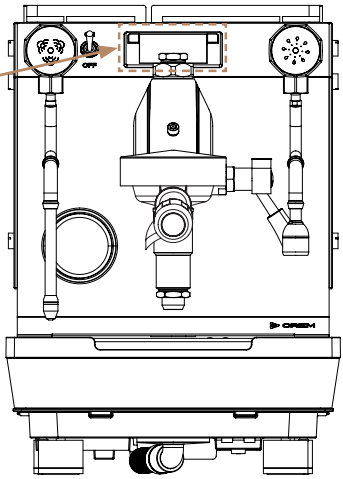
BUTTONS AND CONTROLS

· 1B Version

ONE 1B Dual is controlled by a combination of manual control knobs, buttons and a brewing lever for dispensing.

Digital display

2 buttons



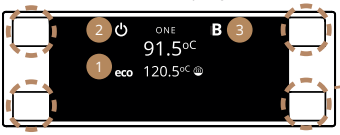
This machine features a group display for monitoring off:

- Shot timer
- Temperature
- 1. Tank empty/refill signal
- 2. Heating signal

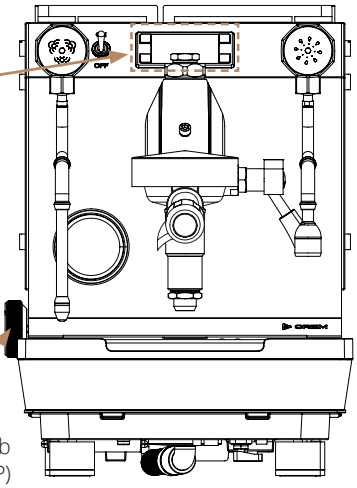
· 2B Version

All ONE 2B verions is controlled by a combination of manual control knobs, buttons and a brewing lever for dispensing. 2B LFPP is also equiped with a pressure profiling knob.

OLED display



4 buttons



This machine features a OLED display for monitoring off:

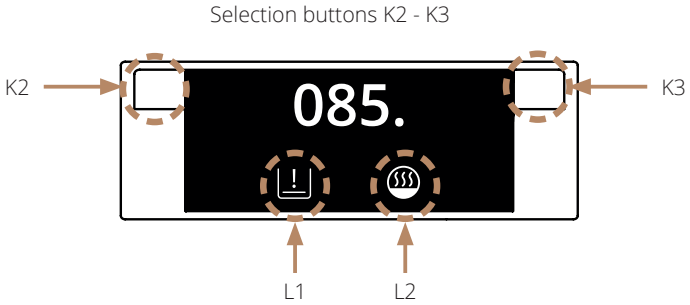
- Shot timer
- Temperature
- Volume (2B LFPP)
- Heating
- Tank empty/refill
- Several alarms
- 1. Eco / 2. Standby mode
- 3. Barista menu (Advanced settings)

Pressure profiling knob (Only 2B LFPP)

SERVICE PROGRAMMING 1B

· User interface 1B

The machine is equipped a programmable interface that allows users to set or adjust the following features and parameters with guidance from the digital display.



· Factory preset

To restore the machine to factory default programming settings, follow the steps below:

1. Turn the machine off at the main power switch.
2. Press and hold K2 + K3 simultaneously while turning the main power switch back on. The display will show “PrS” and all previously customized settings will be erased and replaced with the factory settings.
3. Cycle the machine off and on once more at the main power switch.

Note:
After a preset is done, F.02 Brewing mode setting is turned ‘On’ by default. For ONE 1B models, access to the technical menu and set this setting into ‘Off’ to enable the group switch again.

· Service menu – Access & browsing

To access the service programming settings, follow the steps below:

1. Turn the machine off at the main power switch.
2. Press and hold K2 while turning the main power switch back on. The display will show “F.01”
3. Browse through the menu by pressing K2. Access to each setting by pressing K3 and within 5s, modify the setting by pressing K2 or K3.
4. Cycle the machine off and on to exit from the technical menu.

SERVICE PROGRAMMING 1B

· F.01 – Boiler filling time-out alarm

To change the machine's steam boiler filling time-out alarm, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'F.01' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the boiler filling time out. 120s is set by default.
4. After 5s the display will go back the service programming menu.

· F.02 – Brewing mode

To change the brewing mode, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'F.02' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the brewing mode:
   a. On (Control mode): For machines with control pad installed.
   b. Off (Lever mode): For machines with manual group lever.
4. After 5s the display will go back the service programming menu.

Note:
For ONE 1B models, access to the technical menu and set this setting into 'Off'.

· F.03 – Level probe sensitivity

To change the machine's level probe sensitivity, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'F.03' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the level probe sensitivity between 'MAX', 'MED' and 'MIN'. 'MED' is set by default.
4. After 5s the display will go back the service programming menu.

· F.04 – Enabling/Disabling shot timer

To enable or disable the brewing shot timer on the group display, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'F.04' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the select between 'On' or 'Off'.
4. After 5s the display will go back the service programming menu.

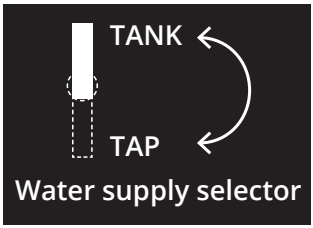
SERVICE PROGRAMMING 1B

· A.01 – Water supply mode

To select the water supply mode, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'A.01' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the select between: 'd' (Dual), 't' (Tank) or 'n' (Net).
4. After 5s the display will go back the service programming menu.

- **'d'** Dual mode: Automatic water reservoir refilling enabled if the machine is plumbed.
- **'t'** Tank mode: Automatic water reservoir refilling disabled. Water reservoir supply only.
- **'n'** Net mode: Plumbed mode only. Intended for machines with water supply selector only.



Important:

Machines equipped with the water inlet selector tap are intended to work at **'t'** on 'TANK' (pour over) position and **'n'** on 'TAP' (plumbed) position. The automatic water reservoir dual function **'d'** is not available on these models and it will work like **'t'** 'TANK ONLY'..

Note:

If A.01 is set to **'n'** (Net mode), A.02 an A.03 will be disabled.

· A.02 – Water tank filling time-out alarm

To change the machine's water tank filling time-out alarm, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'A.02' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the water tank filling time out. 15s is set by default.
4. After 5s the display will go back the service programming menu.

Note:

This setting allows the user to finish the current shot when the tank sensor detects that the levels is lower than the 'Min'.

· A.03 – Water tank filling delay

To change the machine's water tank filling delay, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'A.03' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the water tank filling delay. 15s is set by default.
4. After 5s the display will go back the service programming menu.

Note:

This setting allows to refill the tank extra Xs since the tank level sensor detects that the 'Min' level has been reached.

SERVICE PROGRAMMING 1B

· h.02 – Temperature units

To adjust the machine's temperature units, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'h.02' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the temperature units: ºC or ºF. ºC is set by default.
4. After 5s the display will go back the service programming menu.

· Kp, Kd and Ki parameters

If it is ever necessary to adjust the steam boiler heating algorithm follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'Kp', 'Kd' or 'Ki' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 to adjust settings up or down.
4. After 5s the display will go back the service programming menu.

· Kb – Steam boiler PID control band

If it is ever necessary to adjust the steam boiler PID control band, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'Kb' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 to adjust the setting up or down. 5ºC set by default.
4. After 5s the display will go back the service programming menu.

· E – Display temperature offset

To adjust the machine's display temperature offset, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When 'E' is shown on the display, enter by pressing K3.
3. Within 5s, select with K2 and K3 the offset units.
4. After 5s the display will go back the service programming menu.

i Note:

This parameter will affect only the temperature shown on the display. It will be subtracted from the actual temperature of the steam boiler: Temp. Display = Temp. Boiler - Offset. This will allow the user to display an approximate extraction temperature on the screen. For example: Temp. Boiler = 118ºC and Offset = 24ºC, then Temp. Display = 118 - 24 = 94 ° C.

SERVICE PROGRAMMING 2B

· User interface 2B

The ONE 2B machines are equipped with a programmable 'Barista' interface that allows users to set or adjust the following features and parameters with guidance from the digital display:

- Power off/on (without using the main switch).
- GSP (Gradual Soft Preinfusion) settings. (Rotary Pump versions only).
- Adjust the steam and group boiler temperatures.
- ECO & Stand-by mode settings (set up energy saving mode timers).
- Heating elements On/Off.
- Clock and Date settings (adjust current time and date).
- Shot screen time.
- Counters (volume of water cycled, service intervals, and number of coffees dispensed, etc.).
- Temperature units
- Date format
- USB interface (LFPP version only)
- Barista knob resolution (LFPP version only)

Selection buttons K1 - K2 - K3 - K4

· Stand-by status (OFF)

To put the machine on electronic Stand-by mode (OFF), just press (K1) for 5s until message 'OFF' is shown on the display.

On this mode, the heating elements will remain disconnected.

To exit from the Stand by mode, just press (K1) to come back to the main screen.

SERVICE PROGRAMMING 2B

· Factory preset

To restore the machine to factory default programming settings, follow the steps below:

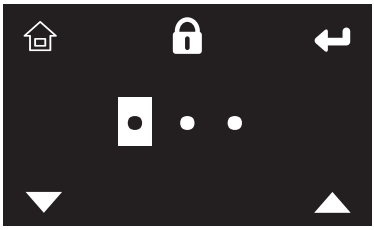
1. Turn the machine off at the main power switch.
2. Press and hold K1+K2+K3+K4 simultaneously while turning the main power switch back on a wait 10s. The display will show “Preset done” and all previously customized settings will be erased and replaced with the factory settings.
3. Cycle the machine off and on once more at the main power switch.

Note for LFPP models: After a preset is done, Barista and Recipe pressure profiling modes are disabled by default. Pressure profiling settings must be enabled on the service programming menu.

