FAGOR

Dishwashing
E-VO Generation

ONNERA GROUP

INSTALLATION SPECS & GUIDELINESS

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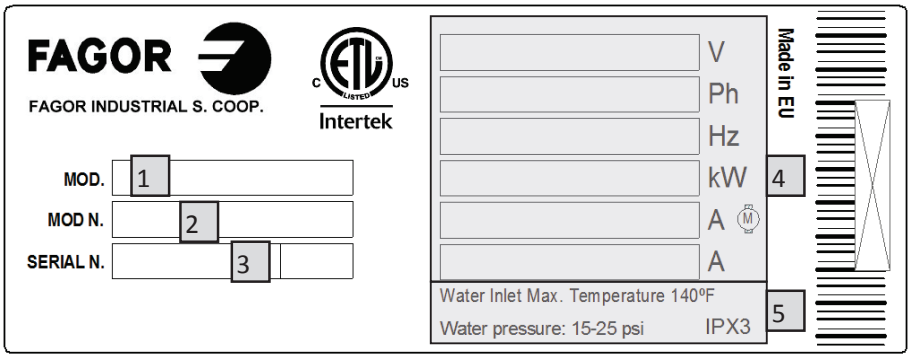
DATA PLATE



1: APPLIANCE MODEL NAME

2: APPLIANCE REFERENCE

3: SERIAL NUMBER + MANUFACTURE DATE

4: ELECTRICAL SPECIFICATIONS

5: WATER INLET SPECIFICATIONS

These details should be quoted when the technical service is called.

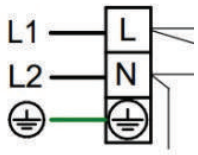
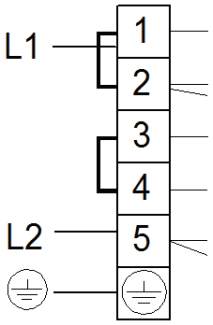
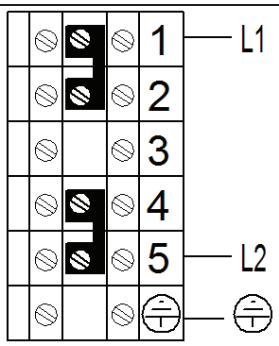
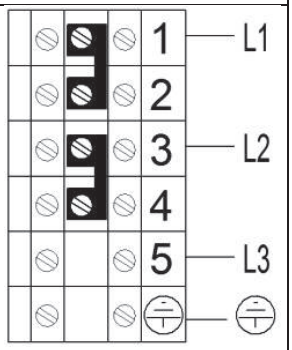
7.1 SPECIFICATIONS

MODEL	RACKS PER HR.	DISHES PER HR.	GLASSES PER HR.	WASH TANK (gal)	GALLONS PER CYCLE	INLET MAX. TEMP.	FLOW RINSE PRESSURE
COP-174W	60	1500	2160	7.5	0.53	140 ºF	PRESSURE PUMP (inlet 7 – 58 psi)
COP-504W	37	925	1332	5.4	0.53		
CO-502W	30	750	1080	5.4	0.6		25psi ± 5psi
CO-402W	22	242	352	4	0.6		

MODEL	WASH PUMP MOTOR	MIN. TEMP.		HEATING ELEMENTS		OPERATING CYCLE TIME (s)			
		WASH	RINSE	WASH TANK (kW)	BOILER (kW)	WASH	DWELL	RINSE	TOTAL
COP-174W	(2) 1 hp	162°F	180°F	4.75	12.75	35/55/100	5	15	55/75/120
COP-504W	1 hp	162°F		3	5.8/3.9/2.9	70/100/160			90/120/180
CO-502W	1 hp	162°F		3	2.9	70/100/160			90/120/180
CO-402W	1/3 hp	162°F		2.15	2.9	70/100/160			90/120/180

MODEL	WIDTH	DEPTH	HEIGT	MAX CLEARANCE FOR DISHWARE	RACK	SHIPPING WEIGHT (lbs)	SHIPPING VOLUME (cu ft)
COP-174W	26”	30 ½”	60 5/8”	17 3/8”	20” x 20”	356	22.5
COP-504W	23 5/8”	23 5/8”	32 11/16”	14 3/16”		170	15
CO-502W	23 5/8”	23 5/8”	32 11/16”	14 3/16”		170	15
CO-402W	20 7/8”	26 ¾”	35	10 5/8”	16” x 16”	105	10

MODEL	CONNECTION TYPE	Voltage (V)	Total Load (A)	Total Power (kW)	Pump Load (A)	Pump Power (kW)	Tank Power (kW)	Boiler Power (kW)
COP-174W	208-240V	208V	42,18	14,48	2 x 2,36	2 x 0,49	3,68	9,81
	60Hz	220V	44,61	16,19	2 x 2,50	2 x 0,55	4,12	10,98
	3Ph	240V	48,66	19,27	2 x 2,72	2 x 0,65	4,90	13,07
COP-174W Boiler & Tank 2/3 Power	208-240V	208V	47,97	9,98	2 x 2,36	2 x 0,49	2,45	6,54
	60Hz	220V	50,74	11,16	2 x 2,50	2 x 0,55	2,74	7,32
	1Ph	240V	55,35	13,28	2 x 2,72	2 x 0,65	3,27	8,71
COP-504W Boiler Full Power	208-240V	208V	15,07	5,07	2,36	0,49	2,29	4,58
	60Hz	220V	15,94	5,67	2,50	0,55	4,12	5,12
	3Ph	240V	17,39	6,75	2,72	0,65	4,90	6,10
COP-504W Boiler Full Power	208-240V	208V	24,38	5,07	2,36	0,49	2,29	4,58
	60Hz	220V	25,78	5,67	2,50	0,55	4,12	5,12
	1Ph	240V	28,13	6,75	2,72	0,65	4,90	6,10
COP-504W Boiler 2/3 Power	208-240V	208V	17,04	3,54	2,36	0,49	2,29	3,05
	60Hz	220V	18,02	3,96	2,50	0,55	4,12	3,42
	1Ph	240V	19,66	4,72	2,72	0,65	4,90	4,07
COP-504W Boiler Half Power	208-240V	208V	13,37	2,78	2,36	0,49	2,29	2,29
	60Hz	220V	14,14	3,11	2,50	0,55	4,12	2,56
	1Ph	240V	15,43	3,70	2,72	0,65	4,90	3,05
CO-502W	208-240V	208V	13,37	2,78	2,36	0,49	2,29	2,29
	60Hz	220V	14,14	3,11	2,50	0,55	4,12	2,56
	1Ph	240V	15,43	3,70	2,72	0,65	4,90	3,05
CO-402W	208-240V	208V	12,03	2,50	1,02	0,21	1,64	2,29
	60Hz	220V	12,73	2,80	1,08	0,24	4,12	2,56
	1Ph	240V	13,88	3,33	1,18	0,28	4,90	3,05

CO-402W	CO-502W	COP-174W	
			
208-240V, 60Hz 1Ph	**208-240V, 60Hz 1Ph**	**208-240V, 60Hz 1Ph** Boiler & Tank 2/3 Power	**208-240V, 60Hz 3Ph**

BRIDGE

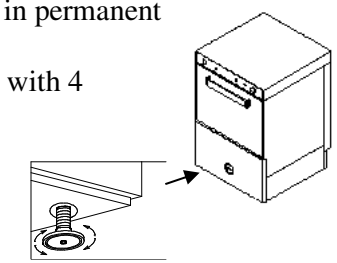
Quick Installation Guide

CO-402W CO-502W / COP-504CW

All Plumbing and Electrical Connections must be made by a qualified installer in accordance with your state and local codes!

First — Level Dishwasher

- Place Dishwasher in permanent location
- Level Dishwasher with 4 leveling feet
- Level front to back and side to side



Second — Hot Water Connection

- Min. 140˚ F (60˚C) @ 20 psi flow pressure
- Use 5’ flexible water supplied hose (Fig. 1)
- Install filter and gasket supplied

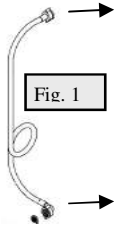


Fig. 1

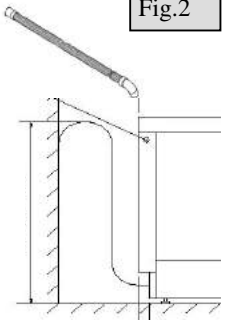
To Wall:
Straight side + filter 3/4” fitting (3/4” garden hose adapter supplied if needed)

To Dishwasher:
90˚ side plus gasket

Third — Drain Hook Up

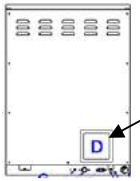
- Open Drain required
- 1-1/2” minimum I.P.S.
- Use grey flex drain supplied (Fig. 2). Clamp it, so remains in place.
- Max. Drain Height:
  AD-48/64W - 25-1/2”
  AD-72W - 10”

Fig.2



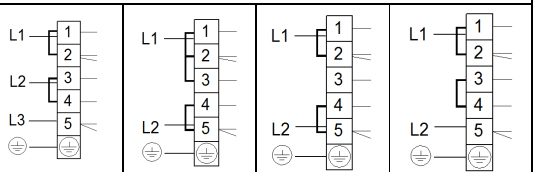
Fourth — Electrical Connection

- Remove back panel to access to terminal block (Fig. 3)
- Check Service Manual to verify Voltage and Phase.
- Verify Terminal Block Connection. When power cord is supplied, verify the connection has not loosened upon shipment.
- Check Amps Consumption on Service Manual to size breaker correctly.
- Replace the back panel. Careful not pull out any wires.
- Write the Model and Serial number in the manual and keep in a safe place.



Terminal block cover

COP-504W



208-240V, 60Hz 3Ph	208-240V, 60Hz 1Ph	208-240V, 60Hz 1Ph	208-240V, 60Hz 1Ph
Boiler Full Power	Boiler Full Power	Boiler 2/3 Power	Boiler Half Power

Fifth — Chemicals

- Dishwasher comes standard with built-in **Adjustable** Detergent and Rinse Pumps
- On the back of the Dishwasher, locate clear tube marked as “Detergent” and place inside detergent container.(Fig.7)
- The unmarked clear tube is to be placed inside your rinse container. (Fig. 7)
- Contact Fagor to install an External Chemical Pump. **Failure to do so will void your warranty!**

Fig. 7

USE COMMERCIAL GRADE, HIGH TEMPERATURE, LOW SUDS LIQUID DETERGENT!

Run Machine to verify that all electrical, water and drain hookups are correct, chemicals amount are adequate and there are no leaks!

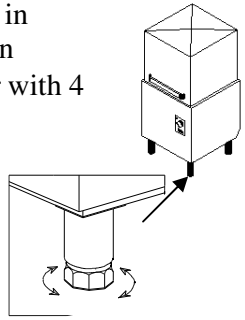
FAGOR

Quick Installation Guide
COP 174W

All Plumbing and Electrical Connections must be made by a qualified installer in accordance with your state and local codes!

