

**GENERAL INSTRUCTIONS FOR INSTALLATION, USE
AND MAINTENANCE**

**INSTRUCCIONES GENERALES PARA INSTALACIÓN, USO
Y MANTENIMIENTO**



RACK CONVEYOR DISHWASHERS

**Models: FI-200W L
FI-200W R**



Z-276112

0 TABLE OF CONTENTS

0	TABLE OF CONTENTS	I
1	SPECIFICATIONS	1
2	INSTALLATION	2
2.1	VISUAL INSPECTION	2
2.2	INSTALLATION DIAGRAMS	2
2.3	DATA PLATE	3
2.4	POSITIONING	3
2.5	WATER INSTALLATION	3
2.6	WATER DRAINAGE	4
	ELECTRICAL CONNECTION	4
2.7	CHEMICAL CONNECTIONS AND OTHERS	5
3	INSTALLATION CHECKLIST	6
4	USE	7
4.1	USE OF THE APPLIANCE	7
4.2	ADVICE ON HOW TO WASH CORRECTLY	8
5	MAINTENANCE	10
6	CLUTCH AJUSTMENT	11
7	TROUBLESHOOTING	12
8	ELECTRICAL DIAGRAM	15
9	COMPONENTS	16
10	WIRING SCHEMATIC	17
11	RECOMMENDED SPARE PARTS	18
12	FAGOR COMMERCIAL LIMITED WARRANTY	19

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read this manual thoroughly before installing or servicing this equipment. We recommend all service performed by an authorized service technician. Follow the instructions and guidelines to ensure that your warranty remains in effect.

1 SPECIFICATIONS

PERFORMANCE/CAPACITIES

Capacities

Racks per hr.:150
Dishes per hr.: 3750
Glasses per hr.: 5400
Wash Tank: 15 gal. / 55 liters

Heating Elements

Electric wash tank heater: 12 Kw
Electric booster heater: 36 Kw

Water Consumption / Requirements

Gallons per hr. (Max. use): 119 gal. / 450 liters
Inlet temperature: 140°F
Flow rinse pressure: 15 - 25 psi

Venting Requirements

Load: 200 cfm
Unload: 400 cfm
Total: 600 cfm

Wash Pump Motor

Motor (hp): (2) 1 hp

Dimensions / Shipping

Width: 50" / 1270 mm
Depth: 37" / 940 mm
Height: 78" / 1981 mm
Max clearance for dishware: 18" / 457 mm
Rack: 20" x 20" / 500mm x 500mm
Shipping weight: 657lbs. / 298 kg
Shipping volume (cu. ft.): 83

Temperatures

Wash: 160°F / 71°C
Rinse: 190°F / 88°C

TECHNICAL SPECIFICATIONS

Total Power Consumption

Volts/Hz/Ph	Amps	Power (KW)
208/60/3	112.2	40.4
220/60/3	118.7	45.2
240/60/3	129.5	53.8

Boiler Power Consumption

Volts/Hz/Ph	Amps	Power (KW)
208/60/3	82	29.4
220/60/3	86.6	33
240/60/3	94.5	39

Pump Power Consumption

Volts/Hz/Ph	Amps	Power (KW)
208/60/3	5.6	0.96
220/60/3	5.9	1.08
240/60/3	6.5	1.28

2 INSTALLATION

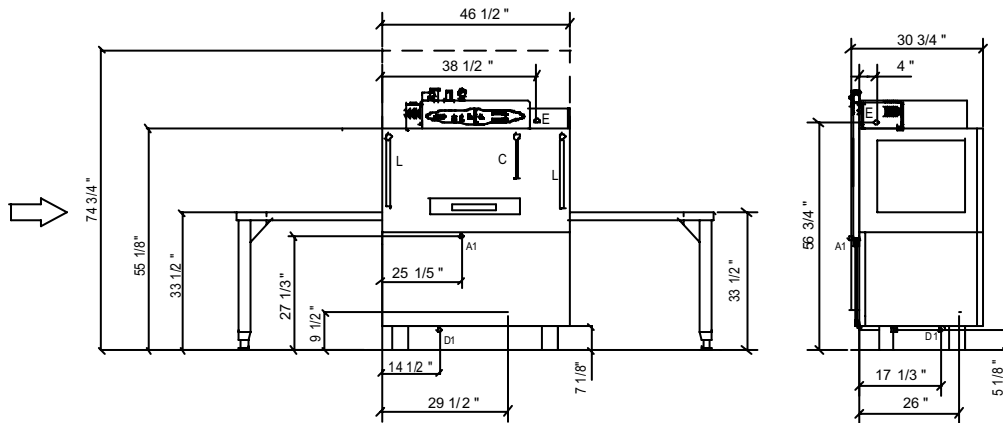
2.1 VISUAL INSPECTION

Before installing the unit, check the package and machine for damage. All machines have been tested, inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. Visually inspect the exterior of the package. Any damage should be noted and reported to the delivering carrier immediately. If damaged, open and inspect the contents with the carrier.