· Service menu – Access & browsing

To access the service programming settings, follow the steps below:

1. Put the machine on Stand-by (OFF) (see previous instructions).
2. Press K2 (‘T’ icon) to access to the service menu. The password is: 111.
3. Browse through the menu by pressing K2 (->). Access and adjust each setting by pressing K3 and/or K4.
4. Press K1 (home icon) to come back to Stand-by mode (OFF)



SERVICE PROGRAMMING 2B

· Programming home screen name

To change the machine's home screen name, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When home screen name setting is shown on the display, select with K3 and K4 each single letter and use K2 to accept and pass to the next one.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

· Enabling / Disabling ECO mode

To change the machine's home screen name, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When ECO mode setting is shown on the display, select with K3 and K4 buttons to scroll between enabled or disabled. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:
If ECO mode is disabled, ECO mode temperatures settings on service menu and ECO mode timers on Barista menu will be disabled.

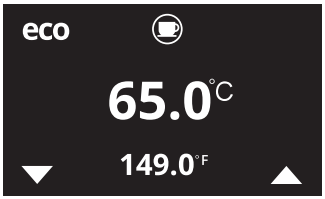
SERVICE PROGRAMMING 2B

· Adjusting ECO mode temperature setting

To change the machine's steam and group boilers ECO mode temperatures setting, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When ECO mode temperature setting is shown on the display, select with K3 and K4 buttons to choose submenus Group boiler or Steam boiler.
3. Adjust the ECO temperature values with K3 and K4 and accept with K2.
4. Press K1 (home icon) to come back to Stand-by mode (OFF)

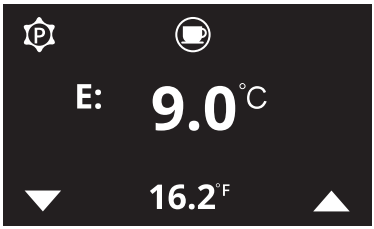
Note:
The ECO mode allows the machine to reduce its electrical demand by lowing the boilers temperatures to: 65ºC(149ºF) the group boiler and 105ºC(221ºF) the steam boiler.



· Programming group boiler dispensing temperature offset

To change the machine's group boiler temperature offset (the difference in temperature between the group boiler and group brewing head), follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When group boiler offset setting is shown on the display, enter with K3.
3. Select with K3 and K4 buttons to adjust the setting up or down. Accept with K2.
4. Press K1 (home icon) to come back to Stand-by mode (OFF)



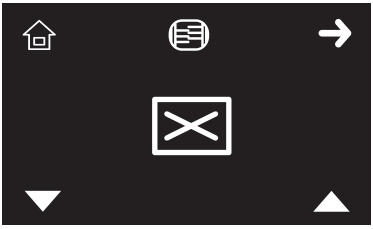
SERVICE PROGRAMMING 2B

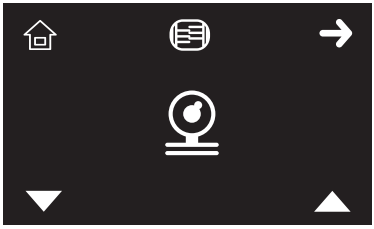
· Enabling / disabling Pressure Profiling

To enable or disable the Pressure Profiling menus, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Pressure Profiling setting is shown on the display, select with K3 and K4 buttons to scroll between enabled or disabled. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:
If Pressure Profiling mode is disabled, Pressure Profiling setting on Barista menu and Barista and Recipe modes will be disabled.

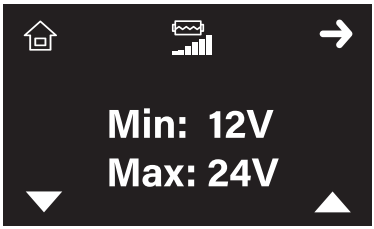




· Adjusting GSP (Gradual Soft Preinfusion) starting pump voltage

To adjust the initial and maximum pump voltage of the GSP function, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When GSP pump voltage setting is shown on the display, select with K3 and K4 buttons to adjust the initial and maximum GSP pump voltage values. Accept with K2.
   Default settings: Min 12V / Max 24V.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)



SERVICE PROGRAMMING 2B

· Programming filter and service/cleaning alarms

To adjust the alarms for the water filter/softener change or regeneration and service/cleaning, follow the steps below:

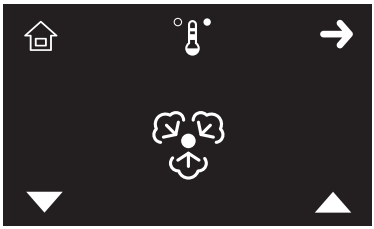
1. Enter the service programming and browse through the menu (see previous instructions).
2. When service alarm setting is shown on the display, select with K3 and K4 buttons to choose submenus of Liters alarms or Cycle counter alarm.
3. Adjust the counters alarms value with K3 and K4 and accept with K2.

Note:
To preset the partial counters, please refer to Barista menu instructions included in the User's Manual.

· Programming the boiler heating priority

To change the machine's boiler heating priority, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When boiler priority setting is shown on the display, select with K3 and K4 between group or steam boiler and use K2 to accept.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

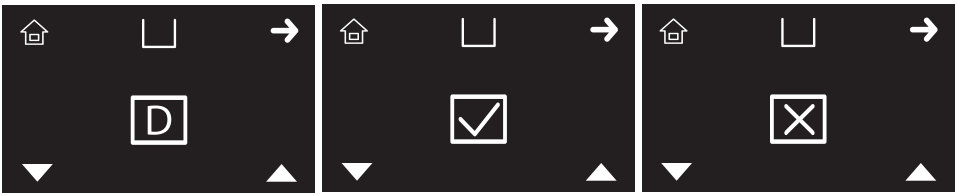


SERVICE PROGRAMMING 2B

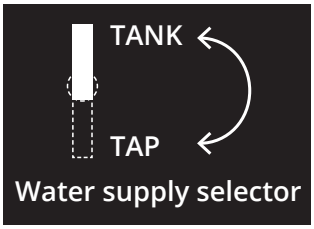
· Water supply mode

To select the water supply mode, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Water supply mode setting is shown on the display, select with K3 and K4 buttons to scroll between 'D' (Dual), '✓'(Tank) or '✕' (Net). Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)



- 'D' Dual mode: Automatic water reservoir refilling enabled if the machine is plumbed.
- '✓' Tank mode: Automatic water reservoir refilling disabled. Water reservoir supply only.
- '✕' Net mode: Plumbed mode only. Intended for machines with water supply selector only.



Important:
Machines equipped with the water inlet selector tap are intended to work at '✓' on 'TANK' (pour over) position or '✕' on 'TAP' (plumbed) position. The automatic water reservoir dual function 'D' is not available on these models and it will work like '✓' 'TANK ONLY'.

Note:
If Water tank alarms are disabled, water tank filling time-out and water tank filling delay parameters will be disabled as well.

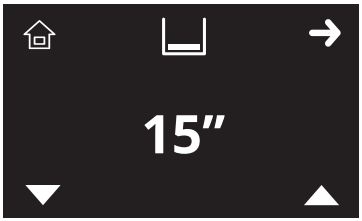
SERVICE PROGRAMMING 2B

· Adjusting water tank filling time-out

To change the machine's water tank filling time-out alarm, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Water tank filling time-out setting is shown on the display, select with K3 and K4 buttons to adjust the setting up or down. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:
This setting allows the user to finish the current shot when the tank sensor detects that the levels is lower than the 'Min'.

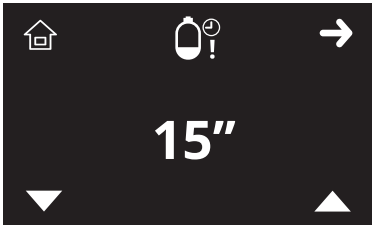


· Adjusting water tank filling delay

To change the machine's water tank filling delay, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Water tank filling delay setting is shown on the display, select with K3 and K4 buttons to adjust the setting up or down. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:
This setting allows to refill the tank extra Xs since the tank level sensor detects that the 'Min' level has been reached.



SERVICE PROGRAMMING 2B

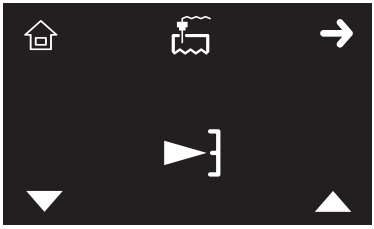
· Programming steam boiler level probe sensitivity

To change the machine's steam boiler water level probe sensitivity, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When level probe sensitivity setting is shown on the display, select with K3 and K4 buttons to scroll between Min(_), Med (-) and Max (¯) . Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:

By default, the level sensor's sensitivity is set at "Med", which should be adequate for almost all installations. Only in locations where the water quality is exceptionally pure (very low dissolved salts) should it be set to "Max".



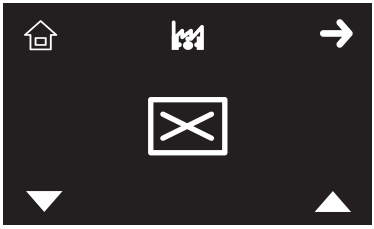
· Enabling / Disabling installation start-up program

To enable or disable the installation start-up, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Installation start up setting is shown on the display, select with K3 and K4 buttons to scroll between enabled or disabled. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:

If this setting is enabled, the installation start-up steps will be required the next time the machine is powered off and on again at the main switch.
This tool is intended for the event the machine is uninstalled and stored. The installation steps will ensure that the hydraulic system is full of water before the heating elements are enabled electronically.



SERVICE PROGRAMMING 2B

· Export / Import machine settings

To Export or Import the machine settings, follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Export / Import machine settings is shown on the display, select with K3 and K4 buttons to select between Export settings (📋↑) or Import settings (📋↓) via USB stick. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)

Note:

Export fuction creates a EXFACTO.txt file in the USB stick.
To copy and import the machine settings into another machine, the file must be renamed as IMFACTO.txt in the USB stick to enable the machine to read the import file.

