

600 Series

TECHNICAL SERVICE/TRAINING MANUAL (ADDENDUM)

For units starting with serial #1810000

NOTE: Installation Information (Section 2),
Sealed System Information (Section 4).
Air Flow and Fan Blade Spacing (Section 5),
Icemaker Information (Section 6),
and Parts Lists Section (Section 8)
in this addendum manual apply regardless of serial number

SECTION 1

GENERAL INFORMATION

For units starting with serial #1810000

NOTE: Installation Information (Section 2),
Sealed System Information (Section 4).
Air Flow and Fan Blade Spacing (Section 5),
Icemaker Information (Section 6),
and Parts Lists Section (Section 8)
in this addendum manual apply regardless of serial number



INTRODUCTION

This 600 Series Technical Service/Training Manual Addendum has been compiled to provide the most recent information on safety, installation, set-up, design, operation, features, troubleshooting, wiring diagrams, and repair procedures of 600 Series units, starting with serial #1810000. This information will enable the service technician to troubleshoot and diagnose malfunctions, perform necessary repairs, and return a 600 Series unit to proper operational status.

The service technician should read the complete instructions contained in this addendum before initiating any repairs on a 600 Series unit, starting with serial #1810000.

IMPORTANT SAFETY INFORMATION

Below are the Product Safety Labels used in this manual. The "Signal Words" used are **WARNING** or **CAU-TION**.

When reviewing this manual, please note these different Product Safety Labels placed at the beginning of certain sections of this manual. You must follow the instructions given in the boxes below the Product Safety Labels in order to avoid personal injury and/or product damage.

The sample Product Safety Labels below illustrate the precautions that should be taken when the signal word is observed.

A WARNING

INDICATES THAT HAZARDOUS OR UNSAFE PRAC-TICES COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH

A CAUTION

Indicates that hazardous or unsafe practices could result in minor personal injury or product and/or property damage

In addition, please pay attention to the signal word "NOTE", which highlights information that is especially important for the topic being covered.

TECHNICAL ASSISTANCE

If you should have any questions regarding the 600 Series and/or this manual, please contact:

Sub-Zero Freezer Company, Inc. ATTN: Service Department P.O. Box 44988 Madison, WI 53744 - 4988

Customer Service & Parts / Warranty Claims Phone #: (800) 222 - 7820

> Technical Assistance Phone #: (800) 919 - 8324

Customer Service & Technical Assistance Facsimile #: (608) 441 - 5887

> Parts / Warranty Claims Facsimile #: (608) 441 - 5886

Service Department E-Mail Address: customerservice@subzero.com

Office Hours: 7:00 AM to 7:00 PM Central Time Monday through Friday

This manual is designed to be used by Authorized Service Personnel only. Sub-Zero Freezer Co., Inc. assumes no responsibility for any repairs made on Sub-Zero refrigeration units by anyone other than Authorized Service Technicians.



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WARRANTY INFORMATION

This page contains a summary of the 2, 5 & 12 Year Warranty that is supplied with every 600 Series unit. This is followed by a summary of the two special warranties: The Non-Residential Warranty which applies to units installed in non-residential applications, and the Display/Model Home Warranty which applies to distributor or dealer display units and units in model homes, sold three years after date of manufacture. The last entries on this page are details and notes about the warranties.

TWO, FIVE & TWELVE YEAR Warranty Summary

- Two year TOTAL PRODUCT warranty, *parts and labor.
- Five Year SEALED SYSTEM warranty, **parts and labor.
- Sixth through Twelfth year LIMITED SEALED SYS-TEM warranty, sealed system **parts only.

ONE & FIVE YEAR Non-Residential Warranty Summary (Example: Office, Yacht, etc.)

- One Year TOTAL PRODUCT warranty, *parts and labor.
- Five year LIMITED SEALED SYSTEM warranty, sealed system **parts only.

ONE & FIVE YEAR Display/Model Home Warranty Summary (Display units sold three years after date of manufacture)

- One Year TOTAL PRODUCT warranty, *parts and labor.
- Five year LIMITED SEALED SYSTEM warranty, sealed system **parts only.

Warranty Details:

- * "Total Product Parts" includes, but is not limited to the following:
 - Electronic Control System Components, Fan & Light Switches, Fan Motors & Blades, Defrost & Drain Heaters, Defrost Terminator, Drain Pan, Drain Tubes, Wiring, Light sockets & bulbs, Icemaker, Water Valve, Door hinges, Door closers & Cams, Compressor Electricals, etc. . .
- ** "Sealed System Parts" includes the following:
 Compressors, Condenser, Evaporators, Filter-Driers,
 Heat-exchangers, All Tubing that Carries the Freon.
 NOTE: Condenser Fan Motors, Freon, Solder and
 compressor electricals are NOT considered sealed
 system parts.

Warranty Notes:

- All warranties begin at the time of the unit's <u>initial</u> installation.
- All Warranty and Service information collected by Sub-Zero is arranged and stored under the unit serial number. This information is now also stored under the customer's last name. Sub-Zero requests that you have the model and serial number available whenever contacting the factory or parts distributor.
- The serial number tag on SIDE-BY-SIDE models is located by the top door hinge in the freezer compartment.
- The serial number tag on OVER-AND-UNDER models is located by the top door hinge in the refrigerator compartment.
- The serial number tag on ALL-REFRIGERATOR and ALL-FREEZER models is located by the top door hinge in the refrigeration compartment.

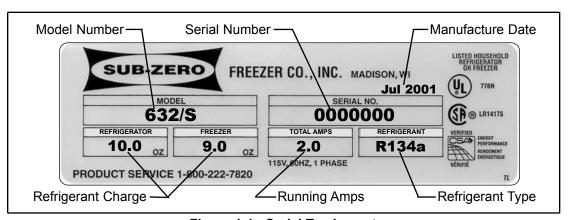


Figure 1-1. Serial Tag Layout



MODEL DESCRIPTIONS

These pages briefly describe the 600 Series. The 600 Series line consists of eleven basic model configurations (Models 601R, 601RG, 601F, 611, 611G, 632, 642, 650, 650G, 680, 690). There are three exterior esthetic variations in the 600 Series. The letter after the backward slash in the alpha-numeric model number indicates the exterior esthetic variation. ("/F" indicates a <u>Framed</u> look with the door trim visible, "/O" indicates that it is intended for the door panels to <u>Overlay</u> the door trim, and "/S" indicates that the unit is <u>Stainless Steel</u>.) There is also one model (model 601RG) which has a glass door.

NOTE: Functional parts are common to each model configuration, meaning the models 601R/F, 601R/O and 601R/S will utilize common functional parts, just as the models 601F/F, 601F/O and 601F/S will utilize common functional parts, and so on... For this reason, the backward slash and letter at the end of the model number will be used in this manual only when necessary.

The following lists contain the model numbers of the 600 Series with a brief description of each model. A diagram of the basic model configuration accompanies each list.

| MODEL | DESCRIPTION |
|--------|---|
| 601R/F | 36" Wide, All-Refrigerator, Framed Door Trim with Handle, Louver Grille 36" Wide, All-Refrigerator, Overlay Door Trim without Handle, Louver Grille 36" Wide, All-Refrigerator, Stainless Steel Door and Grille |
| 601R/O | 36" Wide, All-Refrigerator, Overlay Door Trim without Handle, Louver Grille |
| 601R/S | 36" Wide, All-Refrigerator, Stainless Steel Door and Grille |



Model 601R

| MODEL | DESCRIPTION |
|-----------|--|
| 601RG/F | 36" Wide, All-Refrigerator, Glass Door, Framed Door trim with Handle, Louver Grille |
| 601RHAG/F | |
| 601RG/O | 36" Wide, All-Refrigerator, Glass Door, Overlay Door Trim w/o handle, Louver Grille |
| 601RHAG/O | (Same as above with High Altitude Glass) |
| 601RG/S | 36" Wide, All-Refrigerator, Glass Door, Stainless Steel Door Wrap and Grille |
| 601RHAG/S | (Same as above with High Altitude Glass) |



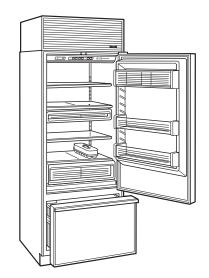
Model 601RG

| MODEL | DESCRIPTION |
|--------|--|
| 601F/F | 36" Wide, All-Freezer, Framed Door Trim with handle, Louver Grille 36" Wide, All-Freezer, Overlay Door Trim without handle, Louver Grille 36" Wide, All-Freezer, Stainless Steel Door and Grille |
| 601F/O | 36" Wide, All-Freezer, Overlay Door Trim without handle, Louver Grille |
| 601F/S | 36" Wide, All-Freezer, Stainless Steel Door and Grille |

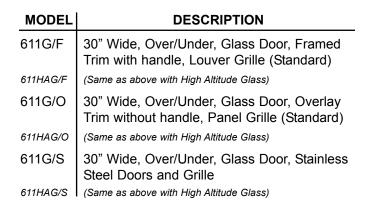


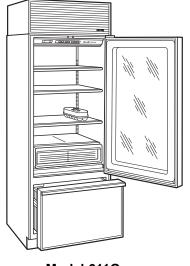
Model 601F

| MODEL | DESCRIPTION |
|-------|---|
| 611/F | 30" Wide, Over/Under, Framed Door Trim with handle, Louver Grille (Standard) |
| 611/O | 30" Wide, Over/Under, Overlay Door Trim without handle, Panel Grille (Standard) |
| 611/S | 30" Wide, Over/Under, Stainless Steel Doors and Grille |



Model 611





Model 611G

| MODEL | DESCRIPTION |
|-------|---|
| 632/F | 48" Wide, Side-by-Side, Framed Door Trim with handle, Louver Grille (Standard) |
| 632/O | 48" Wide, Side-by-Side, Overlay Door Trim without handle, Panel Grille (Standard) 48" Wide, Side-by-Side, Stainless Steel |
| 632/S | 48" Wide, Side-by-Side, Stainless Steel Doors and Grille |

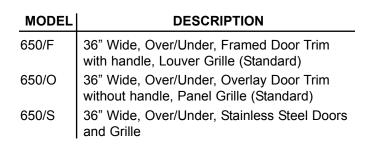


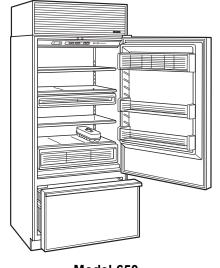
Model 632

| MODEL | DESCRIPTION |
|-------|---|
| 642/F | 42" Wide, Side-by-Side, Framed Door Trim with handle, Louver Grille (Standard) |
| 642/O | 42" Wide, Side-by-Side, Overlay Door Trim without handle, Panel Grille (Standard) |
| 642/S | 42" Wide, Side-by-Side, Framed Door Trim with handle, Louver Grille (Standard) 42" Wide, Side-by-Side, Overlay Door Trim without handle, Panel Grille (Standard) 42" Wide, Side-by-Side, Stainless Steel Doors and Grille |



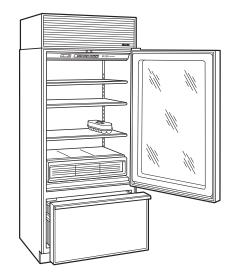
Model 642





Model 650

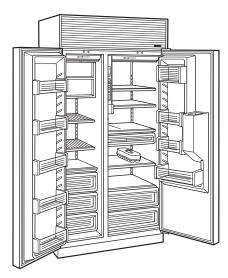
| MODEL | DESCRIPTION |
|----------|---|
| 650G/F | 36" Wide, Over/Under, Glass Door, Framed Trim with handle, Louver Grille (Standard) |
| 650HAG/F | (Same as above with High Altitude Glass) |
| 650G/O | 36" Wide, Over/Under, Glass Door, Overlay Trim without handle, Panel Grille (Standard) |
| 650HAG/O | (Same as above with High Altitude Glass) |
| 650G/S | 36" Wide, Over/Under, Glass Door, Stainless Steel Doors and Grille |
| 650HAG/S | (Same as above with High Altitude Glass) |



Model 650G

| MODEL | DESCRIPTION |
|-------|--|
| 680/F | 42" Wide, Side-by-Side, Ice & Water Dispenser, Framed Door Trim with handle, Louver Grille, (Standard) 42" Wide, Side-by-Side with Ice & Water Dispenser, Stainless Steel Doors and Grille |
| 680/S | 42" Wide, Side-by-Side with Ice & Water Dispenser, Stainless Steel Doors and Grille |

NOTE: There is no overlay variation for the model 680, but an optional panel grille is available.



Model 680

| MODEL | DESCRIPTION |
|-------|--|
| 690/F | 48" Wide, Side-by-Side, Ice & Water Dispenser, Framed Door Trim with handle, Louver Grille, (Standard) 48" Wide, Side-by-Side with Ice & Water Dispenser, Stainless Steel Doors and Grille |
| 690/S | 48" Wide, Side-by-Side with Ice & Water Dispenser, Stainless Steel Doors and Grille |

NOTE: There is no overlay variation for the model 690, but an optional panel grille is available.



Model 690

| General Information Notes | 600 Series SUB-ZERO |
|---------------------------|---------------------|
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SECTION 2

INSTALLATION INFORMATION



INSTALLATION CONSIDERATIONS

This section covers common installation issues seen by Service Technicians. Improper installation, though not a valid service issue, has the potential to lead to a call for service. Installation related complaints could include, but are not limited to: Unit leveling, unit movement, door misalignment, improper door and drawer sealing, internal frost or condensation, exterior condensation, warm compartment temperatures, etc.

NOTE: If additional installation information is needed, refer to the complete Installation Manual, or contact Sub-Zero Service Department.

▲ WARNING

UNIT COULD TIP UNDER CERTAIN LOAD CONDITIONS. FAILURE TO INSTALL ANTI-TIP COMPONENTS AND EXTEND LEVELERS TO FLOOR ACCORDING TO INSTALLATION MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.

Unit Leveling (All Models)

NOTE: Unit must be installed before leveling (See WARNING above). If unit is anchored to cabinets, remove anchor screws before leveling, reinstalled after.

To level a unit, first remove kickplate (See Figure 2-1). Then, to raise unit front, turn front leveler legs counterclockwise, clockwise to lower (See Figure 2-2). At front of unit base is an adjusting screw that reaches to rear leveler/roller assembly. To raise unit rear, use 5/16" socket wrench to turn adjusting screw clockwise to raise, counterclockwise to lower (See Figure 2-2).

NOTE: Level is best checked at top & side mainframe.

Door Adjustment (All Models)

NOTE: Unit must be level before adjusting doors.

If unit is properly installed, blocked and leveled, it may still be necessary to adjust door(s) left to right and/or in and out. Adjustments are performed at top and/or bottom door hinge(s). Two small Phillips head shipping screws in each door hinge must be removed and discarded before attempting adjustments. Then, working on only one hinge at a time, loosen and re-snug door hinge mounting screws, allowing door adjustment (See Figure 2-3). After adjusting door, tighten door hinge mounting screws and check for proper door seal.

NOTE: If one door on a side-by-side unit sits higher than the other, bottom hinge spacer (part #0183100) is available. To install spacer, remove shipping screws from bottom door hinge, then loosen hinge mounting screws. Insert spacer(s) between bottom door hinge and bottom door trim. Adjust door accordingly and retighten door hinge screws. (See Figure 2-4.)

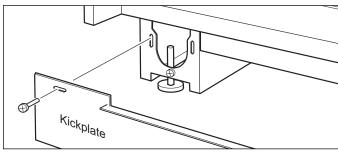


Figure 2-1. Kickplate Removal

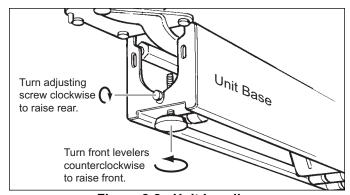


Figure 2-2. Unit Leveling

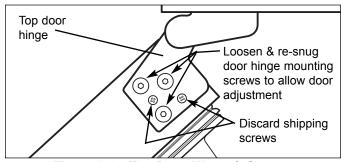


Figure 2-3. Top Door Hinge & Screws

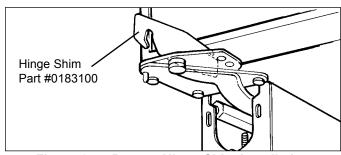


Figure 2-4. Bottom Hinge Shim Installation



Special Side-by-Side Door Adjustment

Occasionally after a side-by-side unit is properly installed, blocked and leveled, the refrigerator door top may stick out farther then the freezer door top, even though the bottom of each door is flush. The adjustment procedure listed below explains how to correct this. (For video showing this procedure, order part #3756530)

NOTE: Unit must be level before adjusting doors.

Special Side-by-Side Door Adjustment Procedure:

1. First - Adjust Refrigerator Door Bottom Hinge OUT:

- a. Extract shipping screws from refrigerator door bottom hinge. Then, loosen & re-snug bottom hinge mounting screws.
- b. Pull refrigerator door bottom hinge corner out to outer most limit & tighten hinge mounting screws.
 - **NOTE:** Check door gasket seal by refrigerator door bottom hinge. If gasket is not sealing, loosen & re-snug mounting screws, and push refrigerator door bottom hinge corner in slightly until gasket seals.
- c. Check door alignment. If refrigerator door top still sticks out farther then freezer door, perform second adjustment.

2. Second - Adjust Refrigerator Door Top Hinge IN:

- a. With a pencil, trace location of refrigerator door top hinge for reference. Extract shipping screws from refrigerator door top hinge, then loosen & re-snug top door hinge mounting screws.
- b. Push refrigerator door top hinge corner in to inner most limit & tighten hinge mounting screws.

NOTE: Check door gasket seal around refrigerator door. If gasket is not sealing, adjust accordingly.

c. Check door alignment. If refrigerator door top still sticks out farther then freezer door, perform third adjustment.

3. Third - Adjust Freezer Door Top Hinge OUT:

- a With a pencil, trace location of freezer door top hinge for reference. Extract shipping screws from freezer door top hinge, then loosen & re-snug top door hinge mounting screws.
- b. Pull freezer door top hinge corner out to outer most limit & tighten hinge mounting screws.
 - **NOTE:** Check door gasket seal by freezer door top hinge. If gasket is not sealing, loosen & re-snug mounting screws, and push freezer door top hinge corner in slightly until gasket seals.
- c. Check door alignment. If refrigerator door top still sticks out farther then freezer door, perform fourth adjustment.

4. Fourth - Adjust Freezer Door Bottom Hinge IN:

- a. Extract Phillips head shipping screws from freezer door bottom hinge. Then, loosen & re-snug bottom door hinge mounting screws.
- b. Push freezer door bottom hinge corner in to inner most limit & tighten hinge mounting screws.
 - **NOTE:** Check door gasket seal around freezer door. If gasket is not sealing, adjust accordingly.
- c. Check door alignment. Minor adjustments may still be needed at this point, adjust accordingly.

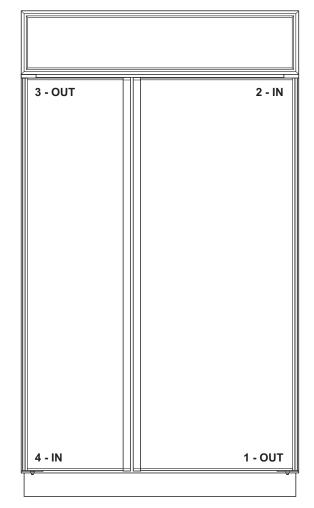


Figure 2-5. Special Side-by-Side Door Adjustment

Freezer Drawer Adjustments (Models 611/611G & 650/650G)

NOTE: Before attempting freezer drawer adjustment, remove freezer drawer assembly. Pull drawer assembly out, then lift at front while holding upper freezer basket in place. (See Figure 2-6)

Vertical Freezer Drawer Adjustment:

- a. Loosen two screws towards rear of each cabinet drawer slide, and extract screw at slide front. (See Figure 2-7)
- b. Relocate front screw to desired position in drawer slide insulator grommet (See Figure 2-7).
- After adjustment, tighten all screws, reinstall drawer assembly, then check door seal for proper gasket seating.

Freezer Drawer Front Pitch Adjustment:

- a. Remove two 3/4" white plastic plugs from each side of plastic drawer liner. (See Figure 2-8)
- b. With 3/8" socket, loosen bolts, then adjust drawer front pitch accordingly. (See Figure 2-8).
- c. After adjustment, tighten bolts and check door seal for proper gasket seating.

NOTE: If freezer drawer assembly has too much play from side-to-side, freezer drawer slide shims (part # 0232300 - front, part # 0232310 - rear) are available.

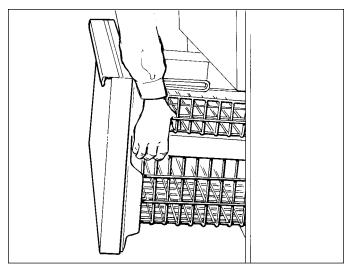


Figure 2-6. Drawer Assembly Removal

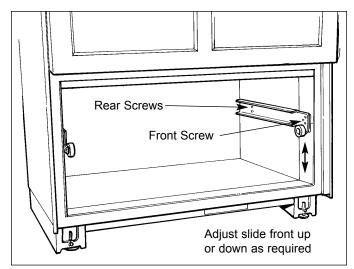


Figure 2-7. Vertical Freezer Drawer Adjustment

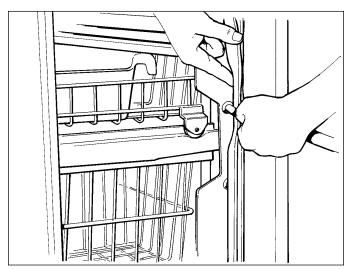


Figure 2-8. Drawer Front Pitch Adjustment



Door Panel Installation (All Models)

- a. Using piece of tape stuck to magnetic trim molding center, pull trim molding out at midpoint to expose handle/trim mounting screws (See Figure 2-9).
- b. Extract mounting screws and handle/trim from door (See Figure 2-10).
- c. Slide door panel into door frame (See Figure 2-11), then reinstalling handle/trim and magnetic trim molding.

NOTE: If door panel is less than 1/4" thick, a filler panel must be installed behind door panel.

NOTE: On Models 680 & 690, the handle inserts, trim fillers, vertical trim strip and glass well bezel will need to also be removed from door before sliding door panel into door frame.

