

MODEL FABY 2

SERVICE MANUAL Manual n° 151010 Ott. 2010

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INSTRUCTION MANUAL

Before using the machine please read this manual carefully.

Please note that non-compliance to the manual releases the manufacturer from any responsibility.

The machine must not be used for purposes other than the ones shown in this manual. Any improper use of the machine will nullify warranty conditions. The slush machine should not be placed close to explosive or fire hazards and should be installed in accordance with local fire and electrical codes. This manual provides basic infomation about the slush machine. The illustrations and specifications are not binding in the tile.

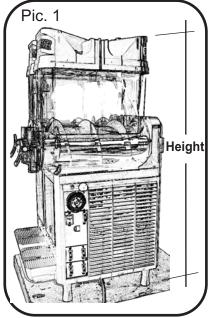
We reserve the right to make changes to the slush machine without notice, and without incurring any obligation to modify or provide new parts for slush machine built prior to date of change. Do not attempt to service or operate the slush machine until instructions and safety precautions in this manual are read completely and are thoroughly understood. If problems develop or questions arise in connection with installation, operation or servicing of the slush machine, contat your distributor.

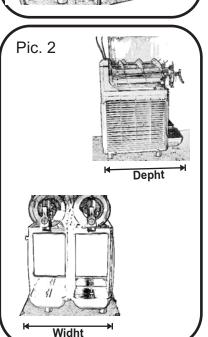
SHIPMENT and TRANSIT

The slush machine has been assembled, operated and inspected at the factory. Upon arrival at the final destination, the complete slush machine must be checked for any damage which may have occurred during transit.

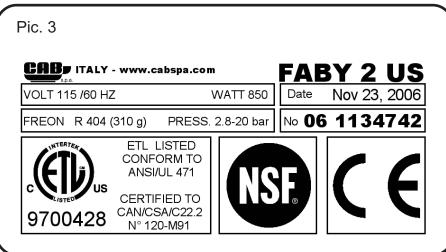
With the method of packaging used, the slush machine should arrive in excellent condition. The carrier is responsible for all damage in transit, whether visible or concealed.

Installation of the slush machine involves moving the slush machine close to its permanent location; removing all crating, setting in place, assembling parts and cleaning.

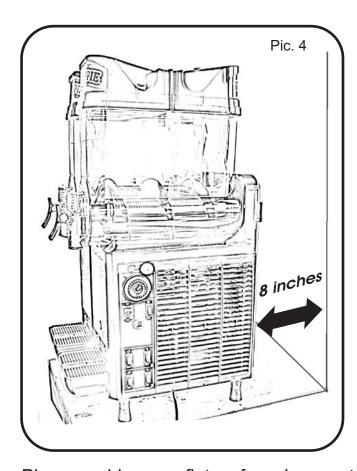


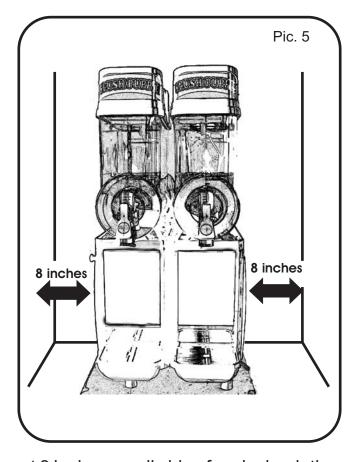


| | | MODEL 1 | MODEL 2 | MODEL 3 |
|----------------|--------|-----------------------------|-----------------------------|-----------------------------|
| ELECRTICAL | | 1 phase, 115Vac 60 Hz | 1 phase, 115Vac 60 Hz | 1 phase, 115Vac 60 Hz |
| POWER ABSORBED | | 530 W | 850 W | 1100 W |
| BOWL | | 2.75 gallon | 2.75 gallon | 2.75 gallon |
| Dimensions | WIDTH | 7.87 " | 15.75 " | 23.62 " |
| | DEPTH | 18.90 " | 18.90 " | 18.90 " |
| | HEIGHT | 33.08 " | 33.08 " | 33.08 " |
| NET WEIGHT | | 66 lbs | 114.40 lbs | 154 lbs |
| GAS | | R404a 5.3 oz | R404a 10.94 oz | R404a 13.75 oz |



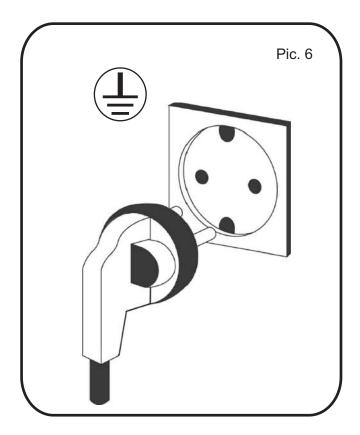
GENERAL USE OF THE MACHINE



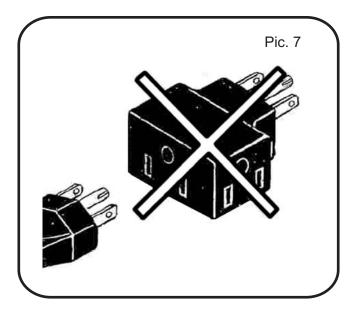


Place machine on a flat surface. Leave at least 8 inches on all sides for air circulation to avoid overheating. Optimum room temperature range: 77° F - 90° F.

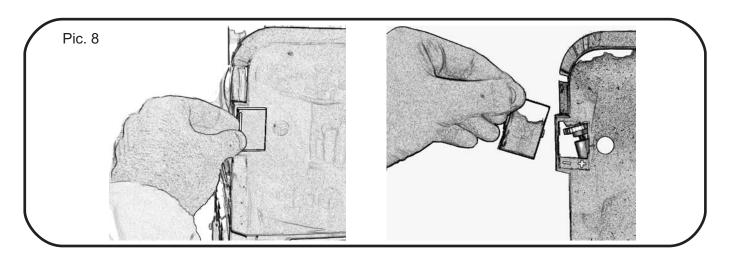
The slush machines are equipped with air-cooled condenser and require correct ventilation. The left side is the air intake and must be unobstructed. Air discharge out is on the right side. Do not obstruct the discharge.