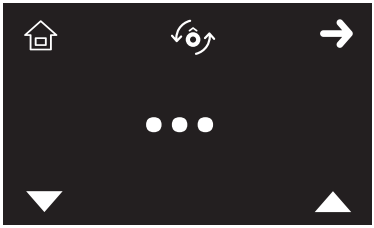
Important:

When importing settings, be sure that the software revision of the machine is the same that the machine where the settings where copied from.

· Programming service menu password

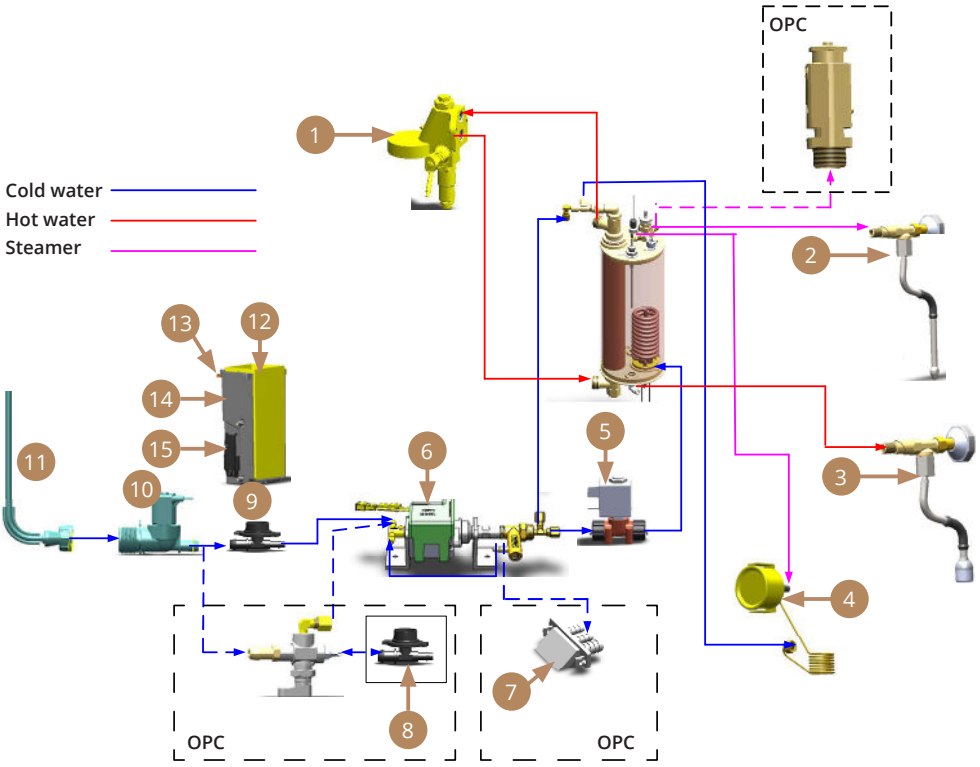
To change the password to access the service programming menu follow the steps below:

1. Enter the service programming and browse through the menu (see previous instructions).
2. When Password change setting is shown on the display, select with K3 and K4 buttons to set the new password. Accept with K2.
3. Press K1 (home icon) to come back to Stand-by mode (OFF)



HYDRAULIC DIAGRAMS

· ONE 1B PID VP

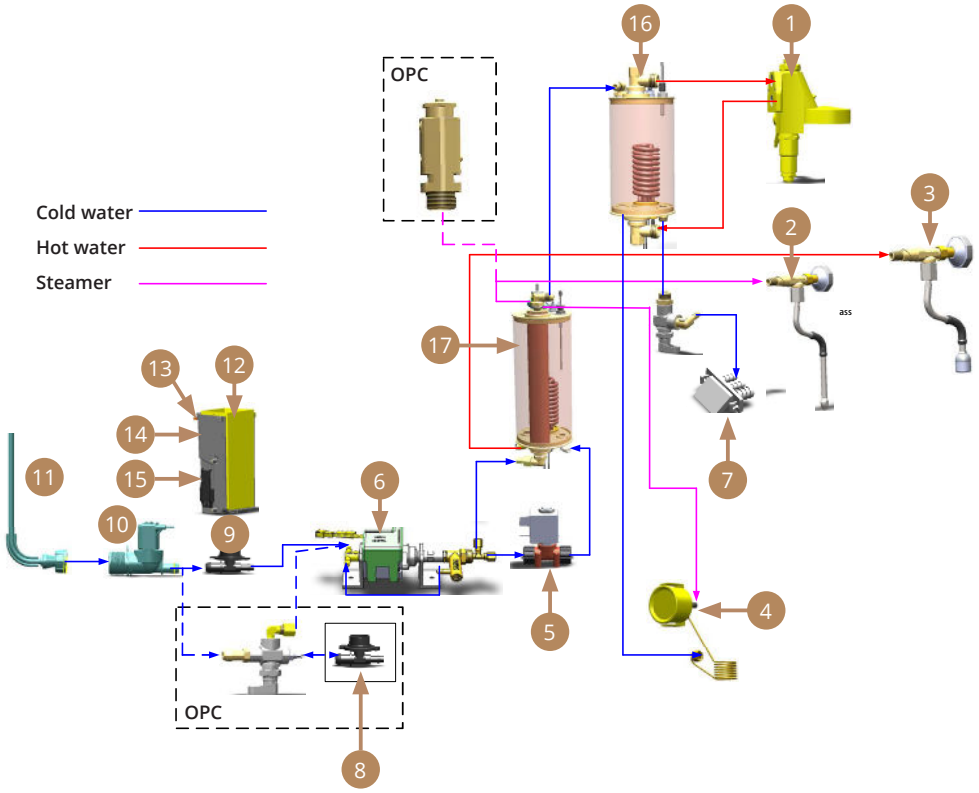


Pos.	Solution
1	Group
2	Steamer tap ass
3	Hot water tap ass
4	Manometer
5	Solenoid valve
6	Vibration pump
7	Drain water
8	Tank Mode
9	Tank Distributor

Pos.	Solution
10	Inlet Valve
11	Inlet Hose
12	Tank
13	Mini switch
14	Tank Divider
15	Capacitive

HYDRAULIC DIAGRAMS

· ONE 2B PID VP

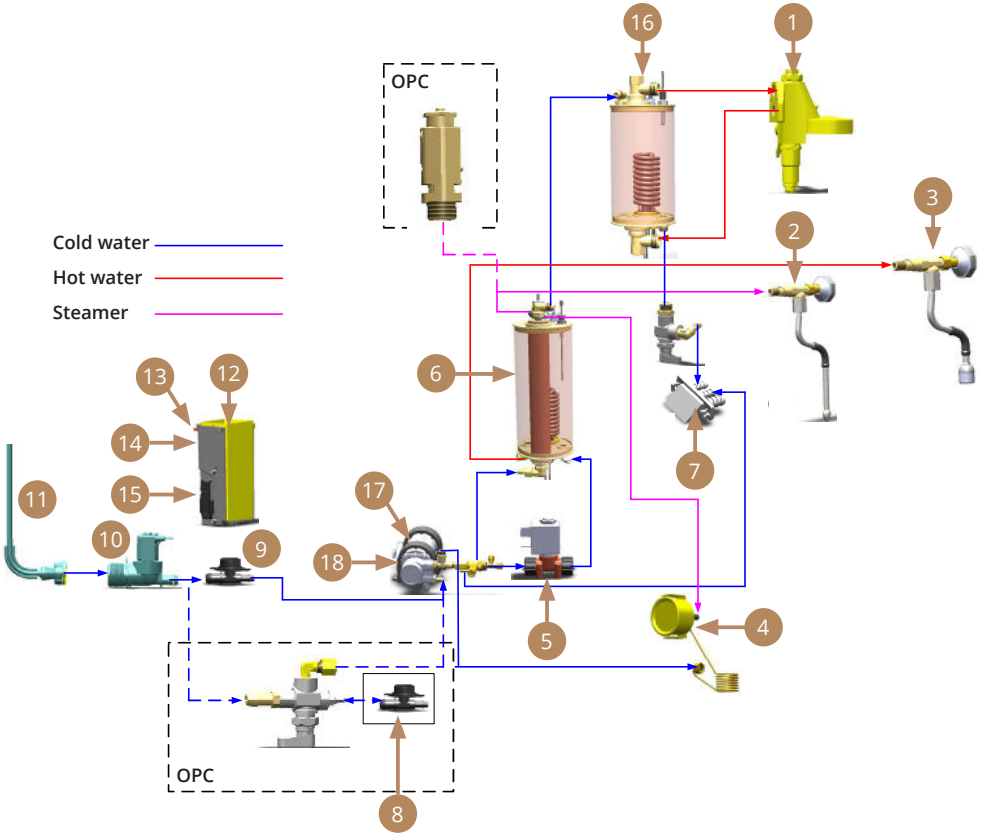


Pos.	Solution
1	Group
2	Steamer tap ass
3	Hot water tap ass
4	Manometer
5	Solenoid valve
6	Vibration pump
7	Drain water
8	Tank Mode
9	Tank Distributor

Pos.	Solution
10	Inlet Valve
11	Inlet Hose
12	Tank
13	Mini switch
14	Tank Divider
15	Capacitive
16	Coffee boiler
17	Steam boiler ass