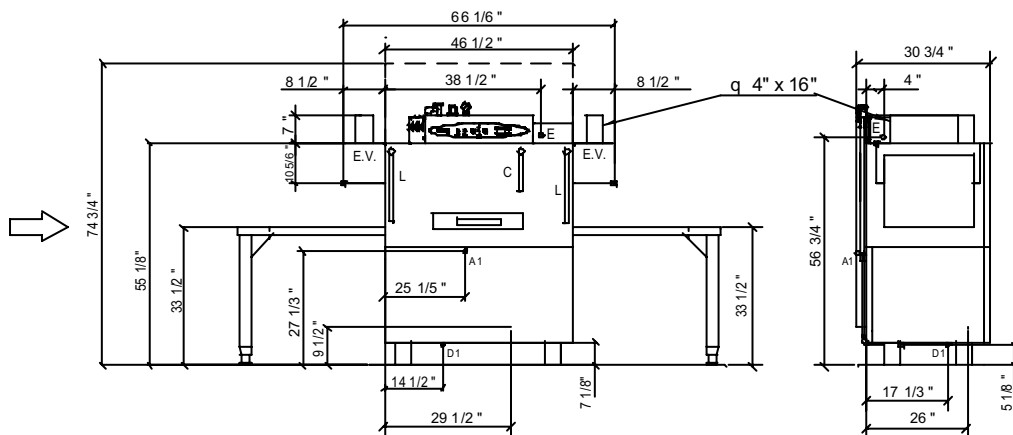
In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment notify the carrier. Notification should be made verbally as well as in written form. Request an inspection by the shipping company of the damaged equipment. Also, contact the dealer through which you purchased the unit.

2.2 INSTALLATION DIAGRAMS

FI-200W L



FI-200W L+EV



- A1:** Dishwasher water inlet. 3/4" NPT male connection.
- D1:** Dishwasher drainage
- E:** Dishwasher electrical connection
- E.V.:** Steam extractor



L Long curtains



C Short curtains

Fig. 1

2.3 DATA PLATE

The data plate is located on one side of the machine. Under no circumstances should the data plate be removed from the unit. The data plate is essential to identify the particular features of your machine and is of great benefit to installers, operators and maintenance personnel. It is recommended that, in the event the data plate is removed, you copy down the essential information in this manual for reference before installation. Any transformations or changes made on the machines during installation should be reflected on the data plate.

2.4 POSITIONING

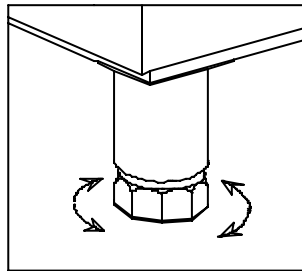
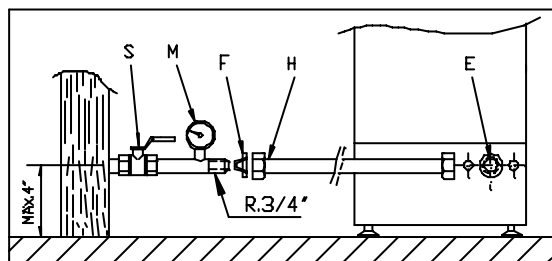


Fig.2

Leveling and adjusting the height of the appliance is done by turning the leveling stands (Fig. 2) to the desire height. Ensure that the unit is level before making any connections

2.5 WATER INSTALLATION

Water installation is carried out as shown in figures 3 and 4. The hot water line to the dishwasher must provide between 20^{±5} psi of flow rinse pressure. The hot water heater should be set to deliver ≥140°F (≥ 60°C) water temperature to the dishwasher for best results. Use ¾" copper tubing inlet line.



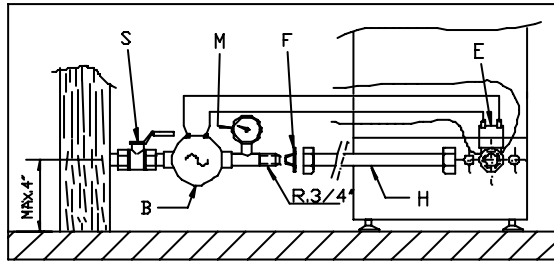
- S = Gate valve
- F = Filter
- H = Hose
- E = Fill valve
- M = Pressure Gauge

Fig.3

CAUTION: Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a “no flow” condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the solenoid valve is opened during the cycle.

Pressure gauge shall have increments of 1 psi or smaller and shall be accurate to ± 2 psi in the 15-25 psi range. The display of the pressure shall be clearly visible to the operator of the machine.

If the water pressure is less than 20 psi (1.4 kg/cm²), installation of a water pump is required as shown in Fig. 4. In areas where the pressure fluctuates or is greater than the recommended pressure, it is suggested that a water pressure regulator be installed.



- S = Gate Valve
- F = Filter
- H = Hose
- E = Fill valve
- B = Electro pump
- M = Pressure Gauge

Fig.4

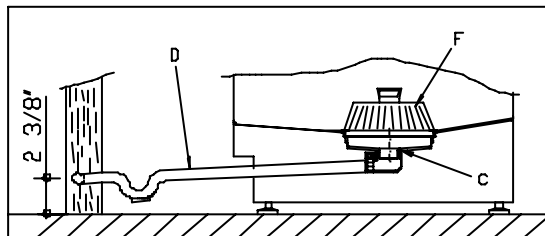
It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction, prior to connecting to the machine.

FOR HARD WATER SUPPLIES WITH A HARDNESS OF OVER 2 GRAINS OR 10°F AND PH BEYOND THE RANGE OF 7.0 – 8.5, A WATER CONDITIONER MUST BE INSTALLED.

Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

2.6 WATER DRAINAGE

Attach the drain hose as shown in Fig. 5. It is recommended to affix a siphon pipe to prevent odors. All piping from the machine to the drain must be a minimum 1-1/2" I.P.S. There should also be an air gap between the machine drain line and the drain. For natural overflow efficiency use floor drain.



- D = Drain hose
- C = Drain collector
- F = Scrap Basket

Fig.5

ELECTRICAL CONNECTION

- To access to the electrical terminal block (E) (Fig. 1), remove the top cover. Connect the wires as shown in figure 6. Insert the power cord through the cord guide on the back of the machine and make sure to leave enough cable. Tighten the connections.
- Leave free $\geq 39"$ (≥ 1000 mm) of power cord from the rear to facilitate cleaning of the location of the dishwasher.
- Install a circuit breaker in accordance to required consumption guidelines and data plate.
- The machine must be grounded.

