

SERVICE ANALYSIS

If no ice is produced check

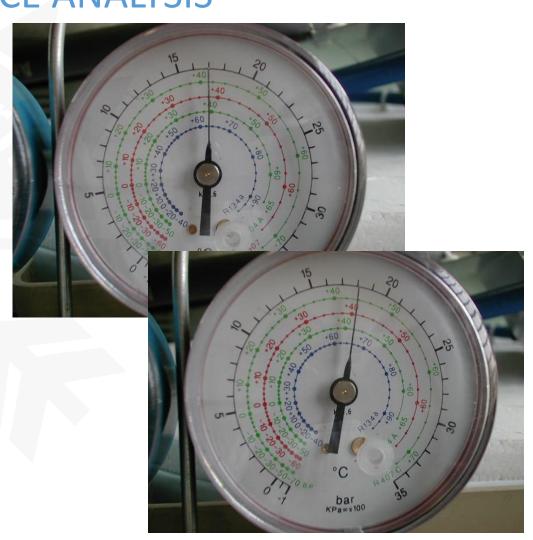
for:

• Refrigerant charge. High

side pressure must be

between 17÷18 bar

(240÷250 PSI)..... (R404A)



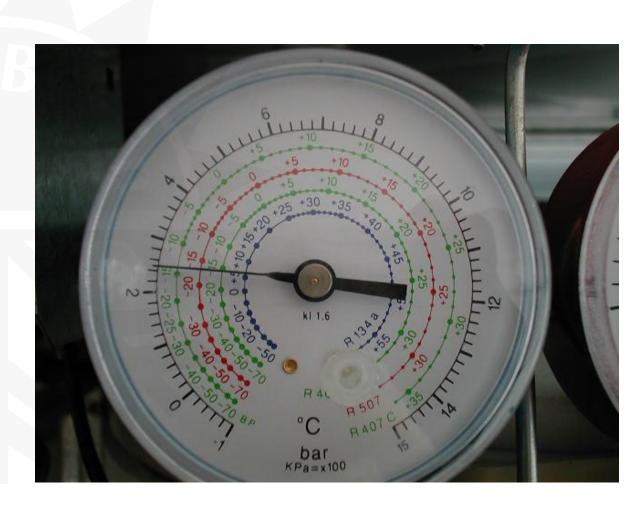


SERVICE ANALYSIS

.....while suction

pressure must be 2.5

bar (35 PSI) (R404A)





SERVICE ANALYSIS

If no ice is produced check for:

- Refrigerant charge
- Operation of Compressor





SERVICE ANALYSIS

If no ice is produced check for:

- Refrigerant charge
- Operation of Compressor
- Power out on spade connectors of the PC Board



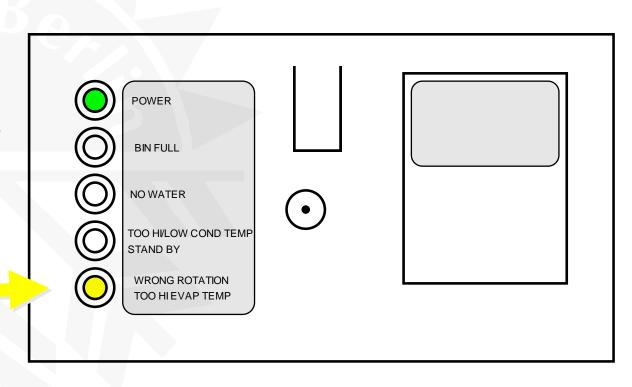


SERVICE ANALYSIS

NO ROTATION OF DRIVE MOTOR

Wrong rotation/ Too Hi Evap. Temp. YELLOW LED

ON STEADY





SERVICE ANALYSIS

If the drive motor doesn't turn check for:

 Power out on the contacts 2 and 3 of the PC Board





SERVICE ANALYSIS

If the drive motor doesn't turn check for:

- Power out on the contacts 2 and 3 of the PC Board
- Drive motor with open winding





SERVICE ANALYSIS

If the drive motor doesn't turn check for:

- Power out on the contacts 2 and 3 of the PC Board
- Drive motor with open winding
- Drive motor capacitor worn-out





SERVICE ANALYSIS

If the drive motor doesn't turn check for:

- Power out on the contacts 2
 and 3 of the PC Board
- Drive motor with open winding
- Drive motor capacitor worn-out
- Looked rotor

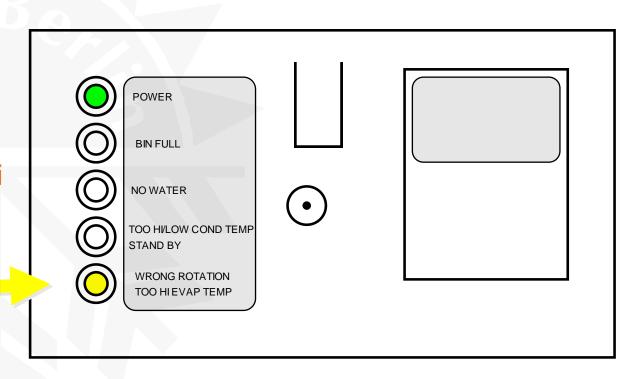


SERVICE ANALYSIS

SLOW ROTATION
OF DRIVE MOTOR
(<1200 rpm/min)

