

# **Monogram Refrigerator Technician Manual**

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## **1988 Through 1991 Models Refrigeration Units**

**BCS42C**

**BCS42EK**

**BCS42EL**

## **Cabinet Assemblies**

**BIS42C**

**BISB/W42EK**

**BISB/W42EL**

## **One Piece Models**

**ZIS42C**

**ZISB/W42E**



***Monogram.***



# MONOGRAM REFRIGERATORS

1988 THRU 1991 MODELS

## GENERAL DESCRIPTION

The Monogram Refrigerator is a side-by-side configuration with 25.7 cu.ft. of storage space for non-dispenser models and 25.4 cu.ft. for dispenser models. All models are designed to accept custom panels on the doors to blend with the kitchen cabinets or decor of the kitchen. Since the Monogram Refrigerator is truly a built-in product, the service technician should be familiar with the installation requirements.

## Early Production

Early production of the Monogram Refrigerator was shipped from the factory in two separate cartons. One carton contained the refrigeration unit and the other contained the cabinet assembly. This was to facilitate delivery through doorways and elevators to consumer's kitchens. (Later study proved that less problems are encountered with the models assembled in the factory and shipped as one piece units.)

Because the product was shipped in two pieces, the cabinet and the refrigeration unit had separate model and serial numbers, and separate Mini-Manuals. The Mini-Manual for the refrigeration unit is located behind the top grille, at the left side and taped to the cooling unit housing. The Mini-Manual for the cabinet is located behind the top grille and taped to the top of the cabinet, next to the right guide rail.

Models numbers of the two piece design are:

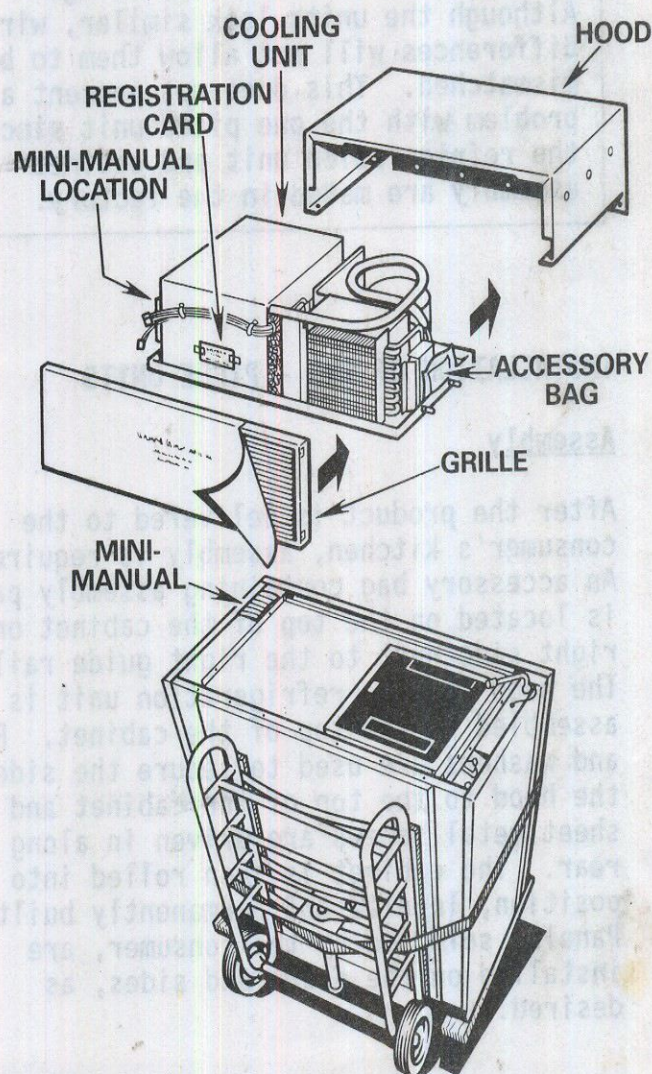
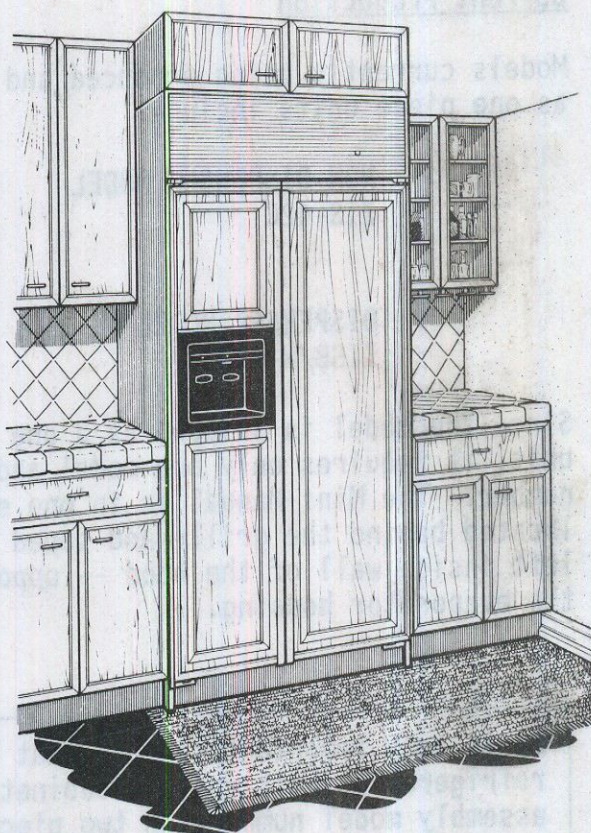
### NON-DISPENSER MODELS

BIS 42CK - CABINET ASSEMBLY  
BCS 42CK - REFRIGERATION UNIT

### DISPENSER MODELS W/ELECTRONICS BLACK OR WHITE RECESS

BISB/W42EK - CABINET ASSEMBLY  
BCS 42EK - REFRIGERATION UNIT

BISB/W42EL - CABINET ASSEMBLY  
BCS 42EL - REFRIGERATION UNIT





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## Current Production

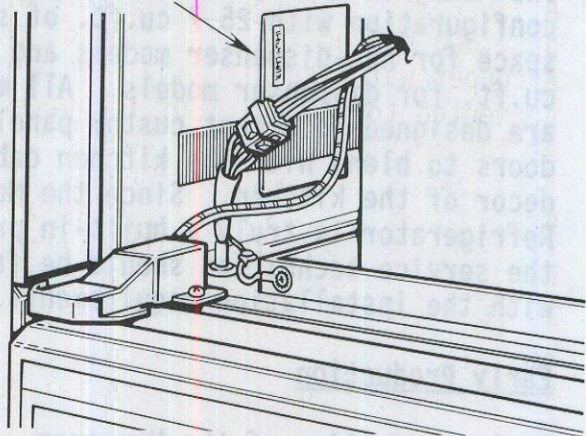
Models currently being produced and shipped as one piece units include:

**NON-DISPENSER MODEL**  
ZIS-42C

**DISPENSER MODEL**  
ZISB/W-42E

Since the model is shipped as a one piece unit, it requires only one model and serial number. The Mini-Manual is in one envelope located behind the grille and taped to the left inside wall of the hood -- opposite the evaporator housing.

MINI-MANUAL

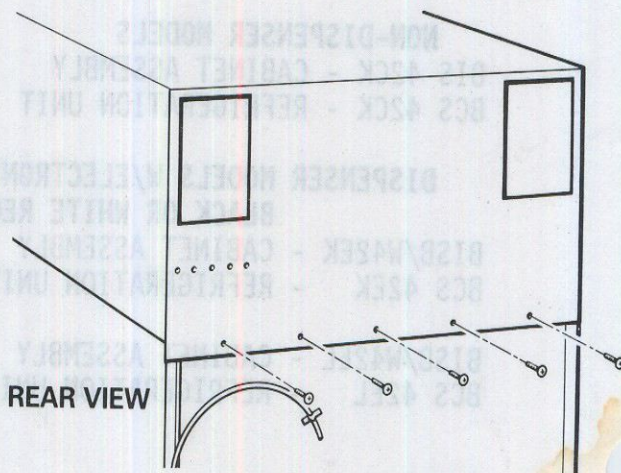
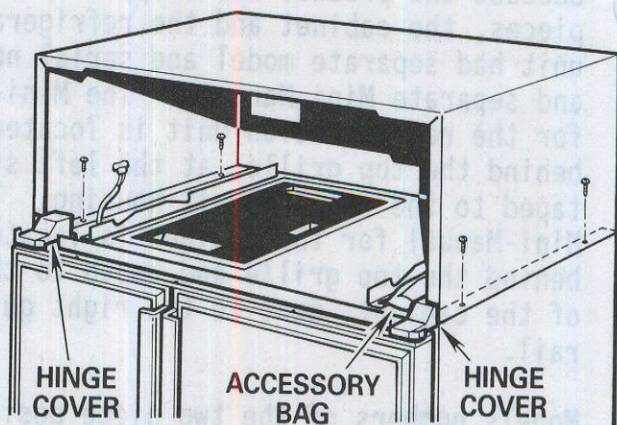


It is very important to note that the refrigeration unit and the cabinet assembly model numbers on two piece units must match when assembling. Although the units look similar, wiring differences will not allow them to be mismatched. This does not present a problem with the one piece unit since the refrigeration unit and cabinet assembly are mated in the factory.

## INSTALLATION OF TWO - PIECE UNITS

### Assembly

After the product is delivered to the consumer's kitchen, assembly is required. An accessory bag containing assembly parts is located on the top of the cabinet on the right side next to the right guide rail. The hood for the refrigeration unit is assembled to the top of the cabinet. Bolts and washers are used to secure the sides of the hood to the top of the cabinet and sheet metal screws are driven in along the rear. The cabinet is then rolled into position, leveled and permanently built-in. Panels, selected by the consumer, are installed on the doors and sides, as desired.



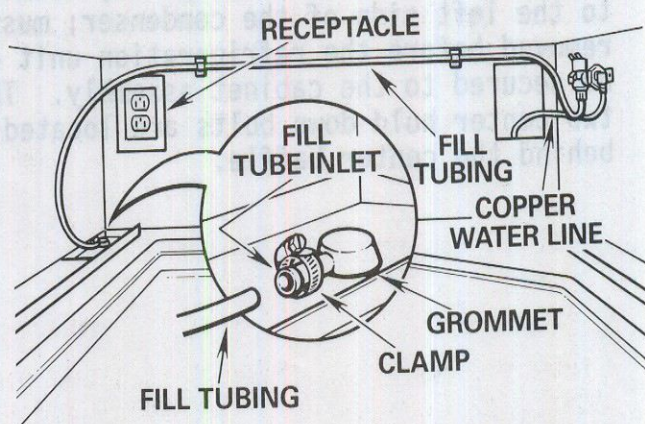


# MONOGRAM REFRIGERATORS

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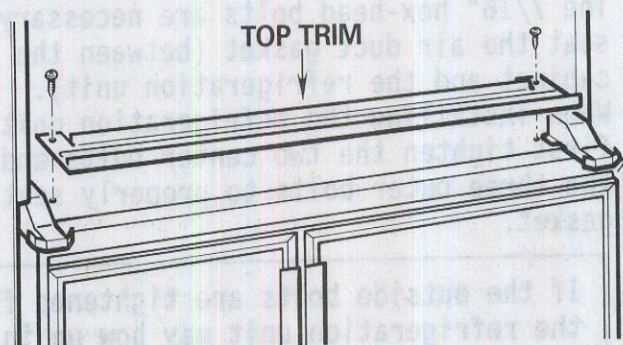
## Electrical & Water Connections

A 115 volt electrical receptacle should be provided behind the left side of the hood. A copper water supply line should be connected to the inlet of the water valve at the right side of the hood. The plastic fill tubing, routed from the outlet of the water valve across the top rear corner of the hood is connected to the fill tube grommet located in the top left rear corner of the cabinet. The water supply line and the fill tubing should be connected before the refrigeration unit is installed.



## Top Trim Removal

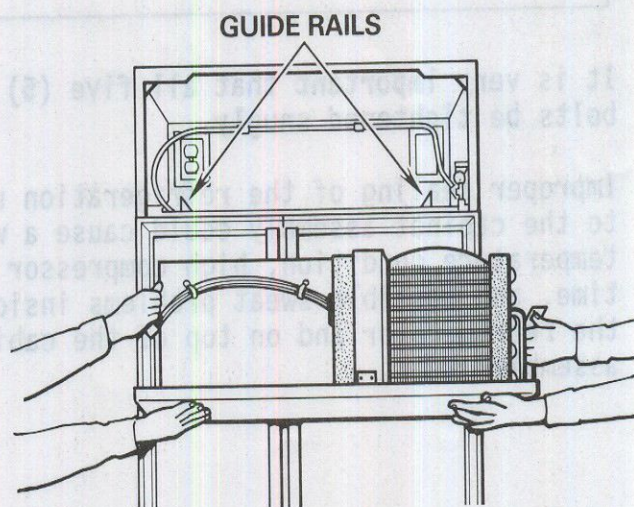
The cabinet top trim must be removed before the refrigeration unit is installed. (It is also easier to remove the hinge covers if the top trim has been removed.) The top trim is factory installed on the cabinet with two Phillips head screws - one in each end of the trim.



## Refrigeration Unit Installation

After the top trim has been removed, the refrigeration unit can be positioned into the hood. Guide rails on the top of the cabinet assembly are provided to guide the unit into position.

Due to the weight of the refrigeration unit (approx 130 lbs.) installation will require two people.

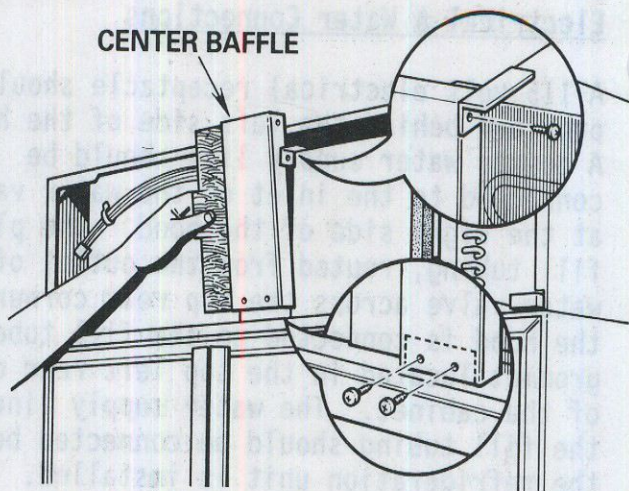




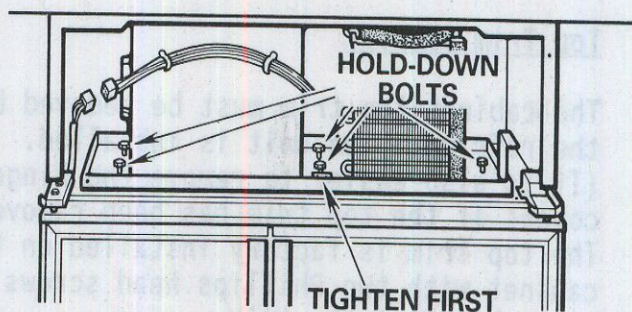
## MONOGRAM REFRIGERATORS

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The center baffle (access panel) attached to the left side of the condenser; must be removed before the refrigeration unit can be secured to the cabinet assembly. The two center hold down bolts are located behind the center baffle.



Five hold down bolts are used to secure the refrigeration unit to the cabinet assembly. The 7/16" hex-head bolts are necessary to seat the air duct gasket (between the cabinet and the refrigeration unit). When installing the refrigeration unit, first tighten the two center bolts and then the three outer bolts to properly seat the gasket.



If the outside bolts are tightened first the refrigeration unit may bow up in the center and provide an air leak path due to an unsealed gasket.

It is very important that all five (5) bolts be tightened snugly.

Improper sealing of the refrigeration unit to the cabinet assembly could cause a warm temperature condition, high compressor run time, and possible sweat problems inside the refrigerator and on top of the cabinet assembly.



# MONOGRAM REFRIGERATORS

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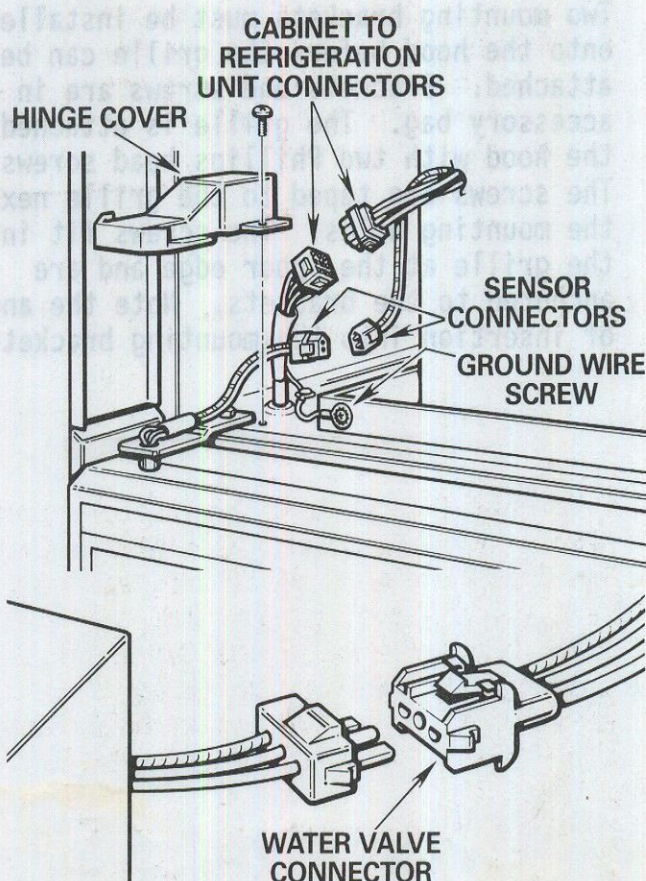
## Harness Connections

After the refrigeration unit has been bolted securely to the cabinet, the electrical wiring harnesses must be connected.

