

**SECOND HALF
MAINTENANCE,
SERVICE ANALYSIS &
REPLACEMENT OF AUGER,
WATER SEAL AND BEARINGS
INSTRUCTIONS**

MAINTENANCE

On the new MF Flaker Series a built in remind cleaning – countdown timer is available



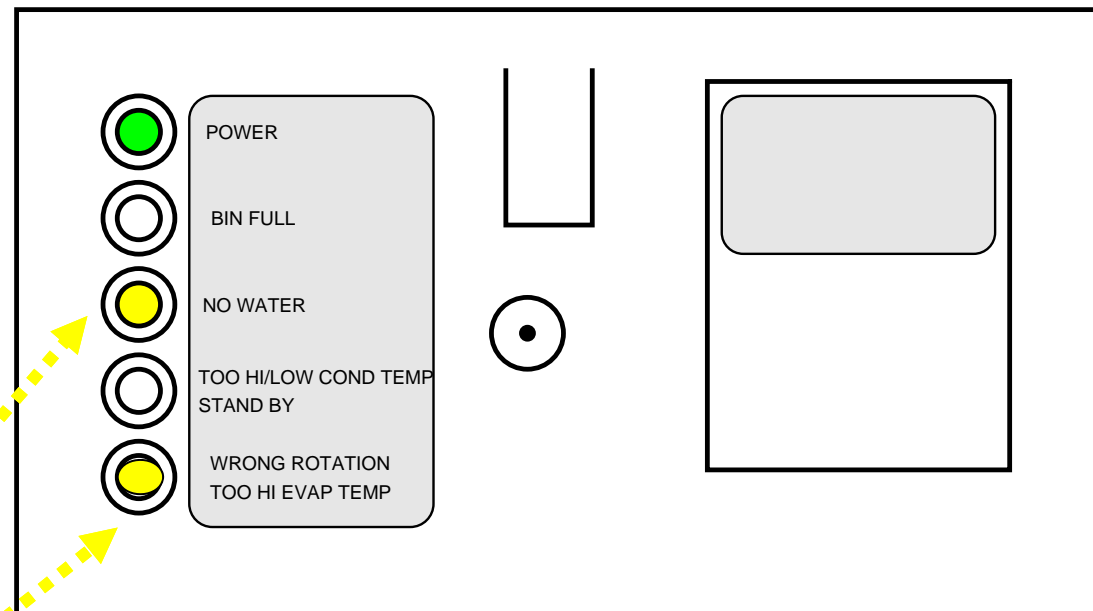
MAINTENANCE

Whenever countdown timer for remind cleaning is elapsed (6/12 months according to pcb Jumper) ice maker keep on working and on the PC Board the following LEDs will blink together

NO WATER – YELLOW LED

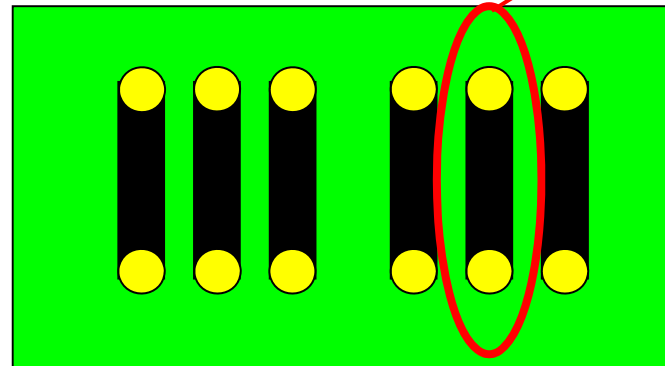
+

**WRONG ROT./ TOO HIGH EVAP.
TEMP. YELLOW LED**



MAINTENANCE

Cleaning schedule - setting can be chosen through circled jumper



WATER SYSTEM
CLEANING REMIND
JUMP IN = 6 MONTHS
JUMP OUT = 12 MONTHS



NEW MF..6 SERIES

MAINTENANCE

The most important program on the maintenance of the Flaker machines is the cleaning/sanitizing to be done on regular base as detailed here below:

- **Sanitizing: Every month**
- **Cleaning: Every six months**

On next slides will be shown the procedure for sanitizing and cleaning.

MAINTENANCE

TOOLS REQUIRED

- Medium Phillips Screwdriver
- Medium Flat Screwdriver
- Pair of safety gloves
- Bucket
- Different types of brush
- Approved Cleaner/Sanitizer



MAINTENANCE

Remove front



....top..



....and right panel



NEW MF.6 SERIES

MAINTENANCE

Switch OFF the machine at
main power switch....

.....and close the water tap
on water inlet line.



MAINTENANCE

Scoop out all ice
stored into the bin
so to prevent its
contamination.



MAINTENANCE

Remove the metal clamp
and disconnect the
water tube from the
evaporator inlet of the
water reservoir



MAINTENANCE

...the water into a
bucket



MAINTENANCE

....place
again the
tube on the
evaporator
inlet port.



MAINTENANCE

Prepare the cleaning solution by diluting in a plastic bucket lukewarm water (max 40°C) with **SCOTSMAN Ice Machine Cleaner** as per the following quantities:





Scotsman[®]
Ice Systems

NEW MF..6 SERIES

MAINTENANCE

MF 26: 1,5 LITER WATER WITH 150 CC CLEANER

MF 36: 2 LITERS WATER WITH 200 CC CLEANER

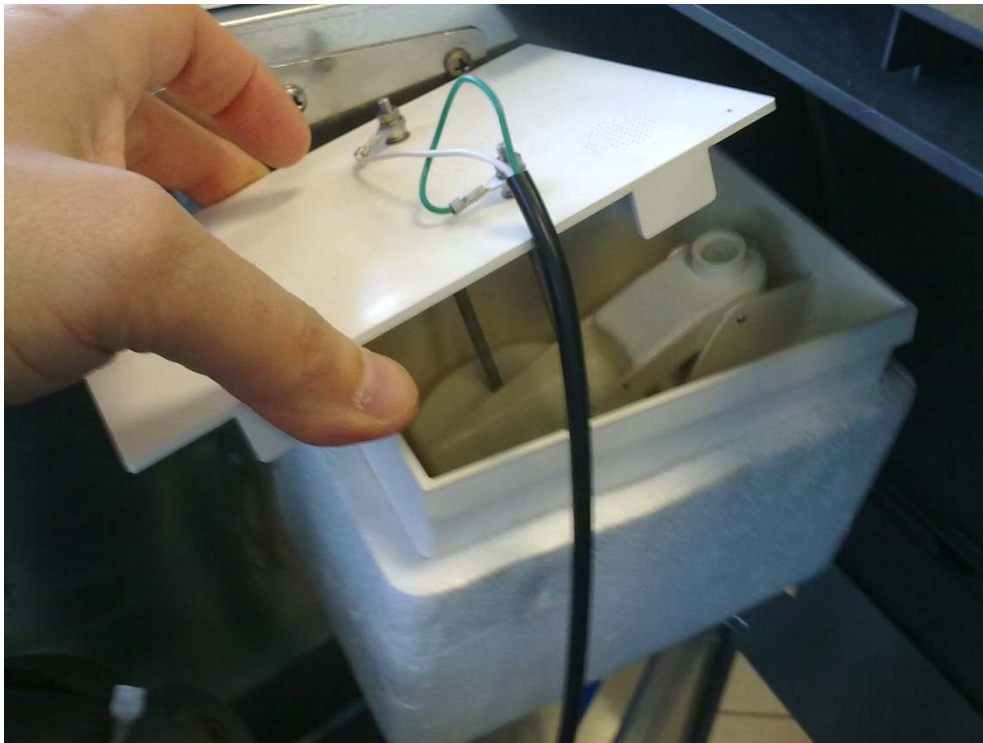
MF 46/56: 4 LITERS WATER WITH 400 CC CLEANER

**MF 66: 4 LITERS WATER WITH 400 CC CLEANER PER
EVAPORATOR**

MAINTENANCE

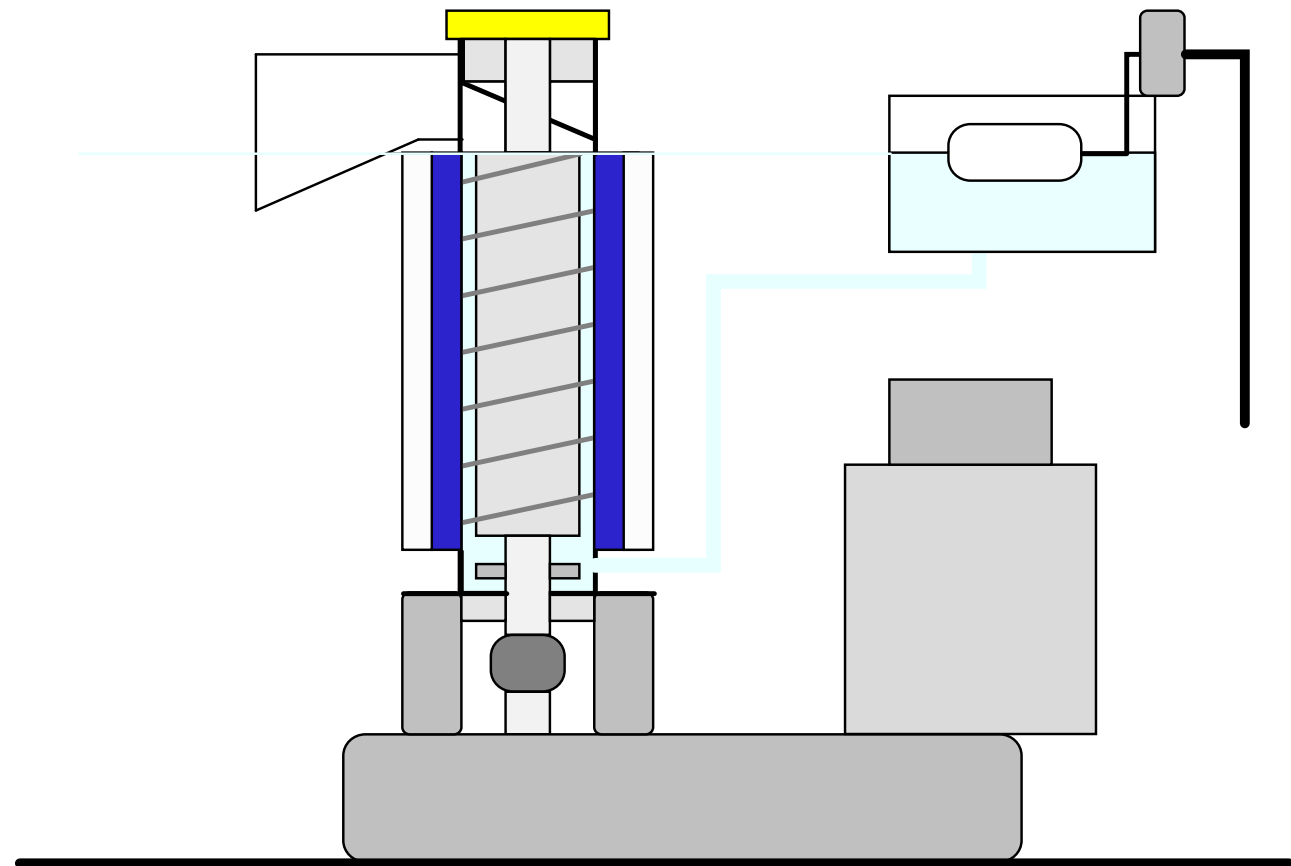
Remove the water reservoir cover then....

....slowly pour onto the water reservoir the cleaning solution.



MAINTENANCE

Leave the machine in **OFF mode** for approximately 20 minutes so to have the cleaning solution melting the scale into the entire water system.



MAINTENANCE

With the help of a brush dissolve the most resistant and remote scale deposits into the plastic tube connecting the water reservoir to the bottom of the freezer.



MAINTENANCE

Jump with a wire
or connect
together the two
metal pins of the
water level sensor
then....



MAINTENANCE

... move
the
master
switch to
ON
position.



ON



NEW MF.6 SERIES

MAINTENANCE

Few minutes
later the
machine start
up to produce
and discharge
ice (slash) into
the storage bin.



MAINTENANCE

As soon as the level of the water into the water reservoir is going down, slowly pour the remaining cleaning solution till empty the bucket



MAINTENANCE

Once empty the bucket open the water tap so to allow new fresh water into the water reservoir and leave the machine running for approximately 10 minutes.



MAINTENANCE

When sure that no more trace of cleaning solution is left into the water system pour 1 cc of Scotsman sanitizer directly into the water reservoir then....



MAINTENANCE

....place again the
water reservoir
cover paying
attention to remove
the jumper between
the two metal pins.





NEW MF.6 SERIES

MAINTENANCE

Scoop out the flake ice produced with cleaning/sanitizing solution.



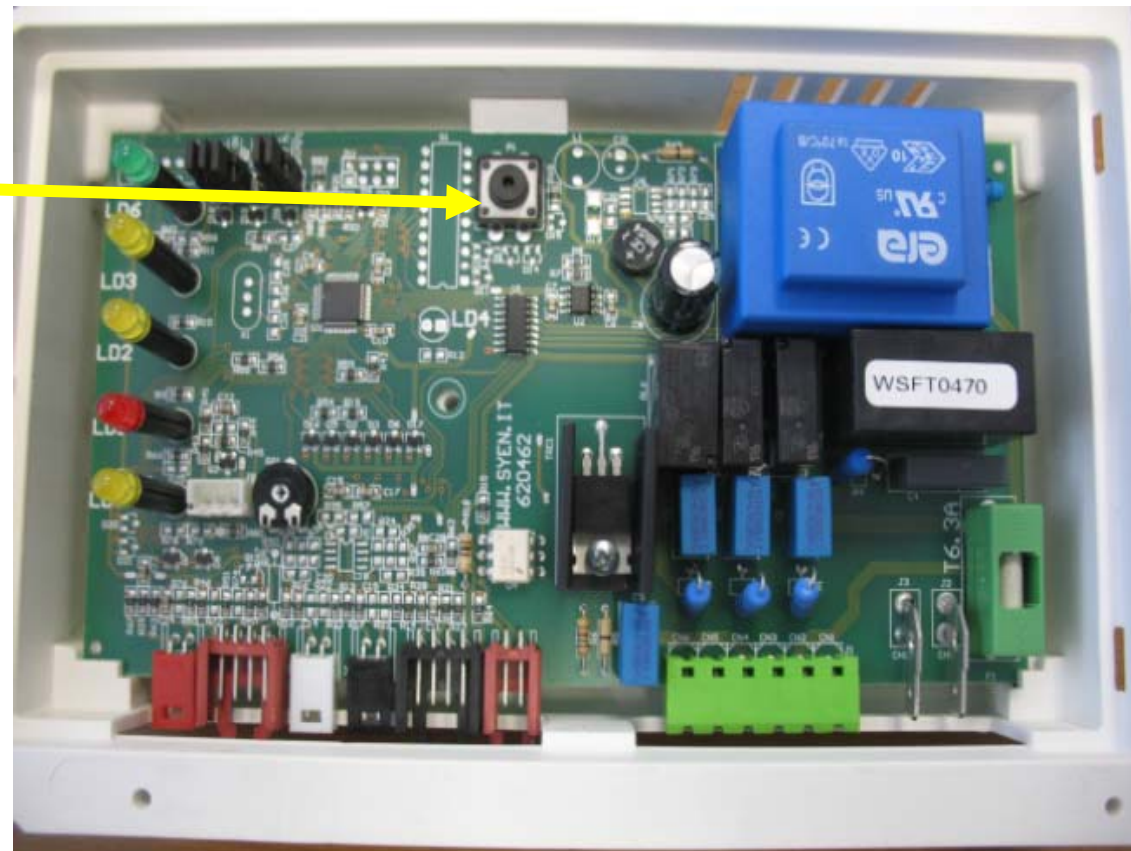
MAINTENANCE

Wash the inside of the storage bin with sanitizing solution (1 cc sanitizer per liter of water) so to be sure no more trace of de-scaling/cleaning solution remains into the sump.



MAINTENANCE

Whenever cleaning is completed push and keep on pushed reset button for > 20" thus to reset-restart countdown timer





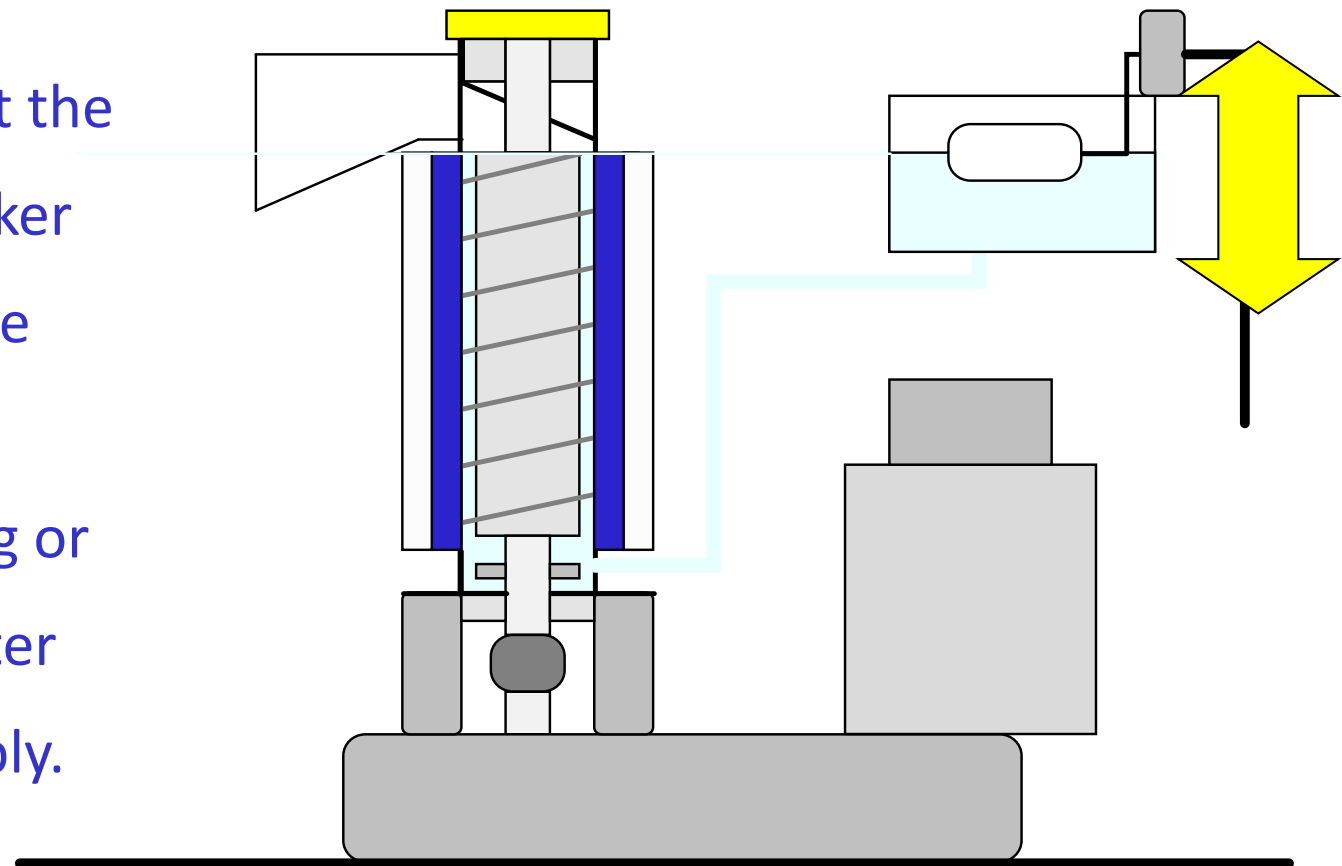
NEW MF..6 SERIES

MAINTENANCE

REMEMBER. To prevent the accumulation of undesirable bacteria it is necessary to sanitize the interior of the storage bin with a sanitizing solution every week.

MAINTENANCE

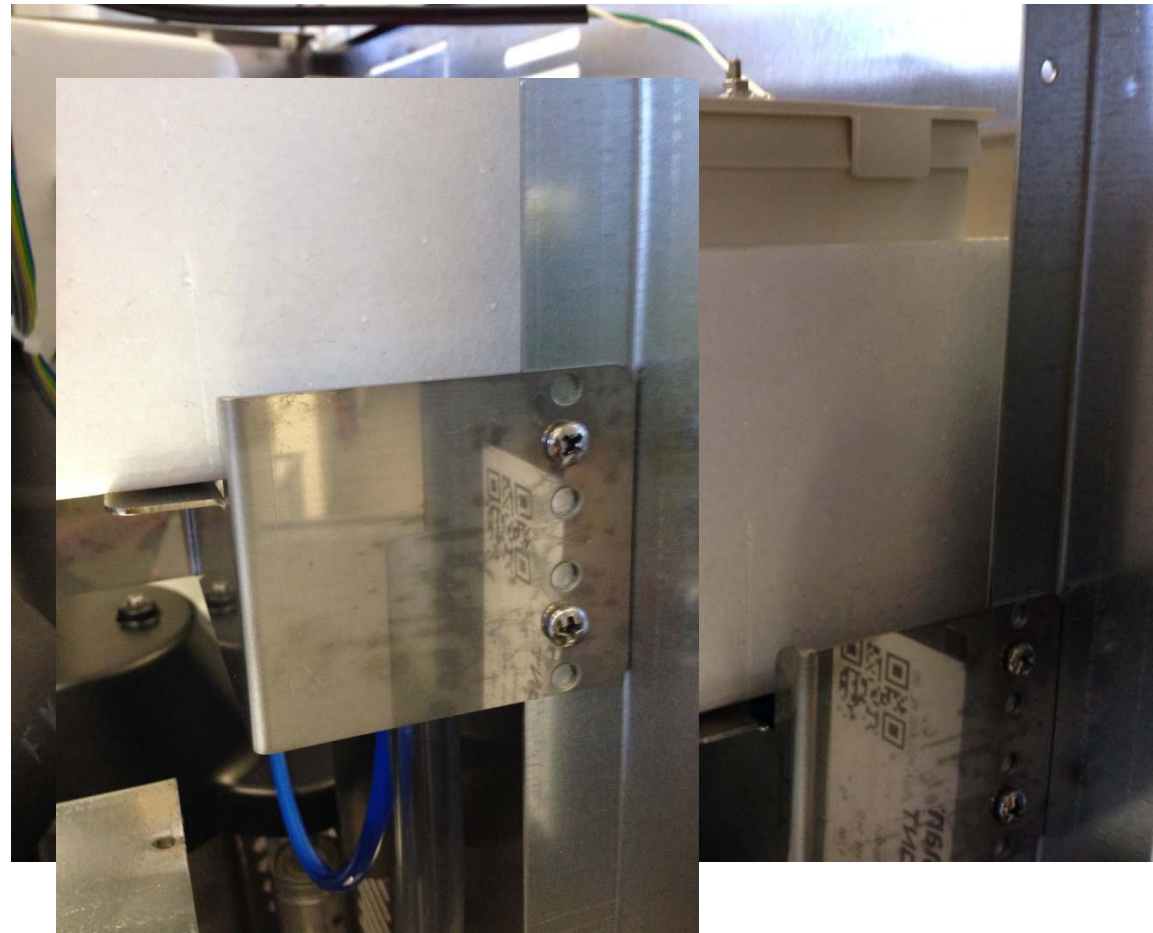
It is possible to change a little bit the quality of the flaker or super flaker ice produced by the machine by rising or lowering the water reservoir assembly.



MAINTENANCE

The unit frame is equipped by five series of holes so to secure at different level the water reservoir.

Higher level is for wetter ice while lower level for drier ice.





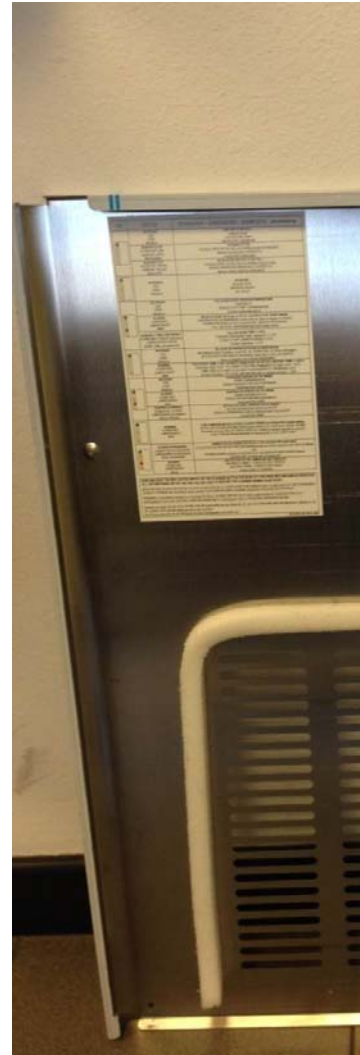
NEW MF.6 SERIES

SERVICE ANALYSIS

SERVICE ANALYSIS

From now also the Flaker machines are supplied with a label showing the different meanings of the Leds of the PC Board so to help the Service Technician in the right diagnosis of the possible malfunction of the machine.