HYDRAULIC DIAGRAMS

· ONE 2B PID RP-GSP

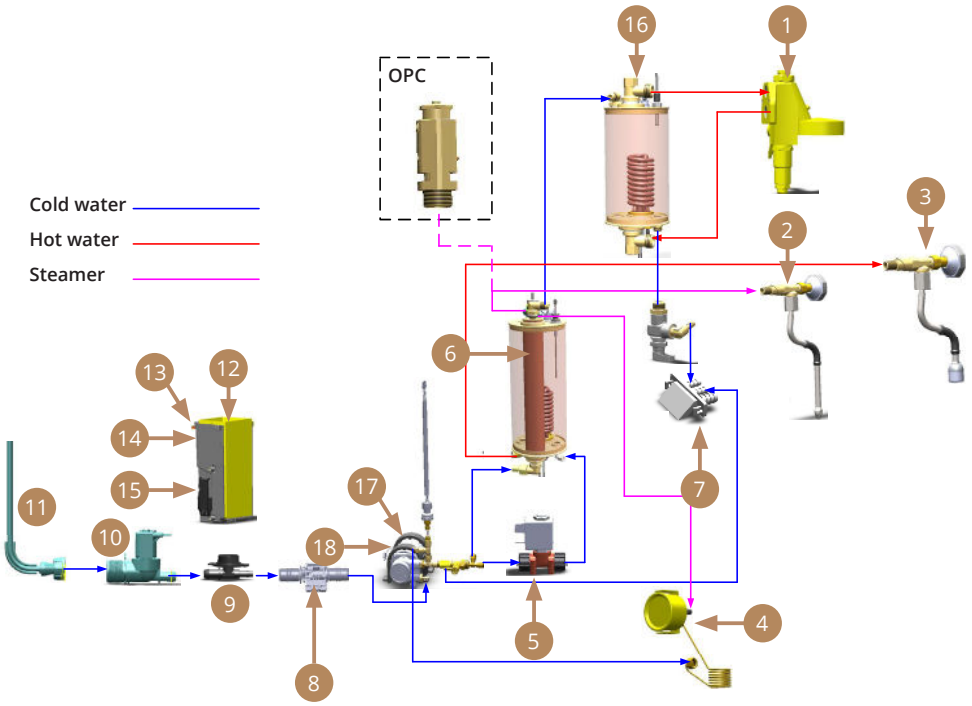


Pos.	Solution
1	Group
2	Steamer tap ass
3	Hot water tap ass
4	Manometer
5	Solenoid valve
6	Steam boiler ass
7	Drain water
8	Tank Mode
9	Tank Distributor

Pos.	Solution
10	Inlet Valve
11	Inlet Hose
12	Tank
13	Mini switch
14	Tank Divider
15	Capacitive
16	Coffee boiler
17	U pump block
18	Rotatory Pump

HYDRAULIC DIAGRAMS

· ONE 2B PID RP-LFPP



Pos.	Solution
1	Group
2	Steamer tap ass
3	Hot water tap ass
4	Manometer
5	Solenoid valve
6	Steam boiler ass
7	Drain water
8	Flowmeter
9	Tank Distributor

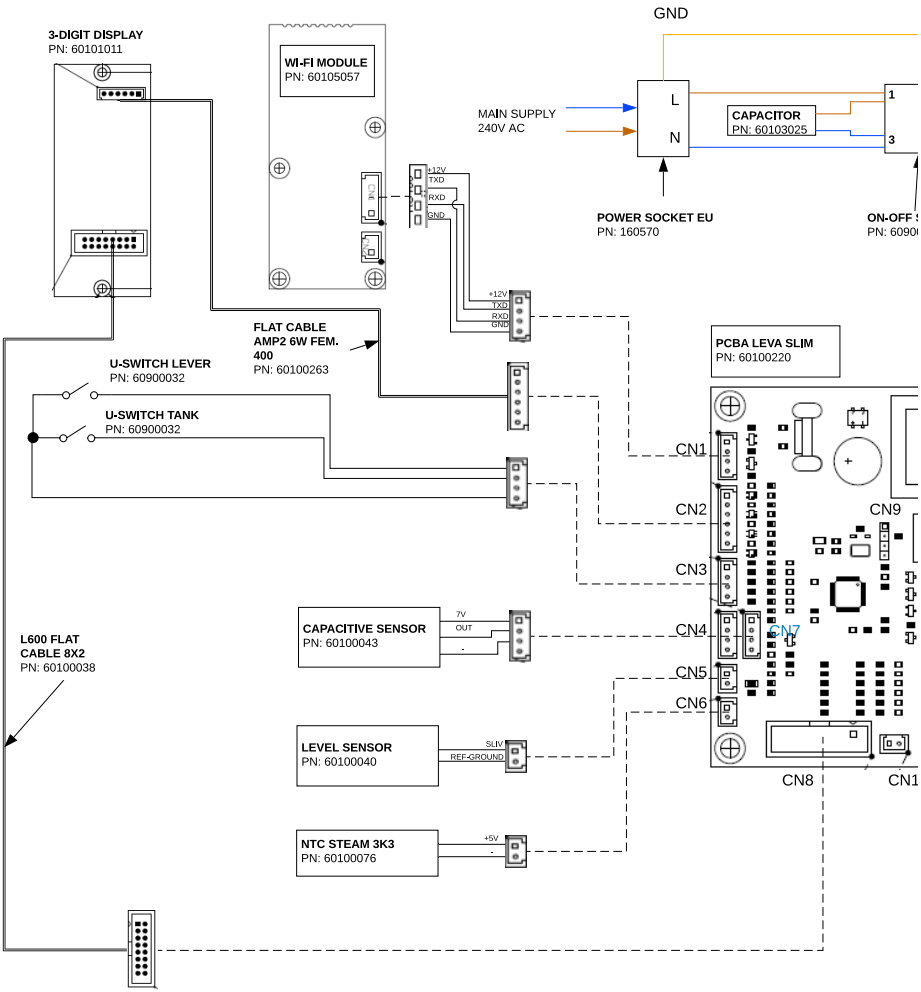
Pos.	Solution
10	Inlet Valve
11	Inlet Hose
12	Tank
13	Mini switch
14	Tank Divider
15	Capacitive
16	Coffee boiler
17	U pump block
18	Rotatory Pump

ELECTRICAL DIAGRAMS

· ONE 1B PID VP Dual - 220-240V

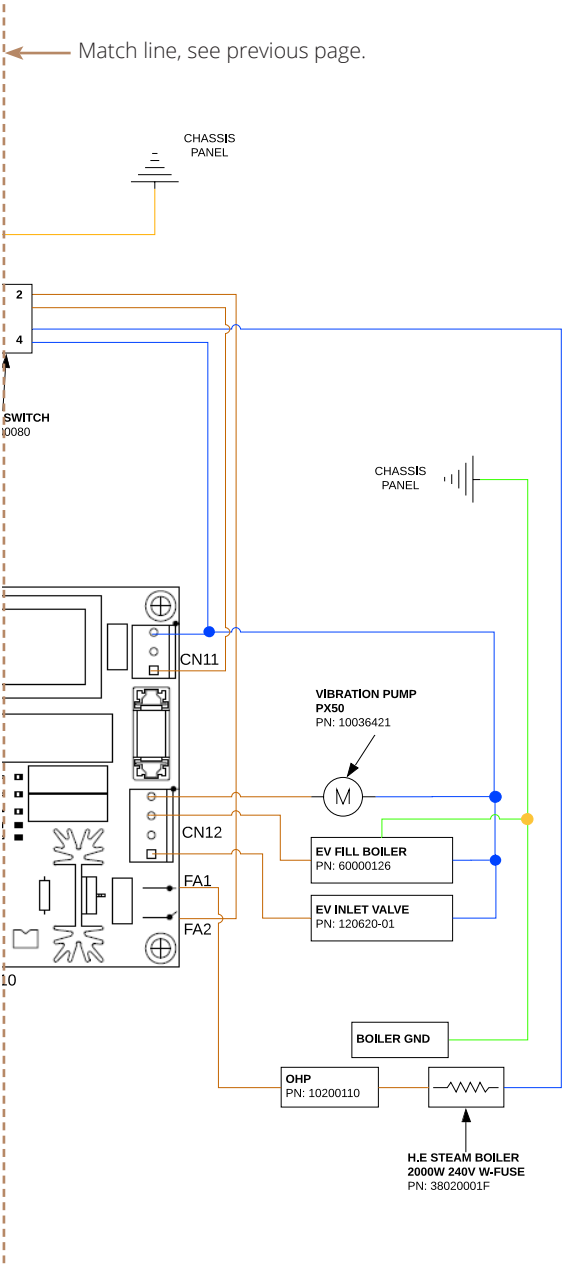
Match line, see next page.