First — Level Dishwasher

- Place Dishwasher in permanent location
- Level Dishwasher with 4 leveling feet
- Level front to back and side to side



Second — Hot Water Connection

- Min. 140˚ F (60˚C) @ 20 psi flow pressure
- Use 5’ flexible water supplied hose (Fig. 2)
- Install filter and gasket supplied

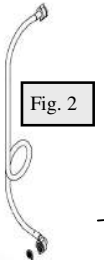


Fig. 2

To Wall:
Straight side + filter

3/4” fitting (3/4” garden hose adapter supplied if needed)

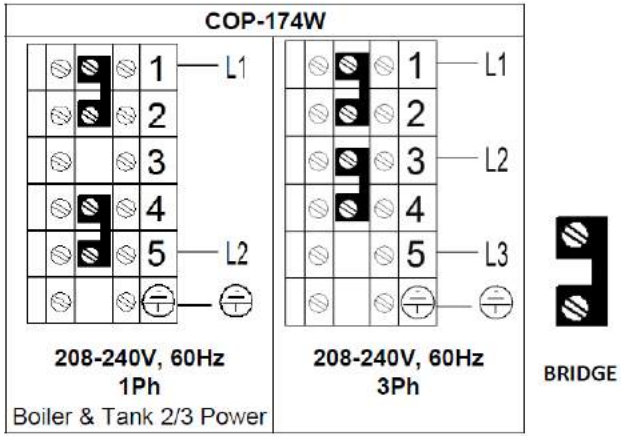
To Dishwasher:

Third — Hot Water Connection

- Open Drain required
- 1-1/2” minimum I.P.S.
- Use grey flex drain supplied (Fig. 3). Clamp it, so remains in place.
- Max. Drain Height:10”

Fourth — Electrical Connection

- Remove left side panel to access to terminal block
- Check Service Manual (Fig. 4) to verify Voltage and Phase.
- Verify Terminal Block Connection. Single Phase (Fig. 5). Three Phase (Fig.6)
- Check Amps Consumption on Service Manual to size breaker correctly.
- Replace front panel. Careful not pull out any wires.
- Write the Model and Serial number in the manual. Keep in safe place.



Sixth — Chemicals

- Dishwasher comes standard with built-in **Adjustable** Detergent and Rinse Pumps
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- The unmarked clear tube is to be placed inside your rinse container (Fig. 7).

Fig. 7

USE COMMERCIAL GRADE, HIGH TEMPERATURE, LOW SUDS LIQUID DETERGENT!

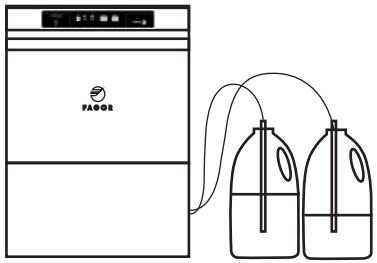
Run Machine to verify that all electrical, water and drain hookups are correct, chemicals amount are adequate and there are no leaks!

QUICK START GUIDE - EVO Undercounter dishwashers

FAGOR

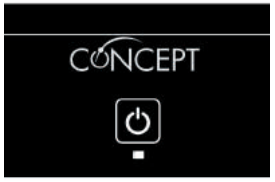
WASH

1



Check chemical levels

2

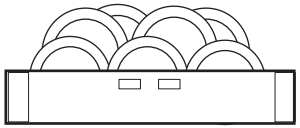


Turn on: Hold the on/off button for 5 seconds

3

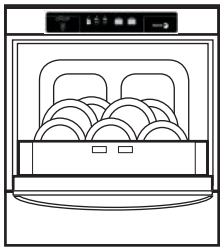
Wait for wash temperature to read 160°F / 71°C

4



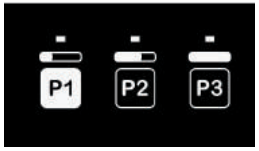
Pre-scrap wares thoroughly
Place in rack

5



Load rack into dishwasher

6



Close door, press and hold P1, P2 or P3 for 1 second to start wash cycle

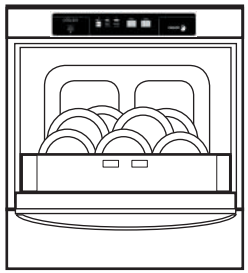
7

WASH CYCLE IS EXTENDED IF THE FINAL RINSE WATER IS NOT UP TO 180° / 82°C.

Cycle is complete when green light turns off

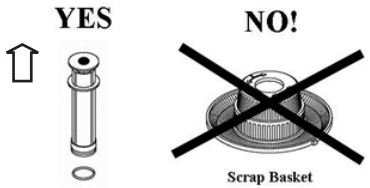
DRAIN

1



Open the door

2



Remove overflow tube

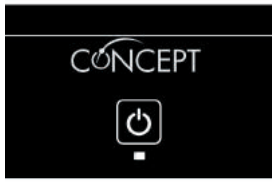
3

Hold P1 for 5 seconds until LED starts flashing; drain cycle will begin. Keep the door open

4

WHEN CYCLE FINISHES, CLEAN INSIDE THE UNIT AND REPLACE COMPONENTS

5



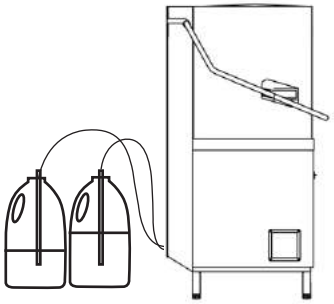
Hold power button for 5 seconds to turn machine off

QUICK START GUIDE - EVO Hood-type dishwashers

FAGOR

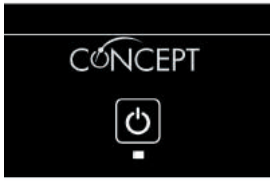
WASH

1



Check chemical levels

2

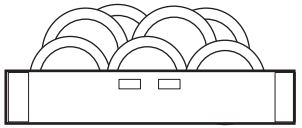


Turn on: Hold the on/off button for 5 seconds

3

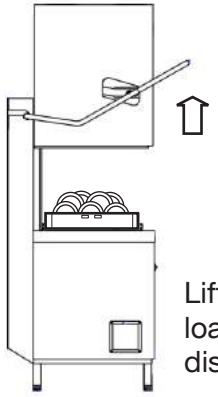
Wait for wash temperature to read 160°F / 71°C

4



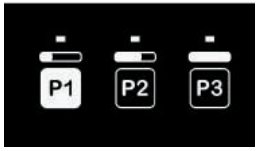
Pre-scrap wares thoroughly
Place in rack

5



Lift hood and load rack into dishwasher

6



Close door, press and hold P1, P2 or P3 for 1 second to start wash cycle

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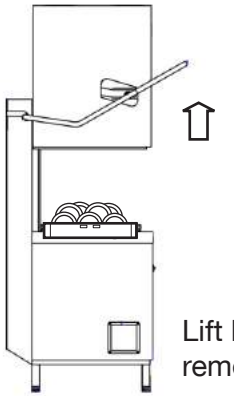
WASH CYCLE IS EXTENDED IF THE FINAL RINSE WATER IS NOT UP TO 180° / 82°C.

Cycle is complete when green light turns off

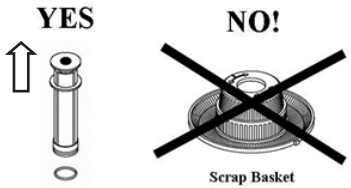
DRAIN

1



Lift hood, remove rack

2



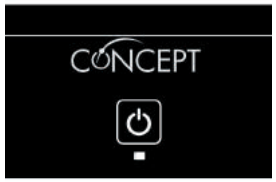
Remove overflow tube

3

KEEP HOOD OPEN UNTIL WATER HAS DRAINED.

CLEAN INSIDE THE UNIT AND REPLACE COMPONENTS

4



Hold power button for 5 seconds to turn machine off

ONNERA GROUP

WIRING DIAGRAMS

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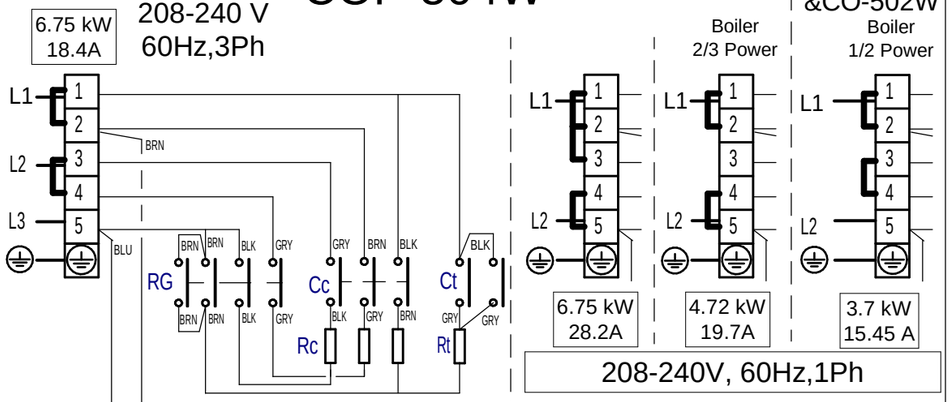
5. ELECTRIC DIAGRAMS LEGEND

	ENGLISH	FRANÇAIS
	Grounding	Mise à terre
	Terminal block bridge	Pontage pour bloc de jonction
BA	Rinse pump	Pompe de rinçage
BD	Drain pump	Pompe de vidange
C1, C2	Capacitor	Condensateur
CMB	Wash pump contactor	Contacteur pompe de lavage
Cc	Boiler heating contactor	Contacteur chauffage surchauffeur
Ct	Tank heating contactor	Contacteur chauffage cuve
CP	Door relay	Relais de porte
Ds. Abr.	Rinse Aid dispenser	Distributeur de produit de rinçage
Ds. Det.	Detergent dispenser	Distributeur de détergent
F	Fuse	Fusible
IG	Main switch	Interrupteur général
IP	Door microswitch	Micro porte
L1 L2 L3	Power Supply Phases	Phases d'alimentation
MB1, MB2	Wash Pump	Pompe de lavage
P1	Tank Pressure switch	Pressostat de cuve
P2	Drain pump Pressure switch	Pressostat de Pompe de vidange
P3	Boiler Pressure switch	Pressostat de surchauffeur
PP2	Soft Start Jumper	Soft Start Cavalier
Rc	Boiler heating element	Resistance surchauffeur
RG	Main Relay	Relais principal
Rt	Tank heating element	Resistance cuve
TC	Boiler thermostat	Thermostat surchauffeur
TSC	Boiler Hi-limit thermostat	Thermostat Limiteur surchauffeur
TST	Tank Hi-limit thermostat	Thermostat Limiteur de cuve
TT	Tank thermostat	Thermostat de cuve
V	Water solenoid valve	Electrovanne d'eau
VF	Water solenoid valve	Electrovanne d'eau