The label is stick on the back side of the front panel



LED	STATUS	REASON WHY - SIGNIFICATION - SIGNIFICATO - Beschreibung
●	ON STEADY	UNIT OFF AT BIN FULL
	FLICK	CABINE PLANE CONTROFFORE PIENO
	BLINKING	Machina ALICE (Speaker on/off)
●	BLINKING SLOW	ON BEAM CUTTED
	CLONCHANT LENT	FASCEAU AFRICA ROUGE CELLULE NIVEAU GLACE INTERROMPU
	LAMPEDG LENTO	RAGGIO INFRAROSSO INTERRUPTO
●	BLINKING FAST	ON ON AFTER TRIP OFF AT BIN FULL
	CLONCHANT RAPIDE	FASCEAU AFRICA ROUGE CELLULE NIVEAU GLACE STABU
	LAMPEDG VELOCE	RAGGIO INFRAROSSO INTERRUPTO
●	ON STEADY	NO WATER
	FLICK	MANQUE D'EAU
	BLINKING	MANCANZA ACQUA
●	ON STEADY	TOO HI DISCHARGE PRESSURE/TEMPERATURE
	FLICK	COUPURE HP
	BLINKING	FERRATA ALTA TEMP CONDENSAZIONE
●	BLINKING	DELAY AT START UP (2 min. or 60 min. according to the jammer setting)
	CLONCHANT	TEMPORISATION AU DEMARRAGE (2 min. ou 60 min. selon le réglage du déclencheur)
	LAMPEDG	ATRASO PARTIDA (2 u. 60 min. segun el regulador de arranque)
●	BLINKING 3 TIMES AND REPEAT	TOO LOW ROOM TEMP (4 +1°C)
	CLONCHANT 3 FOIS ET REPEUT	COUPURE TRES BASSE TEMP. AMBIANTE (4 +1°C)
	LAMPEDG 3 FOIS ET REPEUT	FERRATA TEMP. AMBIENTE BASSA (4 +1°C)
●	ON STEADY	NO SLOW ON WORKING REJECTION OF DRIVE MOTOR
	FLICK	RETRORRESCITA TORNA AL SENSO DI TORNA PIU' O TORNA LENTAMENTE
	BLINKING	NO SLOW ON WORKING REJECTION OF DRIVE MOTOR
●	BLINKING	TOO HI SWAP TEMP (4 +1°C) AFTER 15 MIN AFTER TRIP OFF OR TOO LOW SWAP TEMP (4 -1°C)
	CLONCHANT	COUPURE TEMP SWAP +1°C APRES 15 DE FONCTIONNEMENT OU TEMP SWAP -1°C
	LAMPEDG	TEMP SWAP +1°C DES 15 DE FONCTIONNEMENT O INFERENCE A -1°C
●	ON STEADY	CONDENSER SENSOR OUT OF ORDER
	FLICK	SONDA CONDENSATORE Malfunzionante
	BLINKING	CONDENSATORE Malfunzionante
●	ON STEADY	EVAPORATOR SENSOR OUT OF ORDER
	FLICK	SONDA EVAPORATORE Malfunzionante
	BLINKING	EVAPORATORE Malfunzionante
●	ON STEADY	SPECIAL ICE LEVEL CONTROL OUT OF ORDER
	FLICK	CELLULA INFRAROSSO NIVELLO GLAZE Malfunzionante
	BLINKING	CELLULA INFRAROSSO NIVELLO GLAZE Malfunzionante
●	ON STEADY	4 OR 12 MONTHS WATER SYSTEM CLEANING REMIND (according to the jammer setting)
	FLICK	AVVERTENZA SOSTITUIRE IL FILTRO PERMANENTE (secondo il regolatore di avviamento)
	BLINKING	AVVERTENZA SOSTITUIRE IL FILTRO PERMANENTE (secondo il regolatore di avviamento)
●	ON STEADY	PURGE CYCLE IN OPERATION (when machine is in operation)
	FLICK	CICLO DI PURGHE IN OPERAZIONE (quando la macchina è in funzione)
	BLINKING	CICLO DI PURGHE IN OPERAZIONE (quando la macchina è in funzione)

SERVICE ANALYSIS

**ICE LEVEL CONTROL OUT
OF ORDER**

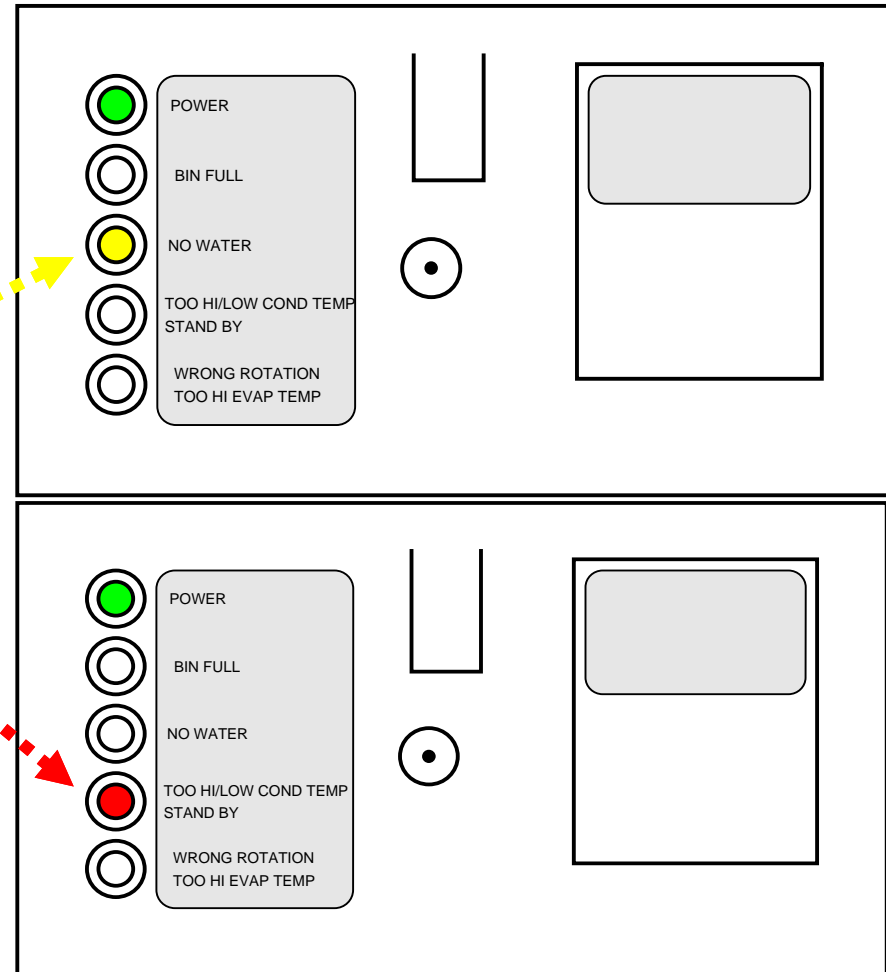
No Water YELLOW LED

+

Stand-by Red LED

BLINKING ALTERNATE

**REPLACE ICE LEVEL
CONTROL**



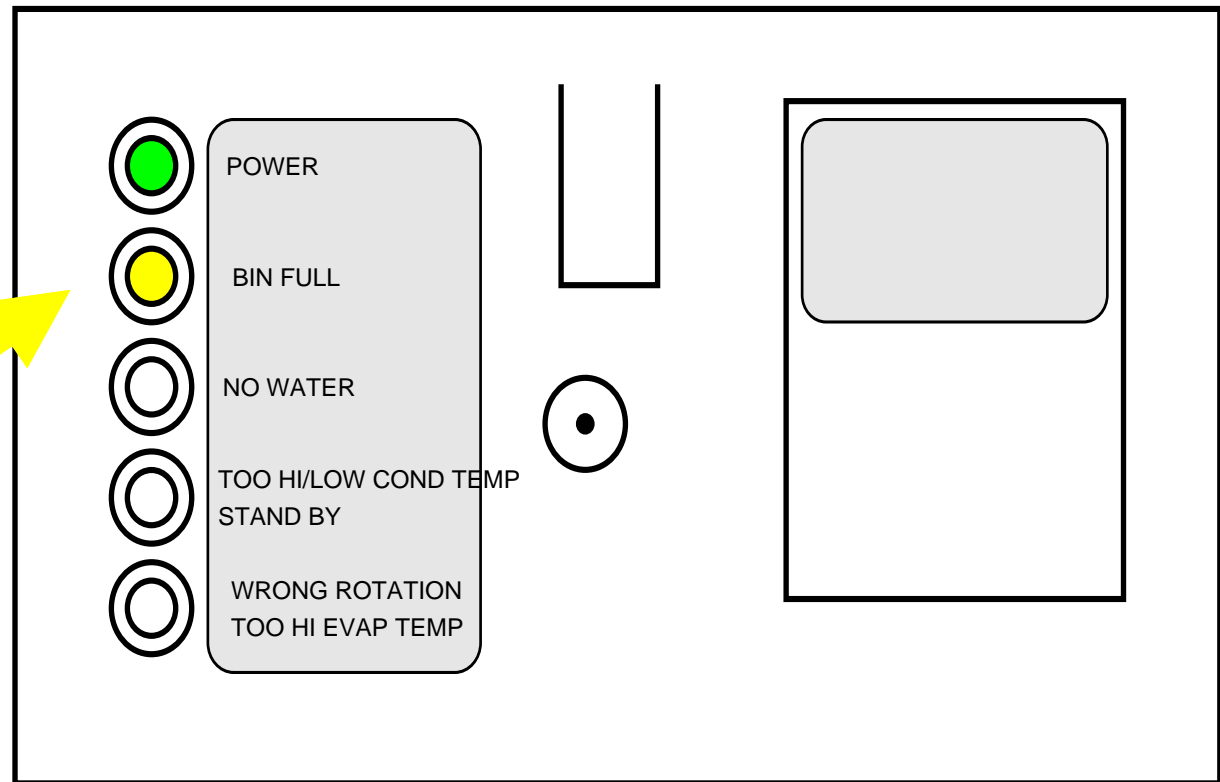
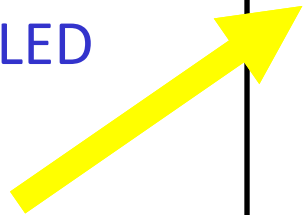
SERVICE ANALYSIS

BIN FULL CONDITION:

Bin Full Yellow LED

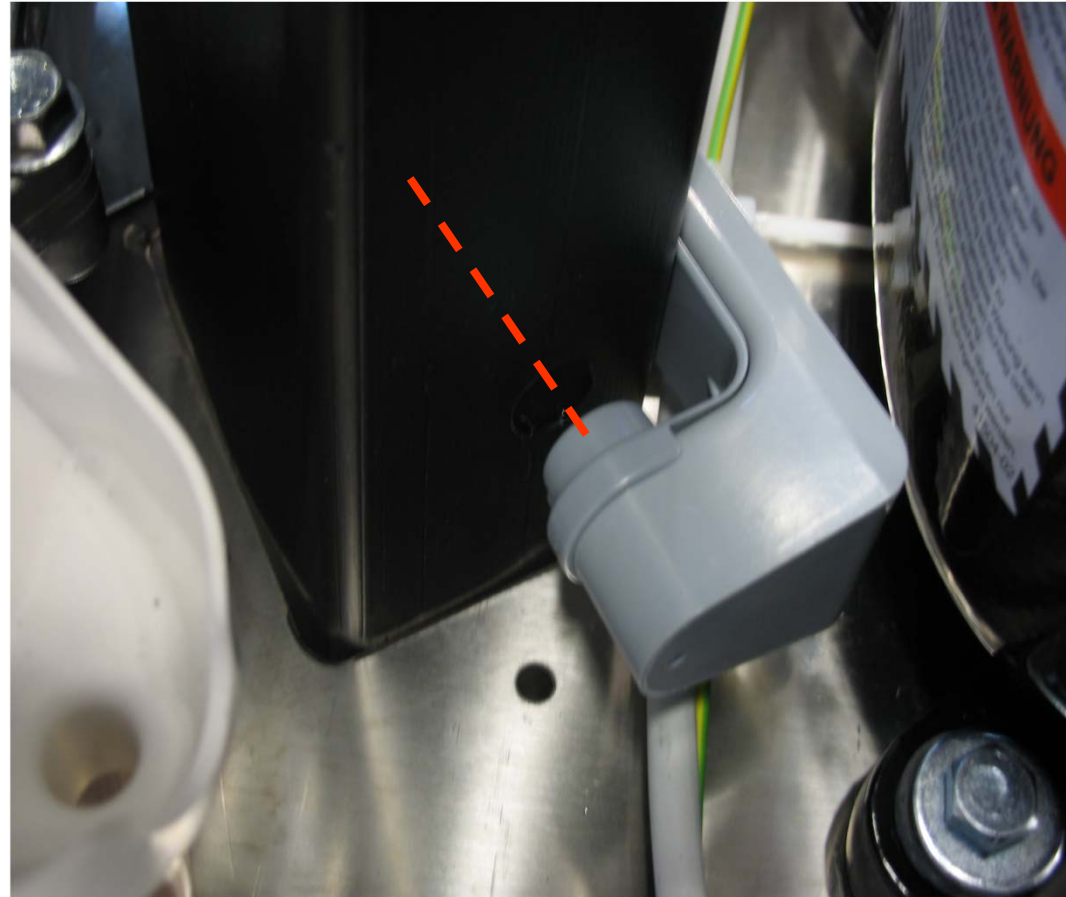
ON STEADY

And NO ICE in the Bin



SERVICE ANALYSIS

Check for the correct operation of the Optical Ice Level control located on the lower outside part of the ice chute.



SERVICE ANALYSIS

The two eyes placed on the opposite side of the plastic bracket must be perfectly clean with no dust and/or scale as well as the two holes located on the opposite sides of the ice chute.





NEW MF..6 SERIES

SERVICE ANALYSIS

ATTENTION. The Optical Ice Level Control can be **affected by the sun light.**

Avoid to leave the machine in operation directly under the sun light and/or without the service panels.



NEW MF..6 SERIES

I/R CALIBRATION PROCEDURE INSTRUCTIONS

In case of any diagnostic ALARM due to ice level control out of order; before replacing the same and/or the PC Board try to calibrate the same as per following procedure

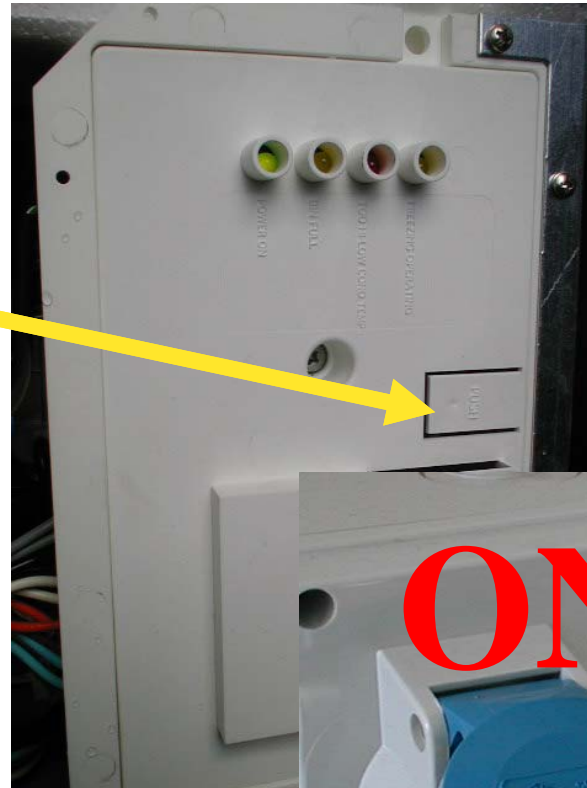
I/R CALIBRATION PROCEDURE INSTRUCTIONS

- Be sure that Transmitter & Receiver eyes of the Ice Level Ctrl are both cleaned up from any deposit of scales
- Switch OFF the machine by the Main Switch.



I/R CALIBRATION PROCEDURE INSTRUCTIONS

- Push and keep on pushing reset button
- In the meanwhile Switch ON the machine by the Main Switch.



I/R CALIBRATION PROCEDURE INSTRUCTIONS

After 10 seconds

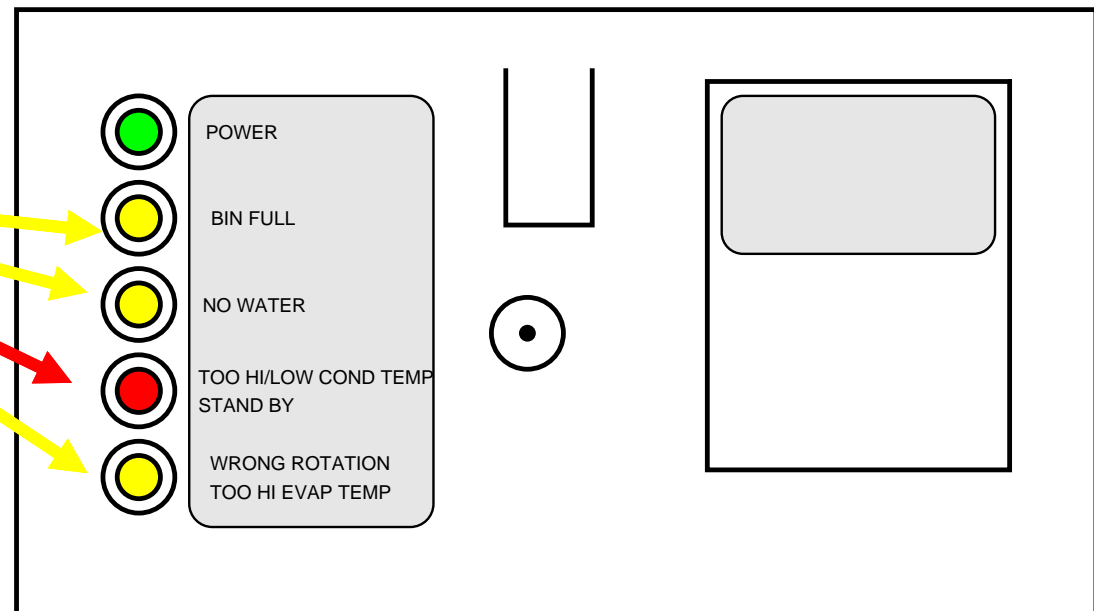
all LEDs flash once

meaning I/R

calibration is done

Afterward release

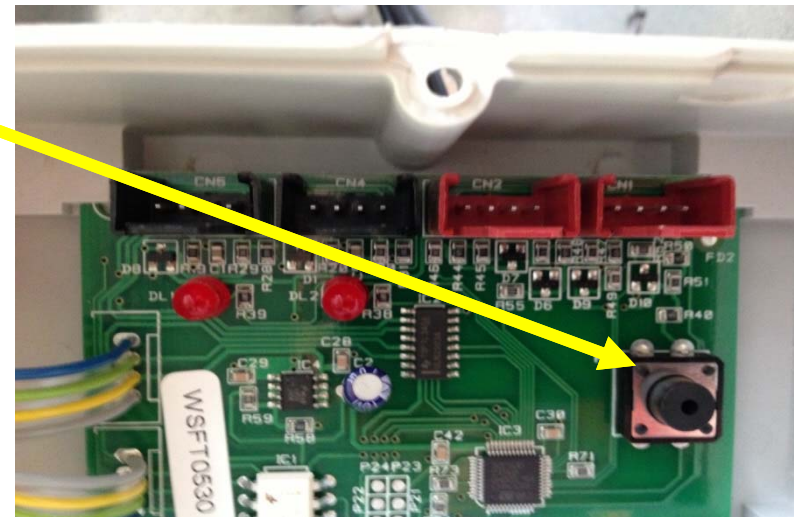
push button



I/R CALIBRATION PROCEDURE INSTRUCTIONS

Questa operazione può essere effettuata ogniqualvolta se ne presenti la necessità mentre DEVE essere sempre effettuata nel momento in cui si installa o si sostituisce una nuova scheda Elettronica o un nuovo Lettore Ottico di Livello Ghiaccio.

On MF 66 run this procedure through the bush button located on the Interface PC Board.

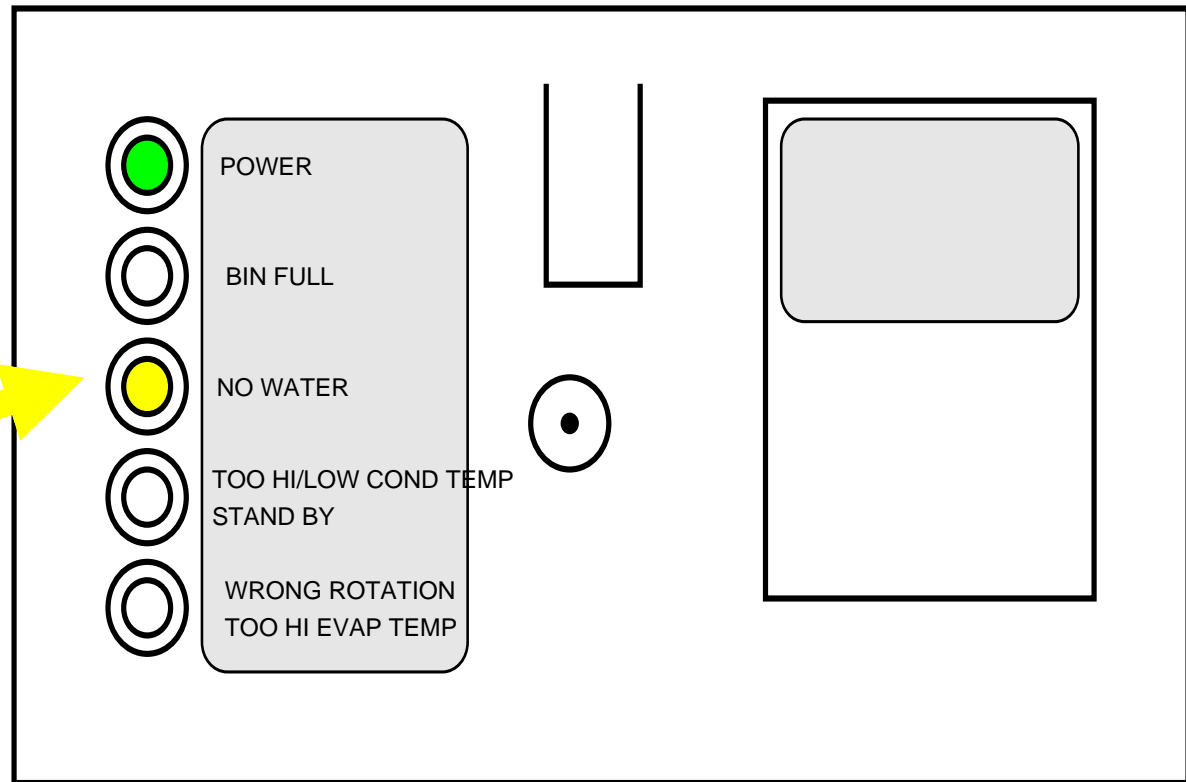
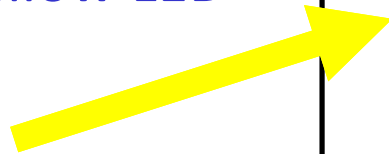


SERVICE ANALYSIS

NO WATER ALARM:

No Water Yellow LED

ON STEADY



SERVICE ANALYSIS

Check first for the
water tap on the
water supply line

.....



CLOSED

SERVICE ANALYSIS

.....for the water filter

located on the water inlet

line.....



SERVICE ANALYSIS

.....for the water strainer

located inside the water

inlet fitting.....