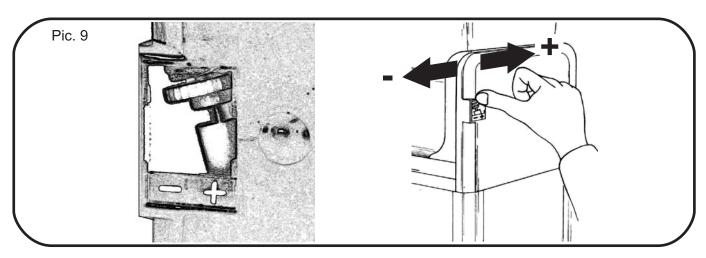


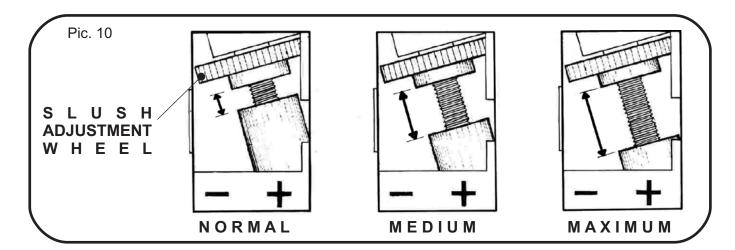
Pay attention to the voltage. Be sure there is a ground pole. Do not plug more than one machine in to one socket. Extensions cords not recommended.



INSTALLATION OF THE MACHINE







Adjustment for slush consistency

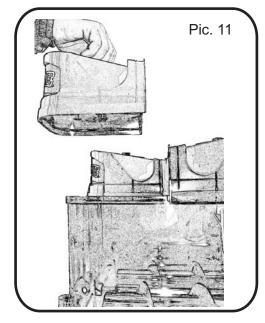
Remove the mini door for slush adjustment (see pict. 8) on the back part of machine. Rotate clockwise in order to increase the thickness.

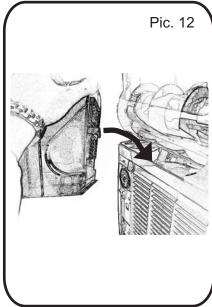
Rotate counterclockwise in order to decrease the thickness of the slush (see pict.9).

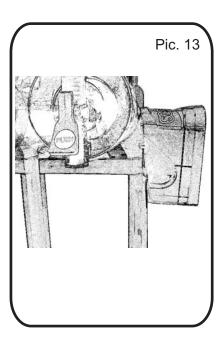
The machine has been adjusted for fruit granitas (normal).

Products containing milk, or other products which may take longer to freeze, adjust "+" as shown in picture.

INSTALLATION OF THE MACHINE

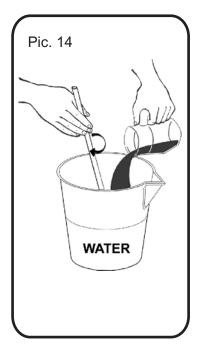


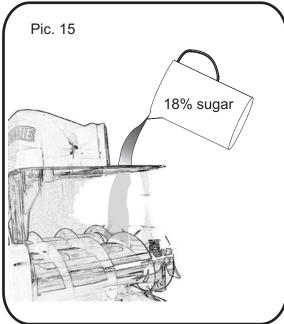


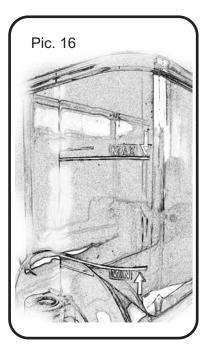


lift the upper lid gently and put it on one side of the machines drip tray panel by using the appropriate hook (see pict. 11, 12 & 13).

Never turn machine on without product in bowl or with only water in bowl.





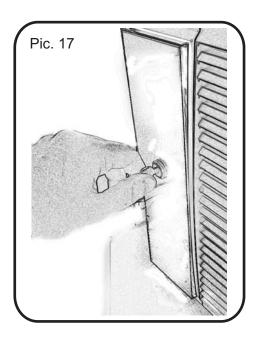


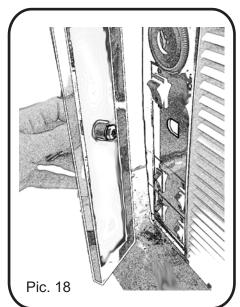
Mix product in a separate container if your product is a liquid concentrate, or powder, to be mixed with water, do not dilute more.

There must be at least 18% sugar content to avoid breakage of ice scraper blade. Pour syrup into the tank and set the level of liquid between MIN and MAX (Pic. 16). **Attention: do not pour hot product in the tank.**

Do not let product go below "MIN" line (keep at least 1" above cylinder at all times). Refill with refrigerated product when level is halfway between min and max levels (Pic. 16). This way there will always be frozen product available for customers.

CONTROL PANEL





To operate on the machine's switches open the cover for control panel with the lock key.

After settings of the machine's desired functions please lock the panel and keep the key in a safe place (see Pic. 17 & 18).

FUNCTION OF TIMER

Before starting the machine it is necessary to set the timer.

The TIMER switch, (**W**) as shown in picture 19, assembled on the control panel starts the night function (cold drink dispenser).

TIMER PROGRAMMING (Day & Night Function) For example, to have the machine work for slush (Day function) from 7:00 AM to 11:00 PM, push inwards all segments included in those hours, as shown in Picture 19. During the remaining hours the machine will work as a cold drink dispenser (Night function).

Set the triangle of the timer on the right local time. Please note AM - PM signs (pic. 19).

After timer setting it is possible to start the machine with some simple operations.

N.B.: Without the correct time setting, the timer will not work properly.

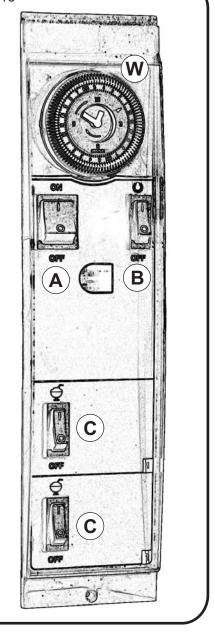
INSTRUCTIONS TO START THE MACHINE

Turn on the INDIVIDUAL BOWL FREEZE switches (C) as shown in picture 19.