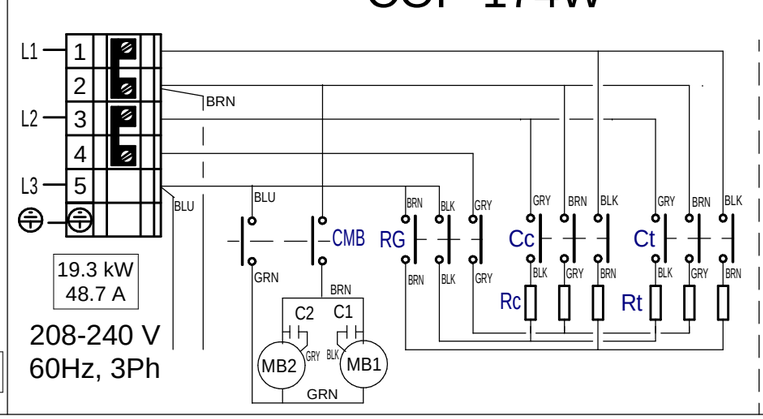
		COLOUR		COULEURS
BLU	=	Blue	=	Bleu
YEL	=	Yellow	=	Jaune
YEL/GRN	=	Yellow / green	=	Jaune / vert
WHT	=	White	=	Blanc
GRY	=	Grey	=	Gris
BRN	=	Brown	=	Marron
BLK	=	Black	=	Noir
ORG	=	Orange	=	Orange
RED	=	Red	=	Rouge
PNK	=	Pink	=	Rose
GRN	=	Green	=	Vert
PRP	=	Purple	=	Pourpre

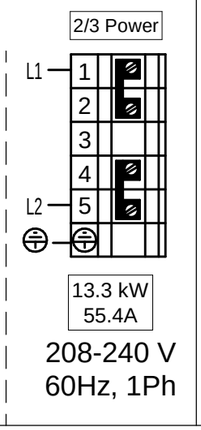
CO-402W, CO-502 W, COP-504 W, COP-174W

COP-504W

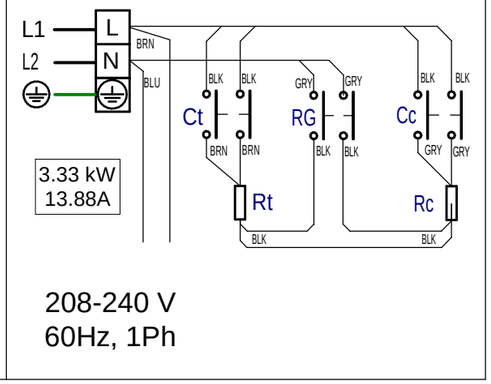


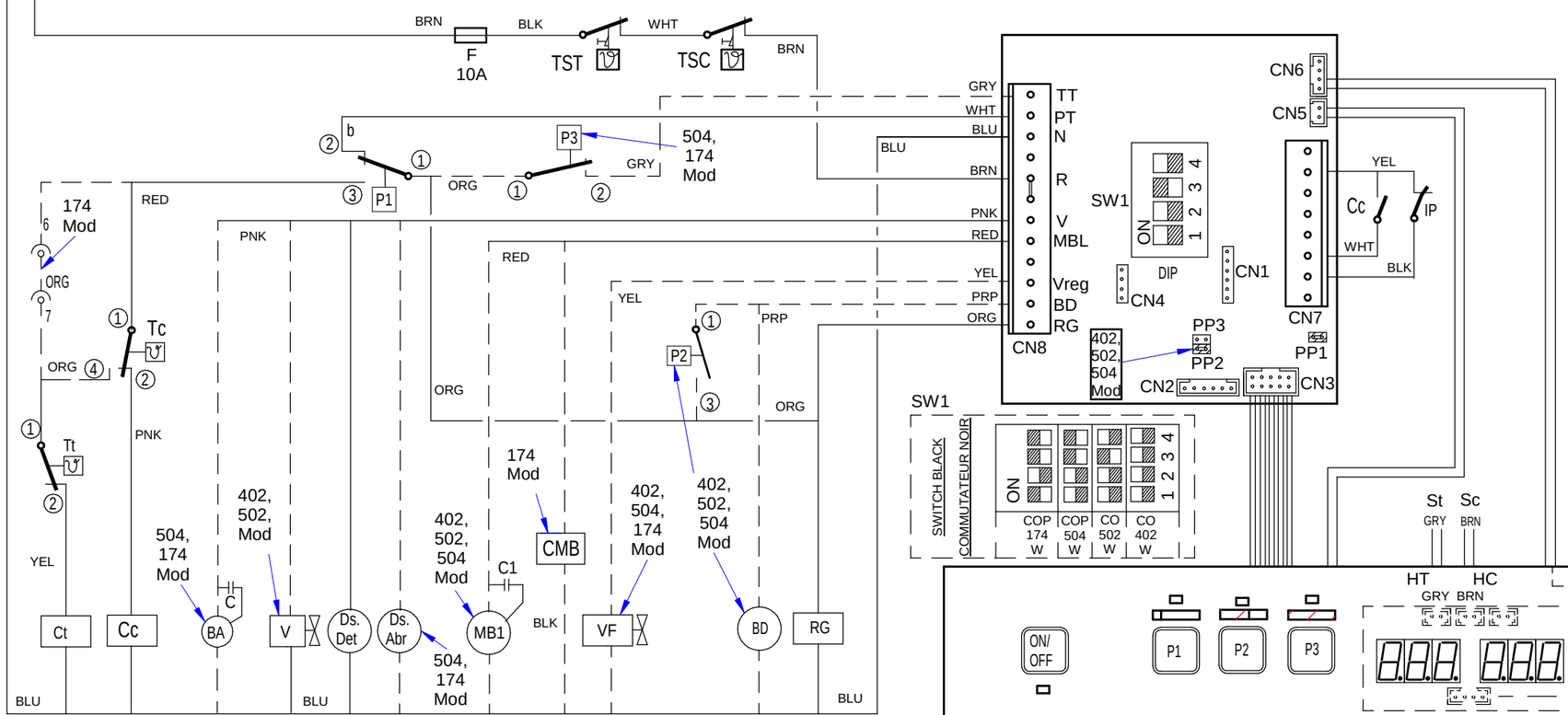
COP-174W



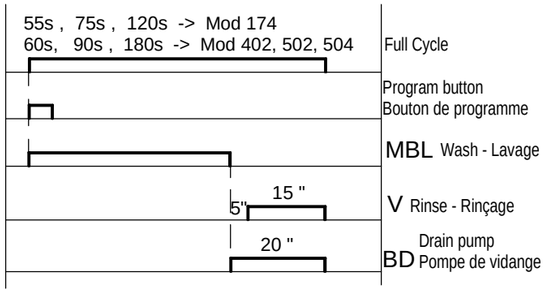


CO-402W





CYCLE



Ref. 12114451

-	Esquema Teorico CO XX2 W, COP XX4 W	-	12114451		
Nº	TITLE	QTY	CODE	MATERIAL	TREATMENT

GENERAL TOLERANCES: ISO 2768-1 Very Coarse

LINEAR	Fine	Medium	Coarse	Very Coarse
<3mm	±0.05	±0.10	±0.15	
3-6mm	±0.05	±0.10	±0.20	
6-30mm	±0.10	±0.20	±0.50	
30-120mm	±0.15	±0.30	±0.80	
120-400mm	±0.20	±0.50	±1.20	
400-1000mm	±0.30	±0.80	±2.00	
1000-2000mm	±0.50	±1.20	±3.00	

ANGULAR	Fine	Medium	Coarse	Very Coarse
<10mm	±1º		±1º30'	±3º
10-50mm	±30'		±1º	±2º
50-120mm	±20'		±30'	±1º
120-400mm	±10'		±15'	±30'
>400mm	±5'		±10'	±20'

GENERAL TOLERANCE FOR FORM AND POSITION: ISO 2768-2

LAVAVAJILLAS

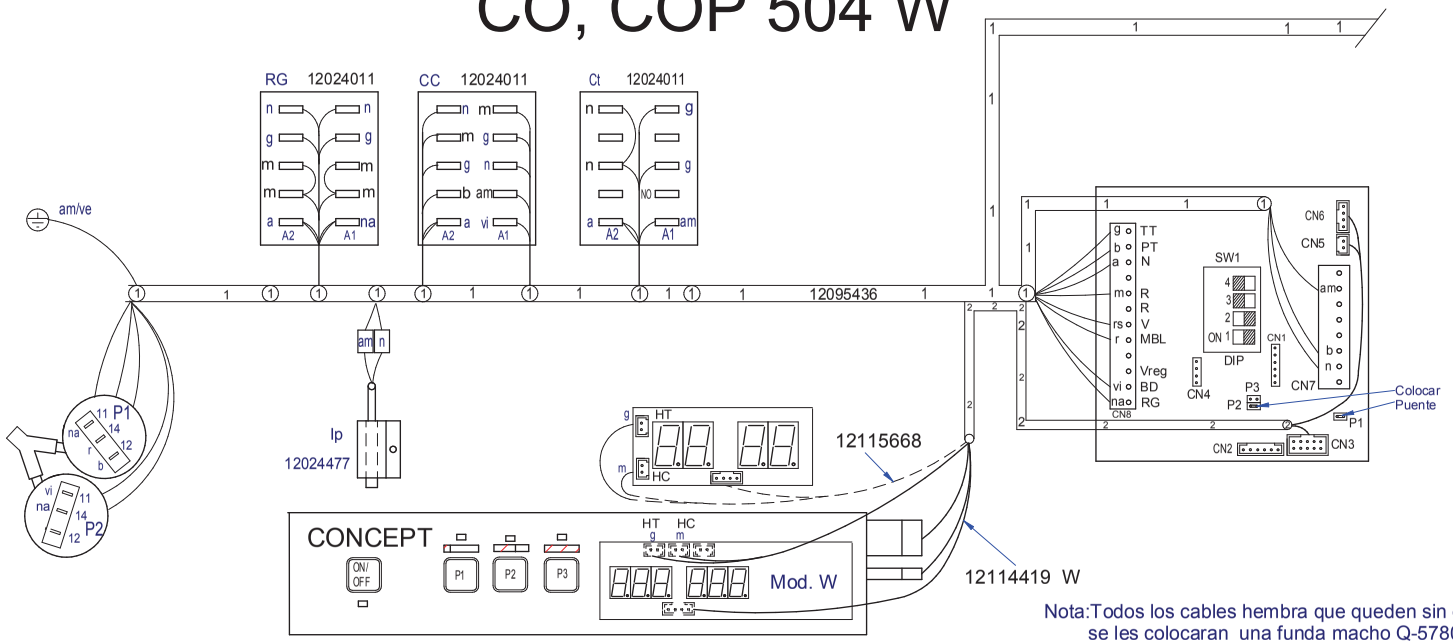
FAGOR INDUSTRIAL

DESIGNED BY	VALIDATED BY	DATE
M.Maillo	A.gallastegui	11.06.2014

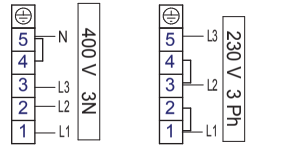
SHEET FORMAT:	A3
DESING CENTER:	ONA
MAT STATUS:	
DOC STATUS:	
SHEET:	1 / 1
SCALE:	1:1