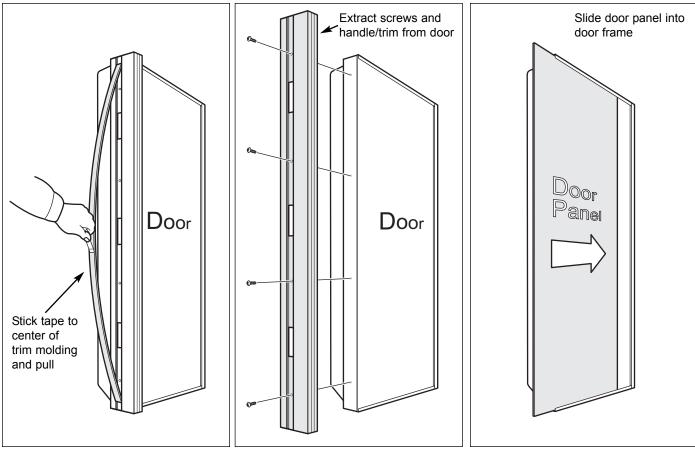


Figure 2-9. Molding Removal

Figure 2-10. Handle/Trim Removal

Figure 2-11. Door Panel Install

90° Door Stop Pin Installation (Models 611, 650)

Part #3550770, 90° Door Stop Pin, is supplied with models 611 and 650. To install:

- a Remove unit grille.
- b. With door closed, insert door stop pin down into threaded hole in top cabinet hinge and tighten (See Figure 2-12). Then, reinstall unit grille.

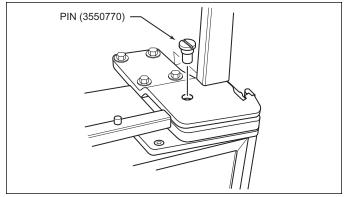


Figure 2-12. 90° Stop Pin (611, 650)

90° Door Stop Pin Installation (Models 611G, 650G)

Part #3550770, 90° Door Stop Pin, is supplied with models 611G and 650G. To install:

- a Open freezer drawer.
- b. Insert door stop pin up into threaded hole in lower cabinet hinge and tighten (See Figure 2-13).

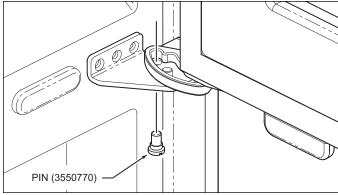


Figure 2-13. 90° Stop Pin (611G, 6501G)

90° Door Stop Cam Installation (Models 632, 642, 680, 690)

Optional 90° door stop cam (part # DS90) and 105° door stop cam (part # DS105) are available at no charge from Authorized Parts Distributors and Product Distributors. To install:

- a With door closed, place door stop cam up over hinge pin, making sure stub on cam fits into hole in lower cabinet hinge (See Figure 2-14).
- b. Secure door stop cam by pushing E-ring into groove at end of hinge pin (See Figure 2-14).

HINGE PIN 90° DOOR STOP CAM E-RING

Figure 2-14. 90° Stop Cam

90° Door Stop Cam Installation (Models 601R, 601RG, 601F)

Optional 90° door stop cam (part # DS90) and 105° door stop cam (part # DS105) are available at no charge from Authorized Parts Distributors and Product Distributors. To install:

- a With door closed, extract bolts, stiffener plate and bushing from lower cabinet hinge (See Figure 2-15).
- b. Place door stop cam up over hinge pin, making sure stub on cam fits into hole in lower cabinet hinge (See Figure 2-15).
- c. Reinstall bushing, stiffener plate and bolts onto lower cabinet hinge (See Figure 2-15).

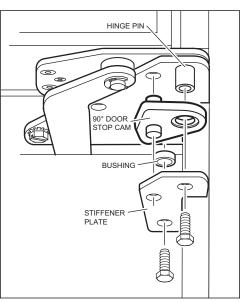


Figure 2-15. 90° Stop Cam

SECTION 3

ELECTRONIC CONTROL SYSTEM INFORMATION

For units starting with serial #1810000



ELECTRONIC CONTROL TERMINOLOGY & COMPONENT DESCRIPTIONS

All 600 Series units utilize an electronic control system. The electronic control system monitors, regulates and controls a variety of functions. The electronic control system also displays temperature readings, ice maker system operation, possible problems with the unit and door ajar alarm status. The table below defines some basic electronic control system terminology and describes some of the electronic control system components. An understanding of the following information is needed in order to comprehend the input operations and functions of the electronic control system.

| Term/Component | <u>Definition / Description</u> |
|---------------------------------|---|
| Control Board | The printed-circuit board (PC Board) containing the microprocessor, relays and electrical connections which control and monitor all functions and operations of the unit. |
| Microprocessor | . An electrical component on the control board which receives electrical signals from other components, processes that information, then sends an electrical signal to the relays on the board to open or close, and other electronic components in the unit to switch ON or OFF. |
| Relay | . The electrical components on the control board that switch other components in the unit ON and OFF when instructed to do so by the microprocessor. |
| LCD (Liquid Crystal Display) | That part of the control board seen at the control panel which displays compartment temperatures, service annunciators, error codes, etc |
| Control Panel Assembly | . The information input and read-out area of the electronic control system, located at the top of the refrigerator or freezer compartment. |
| Membrane Switch | . An integral part of the control panel assembly, which consists of the function keys used for all input operations to the electronic control system. |
| Keys (Function Keys) | . The buttons on the membrane switch used for input operations. The keys are: UNIT ON/OFF, DOOR AJAR ALARM BELL ON/OFF, ICE ON/OFF, WARMER, COLDER an on models 680 and 690 only there is a BULK ICE key. |
| Annunciators | .The words and numbers that are displayed on the LCD. Such as: Temperature displays, door ajar alarm bell indicator, SERVICE indicator, ICE system indicator and error codes. |
| Error Codes | . The code numbers accompanied by the letters "EC" that appear on the LCD during diagnostic mode if the unit experienced specific problems related to electrical signals supplied by electrical components. |
| Display Units of Measure | Temperatures displayed at the LCD may be in fahrenheit units of measure (°F) or celsius units of measure (°C). A series of key strokes allows the temperature display units of measure to be switched to read as either °F or °C. |
| Set-Point | . The desired compartment temperature, established by pressing the COLDER or WARMER keys. |
| High Offset (Cut-in) | As the compartment air temperature cycles up and down, the high offset is the maximum compartment temperature that the electronic control system will allow before calling for cooling. |
| Low Offset (Cut-out) | . As the compartment air temperature cycles up and down, the low offset is the minimum compartment air temperature that the electronic control system will allow before interrupting cooling. |
| Thermistor (Temperature Sensor) | A resistor with which resistance changes as the temperature around it changes. For electronic control system purposes, the microprocessor measures this resistance and displays it as a temperature reading at the LCD. |

BASIC 600 SERIES ELECTRONIC CONTROL SYSTEM

This page illustrates a basic 600 Series electronic control system (See Figure 3-1). Input operations for the electronic control system are performed at the membrane switch on the control panel, with monitoring, regulating and controlling functions taking place at the control board (located directly behind the control panel). Temperatures and possible problems with the unit are displayed at the control panel on the LCD. The entire electronic control system is described in greater detail on the following pages.

NOTE: The diagram below is not an exact electrical representation of the electronic control system. For more detailed electrical diagrams refer to the wiring diagram and schematic supplied with the unit.

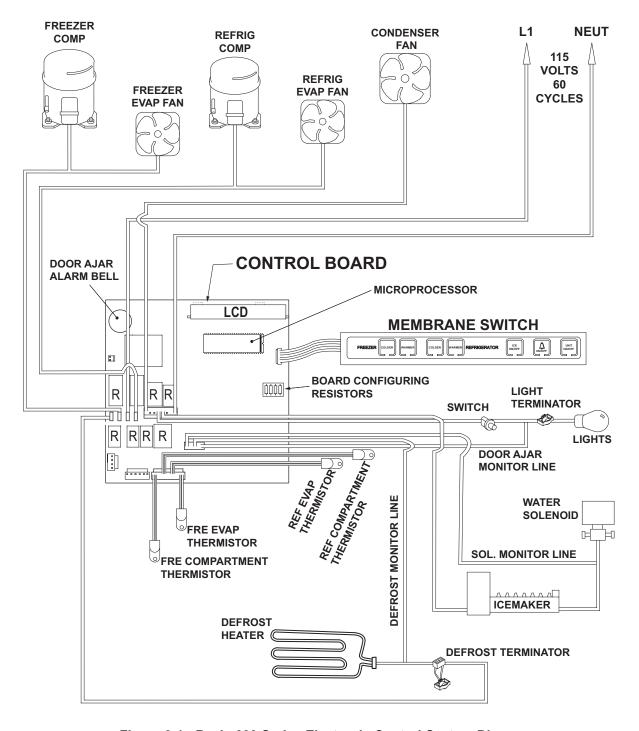


Figure 3-1. Basic 600 Series Electronic Control System Diagram



600 SERIES CONTROL BOARD LAYOUT AND SUMMARY TABLE

The electrical connection points on the control board are labeled alphanumerically. These labels correspond with the alphanumeric control board summary table, located on the wiring diagrams. By referencing the summary table, it is possible to identify which components are connected at which connection points on the control board. Below is a layout diagram of the control board and a copy of a summary table (See Figures 3-2 & 3-3).

NOTE: All components on the control board are non-replaceable. If problems with the control board are identified, the complete control board must be replaced.

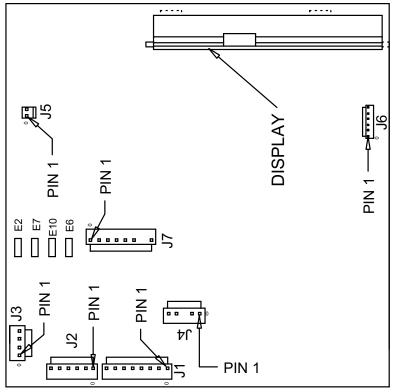


Figure 3-2. Control Board Layout

| CONTROL BOARD SUMMARY | | | | | | |
|---------------------------------|----------|---------------------------|---|---------------|--|--|
| | CIRCUIT | DESCRIPTION | FUNCTION | COLOR | | |
| 120 VOLT CIRCUITS | | | | | | |
| E2 | DEF HTR | DEFROST HEATER | POWERS DEFROST CIRCUIT | BLUE | | |
| E7 | FCOMP | FRZ COMPRESSOR | POWERS FRZ COMPRESSOR | PURPLE | | |
| E10 | L1 | POWER IN | POWER INTO BOARD | BLACK | | |
| E6 | RCOMP | REF COMPRESSOR | POWERS REF COMPRESSOR | GRAY | | |
| J7-1 | C FAN | CONDENSER FAN | POWERS CONDENSER FAN | WHITE/RED | | |
| J7-2 | E FAN | NOT USED | | | | |
| J7-3 | LACC | ICE MAKER ACC (FILL TUBE) | POWERS FILL TUBE HEATER AND ACCESSORIES | WHITE/BLUE | | |
| J7-4 | LITE | LIGHTS | POWERS LIGHTS | YELLOW | | |
| J7-5 | ICE | ICE MAKER | POWERS ICE MAKER | PINK | | |
| J7-6 | | NOT USED | | | | |
| J7-7 | | NOT USED(NO PIN) | | | | |
| J7-8 | NEU | NEUTRAL | NEUTRAL INTO BOARD | WHITE | | |
| J4-1 | F DR | FRZ DOOR LIGHT SENSE | SENSES IF FRZ DOOR OPEN | BROWN | | |
| J4-2 | R DR | REF DOOR LIGHT SENSE | SENSES IF REF DOOR OPEN | ORANGE | | |
| J4-3 | | NOT USED(NO PIN) | | | | |
| J4-4 | | DEF SENSOR | SENSES WHEN DEF HEATER SHUTS OFF | GRAY/WHITE | | |
| J4-5 | | ICE MAKER VALVE SENSOR | SENSES WATER VALVE ACTIVATION | TAN | | |
| LOW VOLTAGE THERMISTOR CIRCUITS | | | | | | |
| J1-1 | EVAP FRZ | FRZ EVAP | SENSES FRZ EVAP TEMP | ORANGE/RED | | |
| J1-2 | EVAP FRZ | | SENSES FRZ EVAP TEMP | BLUE/RED | | |
| J1-3 | EVAP REF | REF EVAP | SENSES REF EVAP TEMP | ORANGE/YELLOW | | |
| J1-4 | EVAP REF | REF EVAP | SENSES REF EVAP TEMP | BLUE/YELLOW | | |
| J1-5 | REF | REF COMPARTMENT | SENSES REF CABINET | BLUE/WHITE | | |
| J1-6 | REF | REF COMPARTMENT | SENSES REF CABINET | BLUE/WHITE | | |
| J1-7 | FRZ | FRZ COMPARTMENT | SENSES FRZ CABINET TEMP | BLUE/BLACK | | |
| J1-8 | FRZ | FRZ COMPARTMENT | SENSES FRZ CABINET TEMP | BLUE/BLACK | | |

Figure 3-3. Control Board Summary Table (632/642 Summary Table Shown)



600 SERIES CONTROL PANEL LAYOUT

NOTES:

- The illustration below is of a 632 control panel (See Figure 3-4).
- The control panels in models 601R, 601RG and 601F lack the obvious keys and annunciators illustrated below.
- The control panels in models 601G, 611G and 650G will include a LIGHTS ON/OFF key, not shown in this illustration.
- The control panels in models 680 and 690 are mounted vertically and include a BULK ICE key.

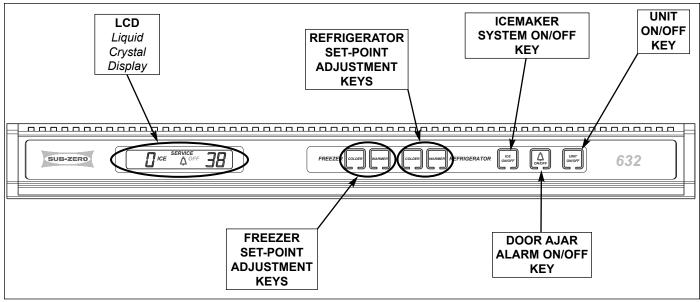


Figure 3-4. 600 Series Control Panel Layout (Model 632 Control Panel Shown)



BASIC ELECTRONIC CONTROL INPUT OPERATIONS

The following pages describe the basic input operations performed at a 600 Series control panel. The subjects covered are: switching the unit ON and OFF; adjusting the set-point (temperature adjustment); switching the ice maker system ON and OFF; enabling and disabling the door ajar alarm feature, and in a model 601RG, 611G and 650G only, accent lighting system ON and OFF.

Unit ON/OFF

All 600 Series units are shipped in the OFF Mode. When power is supplied to the unit, a trace of the word "OFF" is visible on the LCD. By pressing and releasing the UNIT ON/OFF key (See Figure 3-5), power is allowed past the control board to the rest of the unit. This will be indicated by the unit's lights energizing and LCD at the control panel illuminating with temperature readings.

NOTE: Whenever the unit is switched OFF using the UNIT ON/OFF key, a trace of the word "OFF" will be visible on the LCD as long as there is power to the unit.

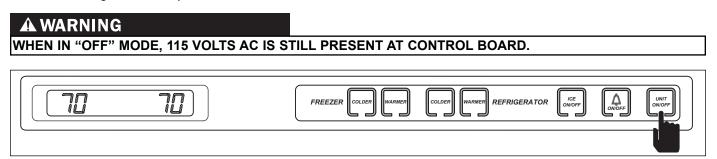


Figure 3-5. 600 Series Unit ON/OFF, Press UNIT ON/OFF Key

Adjusting Set-Point (Temperature Adjustment)

To adjust the set-points, press the appropriate compartment WARMER or COLDER key on the control panel in <u>multiple key strokes</u> until the desired set-point is achieved (See Figure 3-6). One key stroke equals a one degree (Fahrenheit or Celsius) change.

NOTE: The temperature range in a freezer compartment is -5°F (-21°C) to +5°F (-15°C). The temperature range in a refrigerator compartment is +34°F (+1°C) to +45°F (+7°C).

NOTE: When checking set-points, remember that the initial key stroke of the WARMER or COLDER key will change the previous set-point by one degree (Fahrenheit or Celsius).

NOTE: The set-point will be displayed on the LCD for 10 seconds after the last WARMER or COLDER key stroke. After the 10 second delay, the compartment temperature will be displayed. As the compartment temperature changes, the temperature displayed on the LCD will change by no more than one degree per minute.

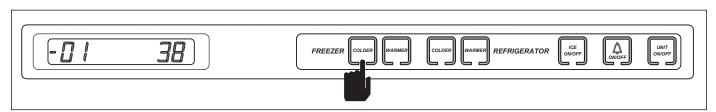


Figure 3-6. Adjusting the Set-Point - Press WARMER or COLDER Key In Multiple Key Strokes

Icemaker System ON/OFF

All 600 Series units with freezer compartments are equipped with an icemaker. When the unit first arrives in a home, the icemaker system is off. By pressing and releasing the ICE ON/OFF key on the control panel, power is allowed to the icemaker system and "ICE" is displayed on the LCD (See Figure 3-7). To deactivate the icemaker system, press and release the ICE ON/OFF key again and the "ICE" annunciator will disappear from the LCD, indicating the icemaker system is off.

NOTE: When the unit is in "Sabbath Mode," the icemaker system is automatically deactivated. Sabbath Mode will be explained later in this section.

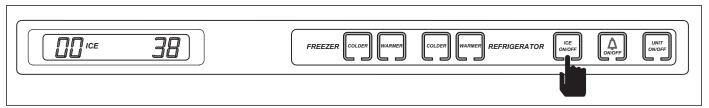


Figure 3-7. Icemaker System ON/OFF - Press ICE ON/OFF Key

Door Ajar Alarm Feature (△) ON/OFF

All 600 Series units are equipped with a door ajar alarm feature. To enable the door ajar alarm, press and release the bell ON/OFF key on the control panel (See Figure 3-8). The bell annunciator will illuminate on the LCD indicating the alarm feature is active. With the alarm enabled, the bell annunciator will flash and the audible alarm will beep whenever the door is left open for more then thirty seconds. To disable the door ajar alarm, press the bell ON/OFF key again and the bell annunciator on the LCD will disappear, indicating the alarm feature is inactive.

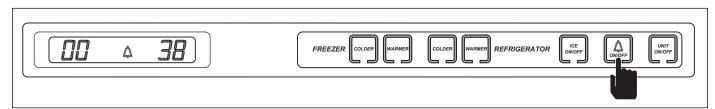


Figure 3-8. Door Ajar Alarm ON/OFF, Press Alarm Bell ON/OFF Key

Accent Lighting System ON/OFF (Models 601RG, 611G and 650G Only)

The models 601RG, 611G and 650G are equipped with an accent lighting system. To energize the accent lighting system, press the LIGHTS ON/OFF key (See Figure 3-9). With the accent lighting system energized, three low intensity light strips (15 Watts each), will stay illuminated when the door is closed. To disable the accent lights, press the LIGHTS ON/OFF key again.

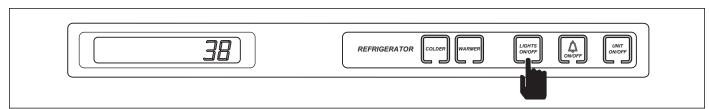


Figure 3-9. Model 601RG, 611G and 650G Accent Lighting System ON/OFF - Press LIGHTS ON/OFF Key



FUNCTIONS OF THE ELECTRONIC CONTROL SYSTEM

The following pages explain the monitoring, regulating and controlling functions of the electronic control system. In most cases signal traces on a model 632 wiring schematic are used to show electric current flow for the function being explained.

NOTE: Only normal operating functions are explained. Possible malfunctions are addressed in the Troubleshooting Guide.

Supply Power to the Lighting System

115 Volts are supplied to the lighting system through the control board when the unit is switched ON by pressing the UNIT ON/OFF key (See Figure 3-10).

NOTE: Disabling the lighting system (Sabbath Mode) is explained later in this section.

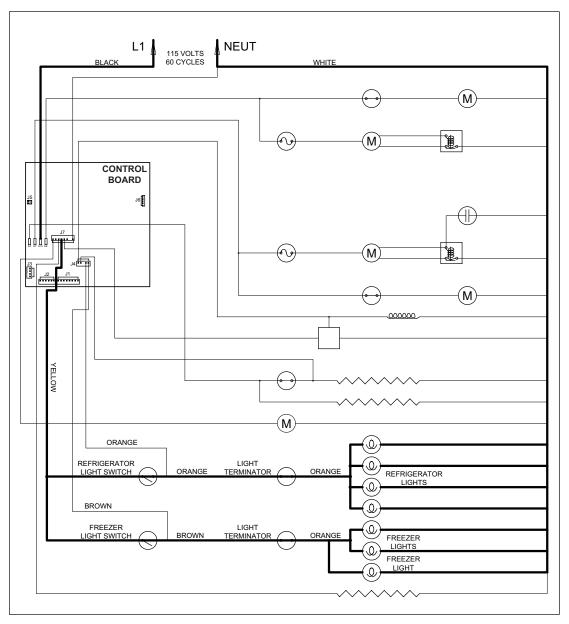


Figure 3-10. Signal Trace Schematic of Lighting System

Monitor, Regulate and Display Compartment Temperatures

The temperature signal from the thermistor in the refrigerator and/or freezer compartment is monitored by the micro-processor and displayed on the LCD. Though the compartment air temperature does fluctuate slightly, the LCD displays the average temperature (See Figure 3-11). When the compartment reaches high offset temperature, the microprocessor supplies power to the compressor and evaporator fan. (See Figure 3-12). As the compressor and evaporator fan run, the compartment temperature drops. When the compartment reaches low offset temperature, the microprocessor interrupts power to the compressor and evaporator fan, cycling them off.

NOTE: If the compartment temperature should ever exceed either the high offset or low offset (Example: when a door is left open), the temperature displayed on the LCD will change by one degree per minute.