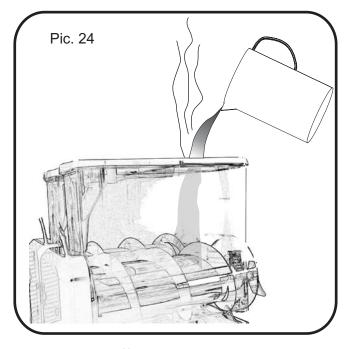
Turn on the MAIN POWER switch (A) as shown in picture 19. The main power switch starts all BOWL UPPER AGITATOR and main gear-motor too.

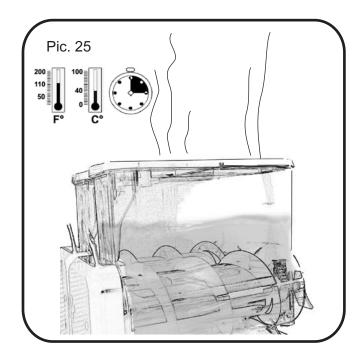
Turn on the LIGHT switch (B) as shown in picture 19.





CLEANING OPERATION

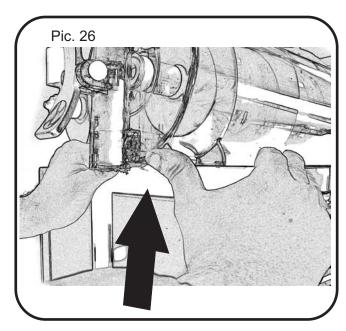




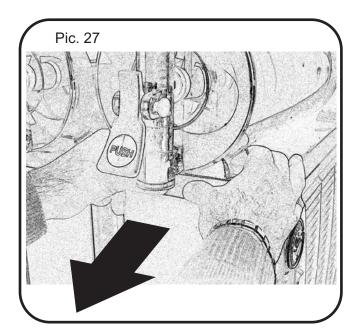
Turn power off.

Drain product. Fill bowl with tepid water, and wait 15 minutes (see Pict.24 & 25). To continue cleaning operation empty the bowl again.

For an easy removal of the bowl. Please follow instructions shown in Pictures 26 & 27.



Place fingers under the front lower part of the bowl, near the tap, and push upwards until legs pop out.

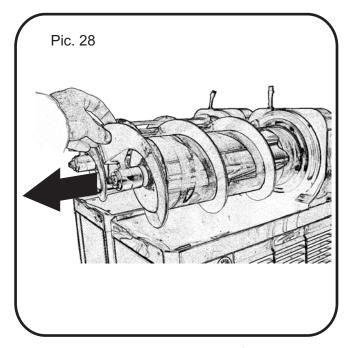


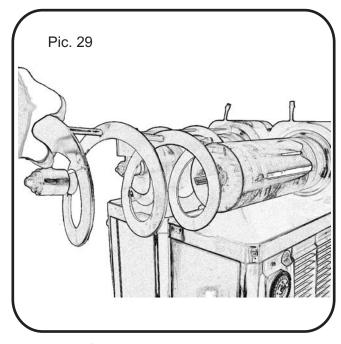
Place fingers behind the bowl legs and pull the bowl onwards slowly until it has been completely removed.

ATTENTION: Place all the components in a safe place in order to be sure they are not lost. Clean the components with dish-washing soap and tepid water. Never use abrasive cleaners.

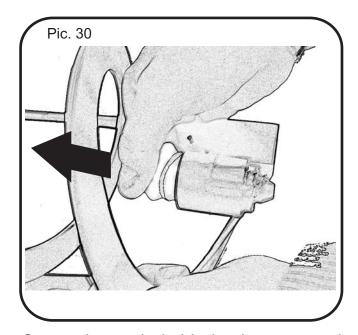
NOTE: Do not use too hot water to clean the plastic components.

CLEANING OPERATION

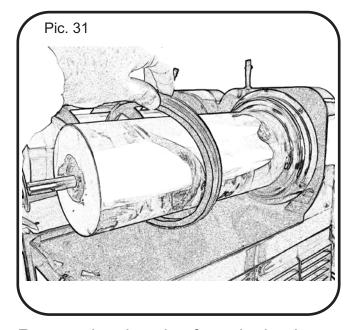




To remove spiral blade put fingers on the plate part of the spiral and pull it onwards gently as shown in Pict. 28 & 29.



Once the spiral blade is removed completely remove the suction cap gasket from the front spiral as shown in Pict. 30



Remove bowl gasket from the back part of the evaporator tube (see Pict. 31).

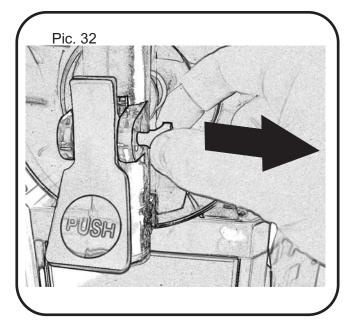
ATTENTION: Place all the components in a safe place in order to be sure they are not lost.

Clean the components with dish-washing soap and tepid water. Never use abrasive cleaners.

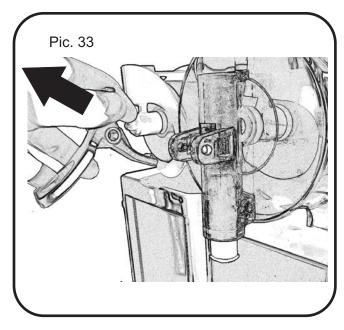
NOTE: Do not use too hot water to clean the plastic components.

CLEANING OPERATION

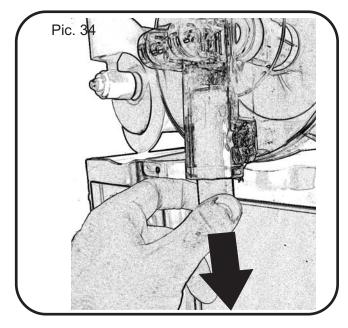
How to remove and clean the tap components



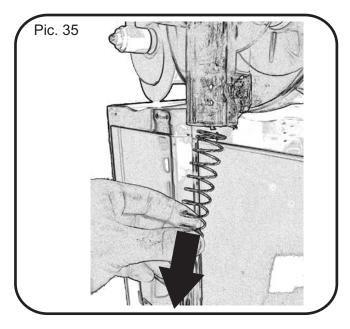
1 - Pull out the pin for handle fixing (see Pict. 32).