The main wiring harness and the current sensor connectors are located at the left side of the refrigeration unit. The main wiring harness connector and the current sensors connector extending from the refrigeration unit are connected to respective harnesses entering from the cabinet and freezer door. The upper left hinge cover must be removed to allow access to the current sensor wiring connector on dispenser models.

A ground wire must be attached to the refrigeration unit at the left front edge.

The water valve harness is connected to the water valve at the right side. A connector on the water valve is connected to the harness extending from the refrigeration unit - - behind the condenser.

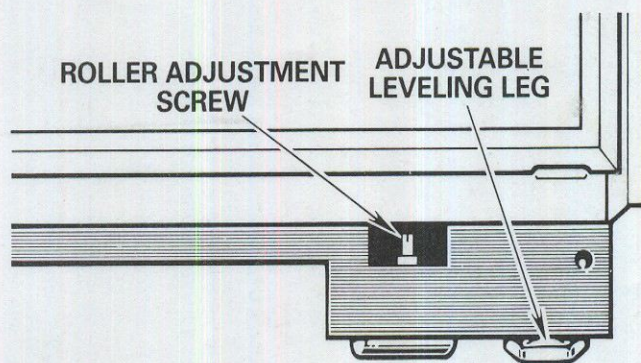


## Power Cord Connection

Before plugging the power cord into the electrical receptacle, turn the freezer temperature control to the "off" position. Then, connect the power cord to the electrical receptacle at the left rear corner of the refrigeration unit. Turn the freezer temperature control knob to position "5" and note if the unit starts and runs correctly.

## Leveling

The cabinet should be level (zero tilt) from front-to-back and side-to-side. To level the cabinet, adjust the legs not rollers. After adjusting the leveling legs until the cabinet is level, then adjust the rollers so they are just contacting the floor surface. The rollers are used to help stabilize the cabinet - - not to support the weight. Due to the three point design of the roller and leveling system, it may be necessary to add shims under the rear rollers to achieve proper leveling.



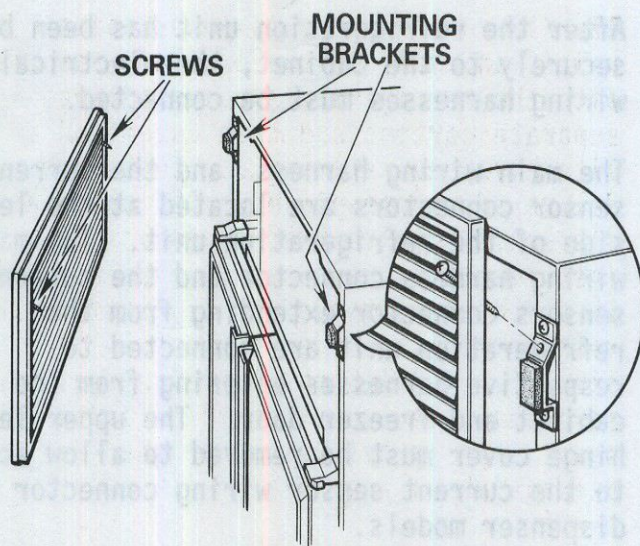


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## Grill Mounting

Two mounting brackets must be installed onto the hood before the grille can be attached. Brackets and screws are in the accessory bag. The grille is attached to the hood with two Phillips head screws. The screws are taped to the grille next to the mounting holes. The screws fit into the grille at the upper edge and are anchored to the brackets. Note the angle of insertion into the mounting brackets.



If during assembly or disassembly the grille is accidentally scratched, touch up paint is available. Order part number WR97X0242.





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## INSTALLATION OF ONE-PIECE UNITS

The ZIS models are shipped as one piece units, and many of the problems associated with the refrigerators being shipped in two separate cartons and then assembled at the site have been eliminated. Although delivered as one-piece units, they can be disassembled into two component parts (refrigeration unit and cabinet assembly). It is not recommended to disassemble the refrigerator in order to install the product. The ZIS models weigh considerably more than the two piece units and are top heavy. The total weight of the refrigerators are:

- 590 lbs. for the C models
- 604 lbs. for the E models

After uncrating the one-piece Monogram Refrigerator, it is ready to roll into the provided opening, level, connect and permanently build-in.

Other than the obvious difference of one-piece vs. two-piece delivery, the ZIS models have a few subtle differences. But basically they are the same as the BIS models.

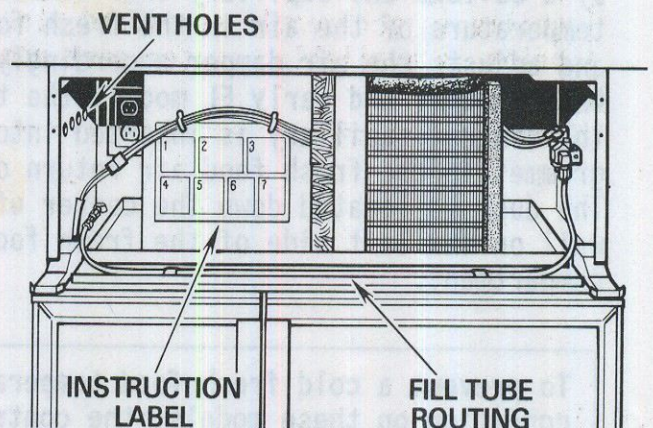
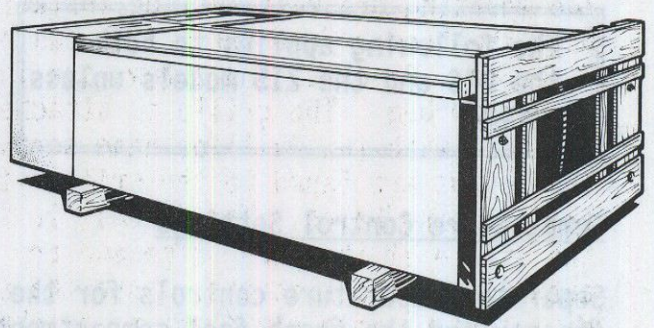
### Differences Include:

- o The hood has vent holes added to the left side to allow warm air to pass down the side of the cabinet.
- o Fill tubing for the icemaker is routed to the front of the unit and around the cooling unit. A brass fitting has been added to the end of the fill tubing where it connects to the inlet grommet to prevent fill tube blow off.

Older models experiencing this problem should have a WR49X0338 kit installed to eliminate it.

- o A new label appears on the front of the cooling unit, explaining how to disassemble the one-piece unit and then reassemble it. The new label is white, whereas the original label is red.

If for some reason the refrigeration unit must be removed from the cabinet unit, it will require two people to safely do so.





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## USE AND CARE INFORMATION

The following applies to both the BIS and the ZIS models unless noted.

### Temperature Control Settings

Separate temperature controls for the freezer and the fresh food compartments are located up-front, in the respective compartments. Both controls have numbers "1" through "9" and, initially, should be set at position "5". The freezer temperature control has an "off" position.

### Freezer Control

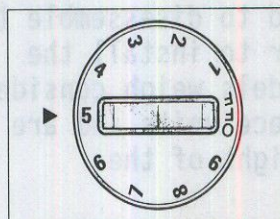
The freezer control is an electrical control with a capillary that senses a change in the air temperature to regulate the compressor run time.

### Fresh Food Control

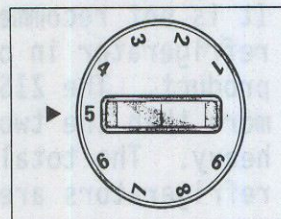
The fresh food control is an automatic air damper control that regulates the amount of cold air supplied to the fresh food compartment. The air damper is controlled by a bellows and capillary that senses the temperature of the air in the fresh food and adjusts the air damper accordingly. On EK models and early EL models the tip of the control capillary is inserted into a grommet in the fresh food air return duct. The duct is located down the center of the wall on the left side of the fresh food compartment.

To prevent a cold fresh food temperature condition on these models, the control capillary routing was modified and the capillary attached to the left wall with a bracket. On models where a "too cold fresh food" complaint is made and the capillary tip is inside the air return, a field correction may be as easy as ordering a WR02X8253 bracket and rerouting the capillary.

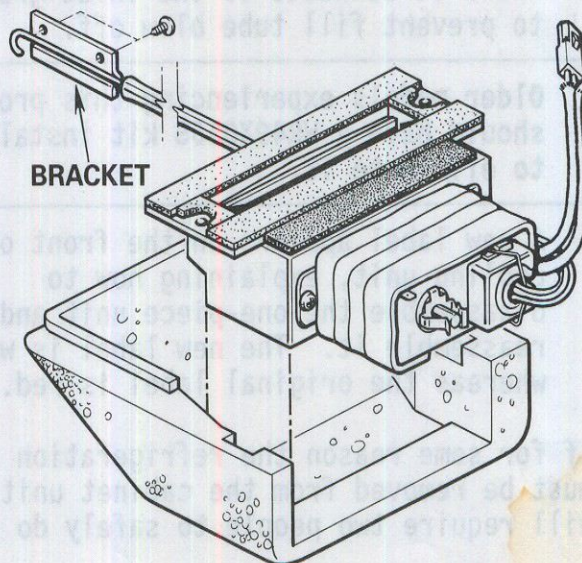
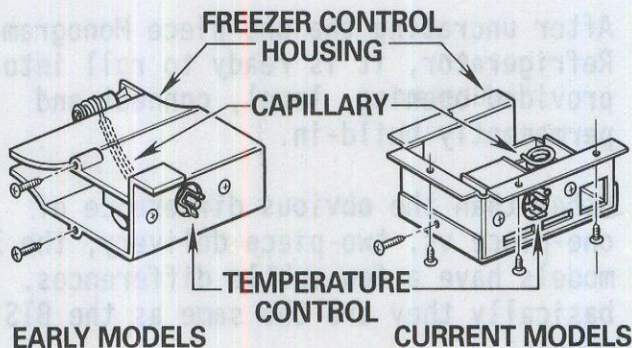
### TEMPERATURE CONTROLS



FRESH FOOD



FREEZER



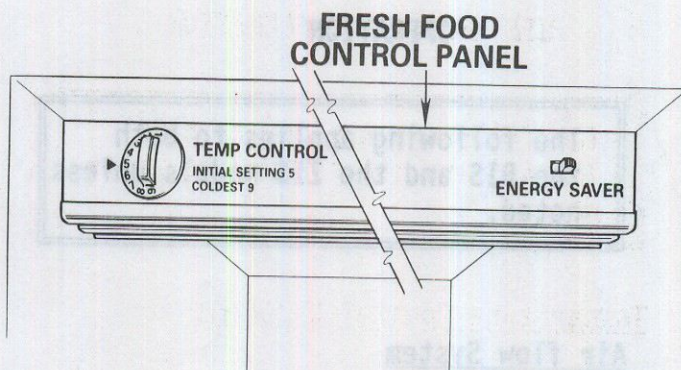


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## Energy Saver Switch

The energy saver switch is located behind the fresh food control console. It is in the right front corner and has two positions.



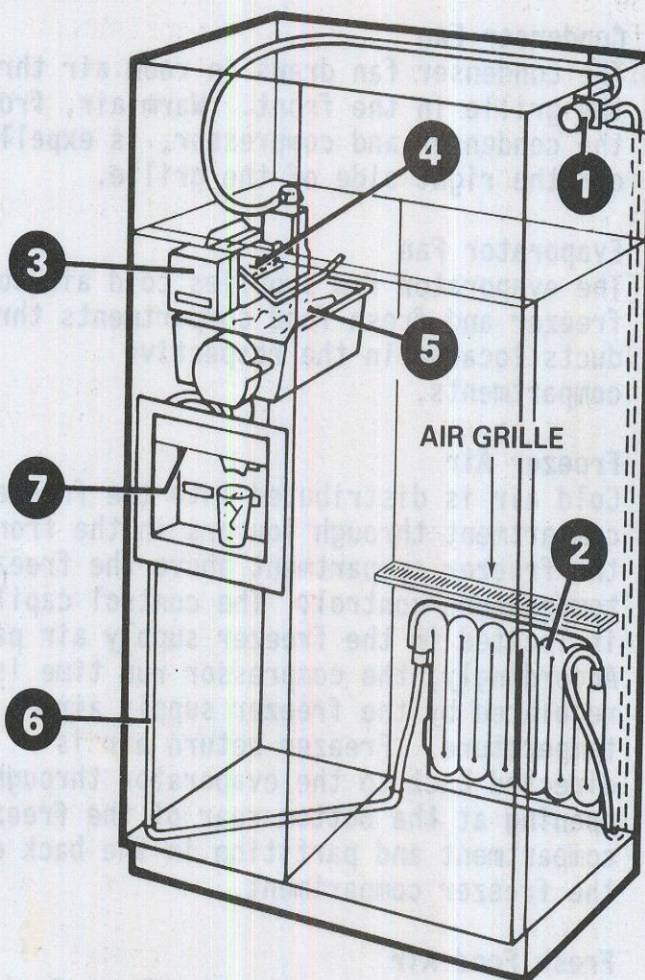
## Water and Ice System Components

From the illustration, and in order:

1. Water valve and tubing connections.  
(Tube routing will be different on ZIS models.)
2. Water reservoir.

**Note:** to correct a reservoir freezing problem tape over the entire air grille.

3. Ice maker
4. Ice cube mold.
5. Auger and ice bucket assembly.
6. Water tubing inside freezer door.
7. Dispenser Recess Assembly.



## Condenser Cleaning

The condenser, located in the refrigeration unit compartment, should be cleaned at least once a year for efficient operation. After removing the grille, the surface of the condenser to be cleaned is exposed at the right front of the unit.





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## OPERATION

The following applies to both the BIS and the ZIS models unless noted.

### Air flow System

#### Condenser Fan

The condenser fan draws in room air through the grille in the front. Warm air, from the condenser and compressor, is expelled out the right side of the grille.

#### Evaporator Fan

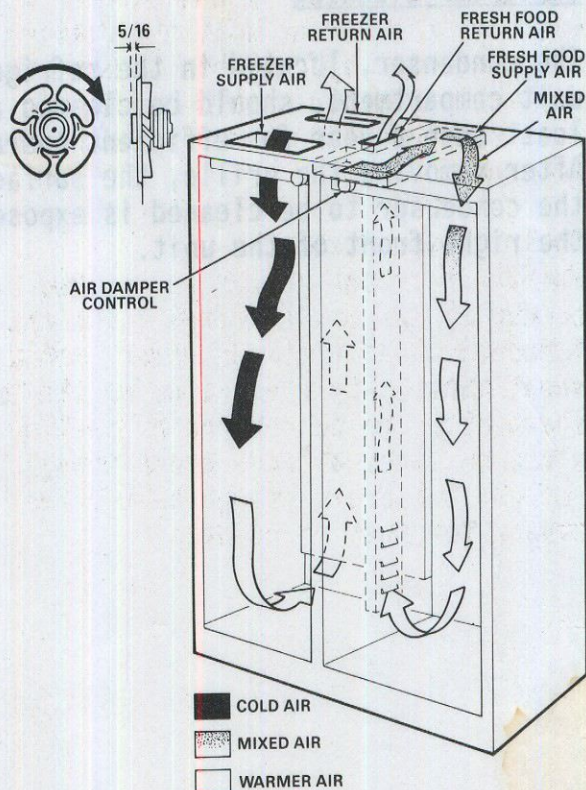
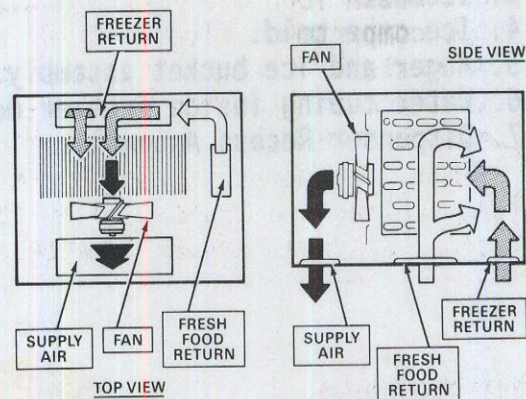
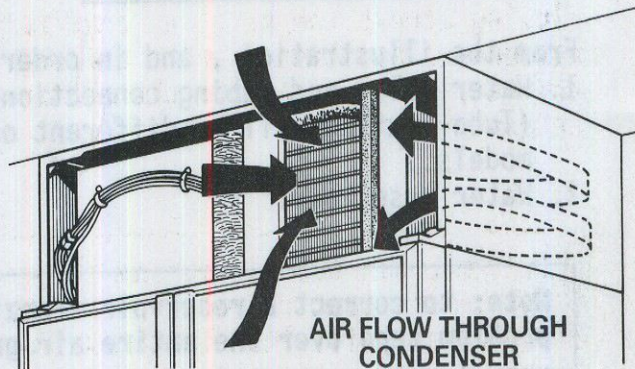
The evaporator fan supplies cold air to the freezer and fresh food compartments through ducts located in the respective compartments.

#### Freezer Air

Cold air is distributed into the freezer compartment through louvers in the front of the freezer compartment above the freezer temperature control. The control capillary is located in the freezer supply air path. Accordingly, the compressor run time is regulated by the freezer supply air temperature. Freezer return air is directed back to the evaporator through an opening at the bottom rear of the freezer compartment and partition in the back of the freezer compartment.