12114451	REVISION		-	
			PROPOSED BY: -	ISSUE DATE:

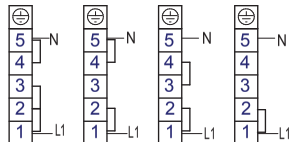
CO, COP 504 W



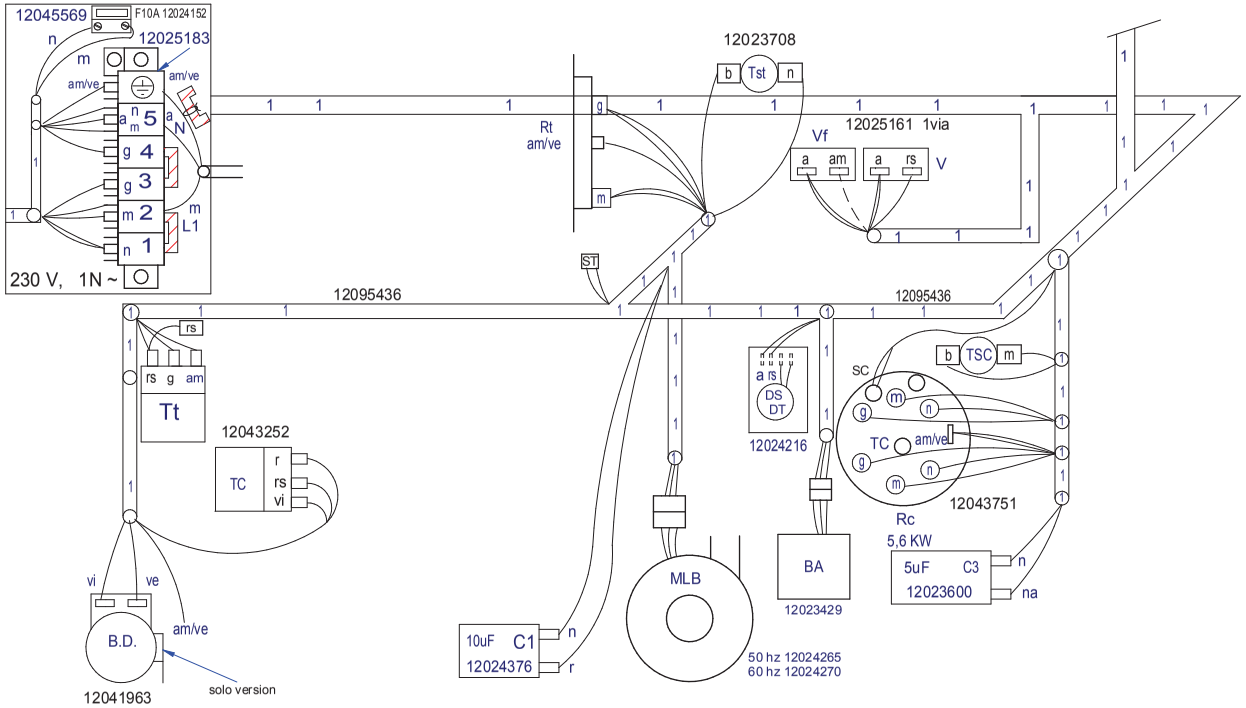
Nota:Todos los cables hembra que queden sin conectar se les colocaran una funda macho Q-578006

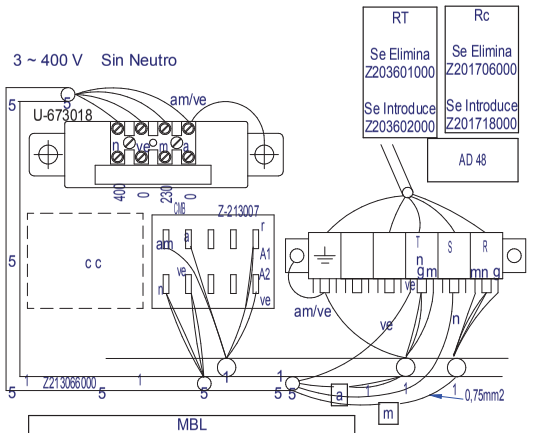


230 V 1 N,



①	12120084
②	12095673
③	12992009
Prensa estopas	12009927
Esquema teorico	12103192
Indicador de componentes	12022162
Leyenda	12103338





MBL
Se Elimina:
Z201011 (50Hz) o Z203511 (60Hz)
Se Introduce:
Z201086 (50Hz) o Z203512 (60Hz)

-	Plano Montaje CO, COP 504 W (64 W)	-	12114492		
Nº	TITLE	QTY	CODE	MATERIAL	TREATMENT

GENERAL TOLERANCES: ISO 2768-1 Very Coarse

BASIC	Fine	Medium	Coarse	Very Coarse
<3mm	±0.05	±0.10	±0.15	±0.20
3-6mm	±0.05	±0.10	±0.20	±0.30
6-30mm	±0.10	±0.20	±0.30	±0.50
30-120mm	±0.15	±0.30	±0.80	±1.20
120-400mm	±0.20	±0.50	±1.20	±2.00
400-1000mm	±0.30	±0.80	±2.00	±3.00
1000-2000mm	±0.50	±1.20	±3.00	±5.00

GENERAL TOLERANCE FOR FORM AND POSITION: ISO 2768-2

ANGULAR	Fine	Medium	Coarse	Very Coarse
<10mm	±1°	±1°30'	±3°	±5°
10-50mm	±30'	±1°	±2°	±4°
50-120mm	±20'	±30'	±1°	±3°
120-400mm	±10'	±15'	±30'	±2°
>400mm	±5'	±10'	±20'	±30'

LAVAVAJILLAS

FAGOR INDUSTRIAL

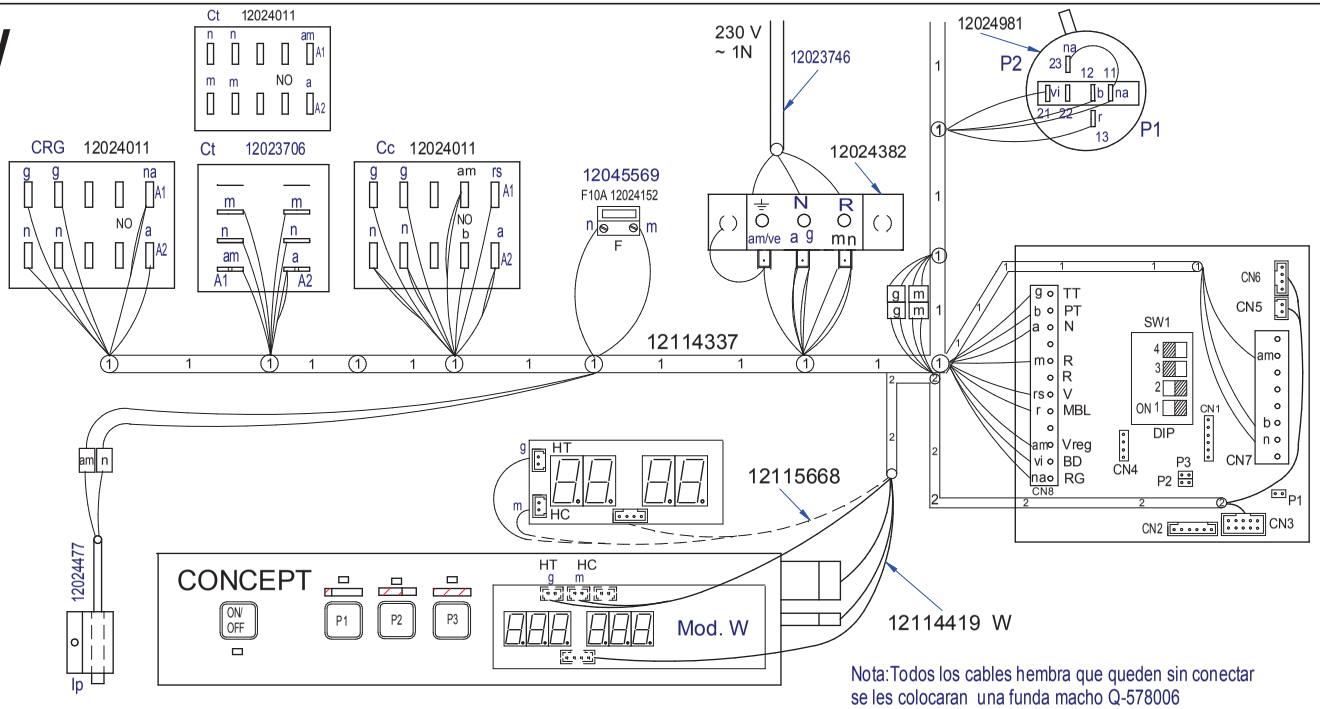
DESIGNED BY	VALIDATED BY	DATE
M.Mallo	A.G.	12.06.2014

SHEET FORMAT:	A2
DESING CENTER:	ONA
MAT STATUS:	
DOC STATUS:	
SHEET:	1 / 1
SCALE:	1:1

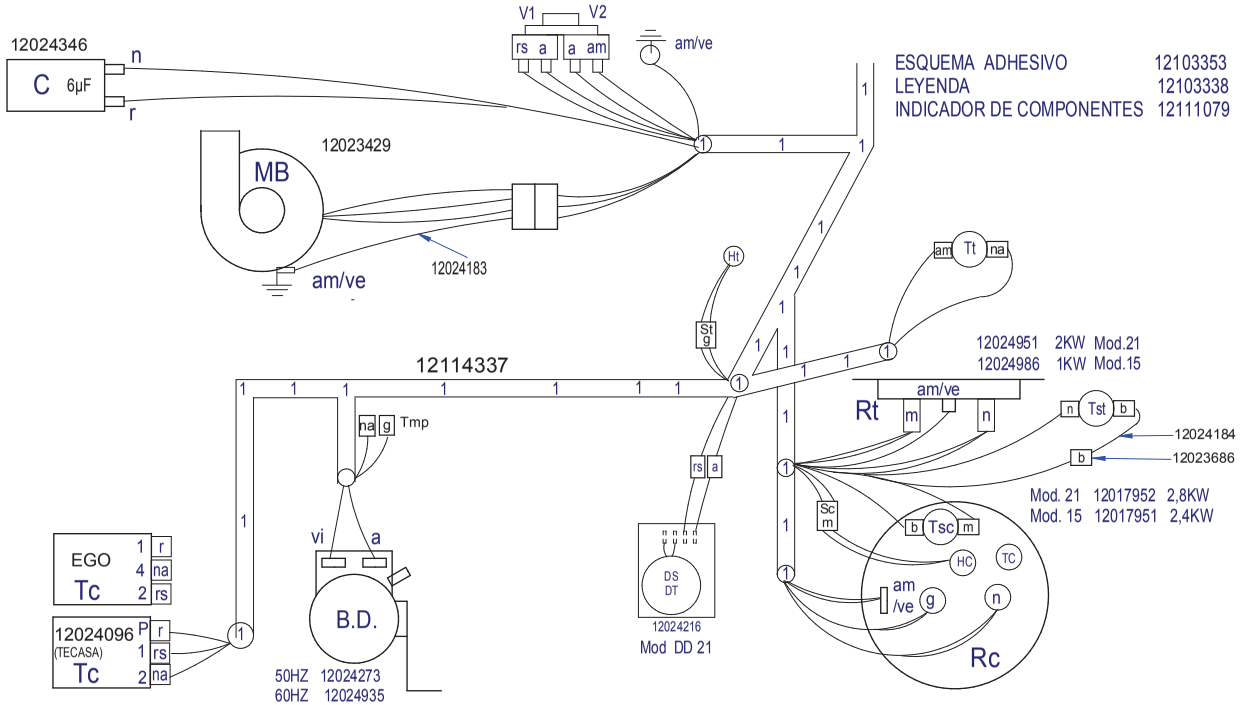
12114492 REVISION -

PROPOSED BY: - ISSUE DATE:

CO 402 W



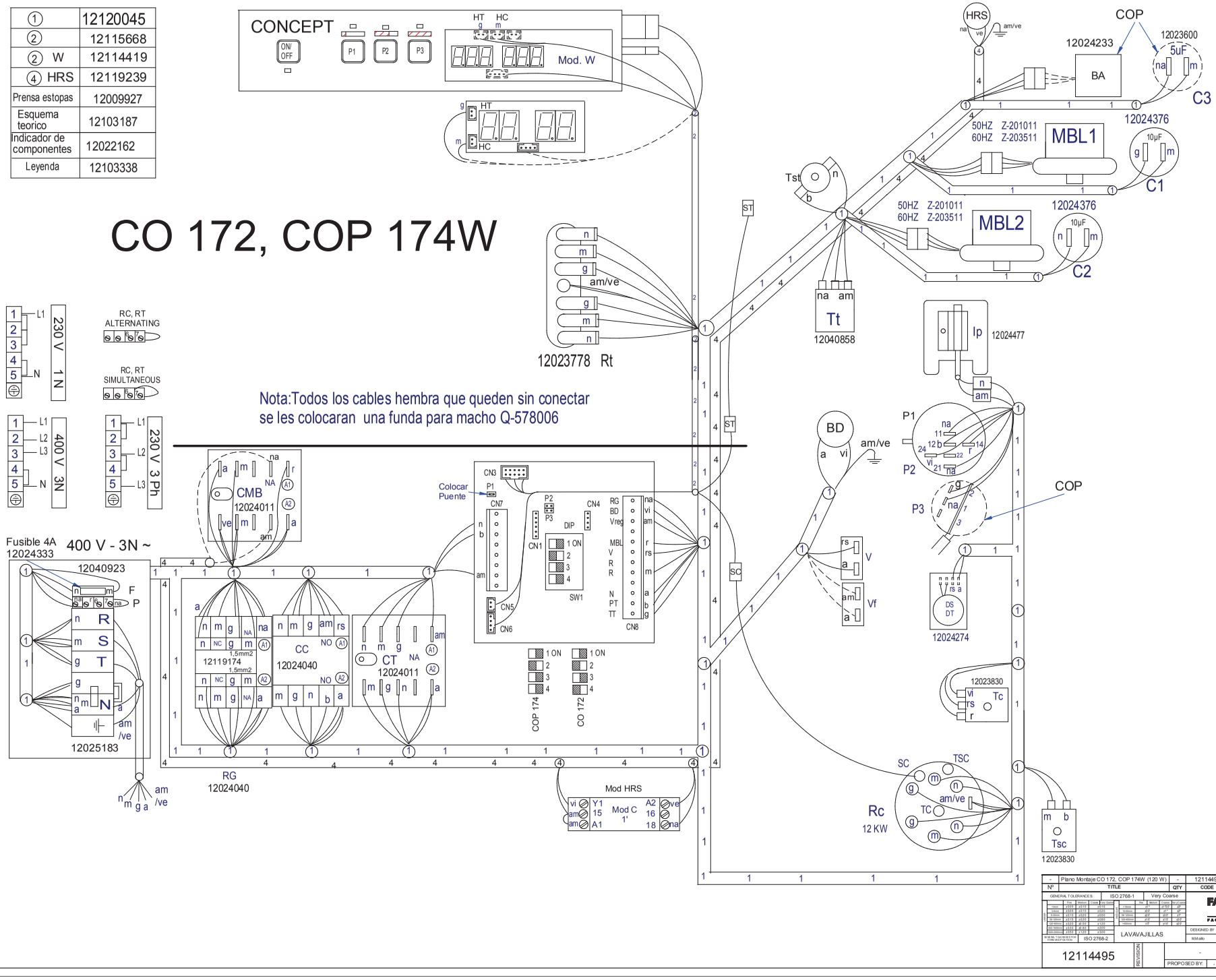
Nota:Todos los cables hembra que queden sin conectar se les colocaran una funda macho Q-578006



-	Plano Montaje CO 402 W (21 W)	-	12114490		
Nº	TITLE	QTY	CODE	MATERIAL	TREATMENT
GENERAL TOLERANCES:	ISO 2768-1	Very Coarse	FAGOR INDUSTRIAL		SHEET FORMAT: A2
					DESING CENTER: ONA
					MAT STATUS:
					DOC STATUS:
GENERAL TOLERANCE FOR FORM AND POSITION:	ISO 2768-2	LAVAVAJILLAS	DESIGNED BY	VALIDATED BY	DATE: SHEET: 1 / 1
			M.Mallo	A.G.	12.06.2014 SCALE: 1:1
12114490	REVISION	-	PROPOSED BY: -		ISSUE DATE:

①	12120045
②	12115668
② W	12114419
④ HRS	12119239
Prensa estopas	12009927
Esquema teorico	12103187
Indicador de componentes	12022162
Leyenda	12103338

CO 172, COP 174W



-	Plano Montaje CO 172, COP 174W (120 W)	-	12114495				
Nº	TITLE	QTY	CODE	MATERIAL		TREATMENT	
GENERAL TOLERANCES		ISO 2768-1	Very Coarse	FAGOR		SHEET FORMAT	A1
				FAGOR INDUSTRIAL		DESIGN CENTER	ONA
						MAT STATUS	
						DOC STATUS	
ISO 2768-2	LAVAVAJILLAS			DESIGNED BY	VALIDATED BY	DATE	SHEET: 1 / 1
				M.Mallo	A.G.	12.06.2014	SCALE 1:1
12114495	REVISION	-		PROPOSED BY:	-	ISSUE DATE:	

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TROUBLESHOOTING GUIDES

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Us.service@onneragroup.com
www.onneragroup.com

SEQUENCE OF OPERATION UNDERCOUNTER DISHWASHER MODEL "CO-502W - CO-402W" ONNERA GROUP

DISHWASHER START UP

POWER ON — Press & hold power button for 5 seconds

→ Display will illuminate and machine will start fill cycle. Door must be closed . Power LED must be Lit.

→ Electrical signal sent through connector CN5 to the control board. Door switch (IP) in closed position. Check Continuity **(Yellow & Black wire)**

→ Control board recieves signal from white on P1 that tank is not full. Board sends power through Pink wire to energize fill valve (V).

FILLING (automatic) — with 20 PSI (flow pressure) the machine will take from 2 to 3 minutes to fill

→ The dishwasher will stop filling when the water level reaches the top section of the scrap basket. Pressure gauge should display 25+/-3 PSI during fill cycle. Detergent pump is energized while unit is filling.

→ The pressure switch (P1) will recognize the correct water level and it will switch power to the heating cycle (**Red wire**)

HEATING (automatic)

The Dishwasher will start heating the rinse water first (180 °F Min) then the wash water(160 °F Min). ***Do not start a cycle until these temperatures are shown in the display***

→ Booster Contactor (CC) will receive power through TC (Booster T-stat) from pink wire until TC satisfies (194 °F). Then TC will switch power to TT (Tank T-stat) through orange wire.

→ TT (Tank T-stat) will send power to the Wash contactor (CT) through yellow wire. CT will heat until satisfied (160 °F)

DISHWASHER READY TO WASH

WASH CYCLE - P1, P2,P3

Holding P1,P2 or P3 for 2 seconds will initiate the cycle.
P1 = 90 seconds of wash
P2=120 seconds of wash
P3= 180 seconds of wash

→ The control board will receive an electrical signal from the touch pad through connector CN3. The control board will send power (Red wire) to the wash pump (MBL)

RINSE CYCLE

The dishwasher will stop washing and it will initiate the rinse cycle
Rinse cycle will last 15 seconds on any wash mode(P1,P2,P3) 5 seconds dwell and 10 seconds rinse.

→ The control board will cut off power to the wash pump (MBL) (Red wire) and it will send power to the fill valve (V) (Pink wire)

DISHWASHER READY TO DRAIN

DRAIN

BEFORE STARTING DRAINING CYCLE THE OVERFLOW TUBE MUST BE REMOVE AND DOOR MUST REMAIN OPEN ***MACHINE NEEDS TO BE ON***

→ Holding P1 for 5 seconds will initiate the drain cycle.
After drain is completed press and hold power button for five seconds to turn the machine OFF. Door must be left open

→ The control board will receive the signal from the touch pad through the connector CN3. the control board will send power to the drain pump (BD) (Violet wire)

* **Green boxes = User Operation**
Orange boxes = Technical Operation
Blue boxes = additional information

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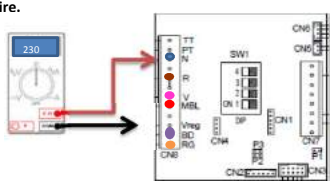
** **When checking for voltage use (Blue wire) at the control board as common wire.**

FOR TECHNICAL SUPPORT CALL US AT: +1-866-463-2467



SEQUENCE OF OPERATION UNDERCOUNTER DISHWASHER MODEL "COP Model"

DISHWASHER START UP

ONNERA GROUP

POWER ON — Press & hold power button for 5 seconds

→ Display will illuminate and machine will start fill cycle. Door must be closed . Power LED must be Lit.

→ Electrical signal sent through connector CN5 to the control board. Door switch (IP) in closed position. Check Continuity (Yellow & Black wire)

→ Control board recieves signal from Gray on P3 that boiler tank is not full. Board sends power through Yellow to energize fill valve (VF).

FILLING (automatic)

The machine will take from 2 to 3 minutes to fill

→ The dishwasher will stop filling when the water level reaches the top section of the scrap basket. Detergent & Rinse Aid pumps are energized during fill cycle.

→ With pressure switch P3 satisfied, board will recieve signal from White on P1 and sends power to Rinse Pump (BA) through Pink wire. The pressure switch (P1) will recognize the correct water level and it will switch power to the heating cycle

HEATING (automatic)

The Dishwasher will start heating the rinse water first (180 °F Min) then the wash water(160 °F Min). ***Do not start a cycle until these temperatures are shown in the display***

→ Booster Contactor (CC) will receive power through TC (Booster T-stat) from pink wire until TC satisfies (194 °F). Then TC will switch power to TT (Tank T-stat) through orange wire.

→ TT (Tank T-stat) will send power to the Wash contactor (CT) through yellow wire. and heat until satisfied (160 °F)

DISHWASHER READY TO WASH

WASH CYCLE - P1, P2,P3

Holding P1,P2 or P3 for 2 seconds will initiate the cycle.
P1 = 90 seconds of wash
P2=120 seconds of wash
P3= 180 seconds of wash

→ The control board will receive an electrical signal from the touch pad through connector CN3. The control board will send power (Red wire) to the wash pump (MBL)

RINSE CYCLE

The dishwasher will stop washing and it will initiate the rinse cycle
Rinse cycle will last 15 seconds on any wash mode(P1,P2,P3) 5 seconds dwell and 10 seconds rinse.

→ The control board will cut off power to the wash pump (MBL) (Red wire) and it will send power to the Rinse Pump (BA) through Pink wire.