2 - Pull the handle from its place (see Pict. 33).



3 - Unthread the main tap pin by pulling it downwards (see Pict.34)



4 - Repeat the same operation for the tap spring (see Pict. 35)

ATTENTION: Place all the components in a safe place in order to be sure they are not lost.

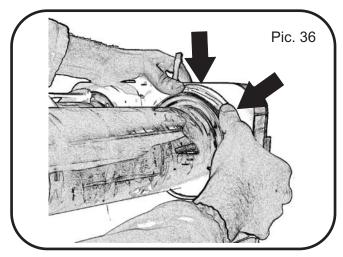
Clean the components with dish-washing soap and tepid water. Never use abrasive cleaners.

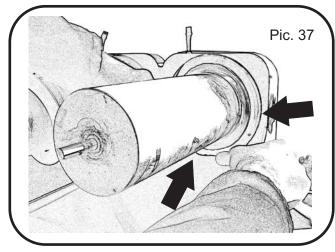
NOTE: Do not use too hot water to clean the plastic components.

REASSEMBLY OF THE COMPONENTS

Reassembly of the parts removed during the cleaning.

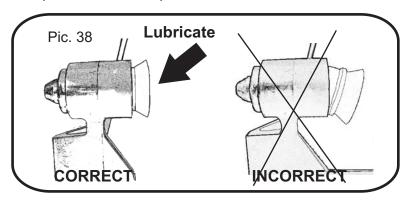
Before reassebling of parts, clean the evaporapor tube and drip trays & grids without using abrasive cleaners. Before reassemblyng the bowl gasket rinse it with water in order to facilitate the assembly of the bowl.





Put the bowl gasket in its position on the back part of the evaporator tube.

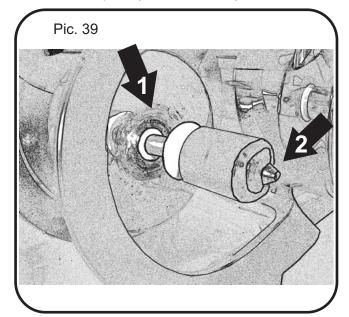
Once the bowl gasket is in its right position press it with your thumbs first in the lower part and then progressively towards its upper part (marking a circle with your fingers); until it is correctly fixed in its site (see Pict. 36 & 37).

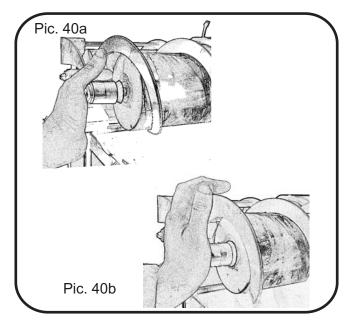


Insert the suction cap gasket into the spiral blade by pushing it deeply (see Pict. 38).

Lubricate with lubricanrs provided in the machine like shown in Picture 38.

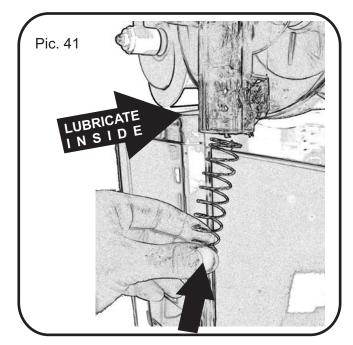
Lubricate the front part of evaporator tube as indicated in Pict. 39/1. Insert the spiral blade by pushing it gently and deeply as indicated in Pict. 40a & 40b. After this it is important to lubricate the head of the spiral (see Pict. 34/2).

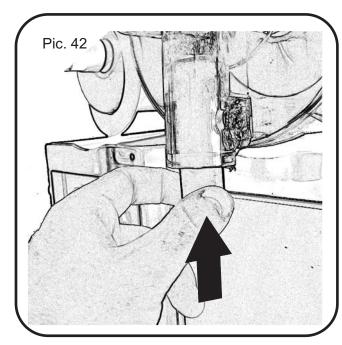




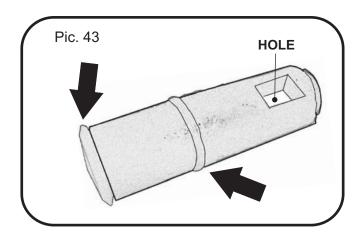
REASSEMBLY OF THE TAP

Before reassembling of the tap components lubricate the tap siege as indicated in Pict. 41 and lubricate the seals as indicated in Pict. 43..





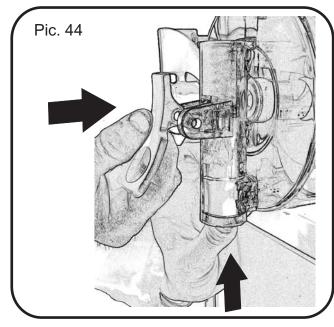
Insert the tap spring and tap pin as indicated in Pic. 41 and 42.

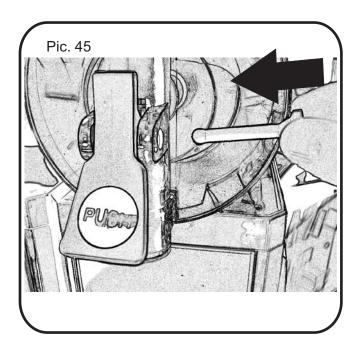


When inserting the main tap pin please be careful that the little square hole (see Pic. 43) is placed right in front of you.

Keep the tap pin pressed upwards until you are able to see the square hole where you will insert the handle (see Pict. 44).

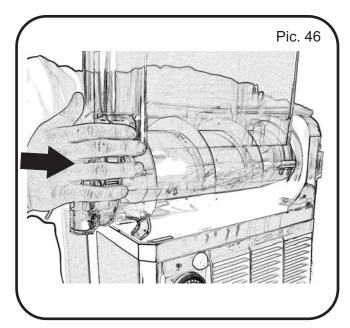
Insert the pin for handle fixing as indicated in Pict. 45.