SERVICE ANALYSIS

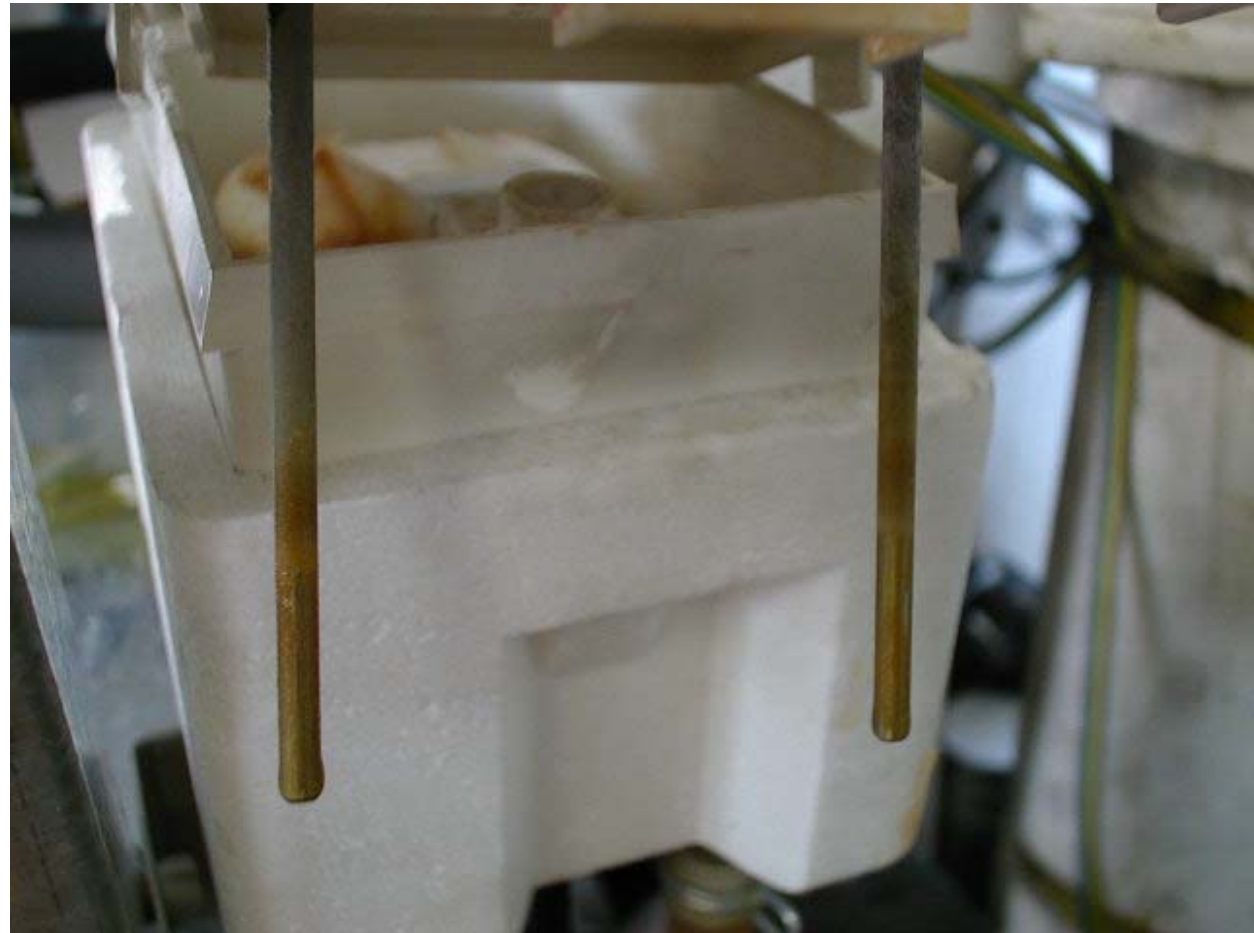
.....for the correct
cleaning of the
orifice of the water
reservoir.

If not clean it with a
small metal pin.



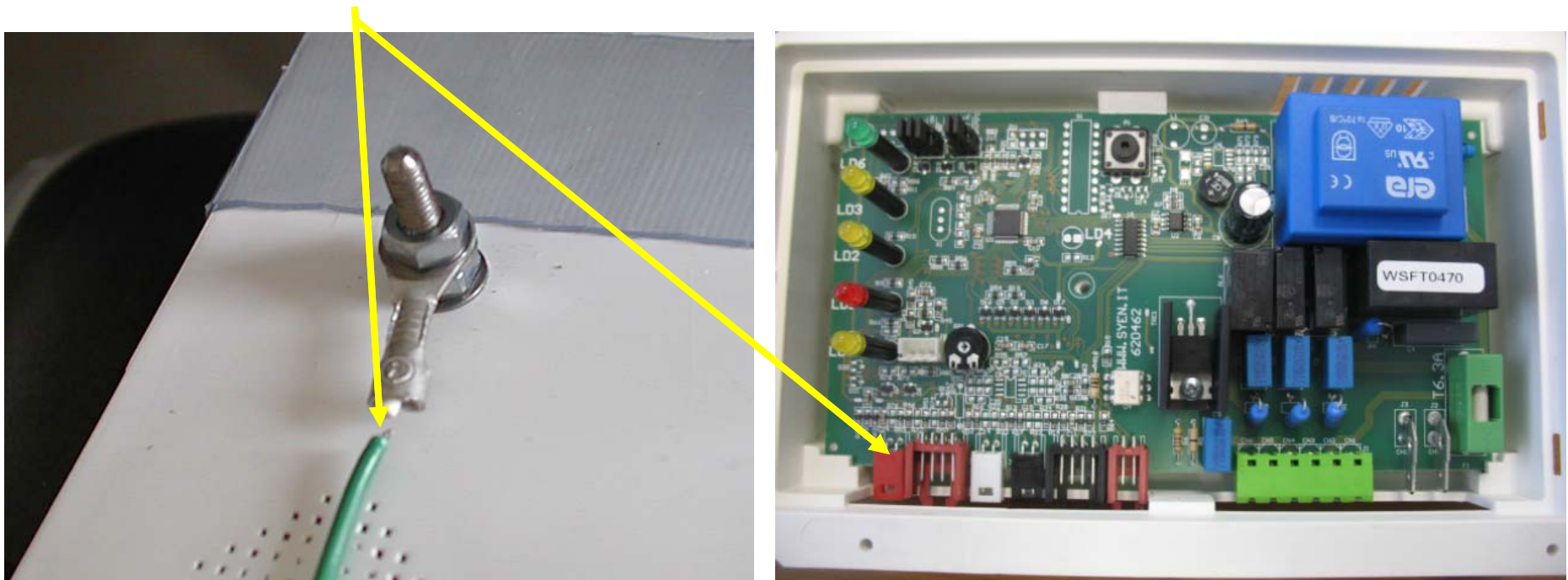
SERVICE ANALYSIS

In case of water
into the water
reservoir check
for any scale
deposit onto the
two metal pins of
the water level
sensor.....



SERVICE ANALYSIS

.....or for any loosing wire between the two metal pins and the PC Board connector (red color two pins connector).





NEW MF..6 SERIES

SERVICE ANALYSIS

ATTENTION. The water level sensor operate by transmitting a low voltage current through the water. If water is very soft, with a very low content of mineral salts, no current is transmitting back to the PC Board tripping OFF the machine at NO WATER LED.

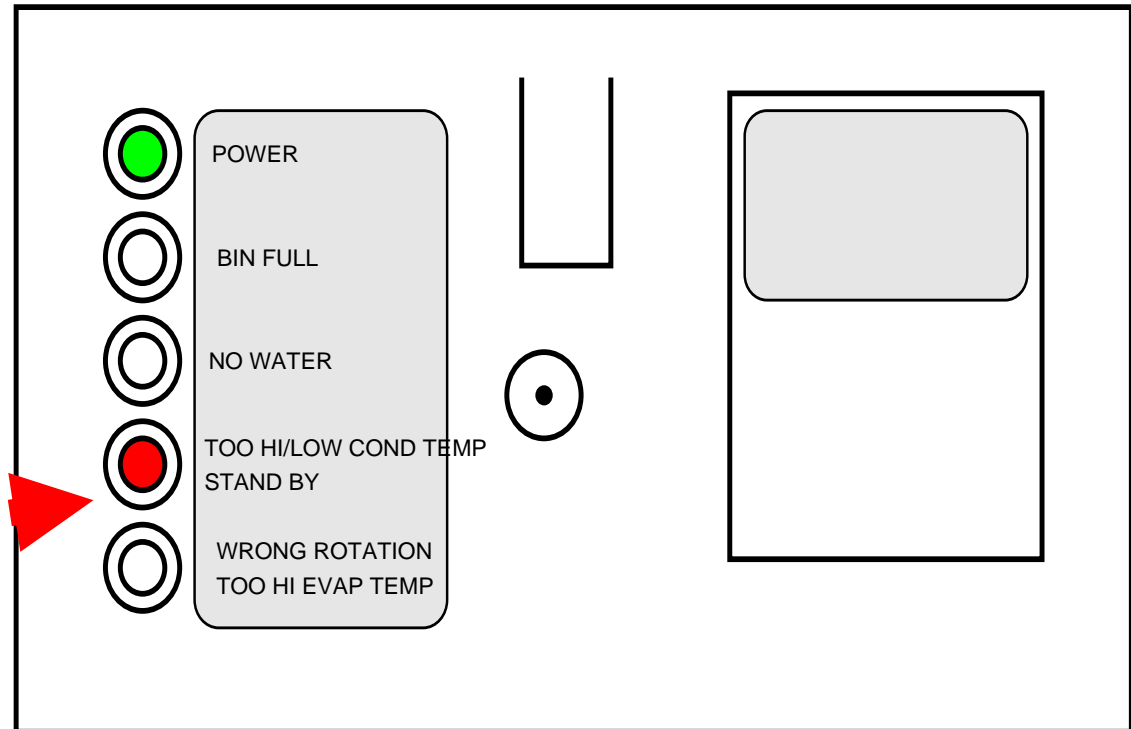
A minimum of 30 μ S electrical conductivity water is required for correct operation of the machine.

SERVICE ANALYSIS

START UP DELAY TIME
3' or 60' (ONLY on MF 66)

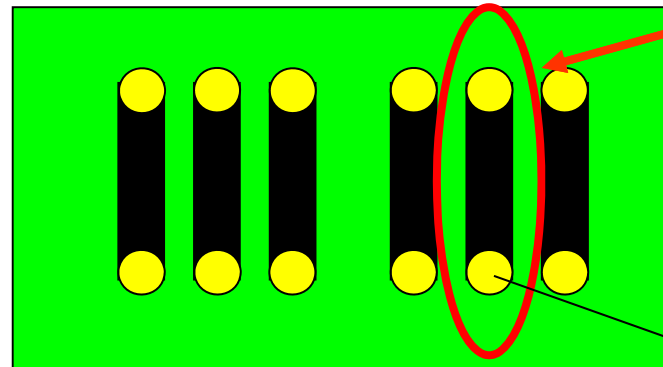
Too Hi/Low Cond. Temp-
Stand-by RED LED

BLINKING



SERVICE ANALYSIS

It is a normal situation at every re-start of the machine after the tripping of for bin full, no water, etc) It is also possible to by-pass the delay just making a short-circuit for a while on contacts of jumper **J4** (TEST)



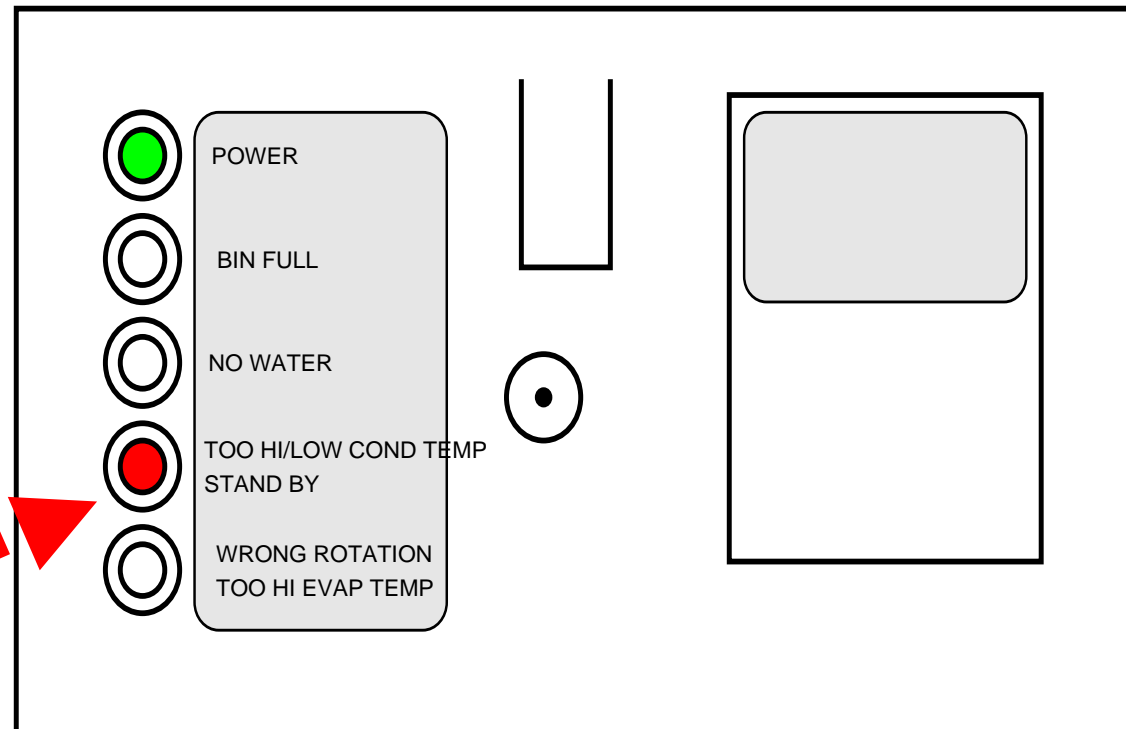
TEST FACTORY USE ONLY

SERVICE ANALYSIS

**TOO LOW AMBIENT
TEMPERATURE (<+3°C)**

Too Hi/Low Cond. Temp-
Stand-by RED LED

**BLINKS THREE TIMES
AND REPEAT**



SERVICE ANALYSIS

It is a typical **winter situation**.

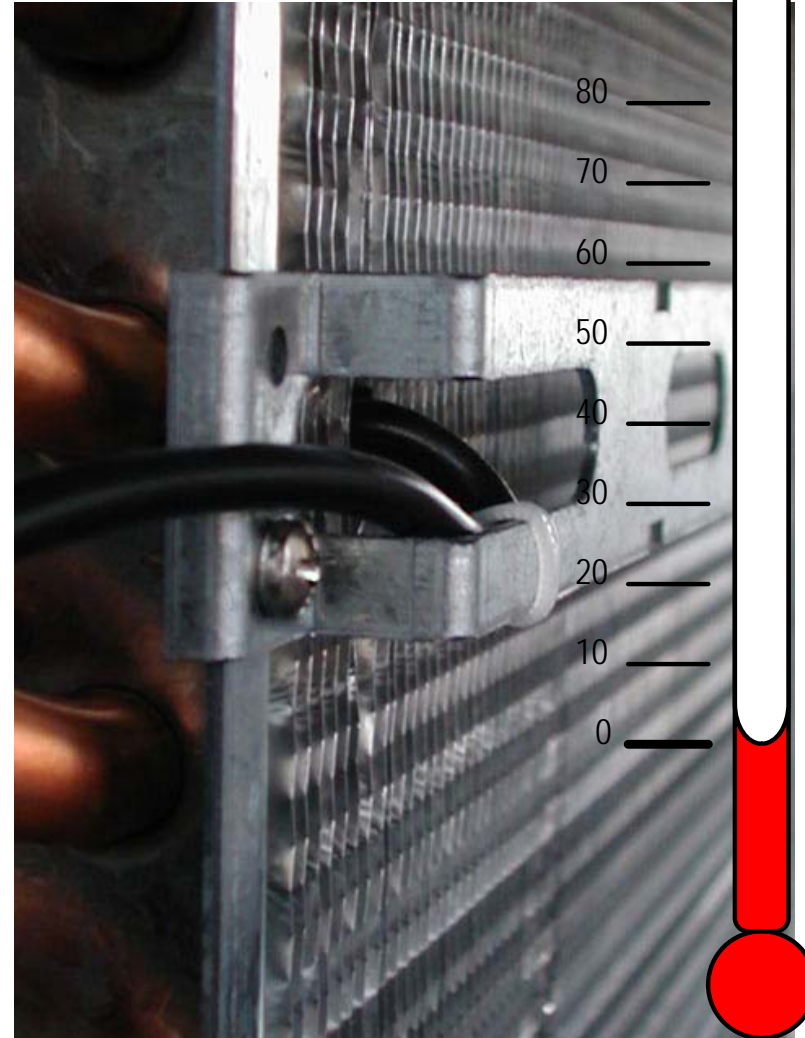
When the machine is located in a

very cold room (<+3°C) the

condenser sensor keep the

machine OFF till the temperature

rise up to more then +5°C.



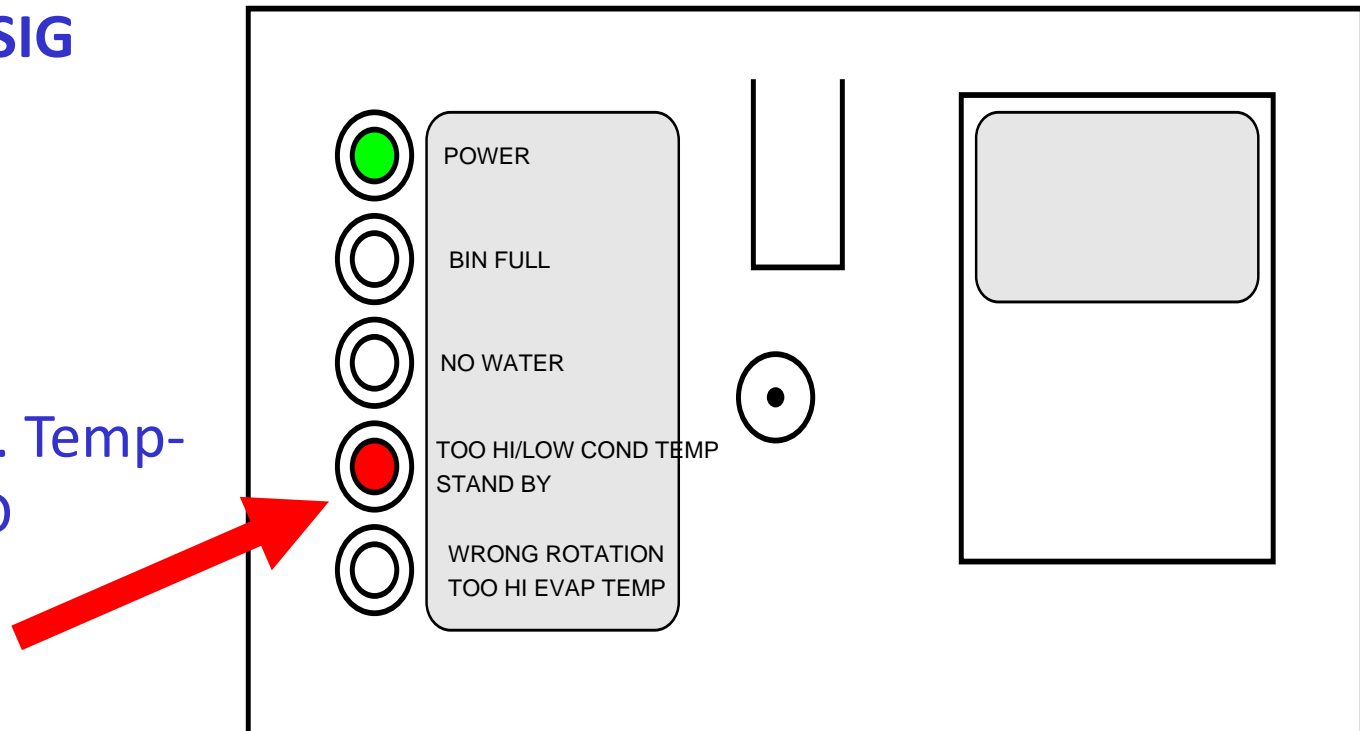
SERVICE ANALYSIS

**TOO HI CONDENSIG
TEMPERATURE**

(>60°C or >70°C)

**Too Hi/Low Cond. Temp-
Stand-by RED LED**

ON STEADY



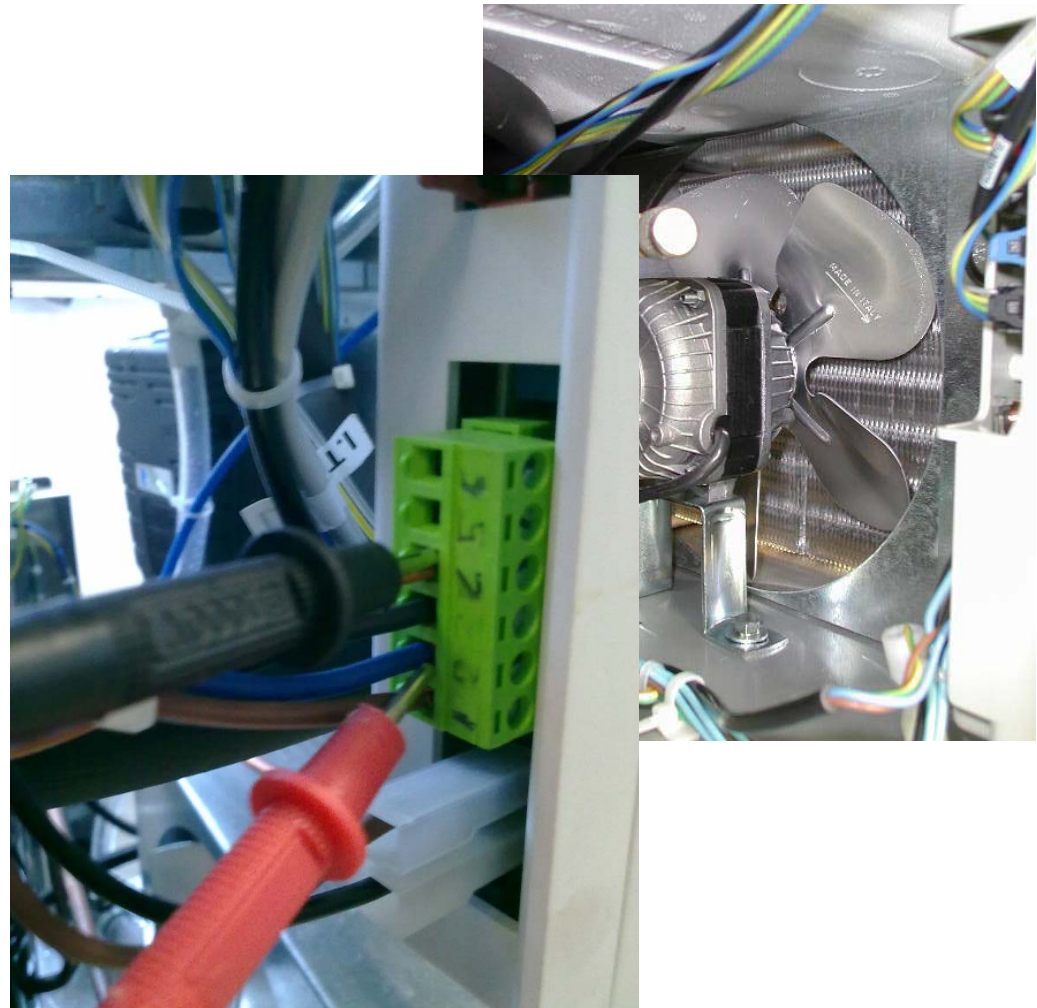
SERVICE ANALYSIS

On Air Cooled Version

check first for the correct operation of the fan motor

i.e.:

- Power out to the motor (contacts n. 2 & 4 of the terminal board)



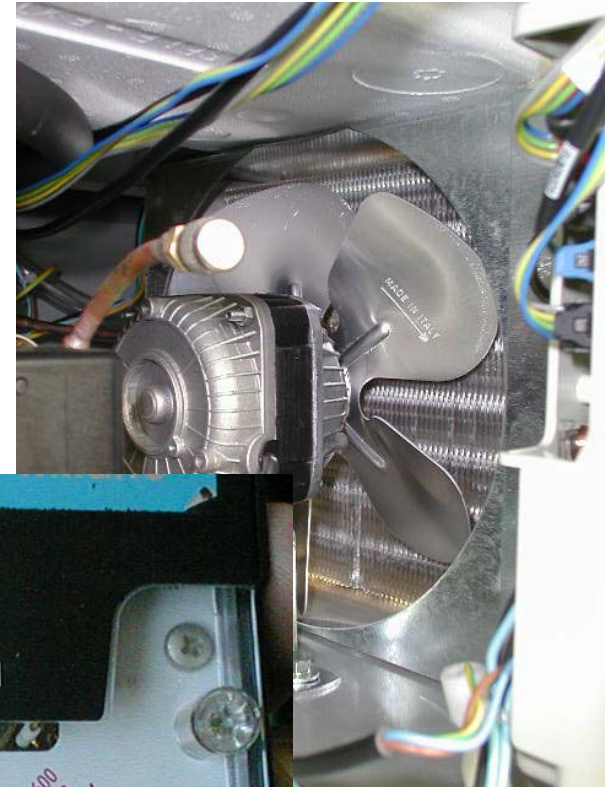
SERVICE ANALYSIS

On Air Cooled Version

check first for the correct operation of the fan motor

i.e.:

- Power to the motor
- Open winding of the motor





NEW MF..6 SERIES

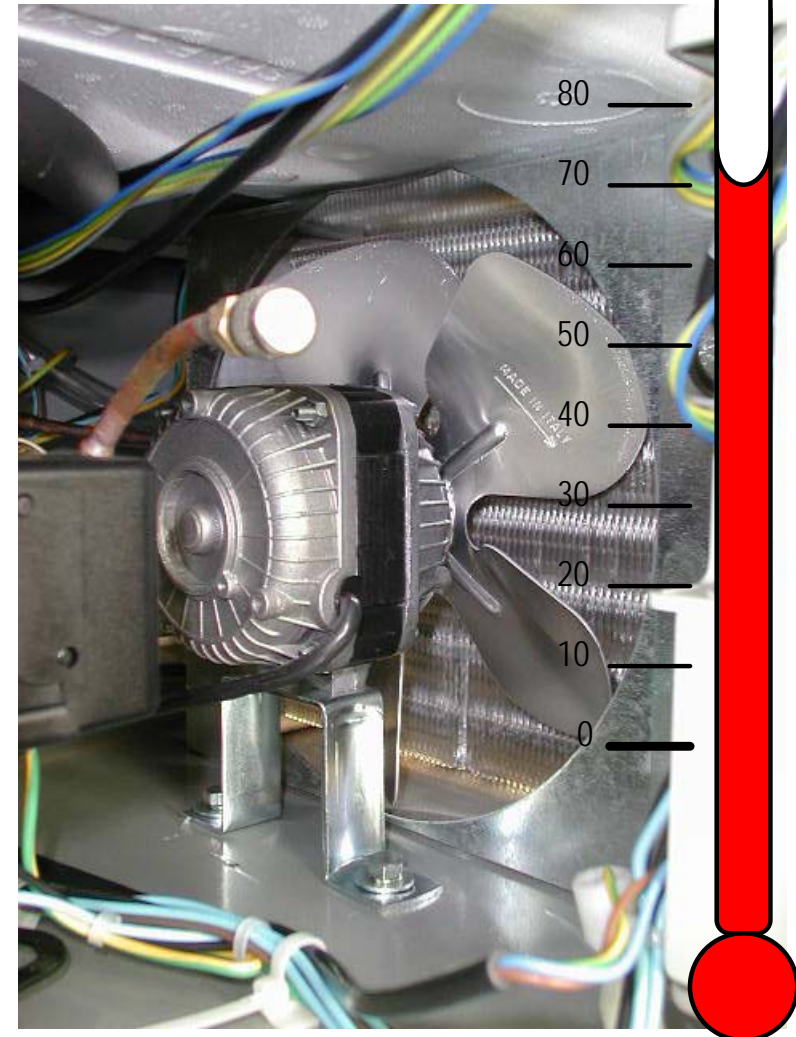
SERVICE ANALYSIS

On **Air Cooled Version** check first for the correct operation of the fan motor i.e.:

- Power to the motor
- Open winding of the motor
- Fan blade loose on fan motor shaft

SERVICE ANALYSIS

Check also for any possibility of **fan motor overheating** that can happen after a certain time from the start up of the machine.