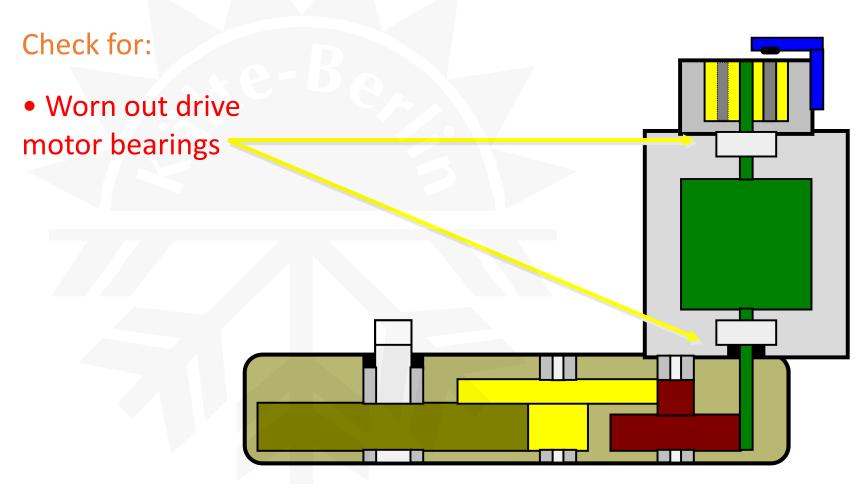
Wrong rotation/ Too Hi Evap. Temp. YELLOW LED

ON STEADY





SERVICE ANALYSIS



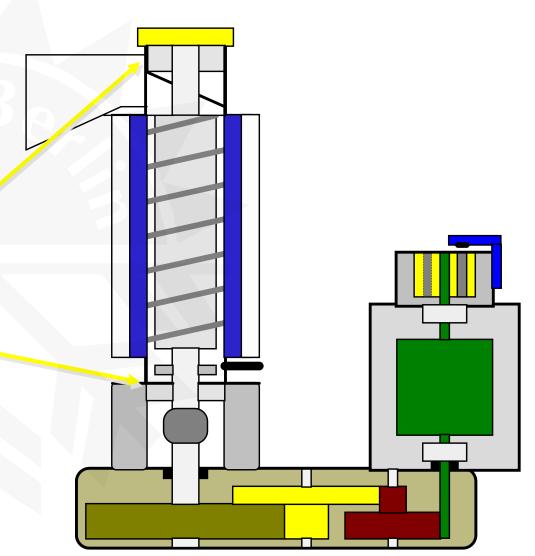


SPR – SPN SERIES SERVICE ANALYSIS

Check for:

Worn out drive motor bearings

Worn out freezer top or bottom bearings





SERVICE ANALYSIS





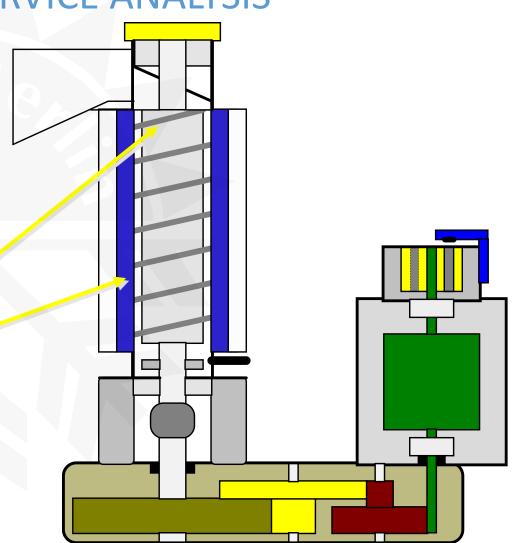
SERVICE ANALYSIS

Check for:

Worn out drive motor bearings

Worn out freezer top or bottom bearings

Worn out auger/freezer





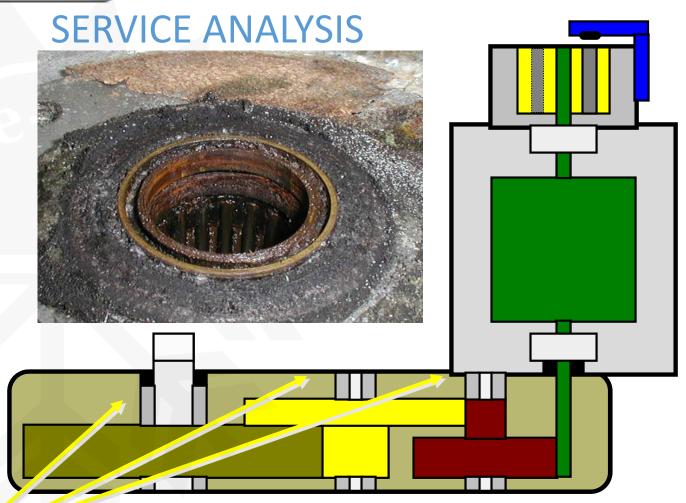
SERVICE ANALYSIS





Check for:

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



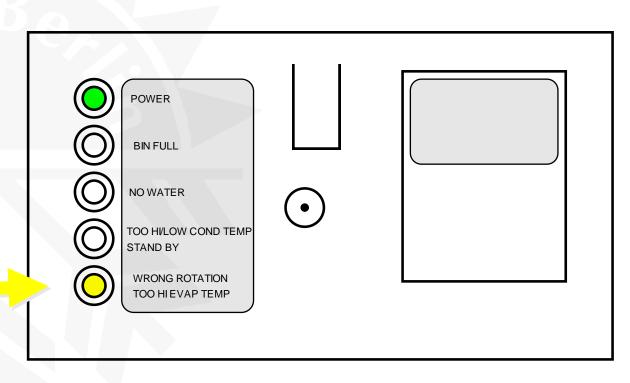


SERVICE ANALYSIS

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 (ONLY ON THE OLD VERSION)





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

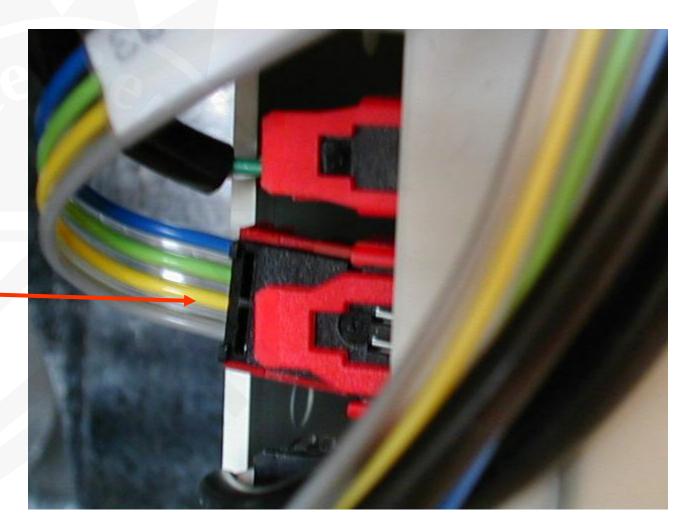




SERVICE ANALYSIS

Additional reasons for the tripping OFF at Rotation Error are:

Magnetic sensor unplugged

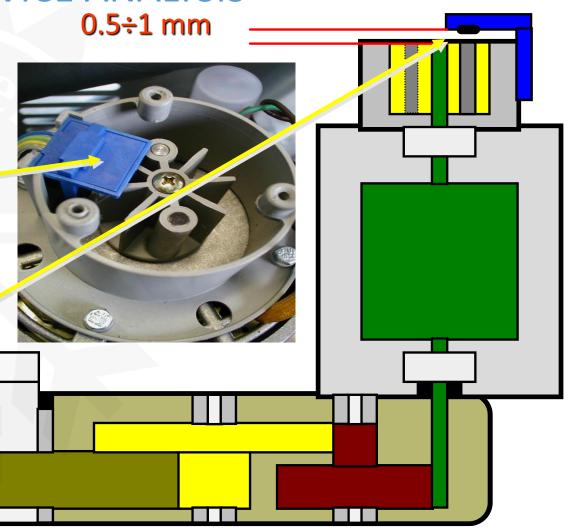




SERVICE ANALYSIS



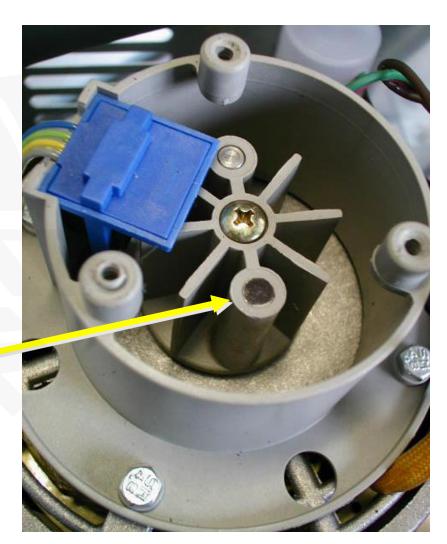
 Magnetic sensor too far from the rotating magnetic cylinder