WARNING: Electrical Shock Hazard

It is the personal responsibility and obligation of the customer to contact a qualified electrician to assure that the electrical installation is adequate and is in conformance with the National Electrical Code, ANSI / NFPA 70 – latest edition and all local codes and ordinance.

FI-200W L and FI-200W R

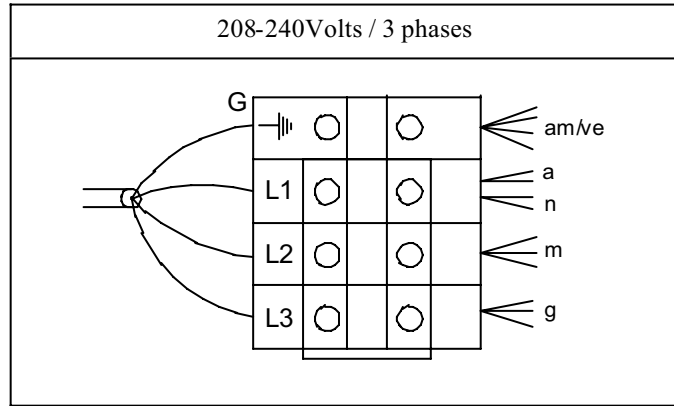


Fig.6

am/ve: yellow/green; a: blue; n: black; m: brown; g: grey

2.7 CHEMICAL CONNECTIONS AND OTHERS

This machine must be operated with an automatic detergent feeder and, if applicable, an automatic chemical sanitizer feeder, including a visual means to verify that detergents and sanitizers are delivered or a visual or audible alarm to signal if detergents and sanitizers are not available for delivery to respective washing and sanitizing systems. Please see instructions for electrical and plumbing connections located in this manual and in the feeder equipment manual.

Fagor does not recommend any brand name of chemicals or chemical dispensing equipment. Contact your local chemical distributor for questions concerning these subjects.

See figure 7 to connect electrically detergent and rinse dosers as well as the table limit switch.

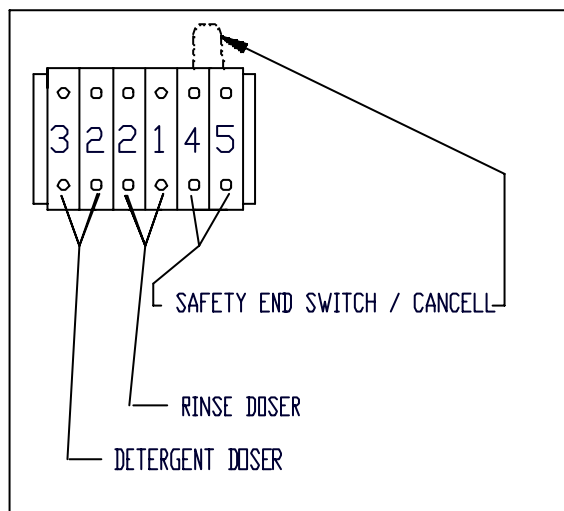


Fig.7

3 INSTALLATION CHECKLIST

CHECK OFF THE FOLLOWING ITEMS AS THEY ARE COMPLETED BEFORE PROCEEDING TO OPERATE OR SERVICE THE DISHWASHER.

- Has the dishwasher been checked for concealed/hidden damage?
- Has the dishwasher been properly leveled?
- Has the service voltage been checked to ensure that it meets the requirements listed on the dishwasher data plate?
- Has the dishwasher circuit breaker/service breaker been sized correctly, given the dishwasher's amperage requirements?
- Has the dishwasher been properly grounded?
- Is the water valve open?
- Is the incoming water supply at 20 - 40 psi?
- Is the incoming water supply line at 3/4" minimum?
- Has been installed with the supplied water hose?
- Is the water hose not kinked?
- Has the incoming water supply been flushed for debris?
- Is the hot water supply at the minimum recommended temperature as indicated on the dishwasher plate?
- Is the water hardness =2.0gpg/34.2ppm and PH level 7 - 8.5ph ?
- Has the drain plumbing been installed according to the instructions in this manual?
- Is the drain hose not kinked?
- Is the overflow tube with the O-ring fitted in its position inside the tank

MODEL NO. _____

SERIAL NO. _____

INSTALLATION DATE _____

SERVICE REP. NAME _____

PHONE N° _____

4 USE

4.1 USE OF THE APPLIANCE

FI-200W L and FI-200W R

Set the selector (1), (fig.8), to the preparation position (∇) (2). The pilot light will come on (3) and the wash and rinse water will start filling the machine. Rinse (booster) elements will come on before finishing the fill (Pressure switch: P11), heating up the water in the booster. Once fill is completed (Pressure switch: P12) the wash (tank) element will come on, heating up the water in the tank and maintaining it at the proper temperature.

The machine is ready when the rinse thermometer (4) indicates $158 \div 185^{\circ}\text{F}$ / $70 \div 85^{\circ}\text{C}$ and the wash thermometer (5) indicates 160°F / 71°C . When the wash pumps work the rinse thermometer (4) will indicate $185 \div 194^{\circ}\text{F}$ / $85 \div 92^{\circ}\text{C}$.

Motor has 2 advance speeds. Depending on the speed selection CMV1 or CMV2 relay will be activated, but only one. The signal that the motor will receive is different if it comes through one or the other:

- Selector set to position (I), slow speed for a more intense wash. (Fig.8)
- Selector set to position (II), fast speed to wash less dirty crockery. (Fig.8)

When the advance is activated the pilot light comes on (6)

Separate starter switches ensure wash and rinse are energized only when a rack is in place, reducing water and chemical consumption.