SERVICE ANALYSIS

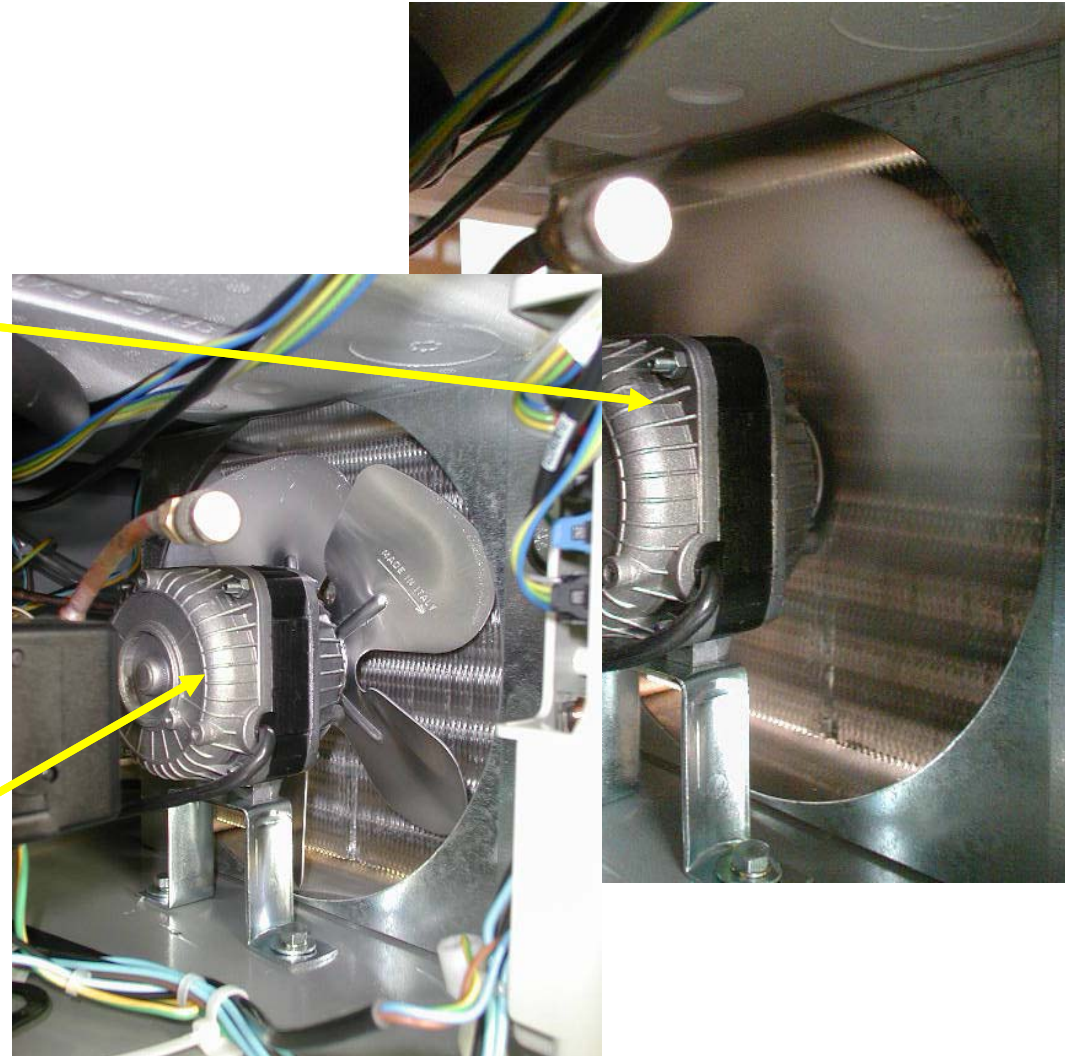
One more possibility
(very rare) it is a faulty PC
Board (TRIAC) that can
keep energized the fan
motor during the OFF
period with a low voltage
but higher than the
minimum one need for
tripping OFF the motor.



SERVICE ANALYSIS

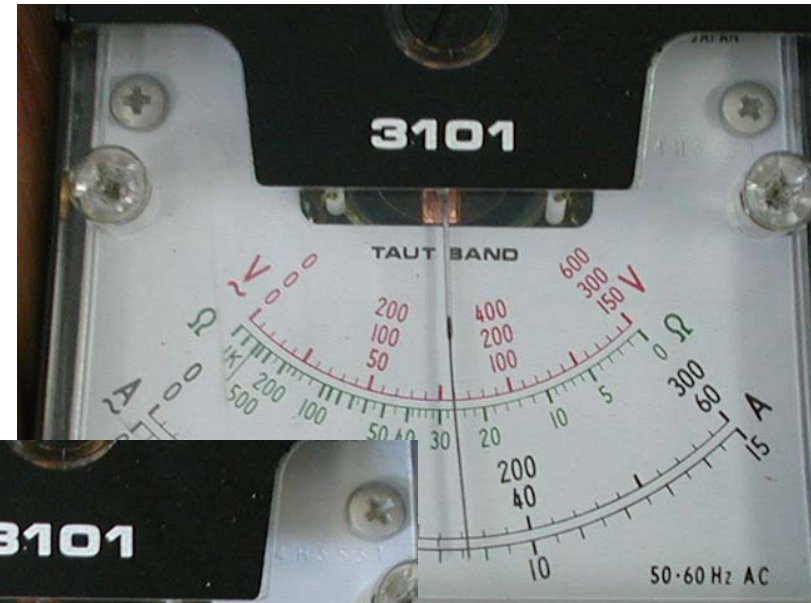
During normal operation mode the fan motor is energized at **230 V** during its **ON** mode and.....

.....is **not** energized at all during its **OFF** mode.



SERVICE ANALYSIS

In case the power during the OFF mode is between 140 and 170 V the fan motor is keeping running but at lower speed that can cause an overheat of the same.



SERVICE ANALYSIS

On **Water Cooled Version**

check first for the:

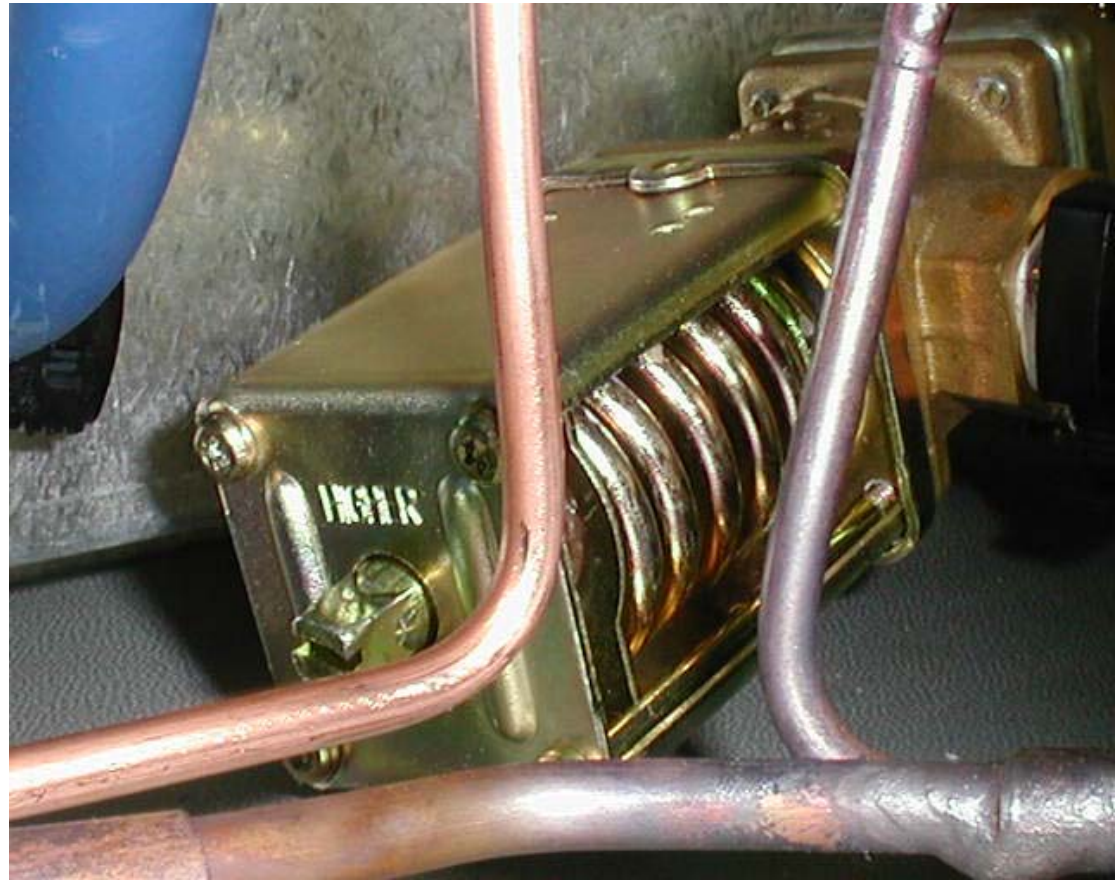
- **Water tap**



SERVICE ANALYSIS

On **Water Cooled**
Version check first for
the:

- Water tap
- **Correct operation**
of the water
regulating valve

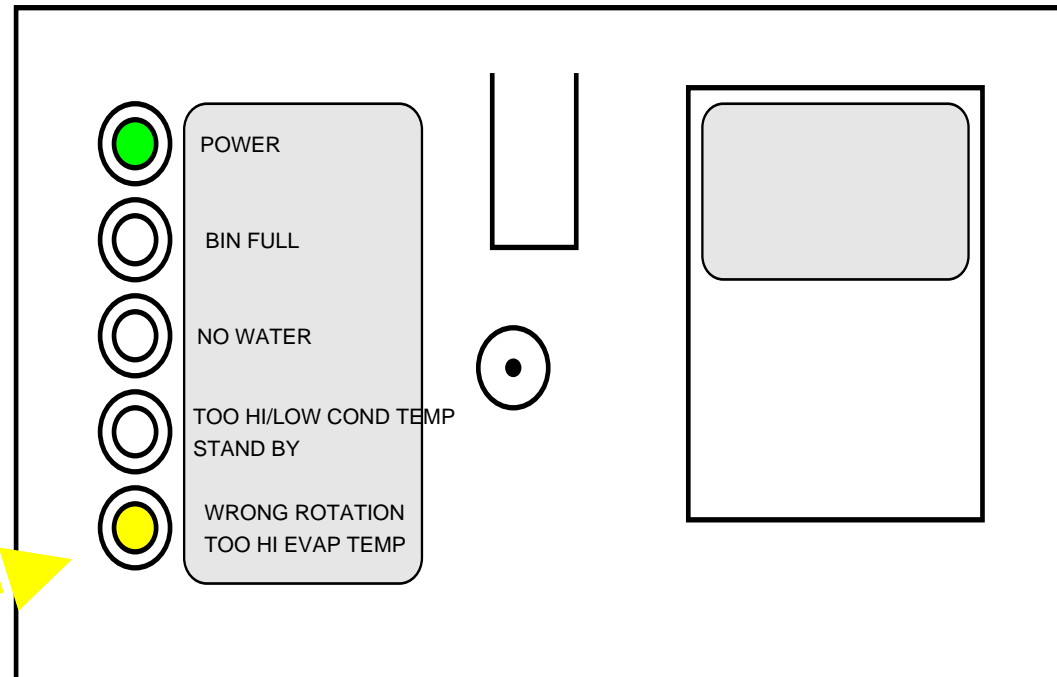
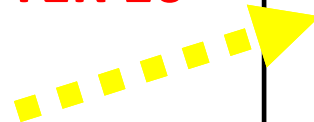


SERVICE ANALYSIS

**TOO HI EVAPORATOR
TEMPERATURE**

Wrong rotation/ Too Hi
Evap. Temp. YELLOW LED

**SLOW BLINKS AFTER 10'
OF OPERATION**



SERVICE ANALYSIS

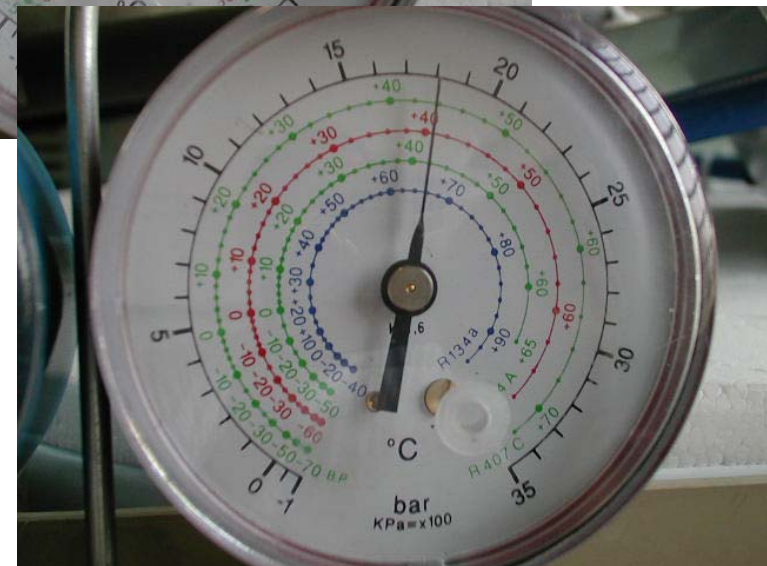
Check if ice is produced during the first ten minutes of operation; if so, the evaporator sensor is defective and must be replaced (not able to transmit the right current back to the PC Board).



SERVICE ANALYSIS

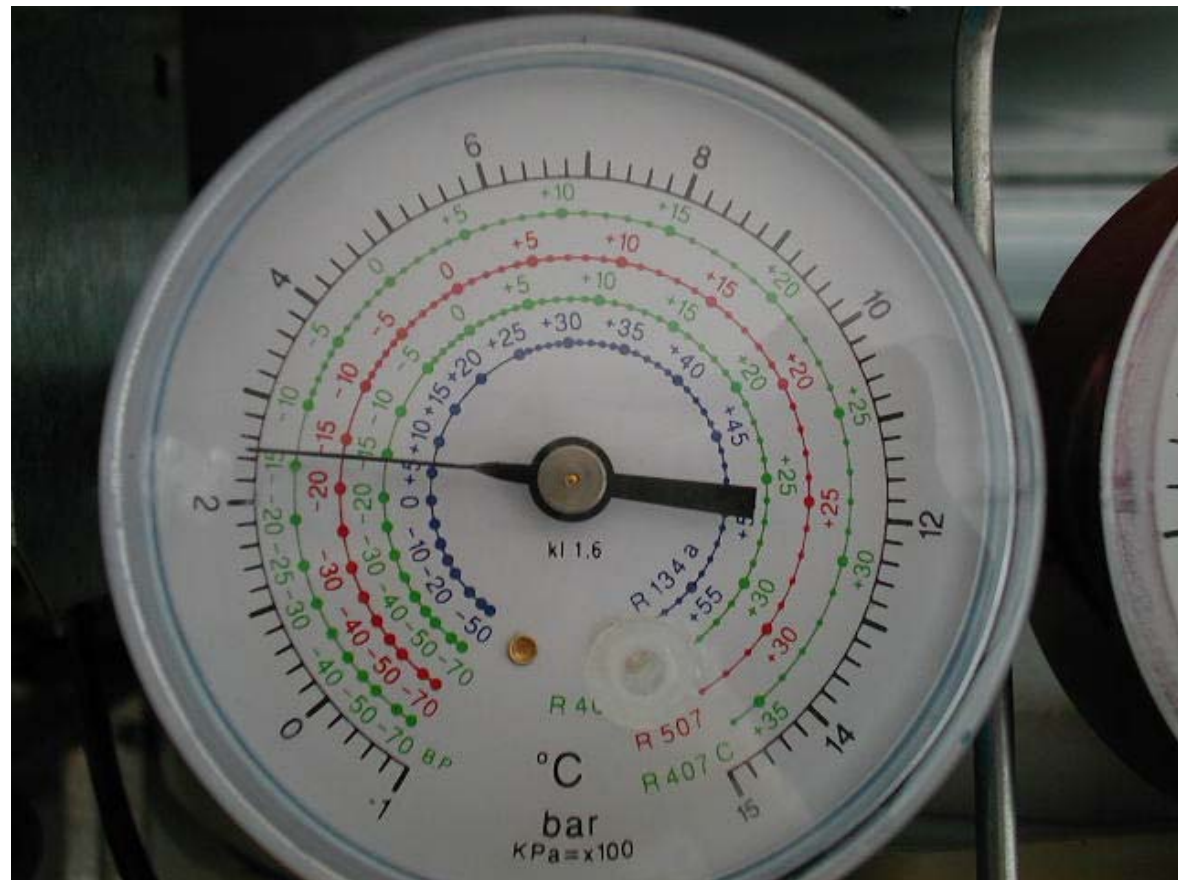
If no ice is produced check
for:

- Refrigerant charge. Hi
side pressure must be
between 17÷18 bar
(240÷250 PSI).....



SERVICE ANALYSIS

.....while suction
pressure must be 2.5
bar (35 PSI)

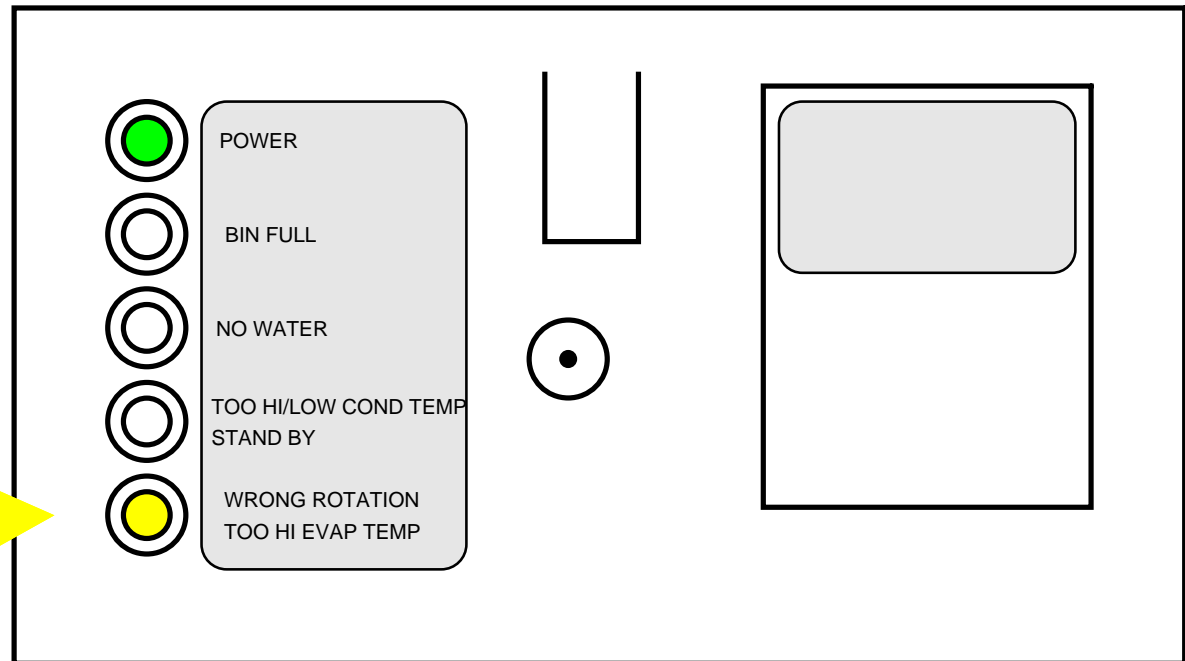


SERVICE ANALYSIS

**NO ROTATION
OF DRIVE MOTOR**

Wrong rotation/ Too Hi
Evap. Temp. YELLOW
LED

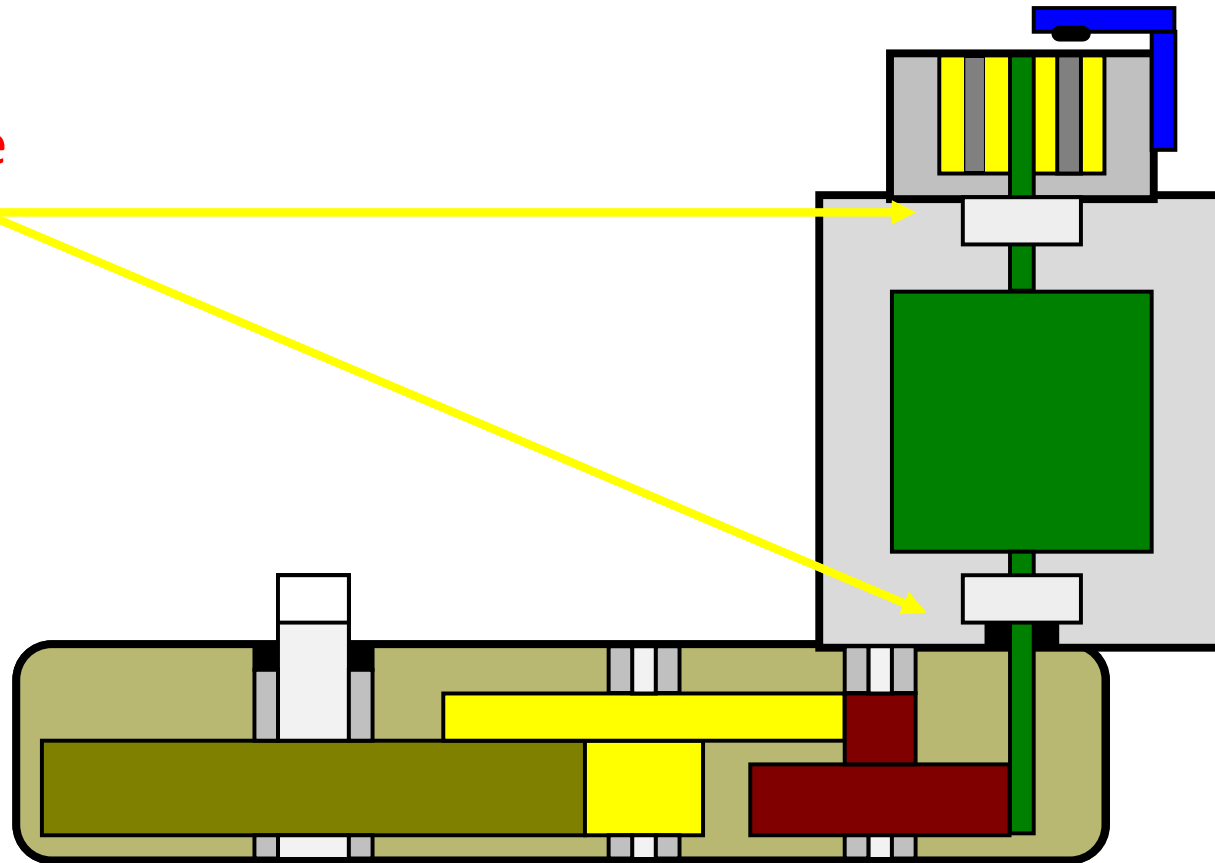
ON STEADY



SERVICE ANALYSIS

Check for:

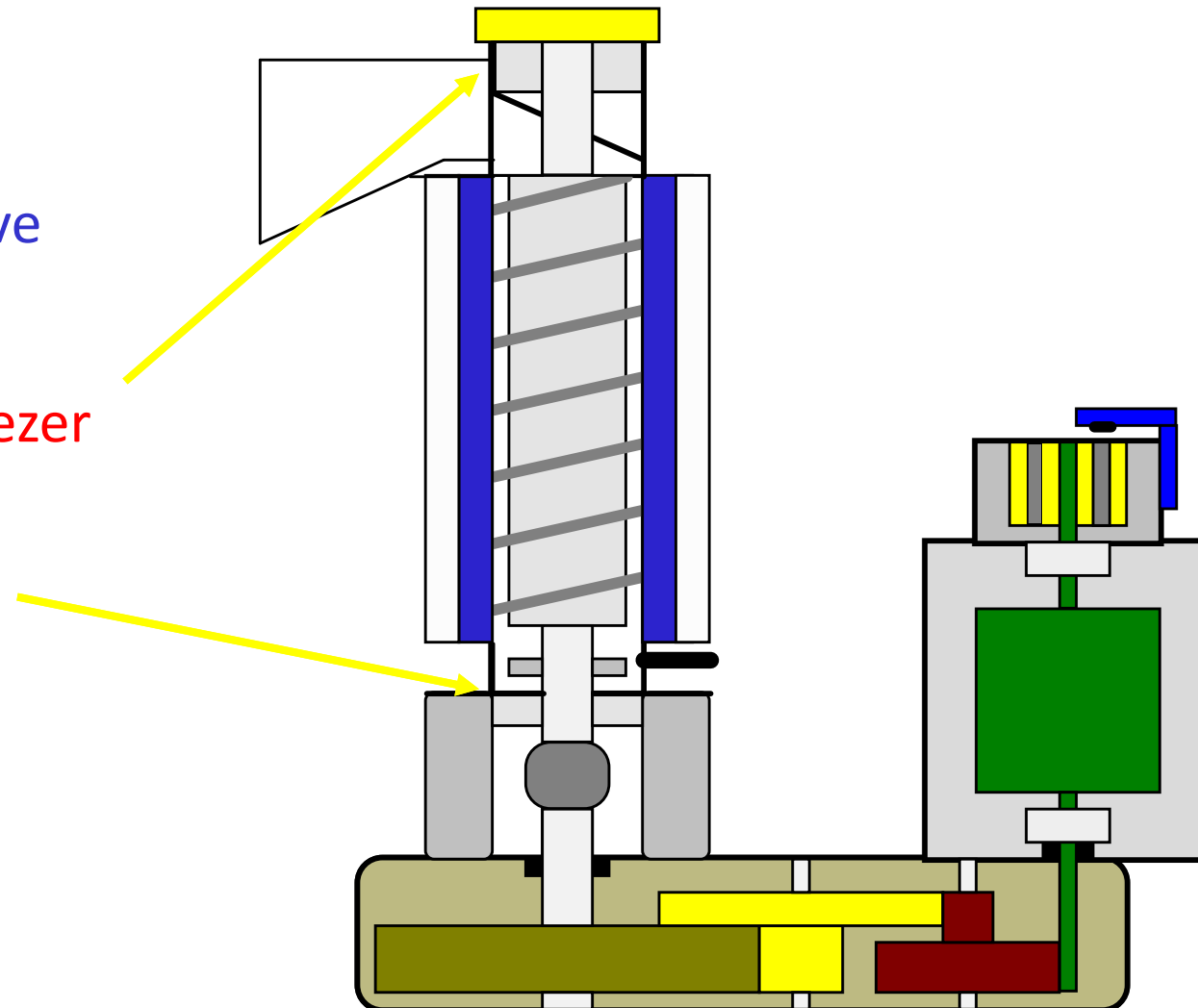
- Worn out drive motor bearings



SERVICE ANALYSIS

Check for:

- Worn out drive motor bearings
- Worn out freezer top or bottom bearings



Scotsman[®]
Ice Systems

NEW MF.6 SERIES

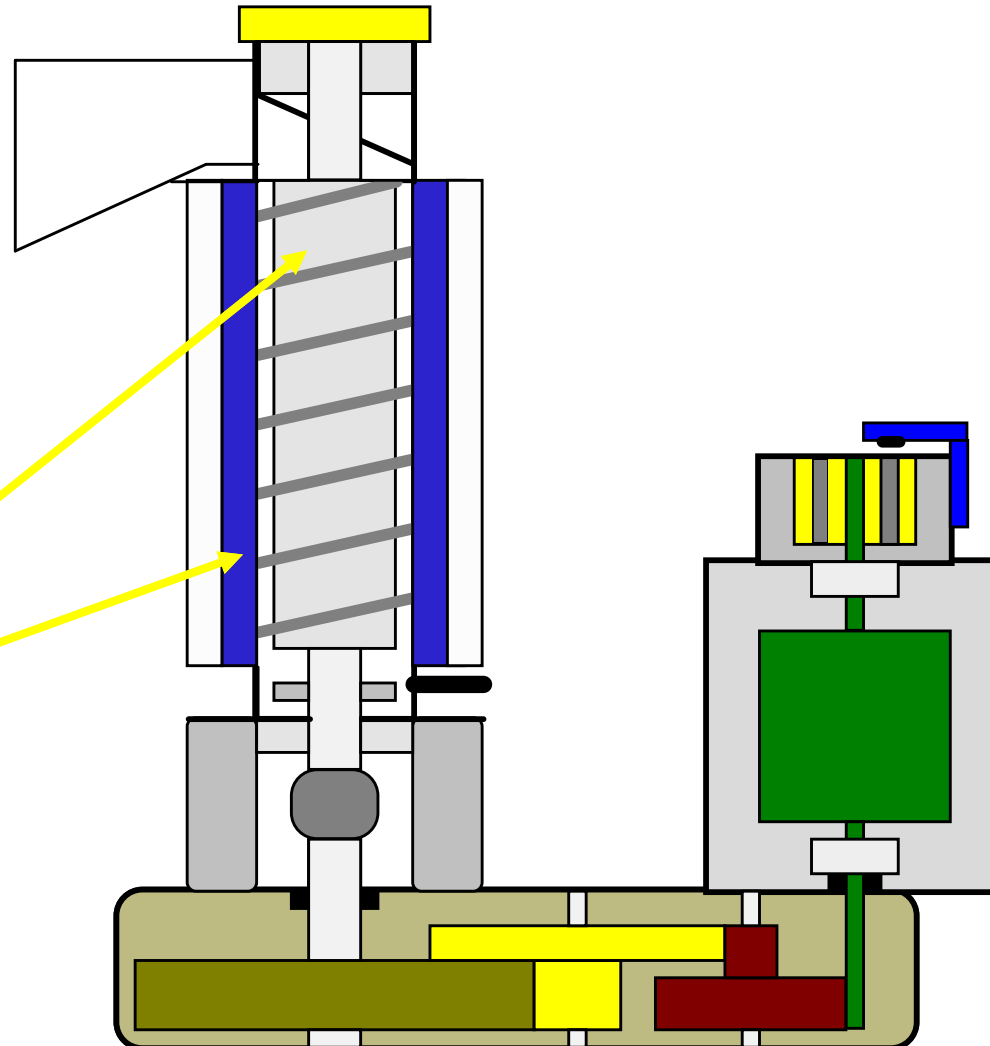
SERVICE ANALYSIS



SERVICE ANALYSIS

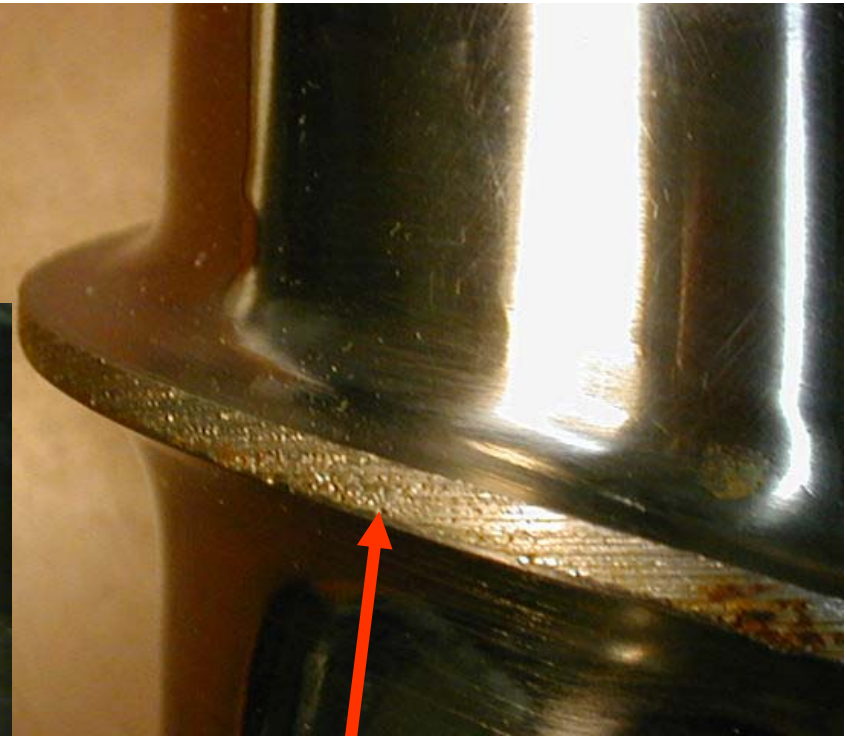
Check for:

- Worn out drive motor bearings
- Worn out freezer top or bottom bearings
- Worn out auger/freezer



SERVICE ANALYSIS

OK!

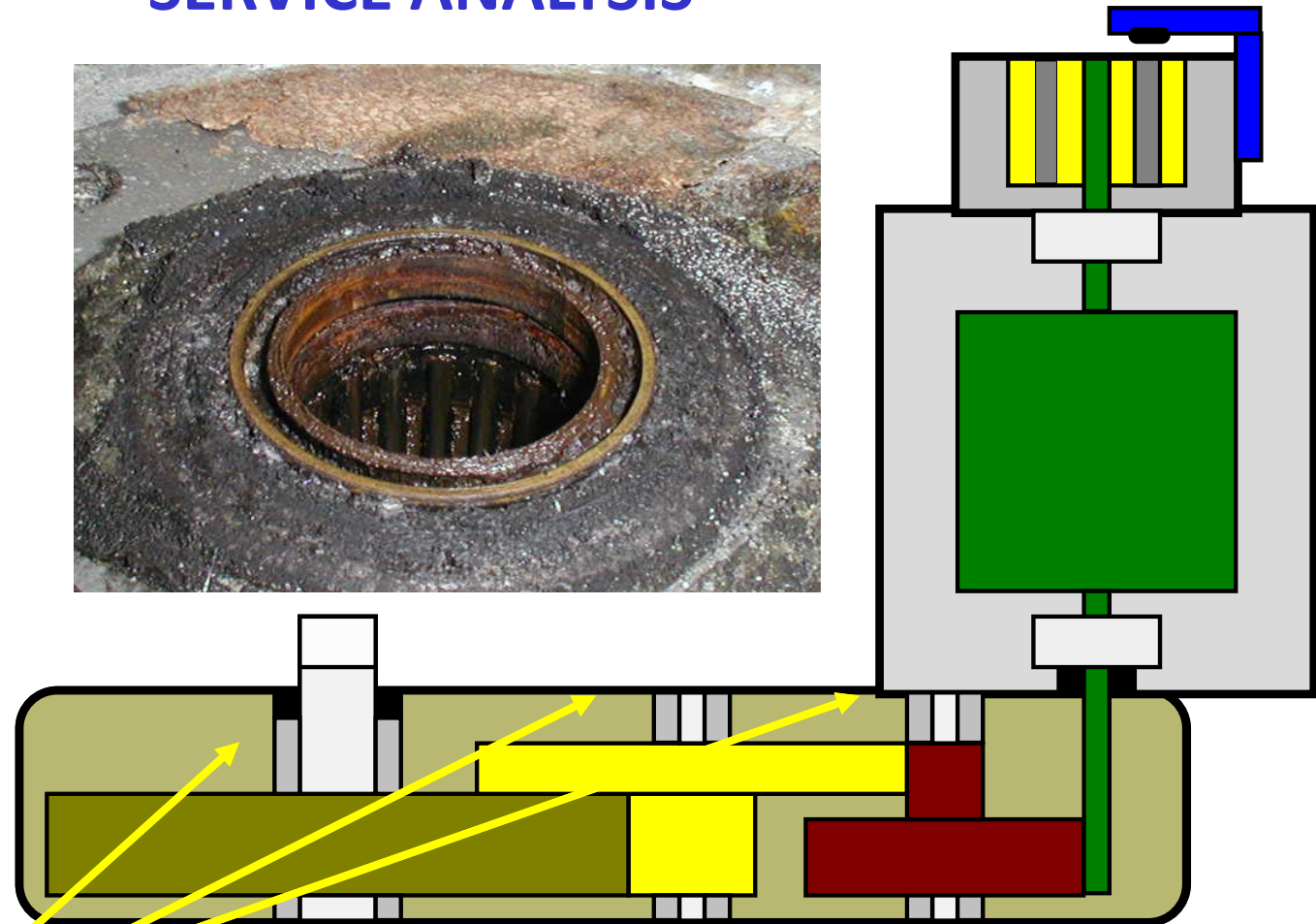


KO!

SERVICE ANALYSIS

Check for:

- Worn out drive motor bearings
- Worn out freezer top or bottom bearings
- Worn out auger/freezer
- Worn out gear box bearing/gears

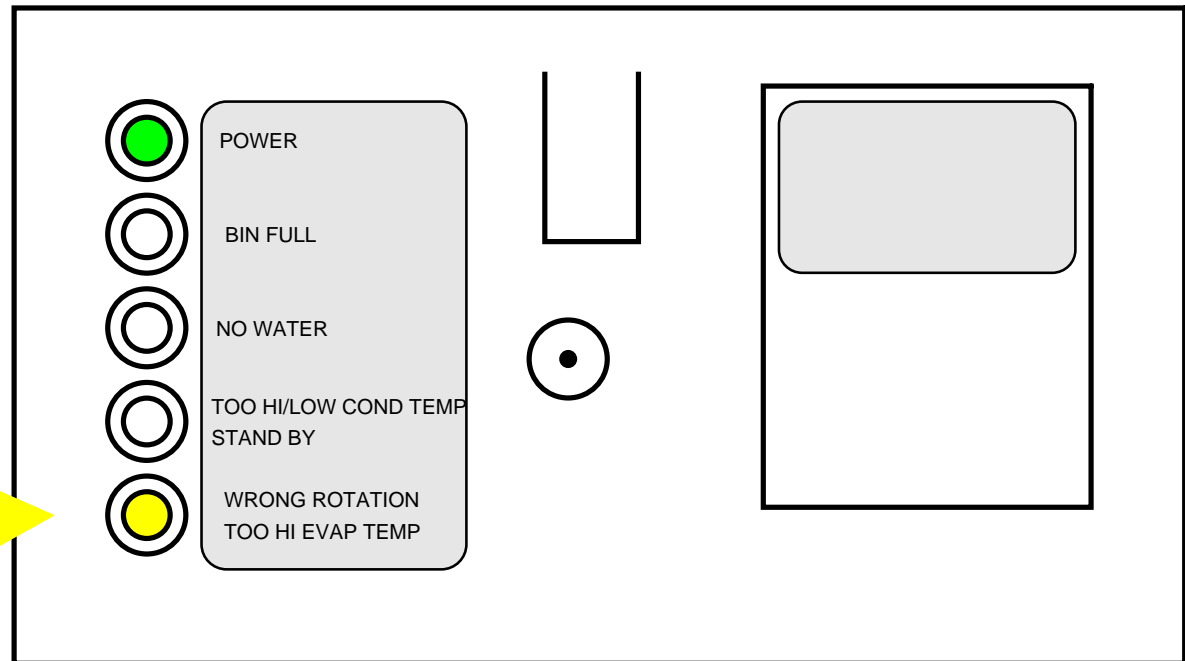


SERVICE ANALYSIS

**WRONG ROTATION
OF DRIVE MOTOR
(opposite direction)**

Wrong rotation/ Too Hi
Evap. Temp. **YELLOW**
LED

ON STEADY



SERVICE ANALYSIS

Check for:

- Correct wires connection to the drive motor capacitor
- Drive motor capacitor worn-out



SERVICE ANALYSIS

Check for:

- Correct wires connection to the drive motor capacitor
- Drive motor capacitor unloaded
- Freeze up of the evaporator



SERVICE ANALYSIS

Additional reasons for the tripping OFF at Rotation Error are:

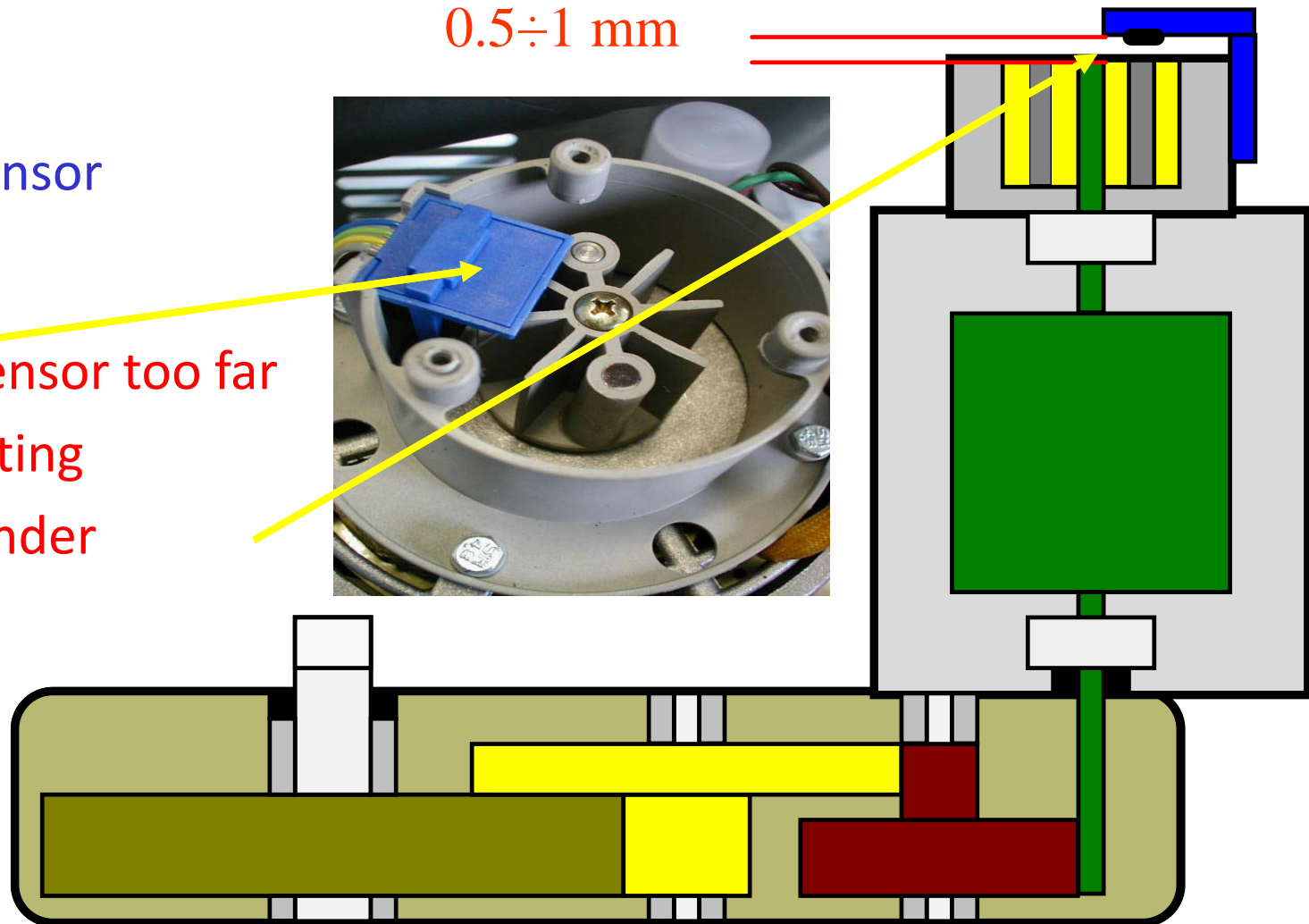
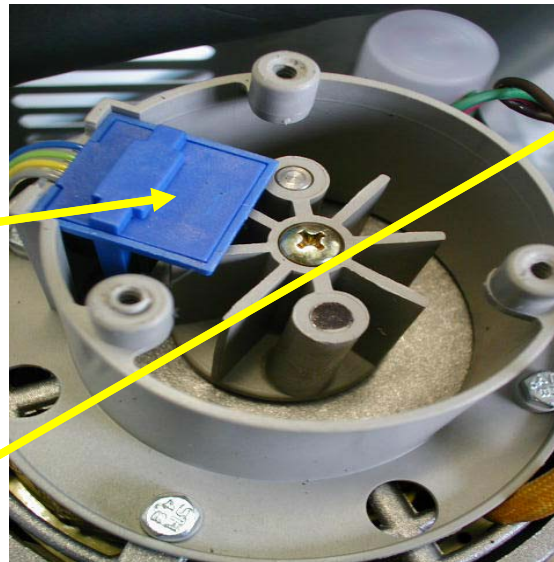
- Magnetic sensor unplugged



SERVICE ANALYSIS

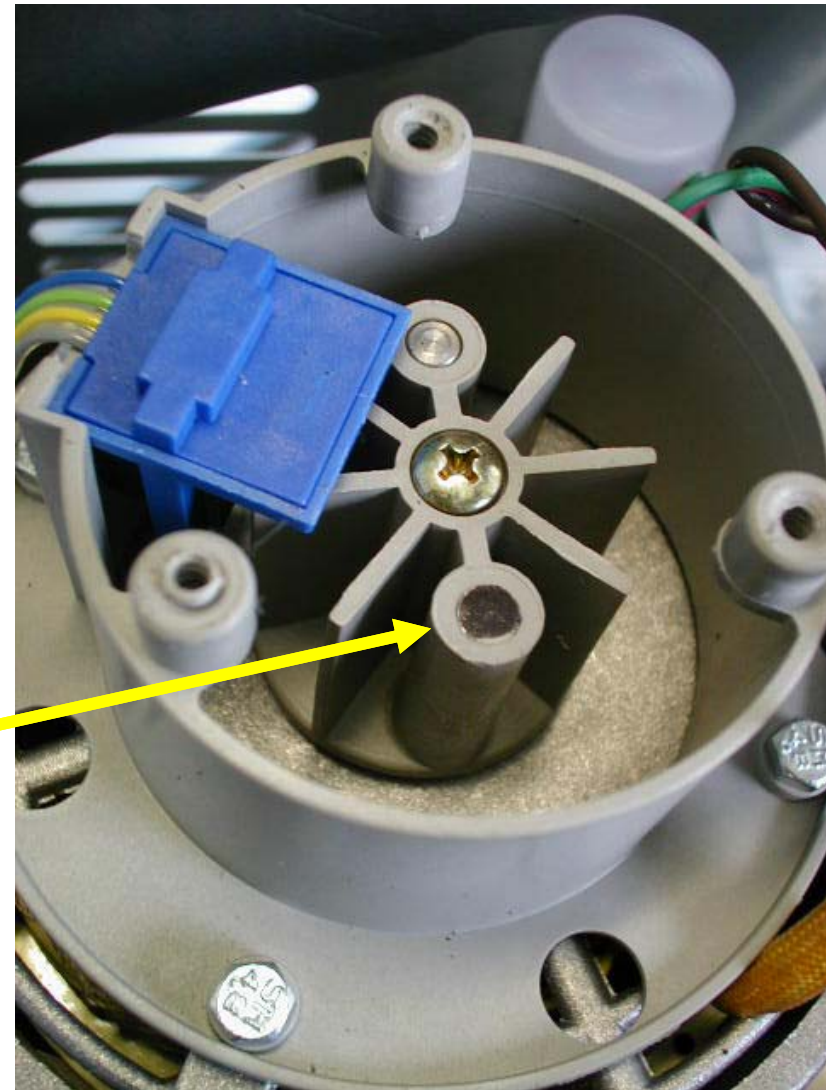
- Magnetic sensor unplugged
- Magnetic sensor too far from the rotating magnetic cylinder

0.5÷1 mm



SERVICE ANALYSIS

- Magnetic sensor unplugged
- Magnetic sensor too far from the rotating magnetic cylinder
- Magnetic cylinder partially or fully demagnetized



SERVICE ANALYSIS

Manual reset mode

The New Flaker PC Board Trip OFF definitively the machine on ALARM after three tripping OFF for the same reason in 4 hours.