ONE 1B PID VP WTN 240V



ELECTRICAL DIAGRAMS

· ONE 1B PID VP Dual - 220-240V

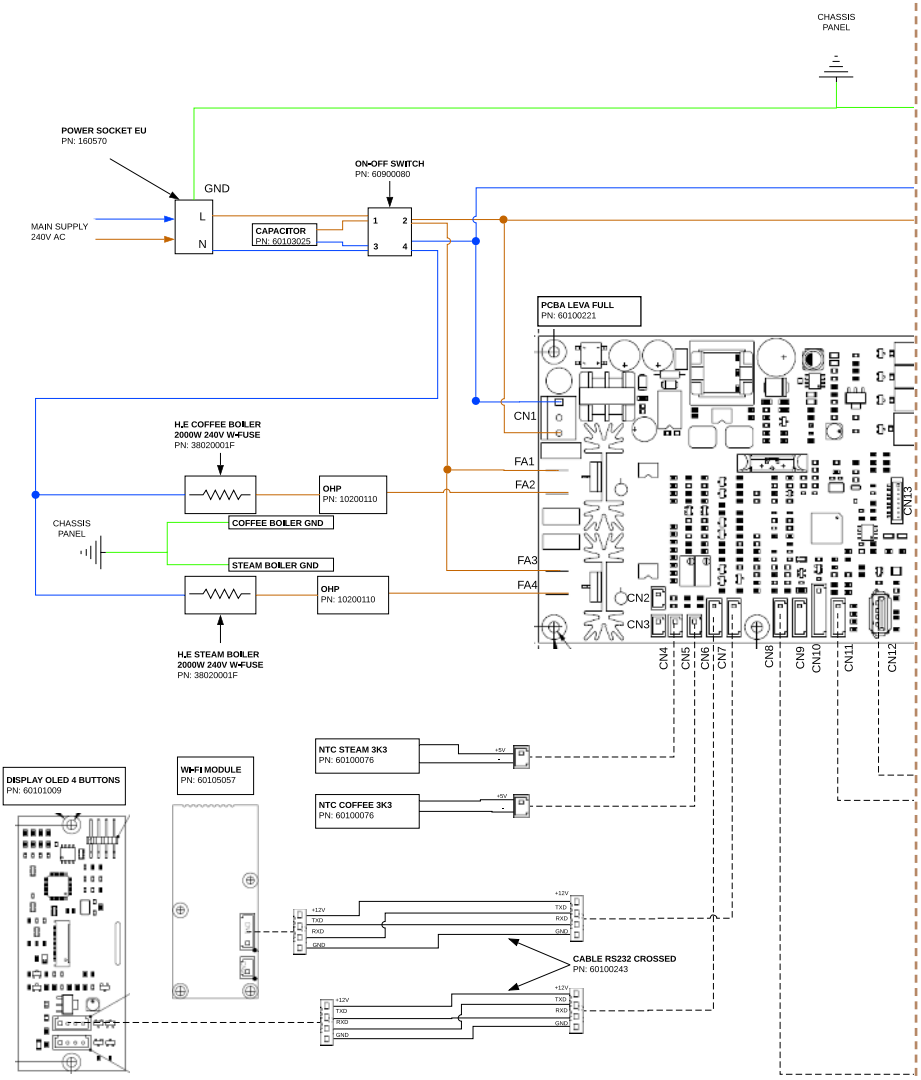


ELECTRICAL DIAGRAMS

· ONE 2B PID VP Dual - 220-240V

Match line, see next page.

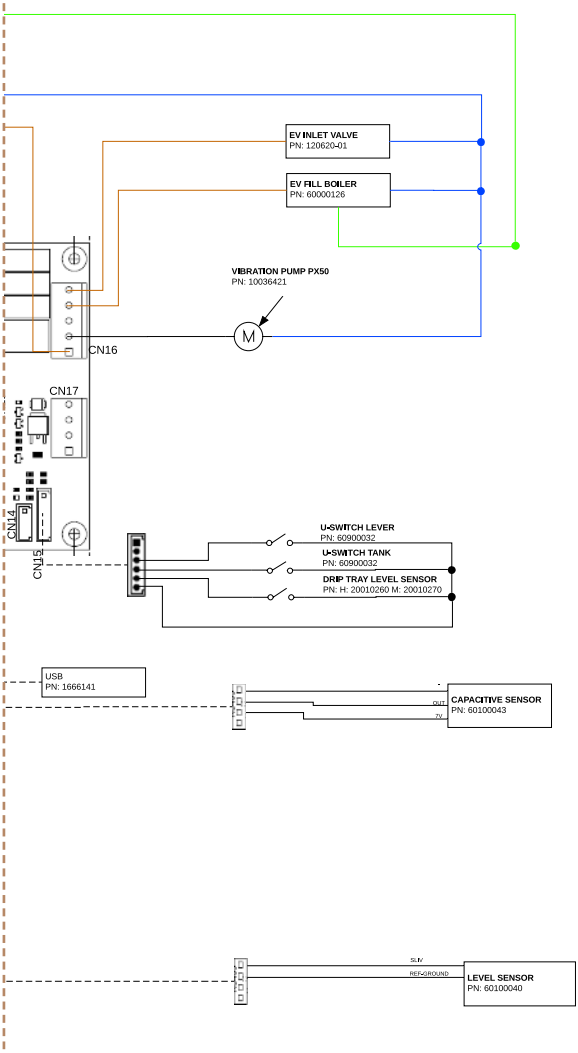
ONE 2B PID VP-WTN 240V



ELECTRICAL DIAGRAMS

· ONE 2B PID VP Dual - 220-240V

Match line, see previous page.

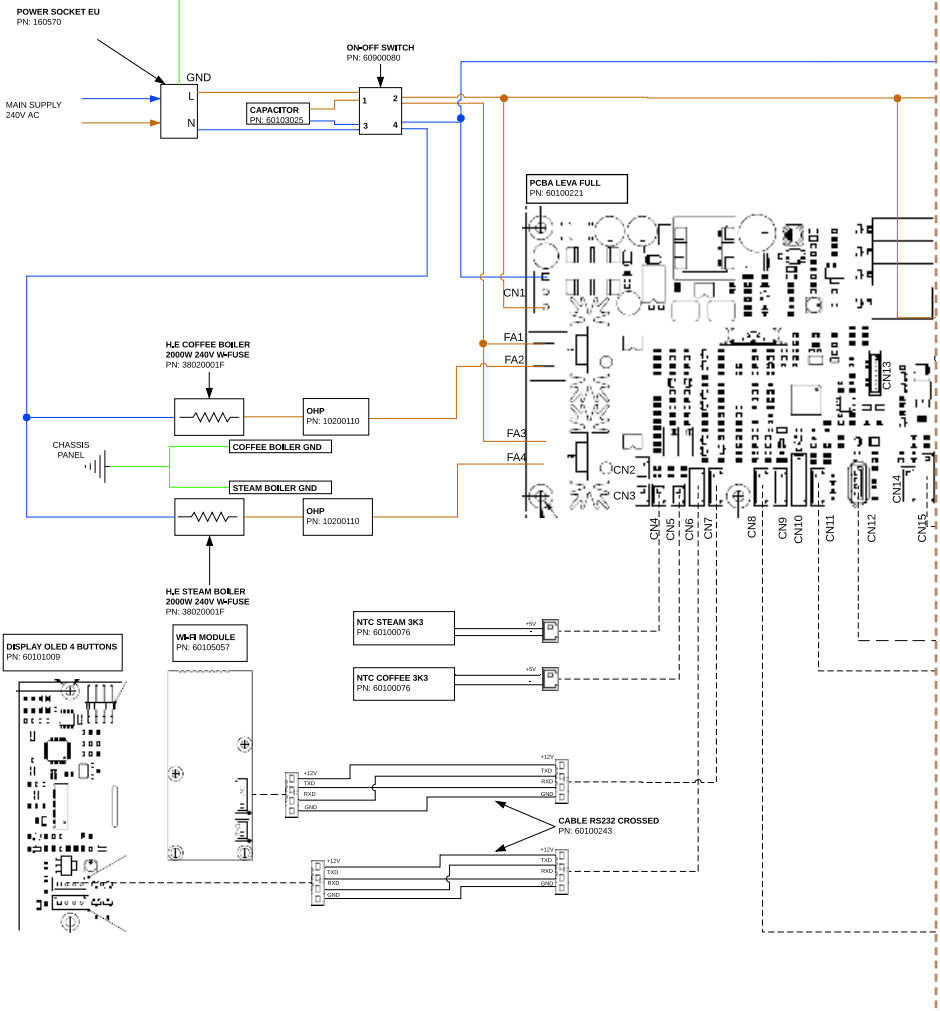


ELECTRICAL DIAGRAMS

· ONE 2B PID RP-GSP Dual - 220-240V

Match line, see next page.

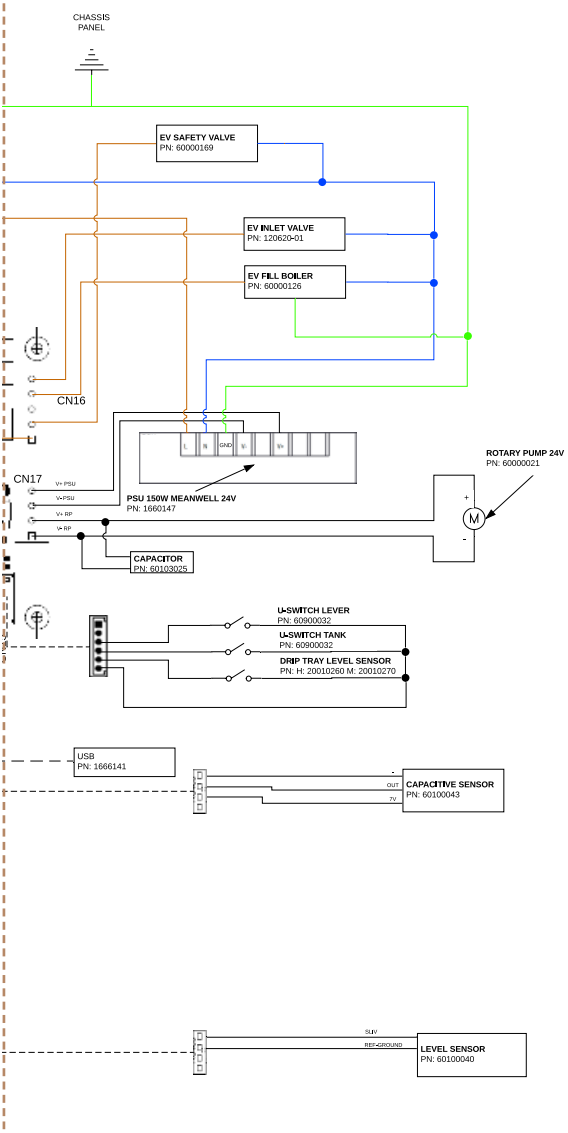
ONE 2B PID RP-WTN 240V



ELECTRICAL DIAGRAMS

· ONE 2B PID RP-GSP Dual - 220-240V

Match line, see previous page.