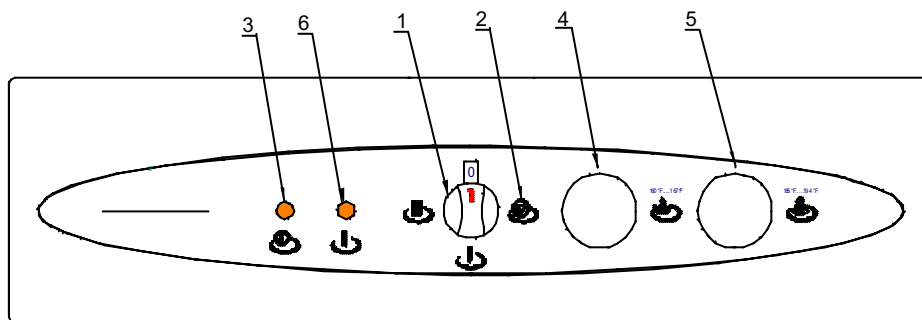


Fig.8

4.2 ADVICE ON HOW TO WASH CORRECTLY

Before washing.

Ensure that:

- The washing tub filters and pump suction filters are in place.
- The overflow tube is place.
- The curtains are placed correctly.
- The doors are closed.
- The detergent and rinse-aid dispensers are full.
- The dimensions of the items to be washed are not greater than the dishwasher's working dimensions.

Preparing the crockery

- Remove big pieces of food from dishes before putting them in the baskets.
- Wash glassware first.
- Put plates in the baskets, making sure each is in its separate rack (Fig. 10).
- Put glasses in upside down.
- Put cutlery in the cutlery baskets handles down. Spoons, knives and forks can be mixed (Fig.9)
- Put the special cutlery baskets in the base baskets.

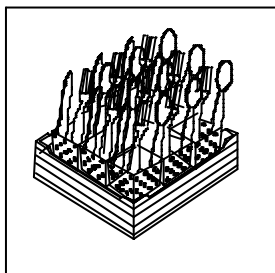


Fig. 9

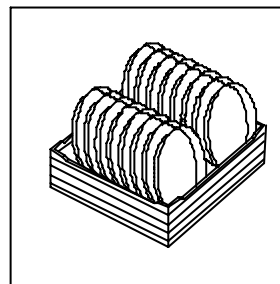


Fig.10

During the washing cycle.

- Only use commercial grade detergent low suds., supplied by well-respected companies.
- Put the amount of detergent recommended by the manufacturer.
- Disconnect the machine if it does not work correctly or there is a fault. For any eventual repair, only use an authorised technical assistance centre and request the use of original parts.
- Stop the machine periodically, remove the filters from the tub and clean the residues that are deposited on them. Do not remove the suction filters from the pump when the tub is full.
- Check the level of detergent and rinse-aid in their respective containers.

After the washing cycle.

- Turn the switch to position “0” to turn the machine off (Fig. 8).
- Open the door and secure it with the fixing stop.
- Remove the overflow tube to empty the washing tub (Fig.11).
- When the tub is empty, remove the curtains and the filters to clean them appropriately (Fig. 12 and Fig. 13).

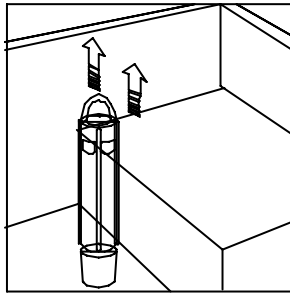


Fig.11

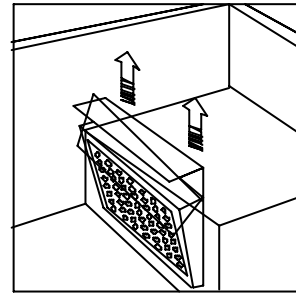


Fig.12

- Clean the washing and rinsing injectors (Figs.14, 15, 16)
- Clean the tub appropriately with a water jet, removing all the residues that are stuck to it.
- Clean the racks daily.

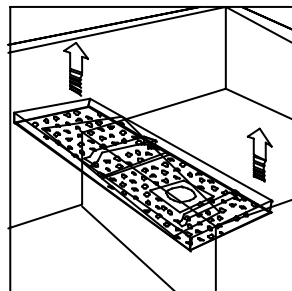


Fig. 13

- Re-assemble all the devices in their correct place, keeping in mind the following:
 - The short side of curtains should face towards the dishes entrance.
 - The nozzles should be aimed towards the dishes.
- Leave the doors open to avoid bad smells forming.

Saving energy

- The machine only works when baskets are put in.

Dispensers

- Detergent and rinse aid dispensers are not supplied with the machine. These are necessary for a correct final wash and rinse.
- The connections between the detergent doser, the rinse doser and the safety end switch with the binding clamp should be done as shown in figure 7, page 5.

Exit table rack safety end switch

- This safety switch is to avoid rack jam at exit table if it is required. See fig.7, page5 for electric connection.

5 MAINTENANCE

Regular wiping of the outside surface with a soft, damp sponge or cloth and mild detergent is all that is necessary to maintain the good looks of your dishwasher.

- Check the rinse aid and detergent dispenser from time to time and refill when necessary.
- Check and clean the injectors frequently, see figures 14,15 and 16.