#### Fresh Food Air

Some freezer air enters the fresh food compartment through a channel at the top of the cabinet assembly. Cold air passes through the thermostatically controlled air damper and is directed to the rear of the compartment and down into the compartment. Warm air is returned to the evaporator through a duct between the fresh food and freezer liner walls. The return air enters the duct through 6 louvers located in the lower left liner wall.

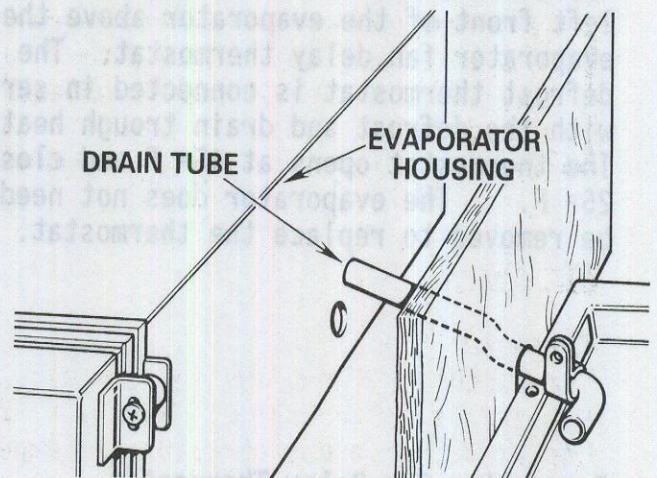




## Defrost and Drain System

### Drain Tube and Auxiliary condenser

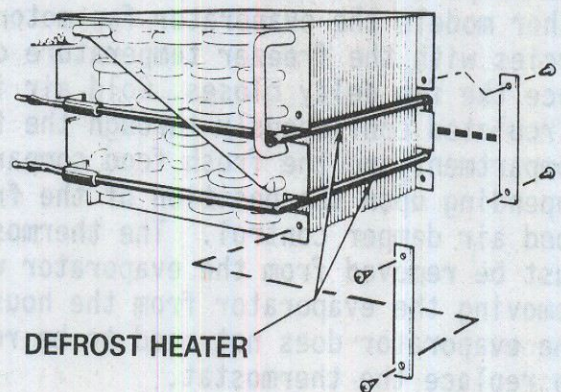
Defrost water from the drain trough, under the evaporator, flows through a tube that extends to the defrost water pan at the right side of the refrigeration unit. In addition to warm air from the condenser fan flowing across the pan, an auxiliary condenser, positioned under the bottom of the pan, helps evaporate the accumulated defrost water.



If the drain tube is not positioned on the drain spout correctly, defrost water can spill into the fresh food compartment. It will usually appear as very clear clean water at the bottom of the fresh food air return ducts and on the compartment floor. After several defrosts have occurred, this drain water will accumulate enough to drain out the bottom of fresh food door and onto the floor. To correct this condition, reposition the drain tube on the drain spout and seal around it with permagum.

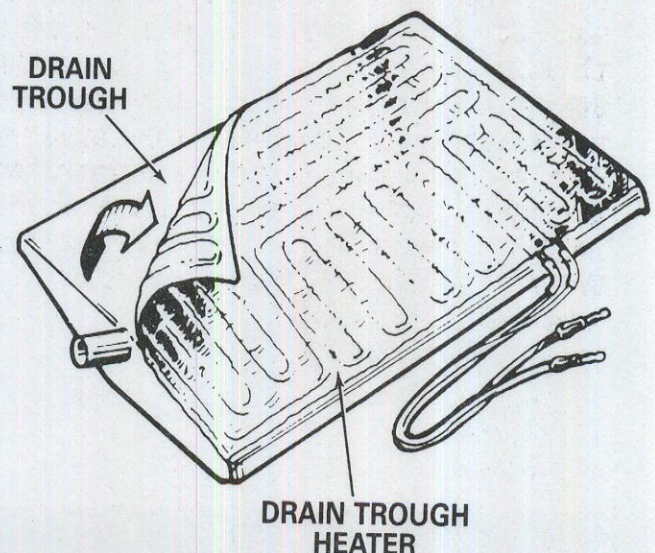
### Defrost Heater

The defrost heater is positioned into the right side and rear of the evaporator and held securely by brackets at each end. To replace the defrost heater, the evaporator must be removed from the evaporator housing.



### Drain Trough Heater

The drain trough heater is located on the bottom of the drain trough. The heater is imbedded in an aluminum sheet, and the sheet adheres to the bottom of the trough. The heater can be removed by peeling the aluminum sheet off the drain trough. To replace the drain trough heater the evaporator must be removed.



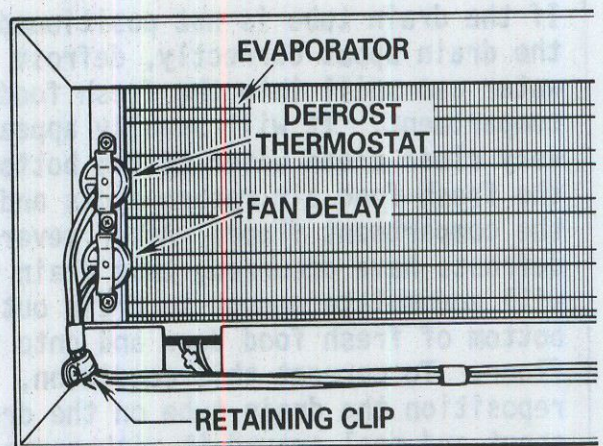


## Defrost Thermostat

The defrost thermostat is mounted to the left front of the evaporator above the evaporator fan delay thermostat. The defrost thermostat is connected in series with the defrost and drain trough heaters. The thermostat opens at 45° F and closes at 25° F. The evaporator does not need to be removed to replace the thermostat.

## Evaporator Fan Delay Thermostat

All models are equipped with an evaporator fan delay thermostat mounted to the front of the evaporator. The fan delay is connected in series with the evaporator fan motor. The thermostat closes at 25° F and opens at 45° F. The thermostat delays the fan for about 10 minutes after a defrost cycle to allow the evaporator to cool down. On **EK MODELS** once the fan delay thermostat closes, the evaporator fan continues to run until the next defrost cycle, even though the temperature control opens. On all other models the evaporator fan motor cycles with the freezer temperature control once the fan delay closes. Cold air is circulated continuously through the freezer compartment and the fresh food compartment depending upon the position of the fresh food air damper control. The thermostat must be removed from the evaporator when removing the evaporator from the housing. The evaporator does not need to be removed to replace the thermostat.





## Electrical System

### Defrost Control

Different defrost controls have been used on Monogram Refrigerators. Depending on the model being serviced the control may be either wired across the line or connected in series with the freezer temperature control. The controls used to date are:

BIS - EK models	8 hours @ 30 minutes
BIS - EL & CK models	10 hours @ 35 minutes
	12 hours @ 35 minutes
ZIS - EM & CM models	10 hours @ 35 minutes

### Defrost Heater and Drain Trough Heater

The defrost heater and drain trough heater, connected in parallel, are wired in series with the defrost thermostat.

### Evaporator Fan Motor Relay

On some early models, an evaporator fan motor relay was provided as an auxiliary hook-up inside the refrigeration unit electrical enclosure. The relay, when connected, provides for continuous running of the evaporator fan except during defrost.

### Relay and Start Capacitor

A current type relay and a start capacitor are utilized to start the compressor motor.

### Condenser Fan and Evaporator Fan

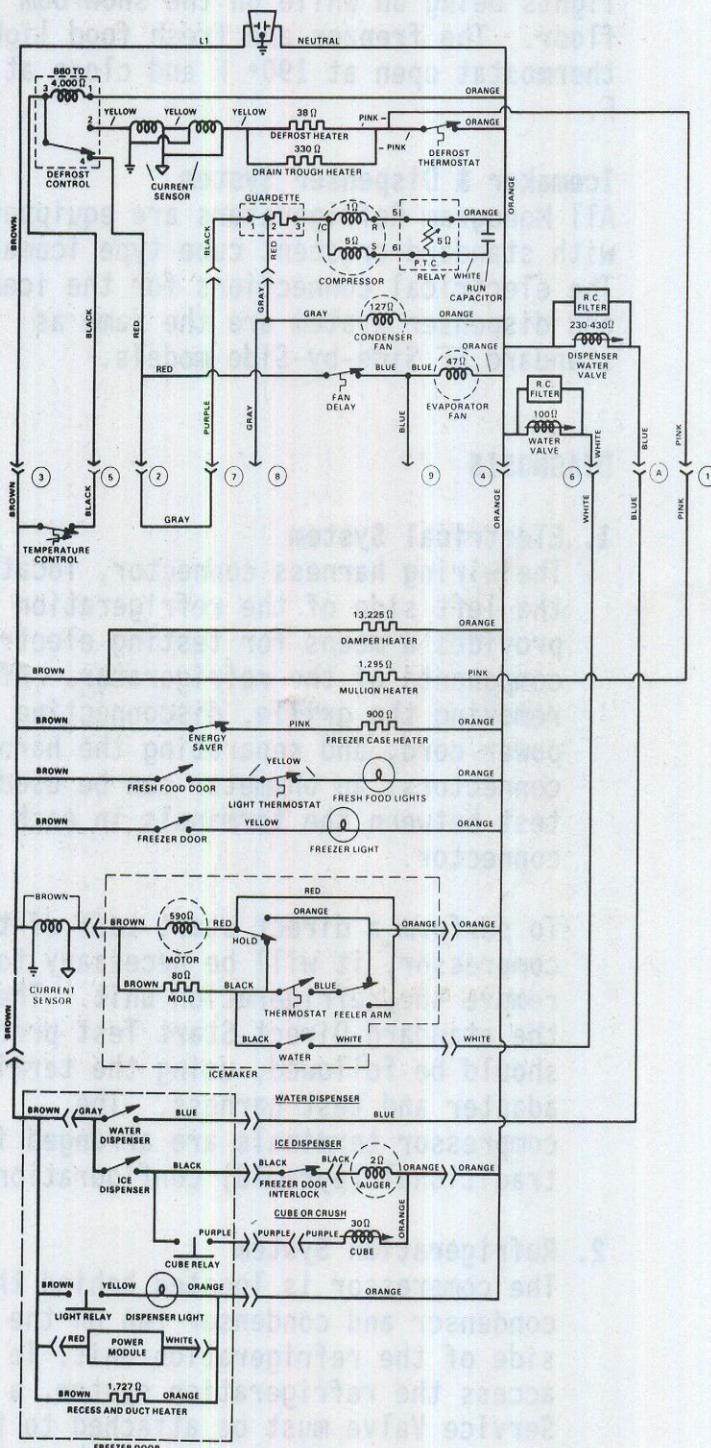
The condenser fan and evaporator fan wiring is different among the various models. Accordingly, refer to the mini-manual for correct wiring for a particular model.

### Damper Heater

A damper heater is located on the fresh food control and is energized at all times.

### Mullion Heater & Freezer Case Heater

The mullion heater is energized at all times on the BIS 42 EK model - - except during the defrost cycle. On all other models the mullion heater is energized at all times - - except when the defrost thermostat is open. The freezer case heater, surrounding the front of the freezer compartment, is energized at all times - - except when the energy saver switch is positioned to "off".



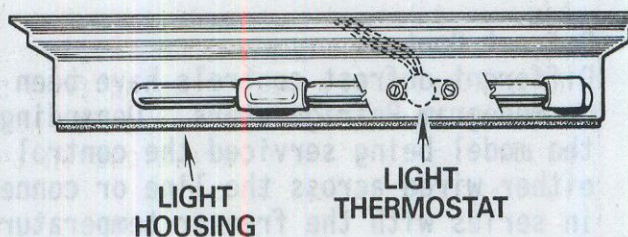


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## Light Thermostats

A light thermostat is located in both the freezer and fresh food compartments on non-dispenser models but only in the fresh food compartment on dispenser models. These thermostats protect against overheating of interior areas from the lights being on while on the showroom floor. The freezer and fresh food light thermostat open at 190° F and close at 140° F.



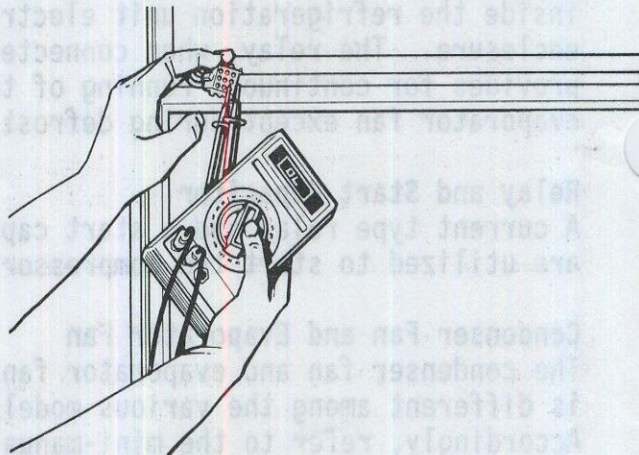
## Icemaker & Dispenser System

All Monogram Refrigerators are equipped with standard crescent cube type icemakers. The electrical connections for the icemaker and dispenser system are the same as standard GE Side-by-Side models.

## DIAGNOSIS

### 1. Electrical System

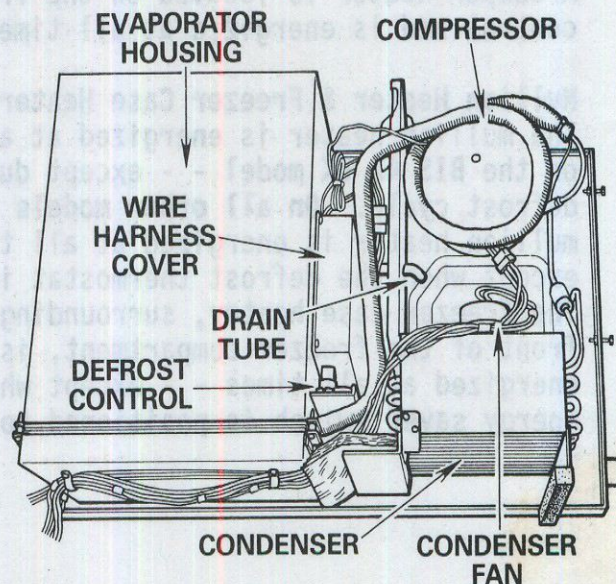
The wiring harness connector, located at the left side of the refrigeration unit, provides a means for testing electrical components of the refrigerator. After removing the grille, disconnecting the power cord, and separating the harness connectors: an ohmmeter can be used to test between the terminals in each connector.



To perform a direct start test of the compressor, it will be necessary to remove the refrigeration unit. Then, the standard Direct Start Test procedure should be followed, using the terminal adapter and test harness. The compressor terminals are arranged in the traditional (pyramid) configuration.

### 2. Refrigeration System

The compressor is located behind the condenser and condenser fan on the right side of the refrigeration unit. To access the refrigeration system, a Service Valve must be attached to the low pressure process tube extending from the compressor case. For diagnosis of the refrigeration system, use the standard Compressor Capacity Test or the Leak-Restriction Test, as required.





Adapter plugs are available to permit operation of (running) the refrigeration unit once it has been removed from the cabinet assembly. There are TWO adapter plugs due to wiring variations in the various refrigeration units.

UNIT	ADAPTER
BCS42EK	WR97X0240
BCS42CK & EL	WR97X0241
ZIS42CM & EM	WR97X0241

## REPAIR AND ADJUSTMENTS

The following applies to both the BIS and the ZIS models unless noted.

### Refrigeration Unit

The following repair and adjustments can be made without removing the refrigeration unit.

#### Water Valve

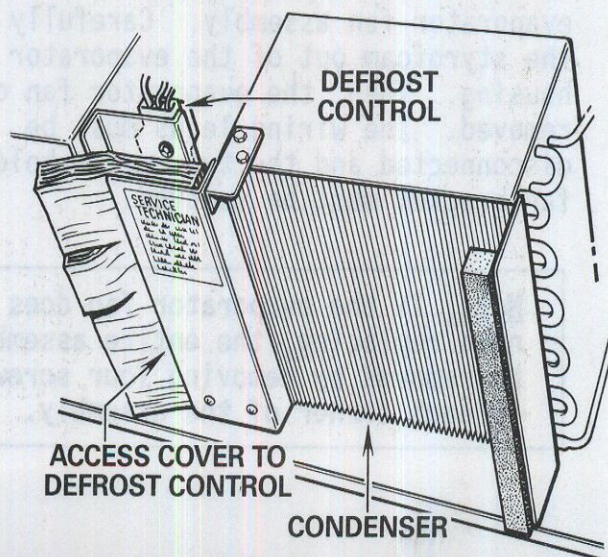
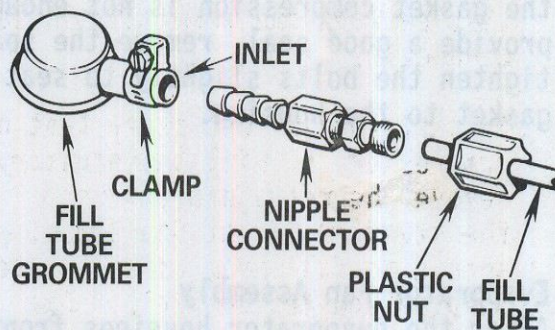
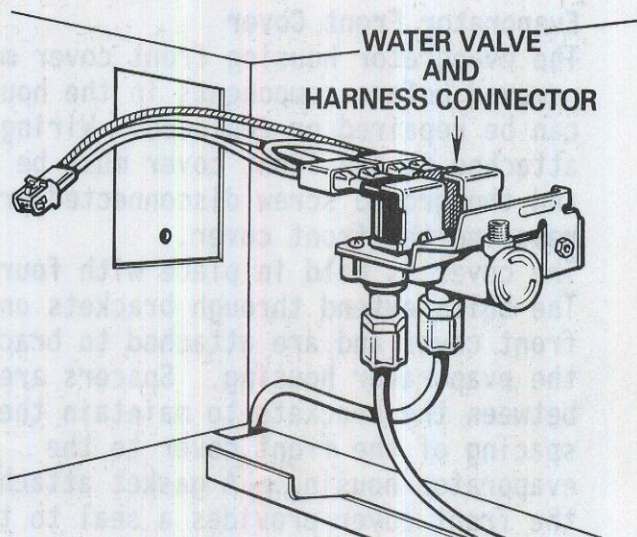
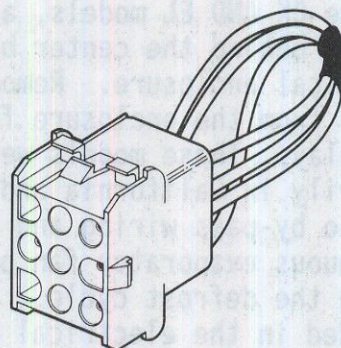
The water valve is mounted to a bracket at the right side of the refrigeration unit.