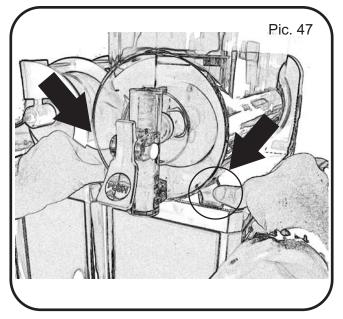




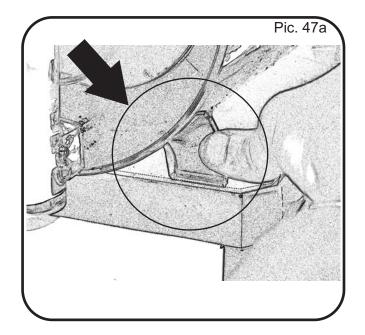
REASSEMBLY OF THE BOWL

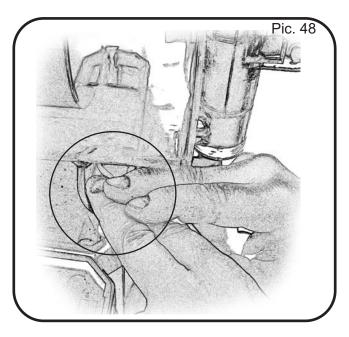
ATTENTION. Before reassemble of the bowl be sure that the bowl gasket is still in its position. If necessary fix again the bowl gasket without removing the spiral blade.





Insert the bowl making sure that the back hole of the bowl is fixed perfectly in the bowl gasket site. It is important that the bowl hole corresponds perfectly to the gasket shape. To obtain this easily lift slighly the back part of the bowl when insering it. Press the bowl deeply (see Pict. 46 and 47).





Once the bowl is inserted deeply press with the fingers on the legs and push downwards until you hear the clap (See Pict 47 and 47a).

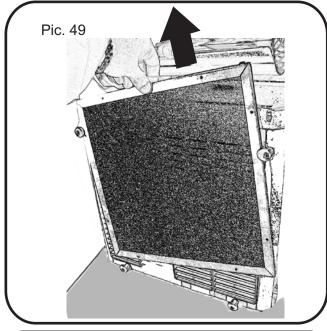
If this operation can seem difficult you may also press one leg first with both your hands and then the other (see Pic. 48).

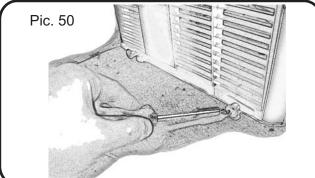
GENERAL MAINTENANCE

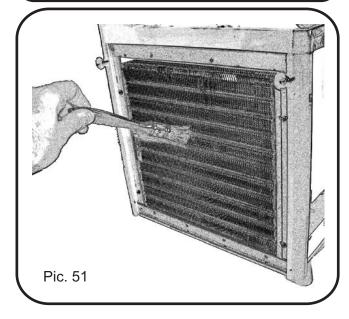
To obtain the best performance of the machine it is important to clean the external filter every day. Remove the filter and clean it as shown in Pict. 49.

Although the exinsting of the external filter do not forget to clean the condenser periodically (every month is the optimal time). Remove the screw as shown in Pict. 50 and clean condenser with an appropriate brush (see Pic. 51).

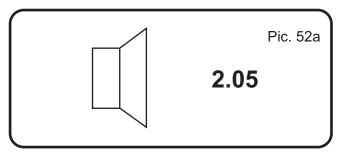
ATTENTION. A dirty condenser causes damages to the compressor.







Every month it is necessary to check the gaskets indicated in Picture 52a, 52b and 52c.

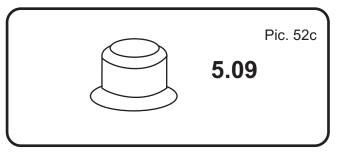


If the suction spiral's cap 2.05 is damaged, not assembled correctly or wore out you will see some syrup leaking on the drip tray panel under the bowl.



If the tap o-ring 5.08 is damaged you will see the syrup leaking from the higher part of the tap siege.

In this case replace the o-ring.

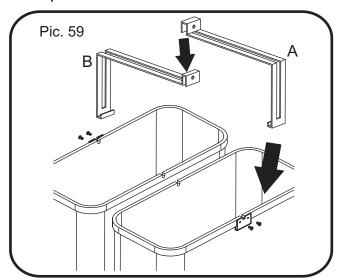


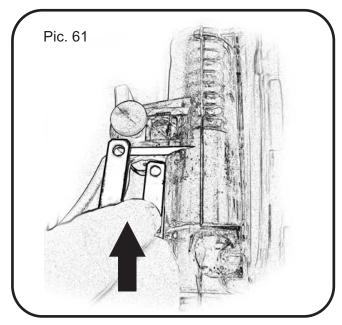
In case the leaking comes from the lower part of the tap siege please check the tap lower gasket 5.09 and replace it.

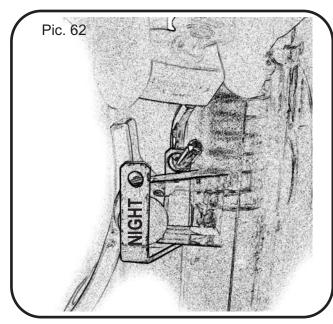
FIX CLAMPS and HANDLE

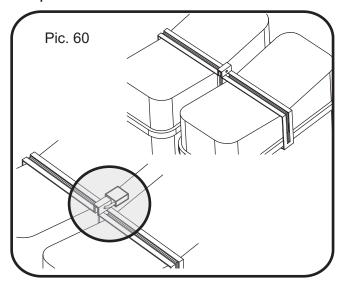
LOCKFORLID HOW TO FIX THE CLAMPS

Screw the small clumping plates on the outsides of the two bowls (see Pict. 56). Fix clamps as shown in Pict. 59 & 60. Close the clamp with the lock.









HANDLE LOCK

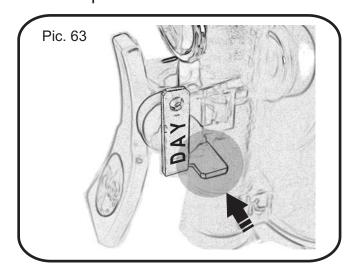
Insert the handle lock from the lower part of the tap (see Pict.61).