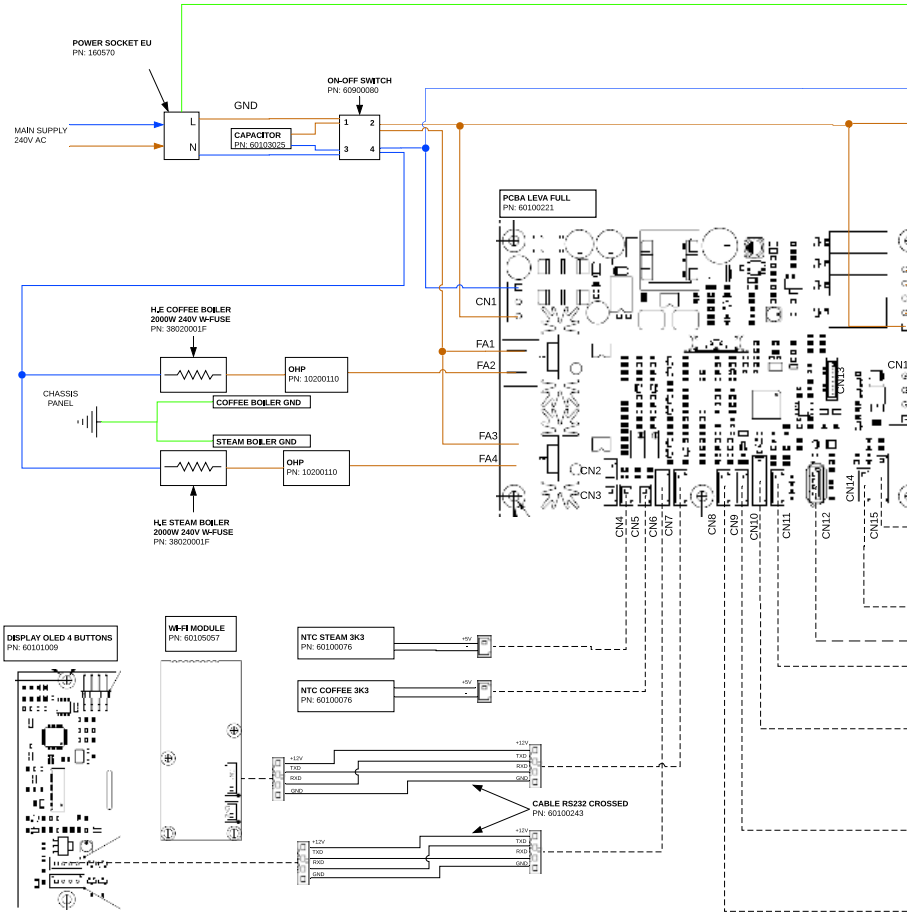


ELECTRICAL DIAGRAMS

· ONE 2B PID RP-LFPP Dual - 220-240V

Match line, see next page.

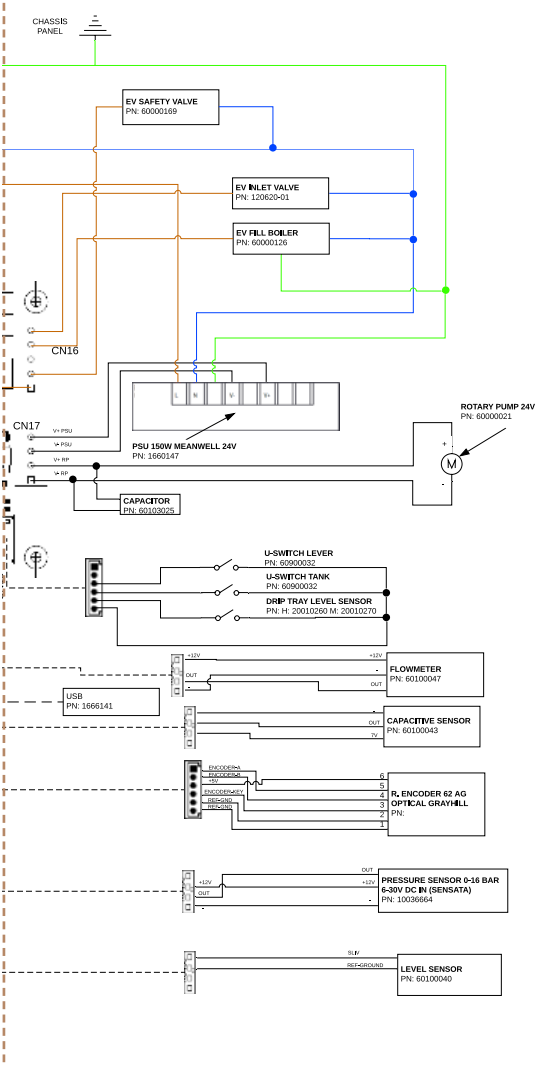
ONE PRO LFC 2B PID RP-WTN 240V



ELECTRICAL DIAGRAMS

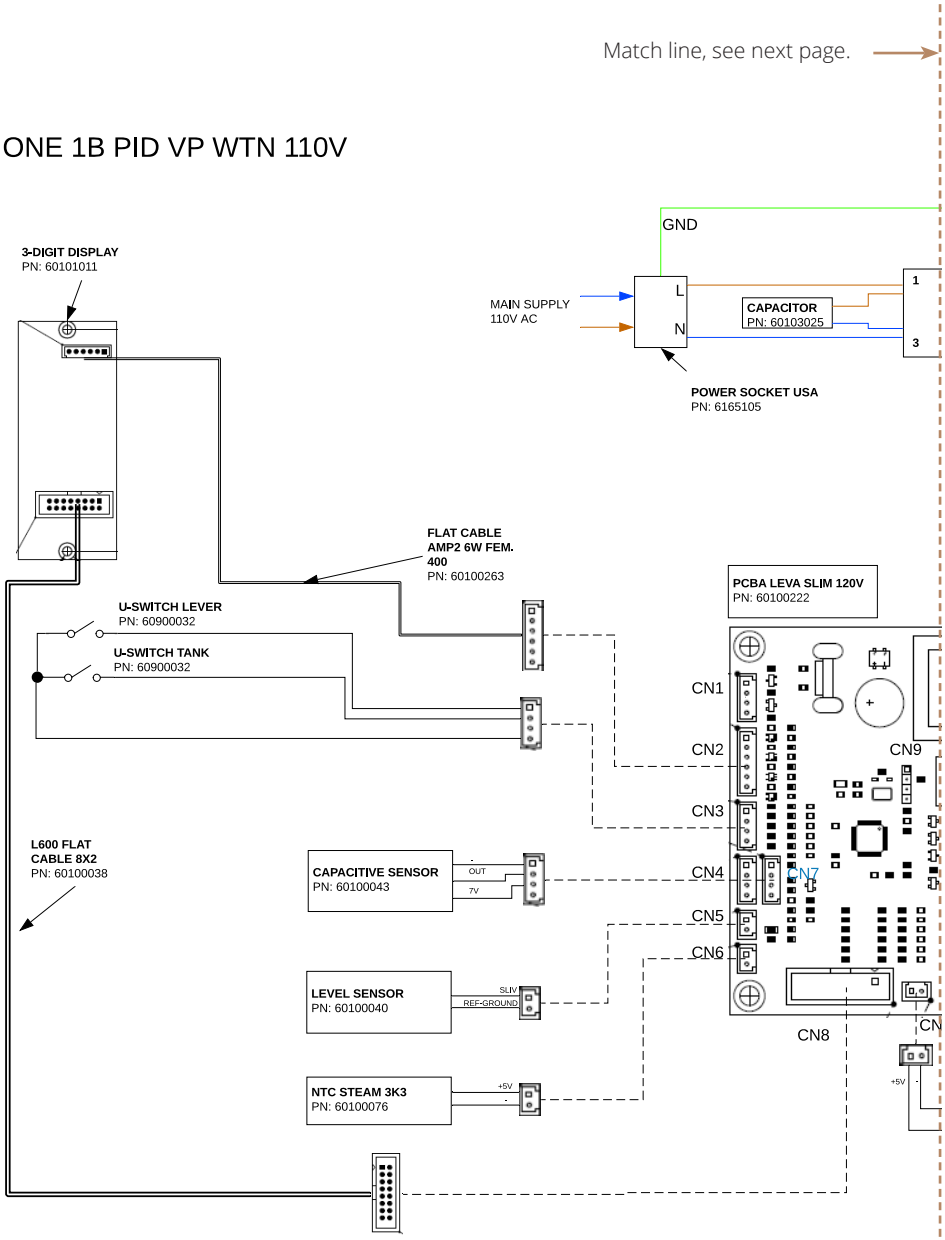
· ONE 2B PID RP-LFPP Dual - 220-240V

Match line, see previous page.