#### Icemaker Fill Tubing

To prevent the fill tubing from blowing out of the grommet inlet, a WR49X0338 repair kit can be installed. The fill tubing must be rerouted from around the inside back of the refrigeration hood to the front of the evaporator housing. A brass fitting is included in the kit which will be inserted into the grommet inlet and secured with a metal clamp. Complete instructions are included in the kit.

#### Defrost Control

The defrost control is located at the front of the refrigeration unit behind, the center baffle. The control is mounted to a bracket at the right side of the evaporator housing. To remove the control, the center baffle must be removed.



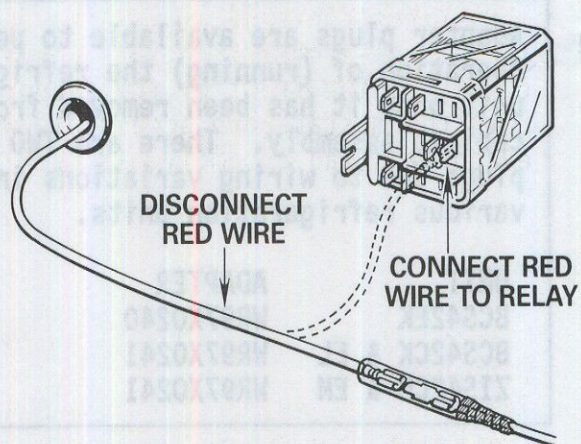


# MONOGRAM REFRIGERATORS

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## Fan Relay

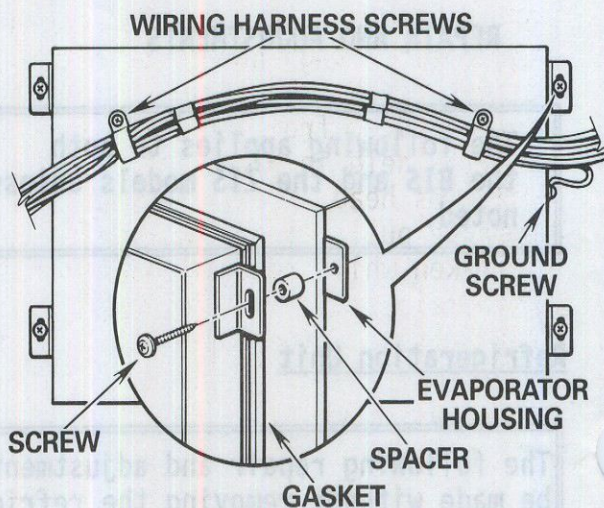
On some **CK AND EL** models, a fan relay is located behind the center baffle and in the electrical enclosure. Remove the four screws from the enclosure for access to the fan relay. These models were sold primarily in California and the relay is used to by-pass wiring and to provide continuous evaporator fan operation except during the defrost cycle. Instructions are provided in the electrical enclosure for proper connections.



## Evaporator Front Cover

The evaporator housing front cover must be removed before components in the housing can be repaired or replaced. Wiring attached to the front cover must be removed and the ground screw disconnected prior to removing the front cover.

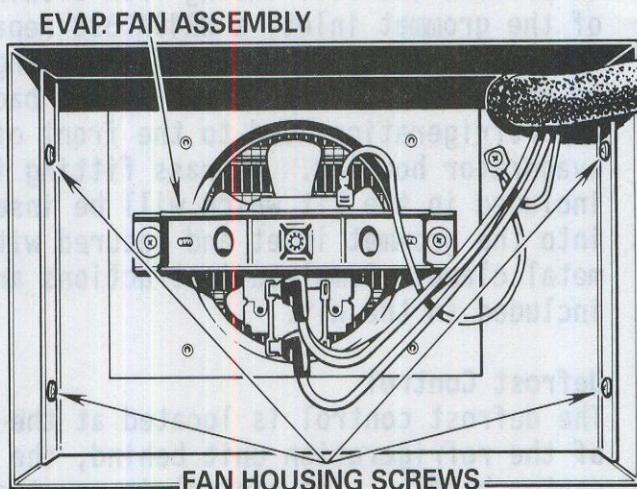
The cover is held in place with four bolts. The bolts extend through brackets on the front cover and are attached to brackets on the evaporator housing. Spacers are used between the brackets to maintain the proper spacing of the front cover to the evaporator housing. A gasket attached to the front cover provides a seal to the evaporator housing. If upon reassembly, the gasket compression is not enough to provide a good seal, remove the spacers and tighten the bolts slightly to seat the gasket to the housing.



## Evaporator Fan Assembly

After the evaporator housings front cover is removed, a styrofoam plenum covers the evaporator fan assembly. Carefully pull the styrofoam out of the evaporator housing. Then, the evaporator fan can be removed. The wiring leads must be disconnected and the two screws holding the fan bracket must be removed.

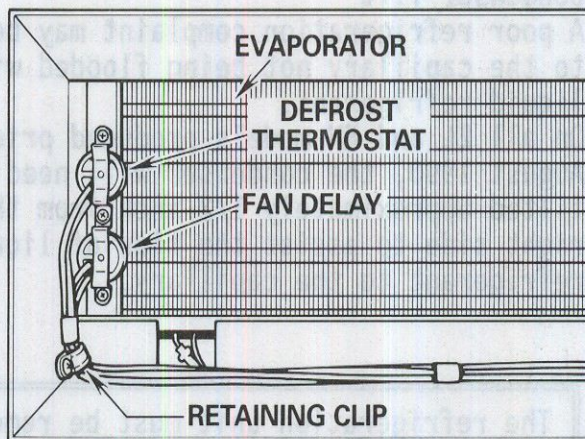
**Note:** If the evaporator fan does not need replacing, the entire assembly can be removed by removing four screws, one in each corner of the assembly.





## Defrost and Fan Delay Thermostats

The defrost thermostat and fan delay thermostat are mounted, one above the other, to the front of the evaporator. Both thermostats are accessible when the evaporator fan assembly has been removed.

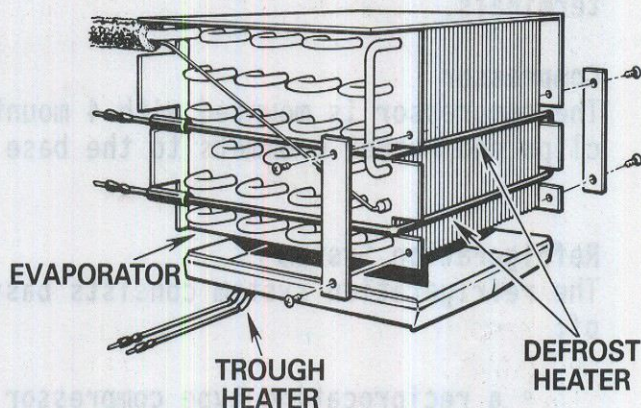


## Evaporator

To remove the evaporator assembly, the evaporator fan delay and defrost thermostats must be removed from the front of the evaporator. The defrost heater and the drain trough heater connection must be disconnected. The drain tube must be disconnected from the drain spout. The tube is held in place with a clip and a Phillips head screw. The evaporator can then be pulled from the housing. Care must be taken while removing to avoid hitting the drain trough on the air duct opening in the bottom of the housing. Lift the evaporator up as it is being pulled forward. Components can then be repaired or replaced.

## Defrost Heater

The defrost heater is positioned into the right side and rear of the evaporator and secured by brackets at each end.



## Drain Trough Heater

The drain trough heater is positioned on the bottom of the drain trough. The heater is imbedded in an aluminum sheet, and the sheet adheres to the bottom of the trough. The heater can be removed by peeling the aluminum sheet off the drain trough.



# MONOGRAM REFRIGERATORS

1988 THRU 1991 MODELS

## Condenser Tilt

A poor refrigeration complaint may be due to the capillary not being flooded with liquid refrigerant.

On all EL and EM models produced prior to August 1990, the condenser will need to be tilted approximately 1/2-inch from the right side to assist the flow of liquid refrigerant to the capillary.

The refrigeration unit must be removed for access to all other electrical components. A label on the front of the unit outlines the removal procedure.

## Condenser Fan

The condenser fan motor is mounted to the fan shroud with 3 screws. The motor and blade can be removed without removing the shroud.

## Relay, Guardette and Start Capacitor

The relay and guardette are mounted externally to the compressor case. After removing the compressor terminal cover, the relay and guardette can be removed and replaced. The start capacitor is mounted into a bracket above the compressor terminals.

## Compressor

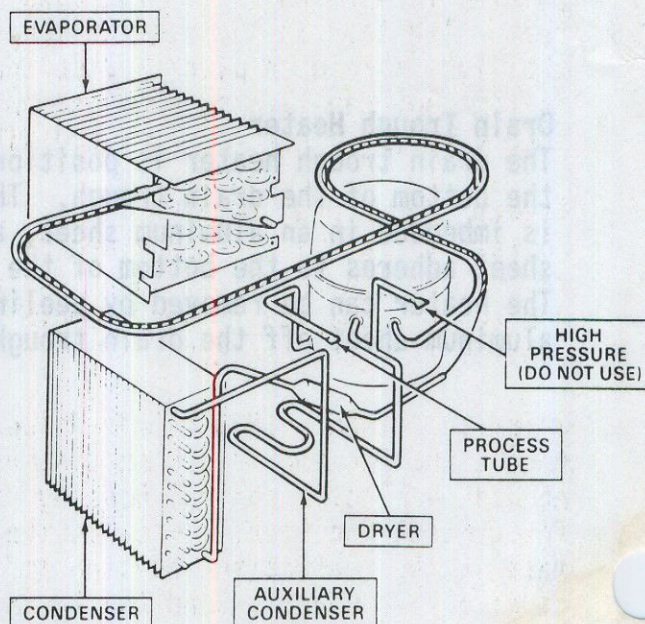
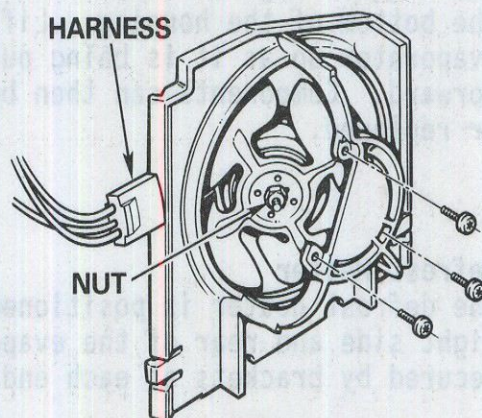
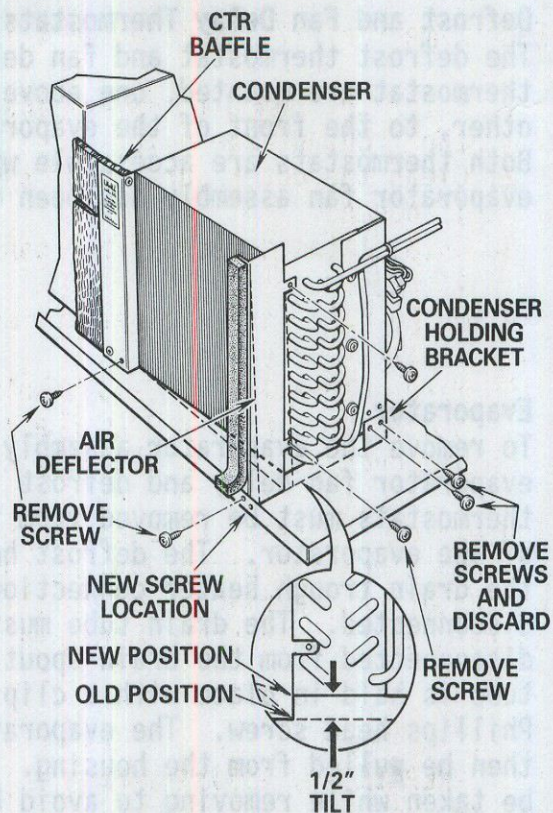
The compressor is mounted with 4 mounting clips and rubber grommets to the base pan.

## Refrigeration System

The refrigeration system consists basically of:

- a reciprocating type compressor
- a fin-and-tube type evaporator
- a fin-and-tube type condenser
- an auxiliary condenser
- a heat-exchanger (capillary/suction tube).

All of these components are available for replacement separately. Copper tubing is used throughout the refrigeration system except for the compressor case and its tubing stubs. Accordingly, in many instances where a leak develops, a repair can be made without replacing a component.





Each time the refrigeration unit is removed:

1. Refer to the unit removal instructions on the front of the unit.
2. Clean the outer surface of the condenser, if needed.
3. Inspect the defrost water pan and clean it, if needed.
4. Inspect the air duct gasket and repair or replace, if needed.
5. Make sure all 5 hold-down bolts are securely reinstalled to the extent that the air duct gasket is slightly compressed.

The air duct gasket seals the supply and return air ducts against corresponding openings in the bottom of the refrigeration unit. The outer gasket seals against the base pan to prevent sweating.

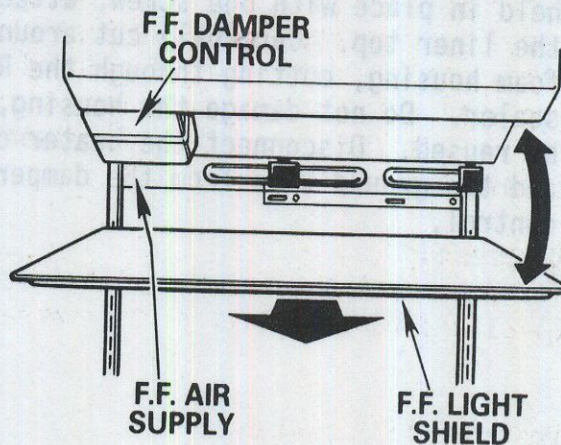
### REPAIR AND ADJUSTMENTS

The following applies to both the BIS and the ZIS models unless noted.

#### Cabinet Assembly

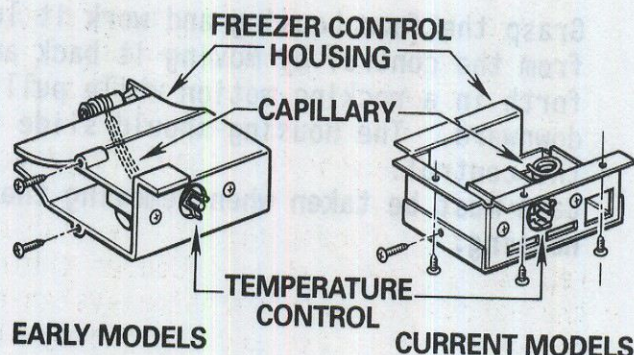
##### Fresh Food Light Shield

The fresh food light shield on dispenser models and the freezer & fresh food light shield on non-dispenser models can be removed by grasping the light shield at the rear and pulling forward while pulling down at the rear. Two tabs in the rear of the liner hold the light shield in place. Once the shield is removed, the lights, bracket, and fresh food air damper control are accessible.



##### Freezer Temperature Control

To remove the freezer temperature control remove the light shield, lamp, control knob and control housing. Then, remove the control from the bracket.



Prior to October, 1988 on non-dispenser models and December, 1988 on dispenser models, a plastic control housing is used. The control and housing incorporate a thermal mass at the rear of the housing and the capillary is wound around the thermal mass.