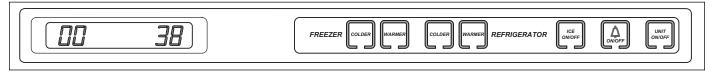


Figure 3-11. Average Compartment Temperature Displayed

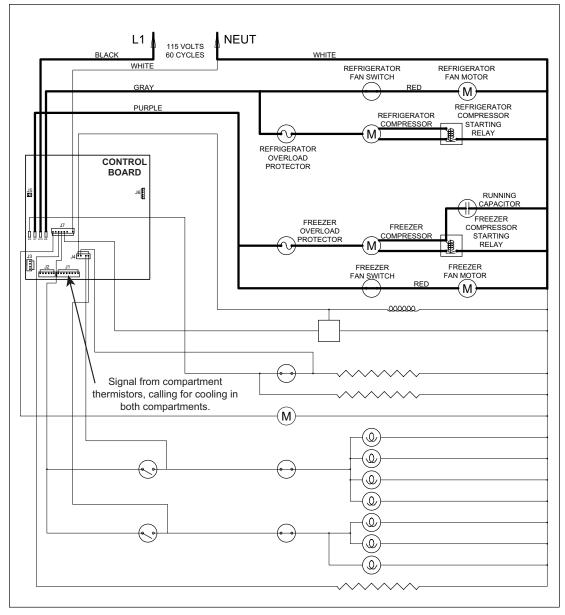


Figure 3-12. Signal Trace Schematic (High Voltage only) of Regulating Temperatures



Control Condenser Fan Run

The microprocessor senses the 115 volt output supplied to both compressors. If either compressor is running, a signal is sent to the condenser fan relay on the control board to close, supplying power to the condenser fan (See Figure 3-13). If both compressors are off, the condenser fan will also be off.

NOTE: In the single compressor models (601R, 601RG and 601F), power to the condenser fan is supplied by the compressor circuit. The white/red wire from the control board will not be present in those models.

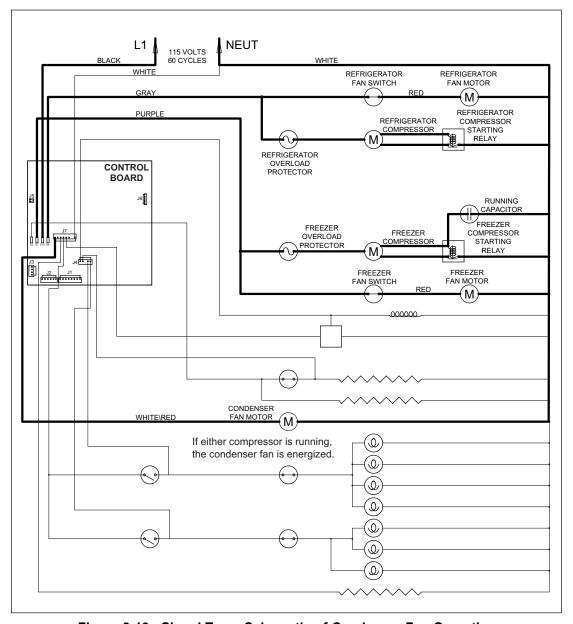


Figure 3-13. Signal Trace Schematic of Condenser Fan Operation



Minimize Condensation on Refrigerator Door Glass (Models 601RG, 611G and 650G Only)

The refrigerator door on models 601RG, 611G and 650G are equipped with a 5 watt braided wire heater around the perimeter of the door glass. When the unit is ON, the heater is energized 100% of the time to minimize condensation formation on the glass. To further help minimize condensation on the glass, the microprocessor senses every time the door is opened and closed by the signal from the light switch. When the door closes the evaporator fan is energized for five minutes to draw any warmer moist air away from the door glass. (See Figure 3-14)

NOTE: The evaporator fan in models 601RG, 611G and 650G also cycles with the compressor.

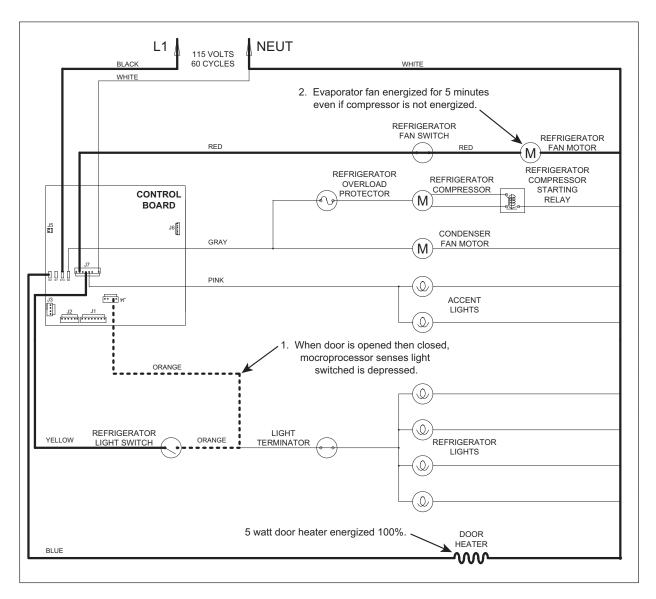


Figure 3-14. Signal Trace Schematic of 601RG Evaporator Fan Operation



Monitor and Control Refrigerator Off-Cycle Defrost

The temperature signals from the refrigerator compartment thermistor and refrigerator evaporator thermistor are monitored by the microprocessor. During off cycle defrost, if the compartment temperature reaches high offset before the evaporator has risen to 38°F (3°C), the signal to run the compressor and evaporator fan will wait, allowing the refrigerator evaporator to fully defrost before the compressor is energized (See Figure 3-15).

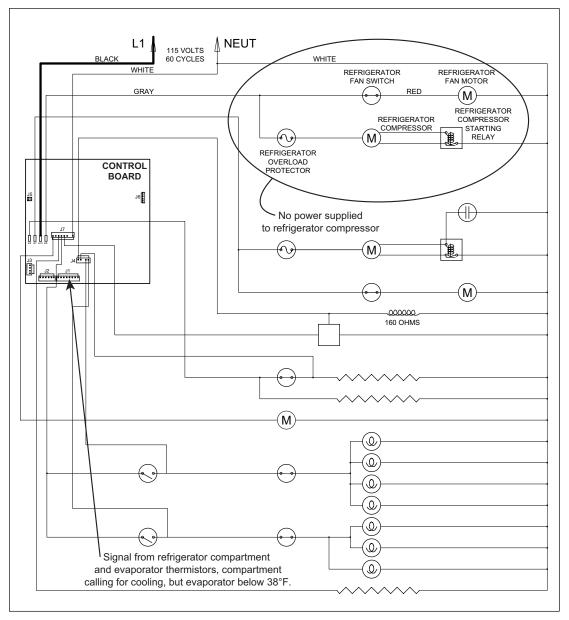


Figure 3-15. Signal Trace Schematic (High Voltage only) of Refrigerator Off-Cycle Defrost



Monitor and Control "Adaptive Defrost" of Freezer Evaporator

Initially the freezer compressor will cycle-run for twelve hours, after which the compressor is switched off and power is supplied to the defrost heater (See Figure 3-16). With the "Adaptive Defrost" technique, the length of time that the heater stays on to defrost the evaporator and satisfy the defrost terminator is observed by the microprocessor. The microprocessor then determines the number of hours before the next defrost. If the heater stays on for a shorter time than specified, the microprocessor increases the time interval before the next defrost. If the heater stays on longer than specified, the electronic control decreases the time interval before the next defrost. This is an ongoing process whereby the defrost time and the defrost interval will vary by unit use.

NOTE: A five minute time delay/dwell follows all defrosts before the compressor is energized. The freezer drain trough heater is energized during defrost and remains energized during this five minute dwell.

NOTE: The minimum defrost interval is six hours. The maximum defrost interval is eighty hours. The maximum defrost duration is twenty-five minutes.

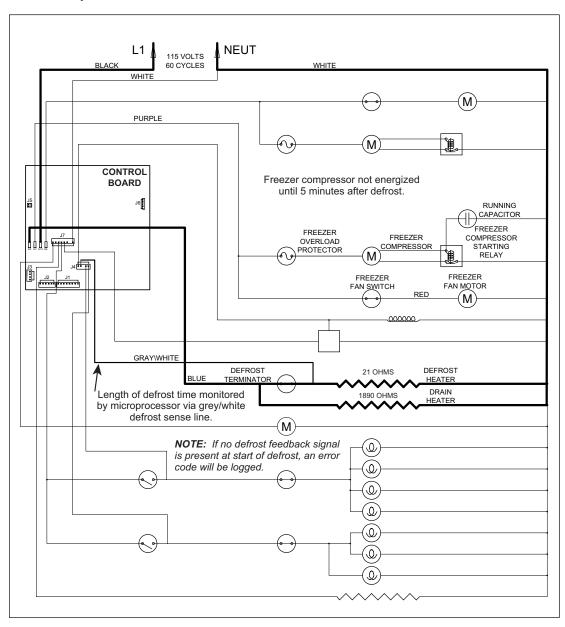


Figure 3-16. Signal Trace Schematic of Freezer Adaptive Defrost



Monitor Compressor Run Duration, Displays If Service may be Needed

The microprocessor senses the 115 volts supplied to each compressor, monitoring the length of compressor run time (See Figure 3-17). If either compressor experiences several excessive run periods (possibly due to a dirty condenser), a signal is sent to the "SERVICE" annunciator on the LCD to flash (See Figure 3-18).

NOTE: SERVICE flashing alone can indicate excessive compressor run <u>or</u> a faulty refrigerator evaporator thermistor. To narrow the search for the cause, Diagnostic Mode (covered later in this section) should be initiated.

NOTE: If Diagnostic Mode is initiated and there are "Error Codes" (also covered later in this section), a <u>non-flashing</u> SERVICE annunciator will be observed. To clear a non-flashing SERVICE annunciator, the problem must be corrected, then the Bell ON/OFF key must be pressed and held for fifteen seconds.

NOTE: If the unit is ever switched OFF then back ON, the compressors will not energize for at least three minutes because of a three minute minimum OFF time built into the electronic control system to protect the compressor and its electricals. There is also a three minute minimum ON time for this same purpose.

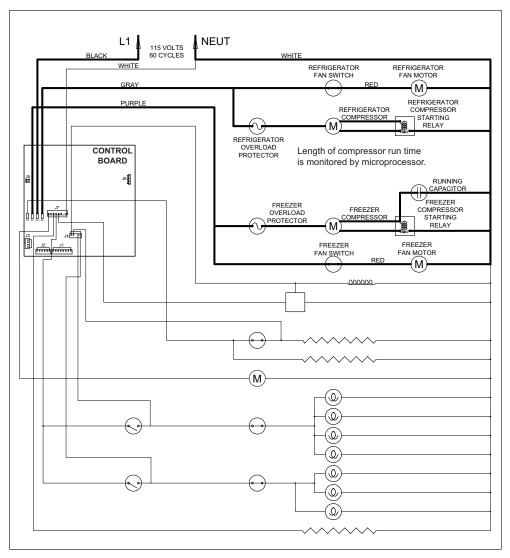


Figure 3-17. Signal Trace Schematic of Compressor Electrical System

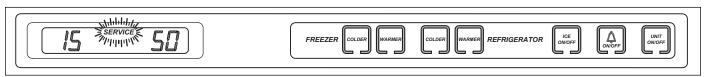


Figure 3-18. SERVICE Flashing Alone Possibly Because of Several Excessive Compressor Run Periods



Monitor Icemaker System and Display If Service Is Needed

The microprocessor monitors the 115 volts supplied to the icemaker water valve solenoid (See Figure 3-19). If the solenoid is energized longer than fifteen seconds, the microprocessor cuts power to the icemaker system and sends a signal to the ICE and SERVICE annunciators on the LCD to flash (See Figure 3-20).

NOTE: To clear flashing ICE and SERVICE annunciators, the problem must be corrected, then the unit must be switched OFF and back ON.

NOTE: To allow ice to freeze fully and reduce effects of possible low water pressure, the electronic control system interrupts power to the icemaker system for 45 minutes after each ice harvest.

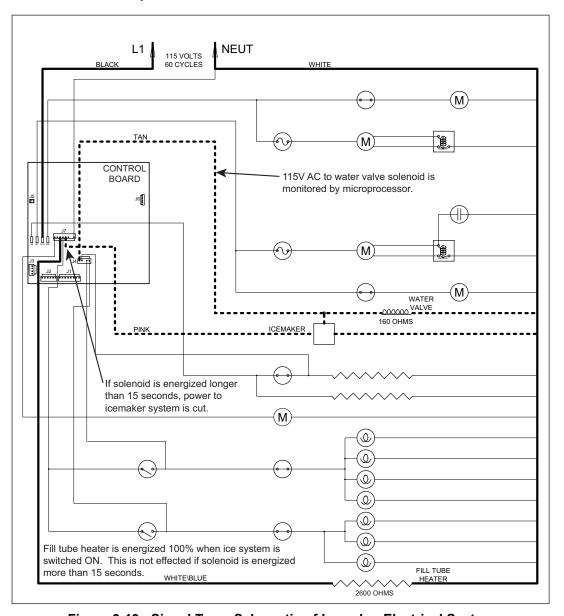


Figure 3-19. Signal Trace Schematic of Icemaker Electrical System

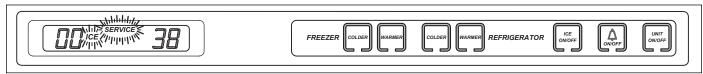


Figure 3-20. ICE & SERVICE Flashing = Water Valve Solenoid Energized Longer Than 15 Seconds and Icemaker System Disabled



UNIQUE ELECTRONIC CONTROL INPUT OPERATIONS

The following few pages illustrate unique electronic control input operations performed at the control panel that you would not expect a customer to perform every day. The input operations described are: Temperature Unit Selection Mode, Sabbath Mode, Showroom Mode, Manual Compartment Disable Mode and Manual Freezer Evaporator Defrost.

Temperature Units Selection Mode (Selecting Degrees Fahrenheit or Degrees Celsius Display)

The electronic control is initially set to display temperature in Fahrenheit (°F) units of measure. However, the temperature units displayed can be converted from °F to °C (Celsius), and/or back again. This operation is called Temperature Units Selection.

NOTE: Temperature Units Selection must be performed within the first minute after switching the unit ON.

To convert the temperature units of measure from Fahrenheit (°F) readings to Celsius (°C) readings, press and hold the door ajar alarm bell key and the UNIT ON/OFF key simultaneously for approximately five seconds, then release both keys (See Figure 3-21). "°C" will appear on the LCD indicating that temperatures will now be displayed in Celsius units of measure. To convert back to Fahrenheit units of measure, repeat pressing the alarm bell key then the UNIT ON/OFF key simultaneously. (See Figure 3-22)

NOTE: Temperature Units Selection Mode will end 10 seconds after the last key stroke.

NOTE: Do not press and hold the UNIT ON/OFF key first, that will simply switch the unit OFF.

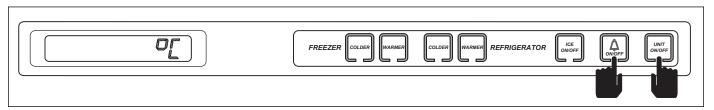


Figure 3-21. Converting to from Fahrenheit to Celsius Units of Measure (within first minute after switching unit ON)

Press and Hold Door Ajar Alarm Bell Key and UNIT ON/OFF Key for 5 Seconds

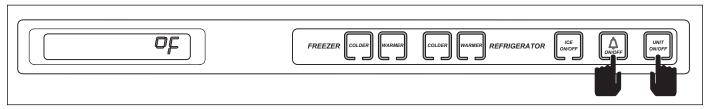


Figure 3-22. Converting Back to Fahrenheit Units of Measure (within 10 seconds of previous key stroke and/or within first minute after switching unit ON)

Press and Hold Door Ajar Alarm Bell Key and UNIT ON/OFF Key



Sabbath Mode

Sabbath Mode was incorporated into the electronic control system for the observance of certain religious days. Initiating Sabbath Mode disables the light switches, the circuits to the ice making system and the door ajar alarm.

To initiate Sabbath Mode, the unit must first be switched OFF using the UNIT ON/OFF key (See Figure 3-23). With the unit switched OFF, press and hold the UNIT ON/OFF key for <u>ten</u> seconds, then release (See Figure 3-24).

To return to normal lighting operation, press and release the UNIT ON/OFF key.

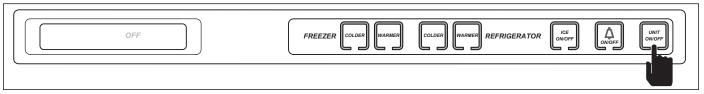


Figure 3-23. To Enter Sabbath Mode, Switch Unit OFF First

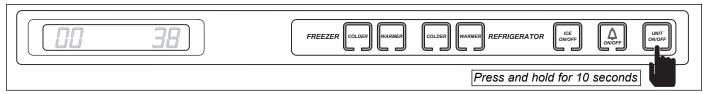


Figure 3-24. After Unit is Switched OFF, Press and Hold the UNIT ON/OFF Key for 10 Seconds

Showroom Mode

Showroom Mode was incorporated into the electronic control system to allow for Sub-Zero appliances to be displayed in a showroom setting. When in Showroom Mode, all cooling functions are disabled, but the lighting system remains active.

To initiate Showroom Mode, the unit must first be switched OFF using the UNIT ON/OFF key (See Figure 3-25). With the unit switched OFF, press and hold either pair of WARMER and COLDER keys, then press the UNIT ON/OFF key, then release all three keys (See Figure 3-26).

To return the unit to normal operating condition, repeat the steps above.

NOTE: Always check set-points after returning unit to normal operating condition.

NOTE: It is possible to determine if a unit is in Showroom Mode by initiating Diagnostic Mode. If "Sr" is observed in the left temperature display area during Diagnostic Mode, the unit is in Showroom mode. Initiating Diagnostic Mode is covered later in this section.

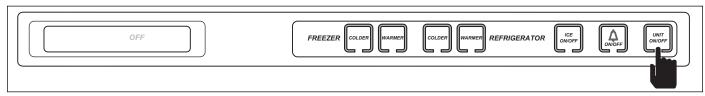


Figure 3-25. To Enter (or Exit) Showroom Mode, Switch Unit OFF First

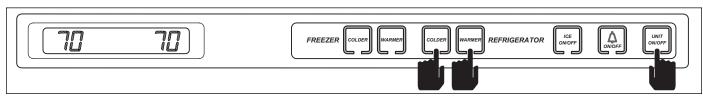


Figure 3-26. After Unit is Switched OFF, Press and Hold the WARMER and COLDER Keys,
Then Press the UNIT ON/OFF Key



Manual Compartment Disable Mode

Manual Compartment Disable Mode allows a customer or Service Technician to switch one compartment off for interior cleaning, defrosting or diagnostic purposes, while allowing the other compartment to continue cooling.

To initiate Manual Compartment Disable Mode, the unit must first be switched OFF using the UNIT ON/OFF key (See Figure 3-27). With the unit switched OFF, press and hold the WARMER key for the compartment being disabled, then press the UNIT ON/OFF key, then release both keys (See Figure 3-28). The LCD will display "--" (double dashes) in place of temperature readings for the compartment chosen, indicating that all cooling functions for that compartment are disabled.

To return the unit to normal operating condition, repeat the steps above.

NOTE: Always check set-points after returning unit to normal operating condition.

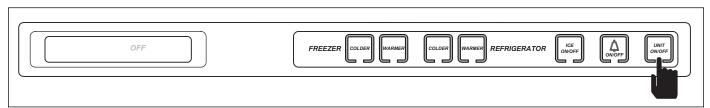


Figure 3-27. To Enter (or Exit) Manual Compartment Disable Mode, Switch Unit OFF First

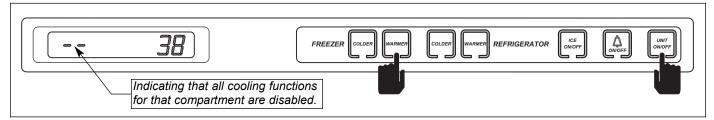


Figure 3-28. After Unit is Switched OFF, Press and Hold the WARMER Key for the Compartment Being Disabled, Then Press the UNIT ON/OFF Key.

Manual Freezer Evaporator Defrost

Manual Freezer Evaporator Defrost was incorporated into the electronic control to assist in servicing and diagnostics

To initiate manual freezer evaporator defrost, press and hold the ICE key for five seconds, then release the key. (See Figure 3-29).

NOTE: Manual Freezer Evaporator Defrost will not operate if unit is in Sabbath Mode.

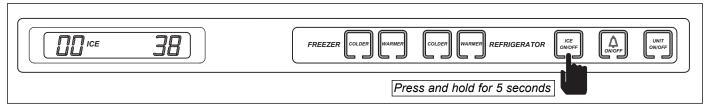


Figure 3-29. Initiate Manual Freezer Evaporator Defrost - Press and Hold the ICE key for 5 Seconds



POSSIBLE ERROR INDICATORS

These pages contain diagrams which illustrate what a customer may see on the LCD if there is a problem/error with the unit.

"EE" Displayed at Left and "SERVICE" Flashing - If "EE" is displayed in place of freezer compartment temperature and "SERVICE" is flashing, then the freezer compartment thermistor is faulty or there is a break in the thermistor's wiring (See Figure 3-30). To clear this error indicator, the problem must be corrected.

NOTE: To check the thermistor, submerse it in a glass of ice water for two to five minutes, then check for 30,000 to 33,000 ohms.

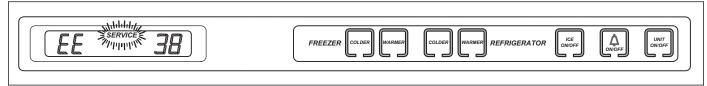


Figure 3-30. "EE" at Left and "SERVICE" Flashing = Freezer Compartment Thermistor (or its Wiring) Fault

"SERVICE" Flashing and "EE" Displayed at Right - If "EE" is displayed in place of refrigerator compartment temperature and "SERVICE" is flashing, then the refrigerator compartment thermistor is faulty or there is a break in the thermistor's wiring (See Figure 3-31). To clear this error indicator, the problem must be corrected.

NOTE: To check the thermistor, submerse it in a glass of ice water for two to five minutes, then check for 30,000 to 33,000 ohms.

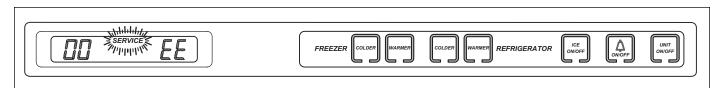


Figure 3-31. "SERVICE" Flashing and "EE" at right = Refrig. Compartment Thermistor (or its wiring) Fault

"ICE" and "SERVICE" Flashing - If "ICE" and "SERVICE" are flashing, then the icemaker water valve solenoid energized longer then fifteen seconds (possibly caused by a jammed ice cube), and the icemaker system is disabled (See Figure 3-32). To clear this error indicator, the problem must be corrected, then the unit must be switched OFF then back ON.