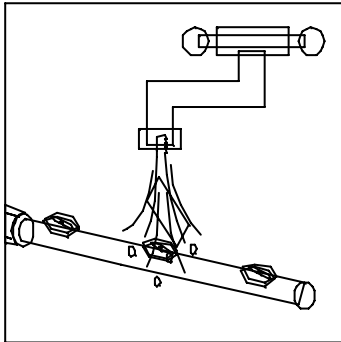


Fig.14

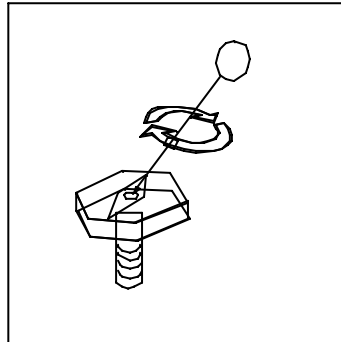


Fig.15

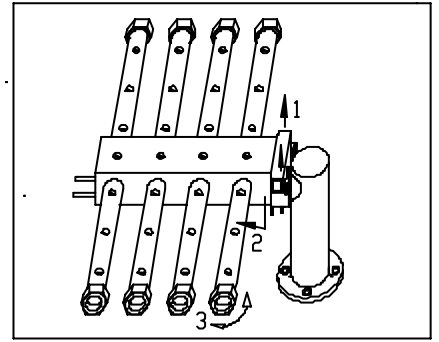


Fig.16

- If the machine is not going to be used for a long time, cover its surfaces with a coating of petroleum jelly.
- Do not use the machine to wash iron objects.
- Do not use corrosive products, such as hypo-sodium chloride (bleach), hydrochloric acid, acids in general, steel wool or scrapers, for the internal and external cleaning of the machines.

Prolonged disuse of the machine:

If the machine is not used for a long time it is advisable to start the machine with clean water while it is empty, to avoid unpleasant smells forming and dirt accumulating.

6 CLUTCH ADJUSTMENT

If it was necessary to adjust the clutch, proceed as follows:

Loosen the bolt on the top of the clutch with a no. 13 wrench and with a no. 4 Allen wrench, loosen the side bolt. (Fig 17, Fig. 18)

With a torque wrench adjusted to 12 Nm and a “C” wrench (Fig. 19) which will hook onto one of the lateral holes of the clutch, tighten this clockwise until the torque wrench indicates that the required torque has been reached (the end of the wrench “clicks”). (Fig. 20).

Once this has been done, tighten the top and lateral bolts. (Fig 19, Fig. 20)

Should a torque wrench not be available, tighten only with the “C” wrench and then check the tightness with the dishwasher loaded with baskets and dishes.

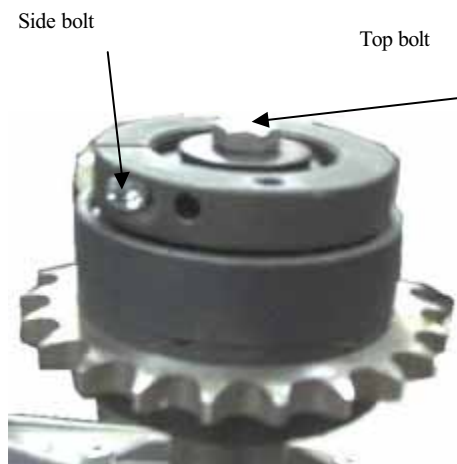


Fig. 17

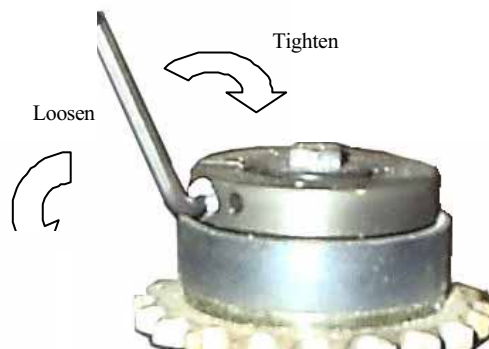


Fig. 18

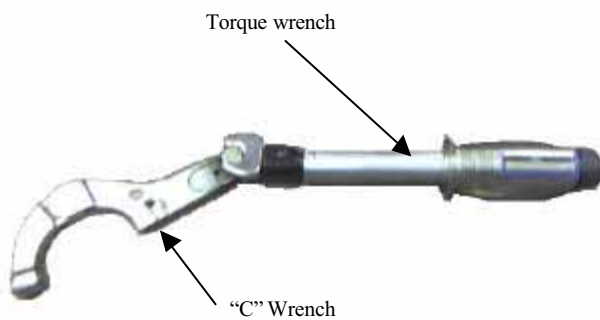


Fig. 19



Fig. 20

7 TROUBLESHOOTING

First be sure that the “Installation Checklist” in this manual was completed and check out that all the items still remains in effect. For support or further service information contact Fagor Service Department toll free at 1-866-GO-FAGOR (46-32467). The diagnosing, testing and repair of any electrical, mechanical device is to be performed solely by trained service technicians.