DISHWASHER READY TO DRAIN

DRAIN

BEFORE STARTING DRAINING CYCLE THE OVERFLOW TUBE MUST BE REMOVE AND DOOR MUST REMAIN OPEN

→ Holding P1 for 5 seconds will initiate the drain cycle.
After drain is completed press and hold power button for five seconds to turn the machine OFF. Door must be left open

→ The control board will receive the signal from the touch pad through the connector CN3. the control board will send power to the drain pump (BD) (Purple wire)

* **Green boxes = User Operation**

Orange boxes = Technical Operation

Blue boxes = additional information

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www.onneragroup.com

** **When checking for voltage use (Blue wire) at the control board as common wire.**

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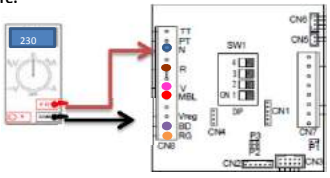

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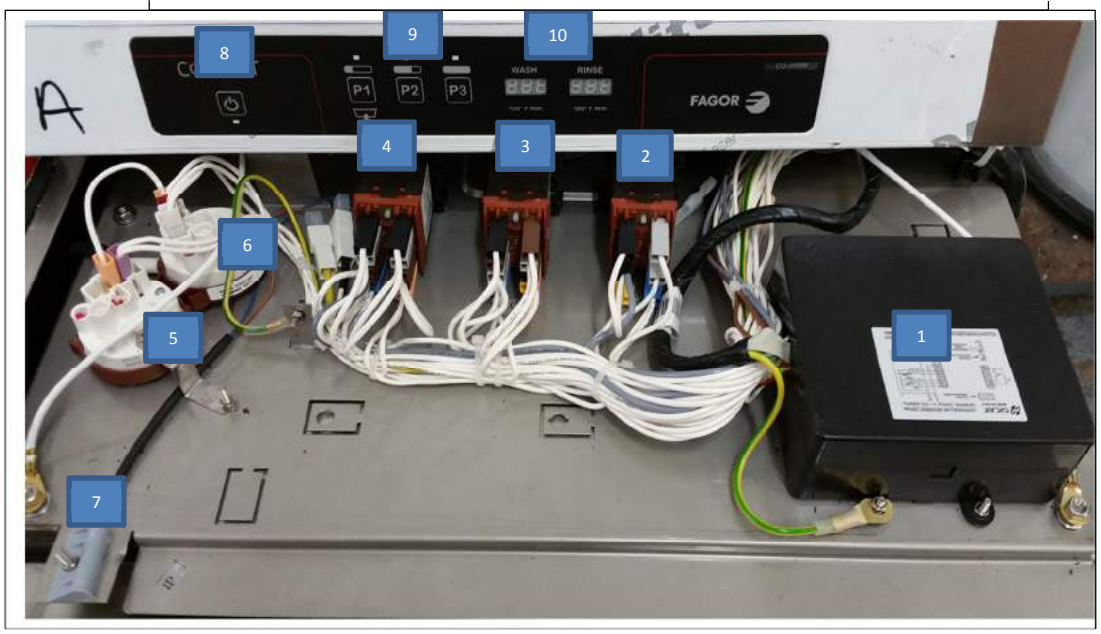
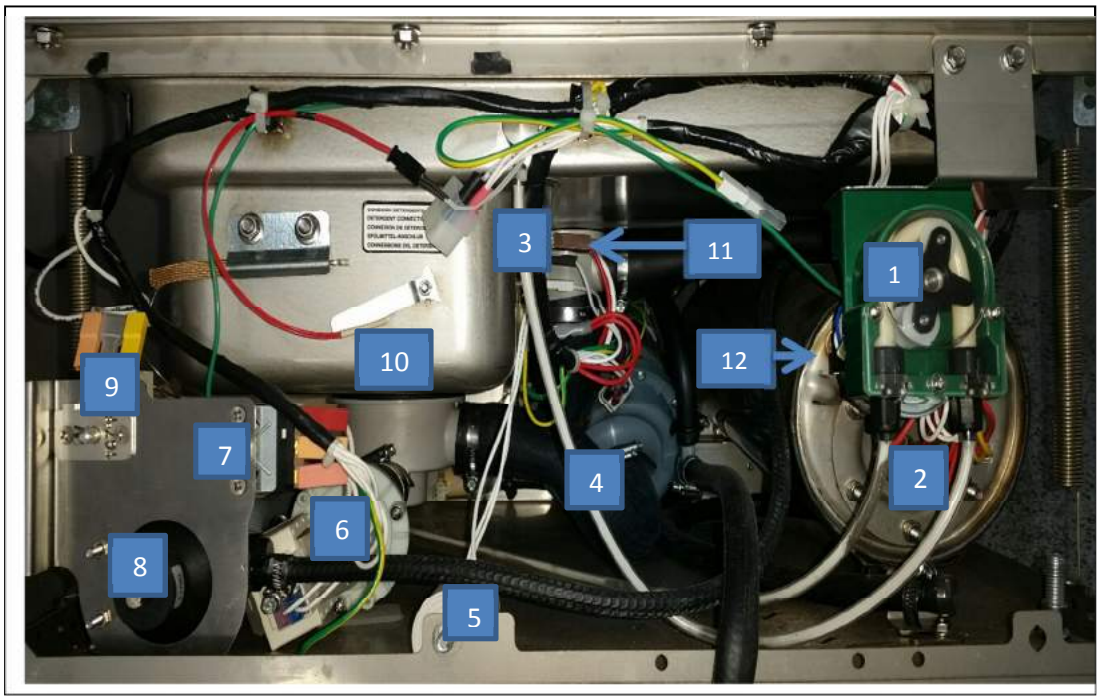
SERVICE BULLETIN

EVO DW Component Location



1. Control Board
2. CC Relay
3. CT Relay
4. RG Relay
5. P1(Water Level) Pressure switch
6. P2(Overflow) Pressure Switch
7. Door Sensor
8. Power Button
9. Time Cycle Buttons
10. Temperature Gauges



1. Detergent Pump
2. Boiler Tank & Element
3. Wash Tank Element
4. Wash pump motor
5. Wash Motor Capacitor
6. Drain Pump
7. Boiler Thermostat
8. Rinse Aid Pump
9. Wash Tank Thermostat
10. Wash Temp display Sensor
11. Hi limit Tstat-WASH
12. Hi limit Tstat-BOILER

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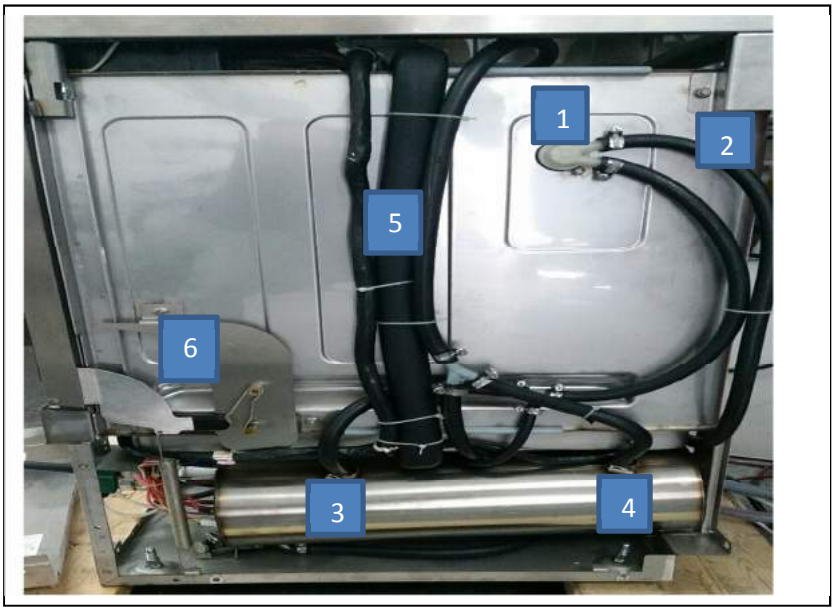
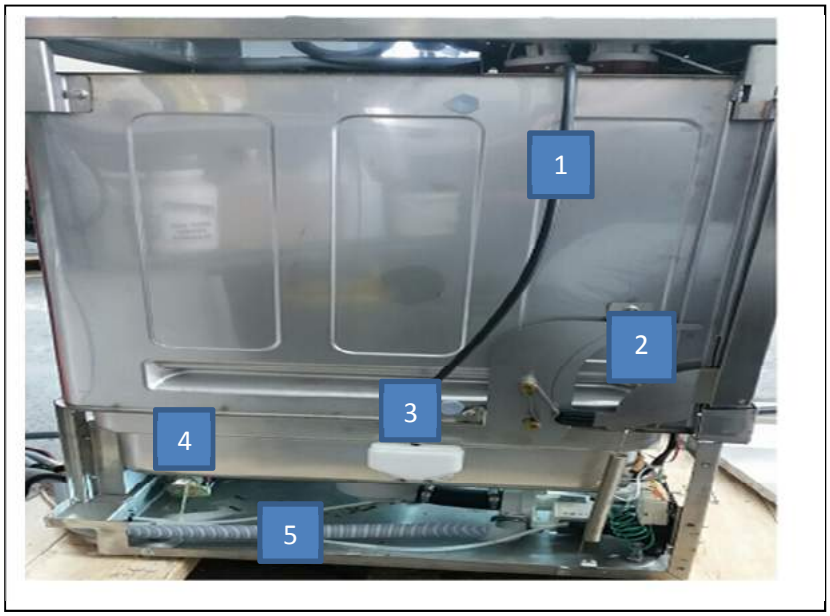


1. Non Return Valve
2. Water inlet hose from fill Valve
3. Water inlet to boiler
4. Rinse water outlet to arms
5. Wash water distribution hose
6. Right Door spring support



1. Pressure switch hose
2. Left Door spring support
3. Pressure Cup
4. Water Inlet Valve
5. Drain Hose

ONNERA GROUP

Dishwasher not turning ON

Service Bulletin

Machine not turning ON
VERIFY VOLTAGE TO OUTLET

Locate Control box and remove lid.
verify power to wires **BROWN & BLUE (208-240 V.)**
Full voltage present?

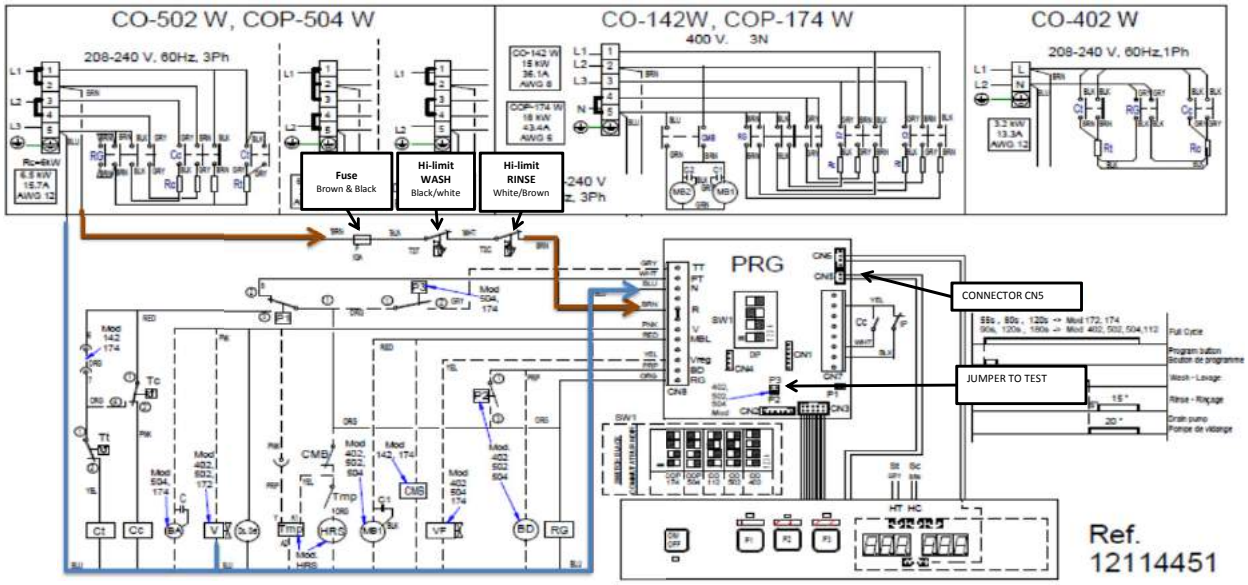
Yes → **verify and secure all connections inside the control board**

Yes → Locate connector CN 5
-Disconnect small ribbon cable
-place jumper on connector CN 5
Did the machine turn ON?