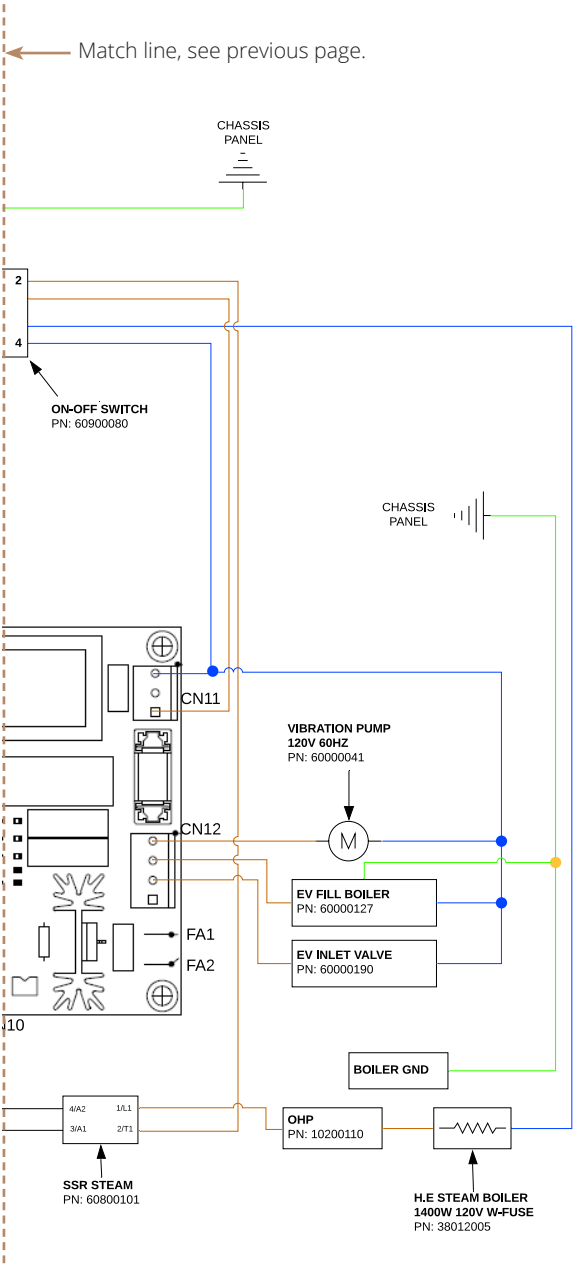
ELECTRICAL DIAGRAMS

· ONE 1B PID VP - 110-127V



ELECTRICAL DIAGRAMS

· ONE 1B PID VP - 110-127V

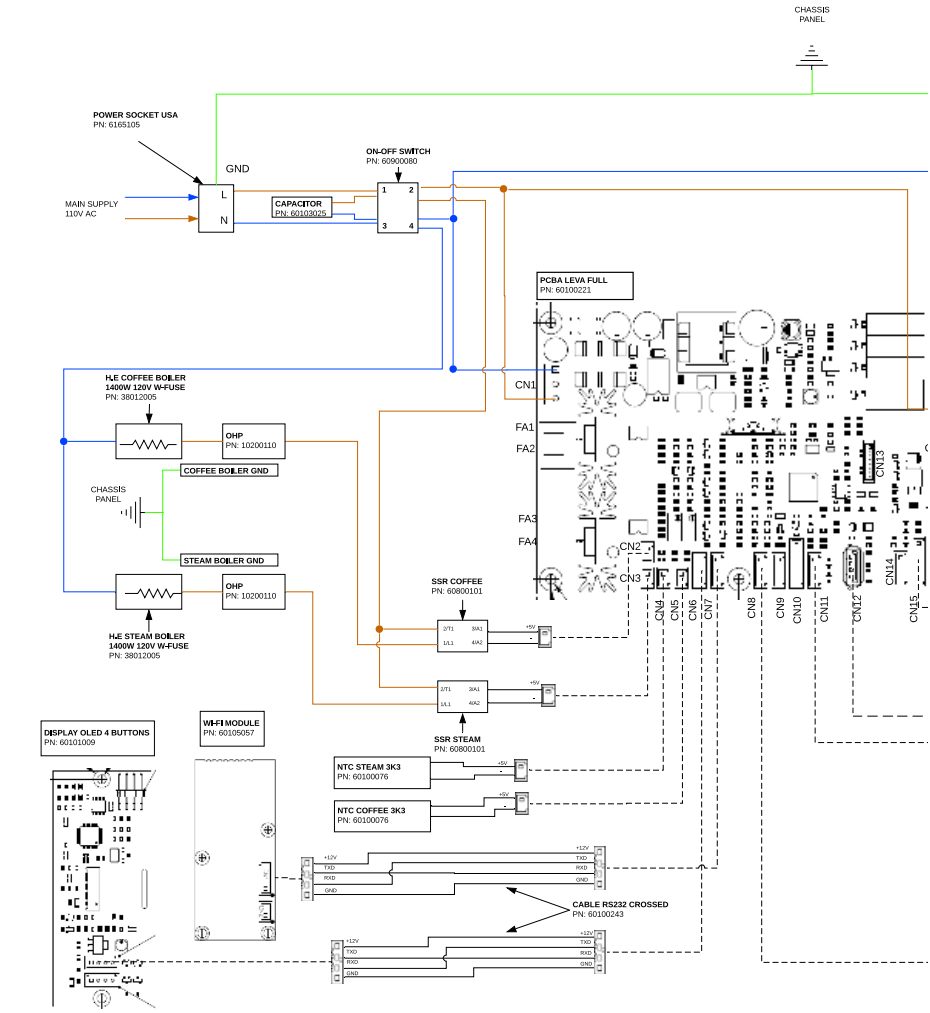


ELECTRICAL DIAGRAMS

· ONE 2B PID VP - 110-127V

Match line, see next page.

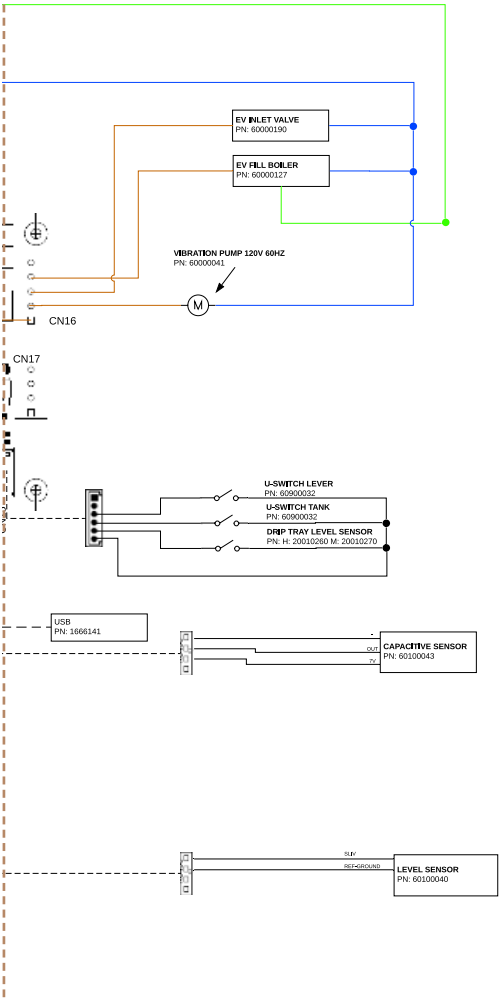
ONE 2B PID VP-WTN 110V



ELECTRICAL DIAGRAMS

· ONE 2B PID VP - 110-127V

Match line, see previous page.

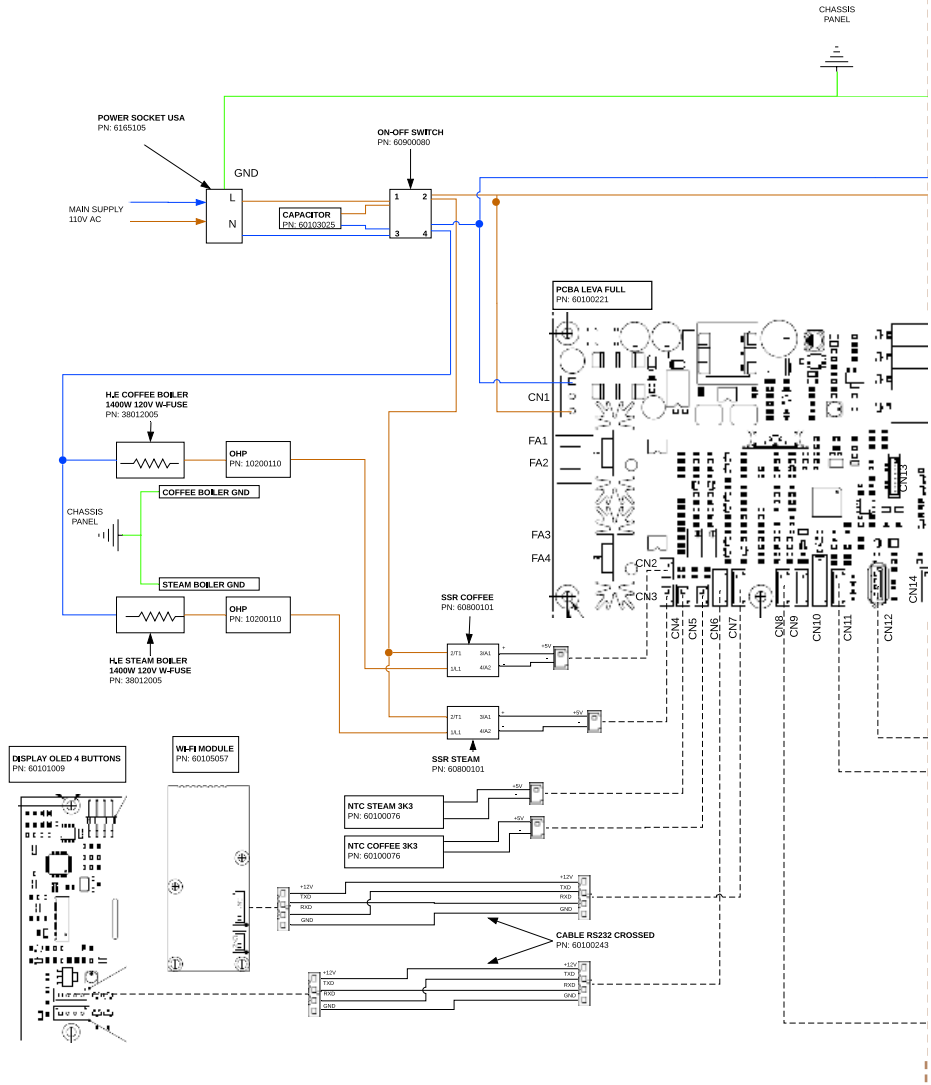


ELECTRICAL DIAGRAMS

· ONE 2B PID RP-GSP - 110-127V

Match line, see next page.