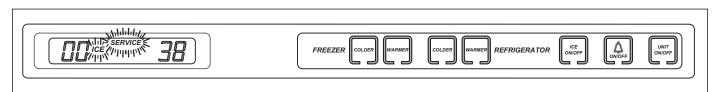


Figure 3-32. "ICE" & "SERVICE" Flashing = Valve Solenoid energized 15 Sec., Icemaker System Disabled



"SERVICE" Alone Flashing - If "SERVICE" is flashing (without "EE" displayed or "ICE" flashing), then one of two things is wrong, either the refrigerator evaporator thermistor (or its wiring) is faulty or the unit experienced excessive compressor run. If it is a refrigerator thermistor fault, there may be normal freezer temperatures and warm or normal refrigerator temperatures (See Figure 3-33). If it is an excessive compressor run problem, there may be warm or normal freezer temperatures and warm or normal refrigerator temperatures (See Figure 3-34). To narrow the search for the problem, Diagnostic Mode (covered later in this section) should be initiated.

To clear this error indicator, the problem must be corrected, then the unit must be switched OFF and back ON.

NOTE: To check the evaporator thermistor, submerse it in a glass of ice water for two to five minutes, then check for 30,000 to 33,000 ohms.

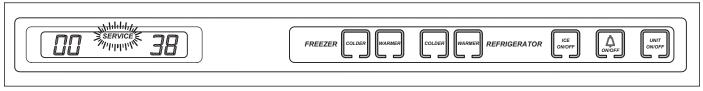


Figure 3-33. "SERVICE" Flashing (possible warm ref. temp.) = Refrig. Evap. Thermistor (or its Wiring) Fault NOTE: To help identify the problem, Diagnostic Mode (Covered later in this section) should be initiated.

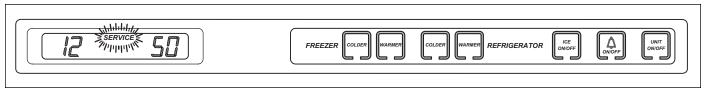


Figure 3-34. "SERVICE" Flashing (possible warm refrig &/or fre. temp.) = Excessive Compressor Run NOTE: To help identify the problem, Diagnostic Mode (Covered later in this section) should be initiated.

"SERVICE" Flashing and "EC" Displayed - If "SERVICE" is flashing and "EC" is displayed at the right, then the unit experienced excessive compressor run and there are "Error Codes" registered (See Figure 3-35). (Error Codes are covered later in this section.)

NOTE: If error codes were registered during an excessive compressor run condition, the error indicated may or may not be the cause of the excessive compressor run condition. A thorough troubleshooting must be performed.

NOTE: Whenever Error Codes are observed, they must be cleared from electronic control memory. To clear Error Codes, the problem must be corrected, then the Bell ON/OFF key must be pressed and held for 15 seconds.

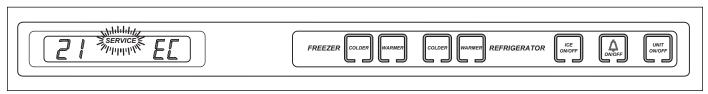


Figure 3-35. "EC" at Right and "SERVICE" Flashing = Excessive Comp. Run with Error Codes Registered



TROUBLESHOOTING INPUT OPERATIONS

These pages explain troubleshooting input operations performed at the control panel. The input operations described are Diagnostic Mode, Manual Component Activation Mode and Temperature Log Recall.

Diagnostic Mode

Initiating Diagnostic Mode allows the Service Technician to observe real-time temperature readings from all thermistors without temperature averaging. If errors were registered by the thermistors or the defrost system, "Error Codes" will also be displayed during diagnostic mode (this is explained later).

To initiate Diagnostic Mode, the unit must be ON. With the unit ON, press and hold <u>either</u> COLDER key, then press the UNIT ON/OFF key, then release both keys (See Figure 3-36). If no error codes are registered, the left display area will show the real-time temperature of the thermistor being read, the right display area will show the thermistor location code, and all annunciators will illuminate on the LCD indicating the unit is in Diagnostic Mode (See Figure 3-35). Pressing <u>either</u> COLDER key or <u>either</u> WARMER key while in Diagnostic Mode will toggle to the next or previous thermistor location, respectively. (See Figure 3-37, 3-38 and 3-39)

NOTE: Diagnostic Mode will end 20 seconds after the last key stroke.

NOTE: If the COLDER and UNIT ON/OFF keys are pressed and held for 10 seconds, Manual Component Activation Mode will be initiated (this is covered later in the section).

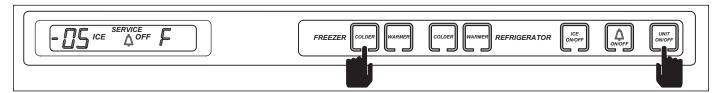


Figure 3-36. Initiate Diagnostic Mode - Press and Hold <u>Either</u> COLDER Key, Then the UNIT ON/OFF Key ("F" Indicates Freezer Compartment)

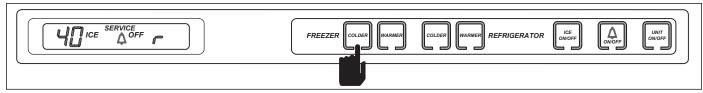


Figure 3-37. Toggle Through Temperature Readings - Press <u>Either</u> COLDER Key or <u>Either</u> WARMER Key ("r" Indicates Refrigerator Compartment)

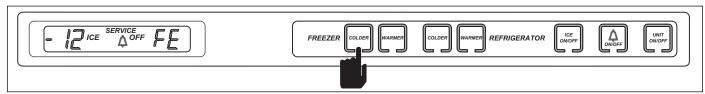


Figure 3-38. Toggle Through Temperature Readings - Press <u>Either</u> COLDER Key or <u>Either</u> WARMER Key ("FE" Indicates Freezer Evaporator)

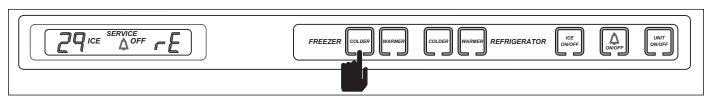


Figure 3-39. Toggle Through Temperature Readings - Press <u>Either</u> COLDER Key or <u>Either</u> WARMER Key ("rE" Indicates Refrigerator Evaporator)



If "EE" is observed in the left display area during Diagnostic Mode, the thermistor in that location is open or shorted, or there is a break in that thermistor's wiring (See Figure 3-40).

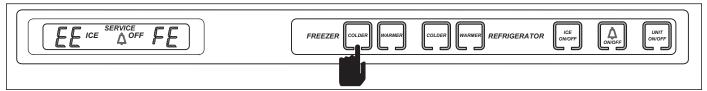


Figure 3-40. "EE" Observed in Diagnostic Mode = Thermistor (or its wiring) Fault in Location Indicated

If "Sr" is observed in the left display area when Diagnostic Mode is initiated, the unit is in Showroom Mode, which was explained earlier in this section (See Figure 3-41).

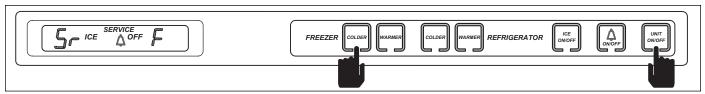


Figure 3-41. "Sr" Observed While in Diagnostic Mode = Unit is in Showroom Mode

When initiating Diagnostic Mode, numbers may appear in the left display area with "EC" in the right display area. "EC" indicates the numbers at left are an "Error Code" (See Figure 3-42 and the Error Code Table below). Error Codes indicate problems registered by specific components. If error codes are registered, they will appear before temperature readings and can be toggled through with the temperature readings as described on the previous page.

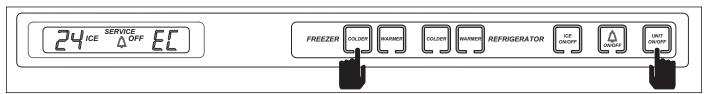


Figure 3-42. Numbers at Left with "EC" at Right = Error Code (See Table on Following Page)

| Error Code Table | | | |
|------------------|---|--|--|
| CODE | INDICATION | | |
| 05 | Refrig. Cabinet Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | |
| 06 | Refrig. Evaporator Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | |
| 07 | Freezer Cabinet Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | |
| 08 | Freezer Evaporator Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | |
| 20 | Defrost Under-heat with No Voltage Feedback Through Gray/White Wire at Defrost Start | | |
| 21 | Defrost Overheat | | |
| 22 | No Voltage Feedback Through Gray/White Wire at Defrost Start | | |
| 23 | Defrost Overheat with No Voltage Feedback through Gray/White Wire at Defrost Start | | |
| 24 | Defrost Under-heat | | |

NOTE: Currently, Error Codes are registered because of thermistor or defrost system errors only. The table above will be updated through addendums when subsequent software and electrical changes occur and more error codes are added.



If error codes are observed in diagnostic mode, a <u>non-flashing</u> SERVICE annunciator will appear on the LCD when Diagnostic Mode ends, indicating error codes are still registered (See Figure 3-43). To clear a non-flashing SER-VICE annunciator and the error codes, the problem must be corrected and the unit must be ON. Then, the Bell ON/OFF key must be pressed and held for fifteen seconds. The control will emit a short "beep" when the SERVICE annunciator and error codes are cleared. (See Figure 3-44)

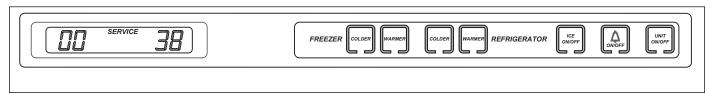


Figure 3-43. Non-flashing SERVICE Annunciator after Diagnostic Mode = Error Codes were Registered

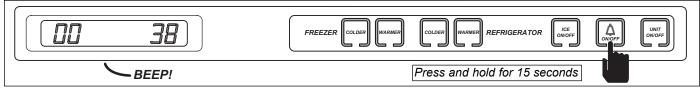


Figure 3-44. Clear Non-flashing SERVICE Annunciator - Press & Hold Bell ON/OFF Key for 15 Seconds

Manual Component Activation Mode

Manual Component Activation Mode allows a Service Technician to energize a cooling system for five minutes. When activated, the chosen compartment's compressor and evaporator fan are energized along with the condenser fan. While in Component Activation Mode, the evaporator temperatures for that compartment are displayed on the LCD. This also allows the Service Technician to check for proper voltage readings at the activated components without having to wait for the compartment to call for cooling.

To initiate Manual Component Activation Mode, the unit must be ON. With the unit ON, press and hold the desired compartment COLDER key and the UNIT ON/OFF key for ten seconds (See Figure 3-45). The evaporator temperature for that compartment will be displayed in the left display area of the LCD and the right display area will show the thermistor location.

NOTE: If the COLDER and UNIT ON/OFF keys are pressed and held for less then 10 seconds, Diagnostic Mode will be initiated. This was covered earlier in the section.

NOTE: It is possible to toggle through the other temperature readings as in Diagnostic Mode, but in this case the temperature readings will last for five minutes rather than twenty seconds.

NOTE: The compressor overload could prevent the compressor from energizing.

NOTE: Manual Component Activation Mode will end five minutes after it is initiated. It is possible to end this five minute run time and return to normal operation by switching the unit OFF then back ON. If this is done, note that the electronic control will observe a three minute minimum compressor OFF time when the unit is switched back ON. This is to protect the compressor and its electricals.

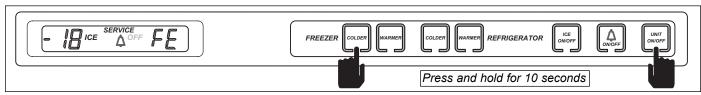


Figure 3-45. Initiate Manual Component Activation Mode - Press and Hold <u>Desired</u> COLDER Key and UNIT ON/OFF Key for 10 Seconds



Temperature Log Recall Mode

The electronic control system is equipped with a temperature history data storage system. This system logs/stores the average temperature of each individual thermistor every two hours (rounded to the nearest two degrees), along with any event indicators (explained later in this section), that may have occurred. These two-hour periods are referred to as "indexes". Up to 168 indexes can be stored for each compartment, making it possible to observe the preceding fourteen days of the unit's temperature history (each index equals 2 hour temperature average; 2 hours X 168 indexes = 14 days). After 168 indexes are stored, each new index will bump the oldest index. Index number "1" being the most recent two-hour temperature average and index number "168" being the oldest. Accessing this temperature history data so it can be viewed on the LCD is accomplished by initiating Temperature Log Recall Mode.

There are two ways to initiate Temperature Log Recall Mode. One allows viewing of compartment temperature history only (see below), the other allows viewing of compartment temperature history and evaporator temperature history (see following page).

Initiate Temperature Log Recall Mode To View Compartment Temperature History Only - Begin with the unit ON. Now, press and hold the desired compartment WARMER key, then press the UNIT ON/OFF key, then release both keys (See Figure 3-46). The left display area on the LCD will show average compartment thermistor temperature and in the right display area will be the index number. The first index number will be "1", indicating the most recent two-hour temperature average. The right display area will also flash the thermistor location code at three second intervals (See Figure 3-47).

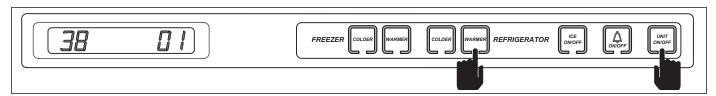


Figure 3-46. Initiate Temperature Log Recall Mode To View Compartment Temperature History Only - Press and Hold <u>Desired</u> WARMER Key, Then Press UNIT ON/OFF Key

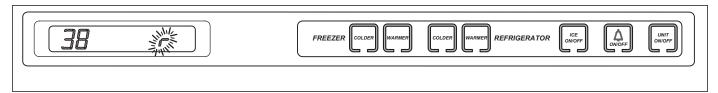


Figure 3-47. Thermistor Location Code Flashes Every Three Seconds

To toggle <u>up</u> through the indexes (from 1 to 168), press the same WARMER key in multiple key strokes (See Figure 3-48). To toggle <u>down</u> through the indexes (from 168 to 1), press the corresponding COLDER key in multiple key strokes (See Figure 3-49).

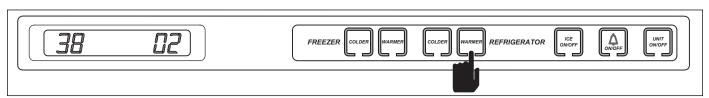


Figure 3-48. Toggle Up Through Indexes - Press WARMER Key in Consecutive Key Strokes

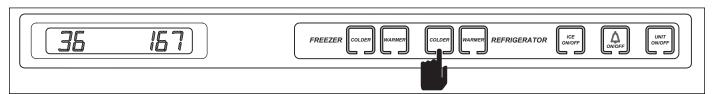


Figure 3-49. Toggle Down Through Indexes - Press COLDER Key in Consecutive Key Strokes



Initiate Temperature Log Recall Mode To View Compartment and Evaporator Temperature History - Begin with the unit ON and in Diagnostic Mode (See Figure 3-50). While in Diagnostic Mode, toggle through the readings until the desired thermistor temperature is displayed on the LCD (See Figure 3-51). Now, press the WARMER key for that compartment and the UNIT ON/OFF key simultaneously (See Figure 3-52). The left display area on the LCD will show average thermistor temperature and in the right display area will be the index number "1" indicating the most recent two-hour temperature average (See Figure 3-52). The right display area will also flash the thermistor location code at three second intervals (See Figure 3-53).

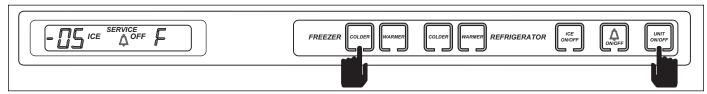


Figure 3-50. Initiate Diagnostic Mode - Press and Hold Either COLDER Key, then the UNIT ON/OFF Key

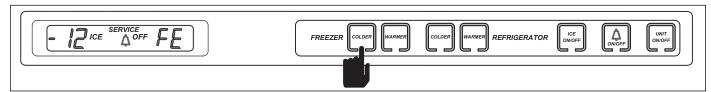


Figure 3-51. Toggle Through Temperature Readings - Press <u>Either</u> COLDER Key or <u>Either</u> WARMER Key Until Desired Thermistor Temperature is Displayed

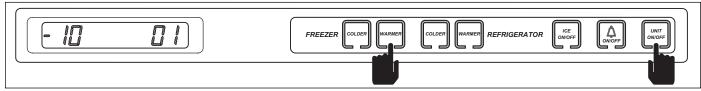


Figure 3-52. Initiate Temperature Log Recall Mode To View Temperature History - Press and Hold <u>Desired</u> WARMER Key and UNIT ON/OFF Key

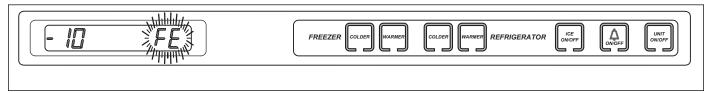


Figure 3-53. Thermistor Location Code Flashes Every Three Seconds

To toggle <u>up</u> through the indexes (from 1 to 168), press the same WARMER key in multiple key strokes (See Figure 3-54). To toggle <u>down</u> through the indexes (from 168 to 1), press the corresponding COLDER key in multiple key strokes (See Figure 3-55).

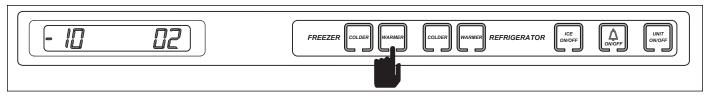


Figure 3-54. Toggle Up Through Indexes - Press WARMER Key in Consecutive Key Strokes

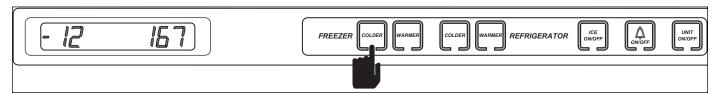


Figure 3-55. Toggle Down Through Indexes - Press COLDER Key in Consecutive Key Strokes



Possible Event Indicators During Temperature Log Recall Mode(s)

The diagrams below illustrate possible event indicators that may be observed while in Temperature Log Recall Mode. (See Figures 3-56 through 3-59)

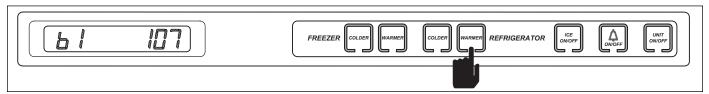


Figure 3-56. "bl" Indicates Index is "blank" - No Temperature has Been Logged Yet (Only possible within first 14 days of unit operation, or after new control board is installed during service)

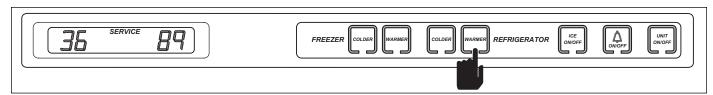


Figure 3-57. SERVICE Annunciator Illuminates - Indicates Unit was switched OFF During that Index Period by Pressing UNIT ON/OFF Key

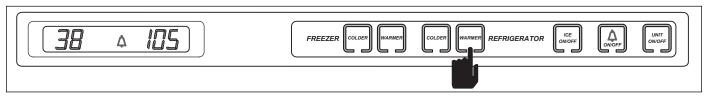


Figure 3-58. Bell Illuminates - Indicates Power Failure / Interruption During that Index Period

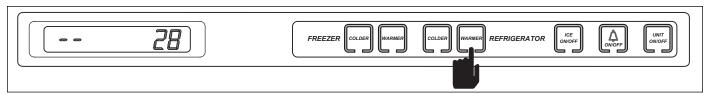


Figure 3-59. Double Dashes (- -) Displayed Instead of Temperature for Several Consecutive Index Periods - Indicates Bad EEPROM on Control Board. Board Must be Replaced

NOTE: Double dashes will also be observed when in Manual Compartment Disable Mode. Only when double dashes are observed in Temperature Log Recall Mode for <u>several consecutive indexes</u> should the control board be replaced.

NOTE: If Manual Compartment Disable Mode has been activated during any of the 168 indexes, average temperatures will continue to be logged. No event indicator will appear with these temperatures.

NOTE: If the unit was in Showroom Mode during any of the 168 indexes, average temperatures will continue to be logged. No event indicator will appear with these temperatures.

NOTE: If the unit was switched OFF by pressing the UNIT ON/OFF key during any of the 168 indexes and there was still 115V AC supplied to the control board, the average temperatures will continue to be logged. This means temperatures would be expected to rise and the SERVICE annunciator would be present in all indexes in which the unit was switched OFF.

NOTE: Temperature Log Recall Mode will end 20 seconds after the last key stroke.