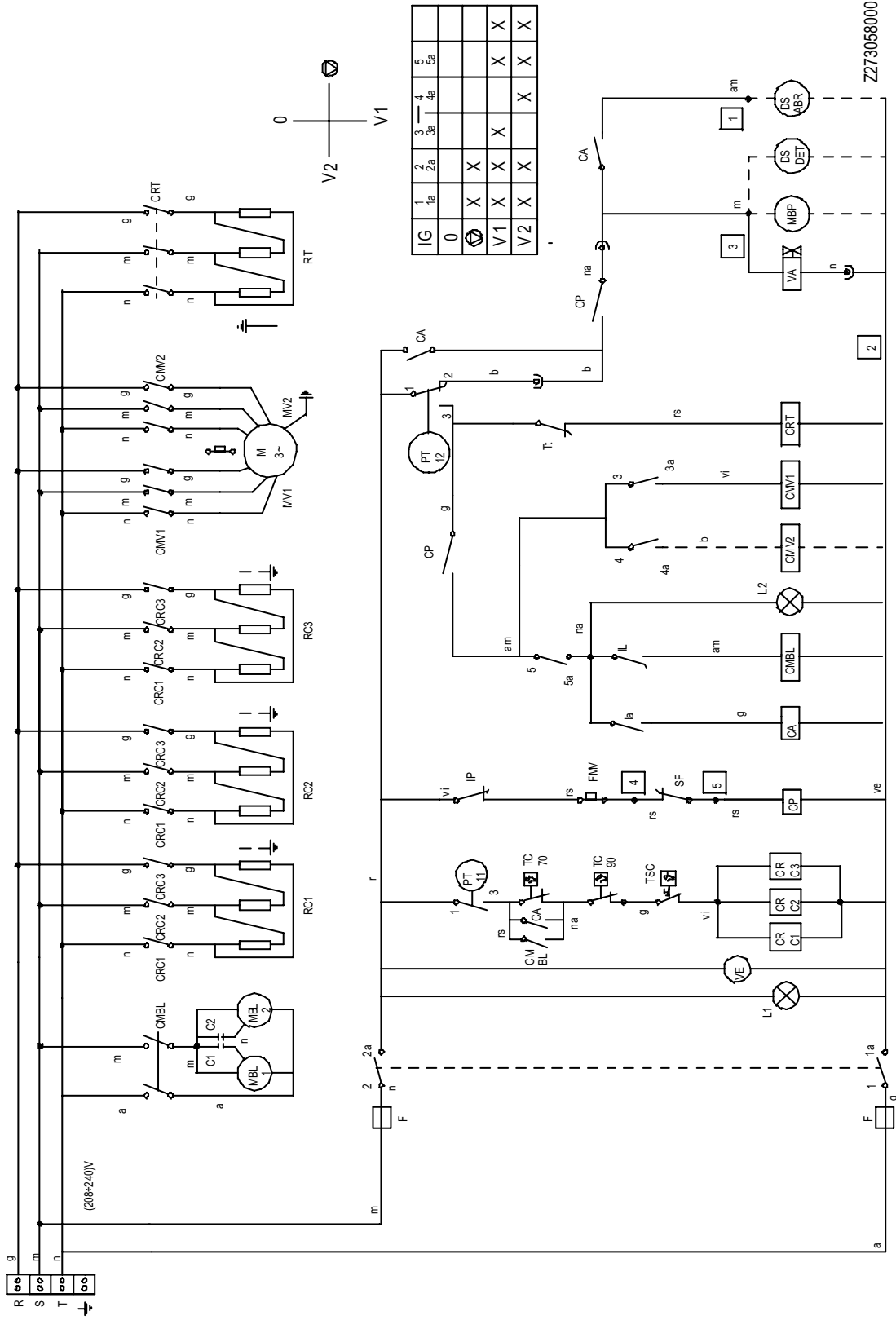
SYMPTOM	POSSIBLE CAUSE	ACTION
Dishwasher will NOT FILL after the door is closed. Selector in ∇ position, light ① is not illuminated.	Service breaker tripped	Reset. If the breaker trips again, contact an electrician to verify amps or possible short.
	Machine not connected to power source.	Verify the unit is connected to a hot (live) feed. Verify voltage and proper phasing.
	Faulty selector switch (Ig)	Verify the wiring of the switch; if correct, replace the switch. (Position 1-1a / 2-2a)
	Fuses blown up	Check out fuses. Replace if necessary.
Dishwasher will NOT FILL after the door is closed. Selector in preparation (∇) position. Power “ON” light (L1) is illuminated.	No water to machine	Verify hose is not blocked or kinked, water valve is open and pressure > 20 PSI.
	Overflow tube not attached or broken / missing O-ring.	Check condition of overflow tube.
	Faulty door switch	Verify the wiring of the switch; if correct, replace the switch (Ip) or the door relay (Cp)
	Faulty fill valve (VA)	Verify the wiring and voltage received; if correct replace fill valve.
Dishwasher will NOT RUN after the door is closed. Selector in advance position, Power “ON” light (L1) is illuminated., the unit has completed the filling and heating cycle.	Fill pressure switch’s pipe clogged	Drain the unit and fill again
	Faulty fill pressure switch (P12)	Verify position change 1-2 / 1-3 to pressure switch. Possibly stuck
	Faulty door switch	Verify the wiring of the switch; if correct, replace the switch (Ip) or the door relay (Cp)
	Faulty selector switch (Ig)	Verify the wiring of the switch; if correct, replace the switch. (Position 3-3a / 4-4a)
	Faulty motor relay (CMV1/CMV2)	Ohm out relay, closed when solenoid receiving voltage. If not replace .
	Faulty motor (MV1/MV2)	Verify the wiring and voltage received; Replace if necessary.
Dishwasher will NOT WASH after the door is closed. Selector in advance position, Power “ON” light (L1) is illuminated, the unit has	Faulty selector switch (Ig)	Verify the wiring of the switch; if correct, replace the switch. (Position 5-5a)
	Faulty washing switch (IL)	Verify it changes position of the switch; If not replace it.
	Faulty wash pump relay (CMBL)	Ohm out relay, closed when solenoid receiving voltage. If not replace .