With the handle lock you have two options:

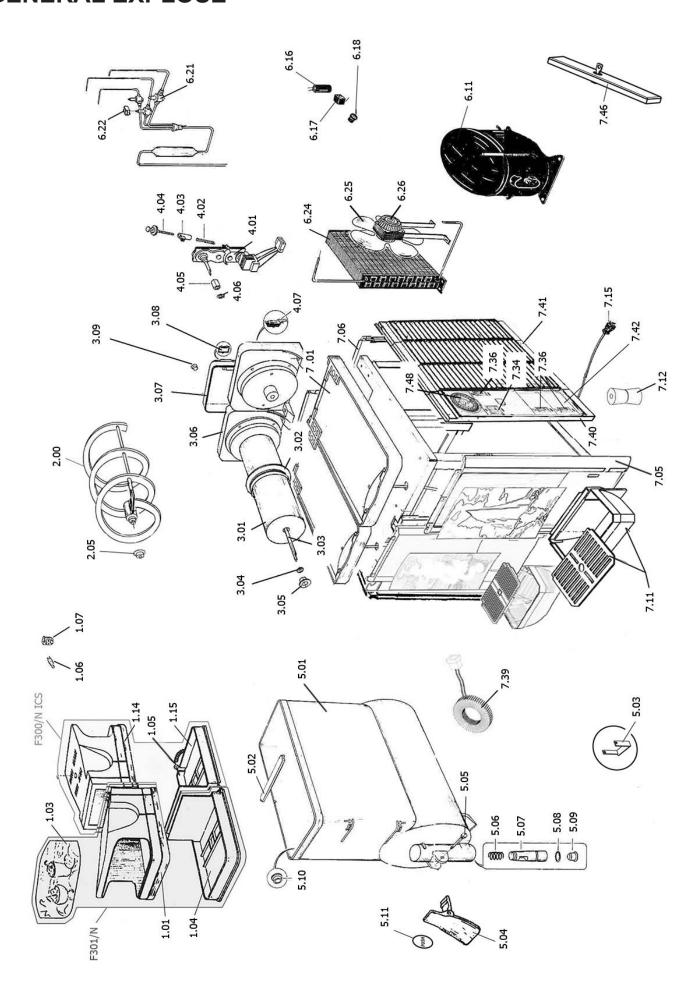
Complete block (for ex. During the night) Insert the handle lock as indicated in Pict. 62 and close the little lock; In this way it is not possible to open or remove any part of the tap; therefore the dispensing of the slush is not allowed.

Partial block (for During the day) Insert the handle lock as shown in Pict. 63. And close the little lock;

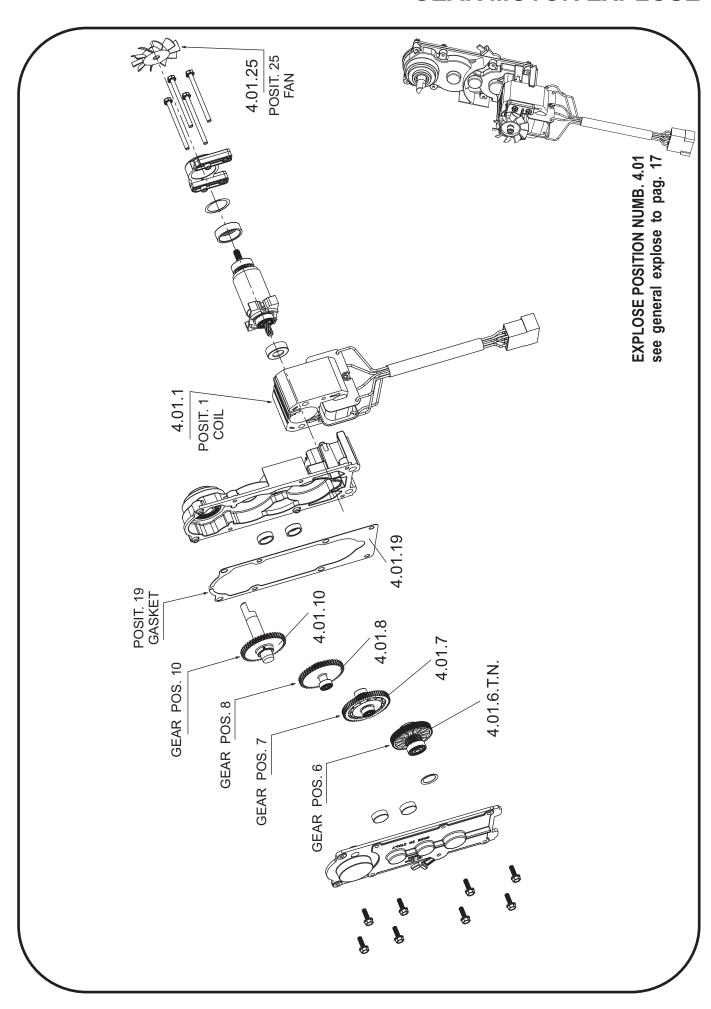
In this way the dispensing of the slush is allowed but, any removal of the tap parts will be impossible.