Temperature Log Index Chart

NOTE: The chart below applies to the hours in which the control has power. Temperature history data will only be stored when the control has 115V AC supplied to it. If power to the unit is interrupted by switching the unit OFF at the UNIT ON/OFF key or due to a power failure, the average temperatures for that time period are stored with the event indicator. The temperature history data is stored in a non-volatile memory, so the data is not erased if power is interrupted.

| | | • | TEMPERATURE L | OG INDEX CHART | |
|--------|------------------------|--------|-------------------------|--------------------------------|--------------------------------|
| Index= | Hours Past | Index= | Hours Past | Index= Hours Past | Index= Hours Past |
| 1 = | 2 Hrs | 43 = | 86 Hrs | 85 = 170 Hrs | 127 = 254 Hrs |
| 2 = | 4 Hrs | 44 = | 88 Hrs | 86 = 172 Hrs | 128 = 256 Hrs |
| 3 = | 6 Hrs | 45 = | 90 Hrs | 87 = 174 Hrs | 129 = 258 Hrs |
| 4 = | 8Hrs | 46 = | 92 Hrs | 88 = 176 Hrs | 130 = 260 Hrs |
| 5 = | 10Hrs | 47 = | 94 Hrs | 89 = 178 Hrs | 131 = 262 Hrs |
| 6 = | 12 Hrs | 48 = | 96 Hrs (4 Days) | 90 = 180 Hrs | 132 = 264 Hrs <i>(11 Days)</i> |
| 7 = | 14 Hrs | 49 = | 98 Hrs | 91 = 182 Hrs | 133 = 266 Hrs |
| 8 = | 16 Hrs | 50 = | 100 Hrs | 92 = 184 Hrs | 134 = 268 Hrs |
| | 18 Hrs | 51 = | 102 Hrs | 93 = 186 Hrs | 135 = 270 hrs |
| | 20 Hrs | 52 = | 104 Hrs | 94 = 188 Hrs | 136 = 272 Hrs |
| 11 = | 22 Hrs | 53 = | 106 Hrs | 95 = 190 Hrs | 137 = 274 Hrs |
| 12 = | 24 Hrs (1 Day) | 54 = | 108 Hrs | 96 = 192 Hrs <i>(8 Days)</i> | 138 = 276 Hrs |
| | 26 Hrs | 55 = | 110 Hrs | 97 = 194 Hrs | 139 = 278 Hrs |
| | 28 Hrs | 56 = | 112 Hrs | 98 = 196 Hrs | 140 = 280 Hrs |
| | 30 Hrs | 57 = | 114 Hrs | 99 = 198 Hrs | 141 = 282 Hrs |
| | 32 Hrs | 58 = | 116 Hrs | 100 = 200 Hrs | 142 = 284 Hrs |
| | 34 Hrs | 59 = | 118 Hrs | 101 = 202 Hrs | 143 = 286 Hrs |
| 18 = | 36 Hrs | 60 = | 120 Hrs <i>(5 Days)</i> | 102 = 204 Hrs | 144 = 288 Hrs <i>(12 Days)</i> |
| 19 = | 38 Hrs | | 122 Hrs | 103 = 206 Hrs | 145 = 290 Hrs |
| 20 = | 40 Hrs | 62 = | 124 Hrs | 104 = 208 Hrs | 146 = 292 Hrs |
| 21 = | 42 Hrs | 63 = | 126 Hrs | 105 = 210 Hrs | 147 = 294 Hrs |
| 22 = | 44 Hrs | 64 = | 128 Hrs | 106 = 202 Hrs | 148 = 296 Hrs |
| 23 = | 46 Hrs | 65 = | 130 Hrs | 107 = 214 Hrs | 149 = 298 Hrs |
| 24 = | 48 Hrs (2 Days) | 66 = | 132 Hrs | 108 = 216 Hrs (9 Days) | 150 = 300 Hrs |
| | 50 Hrs | 67 = | 134 Hrs | 109 = 218 Hrs | 151 = 302 Hrs |
| 26 = | 52 Hrs | 68 = | 136 Hrs | 110 = 220 Hrs | 152 = 304 Hrs |
| 27 = | 54 Hrs | 69 = | 138 Hrs | 111 = 222 Hrs | 153 = 306 Hrs |
| 28 = | 56 Hrs | 70 = | 140 Hrs | 112 = 224 Hrs | 154 = 308 Hrs |
| 29 = | 58 Hrs | 71 = | 142 Hrs | 113 = 226 Hrs | 155 = 310 Hrs |
| 30 = | 60 Hrs | 72 = | 144 Hrs <i>(6 Days)</i> | 114 = 228 Hrs | 156 = 312 Hrs <i>(13 Days)</i> |
| 31 = | 62 Hrs | 73 = | 146 Hrs | 115 = 230 Hrs | 157 = 314 Hrs |
| 32 = | 64 Hrs | 74 = | 148 Hrs | 116 = 232 Hrs | 158 = 316 Hrs |
| 33 = | 66 Hrs | 75 = | 150 Hrs | 117 = 234 Hrs | 159 = 318 Hrs |
| | 68 Hrs | 76 = | 152 Hrs | 118 = 236 Hrs | 160 = 320 Hrs |
| 35 = | 70 Hrs | 77 = | 154 Hrs | 119 = 238 hrs | 161 = 322 Hrs |
| 36 = | 72 Hrs <i>(3 Days)</i> | 78 = | 156 Hrs | 120 = 240 Hrs <i>(10 Days)</i> | 162 = 324 Hrs |
| | 74 Hrs | | 158 Hrs | 121 = 242 Hrs | 163 = 326 hrs |
| 38 = | 76 Hrs | 80 = | 160 Hrs | 122 = 244 Hrs | 164 = 328 Hrs |
| 39 = | 78 Hrs | 81 = | 162 Hrs | 123 = 246 Hrs | 165 = 330 Hrs |
| 40 = | 80 Hrs | 82 = | 164 Hrs | 124 = 248 Hrs | 166 = 332 Hrs |
| 41 = | 82 Hrs | 83 = | 166 Hrs | 125 = 250 Hrs | 167 = 334 Hrs |
| 42 = | 84 Hrs | 84 = | 168 Hrs <i>(7 Days)</i> | 126 = 252 Hrs | 168 = 336 Hrs <i>(14 Days)</i> |
| | | | | | |

| Electronic Control System Notes | 600 Series SUB-ZERO |
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SECTION 4

SEALED SYSTEM INFORMATION



HFC-134a REFRIGERANT SERVICE INFORMATION

The 600 Series sealed systems contain HFC-134a refrigerant. This section provides general rules for working with 134a, and explains procedures to be followed while servicing the sealed system. This is followed by diagrams which illustrate sealed system operation, then model-specific refrigerant flow diagrams.

A CAUTION

134a refrigerant requires Synthetic Ester oil in the compressor, and does not tolerate contamination from other refrigerants, moisture, petroleum-based lubricants, silicone lubricants, cleaning compounds, rust inhibitors, leak detection dyes, or any other type of additive.

General Rules for Working with 134a Refrigerant

- Use equipment dedicated to 134a sealed system service only.
- Use only 134a refrigerant for back-flushing and sweep charging.
- Always replace the filter-drier when servicing the sealed system.
- The filter-drier must be cut from the sealed system. Never un-braze the drier as the heat will drive moisture back into the sealed system.
- Do not leave sealed system nor replacement compressor open to the atmosphere for more than 10 minutes.
- When the rubber plugs are pulled from the service compressor, a release of pressure should be heard. If no release of pressure is heard, do not use the compressor.
- Use ONLY virgin 134a refrigerant when recharging the sealed system.



| | IES SEALED SYSTEM REPAIR PROCEDURES | | | |
|--------------------------------|--|--|--|--|
| Problem | Service Procedures | | | |
| Non-Operating, Inefficient, | a. Capture refrigerant | | | |
| Noisy Compressor | b. Replace Compressor | | | |
| | c. Replace filter-drier | | | |
| | d. Evacuate or sweep charge system | | | |
| | e. Recharge system with Virgin 134a refrigerant. | | | |
| | NOTE: To check for a non-operating compressor, a hard start kit can be used. | | | |
| High Side leak | a. Capture refrigerant. | | | |
| | b. Repair leak. | | | |
| | c. Replace filter-drier. | | | |
| | d. Evacuate or sweep charge system. | | | |
| | e. Recharge system with Virgin 134a refrigerant. | | | |
| Low Side Leak | a. Capture refrigerant. | | | |
| | b. Repair leak (if at solder joint) or replace part. | | | |
| | c. Back flush high side of sealed system. | | | |
| | d. Replace compressor. | | | |
| | e. Replace filter-drier. | | | |
| | f. Evacuate or sweep charge system. | | | |
| | g. Recharge system with Virgin 134a refrigerant. | | | |
| Contaminated Sealed System | a. Capture refrigerant. | | | |
| - | b. Repair leak (if at solder joint) or replace part. | | | |
| Examples: | c. Back flush high side of sealed system. | | | |
| > Burned out compressor | d. Replace compressor. | | | |
| > Excessive moisture from | e. Replace filter-drier. | | | |
| leak in condensate loop or in | f. Replace heat exchanger if cap tube is clogged. | | | |
| low side | g. Install a low side drier on suction line. | | | |
| > Plugged capillary tube | h. Evacuate or sweep charge sealed system. | | | |
| | i. Recharge with Virgin 134a refrigerant. | | | |
| Restriction | a. Capture refrigerant. | | | |
| | b. Locate and remove restriction or locate and replace part. | | | |
| NOTE: If restriction is due to | c. Back flush high side of sealed system. | | | |
| sealed system being contami- | d. Replace filter-drier. | | | |
| nated, see Contaminated | e. Evacuate or sweep charge system. | | | |
| Sealed System above. | f Recharge system with Virgin 134a refrigerant. | | | |
| Overcharge | a. Capture refrigerant. | | | |
| - | b. Replace filter-drier. | | | |
| | c. Evacuate or sweep charge system. | | | |
| | d. Recharge system with Virgin 134a refrigerant. | | | |

SEALED SYSTEM OPERATION

The following six diagrams illustrate a basic sealed system. The components are listed in order of refrigerant flow, with an explanation of their fundamental role as part of a sealed system. **NOTE:** These illustrations do not represent any specific 600 Series sealed system.

Compressor (Figure 4-1)

The compressor creates a high side and low side pressure difference in the sealed system by compressing the refrigerant gas, thus raising the pressure and temperature. The compressor pushes this high-pressure/high-heat gas through the door gasket seat heater loop to prevent sweating (on most units the gas also travels through drain pan heater tubing to help evaporate water in the drain pan). The high-pressure/high-heat gas then travels to the condenser.

Condenser (Figure 4-2)

The high-pressure/high-heat gas travels through the condenser, where the heat is dissipated by cooler air being drawn over the condenser tubing by the condenser fan. This changes the gas into a high-pressure/warm liquid that then enters the high-side filter-drier.

High-Side Filter-Drier (Figure 4-3)

The high-pressure/warm liquid travels through the highside filter-drier, which removes moisture from the refrigerant before it enters the capillary tube.

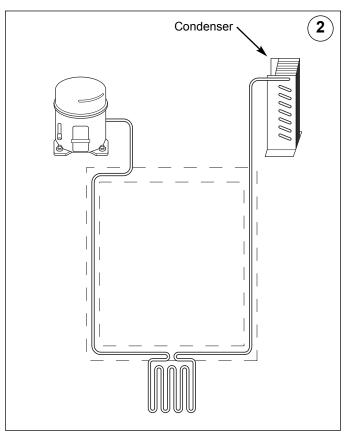


Figure 4-2. Condenser

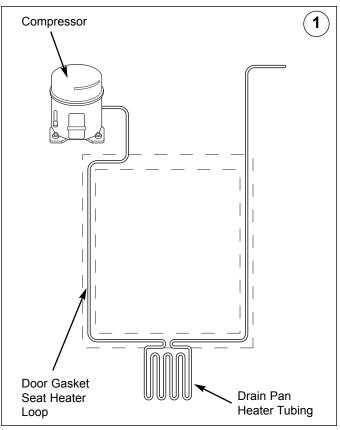


Figure 4-1. Compressor

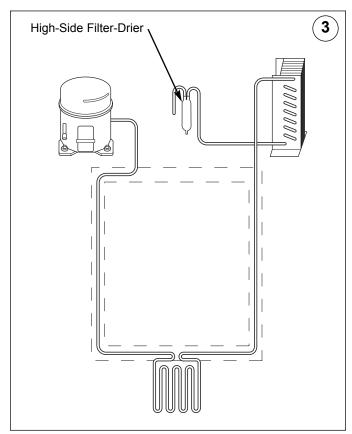


Figure 4-3. High-Side Filter-Drier

Capillary Tube (Part of Heat Exchanger) (Figure 4-4)

The high-pressure/warm liquid refrigerant travels through the long skinny capillary tube which is attached to the suction line. (These two tubes soldered together create the heat exchanger.) As the high-pressure/warm liquid refrigerant travels through the capillary tube it gives up heat to the cool refrigerant gas traveling through the suction line and the pressure drops, so it is a low-pressure/cool liquid before it enters the evaporator.

Evaporator (Figure 4-5)

As the low-pressure/cool liquid refrigerant enters the evaporator, it vaporizes. This is caused by a dramatic pressure change which occurs when the refrigerant enters the larger diameter evaporator tubing from the smaller diameter capillary tubing. This vapor travels through the evaporator absorbing heat from the compartment, gradually converting it to a cool gas. This cool gas then enters the suction line.

Suction Line (& Heat Exchanger) (Figure 4-6)

The cool gas travels through the suction line which is attached to the capillary tube. (As mentioned earlier, these two tubes soldered together create the heat exchanger.) As this cool refrigerant gas travels through the suction line it absorbs heat from the warm liquid refrigerant traveling through the capillary tube, making it a luke warm gas. The lukewarm refrigerant gas returns to the compressor where the process begins again.

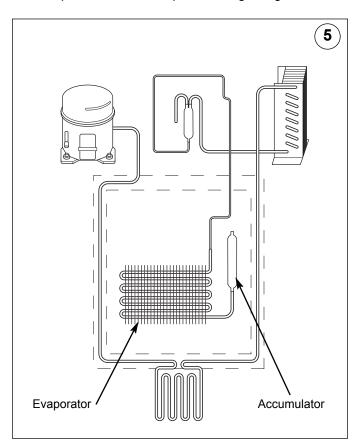


Figure 4-5. Evaporator

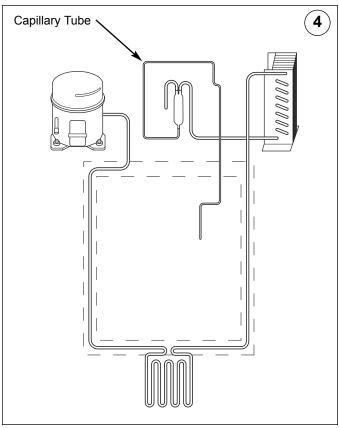


Figure 4-4. Capillary Tube (Part of Heat Exchanger)

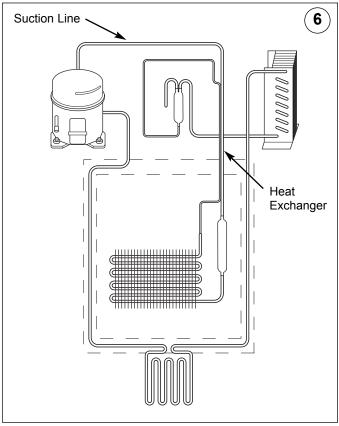


Figure 4-6. Suction Line (Part of Heat Exchanger)

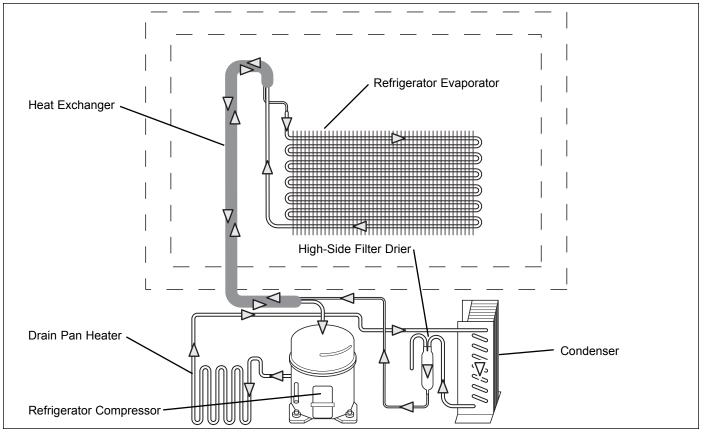


Figure 4-7. Models 601R, 601RG Refrigerant Flow

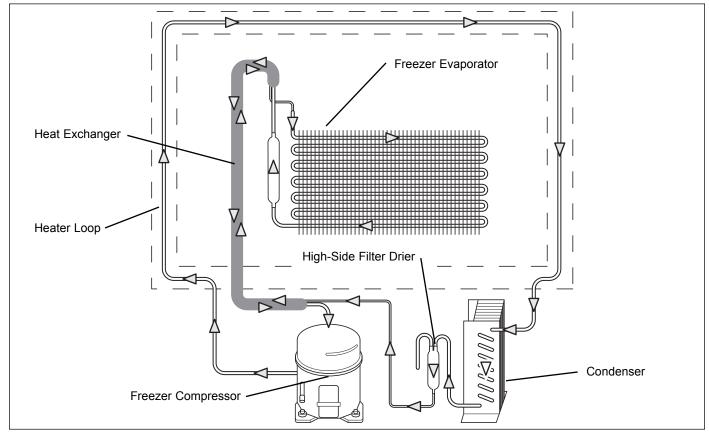


Figure 4-8. Model 601F Refrigerant Flow

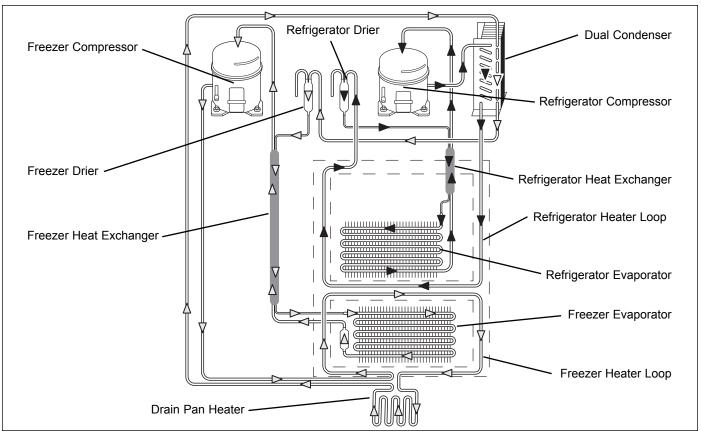


Figure 4-9. Models 611, 611G, 650, 650G Refrigerant Flow

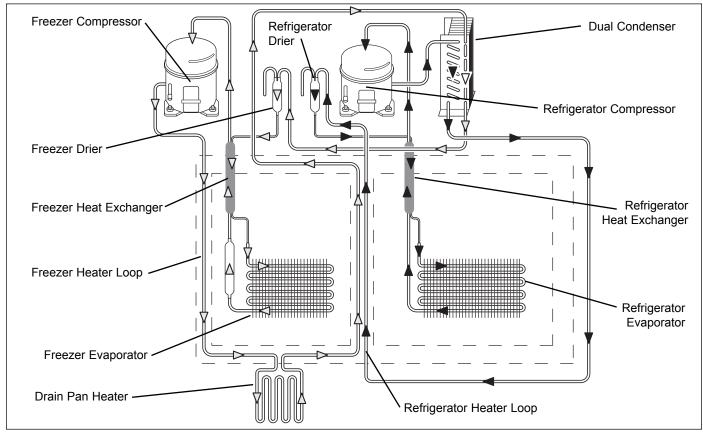


Figure 4-10. Models 632, 642, 680, 690 Refrigerant Flow

| Sealed System Information | 600 Series SUB-ZERO |
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SECTION 5

AIR FLOW AND FAN BLADE SPACING

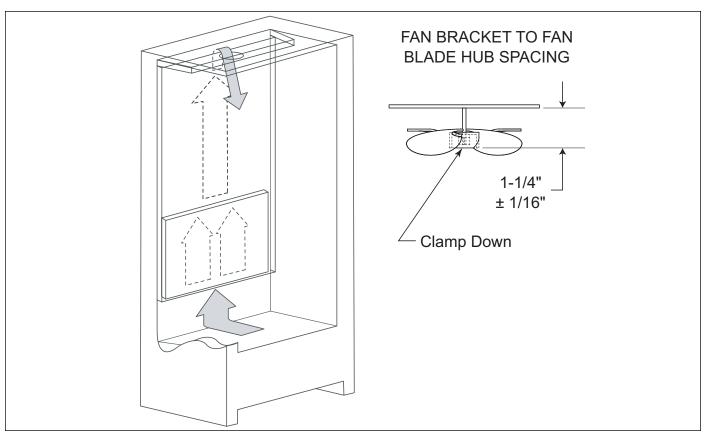


Figure 5-1. Air Flow and Fan Blade Spacing, Models 601R and 601RG

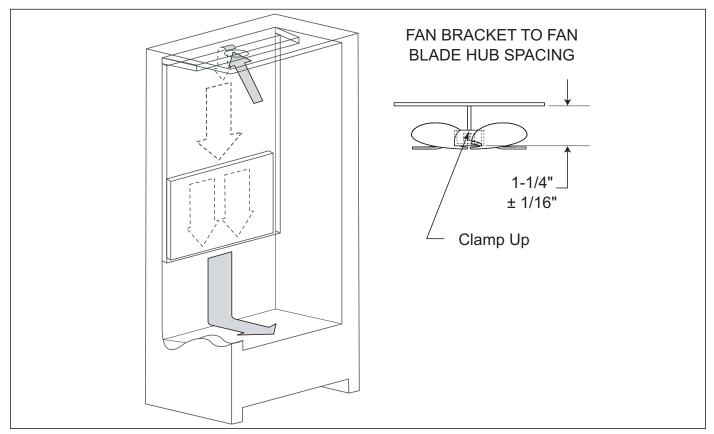


Figure 5-2. Air Flow and Fan Blade Spacing, Model 601F

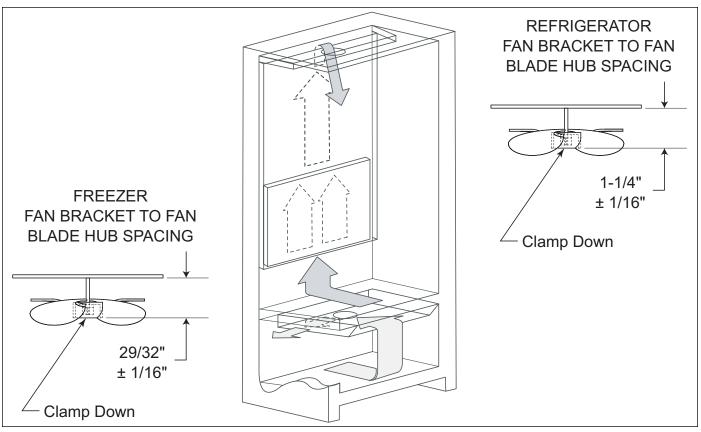


Figure 5-3. Air Flow and Fan Blade Spacing, Models 611, 611G, 650 and 650G

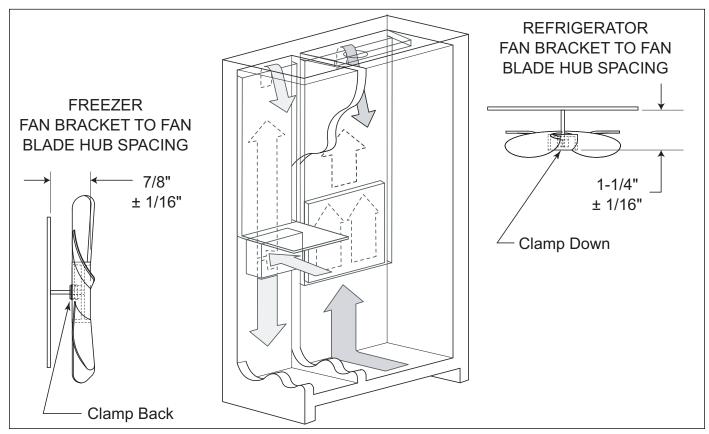


Figure 5-4. Air Flow and Fan Blade Spacing, Models 632 and 642

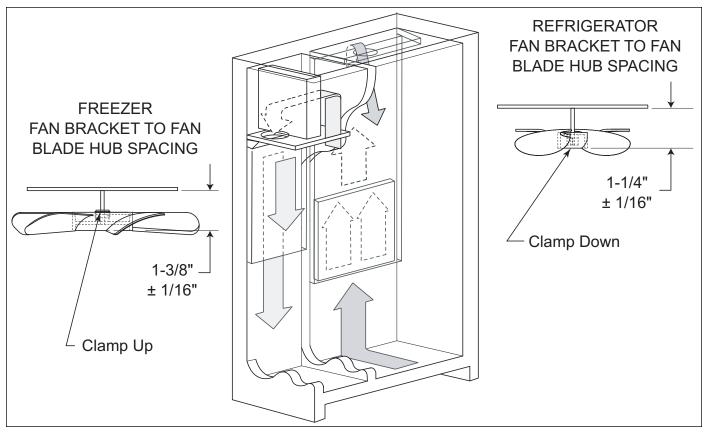


Figure 5-5. Air Flow and Fan Blade Spacing, Model 680

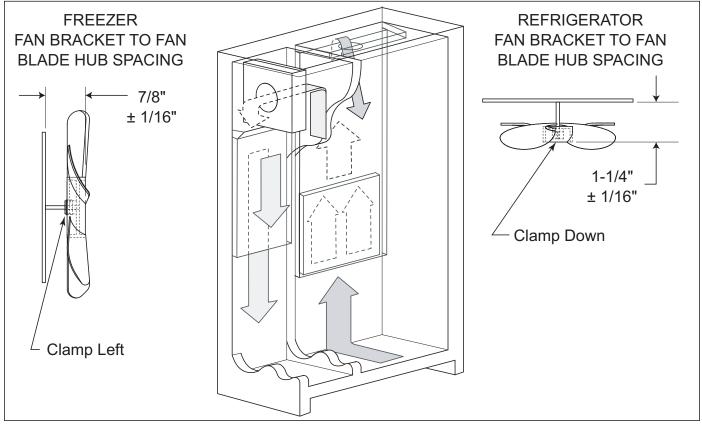


Figure 5-6. Air Flow and Fan Blade Spacing, Model 690

SECTION 6 ICEMAKER INFORMATION



ICEMAKER SYSTEM INFORMATION

All 600 series units utilize a MidSouth icemaker. An Icemaker's operation is not complex, but understanding its components and its operation cycle is necessary for a Service Technician to understand in order to make a proper diagnosis.