In this way the New PC Board should avoid any Tripping OFF due to possible magnetic fields and/or micro black OUT of power supply that can affect the correct operation of the Flaker machine.

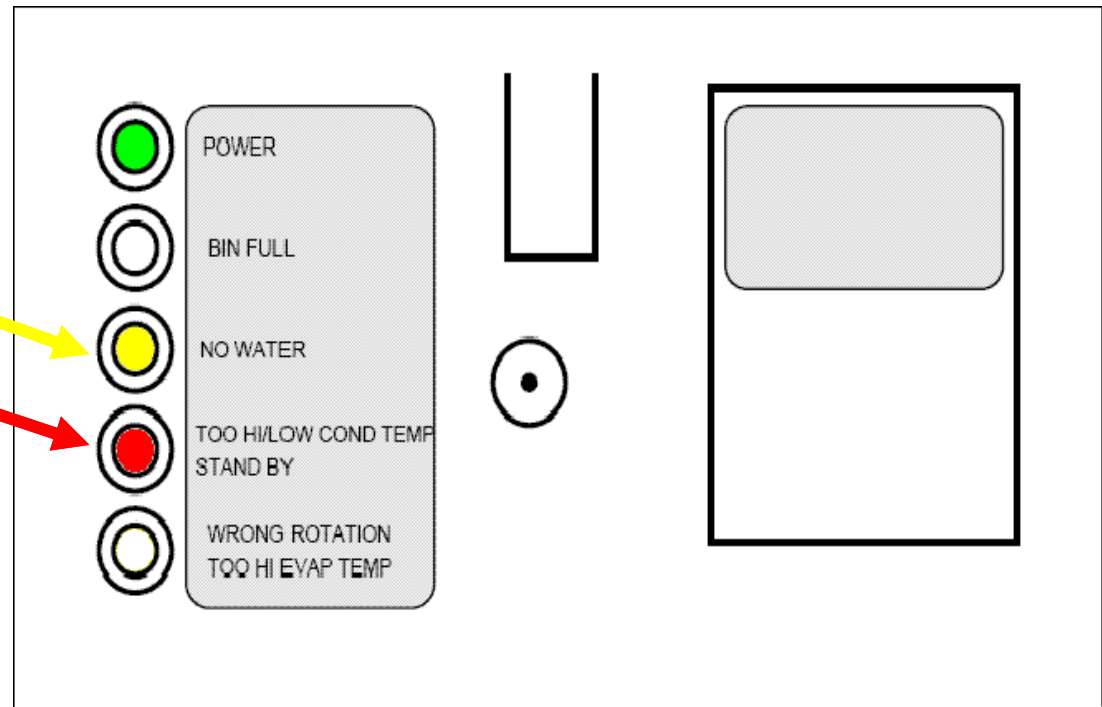
SERVICE ANALYSIS

**CONDENSER SENSOR OUT
OF ORDER**

No Water YELLOW LED
+
Stand-by Red LED

BOTH ON STEADY

**REPLACE CONDENSER
SENSOR**



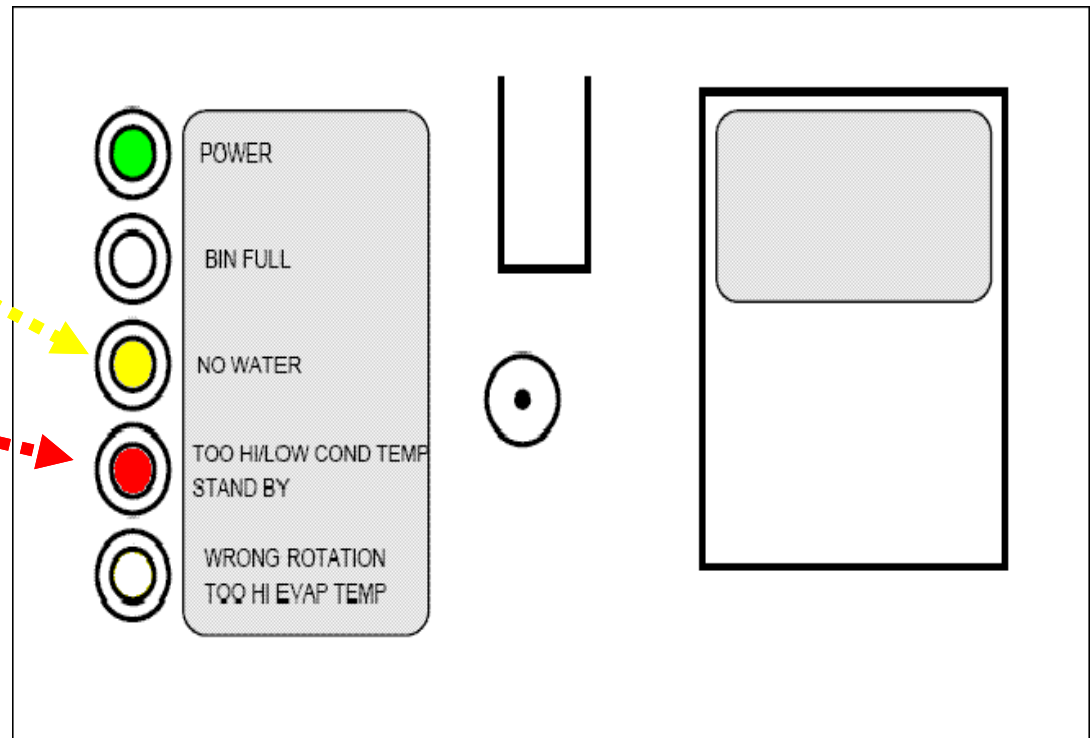
SERVICE ANALYSIS

EVAPORATOR SENSOR OUT OF ORDER

No Water YELLOW LED
+
Stand-by Red LED

BOTH BLINKING

REPLACE EVAPORATOR SENSOR





NEW MF.6 SERIES

**REPLACEMENT OF
THE AUGER,
WATER SEAL AND
BEARINGS**



NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Remove first the

top panel and

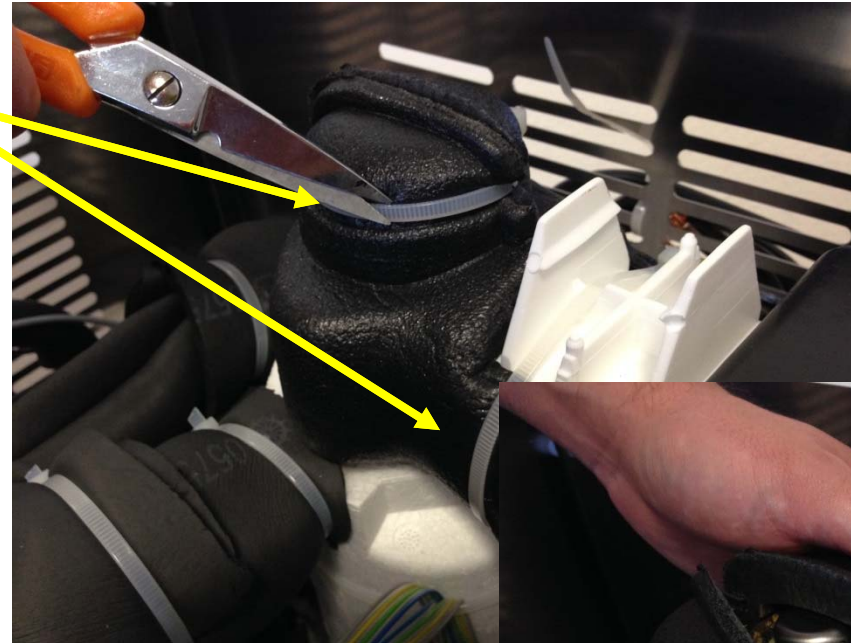
then



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

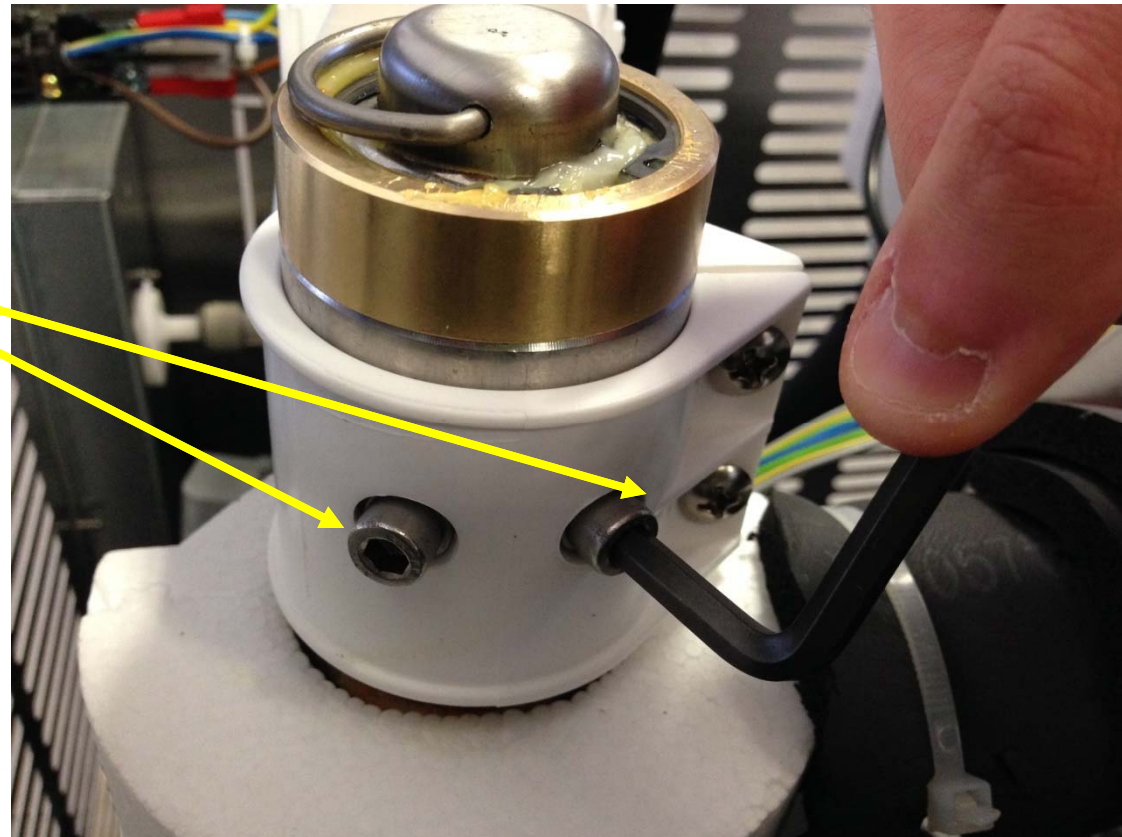
.....remove ice

spout insulation.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Unscrew and
remove the two
screws securing
the brass ice
breaker to the
evaporator.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Grasp with a screw driver the wire cap hook located at the top of the freezer and pull out the auger and attached ice breaker assembly.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

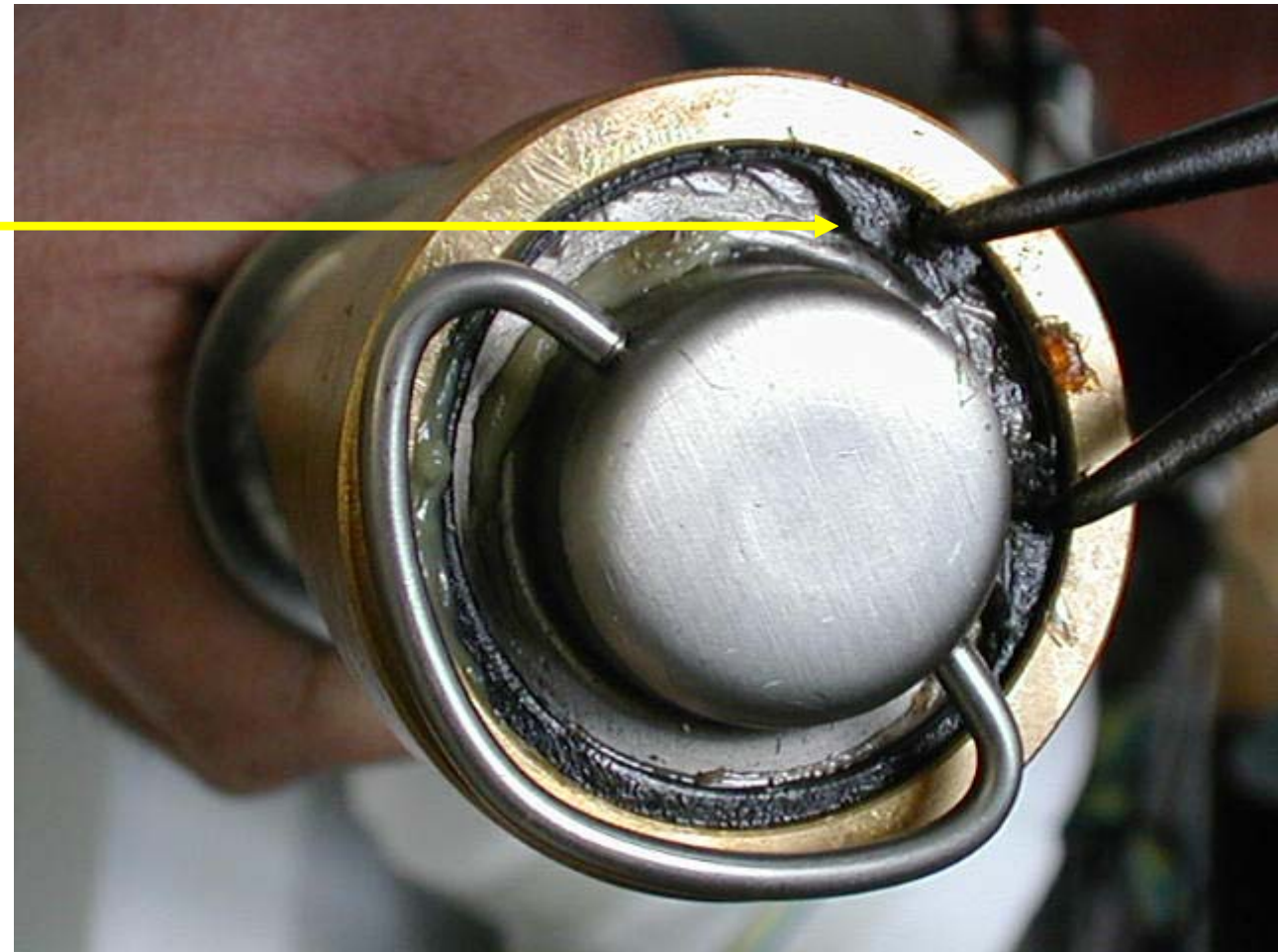
Parts pulled out from the top of the evaporator/worm tube are:

- **Ice breaker assembly**
- **Auger**
- **Top Half of the water seal**



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

With a clip
ring pliers
remove the
retaining ring
and the cap
from the ice
breaker.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Unloose and
remove the
screw and.....



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

.....remove
the ice
breaker
assembly
from the
auger.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Clean away
the old grease
from the
interior of the
ice breaker
and inspect
the conditions
of the top
bearing

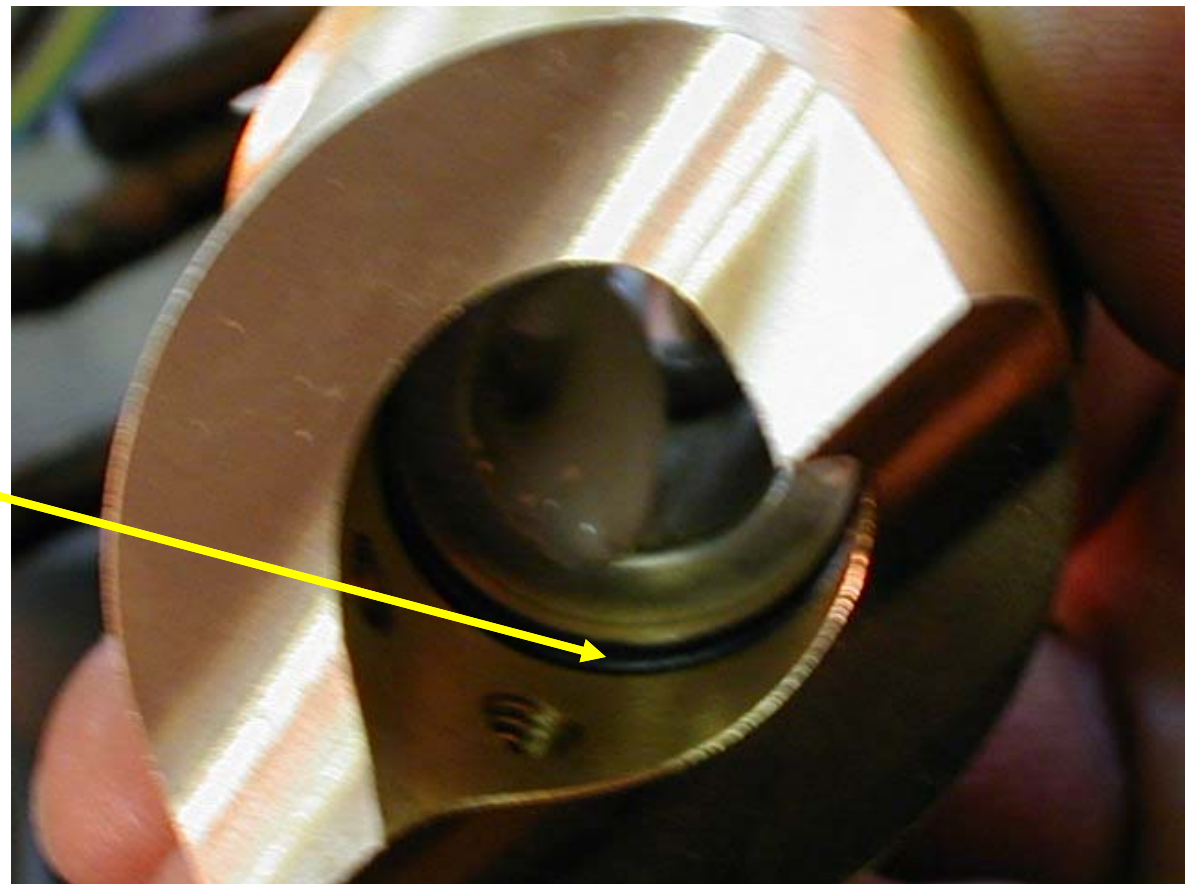




NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

..... as well as
the condition
of the O ring.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

..... And the
condition of
the O ring
located on the
auger shaft .

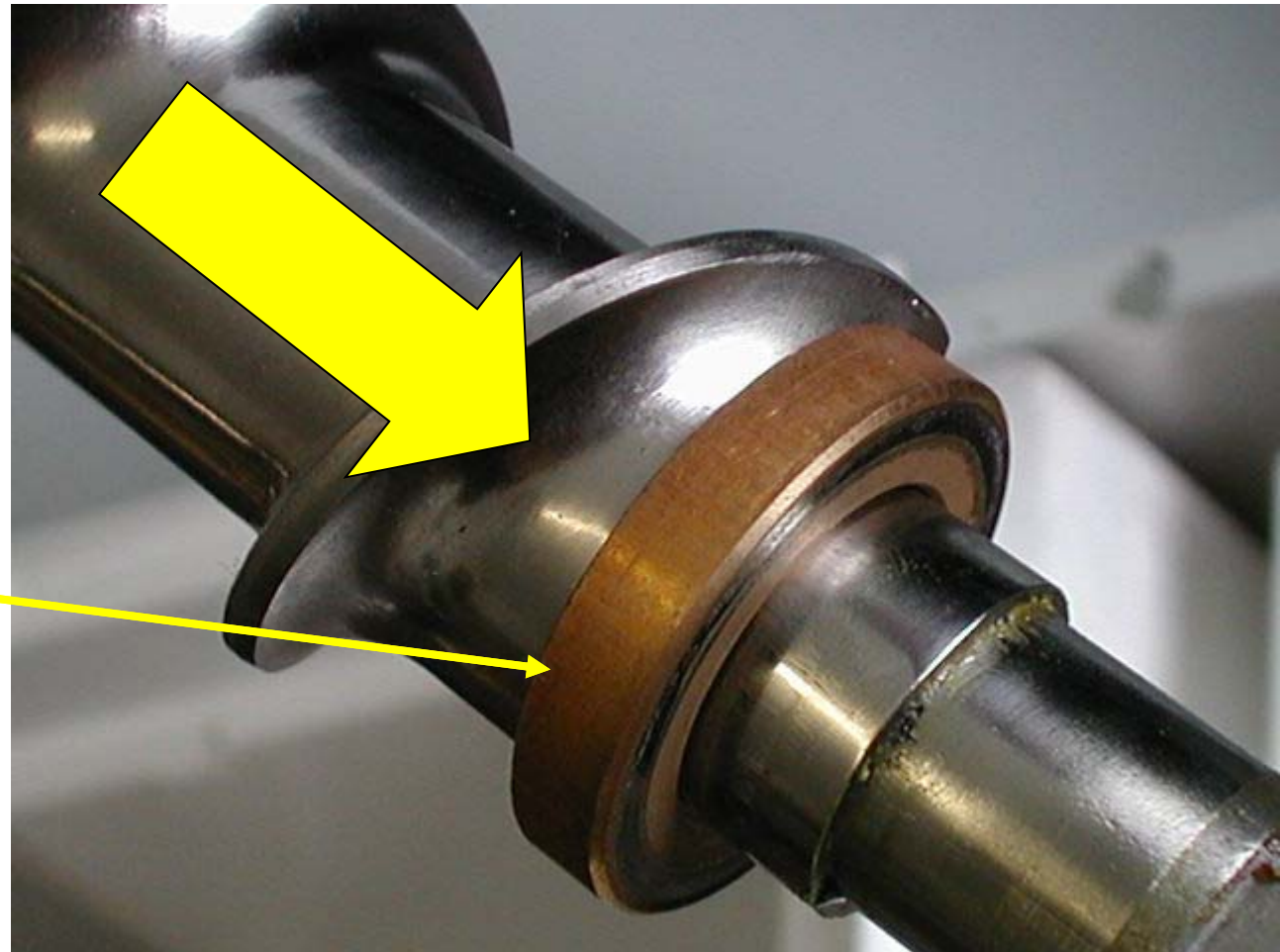




NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Slide off from the bottom of the auger the upper half of the water seal.