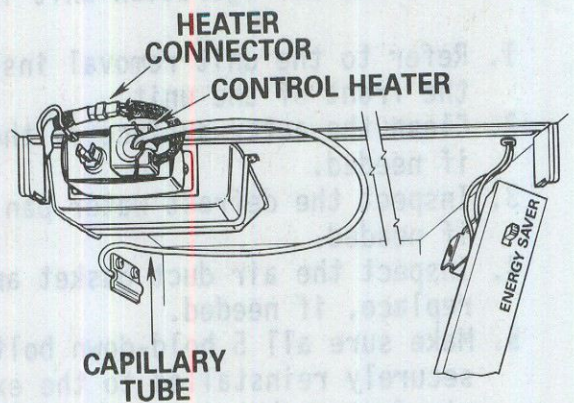


# MONOGRAM REFRIGERATORS

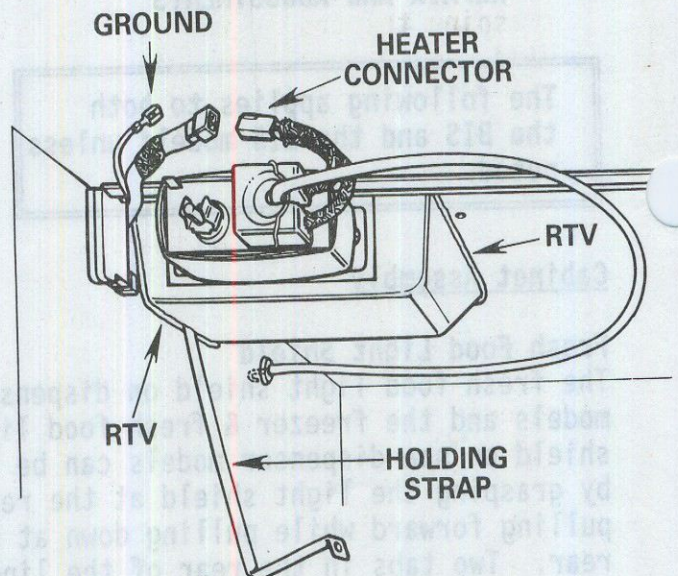
1988 THRU 1991 MODELS

## Fresh Food Air Damper Control

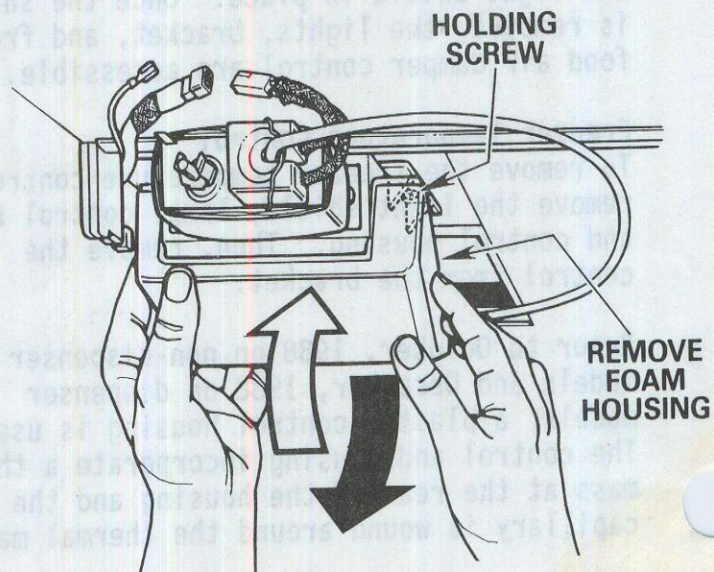
For access to the fresh food air damper control, remove the fresh food light shield and the energy saver switch bracket screw. The screw, located behind the front control panel on the right side, is attached to the liner top. Then, remove the fresh food control knob and the control panel by removing the two screws holding it in place. The control panel snaps into a channel at the rear edge and must be pried free. Place a screw driver in the hole where the control knob was removed and pry the control panel forward. Allow the control panel to be suspended by the wiring to the energy saver switch or disconnect the leads.



Remove the holding strap from around the damper control foam housing. The strap is held in place with one screw, attached to the liner top. Carefully cut around the foam housing, cutting through the RTV sealer. Do not damage the housing, it must be reused. Disconnect the heater connector and the ground wire from the damper control.



Grasp the foam housing and work it loose from the control by moving it back and forth in a rocking motion while pulling downward. The housing should slide free of the control. Care must be taken when removing the foam housing.



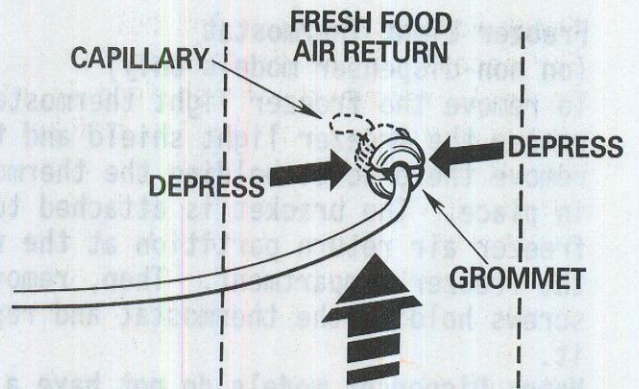


# MONOGRAM REFRIGERATORS

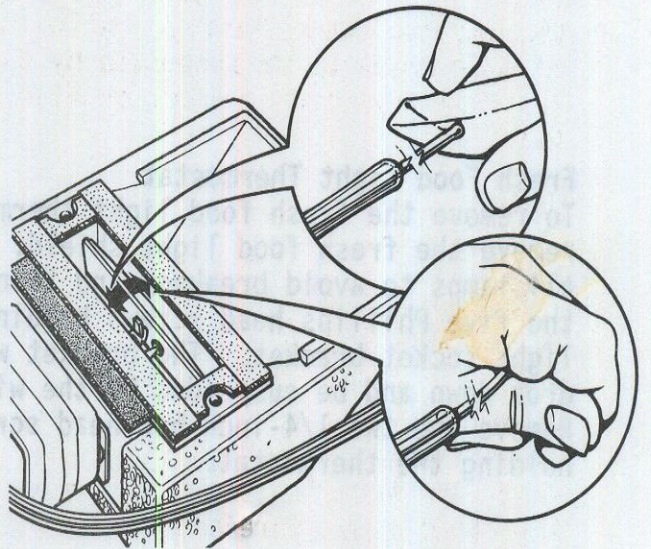
1988 THRU 1991 MODELS

Remove the two screws holding the control in place.

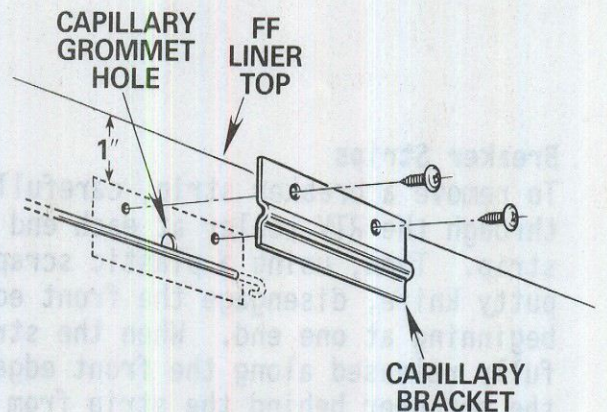
On some earlier models, the capillary may be inserted in a grommet in the fresh food air return. Disengage the capillary from the liner wall by removing the grommet holding it in place. The capillary has a slight bend at the end of the tube to keep it inside the grommet. The grommet can be removed by depressing the tabs and then pulling it out of the hole. Discard the grommet.



The operation of the damper control can be tested by holding an ice cube in contact with the exposed end of the capillary. The damper should slowly close in response to the cold temperature of the ice cube. Then, while grasping the end of the capillary by hand, the damper should open.

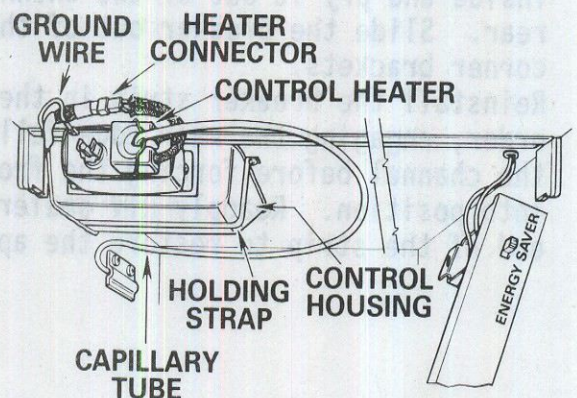


When replacing the WR09X0445 Control, use the bracket included with the replacement control. Complete instructions are included with the replacement control. Seal around the control and foam housing to keep cold air from hitting the damper heater.



## Damper Control Heater

To remove the damper control heater, remove the fresh food light shield, control knob and control panel. Disconnect the heater connector and unsnap the holding clip. If the capillary is routed between the heater wires, the capillary must be removed from its mounting and the heater pulled off the capillary.





## MONOGRAM REFRIGERATORS

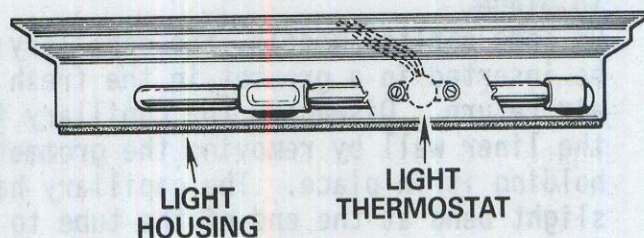
1988 THRU 1991 MODELS

### Freezer Light Thermostat

(on non-dispenser models only)

To remove the freezer light thermostat, remove the freezer light shield and then remove the bracket holding the thermostat in place. The bracket is attached to the freezer air return partition at the rear of the freezer compartment. Then, remove the screws holding the thermostat and replace it.

**Note:** Dispenser models do not have a freezer light thermostat.



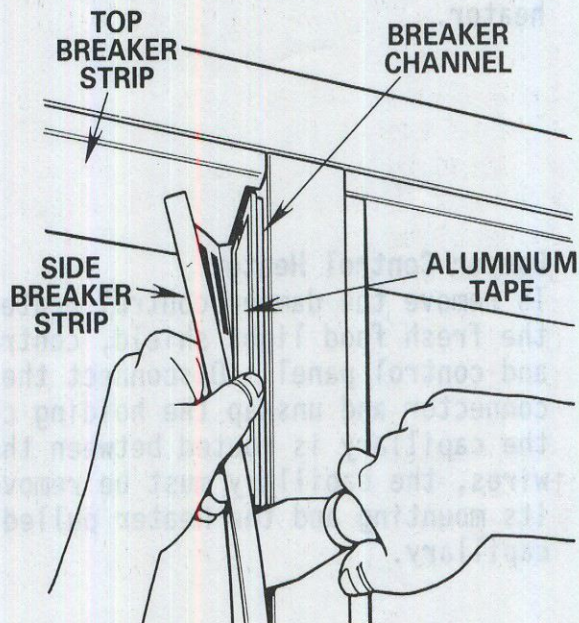
### Fresh Food Light Thermostat

To remove the fresh food light thermostat: remove the fresh food light shield. Remove all lamps to avoid breakage and then remove the five Phillips head screws holding the light socket bracket. The bracket will drop down and be suspended by the wiring. Remove the two 1/4-inch hex head screws holding the thermostat.

### Breaker Strips

To remove a breaker strip, carefully cut through the RTV sealer at each end of the strip. Then, using a plastic scrapper or putty knife, disengage the front edge, beginning at one end. When the strip is fully released along the front edge, insert the scrapper behind the strip from the inside and pry it out of the channel at the rear. Slide the breaker out of the bottom corner brackets.

Reinstall the breaker strip in the reverse order, engaging the rear edge fully into the channel before forcing the front edge into position. Reapply RTV sealer at each end of the strip to restore the appearance.



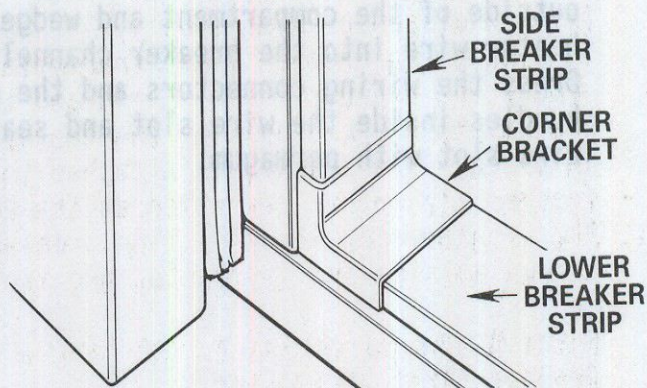


## MONOGRAM REFRIGERATORS

## 1988 THRU 1991 MODELS

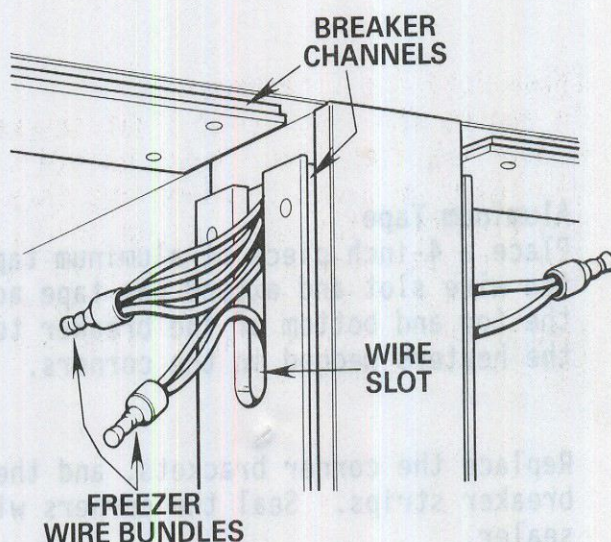
### Corner Brackets

Corner brackets are located in the freezer and fresh food compartments at the bottom corners of the breaker strips. The corner brackets have plastic retaining tabs which engage the case flange and the breaker channel. To remove the corner brackets, first remove the breaker strips and then disengage the lower retaining tab from the breaker channel. Slide the corner bracket up on the side channel approximately 3-inches and then disengage the retaining tabs from the breaker channel. Reinstall in reverse order, and seal the edges with RTV sealer.



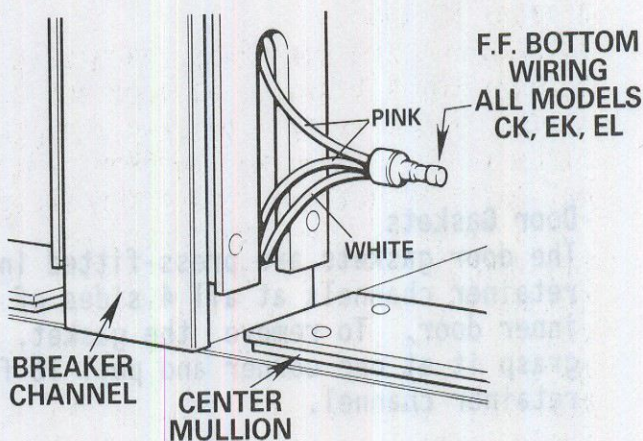
### Case Heaters and Mullion Heaters

The freezer case heater and the fresh food mullion heater are not removable on these models, but additional heaters can be installed. The freezer case heater and the mullion heater are foamed-in-place behind the mullion and case flanges. To install additional heaters, the breaker strips must be removed in the respective compartments.



### Connections for heaters

The connections for the heaters are located inside wire slots in the center mullion. The wire slots are covered with aluminum tape at the top of the inner mullion breakers (on the freezer side) and at the top and bottom of the breaker (on the fresh food side). After removing the aluminum tape, remove the permagum from the wire slot to expose the wire bundles. Care must be taken to avoid damaging the wiring. Pull out the wire bundles to expose the connections. The heater on the freezer side is connected in series. One end of the heater is connected to one bundle and the other end of the heater is connected to the other bundle. Refer to the Mini-Manual to verify proper connections. The fresh food heater is connected at the top and bottom of the compartment and the Mini-Manual should be referenced to determine correct connections.



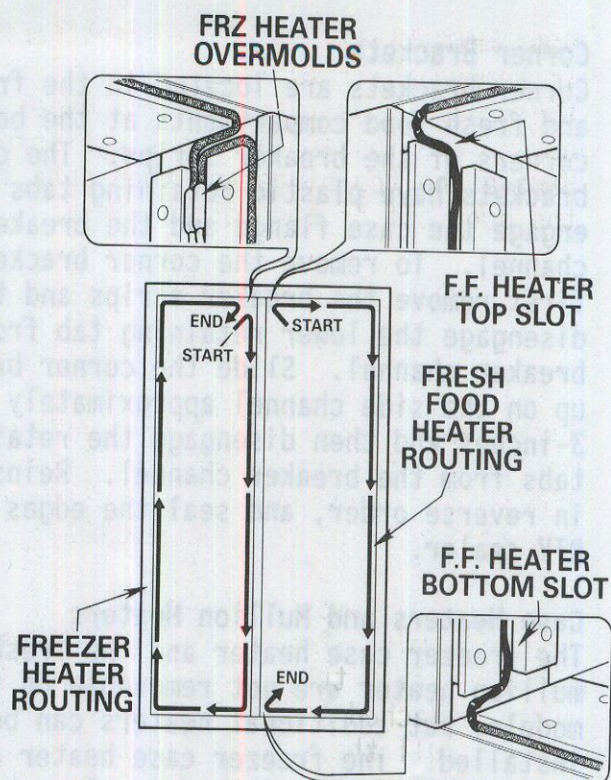


## MONOGRAM REFRIGERATORS

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### Heater Routing

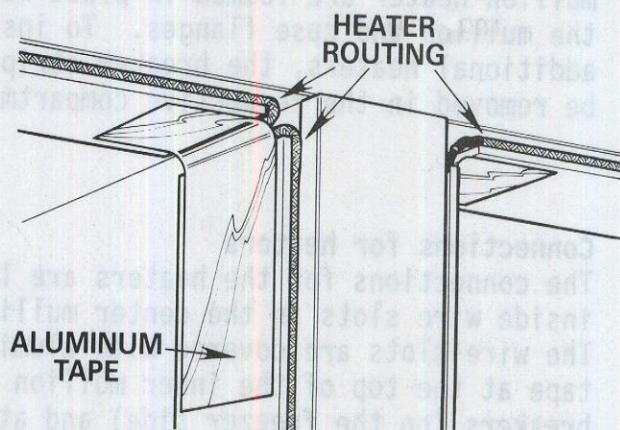
Route the replacement heater around the outside of the compartment and wedge the heater wire into the breaker channel. Dress the wiring connectors and the wire bundles inside the wire slot and seal the wire slot with permagum.



### Aluminum Tape

Place a 4-inch piece of aluminum tape over the wire slot and extend the tape across the top and bottom of the breaker to cover the heaters wedged in the corners.

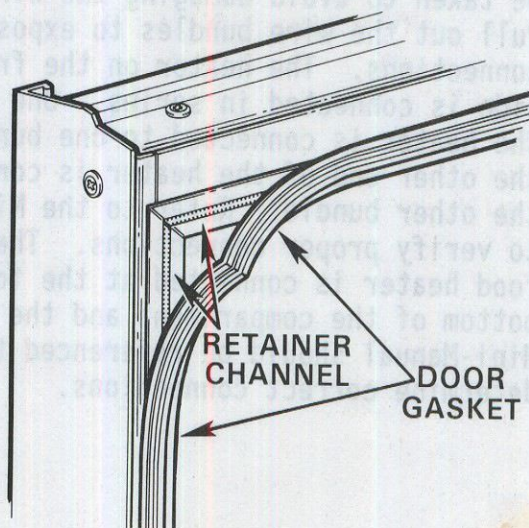
Replace the corner brackets, and the breaker strips. Seal the corners with RTV sealer.



### Door Gaskets

The door gaskets are press-fitted into retainer channels at all 4 sides of each inner door. To remove the gasket, simply grasp it at one corner and pull it from the retainer channel.

To ease the installation of a replacement gasket, rub paraffin wax into the groove of each retainer channel. Position the replacement gasket on the inner door and beginning approximately 6-inches from one corner, press the gasket rib firmly into the retainer channel. Installation of the gasket is easier if heat is applied to the gasket while installing it.



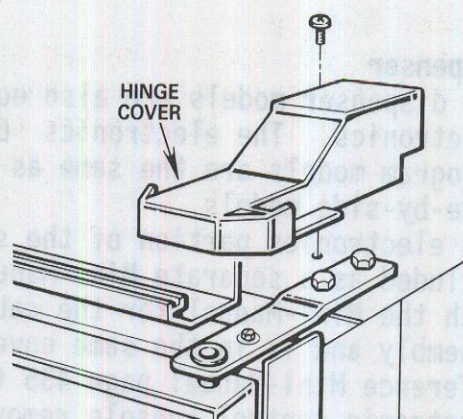


# MONOGRAM REFRIGERATORS

1988 THRU 1991 MODELS

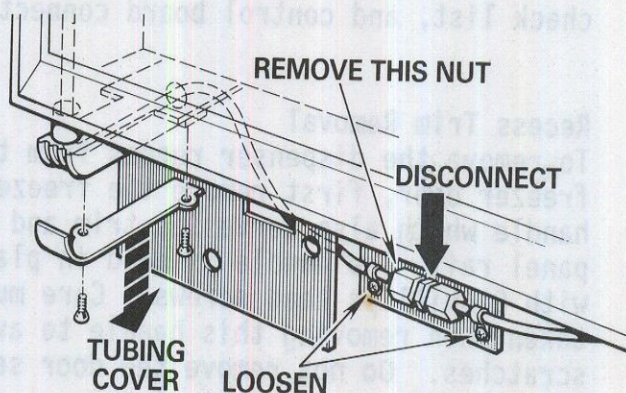
## Door Removal - TOP HINGE - Fresh Food Door

To remove the fresh food door, first remove the grille. Next, remove the upper hinge cover, and loosen the top hinge screws. Remove the top hinge and then open and lift the door off of the bottom hinge.



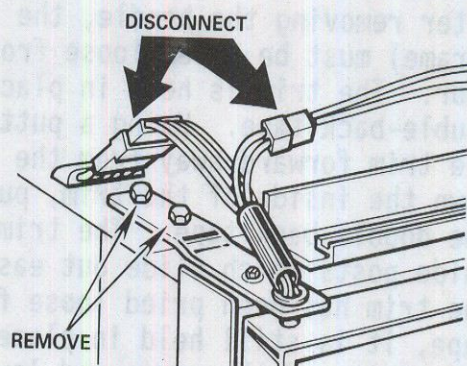
## Door Removal - Fill Tubing - Tubing Cover

On the freezer door of dispenser models, the water dispensers tubing cover and connections must be prepared before the door is lifted off the lower hinge. Loosen the tubing clamps and disconnect the coupling nut. Remove the left tubing nut from the fill tubing. Remove the tubing cover attached to the bottom of the lower hinge. Pull the tubing forward so it will pass through the hinge thimble as the door is being removed.



## Door Removal - TOP HINGE - Freezer Door

The freezer door is removed the same as the fresh food door on non-dispenser models, but on dispenser models, wiring harnesses at the top hinge must be disconnected. With the door closed, remove the top hinge cover, disconnect the wiring harnesses and remove the top hinge screws. Lift the door off the bottom hinge and pull the water tubing through the hinge pin.

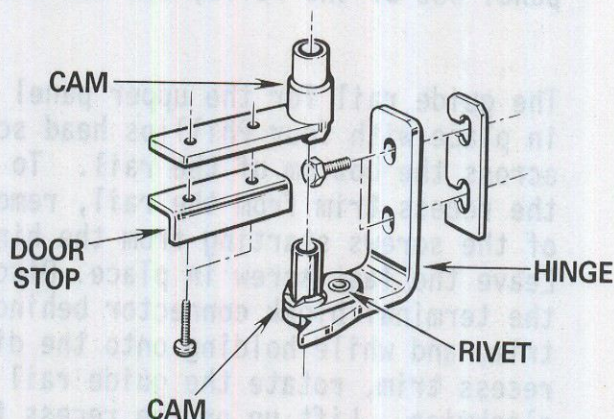


## Door Closure Cams

The closure cams used on the Monogram Models are similar to the ones used on standard side-by-side models. The lower hinge cam is riveted onto the lower hinge, accordingly if it is to be replaced the rivet must be drilled out of the hinge. The upper closure cam fits over the lower hinge thimble and inserts into the door flange.

## Door Stops

The door stop bracket is mounted on the bottom of the upper cam riser and into the bottom of the door flange. The door stop is part of the door hinge and stops the door opening at approximately 130°.





# MONOGRAM REFRIGERATORS

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## Dispenser

The dispenser models are also equipped with electronics. The electronics on the Monogram models are the same as standard side-by-side models.

The electronics portion of the system is included as a separate Mini-Manual along with the Mini-Manual for the cabinet assembly and is in the same envelope. Reference Mini-Manual page 435 for electronic control console removal, status check list, and control board connections.

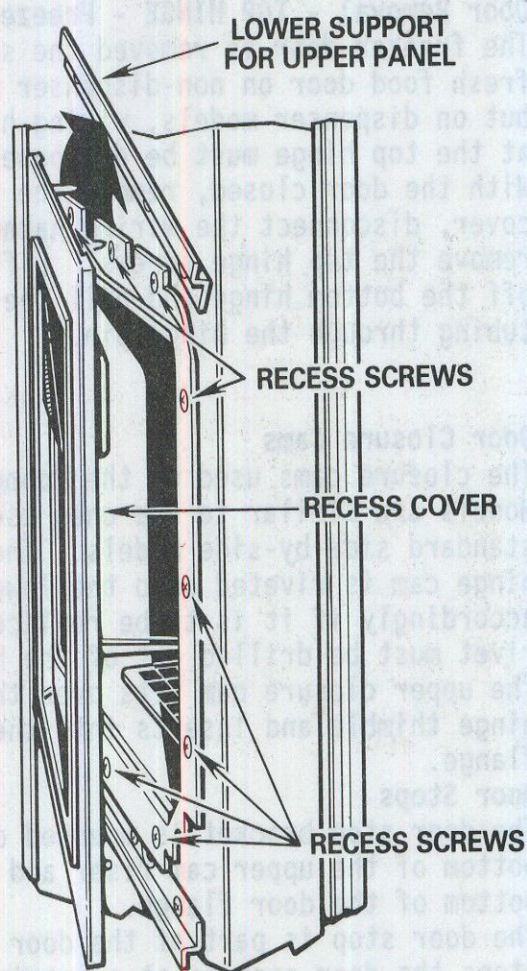
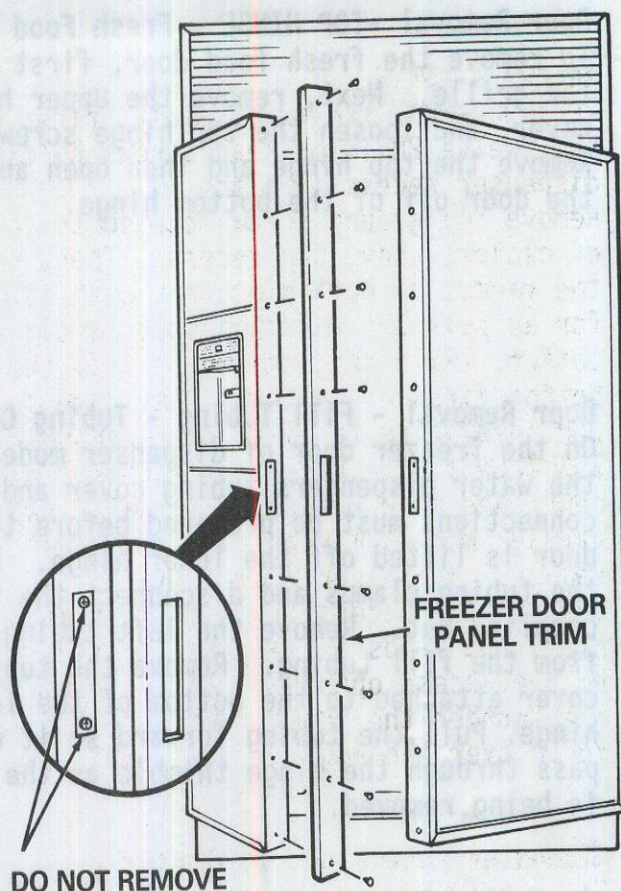
## Recess Trim Removal

To remove the dispenser recess from the freezer door, first remove the freezer door handle which also serves as trim and insert panel rail. The handle is held in place with 8 Phillips head screws. Care must be taken when removing this handle to avoid scratches. Do not remove the door sensor from the door.

## Recess Front Trim (frame) Removal

After removing the handle, the recess trim (frame) must be pried loose from the outer door. The trim is held in place with double-back tape. Using a putty knife, pry the trim forward away from the door, work down the inside of the trim, pushing back the double-back tape. The trim also has guide posts which slide out easily. After the trim has been pried loose from the tape, it is still held in place by the door side trim and the upper and lower insert panel guide rails. Slide the upper insert panel out of the rails, and set it aside.

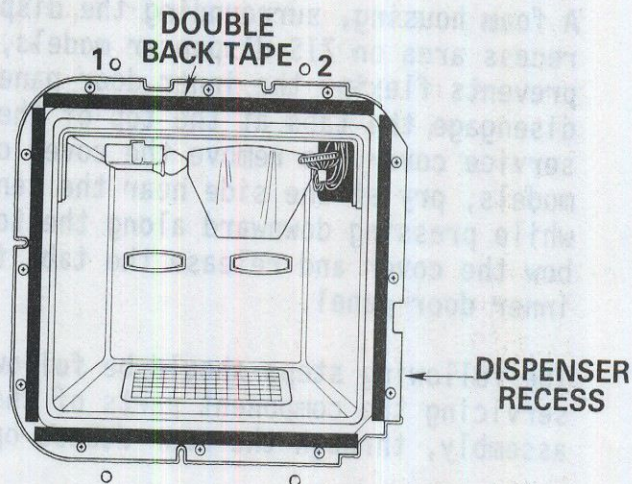
The guide rail for the upper panel is held in place with four Phillips head screws across the bottom of the rail. To remove the recess trim from the rail, remove three of the screws starting from the hinge side. Leave the last screw in place. Disconnect the terminal block connector behind the trim, and while holding onto the dispenser recess trim, rotate the guide rail clockwise. Lift up on the recess trim and rotate it out of the side trim. Reassembly is in the reverse order.





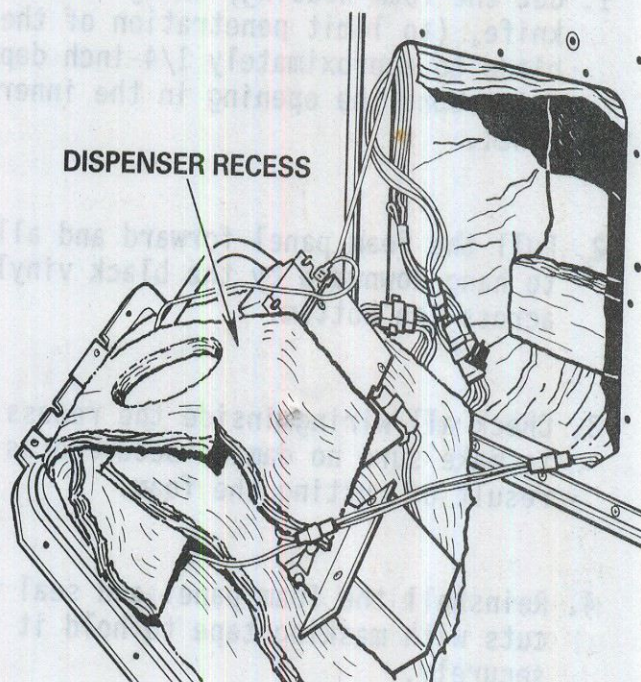
### Recess Removal

To remove the recess assembly, first remove the twelve Phillips head screws holding the dispenser recess in place. Remove the ground screw located to the left of center, above the recess. Then, grasp the recess on both sides and push it up as far as possible and then pull it out at the bottom. Pull the recess out from the bottom first - - allowing the time delay and insulation to clear the opening. On ZIS models, the recess is equipped with a newer and more compact time delay than earlier models making recess removal easier. The older time delay is the lowest part on the recess (inside the freezer door) and tends to hang on the lower part of the recess opening. If this occurs, reach under the recess and pull the time delay over the edge.



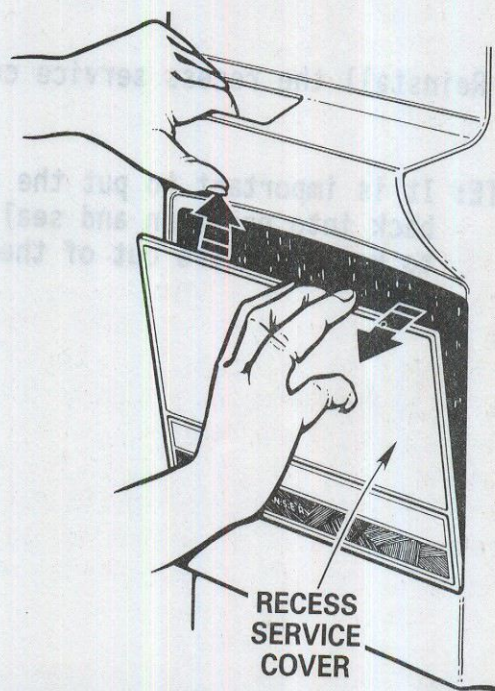
### Dispenser Recess out of Cavity

The repair procedures are the same as standard side-by-side models once the recess is out of the cavity.



### Recess Service Cover - BISB/W42 E models

On BISB/W42 E models, most of the recess components can be reached after removing the recess service cover. The service cover has tabs at the top and hooks along the bottom that engage the inner door panel. When removing the cover, care must be taken to avoid breaking the tabs and/or hooks. Press upward on the inner door panel, just above the cover, while pulling outward on the top of the cover with the fingertips. This will flex the inner door panel enough to disengage the tabs. Then, the cover can be removed by lifting upward to disengage the hooks.





# MONOGRAM REFRIGERATORS

## 1988 THRU 1991 MODELS

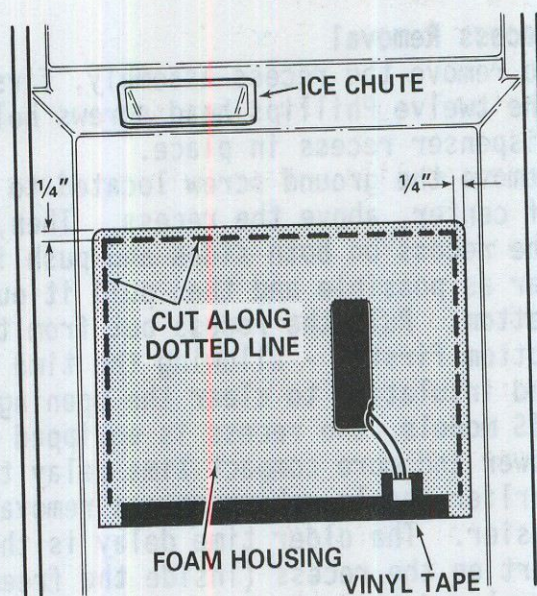
### Recess Service Cover - ZISB/W42 E models

A foam housing, surrounding the dispenser recess area on ZIS dispenser models, prevents flexing the inner door panel to disengage the tabs at the top of the service cover. To remove the cover on ZIS models, pry at one side near the center while pressing downward along the top to bow the cover and release the tabs from the inner door panel.

The following steps should be followed when servicing the component parts of the recess assembly, through the rear access opening.

1. Cut the foam housing, using a utility knife, (to limit penetration of the blade to approximately 1/4-inch depth). Cut around the opening in the inner door panel.
2. Pull the foam panel forward and allow it to hang downward by the black vinyl tape across the bottom.
3. Check all wiring inside the recess area to make sure no damage occurred as a result of cutting the foam.
4. Reinstall the foam panel and seal the cuts with masking tape to hold it securely.
5. Reinstall the recess service cover.

**NOTE:** It is important to put the foam panel back into position and seal with tape to keep moisture out of the recess area.





# MONOGRAM REFRIGERATORS

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## FIELD CORRECTIONS

Adapter Plugs - Bench Testing	PAGE P30
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Condenser Tilt - Poor Refrigeration	P31
Damper Control Replacement	P32
Damper Control Bracket	P32
Damper Control Operation	P33
Dispenser Recess Foam Housing	P33
Door Cams Breaking	P34
Door Gasket Scrubbing	P34/35
Door Hinge Squeak - Trim Rubbing	P35
Door Miters	P35
Door Popping Open - Vent tube	P33
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Drain Tube Misalignment	P33
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Evaporator Housing - Gasket Seal	P38
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Fill Tubing Blow off kit	P36
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Moisture - Mullion	P37
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Moisture - Evaporator Housing	P37
Moisture - Door Gasket	P37
Moisture - Cabinet Side	P37
Moisture Kit Parts	P37
Water Tank Freezing	P38



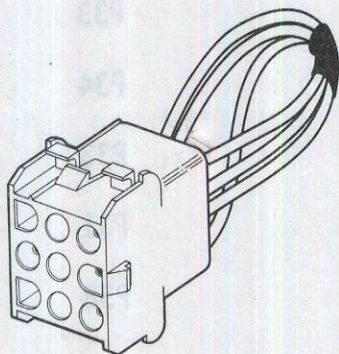
# MONOGRAM REFRIGERATORS

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## ADAPTER PLUGS - Bench Testing

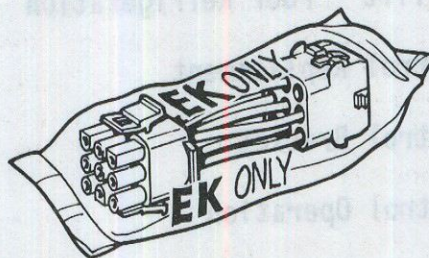
To bench test the refrigeration unit, once removed from the cabinet assembly, an adapter plug will be needed. Adapter plugs for the various models are: BCS42EK -- WR97X0240, BCS42CK & EL AND ZIS42CM & EM -- WR97X241. The plug is wired so the refrigeration unit will operate independently of the temperature control, therefore the compressor will run continuously while the unit is under power.

The adapter plug connects to the refrigeration unit wiring harness located on the left side of the refrigeration unit. The power cord should then be plugged into a 115 VAC outlet. No other appliance should be in the circuit.



## ADAPTER PLUG - MOISTURE KIT

An adapter plug is provided in the Moisture Kit and should be used on EK models ONLY. The plug is designed to energize the freezer case heaters only when the compressor is running.

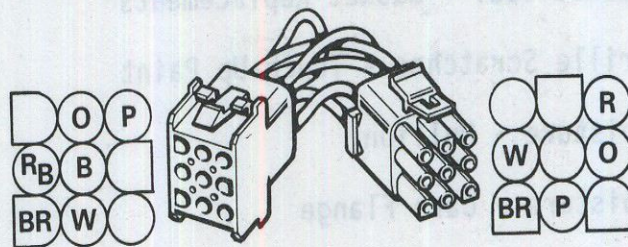


## MOISTURE KIT Adapter Plug - EK MODELS

Note: On some Moisture Kits, the adapter plug may be wired incorrectly. A symptom of a miswired connector would be an inoperative compressor and components. The plug should be wired according to the following diagram.

### LEGEND

- R<sub>B</sub> = RED WITH BLACK JUMPER
- B = BLACK JUMPER
- O = ORANGE
- P = PURPLE
- BR = BROWN
- W = WHITE



## WIRING FOR EK ADAPTER PLUG

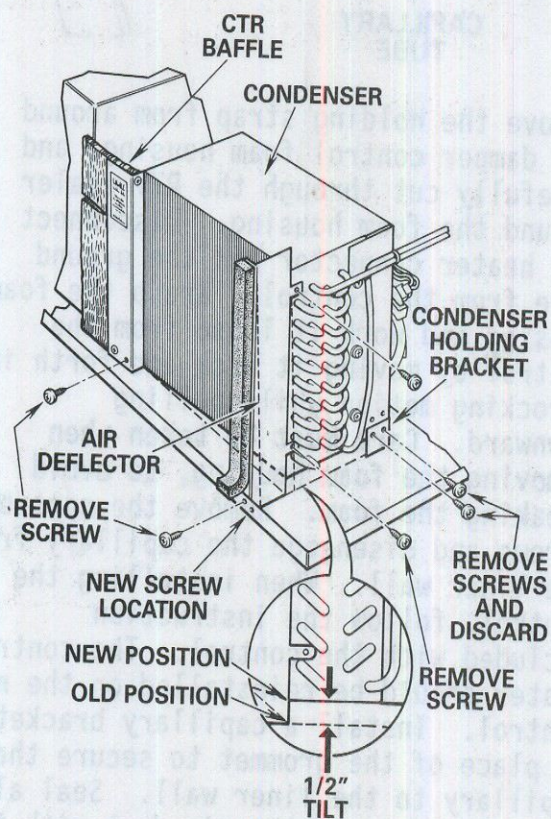


# MONOGRAM REFRIGERATORS

1988 THRU 1991 MODELS

## CONDENSER TILT - POOR REFRIGERATION

A mysterious, poor refrigeration complaint on some Monogram, **BISB/W 42 EL** and **ZISB/W 42 EM** model refrigerators, produced prior to **August 1990**, may be due to the size of the condenser and the air circulating through the condenser. Good indicators that this is the problem are: (1) the top passes of the condenser will be abnormally cool, and (2) the refrigeration system low side pressure will be in a slight vacuum (giving the symptom of a leak, restriction). To confirm the diagnosis, unplug the condenser fan. Within two to three minutes the top passes of the condenser should begin to feel warm and the system pressure should begin to rise. On these models, include this test as part of the sealed system diagnosis and try this first. It could save considerable time and prevent misdiagnosis. To correct this condition, the condenser must be raised approximately 1/2-inch at the right side, resulting in a tilted position.

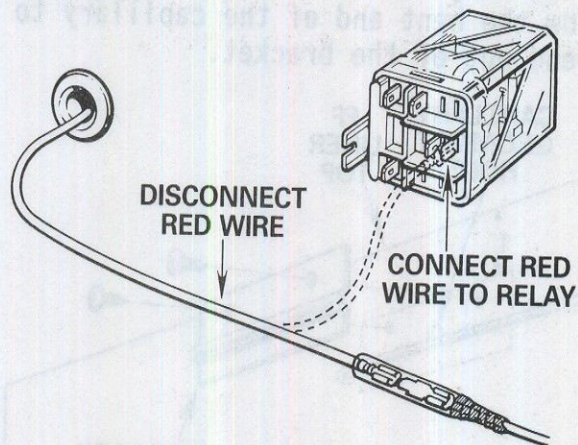


Tilted Condenser

First, remove the air deflection bracket located on the right side of the condenser. Then remove the two screws from the condenser holding bracket at the right rear of the condenser, and discard it. Next, remove the lower right screw from the center access baffle. This allows the condenser to be tilted upward at the right side. Then, rotate the air deflection bracket 180 degrees (top to bottom) and reinstall the two side screws. The bracket will hold the condenser approximately 1/2-inch. Finally, drill a 3/32-inch hole through the base and the air deflection bracket and install a screw into this hole to secure the condenser.

## EVAPORATOR FAN RELAY

Early non-dispenser **CK-B** and dispenser **EL-B&C** models, could be wired to allow the evaporator fan to run continuously. By connecting a relay in series with the evaporator fan and fan delay, the evaporator fan will run continuously except during the defrost cycle. The relay, although not connected, is included inside the wiring enclosure of the refrigeration unit. The relay is only needed if a warm temperature complaint should arise on these models. A special in-line wire connector is provided to change the wiring to accommodate the relay. The replacement part number for the relay is **WR07X0193**. To connect the relay, the refrigeration unit must be removed from the cabinet assembly.



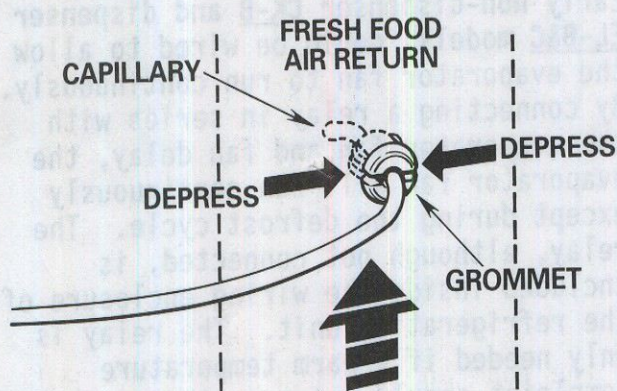


# MONOGRAM REFRIGERATORS

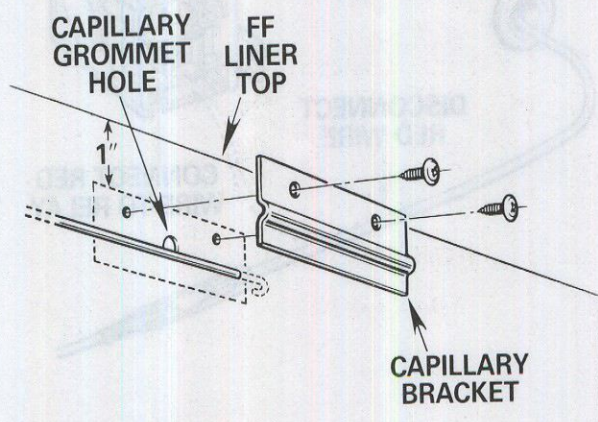
1988 THRU 1991 MODELS

## DAMPER CONTROL BRACKET

A cold temperature complaint on **BISB/W42 EK or EL** models may be due to the fresh food damper control not sensing the correct temperature. To correct this problem install a **WR09X0445** control and/or a **WR02X8253** bracket. If the control capillary tip is embedded in the liner wall install the **WR02X8253** bracket. Remove the fresh food light shield and disengage the capillary tube from the liner wall by removing the grommet holding it in place. The capillary has a slight bend at the end to keep it inside the grommet. The grommet can be removed by depressing the tabs and then pulling it out of the hole. Discard the grommet. Install the bracket per the instructions provided in the kit.

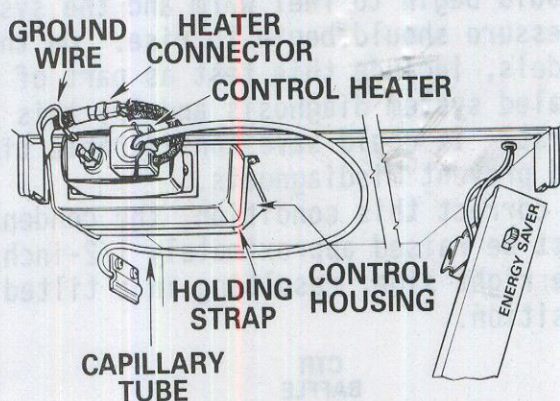


If the original control is being reused, allow the bent end of the capillary to extend out of the bracket.



## DAMPER CONTROL REPLACEMENT

To replace the damper control, remove the fresh food light shield. Remove the energy saver switch bracket screw and the fresh food control knob. Remove the control panel. The control panel snaps into a channel at the rear edge and must be pried free. Place a screw driver in the hole where the control knob was removed and pry the control panel forward. Let the control panel hang free on the right side of the compartment or disconnect the leads to the energy saver switch and place the panel aside while replacing the control.

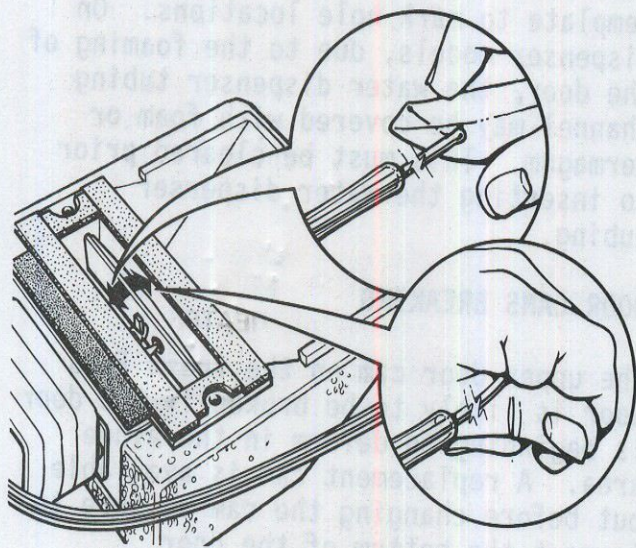


Remove the holding strap from around the damper control foam housing, and carefully cut through the RTV sealer around the foam housing. Disconnect the heater connector and the ground wire from the control. Grasp the foam housing and work it loose from the control by moving it back and forth in a rocking motion while pulling downward. Care must be taken when removing the foam housing, to avoid breaking the foam. Remove the control screws and disengage the capillary from the liner wall. When installing the control, follow the instruction included with the control. The control heater should be reinstalled on the new control. Install a capillary bracket in place of the grommet to secure the capillary to the liner wall. Seal all contact points of the air duct with the liner, and around the control and air duct with RTV sealer. Reinstall the control panel and light shield.



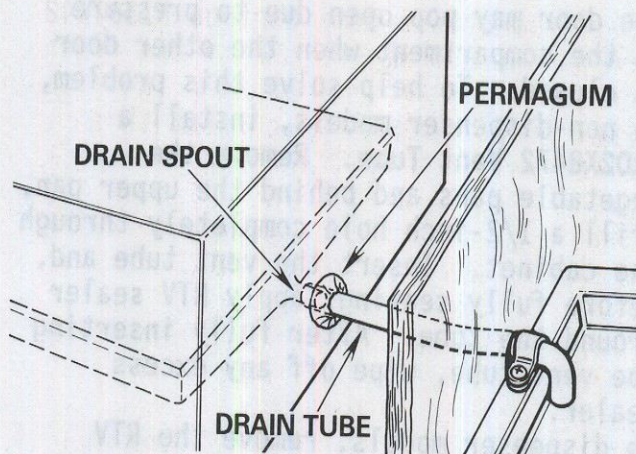
## DAMPER CONTROL OPERATION

The operation of the damper control can be tested by holding an ice cube in contact with the exposed end of the capillary. The damper should slowly close in response to the cold temperature of the ice cube. Then, by grasping the end of the capillary by hand, the damper should open.



## DRAIN TUBE MISALIGNMENT

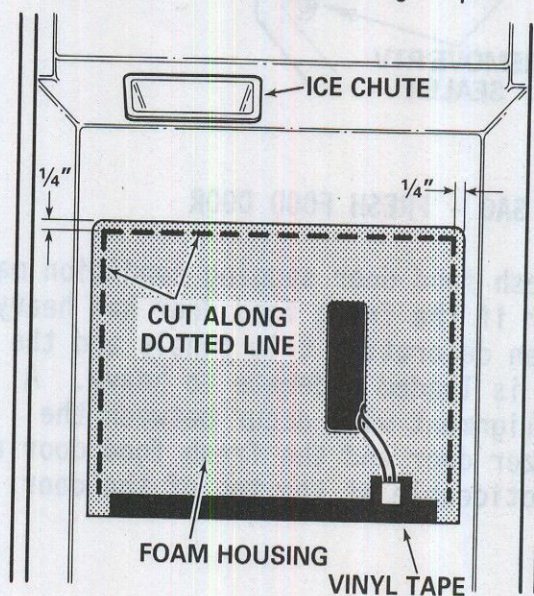
An unusual amount of water in the bottom of the fresh food compartment may be due to a loose or misaligned drain tube. The defrost water will drip down the fresh food air return duct rather than into the drain pan. Very clear, clean water will accumulate at the bottom of the fresh food air return louvers and on the compartment floor. After several defrost cycles, this drain water will accumulate and drain out the bottom of fresh food liner and onto the floor. Reposition the drain tube on the drain spout and seal around it with permagum.



Drain Tube Location

## DISPENSER RECESS FOAM HOUSING

A dispenser recess foam housing is used on models in production after August, 1990. The housing completely surrounds the dispenser mechanism inside the freezer inner door to help eliminate moisture problems in this area. Component parts are not accessible with the rear access cover removed without cutting a window in the foam housing. Cut the housing as shown below, using a utility knife and limit the penetration of the foam to 1/4-inch in depth. Pull the panel forward and allow it to hang by the vinyl tape. Reseal the foam housing window with masking tape.





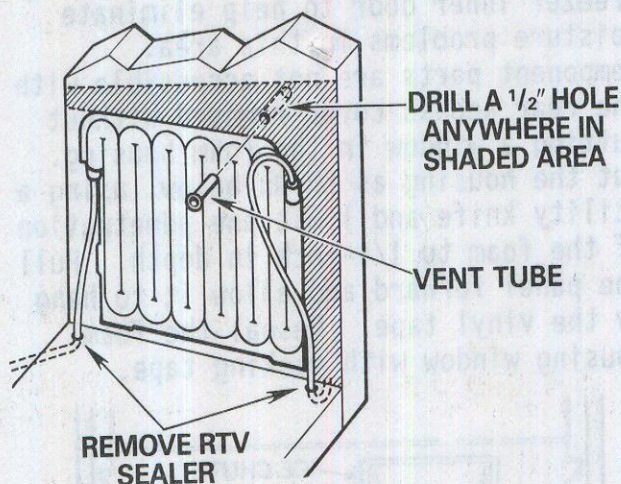
# MONOGRAM REFRIGERATORS

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## DOORS POPPING OPEN - Vent Tube

One door may pop open due to pressure in the compartment when the other door is closed. To help solve this problem, on non-dispenser models, install a **WR02X8472 Vent Tube**. Remove the vegetable pans and behind the upper pan, drill a 1/2-inch hole completely through the cabinet. Insert the vent tube and, before fully seating, apply RTV sealer around the tube. After fully inserting the vent tube, wipe off any excess sealer.