A WARNING

TO AVOID ELECTRIC SHOCK, ALWAYS DISCONNECT ELECTRICAL POWER TO UNIT WHEN SERVICING ICEMAKER.

NOTE: The ICE ON/OFF key at the control panel activates the icemaker system. If "ICE" is not displayed on the LCD, the icemaker system will not function.

NOTE: To allow ice to freeze fully and reduce effects of low water pressure, the electronic control disables the icemaker system for 45 minutes after each ice harvest.

NOTE: The ice bucket in models 601F, 611 and 650, have a tab at the left rear corner that activates a switch when the ice bucket is in place. The ice bucket in the models 680 and 690 also activates a switch when in place. If the ice bucket is not in proper position on any model, ice production will stop.

NOTE: The icemaker relay on the control board also controls the fill tube heater and water valve.

ICEMAKER COMPONENTS

Following are descriptions that explain the function of each icemaker component. The components are diagramed in Figure 6-1 on the next page.

Support - The support is the housing around the electrical components and wire connections. The support is attached to the ice mold.

Mounting Plate - The drive motor, holding switch, water valve solenoid switch, timing gear, timing cam and water fill adjusting screw are attached to the metal mounting plate. The mounting plate is then attached to the support.

Drive Motor - 115 volts AC supplied to the drive motor causes the motor to operate. The motor has a single output shaft with a small gear. The motor gear drives/spins the timing gear.

Timing Gear - The timing gear is driven/spun by the drive motor gear and is attached to the timing cam.

Timing Cam - The timing cam is attached to the timing gear and the ice ejector is inserted into the center of the timing cam. As the timing cam rotates, high and low spots on the cam operate the water valve solenoid switch and the holding switch. The timing cam also moves the lever arm side to side and rotates the ice ejector.

Ice Mold - The ice mold is where the eight crescent shaped ice cubes are formed.

Mold Heater - The mold heater uses 175 watts to thaw the ice free from the mold.

Ice Ejector - The drive end of the ice ejector is "D" shaped to fit into the "D" shaped hole in the timing cam. It has eight blades which rotate and sweep the ice from the mold cavities during the ejection phase of the cycle.

Ice Stripper - The stripper is attached to the dumping side of the mold, serving as a decorative side cover and it also prevents ice from falling back into the mold.

Bearing / Inlet - The bearing / inlet is attached to the ice mold, opposite the support. Water enters the bearing / inlet and is directed to the ice mold. The bearing/inlet also supports the ice ejector at the end opposite the timing cam.

Thermostat - The thermostat is a single-pole, single-throw, bi-metal switch. At 15°F/± 3°F it closes, starting the ice ejection phase.

Thermal-Mastic - A substance similar in appearance to grease that is applied between the thermostat and the ice mold. Its purpose is to increase thermal conductivity between the mold and the thermostat.

Lever Arm and Shut-off Arm - The lever arm is moved side to side by two revolutions of the timing cam. As it moves, it raises and lowers the shut-off arm and operates the shut-off switch to control the quantity of ice production. If the shut-off arm comes to rest on top of the ice in the storage bin during either revolution, the shut-off switch will remain open, stopping ice production at the end of that revolution.

Water Valve Solenoid Switch - A single-pole, doublethrow type switch that allows electricity to the water valve solenoid, opening the valve, during the fill cycle.

Holding Switch - A single-pole, double-throw type switch that assures completion of a revolution once the icemaker has been energized.

Shut-off Switch - A single-pole, double-throw type switch that stops ice production when the ice bin is full.

TCO (**Thermal Cut Out**) - The TCO is thermal protection device in the wire harness that would open in the event of mechanical failure, thus protecting against over heating. (The TCO is not shown in diagram.)

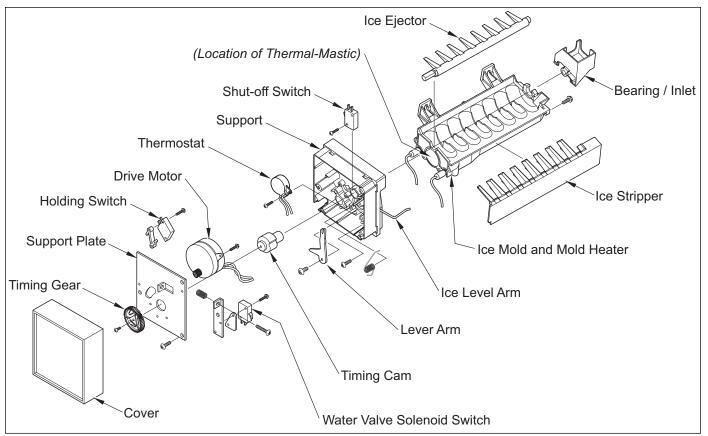


Figure 6-1. Diagram of Icemaker Components

ICEMAKER OPERATION

The following series of electrical schematics illustrate a typical icemaker cycle of operation. Below each schematic is a diagram indicating the approximate location of the ice ejector and ice level arm during the phase the schematic indicates.

Freeze Phase of Ice Making Cycle (See Figure 6-2)

- · The ice mold is filled with water.
- The thermostat is open.
- · No icemaker components are energized.

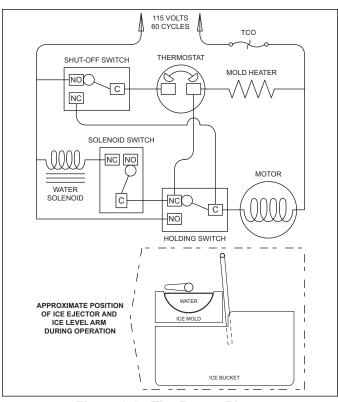


Figure 6-2. The Freeze Phase

Start of the First Revolution (See Figure 6-3)

- The water in the ice mold has turned to ice.
- At 15°F/± 3°F the thermostat closes.
- The mold heater is energized through the thermostat.
- The drive motor is started through the thermostat and "normally closed" terminal of the holding switch.
- The ice ejector begins to turn and the shut-off arm begins to rise.

115 VOLTS 60 CYCLES THERMOSTAT SHUT-OFF SWITCH MOLD HEATER NO NC SOLENOID SWITCH NC NO MOTOR WATER SOLENOID С HOLDING SWITCH APPROXIMATE POSITION OF ICE EJECTOR AND ICE I EVEL ARM DURING OPERATION

Figure 6-3. Start of First Revolution

First Revolution Continued (See Figure 6-4)

- The holding switch is tripped by the timing cam to "normally open" thus holding power to the motor.
- The mold heater remains energized through the thermostat.
- · The shut-off arm begins to rise.

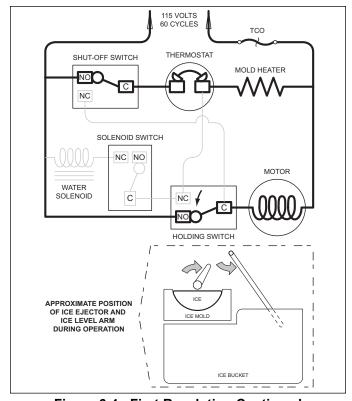


Figure 6-4. First Revolution Continued

First Revolution Continued (See Figure 6-5)

- The ice ejector reach the ice in the mold.
- The ice releases from the mold as the ejector blades begin to rotate the cubes out.
- The drive motor remains energized through the holding switch.
- The mold heater remains energized through the thermostat.
- As the shut-off arm rises, the shut off switch is tripped to "normally closed", and then the shut-off arm begins to lower.

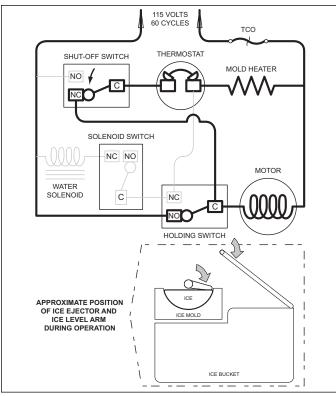


Figure 6-5. First Revolution Continued

First Revolution Continued (See Figure 6-6)

- · The ice has released from the mold.
- The motor remains energized through the holding switch.
- The shut-off arm is lowered and the shut off switch is tripped to "normally open".
- The water valve solenoid switch is tripped by the timing cam, but the solenoid is not energized because the thermostat is still closed and energizing the mold heater. (Electric current follows the path of least resistance.)

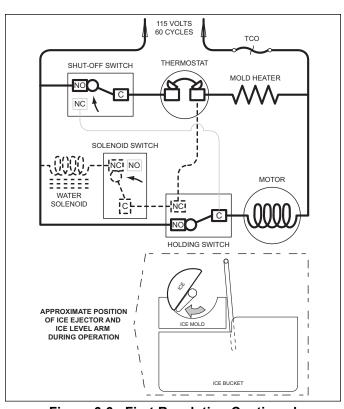


Figure 6-6. First Revolution Continued

End of First Revolution (See Figure 6-7)

- The water valve solenoid switch is tripped by the timing cam back to "normally open."
- The timing cam trips the holding switch to "normally close," which ends the first revolution, but the thermostat is still closed, so the motor is again started.
- The mold heater remains energized through the thermostat.

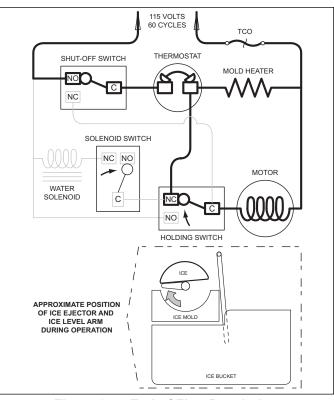


Figure 6-7. End of First Revolution

Start of Second Revolution:(See Figure 6-8)

- The water valve solenoid switch is tripped by the timing cam back to "normally open."
- The timing cam trips the holding switch to "normally close," which ends the first revolution, but the thermostat is still closed, so the motor is again started.
- The mold heater remains energized through the thermostat.

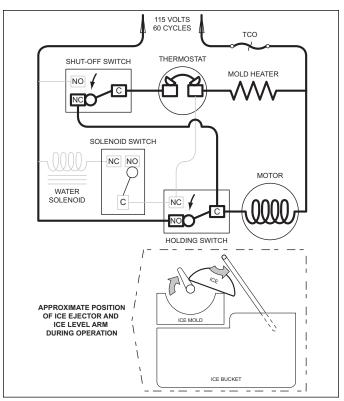


Figure 6-8. Start of Second Revolution

Second Revolution Continued (See Figure 6-9)

- The mold heater has warmed the thermostat, so the thermostat opens, and the mold heater is de-energized.
- If the shut-off arm comes to rest on top of the ice in the storage bin (as illustrated), so the shut-off switch will remain in the "normally closed" position.
- The motor remains energized through the holding switch.

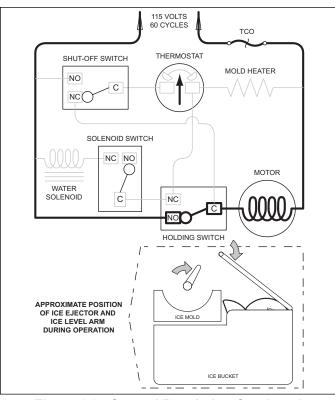


Figure 6-9. Second Revolution Continued

Second Revolution Continued (See Figure 6-10)

- The water valve solenoid switch is tripped by the timing cam. This time the solenoid is energized because the thermostat is open. The water solenoid is open for approximately seven seconds, filling the ice mold with water.
- the mold heater is energized through the solenoid switch and holding switch.

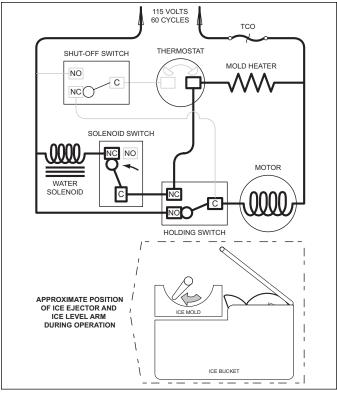


Figure 6-10. Second Revolution Continued

End of Ice making Cycle (See Figure 6-11)

- The water valve solenoid switch is tripped by the timing cam back to "normally open" ending the water fill.
- The timing cam trips the holding switch to "normally close," which ends the second revolution.
- The thermostat is still open, so it does not start the drive motor.
- If the shut-off arm has come to rest on top of the ice in the storage bin (as illustrated), the shut-off switch remains in the "normally closed" position.
 This interrupts power from reaching the thermostat, until sufficient ice has been removed from the storage bin allowing the shut-off arm to lower.

NOTE: To allow ice to freeze fully and reduce effects of low water pressure, the electronic control system disables the icemaker system for 45 minutes after each ice harvest.

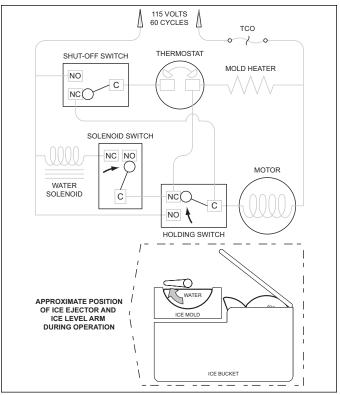


Figure 6-11. End of Ice Making Cycle

MANUALLY STOPPING ICE PRODUCTION

Ice production can be manually stopped four ways:

- 1. Press the ICE ON/OFF key on the control panel so that "ICE" is not displayed on the LCD.
- 2. In model 632 and 642, trip the icemaker switch above the ice bucket to the OFF position.
- 3. In models 601F, 611, 650, 680 and 690, remove the ice bucket so that the icemaker switch at the back of the freezer is not being depressed. Also, make sure no food product is coming in contact with the icemaker switch.
- 4. In models 611, 650, 680 and 690, lift the ice level arm up to lock it in the OFF position (See Figure 6-12).

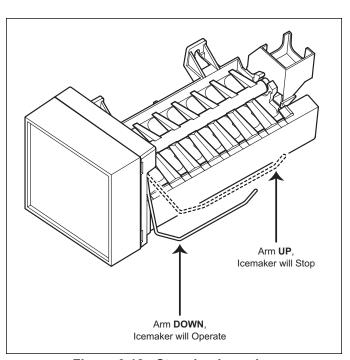


Figure 6-12. Stopping Icemaker



MANUALLY STARTING THE ICEMAKER

NOTE: To allow ice to freeze fully and reduce effects of low water pressure, the electronic control disables the icemaker system for 45 minutes after each ice harvest. To bypass this 45 minute dwell for service purposes, press the the ICE ON/OFF key or the UNIT ON/OFF key at the control panel.

Manual Start Procedure

- 1. Pry the icemaker front cover from the support using a flat-blade screwdriver or coin.
- 2. With a flat-blade screwdriver, turn the drive gear counterclockwise until the holding switch is activated, completing the circuit to the drive motor (this will be about a 1/8 turn). (See Figure 6-13) The icemaker will then complete its cycle automatically.

NOTE: If after 1/4 turn the icemaker is not running on its own, it may be in the 45 minute dwell period or there is an electrical or mechanical problem.

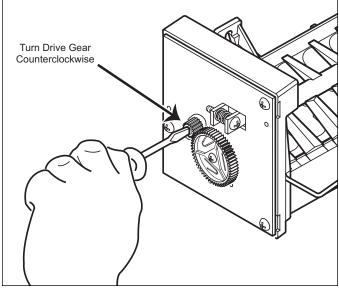


Figure 6-13. Manually Start Icemaker

ADJUSTING ICEMAKER WATER FILL LEVEL

Proper water fill level for a MidSouth icemaker is 100 - 110 cc's (3.5 - 3.75 oz). If the fill level is checked and needs to be adjusted, turn the water fill adjusting screw clockwise to reduce fill level, or counterclockwise to increase fill level. One full turn of the screw equals 15 cc's. (See Figure 6-14)

NOTE: Always check fill level before making any adjustments of the water fill adjusting screw.

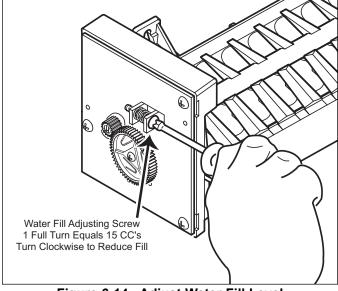


Figure 6-14. Adjust Water Fill Level

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SECTION 8

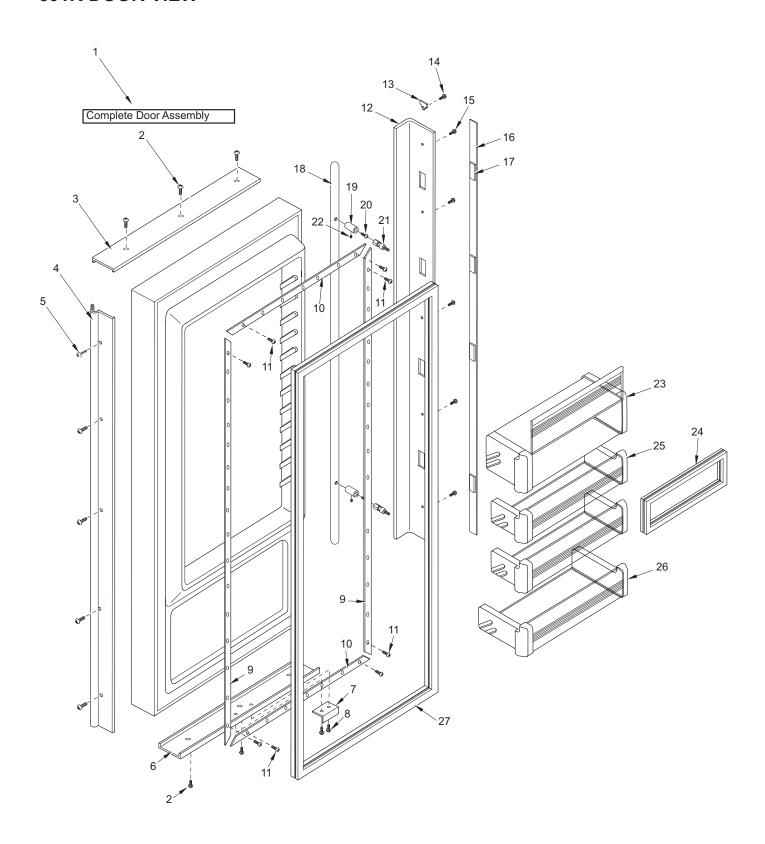
PARTS LISTS & & EXPLODED VIEWS



601R DOOR PARTS LIST

| Ref# | Part # | Description |
|------|---------|--|
| 1 | 4134353 | Refrig. Door Assy, Frame/Overlay - RH |
| | 4134354 | Refrig. Door Assy, Frame/Overlay - LH |
| | 4134503 | Refrig. Door Assy, SS - RH |
| | 4134504 | Refrig. Door Assy, SS - LH |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 3 | 2230608 | Door Trim, Top LH |
| | 2230609 | Door Trim, Top RH |
| 4 | 3511310 | Door Trim, Hinge Side - Mitered Corner |
| | 3511410 | Door Trim, Hinge Side - (SS Model) |
| 5 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 6 | 2230606 | Door Trim, Bottom LH |
| | 2230607 | Door Trim, Bottom RH |
| 7 | 0180281 | Switch Depressor, White |
| 8 | 6201300 | Tapping Screw, #8 x 1/2 |
| 9 | 3420250 | Gasket Retainer, Side, 57.875 |
| 10 | 3420220 | Gasket Retainer, 33.312" |
| 11 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 12 | 4132230 | Door Handle Assy (Framed) |
| | 4132330 | Handle-side Door Trim (Overlay) |
| 13 | 3413340 | Handle/Trim End Cap |
| 14 | 6180160 | Rivet, Open End Blind, 1/8 X 3/16 |
| 15 | 6201300 | Tapping Screw, #8 x 1/2 |
| 16 | 4132370 | Handle/Trim Molding Assy |
| 17 | 3451000 | Magnet, Trim Strip - 3" |
| 18 | 4132410 | Handle Assy, Round (Incl. Stand-offs) (See SN Breaks) |
| | 4133510 | Handle Assy, Blunt (Incl. Stand-offs) (See SN Breaks) |
| | 4133690 | Handle Assy, SS OBR Standoffs (Incl. Stand-offs) (See SN Breaks) |
| 19 | 3511320 | Handle Stand-off 1" D (See SN Breaks) |
| | 3512150 | Standoff, SS Oval, Door (See SN Breaks) |
| 20 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 21 | 3511520 | Handle Mounting Stud |
| 22 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| 23 | 4330490 | Dairy Compartment Assy (Incl Gasket) |
| 24 | 3211820 | Dairy Compartment Gasket |
| 25 | 4330480 | Door Shelf Assy |
| 26 | 4330530 | Gallon Door Shelf Assy (Sales Acc.) |
| 27 | 3212100 | Door Gasket |