completed the filling and heating cycle, conveyor moving and a rack is in wash area.	Faulty wash pump (MBL1 & MBL2)	Verify that the wash pump is getting power. If so, replace the pump. Ohm out windings.
Dishwasher will NOT RINSE after the door is closed. Selector in advance position, Power "ON" light (L1) is illuminated, the unit has completed the filling and heating cycle, conveyor moving and a rack is in RINSE area.	Faulty selector switch (Ig)	Verify the wiring of the switch; if correct, replace the switch. (Position 5-5a)
	Faulty washing switch (Ia)	Verify it changes position of the switch; If not replace it.
	Faulty rinsing relay (CA)	Ohm out relay, closed when solenoid receiving voltage. If not replace .
	Faulty rinse valve (VA)	Verify the wiring and voltage received; if correct, ohm out. If open replace valve.
	No water to machine.	Verify hose is not blocked or kinked, water valve is open and pressure > 20 PSI.
Dishwasher FILLS slowly and/or rinse is weak.	Clogged or obstructed rinse arms	Remove and clean rinse arms/nozzles.
	Poor water pressure	Verify the inlet water pressure is at a min of 20 psi and max 40 psi.
	Hose strainer is clogged	Check strainer or any filters installed.
	Bad fill valve (VA)	Valve can be clogged or lazy, causing poor flow.
Dishwasher RUNS. WASH WATER NOT REACHING REQUIRED TEMPERATURE.	Temperature gauge in front panel is defective.	Check temperature with a calibrated thermometer. Replace temperature gauge if necessary.
	Misadjusted/faulty thermostat (Tt)	Verify operation and setting of thermostat; replace if necessary. If thermostat is not receiving voltage, check wiring.
	Faulty heater contactor (CRT)	Ohm out tank contactor, closed when solenoid receiving voltage. If not replace .
	Tank heating element (RT) faulty.	Ohm out element check for continuity; if open, replace heater.
Dishwasher RUNS. RINSE WATER NOT REACHING REQUIRED TEMPERATURE.	Temperature gauge in front panel is defective.	Check temperature with a calibrated thermometer. Replace temperature gauge if necessary.
	Faulty fill pressure switch (P11)	Verify position change 1-3 to pressure switch. Possibly stuck.
	Misadjusted/faulty thermostat (Tc)	Verify operation and setting of thermostat; replace if necessary. If thermostat is not receiving voltage, check wiring
	Faulty high limit stat (Tsc)	Reset thermostat, depressing red button. Replace if necessary.
	Faulty heater contactors (CRC1, CRC2, CRC3)	Ohm out booster contactors, closed when solenoid receiving voltage. If not replace .
	Rinse heater (RC1, RC2, RC3) faulty	Ohm out element check for continuity; if open, replace heater.
Dishes are not coming out clean enough.	Machine temperatures or pressure may not be to specification.	Verify that the water pressure is at a min. of 20psi and max 40 psi. The water temperature should be at the recommended 140° F.

<i>(Cont.)</i>	None or too little detergent being used.	Make sure detergent to dish ratio is fallowed to manufacturer specification.
	Improper loading or overloading	Read chapter on proper loading of dishwasher.
	Washing and or rinsing arms jammed or dirty.	Check that arms rotate properly, and that rinsing and washing nozzles are not blocked or dirty. Clean if necessary

8 ELECTRICAL DIAGRAM

FI-200 W



9 COMPONENTS

(A)(B) = Connection point with R	la = Rinse microswitch	R = Generator rele
(C) = Connection points 160/200 without drying nor condenser	IG = Main switch	(R)(N) = Water heater feeding
C, C1, C2 = Condenser	IL = Wash microswitch	Ra = Rinse and fill auxiliary relay
CA = Rinse auxiliary relay	Im 1/2/3 = On pushbutton	RC11/12/13/21/22 = Boiler heating element
CMBL 1/2/3 = Wash pump contactor 1/2/3	IPA = Rinse door microswitch	RS = Drying heating element
CMBPL = Pre-Wash pump contactor	IP 1/2/3 = Off pushbutton	RTA = Rinse heating heater
CMEV = Exhaust motor contactor	IPPL = Pre-wash door microswitch	RT2 = Tank heater 2
CMS = Drying motor contactor	IPT1/2/3 = Tank door microswitch 1/2/3	RT11/12 = Tank heater 1
CMV 1/2 = Advance contactor 1/2	L1 = Operation light	SF = Safety end switch
CMREC = Motor recover contactor	L2 = Start light	TA = Rinse thermostat
CRC 11/12/13/21/22 = Boiler heating contactor	MB = Fill and rinse pump	TC, 1/2 = Boiler thermostat
CRS = Drying heating element contactor	MBA = Rinse pump	TPA = Rinsing timer
CRTA = Rinse heating contactor	MBL1/2/3 = Wash pump 1/2/3	TPT = Start timer
CRT2 = Tank heating contactor 2	MBP = Pressure pump	TPS = Drying timer
CRT11/12 = Tank heating contactor 1	MBPL = Pre-wash pump	TREC = Recover thermostat
CP = Door relay	MEV = Exhaust steam motor	TRF = Trasformer
DS.ABR. = Rinse doser	MREC = Recover motor	TS = Drying thermostat
DS.DET. = Detergent doser	MS = Drying motor	TSC, 1/2 = Boiler Hi-limit thermostat
F = Fuse	MV = Motor advance	Tt 1/2 = Tank thermostat 1/2
FMEV = Thermic switch exhaust motor relay	Pa = Rinse level switch	VA = Fill and rinse valve
FML 1/2/3 = Thermic switch pump 1/2/3	PE1/2 = Emergency stop	VE = Switchboard fan
FMS = Drying motor thermic relay	PPL = Pre-wash level switch	VEV = Exhaust condenser solenoid valve
FMREC = Thermic switch recover motor	PT11 = Wash level 1 and heating switch	VL 1/2 = Tank fill valve
FMV = Thermic switch rack pulling motor	PT12 = Wash level 1 and fill switch	VG = Main valve
	PT21 = Wash level 2 and heating switch	VREC = Outlet solenoid valve
	PT2/PT22 = Wash level 2 and fill switch	
	PT3 = Wash 3 fill pressostat	