GENERAL EXPLOSE



GEAR MOTOR EXPLOSE

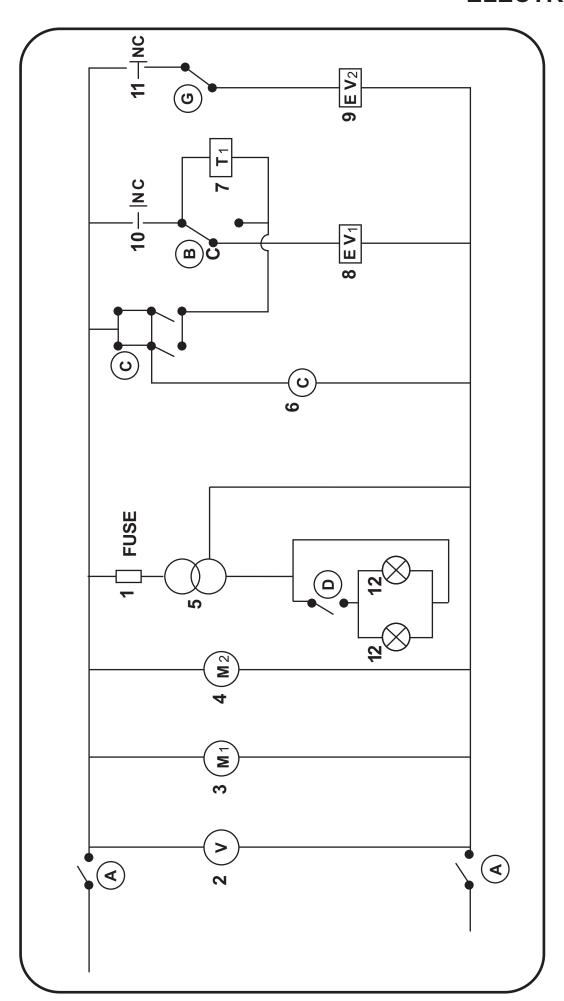


SPARE PARTS LIST

| Posit.No. | Code | Description |
|-----------|-------------|---|
| 1.01 | F001/N | FRONT UPPER LID BLACK |
| 1.03 | F004 | DISPLAY PHOTO |
| 1.04 | F005 | FRONT LID LOWER COVER |
| 1.05 | F008/5 | LID LIGHT CABLE |
| | F301/N | COMPLETE FRONT LID BLACK |
| 1.06 | 1236 | 12 V HALOGEN BULB |
| 1.07 | F089 | BULB SOCKET |
| 1.14 | F001/N | REAR UPPER LID BLACK |
| 1.15 | F095 | REAR LID LOWER COVER |
| | F300/N ICS | COMPLETE REAR LID BLACK |
| 2.00 | F304/N/1 | COMPLETE SPIRAL BLACK |
| 2.05 | F026/2 | SUCTION CAP GASKET NEW |
| | FEV4N | COMPLETE EVAPORATOR BLACK SUPPORT |
| 3.02 | F019/N | BOWL GASKET BLACK |
| 3.03 | F303 | D.12 TRANSMISSION SHAFT |
| | F303/1 | D.12 TRANSMISSION SHAFT MODIFIED |
| 3.04 | F022/1 | SEALING RING |
| 3.05 | F226 | D.19/12 EVAPORATOR BUSHING |
| 3.06 | F029GM | EVAPORATOR SUPPORT GREY |
| 3.07 | F030/N | COVER FOR EVAPORAT. SUPPORT BLACK |
| 3.08 | F031/N | MINI DOOR SLUSH REGULATION BLACK |
| 3.09 | F032/N | SCREW COVER BLACK |
| 4.01 | F033/1 | GEAR MOTOR KENTA |
| | F033/1.5 | KENTA GEAR# 5 |
| | F033/1.4 TN | KENTA GEAR# 6 NEW TYPE (from July 2009) |
| | F033/1.3 | KENTA GEAR # 2 |
| | F033/1.6 | KENTA GEAR # 4 |
| | F033/1.1 | KENTA#1 COIL |
| | F033/1.17 | KENTA#17 FAN |
| 4.02 | F036 | SPRING FOR SLUSH ADJUSTMENT |
| 4.03 | F035 | SPRING GUIDE |
| 4.04 | F034 | WHEEL FOR SLUSH ADJUSTMENT |
| 4.05 | F317 | BRASS BUSHING |
| 4.06 | F021 | CLAMPING RING STOP |
| 4.07 | 1061/UL | MICROSWITCH |
| 5.01 | F410 | BOWL + CROSS BAR |
| | F302/N | COMPLETE BOWL |
| | F 139 | LUBRICATION TUBE |
| 5.02 | F010 | CROSS BAR |

| Posit.No. | Code | Description | |
|-----------|----------|---|--|
| 5.04 | F012/N | HANDLE BLACK + PUSH STICKER | |
| 5.11 | F227 | PUSH STICKER | |
| 5.03 | F174 | TAP HANDLE LOCK | |
| 5.05 | F013 | PIN FOR HANDLE FIXING | |
| 5.06 | F014 | TAP SPRING | |
| 5.07 | F015 | TAP PIN | |
| 5.08 | F016 | TAP O-RING | |
| 5.09 | F017 | LOWER GASKET FOR TAP | |
| 5.10 | F315/3 | BOWL BUSHING | |
| 6.11 | F213/1 | COMPRESSOR FABY 2 115V/60HZ | |
| 6.16 | F083/5 | START CONDENSER x Compress. Faby2 115V/60HZ | |
| 6.17 | F081/5 | RELAIS x Compress. Faby 2 115V/60Hz | |
| 6.18 | F082/5 | CLIXON x Compre ss. Faby 2 115V/60Hz. | |
| 6.19 | 1184 | 20 GR FILTER | |
| 6.21 | F600 | ELECTROVALVE (MEC. PART) PARKER | |
| 6.22 | F602 | 115V/60HZ COIL FROM PARKER | |
| 6.24 | F 084/2 | CONDENSOR FABY 2 | |
| 6.25 | 1100 | FAN 228/34 ° | |
| 6.26 | F138 | FAN MOTOR 16W F2 115V | |
| 7.01 | F039N | CONDENSATION DRIP PANEL BLACK | |
| | 1087 | TUBE FOR CONDENSATION OUTLET | |
| 7.05 | M056N | FRONT PANEL BLACK | |
| 7.06 | F072/N | BACK PANEL BLACK | |
| 7.11 | GV1N | DRIP TRAY & GRATE BLACK | |
| 7.12 | 1023 NSF | SUPPORTING LEG | |
| | 1032 | CABLE CLAMP | |
| 7.15 | 2010/1 | AMERICAN FEEDER CABLE | |
| 7.19 | 1025 | THERMOSTAT | |
| 7.34 | F131 | MAIN POWER SWITCH | |
| 7.36 | F132 | UNIPOLAR SWITCH | |
| 7.39 | F 245 | 60 V A - 115V 12V TRANSFORMER | |
| 7.40 | F206/N | PLASTIC CONTROL PANEL BLACK | |
| 7.42 | FA2VO | STICKER CONTROL PANEL F2 S.P. | |
| 7.46 | F265 | COMPLETE COVER FOR CONTROL PANEL PLAST | |
| 7.41 | F207/N | VENT HOLE SIDE PANEL BLACK | |
| 7.48 | F228 | TIMER 115V | |
| | F184 | OPERATING INSTRUCTIONS | |
| | F2SC | ACCUMULATOR ASSY FABY 2 | |
| | F264 | PLASTIC SCREW FOR SIDE PANEL | |