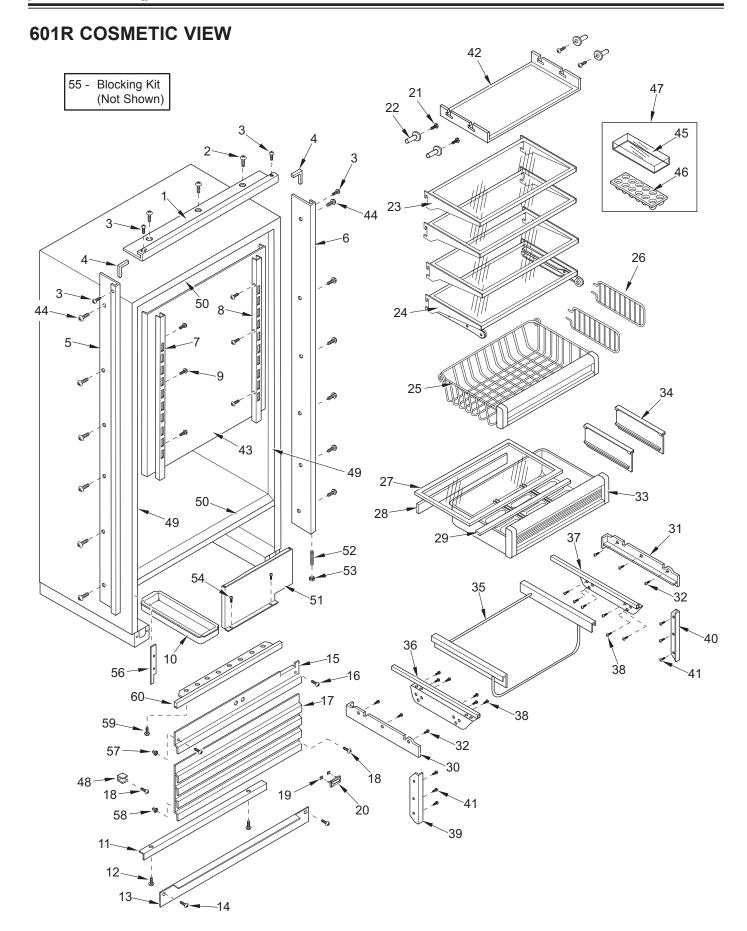
601R DOOR VIEW





601R COSMETIC PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref# | Part # | <u>Description</u> |
|------|---------|---------------------------------------|------|---------|---------------------------------------|
| 1 | 2229616 | Main Frame, Top-RH (See SN Breaks) | 21 | 6201330 | Screw, #8 PH-Pan Head 1" |
| ' | 2229637 | Main Frame, Top-RH (See SN Breaks) | 22 | 3520420 | Insert / Diffuser Stand-off |
| | 2234015 | Frame, Main Top-RH (See SN Breaks) | 23 | 3601901 | Glass Shelf, Spill Proof |
| | 2229617 | Main Frame, Top-LH (See SN Breaks) | 24 | 4181620 | Refrig. Roll-out Shelf Assy |
| | 2229640 | Main Frame, Top-LH (See SN Breaks) | 25 | 4181520 | Refrig. Roll-Out Basket Assy |
| | 2234015 | Frame, Main Top-LH (See SN Breaks) | 26 | 3411160 | Refrig. Roll-Out Basket Divider |
| 2 | 6200010 | Screw, #10-12 x 3/4 Pan HD | 27 | 4151750 | Crisper Glass Assy (Incl. Seals) |
| 3 | 6200070 | Screw, #4-24 x 3/8" Flat HD. | 28 | 3211760 | Crisper Glass Seal, Rear |
| 4 | 2210701 | Main Frame Angle | 29 | 3211730 | Crisper Glass Seal, Front |
| 5 | 2229603 | Main Frame, Left-RH (See SN Breaks) | 30 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| Ü | 2229636 | Main Frame, Left-RH (See SN Breaks) | | 3421722 | Top Crisper glass Support, Wide-LH |
| | 2234004 | Frame, Main Left-RH (See SN Breaks) | 31 | 3421712 | Top Crisper Glass Support, Narrow-LH |
| | 2229619 | Main Frame, Left-LH (See SN Breaks) | 01 | 3421721 | Top Crisper Glass Support, Wide-RH |
| | 2229641 | Main Frame, Left-LH (See SN Breaks) | 32 | 6201130 | Screw, #8x 1/2 Ph Fl Hd SS |
| | 2234005 | Frame, Main Left-LH (See SN Breaks) | 33 | 4181440 | High Humidity Drawer Assy |
| 6 | 2229618 | Main Frame, Right-RH(See SN Breaks) | 34 | 3413100 | Drawer Divider |
| Ū | 2229638 | Main Frame, Right-RH(See SN Breaks) | 35 | 3421770 | Humidity Drawer Slide-Frame |
| | 2234003 | Frame, Main Right-RH(See SN Breaks) | 36 | 4181412 | Top Crisper Slide Assy, Wide-LH |
| | 2229602 | Main Frame, Right-LH (See SN Breaks) | | 4181421 | Top Crisper Slide Assy, Narrow-RH |
| | 2229639 | Main Frame, Right-LH (See SN Breaks) | 37 | 4181411 | Top Crisper Slide Assembly, Wide-RH |
| | 2234006 | Frame, Main Side-LH (See SN Breaks) | | 4181422 | Top Crisper Slide Assy, Narrow-LH |
| 7 | 3601832 | Shelf Ladder, Left | 38 | 6201270 | Screw, #8-18 x 5/8 Ph Pn SS-Gnd |
| 8 | 3601831 | Shelf Ladder, Right | 39 | 3421741 | Crisper Filler Strip, Narrow (if RH) |
| 9 | 6200710 | Screw, #8-18 x 3/8 Fillister HD | | 3421742 | Crisper Filler Strip, Wide (if LH) |
| 10 | 0166110 | Drain Pan | 40 | 3421741 | Crisper Filler Strip, Narrow (if LH) |
| 11 | 0169790 | Front Rail | | 3421742 | Crisper Filler Strip, Wide (if RH) |
| 12 | 6110020 | Bolt, #10-24 x 3/8 Truss HD | 41 | 6201270 | Screw, #8-18 x 5/8 Ph Pn SS-Gnd |
| 13 | 0169520 | Kickplate | 42 | 4161870 | Refrig. Light Diffuser Assy |
| | 0167820 | Kickplate, Stainless Steel | 43 | 0201240 | Evaporator Cover |
| 14 | 6200050 | Screw, #10-12 Pan Hd | 44 | 6200210 | Screw, #8-32 Flt hD (See SN Breaks) |
| | 6200720 | Screw, #8-18x1/2 Ph Tr Hd (SS Model) | | 6201550 | Screw, #8-18 Lw Prfl (See SN Breaks) |
| 15 | 2232001 | Upper Grille - RH (See SN Breaks) | 45 | 3412280 | Egg Tray Cover |
| | 2233901 | Upper Grille - RH | 46 | 3412270 | Egg Tray |
| | | - Framed / Overlay (See SN Breaks) | 47 | 4131810 | Egg Tray with Cover |
| | | - SS (See SN Breaks) | 48 | 3450910 | Clip, Grille (SS Model) |
| | 0261281 | Cover, Grille RH (SS) (See SN Breaks) | 49 | 2811207 | Breaker Strip, Side (See SN Breaks) |
| | 2232002 | Upper Grille - LH (See SN Breaks) | 50 | 2811206 | Braker Strip, Top/Bot (See SN Breaks) |
| | 2233902 | Upper Grille - LH | 51 | 4280860 | Compressor Shroud (See SN Breaks) |
| | | - Framed / Overlay (See SN Breaks) | | 4281060 | Shroud Assy, Comp (See SN Breaks) |
| | | - SS (See SN Breaks) | 52 | 3550190 | Bottom Hinge Stud |
| | 0261282 | Cover, Grille LH (SS) (See SN Breaks) | 53 | 6150200 | Nut, 1/4-20 Hex |
| 16 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 54 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 4242250 | Lwr Grille Section (Framed / Overlay) | 55 | 4201320 | Blocking Kit, 36" (Not Shown) |
| | 4241740 | Lwr Grille Sectn (SS) (See SN Breaks) | 56 | 3580882 | Grille, Spacer LH (See SN Breaks) |
| | 4242380 | Grille Assy, SS (See SN Breaks) | | 3580881 | Grille, Spacer RH (See SN Breaks) |
| 18 | 6200790 | Screw, #8-18 Black | 57 | 6220320 | Screw Grmt (See SN Breaks) |
| 19 | 6150140 | Spring Grip Nut, 1/8 | 58 | 6220050 | Screw Grmt,1/2X5/8 (See SN Breaks) |
| 20 | 3580210 | Name Plate, Stick-on | 59 | 6201550 | Screw, #8-1/8 Low Profile |
| | 3580230 | Name Plate w/ Pegs | 60 | 3516670 | Trim, Grille Cover (SS) |

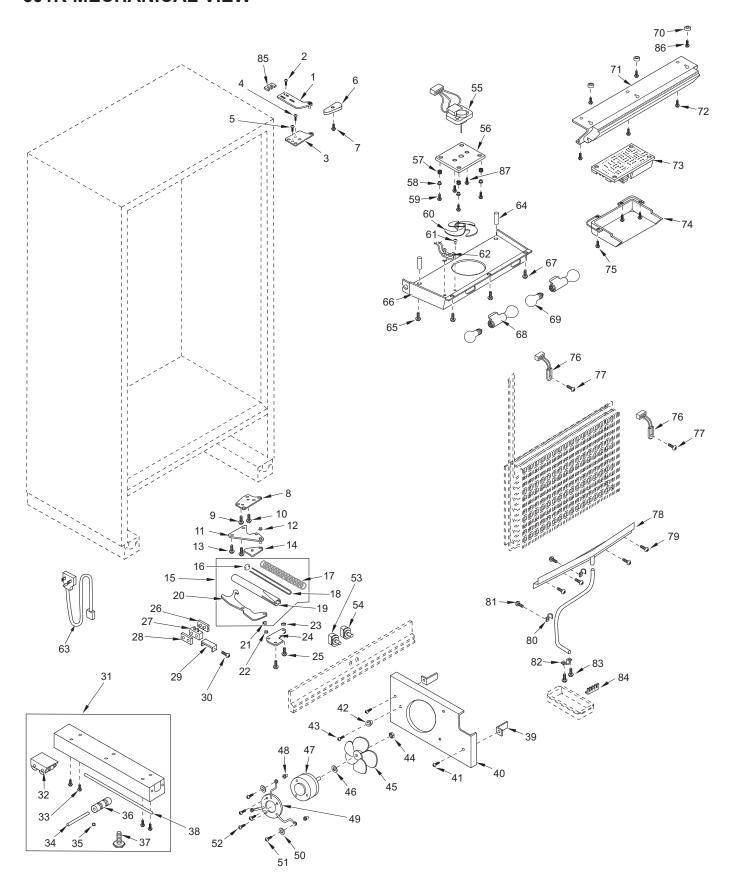




601R MECHANICAL PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|----------|--------------------|---|----------|--------------------|---|
| 1 | 4151271 | Cabinet Hinge Assy, Upper RH | l 43 | 6200450 | Screw, #8 x 1" Type AR Flat |
| | 4151271 | Cabinet Hinge Assy, Upper LH | 44 | 6150410 | Nut, 1/4-20 |
| 2 | 6110070 | Bolt, 1/4-20 x 3/4" Spinlock Zinc | 45 | 3150320 | Fan Blade, Cond -5 prop |
| 3 | 4151471 | Door Hinge Assy, Top RH | 46 | 3210340 | Neoprene Silencer, 7/8" |
| O | 4151472 | Door Hinge Assy, Top LH | 47 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) |
| 4 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 48 | 6150330 | Well Nut, .75D x .804", #10-32 |
| 5 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 49 | 3150650 | Condenser Fan Bracket |
| 6 | 3541017 | Top Cabinet Hinge Cover, RH | 50 | 6240350 | Fender Washer, .25x1.25x.06 |
| · · | 3541018 | Top Cabinet Hinge Cover, LH | 51 | 6201280 | Machine Screw, #10-32 x 1-1/4" |
| 7 | 6200140 | Screw, #8-15 x 3/8" Truss HD | 52 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 |
| 8 | 4151241 | Door Hinge, Bottom RH | 53 | 3060030 | Light Switch, N/C |
| | 4151242 | Door Hinge, Bottom LH | 54 | 3060020 | Fan Switch, N/O |
| 9 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 55 | 4200170 | Ref Fan Motor Pkg. (blade not incl.) |
| 10 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 56 | 0211620 | Refrigerator Fan Bracket |
| 11 | 4151871 | Bottom Cabinet Hinge Assembly - RH | 57 | 3220250 | Grommet, Rubber-M5351 |
| | 4151872 | Bottom Cabinet Hinge Assembly - LH | 58 | 3520410 | Brass Insert, Fan |
| 12 | 3421270 | Hinge Bearing, 3/8" x 5/8" | 59 | 6200130 | Screw, #8-18 x 3/4" Truss HD |
| 13 | 6110070 | Bolt, 1/4-20 x 3/4" Spinlock Zinc | 60 | 3150640 | Fan Blade, Evaporator |
| 14 | DS90 | Door Stop-90 Degree | 61 | 6180010 | Pop Rivet, 1/8" |
| | DS105 | Door Stop-105 Degree | 62 | 3082140 | Light Terminator |
| 15 | 4201113 | Door Closer Assembly, RH | 63 | 4321820 | Power Cord |
| | 4201114 | Door Closer Assembly, LH | 64 | 6220540 | Screw Grommet/Stand-off, 1.375 |
| 16 | 0165980 | Door Closer Spring Retainer | 65 | 6201010 | Screw, #8-15 x 2" Pan Head |
| 17 | 3450530 | Door Closer Spring | 66 | 4161820 | Refrig. Fan Shroud Assembly |
| | 3450710 | Low Pull Spring | 67 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 18 | 3421290 | Door Closer Linkage | 68 | 3050180 | Light Socket, Double (See SN breaks) |
| 19 | 3421300 | Door Closer Housing | | 3050250 | Skt, Light MBase Dbl (See SN breaks) |
| 20 | 0183110 | Door Closer Arm | 69 | 3030030 | Light Bulb, 40 Watt |
| 21 | 3450550 | E-Ring / Klipring , 5/16" | 70 | 6160240 | Nylon Spacer |
| 22 | 3421260 | Door Closer Bearing | 71 | 4160792 | Control Panel Assy (See SN Breaks) |
| 23 | 6160220 | Steel Spacer | | 4161662 | Control Panel Assy (See SN Breaks) |
| 24 | 0183960 | Cabinet Hinge Stiffener | 72 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 25 | 6110450 | Bolt, 1/4-20 x 1/2" Whiz Lock | 73 | 4202802 | Control Board (See SN Breaks) |
| 26 | 3450570 | Door Closer Cushion | | 4203520 | Control Board (See SN Breaks) |
| 27 | 0165970 | Door Closer Guide Support | 74 | 3412790 | Control Board Encl (See SN Breaks) |
| 28 | 3421310 | Door Closer Guide | | 3413940 | Control Board Encl (See SN Breaks) |
| 29 | 0166360 | Door Closer Cushion Retainer | 75 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 30 | 6180010 | Pop Rivet, 1/8" | 76 | 3014350 | Thermistor |
| 31 | 4110353 | Base Assy (w/rollers) | 77 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 32 | 4110331 | Base Rear Roller Assy | 78 | 4190150 | Drain Trough Assy (See SN Breaks) |
| 33 | 6200010 | Screw, #10-12 x 3/4" Pan HD | | 0260540 | Drain Trough Assy (See SN Breaks) |
| 34 | 3550560 | Straight Pin, Base Assy312" x 2.88" | 79 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 35 | 3450620 | Canoe Clip | 80 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 36 | 3421240 | Cabinet Roller | 81 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 37 | 3570050 | Leveling Leg, #18-3/8 x 1" | 82 | 6120210 | U-Clamp, 5/8" |
| 38 | 6110580 | Adjusting Screw | 83 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 39 40 | 3450290 | Angle Bracket | 84 | 3421430 | Pan Heater Support |
| 40 | 0260140 | Cond. Fan Shroud (See SN Breaks) | 85 | 0168680 | Shim - Hinge |
| 11 | 0168070 6200010 | Cond. Fan Shroud (See SN Breaks) Screw, #10-12 x 3/4" Pan HD | 86 87 | 6200720 6110270 | Screw, #8-18 x 1/2 PH Truss HD Bolt, #10-32 x 1/4" RD HD |
| 41 42 | 3420670 | Screw Spacer | 0/ | 0110270 | DOIL, #10-32 X 1/4 KU NU |

601R MECHANICAL VIEW

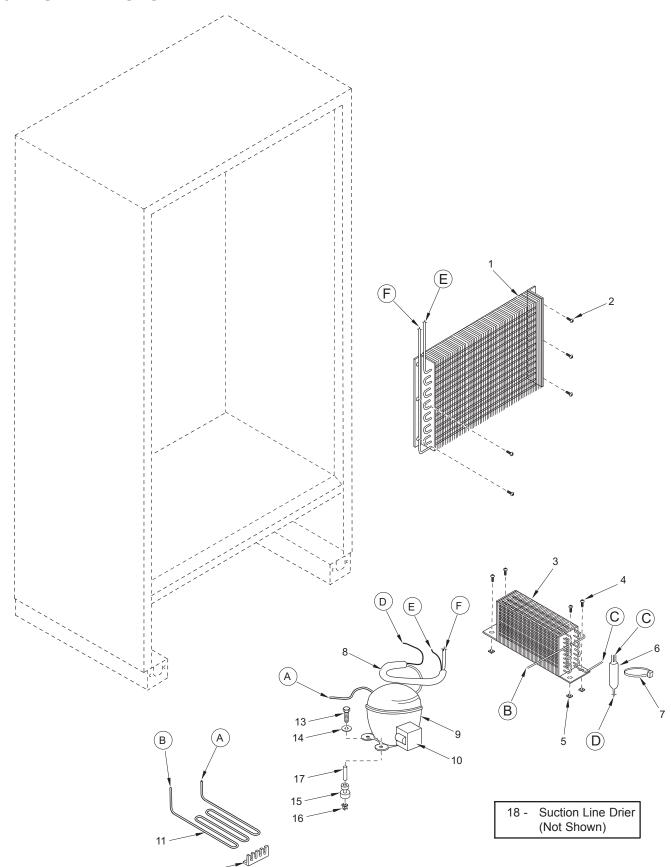




601R SEALED SYSTEM PARTS LIST

| Ref# | Part # | <u>Description</u> |
|------|---------|-----------------------------------|
| 1 | 3130390 | Evaporator, Ref (See SN Breaks) |
| | 3130610 | Evaporator, Ref (See SN Breaks) |
| 2 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 3 | 3120320 | Condenser (See SN Breaks) |
| | 3120390 | Condenser (See SN Breaks) |
| 4 | 6110020 | Bolt, #10-24 x 3/8" Truss HD |
| 5 | 6150080 | Nut-Flat, #10-24 |
| 6 | 3014230 | Filter-Drier, High Side |
| 7 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 8 | 4251310 | Heat Exchanger |
| 9 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 10 | 3111370 | Relay (1351400) |
| | 3111410 | Overload (4TM734LFB) |
| 11 | 2600196 | Drain Pan Heater Loop |
| 12 | 3421430 | Pan Heater Support |
| 13 | 6200300 | Screw, 5/16-18 x 1-1/2" Hex |
| 14 | 6240050 | Flat Washer, 5/16" |
| 15 | 3150170 | Rubber Grommet, Large, 15/16" |
| 16 | 1801000 | Nylon Compressor Mount, 7/16" |
| 17 | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 18 | 3014100 | Suction Line Drier (Service Only) |