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



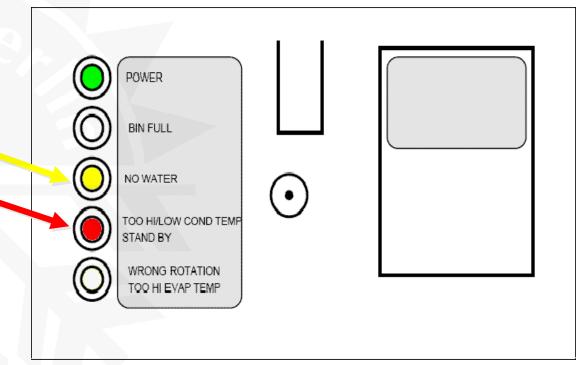
No Water YELLOW LED

4

Stand-by Red LED

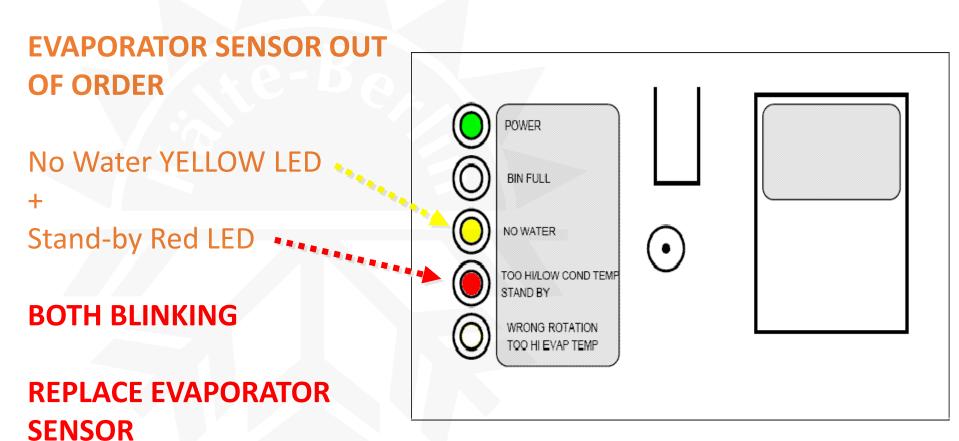
BOTH ON STEADY

REPLACE CONDENSER SENSOR





SERVICE ANALYSIS



SPR 80-120-200 SPN 125-255



REPLACEMENT OF AUGER, WATER SEAL AND BEARINGS

Remove first the

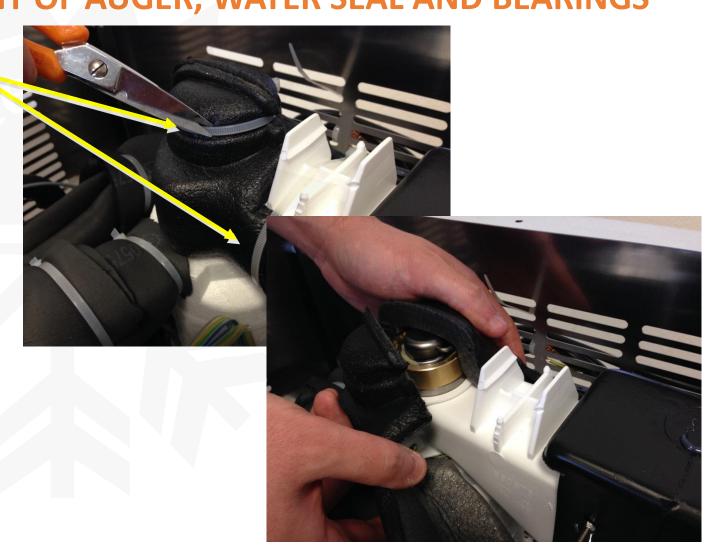
top panel and

then

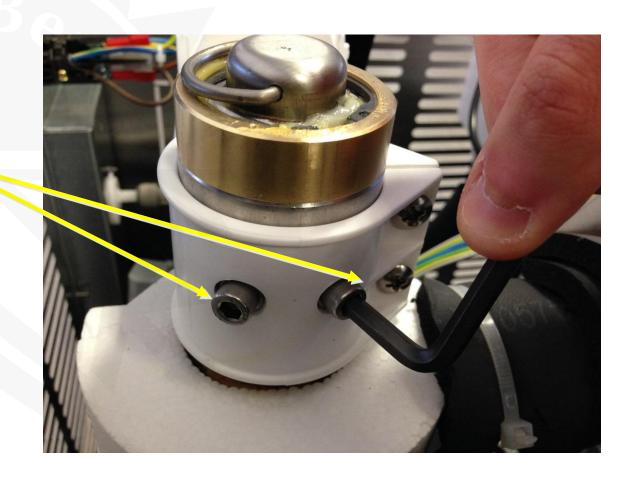


.....remove ice

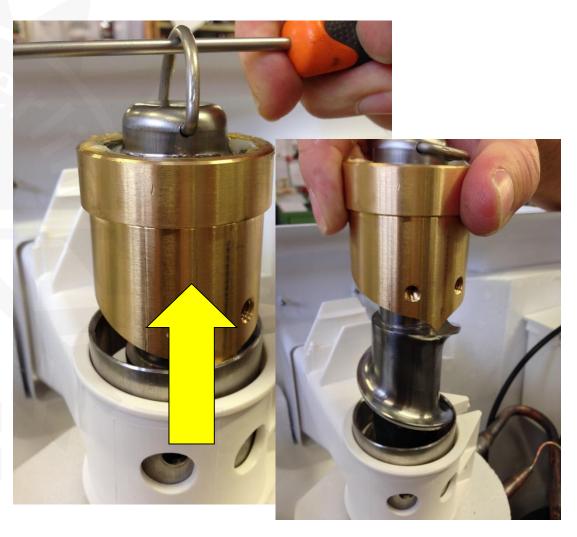
spout insulation.



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



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.



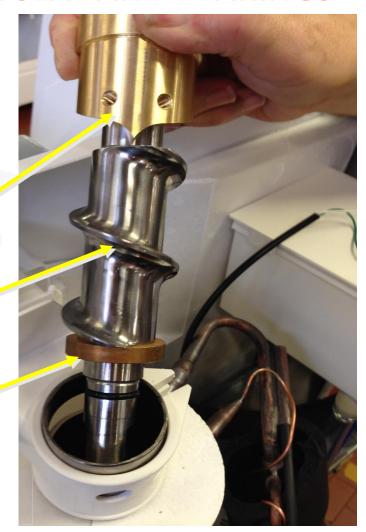
Parts pulled out from the

top of the

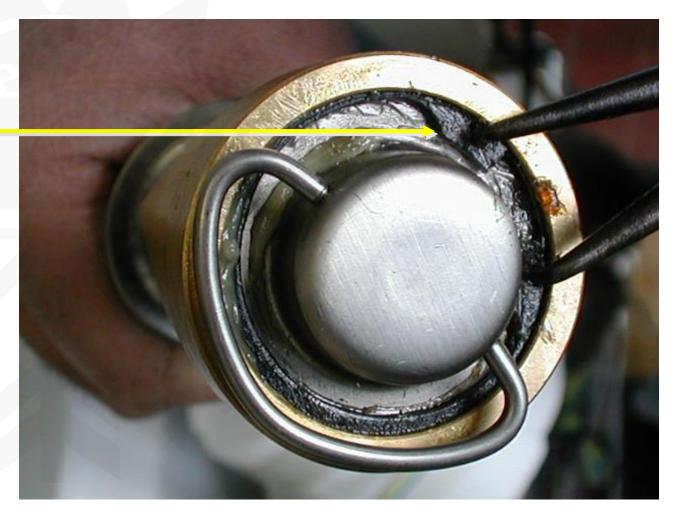
evaporator/worm tube

are:

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



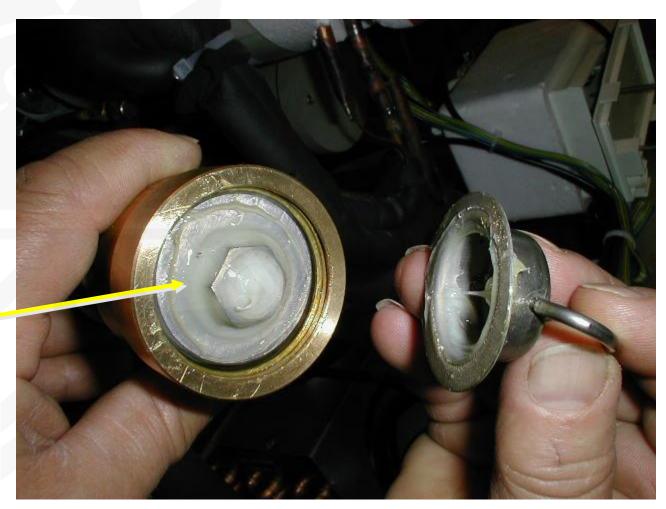
With a clip ring pliers remove the retaining ring and the cap from the ice breaker.



Unloose and

remove the

screw and.....



.....remove

the ice

breaker

assembly

from the

auger.



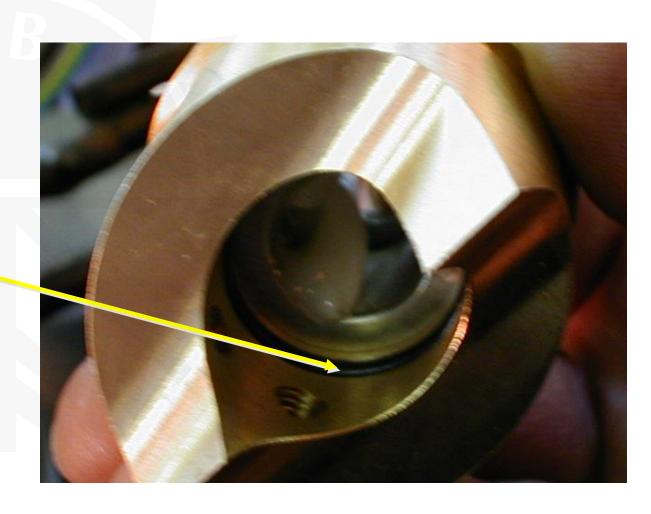
Clean away the old grease from the interior of the ice breaker and inspect the conditions of the top bearing



..... as well as

the condition

of the O ring.