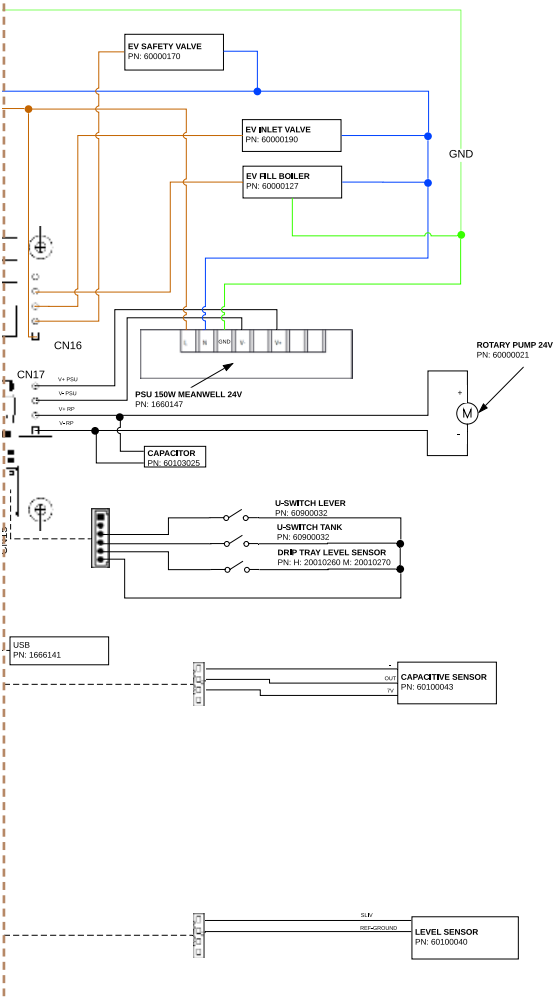
ONE 2B PID RP-WTN 110V



ELECTRICAL DIAGRAMS

· ONE 2B PID RP-GSP - 110-127V

Match line, see previous page.

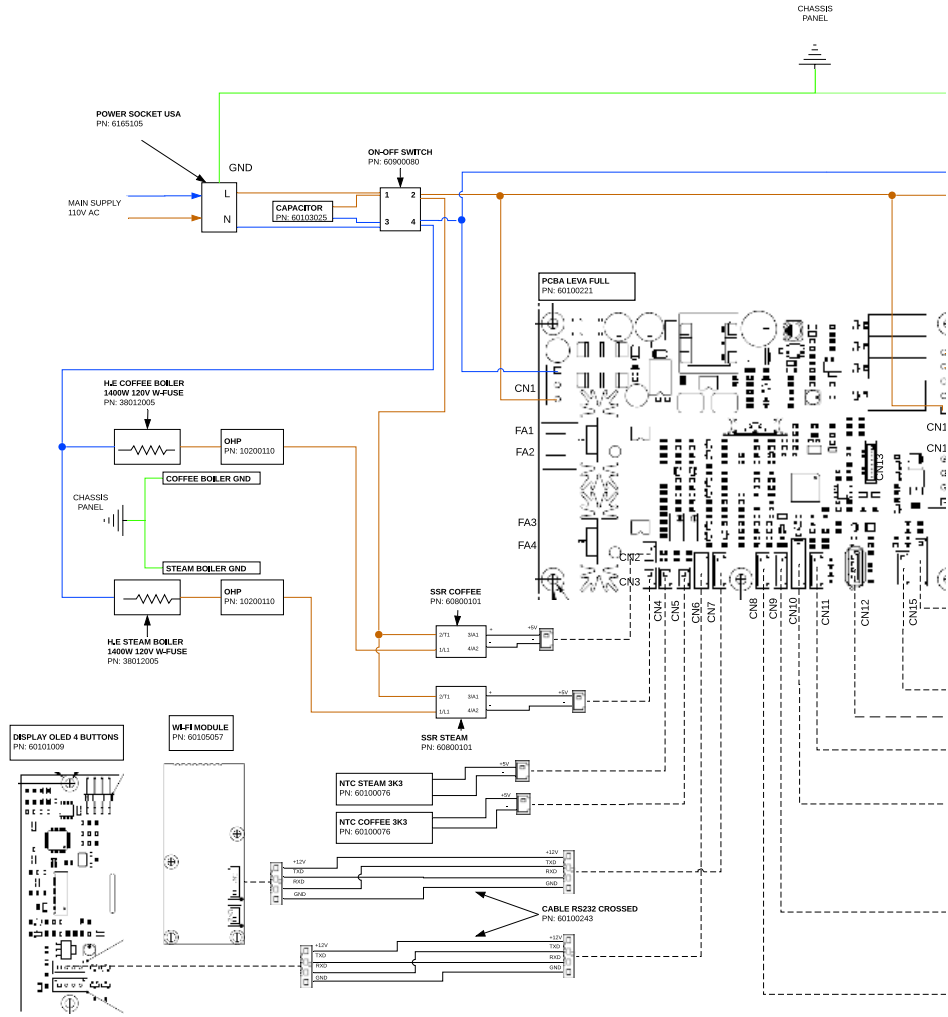


ELECTRICAL DIAGRAMS

· ONE 2B PID RP-LFPP Dual - 110-127V

Match line, see next page.

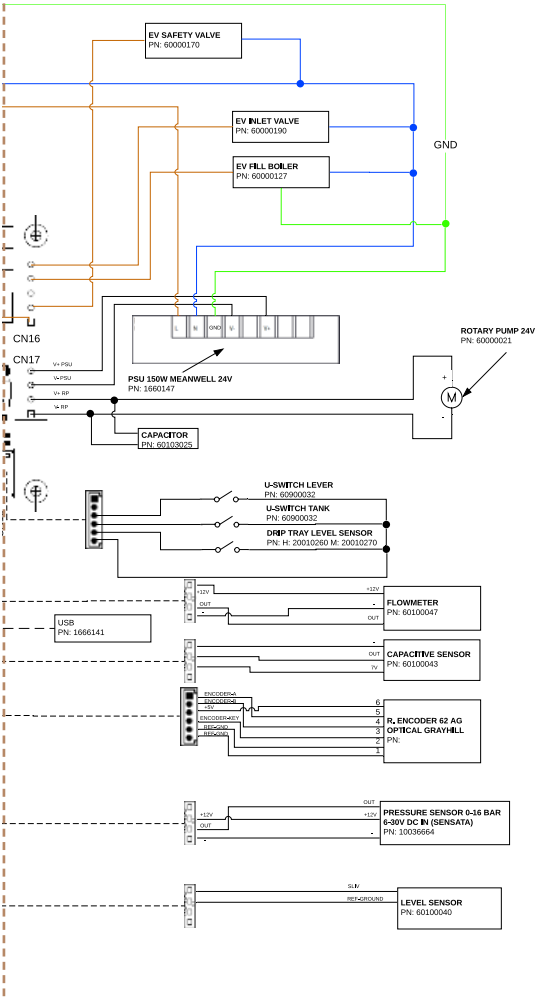
ONE PRO LFC 2B PID RP-WTN 110V



ELECTRICAL DIAGRAMS

· ONE 2B PID RP-LFPP Dual - 110-127V

Match line, see previous page.



MACHINE ALERTS

· Alarms & Warnings

To alert users that routine service of the machine is due or against a situation that could possibly cause damage to the machine, ONE has the following alerts programmed into its software:

1B versions

Error Code	Alarm Name	Warning / Alarm	Solution
A1	NTC is short-circuited	Alarm	Call a service technician to replace it
A2	NTC is not connected	Alarm	Call a service technician to replace it
A4	Steam Boiler FillingUp timeout	Alarm	"Turn the main switch off and on again. Check that the machine is receiving water."
A7	Drink too long	Warning	Pull the group lever down to remove the alarm
A10	Empty tank	Alarm	Refill the tank.
A11	Water tank not in place	Alarm	Put the tank in the correct position

2B versions

Error Code	Alarm Name	Warning / Alarm	Solution
	Steam boiler sensor AL1 Temp. Probe shortcircuited AL2 Temp. Probe unconnected"	Alarm	Call a service technician to replace it
	Group boiler sensor AL1 Temp. Probe shortcircuited AL2 Temp. Probe unconnected"	Alarm	Call a service technician to replace it
	Steam boiler FillingUp timeout	Alarm	Turn the main switch off and on again. Check that the machine is receiving water."
	Empty tank	Alarm	Refill the tank.
	Water tank not in place	Alarm	Put the tank in the correct position
	Drip tray full	Alarm	Empty the drip tray
	Maintenance / Cleaning (if enabled)	Warning (Blinks)	Do the maintenance / Cleaning. Reset counter on Barista menu.
	Filter reset	Warning (Blinks)	Replace water filter. Reset counter on Barista menu.

TROUBLESHOOTING

· Machine faults

Problem	Possible cause	Solution
The machine does not start up when turned on	The plug is not correctly inserted into the power socket	Check that the plug is correctly inserted and that the power socket is operational.
	The circuit breaker and/or differential are disconnected.	Check that they are connected.
	The cable and/or plug are damaged.	Call service personnel to replace them.
The steam wand does not dispense steam	The steam wand is clogged with dried milk.	Clean the wand and, if necessary, remove the nozzle and unclog it using a pin or needle.
Water is found underneath the machine	The drainage tube is blocked with used grounds/rubbish.	Clean the drainage tube.

· Brewing faults

Problem	Possible cause	Solution
Coffee dispensing is too fast:	The coffee grind is too coarse.	Switch to a finer grind of espresso.
Coffee dispensing is too slow:	The coffee grind is too fine.	Switch to a coarser grind of espresso.

· Limescale faults

Problem	Possible cause	Solution
Coffee dispensing temperature is too cold:	Heat-exchanger outlet pipes are clogged with limescale.	Turn of the machine at the switch and contact a technician to make needed repairs.
Brewing groups do not dispensing water:	Water system is clogged with limescale.	Turn of the machine at the switch and contact a technician to make needed repairs.

For the warranty to be valid the conditions for maintenance must have been followed according to our instructions, proper precaution has been made and warranty claim been issued without delay.

The affected equipment may not be used during awaiting service if there is any risk that the damage or defect would worsen.

The warranty will not cover consumption supplies such as glassware, normal maintenance such as cleaning of filters, contaminations in water, lime, incorrect voltages, pressure or adjustment of water amounts.

The warranty will not cover damages of defects caused by incorrect handling and operation of the appliance.

For service

Please contact your dealer

Your Dealer

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