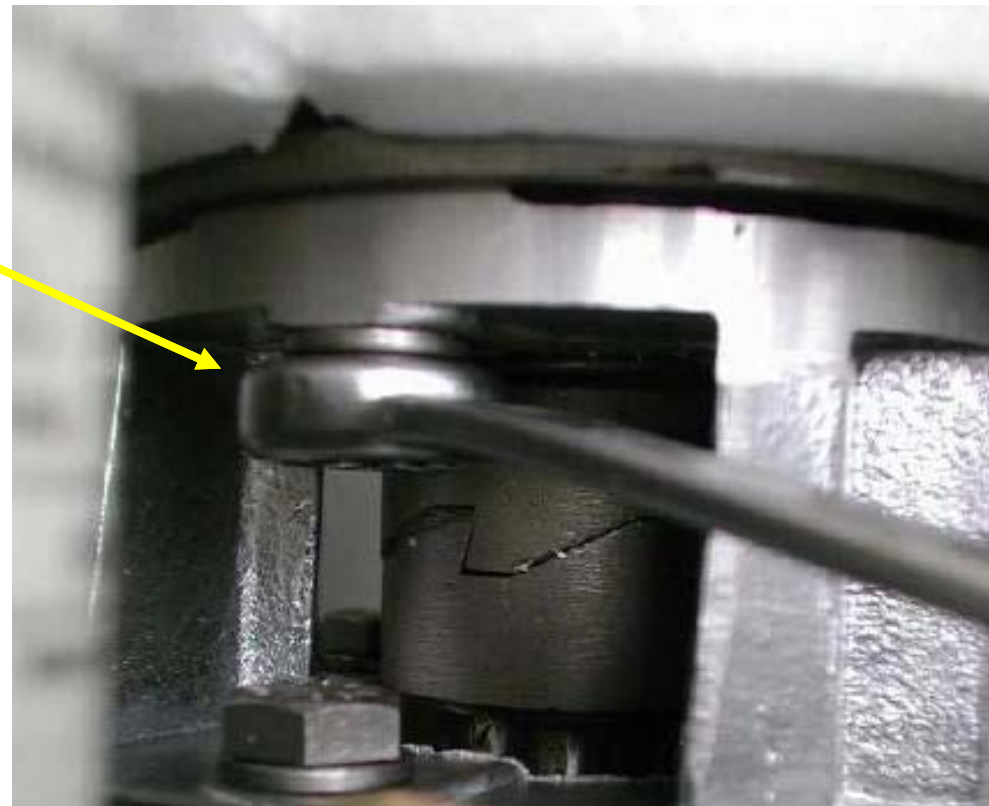




NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

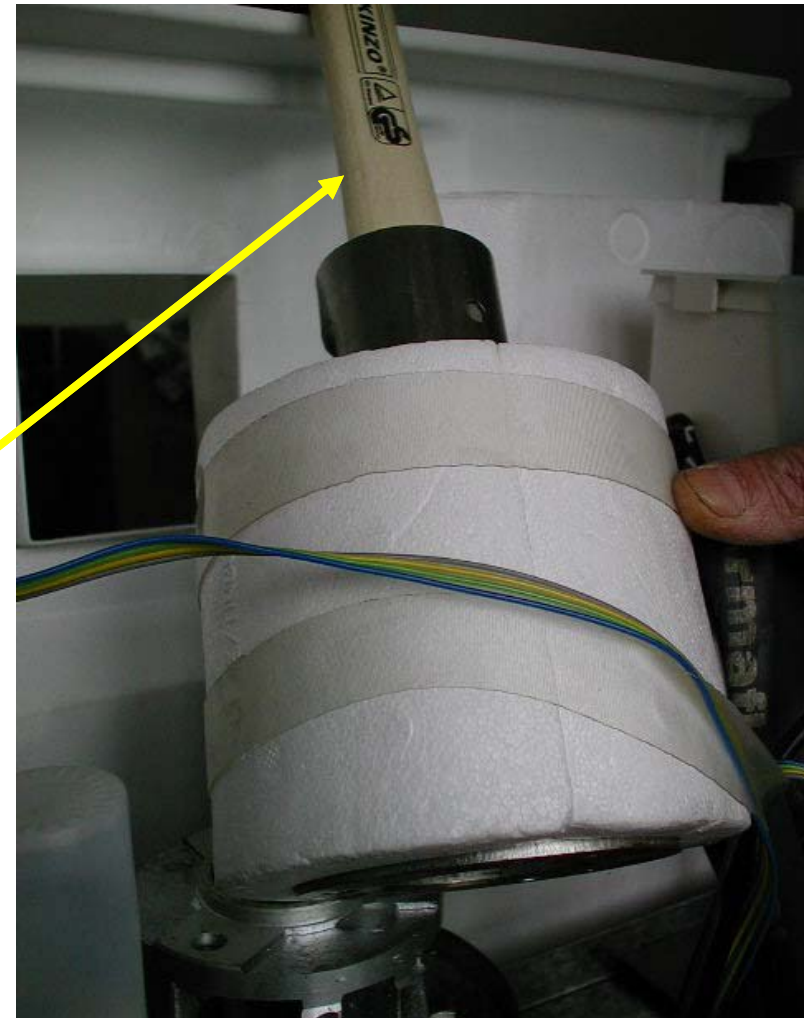
Unloose and remove the three bolts and lock-washers holding the freezer assembly to the aluminum adapter then



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

..... raise the freezer assembly off the adapter and move it out so to have enough room to work.

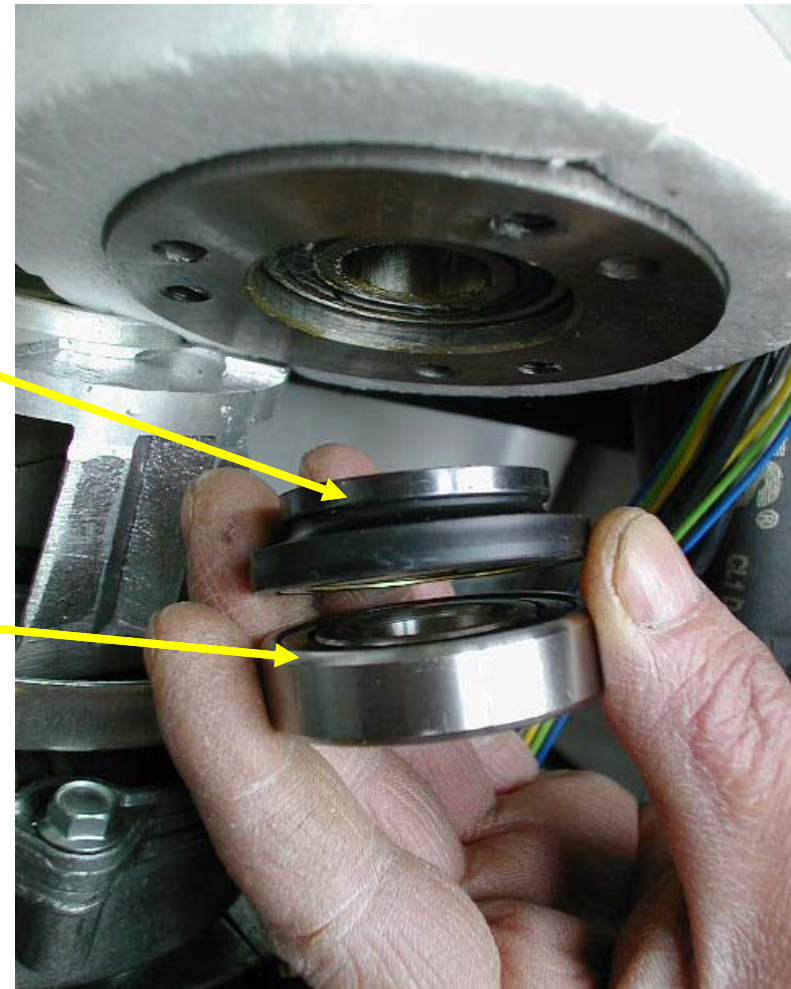
Using a suitable wooden dowel inserted through the top of the freezer.....



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

.....tap the lower half
of the water seal

.....and the lower
bearing out the bottom
of the freezer.



NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

It is good practice to replace the **water seal assembly, the bottom bearing, the ice breaker assy (including top bearing and the O ring)** any time the auger is removed.

A **Kit is available** for this purpose containing a **can of waterproof special grease**.





NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

MF 46-56-66

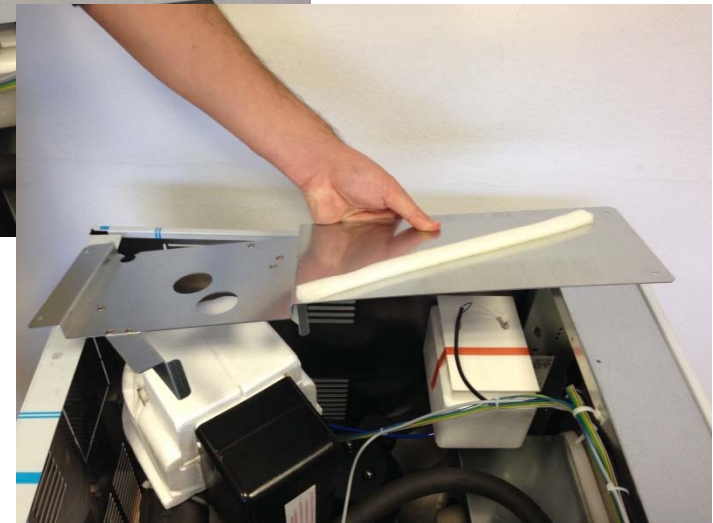
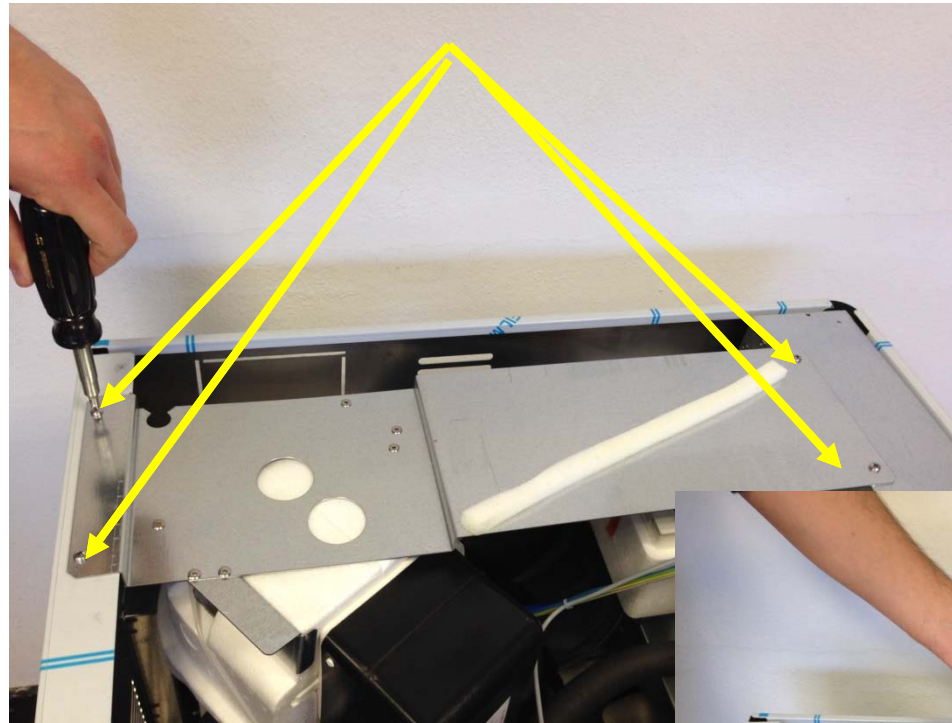
REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Remove first
the front and
top panel and
then



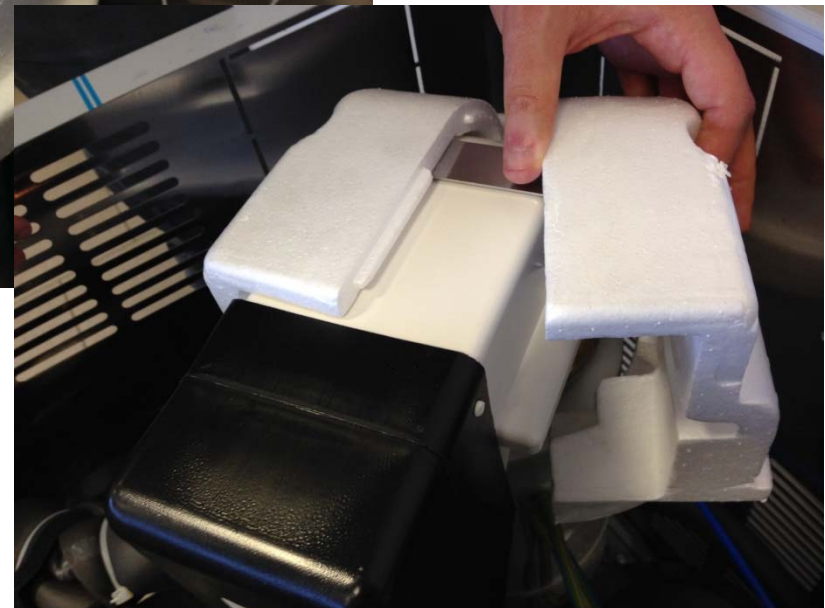
REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Unloose the four screws holding the metal bracket and remove it from the frame of the machine



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Cut the plastic
clamp and
remove the
polystyrene
ice spout
insulation
covers

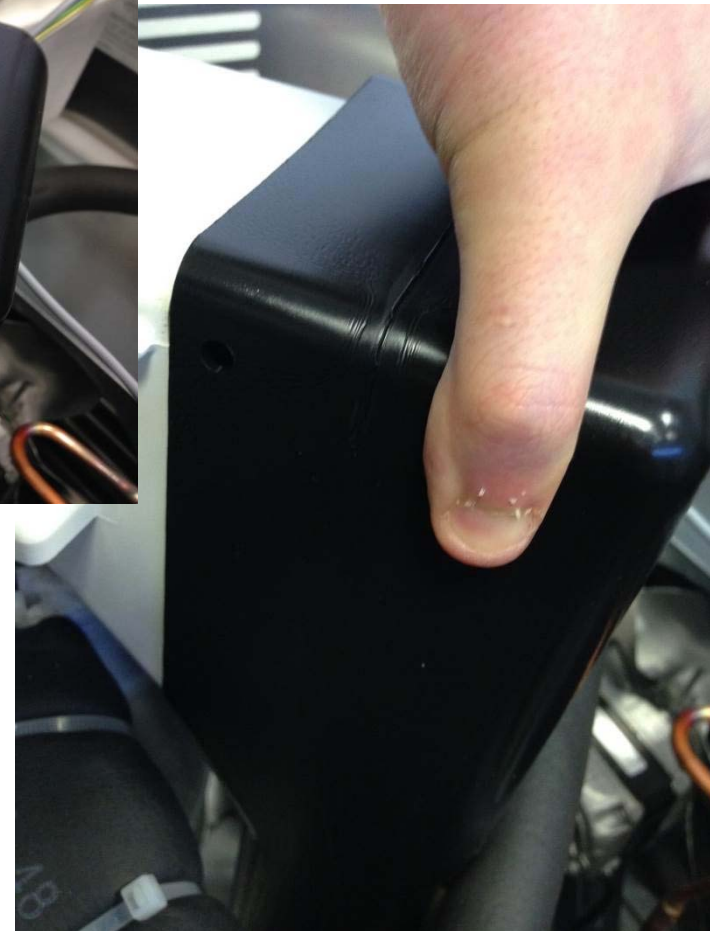




NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Remove the
ice chute
from the ice
spout



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

...unloose the two screws
securing the ice spout metal
bracket to the ice breaker and
remove it ...

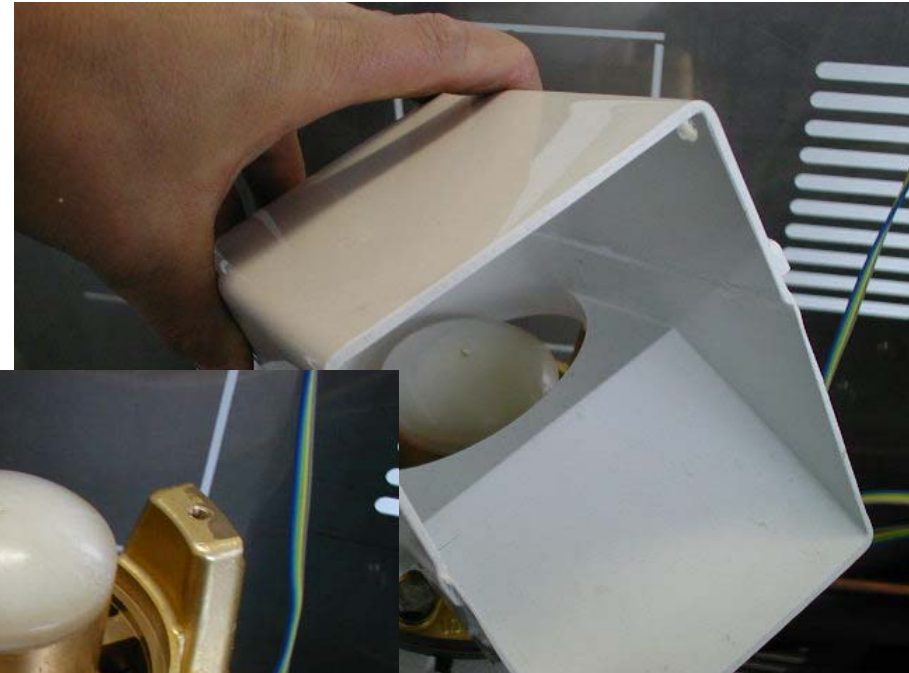


REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Remove the plastic ice spout....

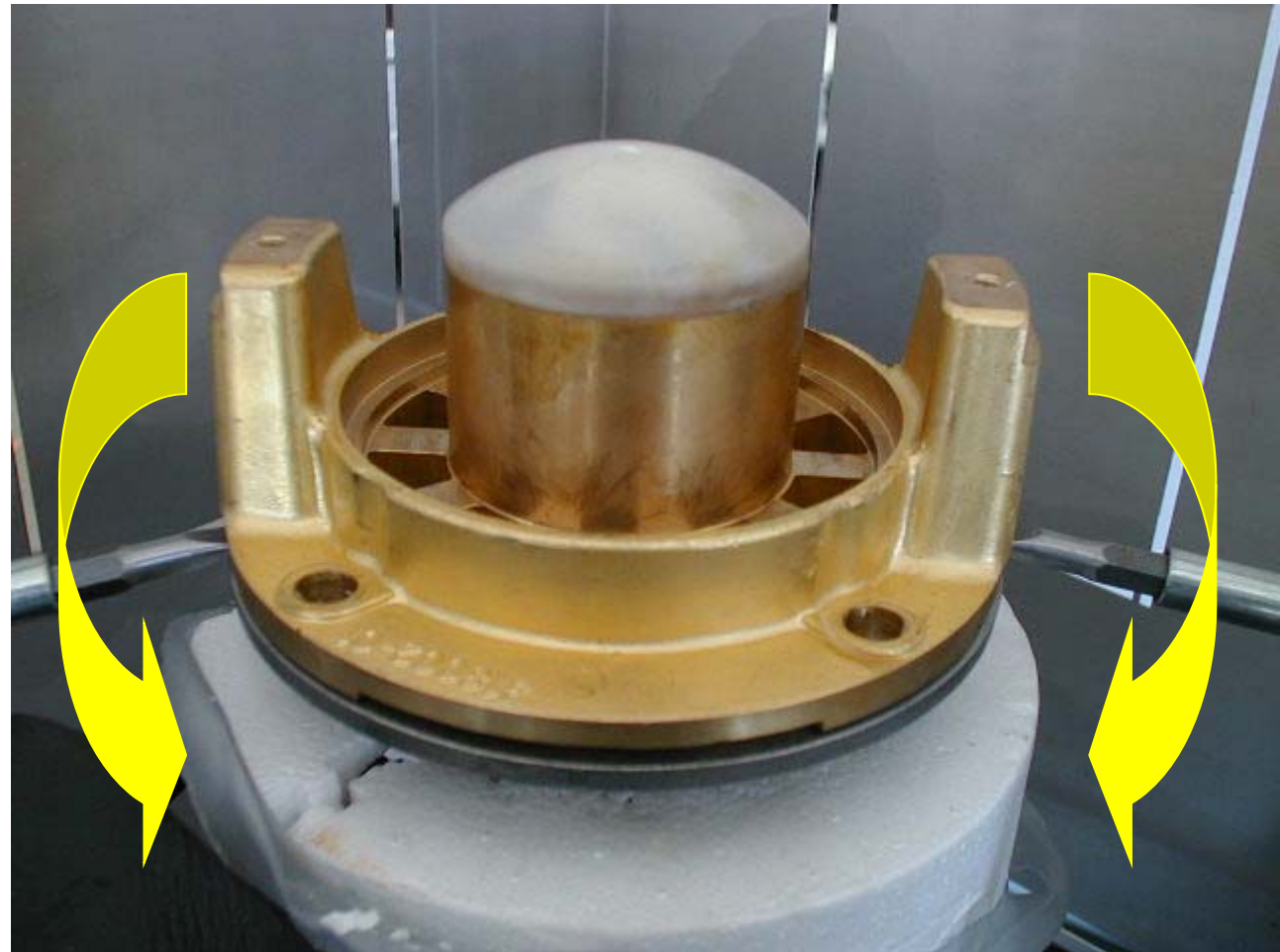
....then

unloose the
four bolts
holding the
ice breaker
to the
upper
flange of
the freezer.



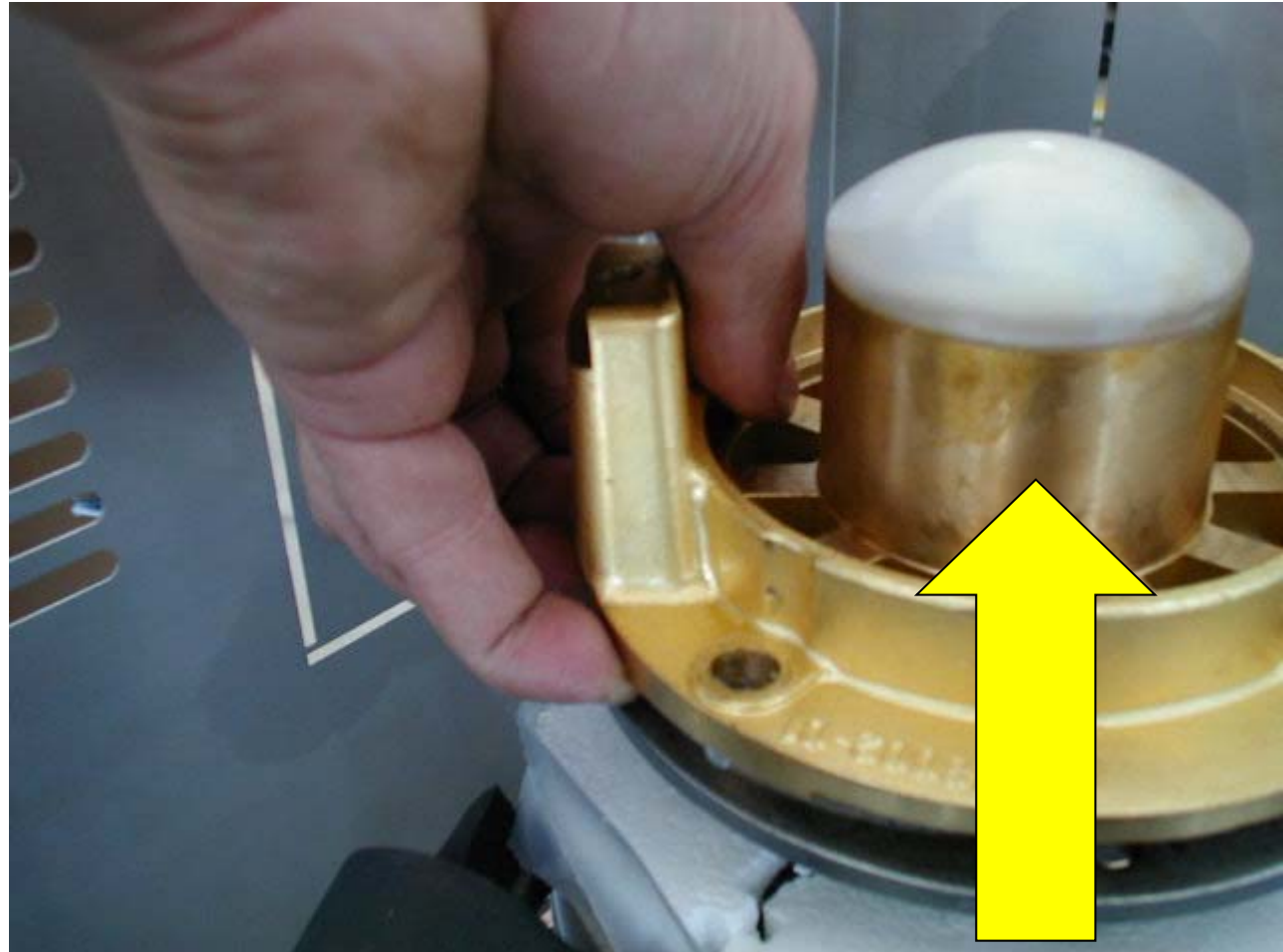
REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

With a couple
of screwdrivers
rise up a little
bit the ice
breaker and
auger assembly
then



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

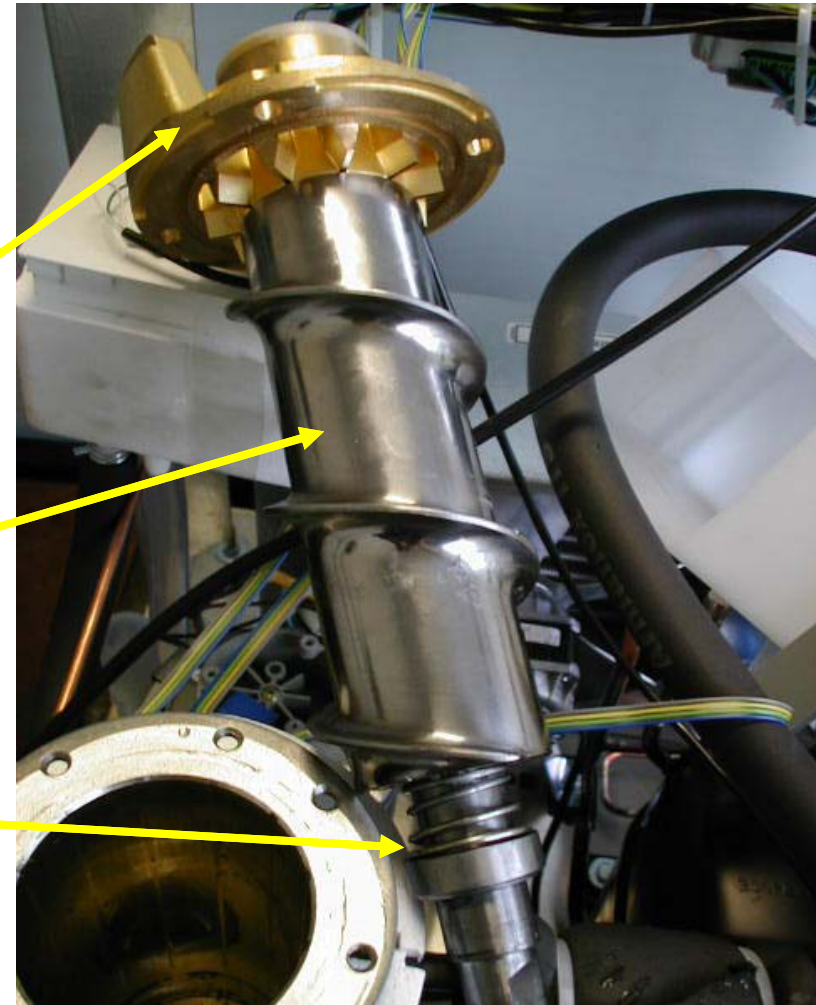
.... pull out the
auger and ice
breaker
assembly.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Parts pulled out from the top of the evaporator/worm tube are:

- Ice breaker assembly
- Auger
- Top half of the water seal



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

With a
screwdriver
remove the
plastic cap
from the upper
side of the ice
breaker.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Unloose and
remove the
screw and.....