Yes → Replace Adhesive Label (Overlay)
CO-MODELS 12112957
AD-MODELS Z218429000

No → Verify the following components
-FUSE
-HI-LIMIT WASH

No → Replace Control Board



FOR TECHNICAL SUPPORT CALL US AT: +1-866-463-2467

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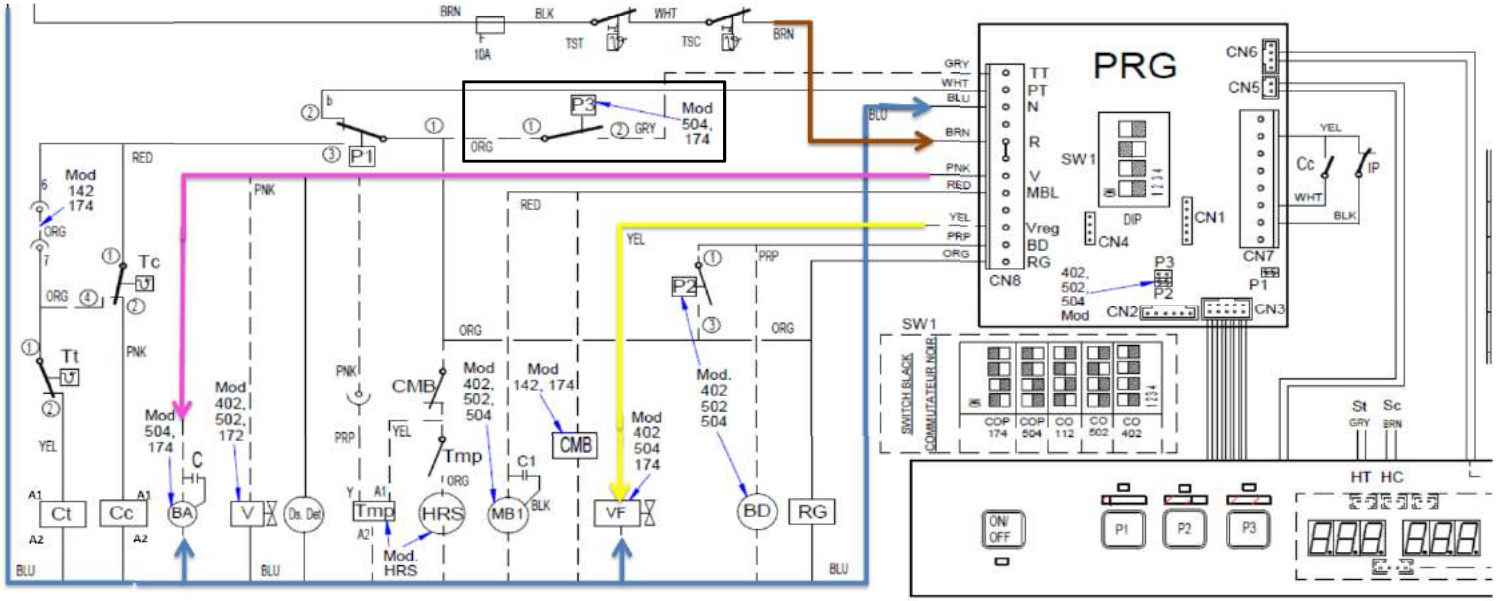
ONNERA GROUP

DW FILL CYCLE - SEQUENCE OF OPERATION MODELS COP

Service Bulletin

Step	Explanation
1	Turn Machine On
2	Control Box will energize through terminals BROWN & BLUE
3	Control Board will check position for pressure switch #3 (**P3**)
4	Depending on the position of **P3** the inlet valve (VF) or the final rinse pump(BA) will energize -
5	FINAL RINSE PUMP (BA) AND INLET VALVE (VF) WILL NEVER ENEGIZE AT THE SAME TIME
6	The inlet valve (VF) will receive power from YELLOW (control Box)
7	The inlet valve (VF) will start filling up the boiler tank with water - when the Boiler tank is full then P3 will switch power to the final rinse pump(BA) Final Rinse Pump (BA) is energized through PINK wire (Control Box) and will move water inside the boiler tank to the wash tank until P3 detects the boiler tank is empty. It will repeat steps 6 & 7 until wash
8	tank is full.



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MACHINE NOT FILLING

Service Bulletin

Machine not filling
VERIFY THERE IS WATER CONNECTED TO THE MACHINE

IF THE PRESSURE GAUGE SHOWS PRESSURE BUT THE MACHINE IS NOT FILLING - REMOVE RIGHT SIDE PANEL(S) VERIFY THERE IS NOT KINKED HOSES CONNECTING TO BOILER TANK

VERIFY MACHINE IS ON
Hold power buton for

Yes

Verify Door switch is working.
-Verify contiunity at door sensor (disconnect wires from the door sensor) open and close the door and verify operation.

Yes

-Verify Power at control box **(Blue & Pink)** should read 208-240 V.

Yes

-Verify Power at inlet Valve **(Pink & Blue)** should read 208-240 V.

No

-Verify machine is plugged
-Verify Breaker
-Call Electrical Contractor

No

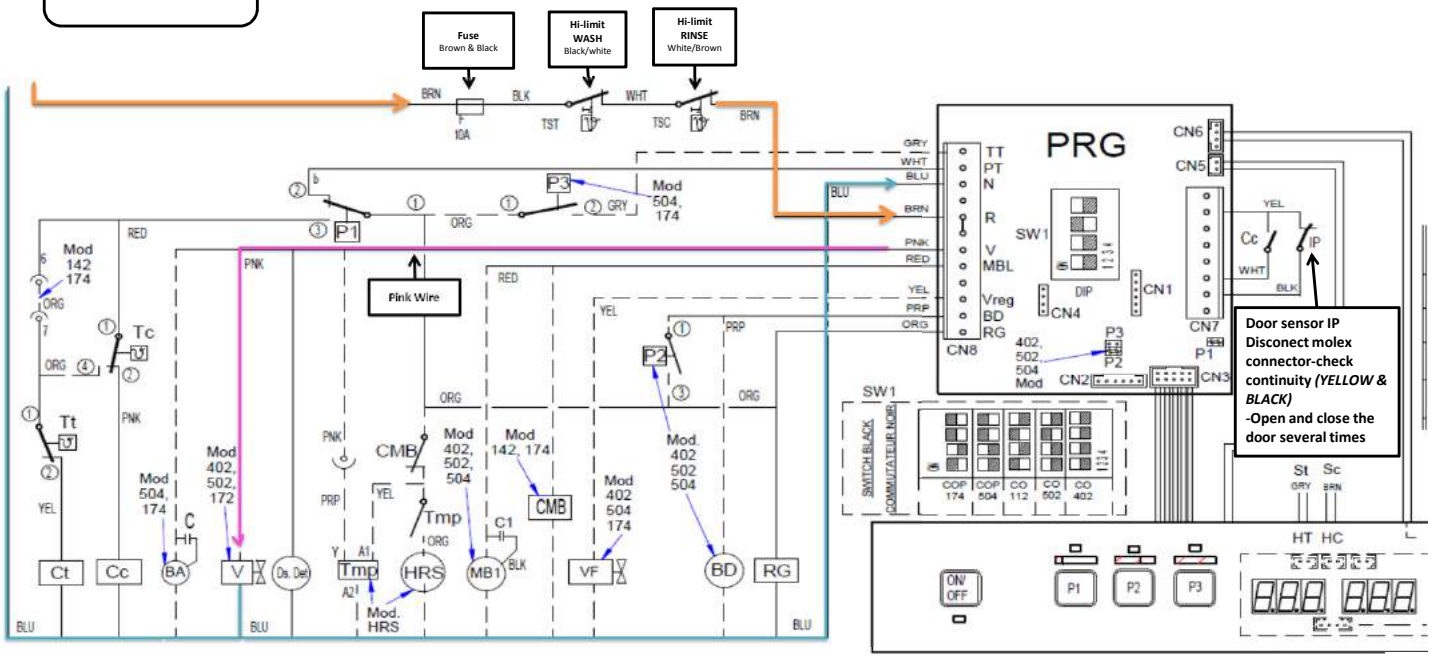
Replace Door sensor

No

Replace control board

Yes

Replace Water Valve



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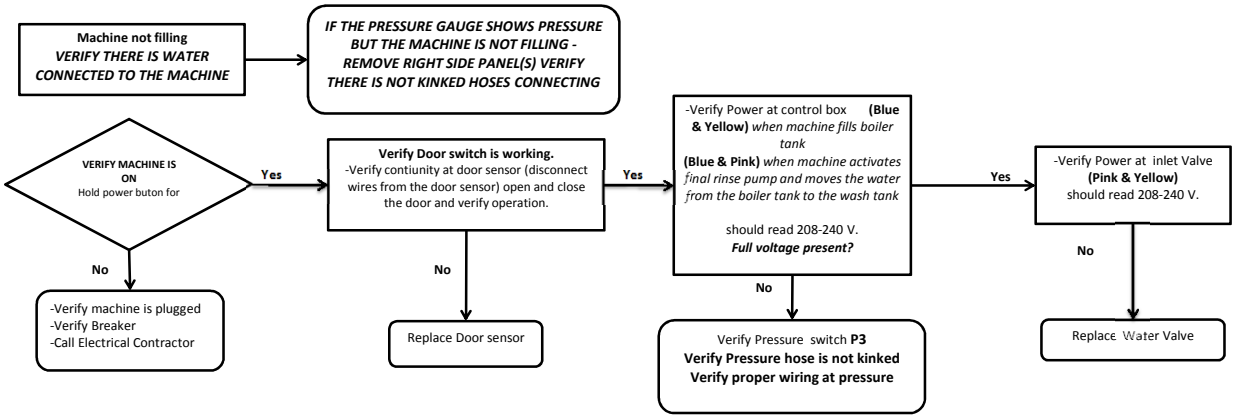
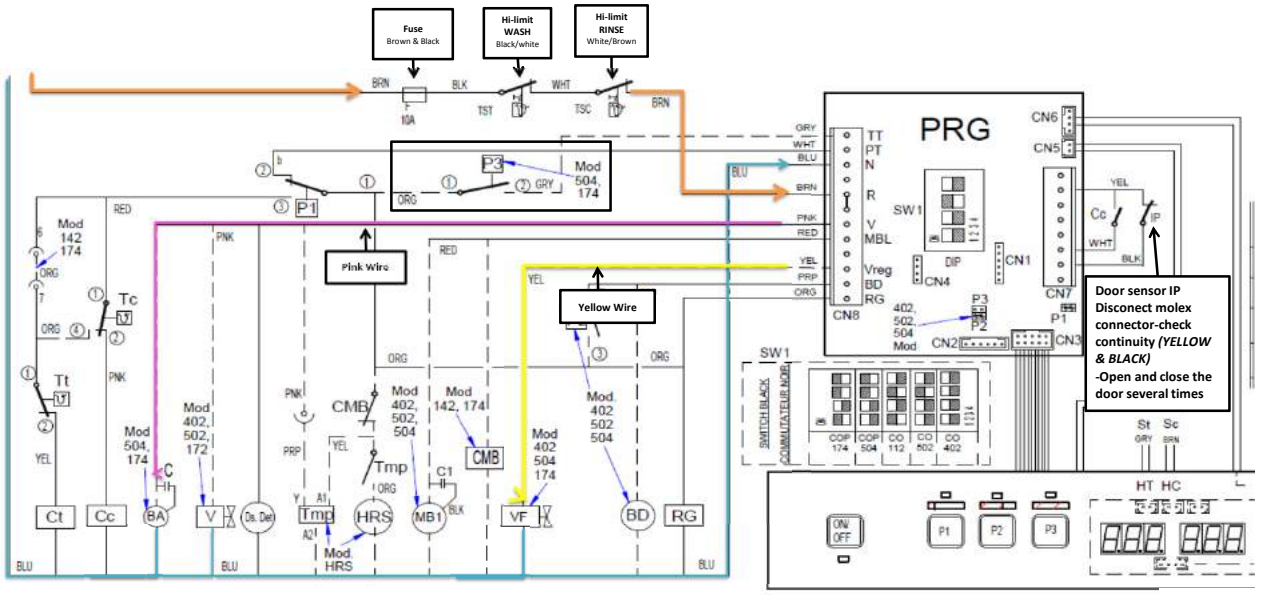
MACHINE NOT FILLING COP MODELS

Service Bulletin





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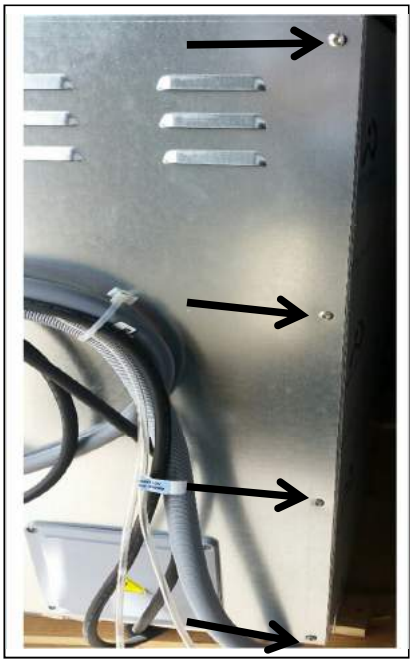
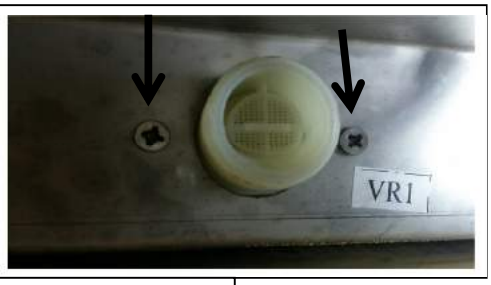
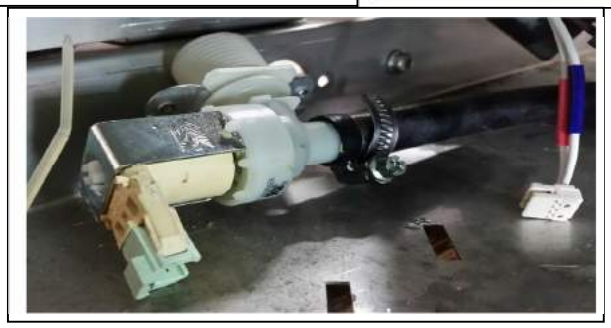
Evo Fill Valve Replacement

Step 1. Remove left side panel by removing two screws at the bottom of the panel, four on the back of the unit and one just under the door drip tray left corner. (See pictures)



Step 2. Locate Fill Valve. Remove wiring harness and Two mounting screws from the back bottom of the unit. (See Pictures)





Step 3. Replace Fill Valve by removing hose clamp and installing new valve. Reconnect wiring harness and test. Replace all screws and panels.

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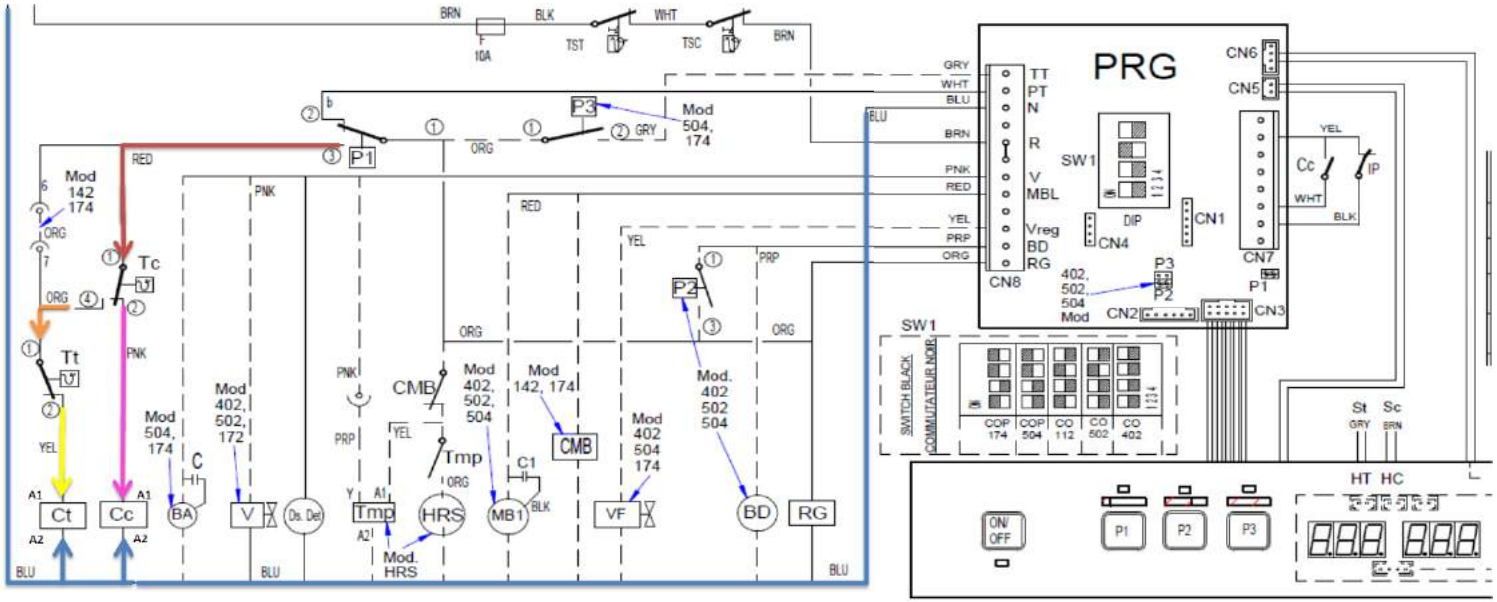
DW NOT HEATING - SEQUENCE OF OPERATION

Service Bulletin

Step	Explanation
1	Turn Machine On
2	Wait for machine to complete Fill cycle
3	Pressure switch P1 will receive power on terminal #1 ORANGE
4	When P1 is satisfied will send power out through terminal #3 RED
5	RED(P1) will feed thermostat TC (Booster/Rinse Water) through terminal #1
6	PINK wire on terminal #2 of TC T-stat will energize the coil of contactor CC1
7	Contactor CC1 will energize the Heating element inside the booster tank
8	When the Booster tank reaches the correct temperature (194F-200F) TC T-stat will switch power from PINK #2 to ORANGE #4
9	ORANGE #4(TC Stat) will feed the wash tank thermostat (TT) through terminal #1 (ORANGE)
10	Wash T-stat will receive power through terminal #1 (ORANGE) and will energize the coil (YELLOW #2 TT S-tat) for the wash contactor (CT)
11	When the Wash tank reaches the correct temp (162F-172F) the machine is ready for use



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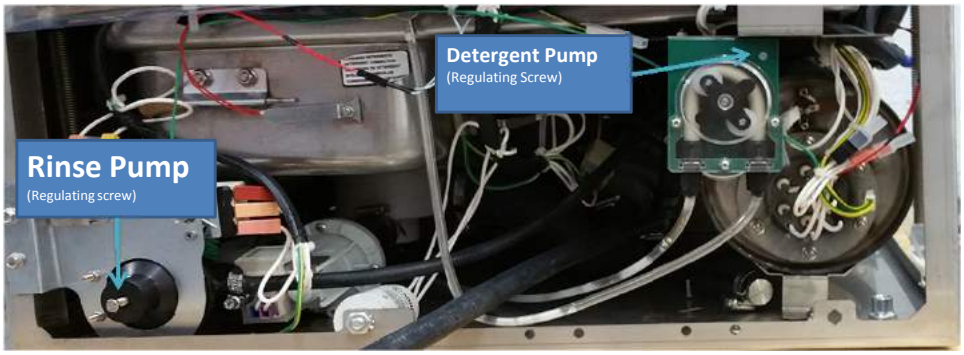
DISHWASHER CHEMICAL PUMPS

Explanations & Adjustments



Detergent pump

The detergent pump will operate every time the machine calls for water (Fill & Rinse cycle) depending of the set number the amount inject will vary. There is no need for priming.

If the water pressure is below 20 PSI the machine will take longer to fill. This will cause the detergent pump to run longer and add more detergent. This may result in sudsing or overflowing.

Max setting (7)
FILL CYCLE The detergent pump will rotate constantly during the fill cycle and it will inject 5 1/2 ounces of detergent (162.6 Milliliter)
WASH CYCLE At the end of the wash cycle the pump will inject 0.408 ounces (12.6 Milliliters)
Lowest setting (1)
FILL CYCLE The detergent pump will rotate a quarter of a turn every two seconds during the fill cycle and it will inject 1/2 ounce of detergent (44.3 Milliliters)
WASH CYCLE At the end of the wash cycle the pump will inject: 0.036 ounces (1.06 Milliliters)

RINSE PUMP

The Rinse pump works based on water pressure. No need for priming

If the water pressure is below 20 PSI the Rinse pump may not operate.

Max Setting
Wash Cycle At the end of the wash cycle the Rinse pump will inject: 0.054 ounces (1.6 Milliliters)

Min Setting
Wash Cycle At the end of the wash cycle the Rinse pump will inject: 0.021 ounces (0.62 Milliliters)

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