On dispenser models, remove the RTV sealer from the water reservoir tubing holes. The holes are located in the fresh food compartment floor near the reservoir. Pull up on the tubing and the RTV sealer will pull out of the holes. Install a **WR02X8472 Vent Tube** behind the upper vegetable pan, above the water dispenser reservoir. Seal around the vent tube with RTV sealer, before seating the tube in the hole.



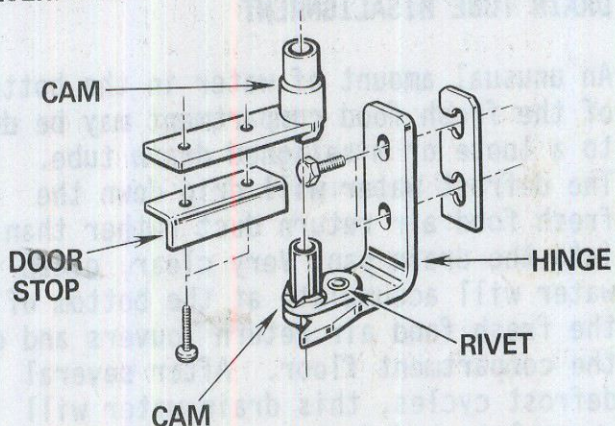
## DOOR SAG - FRESH FOOD DOOR

A fresh food door sagging condition may occur if the fresh food door has heavy wooden decorative trim panels and the door is loaded moderate to heavy. A misalignment will occur between the freezer door and the fresh food door and is noticeable at the top of the door.

The weight is causing the bottom of the door flange to collapse in the hinge area and to correct this condition a new door must be installed. Order replacement part number **WR78X8154** for non-dispenser models and **WR78X8053** for dispenser models. All of the door accessories will have to be exchanged from one door to the other. Trim screw holes may also need to be drilled. If this is the case, use the trim as a template to mark hole locations. On dispenser models, due to the foaming of the door, the water dispenser tubing channel may be covered with foam or permagum. This must be cleared prior to inserting the water dispenser tubing.

## DOOR CAMS BREAKING

The upper door cam on the fresh food door is likely to be broken if the door is beginning to deform in the hinge area. A replacement cam is available but before changing the cam be sure to inspect the bottom of the door carefully for signs of damage. The replacement cam part number is **WR02X7878**.



## DOOR GASKET SCRUBBING

Doors staying open, can sometimes be caused by a door gasket scrub condition on the hinge side of the door. Door gasket scrubbing at the hinge side can be corrected with an application of paraffin wax. Rub a piece of pure paraffin on the sealing surface of the gasket - from top to bottom (once or twice) - to uniformly coat the gasket with a film of wax.



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Paraffin wax is preferred over petroleum jelly, because it last longer between applications and is less noticeable when applied.

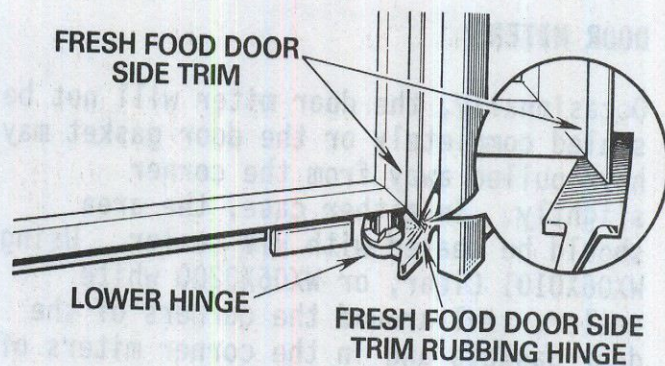


A scrubbing condition can eventually cause the sealing surface of the gasket to fold over and bind the door - preventing it from closing and/or sealing. If this occurs:

1. Warm the entire length of the gasket with a heat gun. (Due to the intense heat from the heat gun, care must be taken to avoid melting the gasket.)
2. Reform the gasket to its original position while it is warm.
3. After the gasket has cooled, coat the gasket sealing surface with paraffin wax.
4. Check for a smooth wiping action as the door is closed and opened.
5. Advise the customer that the wax is necessary to keep the gasket from binding and should not be removed.

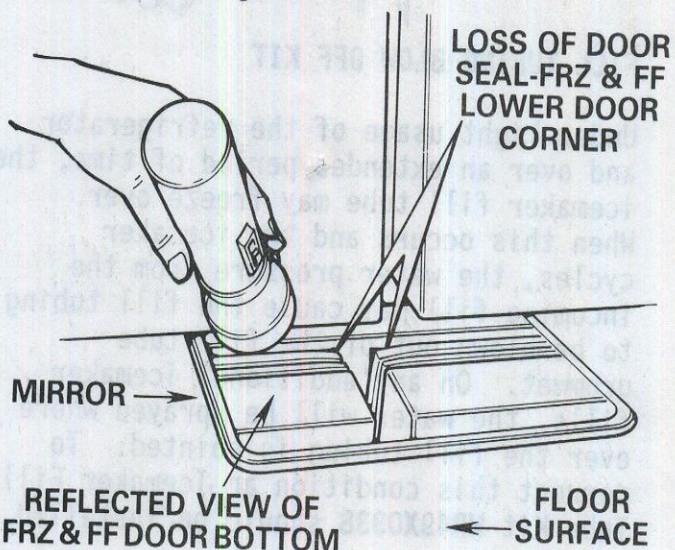
## DOOR HINGE SQUEAK - Trim Rubbing

A loud squeaking noise can be caused by the fresh food door side trim rubbing against the lower hinge. To correct this problem the door must be removed and the side trim filed off at the bottom in order to increase the distance between the door side trim and the hinge.



## GASKET SEAL - Gasket Replacement

On models produced prior to August 1990, door gaskets were used that sealed the door when first assembled but under load conditions sometimes lose seal at the lower front corners. One method to check the bottom door seal of both the freezer and the fresh food door, is to place a mirror under the door edge and look up along the length of the gasket.



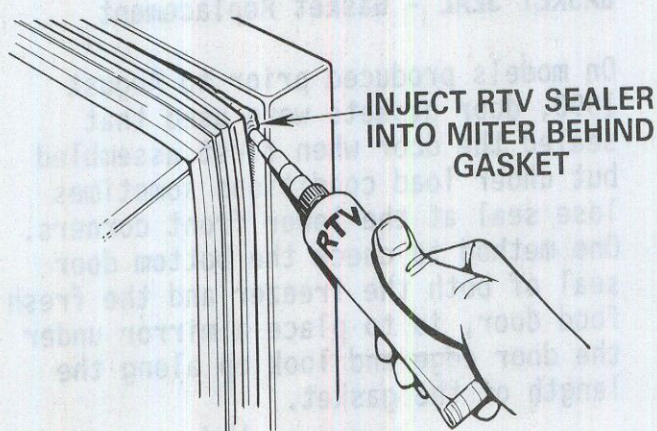
A flashlight can be used to light the gasket by directing the light beam into the mirror and reflecting the light onto the gasket. A gap in the gasket will be observed using this method. To correct the gap at the bottom of the door, order a replacement gasket (WR24X0492 freezer door gasket, WR24X0493 fresh food door gasket). When a new gasket is installed, heat should be applied to the gasket to make it more pliable to push into the breaker channel. A light coat of paraffin wax should also be applied to the hinge side of the gasket to prevent gasket scrub.



# MONOGRAM REFRIGERATORS

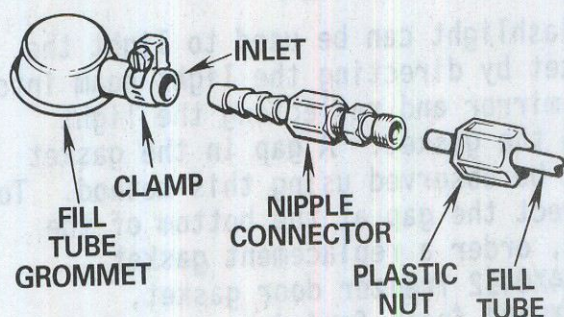
## DOOR MITERS

Occasionally, the door miter will not be sealed completely or the door gasket may have pulled away from the corner slightly. In either case, the area should be sealed with RTV sealer. Using WX06X0101 Clear, or WX06X0200 white sealer, seal around the corners of the door gaskets and in the corner miters of the door.



## FILL TUBING BLOW OFF KIT

Under light usage of the refrigerator and over an extended period of time, the icemaker fill tube may freeze over. When this occurs and the icemaker cycles, the water pressure from the incoming fill may cause the fill tubing to be blown out of the fill tube grommet. On any additional icemaker fills, the water will be sprayed where ever the fill tubing is pointed. To correct this condition an Icemaker Fill Tube Kit WR49X0338 should be installed.

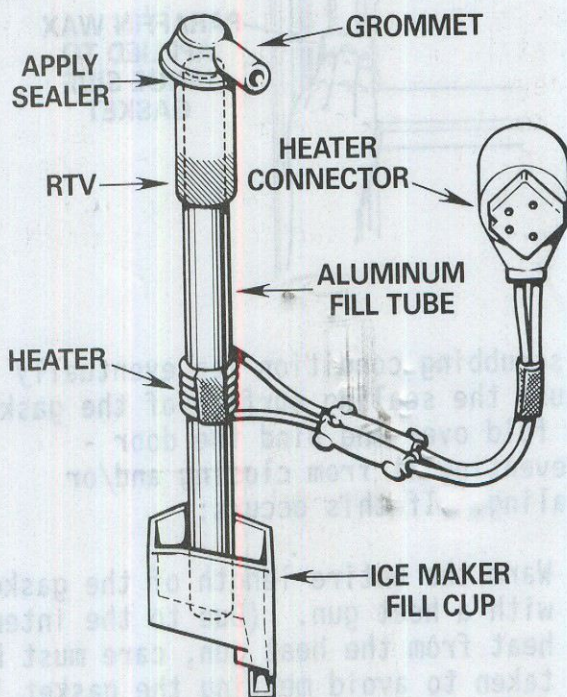


The kit includes a brass nipple connector which inserts in the fill tube grommet inlet and is held with a screw clamp. A plastic nut fits over the end of the fill tubing and is attached to the nipple connector.

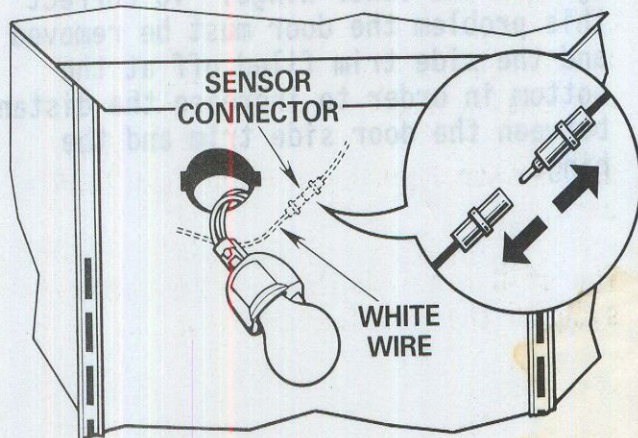
# 1988 THRU 1991 MODELS

## FILL TUBE HEATER KIT

To prevent fill tube freezing, a fill tube heater can be installed. A WR49X0339 Fill Tube Heater Kit is available and complete instructions for installing the parts are included in the kit.



On dispenser models, the electronic current sensor must be disabled when installing the fill tube heater. The connection for the sensor is behind the freezer partition and can be located and disconnected after removing the freezer light shield, freezer light bulb, and light socket. Reach into the light socket hole and pull out the white wire. The icemaker current sensor is connected to this white wire. Disconnect the sensor connector, tape over the ends with electrical tape, reinsert the wire behind the partition and reinstall the other components that were disassembled.





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## GRILLE SCRATCHES - TOUCH-UP PAINT

Touch-up paint which matches the gray color of the Monogram Front Grille is available in a small applicator bottle. The WR97X0242 touch-up paint is packaged in a bottle with a thin brush applicator cap. Clean and dry the area where the paint is to be applied for proper adherence to the surface. Vigorously shake the bottle before opening to mix the paint thoroughly. Once the cap is removed, the paint can be applied directly to the surface of the grille.



WR97X0242 TOUCH-UP PAINT

## MOISTURE

Moisture accumulation (sweating) on the exterior and in the fresh food compartment of Monogram Refrigerators can be attributed to several causes. Before attempting to correct a sweating condition, several areas of the refrigerator should be inspected as follows:

Mullion and Case Flanges - especially the bottom flanges.

Evaporator Housing - front and left side.

Top of Cabinet Assembly - on the left side of the refrigeration unit.

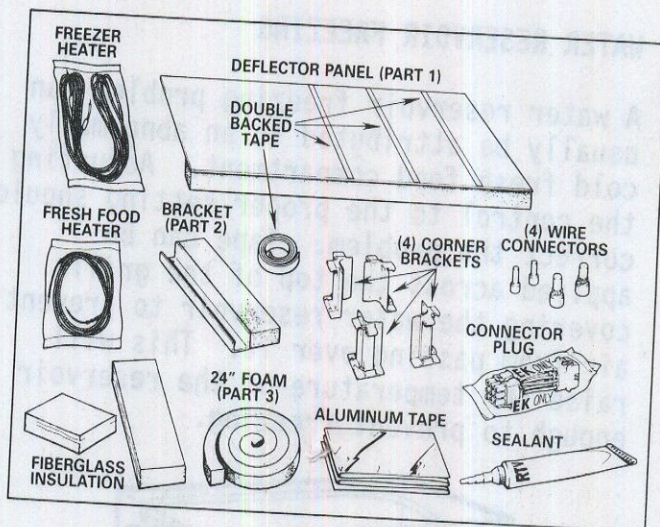
Top Trim piece - of the cabinet assembly.

Door gaskets -

Left side of the refrigerator -

Front of freezer door - around dispenser recess area.

If moisture (sweating) occurs in any of these areas, the WR49X0321 Moisture Kit should be installed.



## Moisture Kit Contents

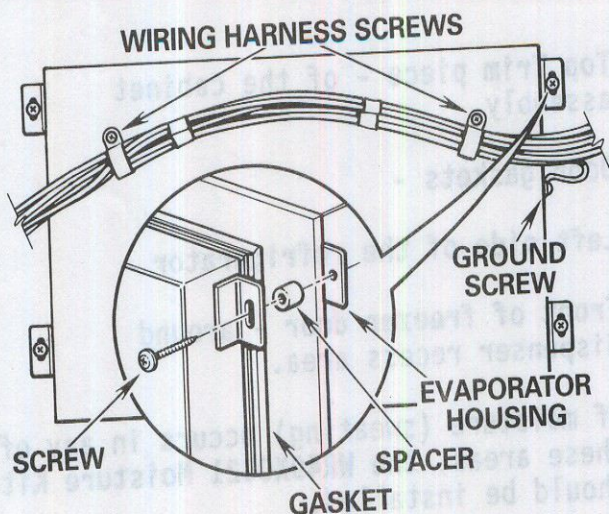
## EVAPORATOR HOUSING - Gasket Seal

The evaporator housing cover has a gasket that seals the area inside the housing from the outside air. The cover is held in place by four brackets on the door which mate with four brackets on the housing. Plastic spacers are used between the brackets to ensure the proper spacing. If the cover is removed, occasionally the gasket will not seal properly when the cover is reinstalled. A longer than normal run time can be expected and moisture will accumulate on the evaporator housing at the source of the leak. To correct this problem, remove the spacers and tighten the screws down until the leak is stopped. Be sure to tighten the screws equally to uniformly seat the gasket.



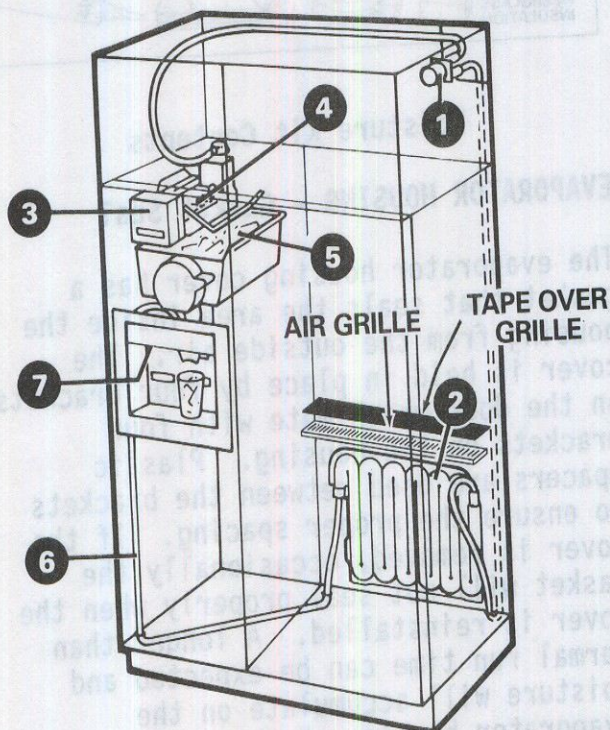
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## WATER RESERVOIR FREEZING

A water reservoir freezing problem can usually be attributed to an abnormally cold fresh food compartment. Adjusting the control to the proper setting should correct the problem. Tape can be applied across the top of the grille covering the water reservoir to prevent air from passing over it. This will raise the temperature of the reservoir enough to prevent freezing.





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NOTES