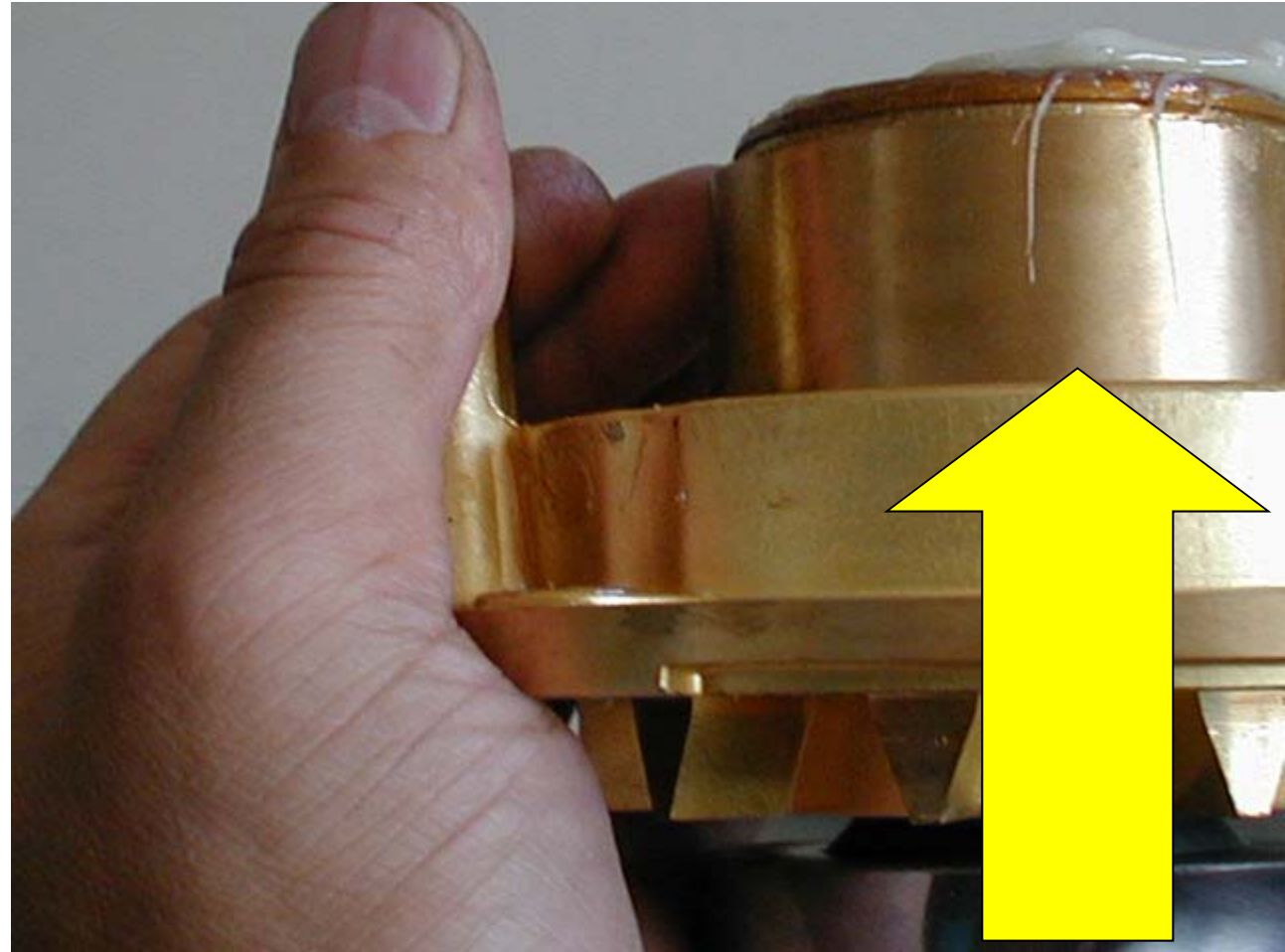




NEW MF.6 SERIES

REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

.....remove
the ice
breaker
assembly
from the
auger.



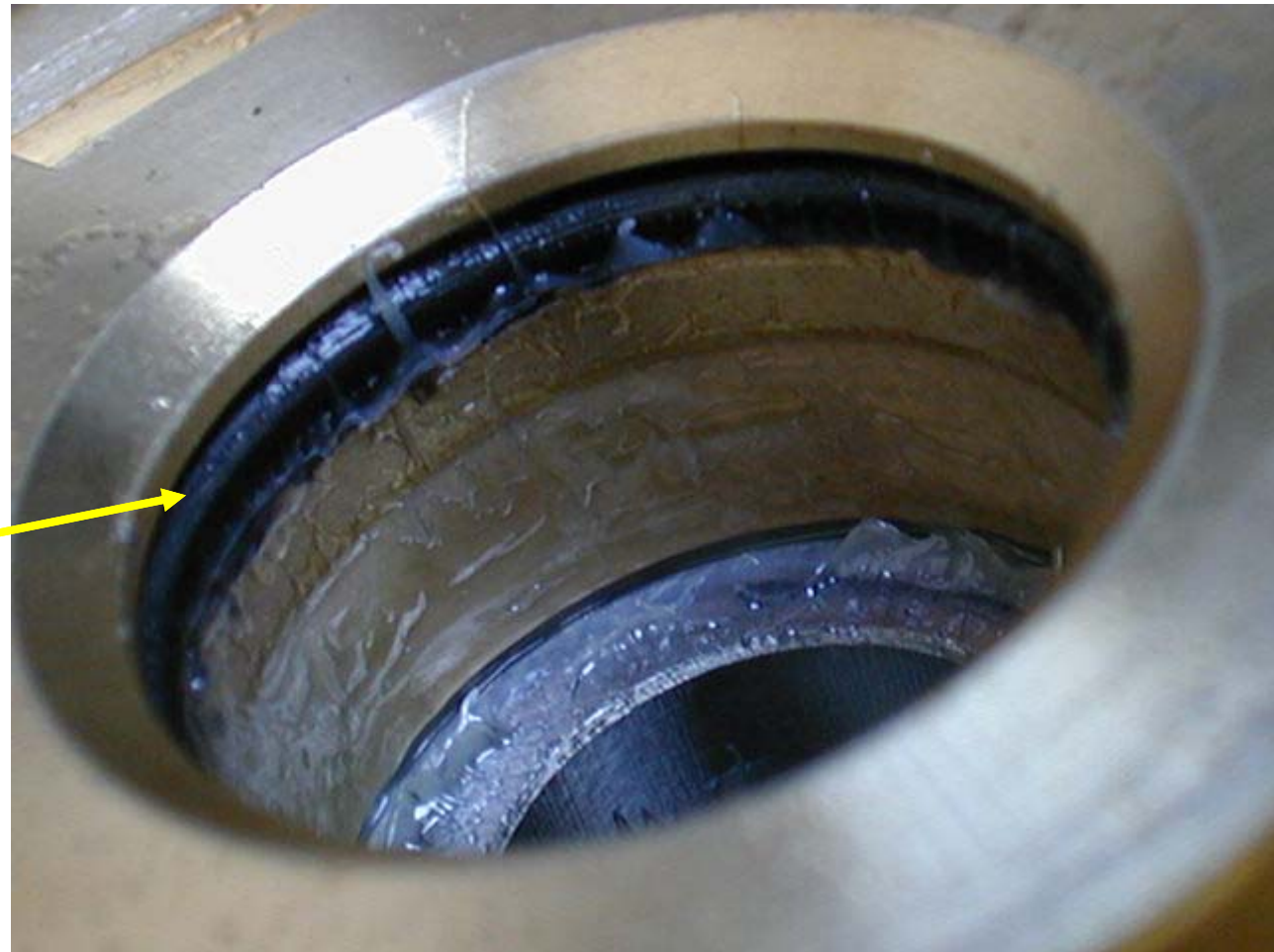
REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Clean away
the old grease
from the
interior of the
ice breaker
and inspect
the conditions
of the top
bearing



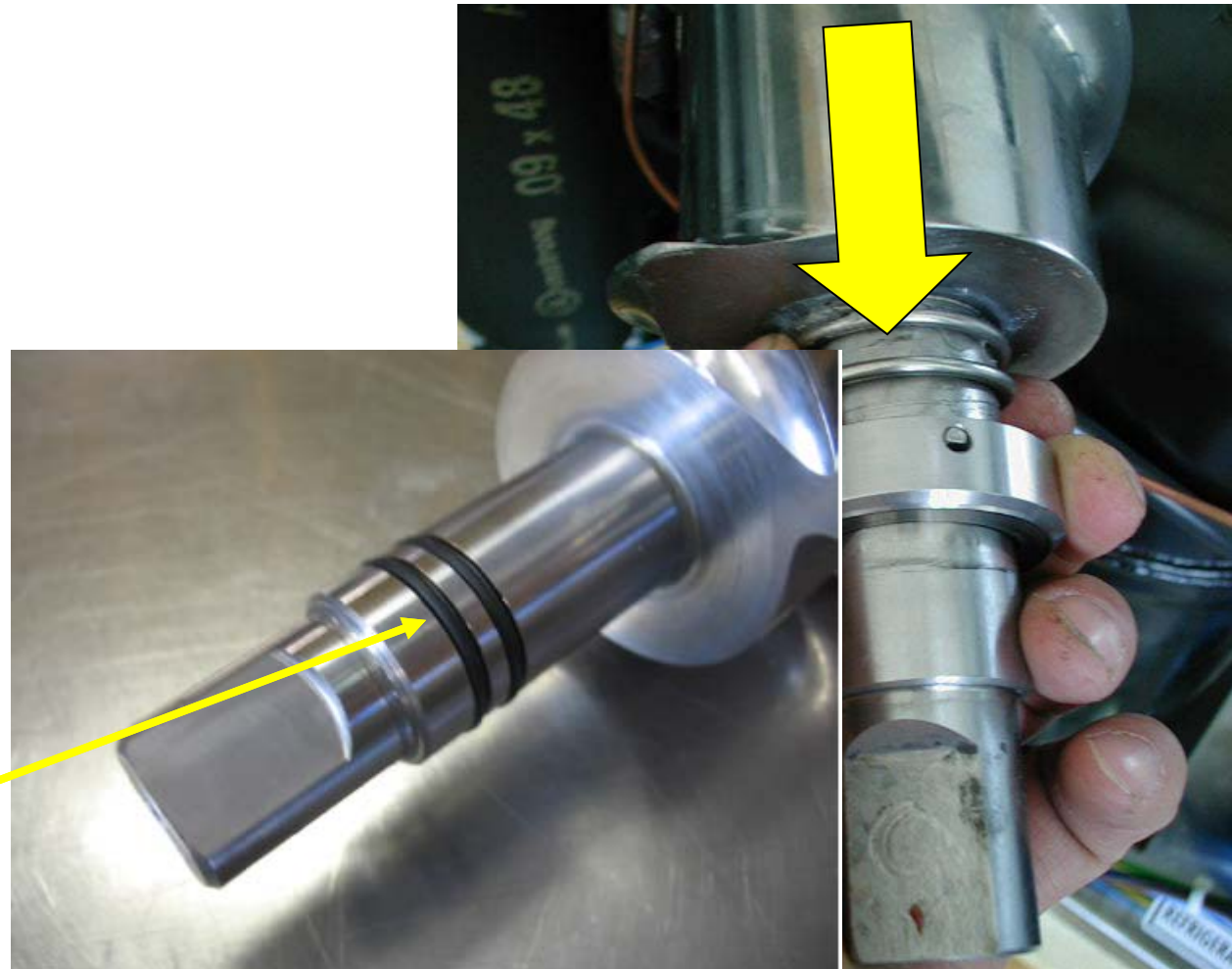
REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

..... as well as
the condition
of the O ring.



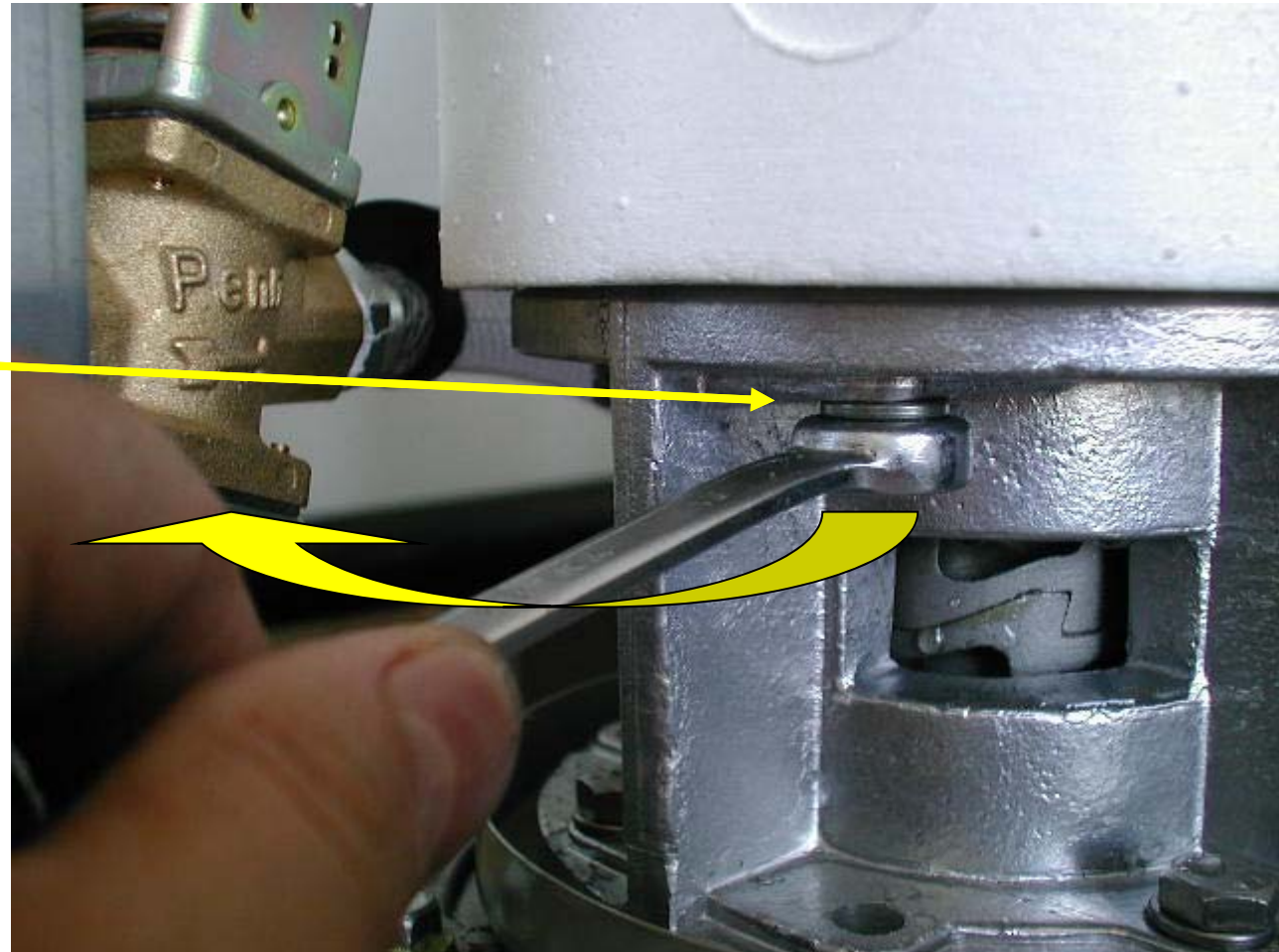
REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Slide off from the bottom of the auger the upper half of the water seal and check the condition of the two O-rings located on the auger shaft.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

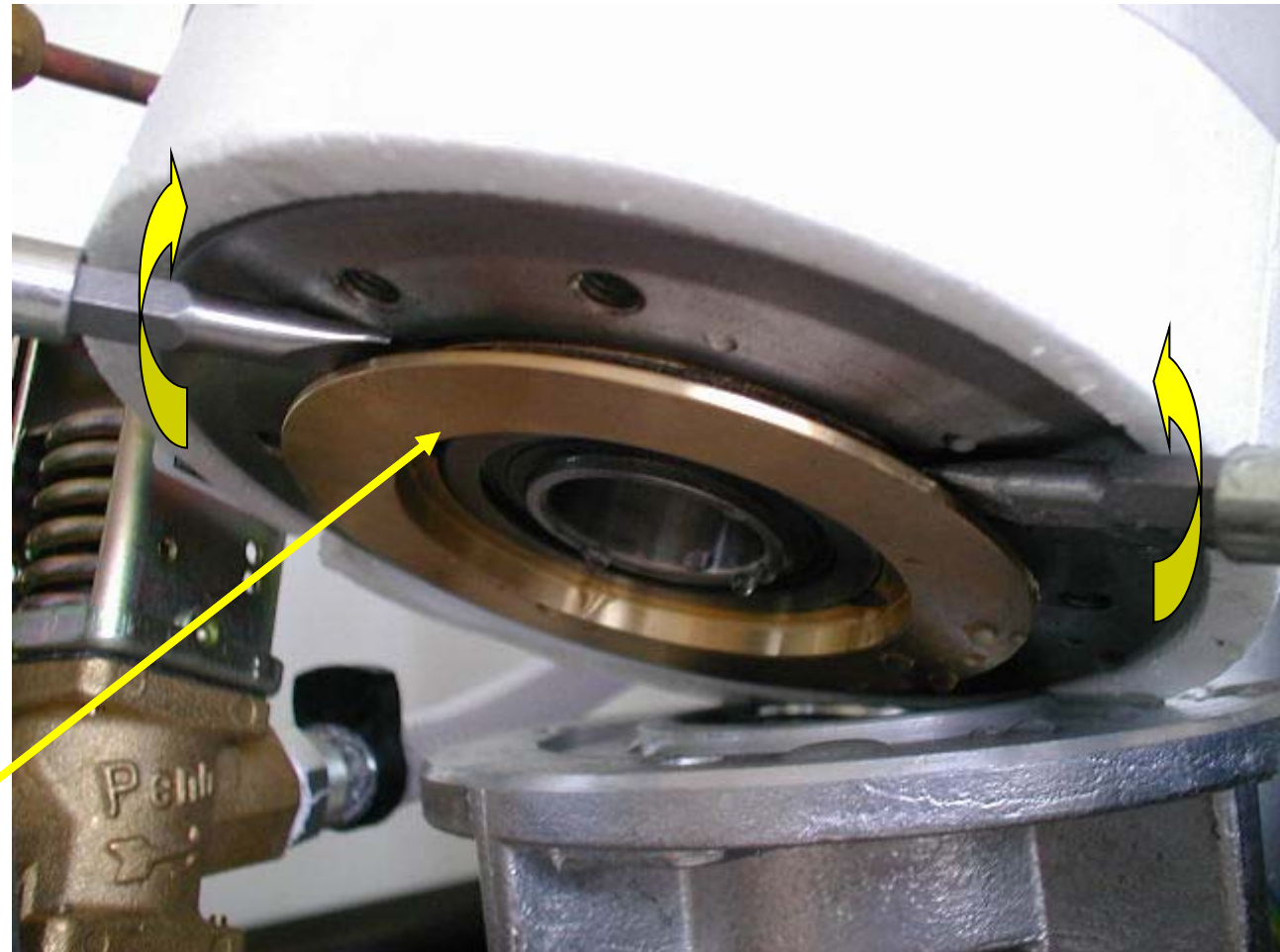
Unloose and
remove the
four bolts and
lock-washers
holding the
freezer
assembly to
the aluminum
adapter then
.....



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

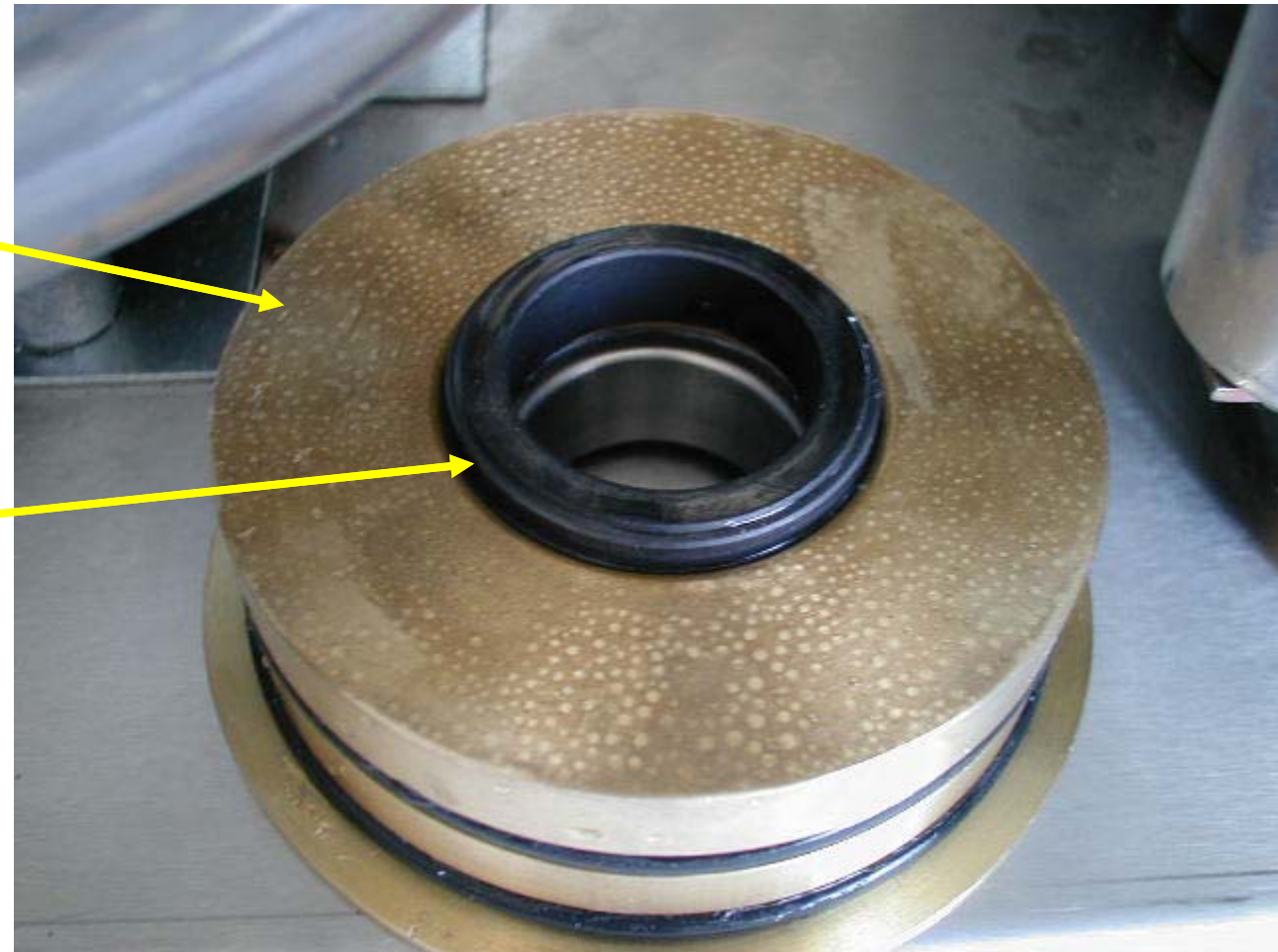
..... raise the freezer assembly off the adapter and move it out so to have enough room to work.

Using two flat screwdrivers remove.....



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

..... the bottom bearing and brass housing assembly with the bottom graphit ring of water seal.



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

It is good practice to replace the **water seal assembly, the two top and bottom bearings and the O rings** any time the auger is removed.

A **Kit is available** for this purpose containing a **can of waterproof special grease**.





Scotsman[®]
Ice Systems



END