11 RECOMMENDED SPARE PARTS

<i>Part Number</i>	<i>Description</i>
Z129502	Heating element for booster 11500 W. 230V.
Z203014	Booster thermostat
Z213014	Hi-limit booster thermostat
Z203050	Contactora for booster and tank 230V. 50/60 Hz.
Z203005	Pilot light
Z273006	Level pressure switch
Z203511	Pump Motor 60Hz.
Z121741	Heating element for tank 9600W. 230V.
Z211903	Rinsing nozzle
Z213007	Relay for door switch, motor and pump motors 230V. 50-60Hz.
Z683087	Relay for rinsing 230V. 50/60 Hz.
Z718415	Water fill valve
Z718405	Tank thermostat (Z203014)
V321300	10 MF Capacitor
Z100522	Magnetic door switch
Z273059	Fuse
Z100522	Wasing and rinsing switch
Z718418	Syphon (vacuum breaker)
Z295003	Motor
Z273005	Selector switch
Z273060	Temp gauge
Z103074	Safety pressure switch

12 FAGOR COMMERCIAL LIMITED WARRANTY

Warranty:

Fagor Commercial, Inc. ("Fagor") warrants to the first-end-user purchaser (the "User") that the Fagor brand equipment sold hereunder, except for parts and accessories which carry the warranty of a supplier (the "Equipment") will be free from defects in material and factory workmanship under normal conditions of use and maintenance for a period of (1) one year from the date of Installation (Warranty Commencement date), but in no event to exceed (15) fifteen months from the date of shipment.

Warranty Coverage:

If there is a defect in material or factory workmanship covered by this Warranty reported to Fagor during the period the applicable Warranty is in force and effect, Fagor will repair or replace, at Fagor's option, that part of the Equipment that has become defective. Fagor will cover labor cost within one year from the Warranty Commencement date or 15 months from shipment date, whichever occurs first with the exception of the Glasswasher models which will be a 90 days labor and one year parts warranty. Fagor shall bear all labor costs in connection with the installation of these replacement parts, provided that, the installation is conducted by Fagor or its authorized representative. Charges for warranty travel time to round trip total of (2) two hours or up to 100 miles total. Any charges exceeding those stated herein must have prior authorization by Fagor.

Parts Warranty Coverage:

Fagor warrants all new machine parts produced or authorized by Fagor to be free from defects in material and workmanship for a period of 90 days from the Warranty Commencement Date. If any defect in material and workmanship is found to exist within the warranty period, Fagor will replace the defective part without charge. Defective parts become the property of Fagor.

Fagor will have no responsibility to honor claims received after the date the applicable Warranty expires. **Notwithstanding the foregoing, any claim with reference to the Equipment or any parts therefore for any cause shall be deemed waived unless submitted by the User to Fagor within thirty (30) days after the date the User discovered, or should have discovered, the claim.** In connection with all claims under this Warranty, Fagor will have the right, at its own expense, to have its representatives inspect the Equipment at the User's premises and to request all of User's records pertaining to the Equipment to determine whether a defect exists, whether the conditions set forth in this Warranty have been satisfied, and whether or not the applicable Warranty is in effect.

Exclusions from and Conditions to Warranty Coverage:

This Warranty does not cover parts or accessories, which (a) carry the warranty of a supplier or (b) are, abused by incorrect (noncommercial) grade detergents. Application of this Warranty is further conditioned upon the following:

- **Installation.** The Equipment must be properly installed in accordance with Fagor's installation procedures and instructions and reviewed and tested by Fagor's authorized representative.
- **No Alteration.** The Equipment must not have been modified or altered from its condition at the date of original installation.
- **Use.** FAGOR EQUIPMENT IS NOT DESIGNED FOR PERSONAL, FAMILY OR HOUSEHOLD PURPOSES, AND ITS SALE FOR SUCH PURPOSES IS NOT INTENDED. IN THE EVENT THE EQUIPMENT IS SO USED, THIS WARRANTY SHALL BE NULL AND VOID, AND THE EQUIPMENT SHALL BE DEEMED TO HAVE BEEN SOLD "AS IS-WHERE IS" WITHOUT ANY WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- **Water Quality.** Water supply should have hardness between .25 and 2.0 grains per gallon, pH level between 7.0 – 8.5 and TDS level at 250 PPM. Equipment failure due to inadequate water supply is not covered by this Warranty.
- **Proper Maintenance and Operation.** The Equipment must be properly maintained and operated in accordance with Fagor's maintenance and operating procedures. All service, labor and parts must be acquired from Fagor or its authorized service representative for the User's area.
- **Minor Parts.** No labor will be associated with the replacement of minor items such as, and not limited to, switches, pilot lights, gauges, fuses, etc. or replacement of wear items such as curtains, squeeze tubes, etc.
- This warranty is void if failure is a direct result of handling &/or transportation, fire, water, accident, misuse, acts of God, attempted repair by unauthorized persons, improper installation, improper reparation, if serial number has been removed or altered, or if unit is used for purpose other than it was originally intended.

Failure to comply with any of these conditions will void this Warranty. In addition, this Warranty does not cover defects due to apparent abuse, misuse or accident.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY REPRESENTATION OF PERFORMANCE AND ANY IMPLIED WARRANTIES OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO OTHER WARRANTIES ARE AUTHORIZED ON BEHALF OF FAGOR UNLESS SPECIFICALLY ISSUED BY FAGOR.

Fagor shall have no liability for incidental or consequential losses, damages or expenses, loss of sales, profits or goodwill, or punitive or exemplary damages directly or indirectly arising from the sale, handling or use of the Equipment or from any other cause relating thereto, whether arising in contract, tort, warranty, strict liability or otherwise. Fagor's liability hereunder in any case is expressly limited, at Fagor's election, to the repair or replacement of Equipment or parts therefore or to the repayment of, or crediting the user with, an amount equal to the purchase price of such goods.



Fagor Commercial, Inc.

6992 N.W. 82nd Ave.

Miami, Fl. 33166

Tel: (305) 779 0170

Fax: (305) 779 0173

1-866-GO-FAGOR

www.fagorcommercial.com