..... And the

condition of

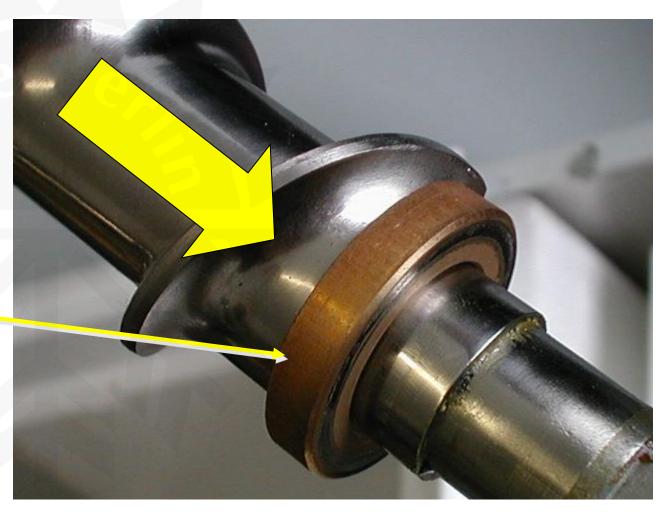
the Oring

located on the

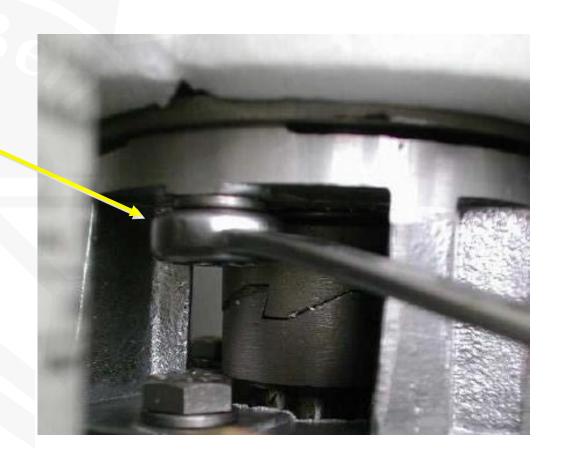
auger shaft.



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

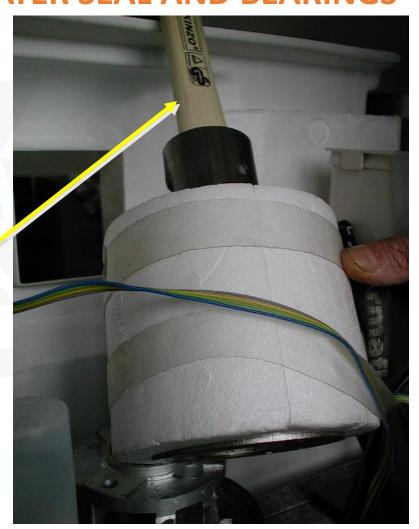


Unloose and remove the three bolts and lock-washers holding the freezer assembly to the aluminum adapter then



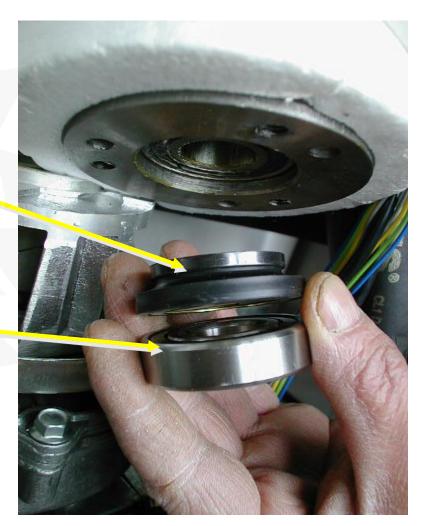
..... raise the freezer assembly off the adapter and move it out so to have enough room to work.

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



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

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



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.



SPN 405-605-1205

Remove first

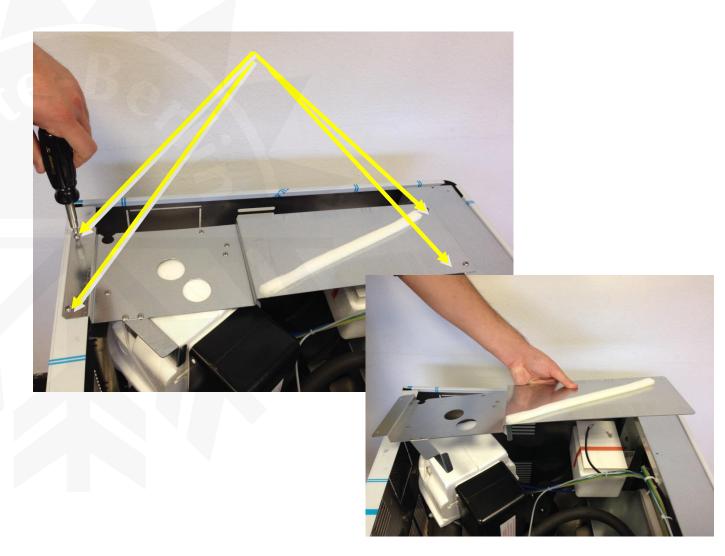
the front and

top panel and

then



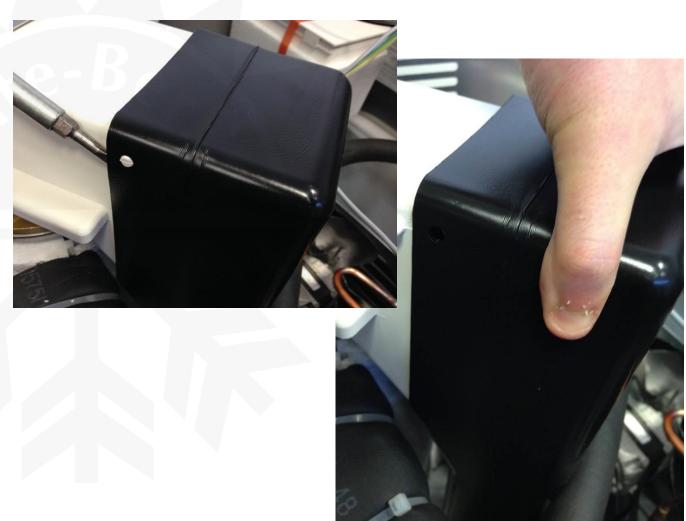
Unloose the four screws holding the metal bracket and remove it from the frame of the machine



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



Remove the ice chute from the ice spout





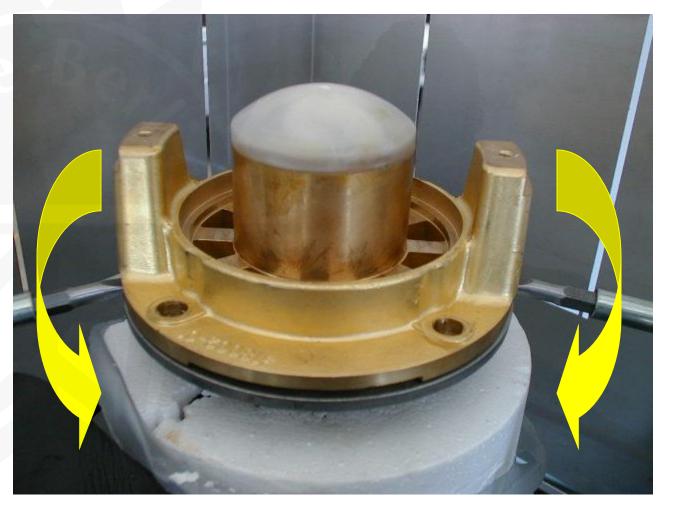
Remove the plastic ice spout....

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

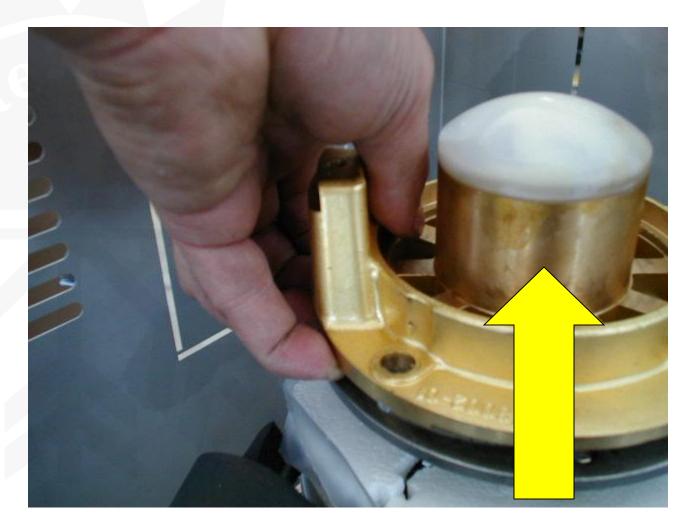
the freezer.



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

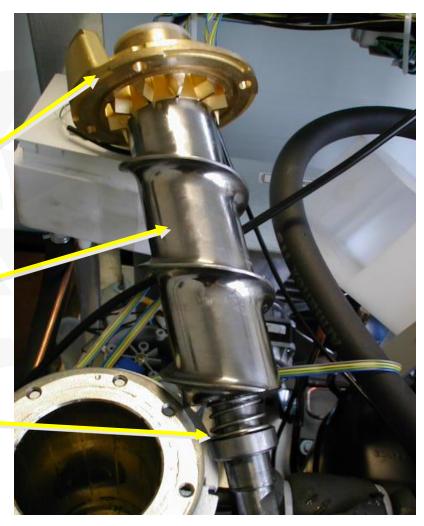


.... pull out the auger and icebreakerassembly.



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

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



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



Unloose and

remove the

screw and.....



.....remove

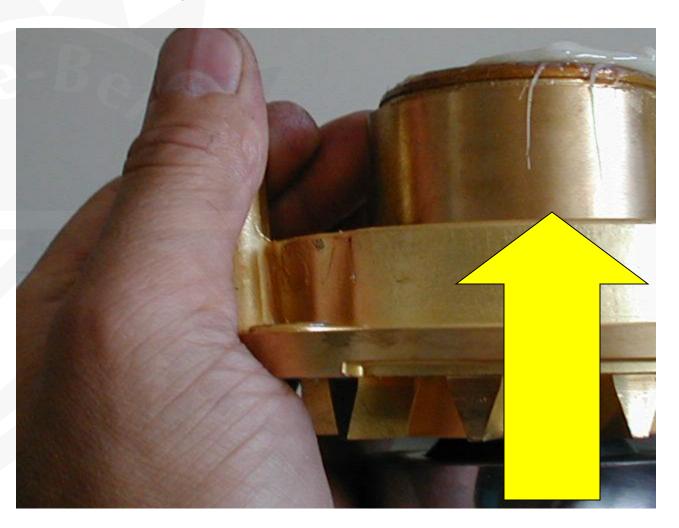
the ice

breaker

assembly

from the

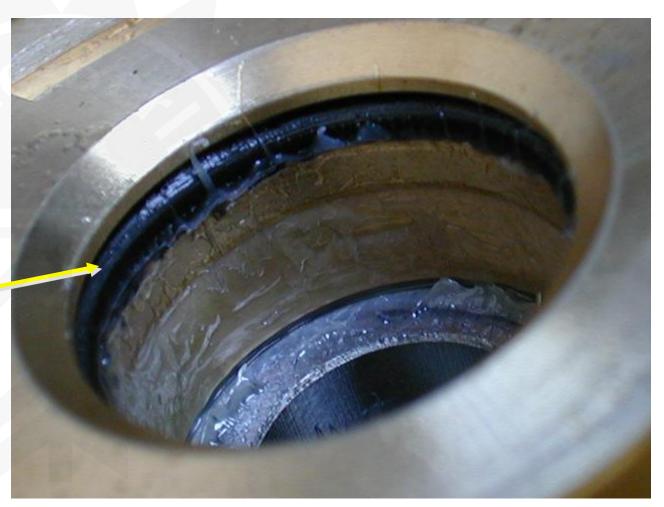
auger.



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



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

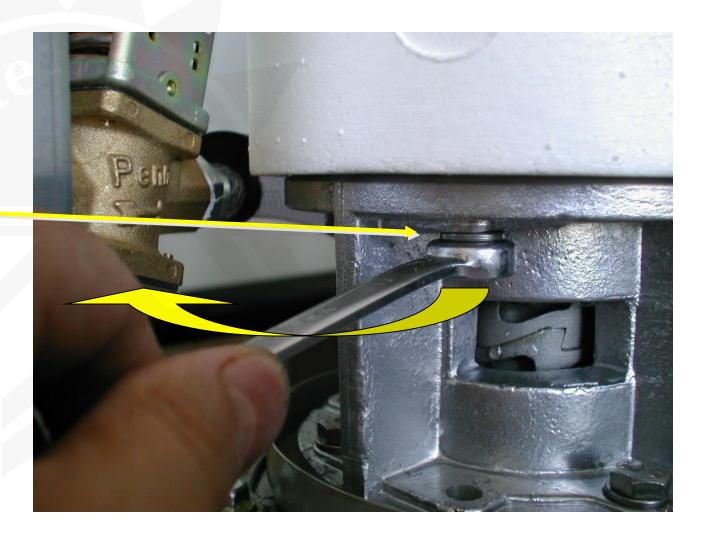


Slide off from the bottom of the auger the upper half of the water seal and check the condition of the two O-rings located on the auger shaft



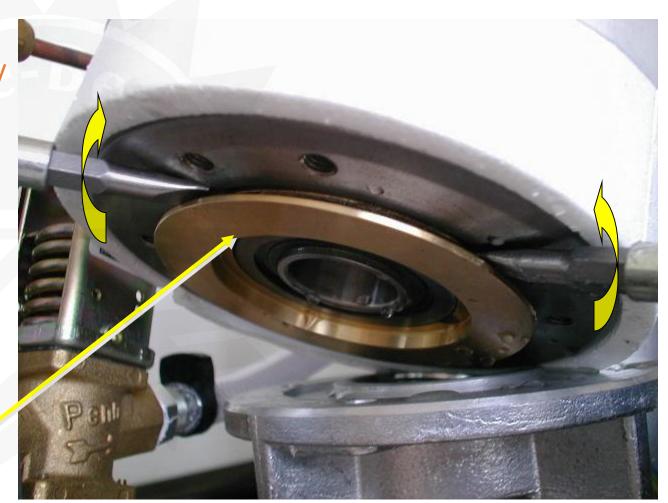
Unloose and remove the four bolts and lock-washers holding the freezer assembly to the aluminum adapter then

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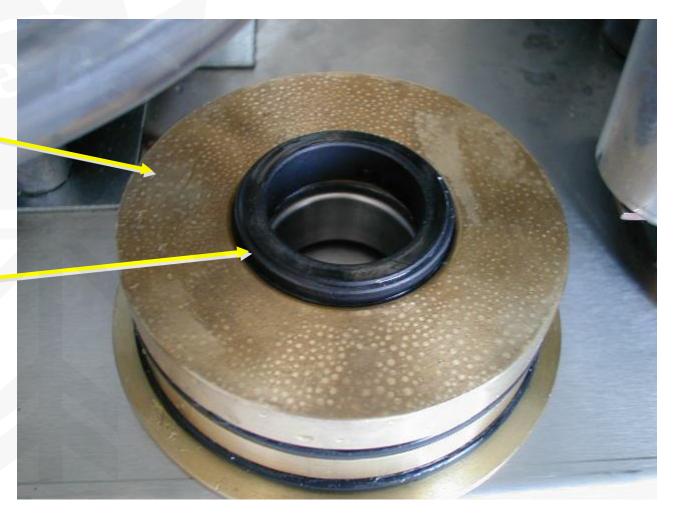


raise the freezer assembly off the adapter and move it out so to have enough room to work.

Using two flat screwdrivers remove....



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



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.