ELECTRICAL TABLE



C) Main freeze/refrigeration 11) Micro-switch 2 12) Light freeze/refrigeration switch 6) Compressor 4) Gear motor 2 5) Transformer G) Individual bowl freeze/refrigeration switch 9) Electro-valve 2 10) Micro-switch 1 D) Light switch B) Individual bowl 3) Gear motor 1 8) Electro-valve 1 Thermostat 1 Por motor switch (Mod./2 and Mod./3) A) Main power switch (Mod./2 e Mod./3)

TROUBLESHOOTING FOR TECHNICIAN USE

MECHANICAL PART

| MACHINE NOT STARTING: | PLUG IS NOT IN THE MACHINE IS NOT ON FEEDER CABLE IS BROKEN RED LIGHT ON CONTROL PANEL IS ON FUSE 16A IS BURNT MAIN POWER SWITCH IS BROKEN | INSERT PLUG SWITCH MAIN POWER SWITCH ON REPLACE FEEDER CABLE SEE PAG. 14 REPLACE FUSE 16A REPLACE MAIN POWER SWITCH |
|--------------------------------------|---|---|
| COMPRESSOR NOT STARTING: | TIMER ON CONTROL PANEL IS NOT SET TIMER MOTOR IS BROKEN STARTER IS BROKEN COMPRESSOR RELE' IS BROKEN COMPRESSOR PROTECTOR IS BROKEN COMPRESSOR MOTOR (ELECTRICAL PARTS) IS BROKEN WIRING IMPROPER OR LOOSE LOW VOLTAGE TO UNIT LOW PRESSOSTAT IS BROKEN | SET TIMER, SEE PAG. 5 REPLACE TIMER MOTOR (explose pos. 7.18) REPLACE STARTER (pag. 15 - Pic. 55 - 6.16) REPLACE RELE' (pag. 15 - Pic. 55 - 6.17) REPLACE PROTECTOR (pag. 15-Pic. 55-6.18) CHECK COMPRESSOR, SEE PAG. 15 Pic. 56 CHECK WIRING AGAINST DIAGRAM Pag. 20 DETERMINE REASON AND CORRECT REPLACE THE PRESSOSTAT (pos. 7.42) |
| MACHINE NOT FREEZING: | COMPRESSOR NOT STARTING GAS LEAK INTO THE REFRIGERATION CIRCUIT FAN MOTOR IS BURNT INCORRECT VENTILATION LOW VOLTAGE TO UNIT CONDENSER IS CLOGGED | CHECK COMPRESSOR CONTACT YOUR DISTRIBUTOR REPLACE FAN MOTOR (Pos. 6.26) SEE PAG. 2 - Pic. 4 and 5 DETERMINE REASON AND CORRECT SEE PAG. 13 |
| ONE BOWL NOT FREEZING: | UNIPOLAR SWITCH IS BROKEN MICROSWITCH IS BROKEN ELECTROVALVE IS BROKEN COIL IS BURNT CONDENSER IS CLOGGED LACK OF AIR FLOW CAPILLAR TUBE IS CLOGGED GAS LEAK INTO THE REFRIGERATION CIRCUIT INTERNAL MECHANICAL TROUBLE IN COMPRESSOR NOT ENOUGH SUGAR ORTOO MUCH WATER | REPLACE SWITCH (explose pos. 7.36) REPLACE MICROSWITCH (explose pos. 4.07) CONTACT YOUR DISTRIBUTOR REPLACE (explose pos. 6.22) SEE PAG. 13 SEE PAG. 2, Pic. 4 and 5 CONTACT YOUR DISTRIBUTOR CONTACT YOUR DISTRIBUTOR REPLACE COMPRESSOR, Contact distributor EMPTY BOWL, REMIX PRODUCT (see pag. 4) |
| GEAR MOTOR COSTANTLY CLICKING: | NOT ENOUGH SUGAR ORTOO MUCH WATER SPIRAL NOT TURNING CORRECTLY | EMPTY BOWL, REMIX PRODUCT (see pag. 4) SEE PAG.10 Pic.38, 39 and 40 |
| NIGHT POSITION: | THE MACHINE KEEPS ON FREEZING | CHECK THE THERMOSTAT (Pos. 7.19) TIMER IS NO SET or BROKEN (Pos. 7.48) |
| | BULB IS BURNT/AGITATOR MOTOR IS BROKEN ELECTRICAL CORD TO LID IS BROKEN TRASFORMER IS BURNT FUSE 4A IS BURNT UNIPOLAR SWITCH IN BROKEN WIRING IMPROPER OR LOOSE | REPLACE BULB/AGITATOR MOTOR REPLACE CORD (Pos. 1.05) REPLACE TRASFORMER (Pos. 7.39) REPLACE FUSE (7.17) REPLACE SWITCH (explose pos. 7.36) CHECK WIRING AGAINST DIAGRAM Pag. 20 |
| GEAR MOTOR DOESN'T WORK: | UNIPOLAR SWITCH IN BROKEN GEARS ARE BROKEN GEAR MOTOR IS BURNT WIRING IMPROPER OR LOOSE GEAR MOTOR FAN IS NOISY or BLOCKED | REPLACE SWITCH (explose pos. 7.36) REPLACE GEARS (see pag. 18) REPLACE GEAR MOTOR CHECK WIRING AGAINST DIAGRAM Pag. 20 CHECK IF THE FAN CIRCULATES FREELY |
| LEAKS ON THE DRIP TRAY PANEL: | THE BOWL GASKET INCORRECTLY ASSEMBLED SPIRAL GASKET IS WORN BOWLS INCORRECTLY ASSEMBLED | SEE PAG. 10 REPLACE THE GASKET (See Pag. 10) CHECK LEGS (see pag. 12 - Pic. 47, 47a & 48) |
| LEAKS ON THE TAP: | THE GASKETS ARE WORN | SEE PAG. 11 AND PAG. 13 |
| THE TAP OPENING IS TOO HARD: | LACK OF LUBRICATION | EMPTY BOWL, REASSEMBLY TAP (Pag11) |
| THE MACHINE STOPS SUDDENLY: | THE FILTER IS OBSTRUCTED INCORRECT VENTILATION FAN MOTOR BURNT | SEE PAG. 13 and PAG.14 SEE PAG. 2 - Pic. 4 and 5 REPLACE FAN MOTOR (pos. 6.26) |

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NOTE:

