

Taver

Gas Refrigerator

**INSTRUCTIONS BOOKLET
MOD. T171 - T242**



YOUR REFRIGERATOR

First of all we thank you for placing your trust in us and buying a **TOWER** refrigerator. We are pleased to be able to GUARANTEE that the correct performance of ALL REFRIGERATORS is tested for 7 hours in our factory. We can therefore assure you that this refrigerator works perfectly.

Remember that **TOWER** refrigerators are **special** and are completely different to motor refrigerators. They have the important advantage of being able to work with or without electricity (when requested), something that electric refrigerators working with a compressor are unable to do.

Their only power source is a small flame. Therefore, they are slower in producing cold. That is why every time the refrigerator is started up it is necessary to set the thermostat knob to the MAX position, and to keep the refrigerator **empty, with the doors closed** for 5 hours before using it.

Your special refrigerator:

- Is accurately made by hand using top quality materials.
- Is free from mechanical breakdowns (as it has no moving parts and no motor)
- Is absolutely noiseless.
- Does not have vibrations.
- Requires "special" treatment.

As the refrigerator is equipped with a **safety valve and an automatic thermostat**, it can be left running even when you are away from home for several days. It is enough to leave the thermostat at MED position. When using the refrigerator normally again, set to the desired temperature by turning the thermostat knob.

When the refrigerator is used correctly, its energy consumption is reduced. Thank you for using your refrigerator on an environmentally friendly basis.

Even when the refrigerator has a satisfactory performance, it is advised to carry out the Maintenance and Cleaning procedures regularly (depending on its use and location). It is not necessary to take anything apart and it can be done before starting it or when changing the gas bottle. If you take care of it, you'll have a life-long lasting refrigerator.

<p>IMPORTANT: IF THE REFRIGERATOR IS EQUIPPED WITH AN ELECTRIC KIT, NEVER TURN ON GAS AND ELECTRICITY AT THE SAME TIME.</p>
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INSTALLATION INSTRUCTIONS

The installation must be done keeping with the Legislation in force in each country (*).

The gas installation and its periodic revisions must be carried out by an Official Installer.

The minimum distance from the refrigerator to the walls of the room must be as follows:

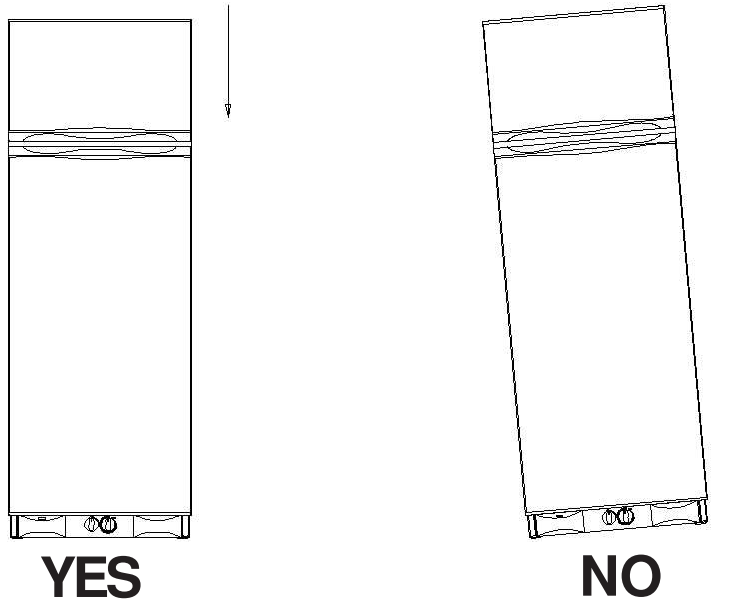
- Back wall: 30 cm
- Side wall: 5 cm
- Ceiling: 30 cm

The refrigerator must be placed in a PROPERLY VENTILATED place, and never in an enclosed place, in order to ensure the exit of gases and correct functioning of the appliance. DO NOT PLACE it in bedrooms.

The operating pressure must be:

- for Butane gas: 28 mbar
- for Propane gas: 37 mbar

Place the refrigerator on a **WELL LEVELLED** floor.



ON AN UNEVEN FLOOR THE REFRIGERATOR WILL NOT HAVE A GOOD PERFORMANCE

(For uneven floor, wedges are provided to help in levelling it).

INSTRUCTIONS FOR STARTING UP

Before connecting the refrigerator with a new gas bottle, it is advisable to cleanse the gas by starting it in another gas appliance such as a cooker, a water heater or a stove for about 2 minutes.

1 – Clean the inside of the refrigerator with bicarbonated water in order to eliminate any possible odours. Remove door and cabinet plastic films both from inside and outside.


2 – Connect the gas tube to the nozzle (D) with braces. **ENSURE THAT THERE IS NO GAS LEAKAGE** at all joints using a solution of soapy water.



3 – Insert the batteries provided inside the battery holder placed at the back side of the refrigerator.

4 – Place the refrigerator correctly LEVELLED (use the wedges if necessary).


5 – Open the valve on the gas bottle by lifting the lever on the regulator valve or open the Mains tap.

6 – Set the thermostat knob (C) to the MAX position.

7 – Press the control knob (B) right down to position  for 20 seconds (approx.) in order to allow the air in the tubes to be expelled and the gas reach to the burner.

8 – While keeping the control button (B) pressed down, turn it 90 degrees to  and turn it once again to  or until you hear it clicks. Do not release the control button (B) until 15 seconds after lighting.

9 – If the burner situated at the back of the refrigerator is not lit, repeat steps 6 and 7.

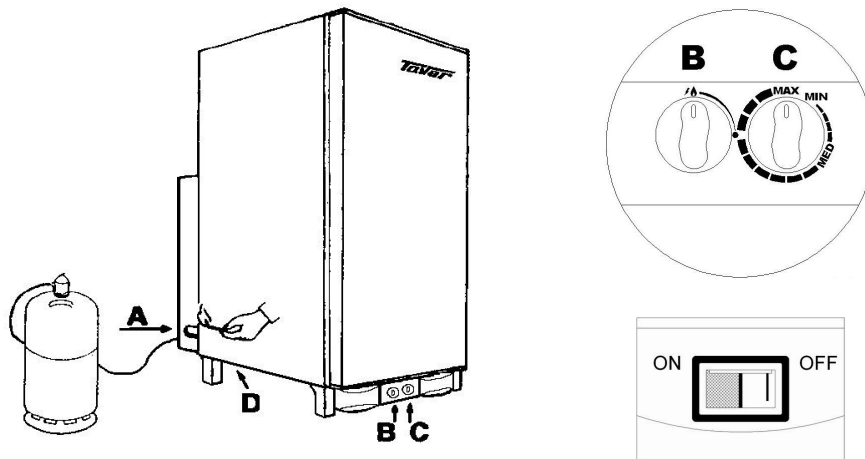
The burner can also be lit by holding a lit match through the opening in the protective shell, whilst pressing down the control knob (B) in the  position.

When the flame is lit, the red line of the flame indicator is in the ON position (green area). If there is no flame the red line of the flame indicator will remain in the OFF position (white area).

10 – Once lit, do not open the doors or place food inside the refrigerator for 5 hours, after which it may be used normally.

11 – Set the temperature as desired using the thermostat (C).

12 – In order to de-frost the refrigerator, set the thermostat (C) to MIN position. If necessary, cut off the gas supply by turning the control knob (B) to ●. Defreeze the refrigerator whenever the evaporator fins located inside the refrigerator are icy.



WARNING!

A – ENSURE THAT THERE ARE NO GAS ESCAPES BY CHECKING THE CONNECTIONS WITH A SOLUTION OF SOAPY WATER.

B – INSTALL THE REFRIGERATOR IN A CORRECTLY VENTILATED PLACE.

C – ALWAYS KEEP CLEAN THE BACK OF THE REFRIGERATOR (WHERE THE COOLING UNIT IS PLACED). IT IS ESSENTIAL FOR THE CORRECT PERFORMANCE OF THE REFRIGERATOR.

Heat nominal consumption:

- Model T171: 0,274 KW
- Model T242: 0,372 KW

INSTRUCTIONS FOR MAINTENANCE AND CLEANING

In order to have the best cooling performance from your refrigerator it is essential to regularly (at least once a year, depending on its use and location) carry out the Maintenance and Cleaning Instructions, formed by the following:

- 1 – Cleaning the tubes of the cooling unit
- 2 – Cleaning the chimney
- 3 – Cleaning the burner
- 4 – Cleaning the gas pipes using pressurised air

In order to carry out these maintenance instructions it is not necessary to dismantle any piece of the refrigerator. They are very simple and the only tools that will be required are: a paintbrush, a hand pump and a long brush.

REMEMBER!

A – ENSURE THAT THERE ARE NO GAS LEAKS BY CHECKING THE CONNECTIONS WITH A SOLUTION OF SOAPY WATER.

B – INSTALL THE REFRIGERATOR IN A CORRECTLY VENTILATED PLACE.

C – PLACE THE REFRIGERATOR ON A LEVELLED FLOOR.

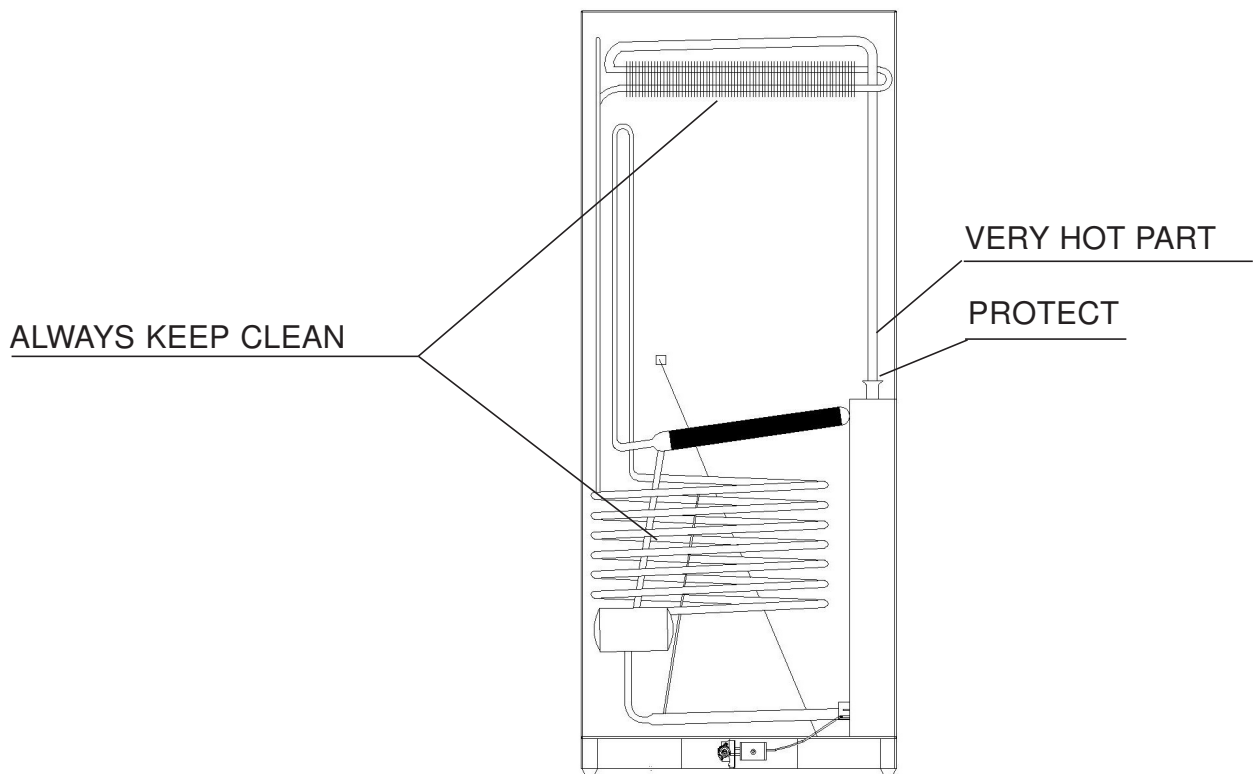
TAKE CARE OF YOUR REFRIGERATOR **TaVer**
AND YOU WILL HAVE A LIFE LONG GOOD PERFORMANCE.

CLEANING THE TUBES OF THE COOLING UNIT

The tubing which comprises the cooling unit is located at the back of the appliance and must always be kept clean to avoid the accumulation of dust and dirt. This way the performance of the refrigerator will be better and less energy consuming.

The cleaning can be done using a brush and a damp cloth. Remember that the cooling unit is hot and it is therefore advisable to turn off the refrigerator and wait until it cools for approximately 30 minutes before cleaning.

In order to avoid soiling the burner when brushing dust from the cooling unit, cover the chimney top opening with a cloth.



CLEANING THE CHIMNEY

1. Protect the head of the burner with a piece of paper or cardboard as in the diagram.
2. Carefully introduce a chimney sweeping brush (like those used for cleaning guns and rifles) in the pinched hole (3) until the end of the chimney is reached, without hitting the card (8). Repeat the procedure until carbon stops falling on the card.
3. Remove the brush and lightly hit the pinched tube (3) in order to knock off all the residues onto the card.
4. Remove the card (8) very carefully in order not to soil the burner.
5. Blow through the lateral opening of the shell.

1.- Handle-ring of the chimney sweeping brush.

2.- Correcting tube, which extends up to the condenser.

3.- Pinched hole (end of the chimney).

4.- Chimney pipe.

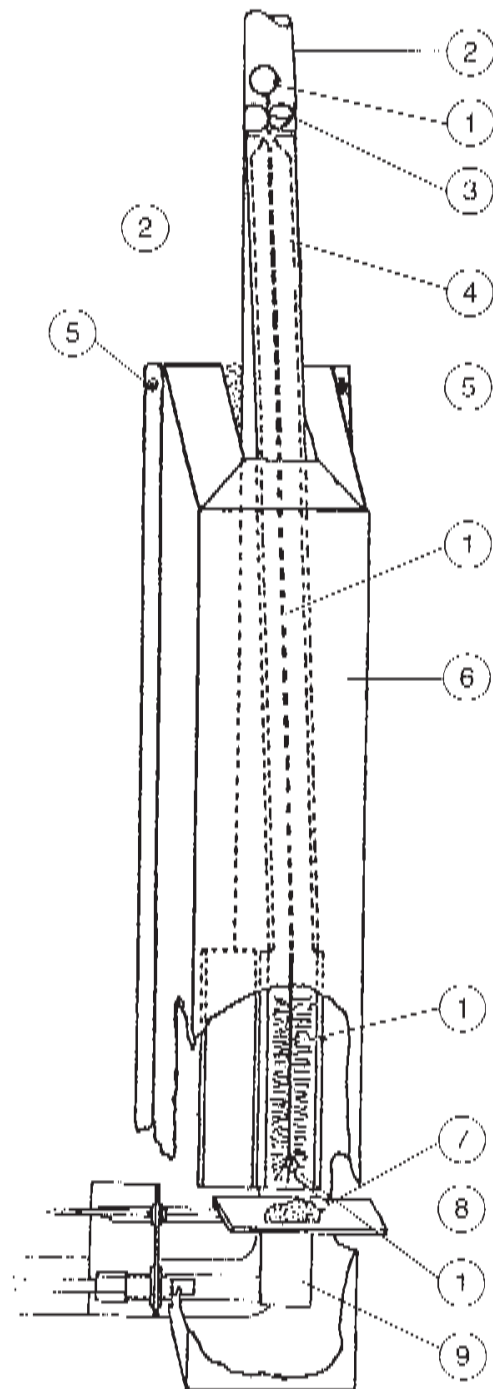
5.- Screws for protective shell.

6.- Protecting insulating shell of the chimney.

7.- Soot falling from the chimney. Do not soil the burner.


8.- Card placed to protect the burner from the soot and possible knock with the end of the brush.

9.- Burner head

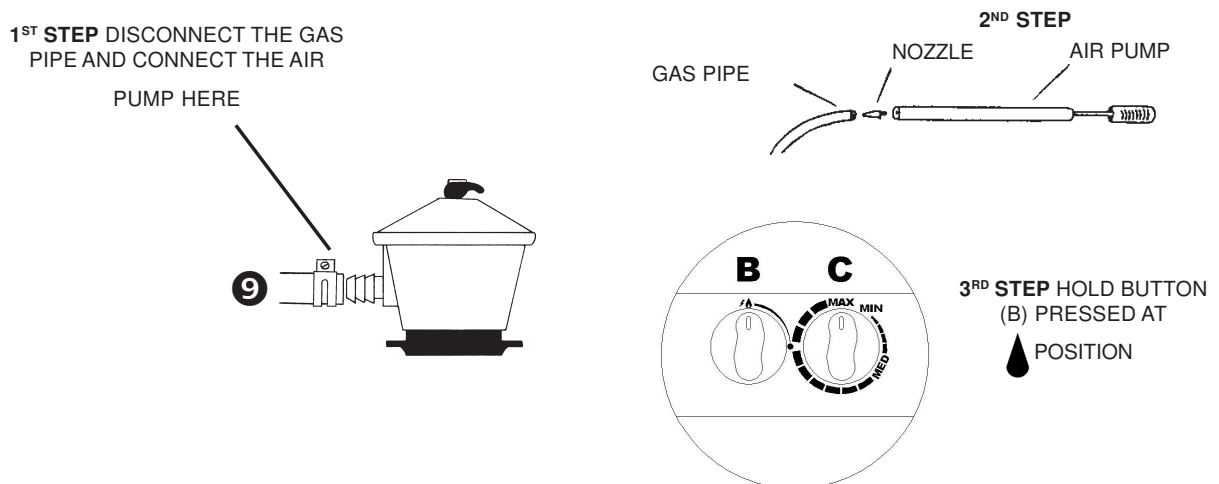


CLEANING THE GAS PIPES USING PRESSURISED AIR

The pipes through which the gas passes, from the nozzle to the burner, may become dirty and with time obstruct as a result of impurities in the gas, humidity, dust, etc. In order to solve this it is sufficient to force clean air through these pipes at maximum pressure in the following way:

- 1.- Close the gas mains tap on the regulating valve.
- 2.- Disconnect the gas pipe (from the regulating valve) on the gas bottle.
- 3.- Connect the pipe to the air pump, making sure that there is no leakage. Press the pump making air go through the entire circuit being expelled via the burner. A bicycle or motorcycle pump is sufficient.
- 4.- Set the thermostat knob (C) to the MAX position and hold control knob (B) in position  (as if to start the refrigerator), while another person pumps air in every 2 seconds, waiting until the pressurised air is heard as it is expelled through the burner, during 30 seconds.

Once this procedure has been carried out, connect the refrigerator, CHECKING THAT THERE IS NO GAS LEAKAGE.

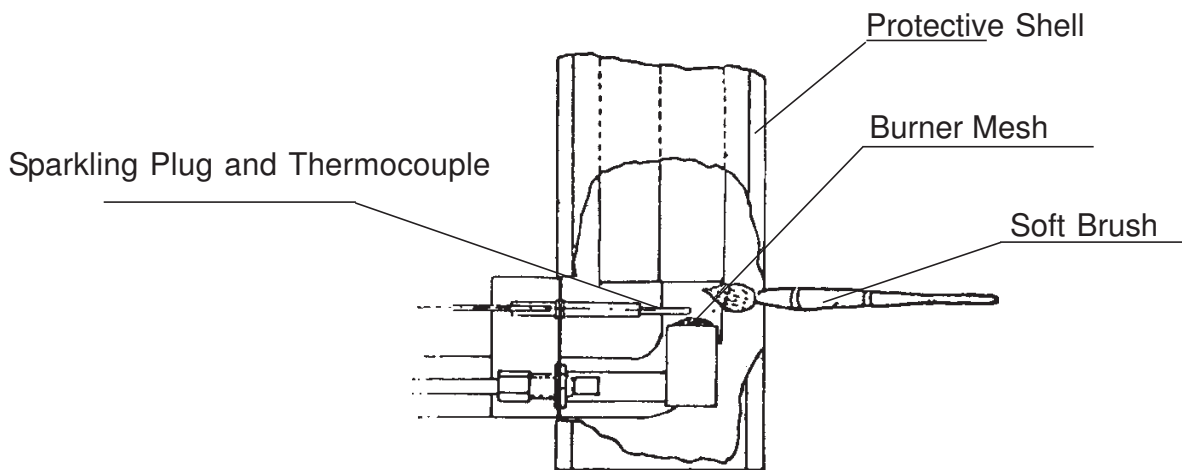


CLEANING THE BURNER

The burner is a basic part of the gas refrigerator as it supplies the calories it requires to work. It is therefore essential that the burner as well as the thermocouple and the sparking plug tubes located over the burner mesh are perfectly clean.

In order to clean the burner it is not necessary to dismantle anything. Introduce the paintbrush supplied with the refrigerator (or any other as long as it is soft and clean) into the lateral opening in the protective shell.

Clean the burner head and the ends of the thermocouple and the sparking plug (which are placed over the burner mesh) until any accumulated soot and dirt has been removed).



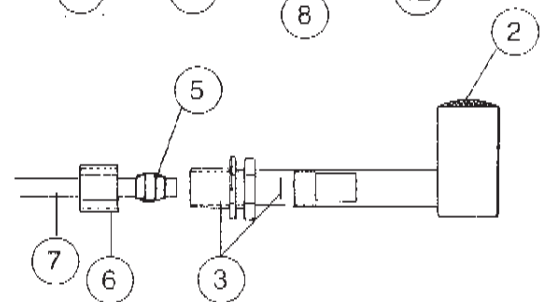
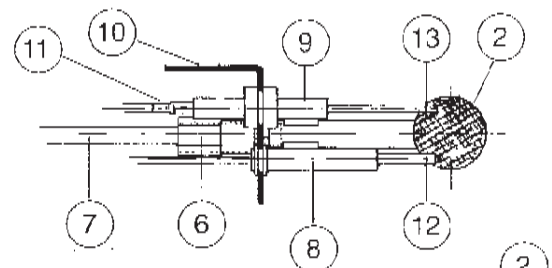
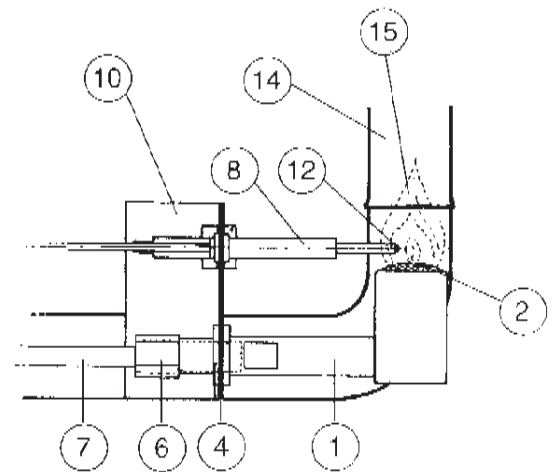
IMPORTANT: Do not move the ends of the thermocouple and the sparking plug as they should be placed very close to the burner mesh. The thermocouple can not keep the flame burning unless in direct contact to it and the sparking plug starts the flame with the lighting spark.

It is normal to see two “red points” when the flame is alight. These two “red points” are the ends of the thermocouple and the sparking plug which become incandescent and red with in contact with the flame.

CHANGING THE BURNER

In the case of dirt obstructing the tiny burner nozzle, or if the burner is in a much deteriorated condition, it is a good idea to substitute it. To do this, the following steps should be performed:

- 1.- Close the gas valve.
 - 2.- Remove the metal shell by undoing the screws carefully enough not to move the glass fibre insulation.
 - 3.- Unscrew the nuts (4) and (6) in order to remove the burner.
 - 4.- Blow pressurised air through all of the gas piping, as indicated in the cleaning instructions.
 - 5.- Install the new burner (1).
 - 6.- Make sure that there is no gas leakage at the nut (6) using a solution of soapy water.
 - 7.- Check that the head of the burner is placed right under the chimney.
 - 8.- Place the refrigerator WELL LEVELLED using the wedges if necessary.
 - 9.- Replace the protective shell, taking care that the glass fibre is well placed.
 - 10.- Start the refrigerator using the thermostat knob set at the MAX position.
- After 5 hours it can be used again.



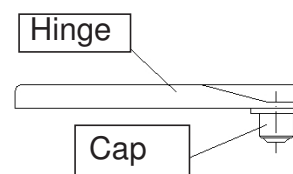
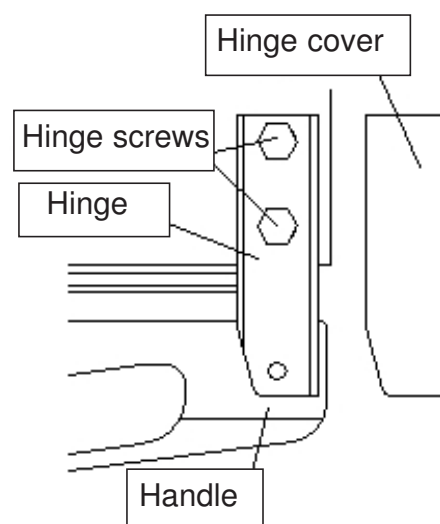
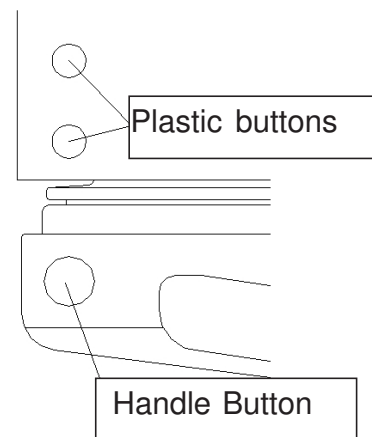
- 1.- Burner case.
- 2.- Burner mesh.
- 3.- Gas nozzle.
- 4.- Burner nut.
- 5.- Bicone.
- 6.- Gas pipe nut (check there is no gas leakage).
- 7.- Gas tubing.
- 8.- Thermocouple case.
- 9.- Sparking plug (Electrode).
- 10.- Burner set support.
- 11.- Sparking tube cable.
- 12.- Thermocouple end (always touching the middle of the flame).
- 13.- End of the sparking plug.
- 14.- Chimney.

IMPORTANT: THIS PROCEDURE SHOULD BE CARRIED OUT BY AN AUTHORISED GAS INSTALLER.

CHANGING THE DOOR OPENING OF THE REFRIGERATOR MODEL T171 FROM RIGHT TO LEFT

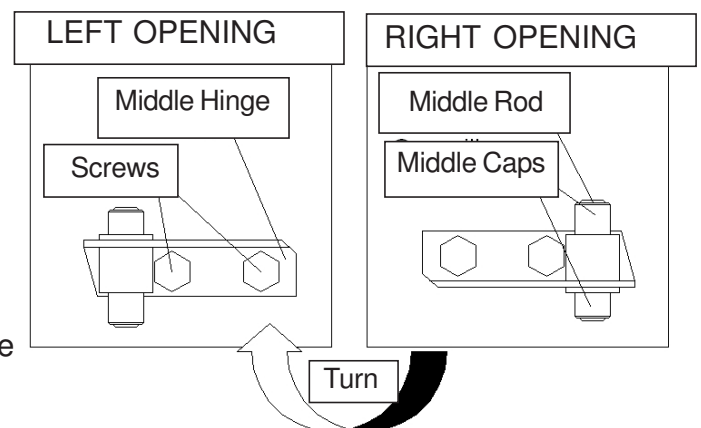
It is advisable to use a fix spanner of 10 mm.

- 1 – Remove plastic cover and plastic buttons of hinge and handle.
- 2 – Carefully lay the refrigerator on the floor leaving the door upside.
- 3 – Unscrew the top and bottom right hinges.
- 4 – Remove top and bottom hinges.
- 5 – Remove upper and bottom caps from right side of the handle and place them on the left side.
- 6 – Fit the bottom hinge on the left side of the door screwing only slightly.
- 7 – Proceed with top hinge as with bottom: fit top hinge on the left side of the door by screwing slightly
- 8 – Fit door into right position for a correct opening and screw completely upper and bottom hinges.
- 9 – Carefully set the refrigerator upright.
- 10 – Replace hinge cover and handle plastic caps.



CHANGING THE DOOR OPENING OF THE REFRIGERATOR MODEL T242 FROM RIGHT TO LEFT

- 1 – Remove plastic cover and plastic buttons of hinge and handle.
- 2 – Carefully lay the refrigerator on the floor leaving the doors upside.
- 3 – Unscrew the top right hinge, remove hinge and freezer door.
- 4 – Remove plastic rod and the two cartridges.
- 5 – Pull up the bigger door.
- 6 – Undo the two screws of middle and bottom right hinges.
- 7 – Remove upper and bottom caps from right side of the handles and place them on the left side.
- 8 – Fit the bottom hinge on the left side of the door screwing only slightly.



- 9 – Fit the middle hinge with the two screws reversing their positions. See guiding picture.
- 10 – Replace bigger door fitting the bottom hinge and then place the intermediate caps next to the rod.
- 11 – Replace freezer door. Top hinge should have the upper caps on the left side. Fit the middle rod in the door and screw slightly top hinge.
- 12 – Fit doors into right position for a correct opening and screw completely upper and bottom hinges.
- 13 – Carefully set the refrigerator upright.
- 14 – Replace hinge cover and handle plastic caps.

USER'S GUIDE

SYMPTON	CAUSE	SOLUTION
The refrigerator does not light	The gas bottle has air inside	Bleed the butane/propane gas bottle, by consuming the first grams in another gas appliance.
	The sparking plug electrode has been displaced	Place the electrode at 2 mm. from the burner mesh
	The sparking plug cable is disconnected	Connect the cable by pressing firmly together and twisting.
	The burner is obstructed by dirt dragged there by the gas.	Clean the burner.
The flame goes out when the lighting button is released	The thermocouple has been displaced	Move the thermocouple tube to about 3 mm over the burner mesh, so that the end is always in contact with the flame.
Ice is formed on the inside fins of the evaporator	The doors do not close properly	Check that the doors close properly both at the top and bottom. Close doors well and gently.
	Liquids are stored without covering	Store liquids in covered containers.
	The refrigerator has not been defrosted for a long time	Defrost as indicated in the instructions for Starting Up
The refrigerator does not produce enough cold (after following the cleaning instructions)	The pressure reducer on the bottle does not supply the right gas pressure	Change the pressure reducer.
	The refrigerator is not well levelled	Place the refrigerator well levelled.
	There is no ventilation at the back of the refrigerator	Separate the back of the refrigerator from the wall in order to enable air to circulate.
	The glass fibre is not correctly placed after been taken apart	Wrap the tubes entirely in the glass fibre and make sure it is properly supported by the metal shell.
	Thermostat knob set at MIN-MED position	Set the thermostat knob to MAX position.
	The burner does not supply the necessary calories	Check the tube next to chimney is hot enough to evaporate a drop of water placed about 5 cm above the chimney outlet. Carry out cleaning and maintenance procedures

SYMPTON	CAUSE	SOLUTION
The refrigerator releases burning smell	The burner is dirty	Clean the burner (see CLEANING THE BURNER).
	The ends of the thermocouple and sparking plug are dirty	Clean them with a soft, clean brush, making sure they are not displaced.
	The chimney is dirty	Clean the chimney with a long narrow brush (see CLEANING THE CHIMNEY)
The cabinet is not cold enough	The doors are opened frequently or when opened, they are left open for a long time.	Use the refrigerator wisely opening the doors as little as possible.
Inside light does not turn on	Exhausted batteries	Replace the batteries by new ones.
	Light Bulb is fused	Replace light bulb by a new one.



99AR180 (mod. T171)
99AR181 (mod. T242)

For further information, please, contact us.

CUSTOMER SERVICE:

Tel. 00 34 93 313 2754 (or your local dealer)

Fax 00 34 93 313 66 00

www.taver.es

sat-postventa@taver.es