601R SEALED SYSTEM VIEW

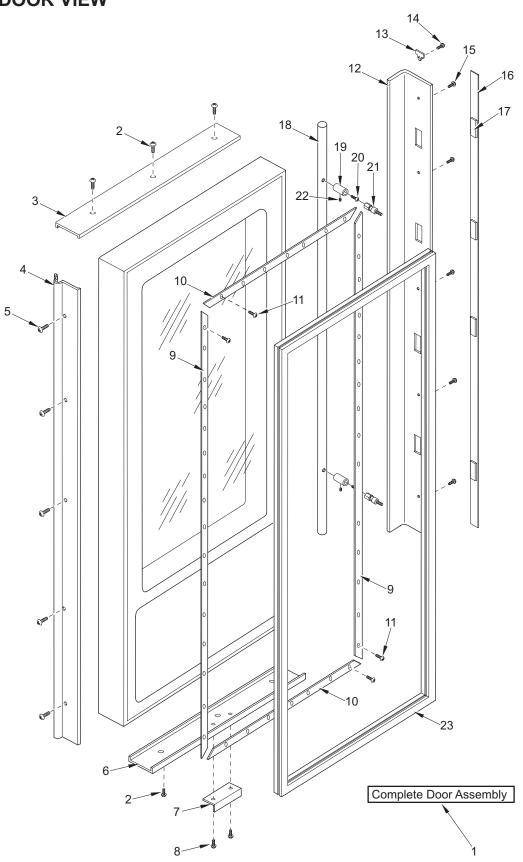




601RG DOOR PARTS LIST

| Ref# | Part # | <u>Description</u> |
|------|-----------|--|
| 1 | 4134615 | Refrig. Door Assy, Frame/Overlay - RH |
| | 4134616 | Refrig. Door Assy, Frame/Overlay - LH |
| | 4134617 | Refrig. Door Assy, Frame/Overlay (HAG) - RH |
| | 4134618 | Refrig. Door Assy, Frame/Overlay (HAG) - LH |
| | 4134635 | Refrig. Door Assy, SS - RH |
| | 4134636 | Refrig. Door Assy, SS - LH |
| | 4134637 | Refrig. Door Assy, SS (HAG) - RH |
| | 4134638 | Refrig. Door Assy, SS (HAG) - LH |
| | NOTE: All | Door Assy's include Wire Harness / Top Hinge Assy. |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 3 | 2230608 | Door Trim, Top LH |
| | 2230609 | Door Trim, Top RH |
| 4 | 3511310 | Door Trim, Hinge Side - Mitered Corner |
| | 3511410 | Door Trim, Hinge Side - (SS Model) |
| 5 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 6 | 2230606 | Door Trim, Bottom LH |
| | 2230607 | Door Trim, Bottom RH |
| 7 | 0185180 | Switch Depressor |
| 8 | 6201300 | Tapping Screw, #8 x 1/2 |
| 9 | 3420250 | Gasket Retainer, Side, 57.875 |
| 10 | 3420220 | Gasket Retainer, 33.312" |
| 11 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 12 | 4132230 | Door Handle Assy (Framed) |
| | 4132330 | Handle-side Door Trim (Overlay) |
| 13 | 3413340 | Handle/Trim End Cap |
| 14 | 6180160 | Rivet, Open End Blind, 1/8 X 3/16 |
| 15 | 6201300 | Tapping Screw, #8 x 1/2 |
| 16 | 4132370 | Handle/Trim Molding Assy |
| 17 | 3451000 | Magnet, Trim Strip - 3" |
| 18 | 4133510 | Handle Assy, Blunt (Incl. Stand-offs) - (See SN Breaks) |
| | 4133690 | Handle Assy, SS OBR Standoffs (Incl. Stand-offs) - (See SN Breaks) |
| 19 | 3511320 | Handle Stand-off 1" D (See SN Breaks) |
| | 3512150 | Standoff, SS Oval, Door (See SN Breaks) |
| 20 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 21 | 3511520 | Handle Mounting Stud |
| 22 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| 23 | 3212100 | Door Gasket |

601RG DOOR VIEW

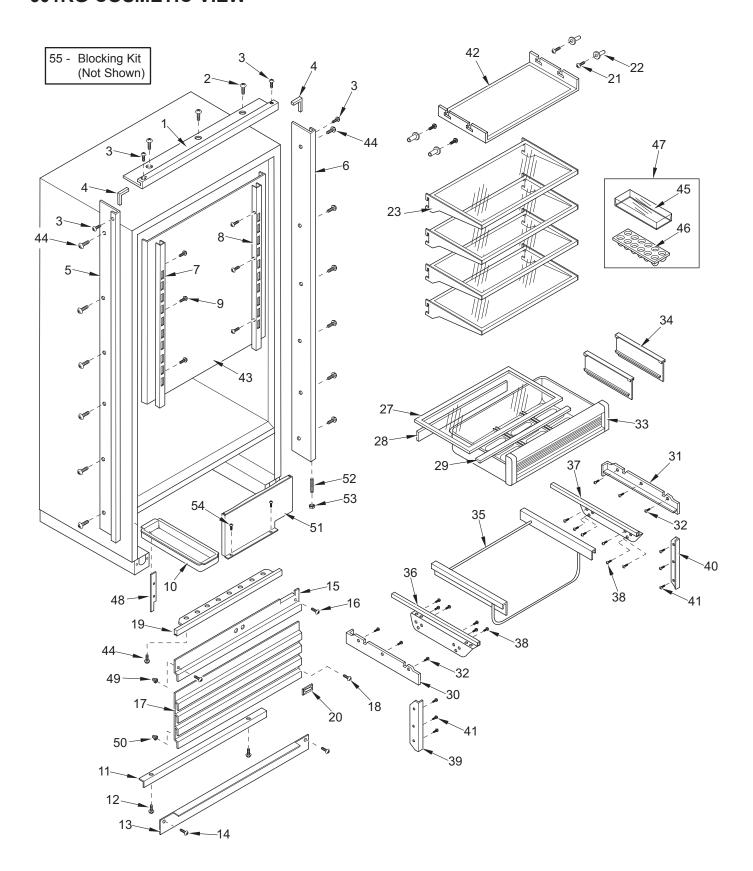




601RG COSMETIC PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref# | Part # | Description |
|------|---------|-------------------------------------|------|---------|--------------------------------------|
| 1 | 2234001 | Frame, Main Top 36 - RH | 27 | 4151750 | Crisper Glass Assy (Incl. Seals) |
| | 2234002 | Frame, Main Top 36 - LH | 28 | 3211760 | Crisper Glass Seal, Rear |
| 2 | 6200010 | Screw, #10-12 x 3/4 Pan HD | 29 | 3211730 | Crisper Glass Seal, Front |
| 3 | 6200070 | Screw, #4-24 x 3/8" Flat HD. | 30 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| 4 | 2210701 | Main Frame Angle | | 3421722 | Top Crisper glass Support, Wide-LH |
| 5 | 2234004 | Main Frame, Left-RH | 31 | 3421712 | Top Crisper Glass Support, Narrow-LH |
| | 2234005 | Main Frame, Left-LH | | 3421721 | Top Crisper Glass Support, Wide-RH |
| 6 | 2234003 | Frame, Main Side Right - RH | 32 | 6201130 | Screw, #8x 1/2 Ph Fl Hd SS |
| | 2234006 | Main Frame, Right-LH | 33 | 4181440 | High Humidity Drawer Assy |
| 7 | 3601832 | Shelf Ladder, Left | 34 | 3413100 | Drawer Divider |
| 8 | 3601831 | Shelf Ladder, Right | 35 | 3421770 | Humidity Drawer Slide-Frame |
| 9 | 6200710 | Screw, #8-18 x 3/8 Fillister HD | 36 | 4181412 | Top Crisper Slide Assy, Wide-LH |
| 10 | 0166110 | Drain Pan | | 4181421 | Top Crisper Slide Assy, Narrow-RH |
| 11 | 0169790 | Front Rail | 37 | 4181411 | Top Crisper Slide Assembly, Wide-RH |
| 12 | 6110020 | Bolt, #10-24 x 3/8 Truss HD | | 4181422 | Top Crisper Slide Assy, Narrow-LH |
| 13 | 0169520 | Kickplate | 38 | 6201270 | Screw, #8-18 x 5/8 Ph Pn SS-Gnd |
| | 0167820 | Kickplate, Stainless Steel | 39 | 3421741 | Crisper Filler Strip, Narrow (if RH) |
| 14 | 6200050 | Screw, #10-12 Pan Hd | | 3421742 | Crisper Filler Strip, Wide (if LH) |
| 15 | 2233901 | Upper Grille (Framed/Overlay) - RH | 40 | 3421741 | Crisper Filler Strip, Narrow (if LH) |
| | 2233902 | Upper Grille (Framed/Overlay) - LH | | 3421742 | Crisper Filler Strip, Wide (if RH) |
| | 0261281 | Cover, Grill (Stainless Steel) - RH | 41 | 6201270 | Screw, #8-18 x 5/8 Ph Pn SS-Gnd |
| | 0261282 | Cover, Grill (Stainless Steel) - LH | 42 | 4161870 | Refrig. Light Diffuser Assy |
| 16 | 6201510 | Screw, #8-18 x 3/4 PH Truss HD | 43 | 0201240 | Evaporator Cover |
| 17 | 4242250 | Grille Assy, Lwr (Framed/Overlay) | 44 | 6201550 | Screw, #8-1/8 Low Profile |
| | 4242360 | Grille Assy, SS (See SN Breaks) | 45 | 3412280 | Egg Tray Cover |
| | 4242380 | Grille Assy, SS (See SN Breaks) | 46 | 3412270 | Egg Tray |
| 18 | 6200790 | Screw, #8-18 Black (Framed/Overlay) | 47 | 4131810 | Egg Tray with Cover |
| 19 | 3516670 | Trim, Grille Cover (SS) | 48 | 3580882 | Grille, Spacer LH |
| 20 | 3580210 | Name Plate, Stick-on | | 3580881 | Grille, Spacer RH |
| 21 | 6201330 | Screw, #8 PH-Pan Head 1" | 49 | 6220320 | Screw Grmt |
| 22 | 3520420 | Insert / Diffuser Stand-off | 50 | 6220050 | Screw Grmt, 1/2X5/8 |
| 23 | 3602310 | Shelf, Glass Cantilever | 51 | 4281060 | Compressor Shroud Assy |
| 24 | NA | | 52 | 3550190 | Bottom Hinge Stud |
| 25 | NA | | 53 | 6150200 | Nut, 1/4-20 Hex |
| 26 | NA | | 54 | 6200020 | Screw, #7-16 X 1/2 Pan Hd |
| | | | 55 | 4201320 | Blocking Kit, 36" (Not Shown) |

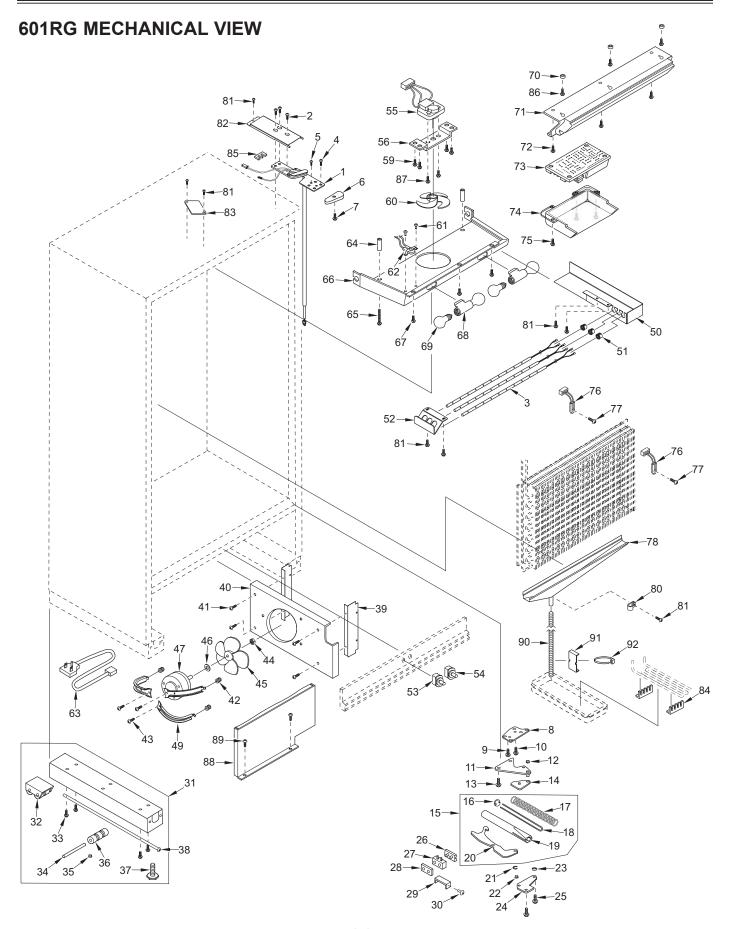
601RG COSMETIC VIEW





601RG MECHANICAL PARTS LIST

| Ref# | Part # | Description | Ref# | Part # | Description |
|------|---------|-------------------------------------|------|---------|---------------------------------------|
| 1 | 4325461 | Wire Harness/Hinge Assy, Door RH | 46 | 3210340 | Neoprene Silencer, 7/8" |
| | 4325462 | Wire Harness/Hinge Assy, Door LH | 47 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) |
| 2 | 6201140 | Screw 1/4-20 X 5/8 Sems But Hd | 48 | 6150330 | Well Nut, .75D x .804", #10-32 |
| 3 | 3030150 | Strip, Light 15 Watt | 49 | 0261150 | Condenser Fan Bracket |
| 4 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 50 | 0212740 | Light Box |
| 5 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 51 | 3220810 | Grommet, Open/Closed 1/2" |
| 6 | 3541017 | Top Cabinet Hinge Cover, RH | 52 | 0261330 | Bracket, Light |
| | 3541018 | Top Cabinet Hinge Cover, LH | 53 | 3060030 | Light Switch, N/C |
| 7 | 6200140 | Screw, #8-15 x 3/8" Truss HD | 54 | 3060020 | Fan Switch, N/O |
| 8 | 4151241 | Door Hinge, Bottom RH | 55 | 4200170 | Ref Fan Motor Pkg. (blade not incl.) |
| | 4151242 | Door Hinge, Bottom LH | 56 | 0212520 | Bracket, Fan (Production) |
| 9 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | | 0212540 | Bracket, Fan (In Srvc Pckg, 4200170) |
| 10 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 57 | 3220250 | Grommet, Rubber-M5351 |
| 11 | 4151871 | Bottom Cabinet Hinge Assembly - RH | 58 | 3520410 | Brass Insert, Fan |
| | 4151872 | Bottom Cabinet Hinge Assembly - LH | 59 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3421270 | Hinge Bearing, 3/8" x 5/8" | 60 | 3150640 | Fan Blade, Evaporator |
| 13 | 6110070 | Bolt, 1/4-20 x 3/4" Spinlock Zinc | 61 | 6180010 | Pop Rivet, 1/8" |
| 14 | DS90 | Door Stop-90 Degree | 62 | 3082140 | Light Terminator |
| | DS105 | Door Stop-105 Degree | 63 | 4321820 | Power Cord |
| 15 | 4201113 | Door Closer Assembly, RH | 64 | 6220220 | Screw, Grommet 1/32x3/8 Sq |
| | 4201114 | Door Closer Assembly, LH | 65 | 6201010 | Screw, #8-15 x 2" Pan Head |
| 16 | 0165980 | Door Closer Spring Retainer | 66 | 4162660 | Shroud Assy, Ref Fan |
| 17 | 3450530 | Door Closer Spring | 67 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 3450710 | Low Pull Spring | 68 | 3050180 | Light Socket, Double (See SN breaks) |
| 18 | 3421290 | Door Closer Linkage | | 3050250 | Skt, Light MBase Dbl (See SN breaks) |
| 19 | 3421300 | Door Closer Housing | 69 | 3030030 | Light Bulb, 40 Watt |
| 20 | 0183110 | Door Closer Arm | 70 | 6160240 | Nylon Spacer |
| 21 | 3450550 | E-Ring / Klipring , 5/16" | 71 | 4162652 | Control Panel Assy |
| 22 | 3421270 | Door Closer Bearing | 72 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 23 | 6160220 | Steel Spacer | 73 | 4203790 | Control Board |
| 24 | 0183960 | Cabinet Hinge Stiffener | 74 | 3413940 | Control Board Encl |
| 25 | 6110450 | Bolt, 1/4-20 x 1/2" Whiz Lock | 75 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 26 | 3450570 | Door Closer Cushion | 76 | 3014350 | Thermistor |
| 27 | 0165970 | Door Closer Guide Support | 77 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 28 | 3421310 | Door Closer Guide | 78 | 0260540 | Drain Trough Assy |
| 29 | 0166360 | Door Closer Cushion Retainer | 79 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 30 | 6180010 | Pop Rivet, 1/8" | 80 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 31 | 4110353 | Base Assy (w/rollers) | 81 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 32 | 4110331 | Base Rear Roller Assy | 82 | 0185190 | Cover, Hinge - LH |
| 33 | 6200010 | Screw, #10-12 x 3/4" Pan HD | | 0185210 | Cover, Hinge - RH |
| 34 | 3550560 | Straight Pin, Base Assy312" x 2.88" | 83 | 0261170 | Plate, Cover |
| 35 | 3450620 | Canoe Clip | 84 | 3421430 | Pan Heater Support |
| 36 | 3421240 | Cabinet Roller | 85 | 0164500 | Shim - Hinge (.040") |
| 37 | 3570050 | Leveling Leg, #18-3/8 x 1" | | 0164510 | Shim - Hinge (.060") |
| 38 | 6110580 | Adjusting Screw | 86 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD |
| 39 | 0260610 | Bracket, Condenser | 87 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 40 | 0261230 | Shroud, Condenser Fan | 88 | 4281060 | Compressor Shroud Assy |
| 41 | 6200050 | Screw, #10-12 X 1/2" Pan Hd | 89 | 6200020 | Screw, #7-16 X 1/2 Pan Hd |
| 42 | 3220360 | Grommet, Mounting Bracket | 90 | 1601400 | Tube, Drain 1/2" X 72" |
| 43 | 6200430 | Screw,#8-18x1/2 Ph Pan Hd B | 91 | 0261160 | Bracket, Drain Tube |
| 44 | 6150410 | Nut, 1/4-20 | 92 | 6120170 | Cable Tie, Red 11-1/2 |
| 45 | 3150320 | Fan Blade, Cond -5 prop | | | |

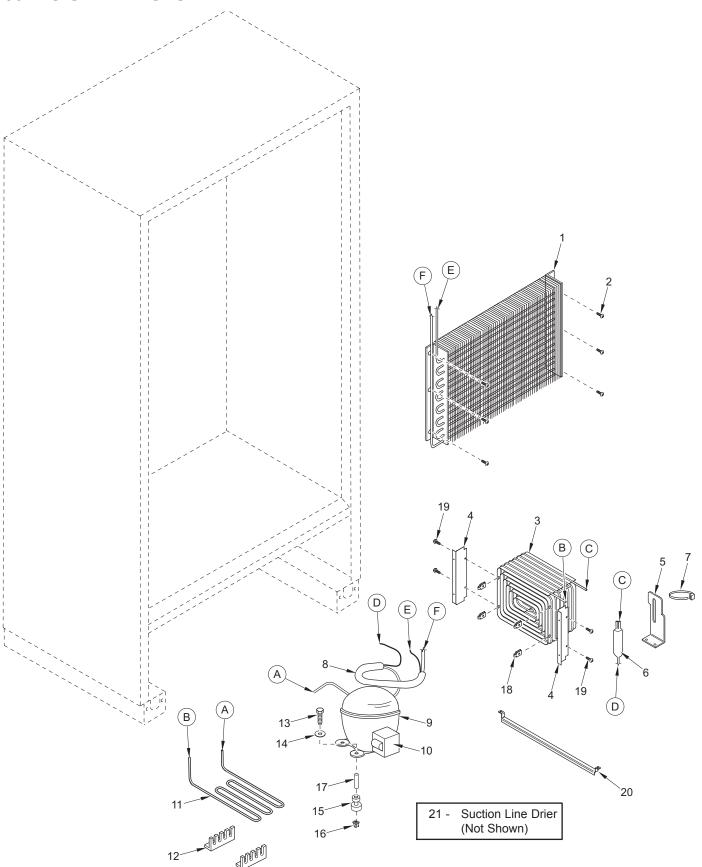




601RG SEALED SYSTEM PARTS LIST

| Ref# | Part # | <u>Description</u> |
|------|---------|---|
| 1 | 3130390 | Evaporator, Ref (See SN Breaks) |
| | 3130610 | Evaporator, Ref (See SN Breaks) |
| 2 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 3 | 3120390 | Condenser |
| 4 | 0260610 | Bracket, Condenser |
| 5 | 0168040 | Bracket, Drier |
| 6 | 3014230 | Filter-Drier, High Side |
| 7 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 8 | 4251310 | Heat Exchanger |
| 9 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 10 | 3111370 | Relay, 1351400 (For EMI30HER Service Compressor) |
| | 3111212 | Relay, 8EA103 (For EMU30 Production Compressor) |
| | 3111410 | Overload, 4TM734LFB (For EMI30HER Service Compressor) |
| | 3111310 | Overload, 4TM197NFB (For EMU30 Production Compressor) |
| | 3111070 | Capacitor, 12 Mf (For EMU30 Production Compressor) |
| 11 | 2600196 | Drain Pan Heater Loop |
| 12 | 3421430 | Pan Heater Support |
| 13 | 6200300 | Screw, 5/16-18 x 1-1/2" Hex |
| 14 | 6240050 | Flat Washer, 5/16" |
| 15 | 3150170 | Rubber Grommet, Large, 15/16" |
| 16 | 1801000 | Nylon Compressor Mount, 7/16" |
| 17 | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 18 | 6150840 | Tinnerman J-Clip |
| 19 | 6200050 | Screw, #10-12 X 1/2" Pan Hd |
| 20 | 0260600 | Support, Condenser |
| 21 | 3014100 | Suction Line Drier (Service Only) |

601RG SEALED SYSTEM VIEW

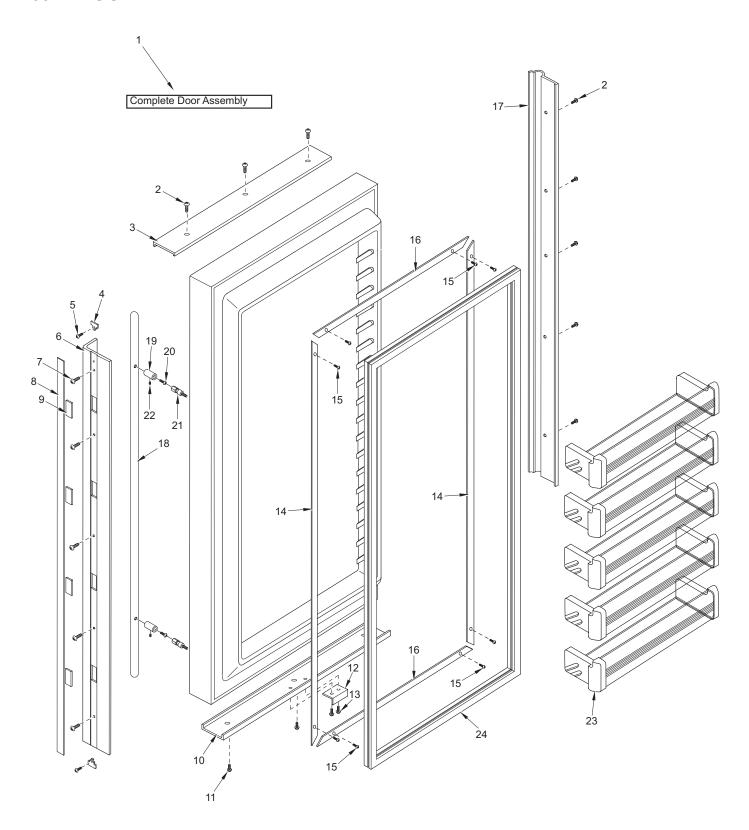




601F DOOR PARTS LIST

| Ref# | Part # | Description |
|------|--------------------|--|
| 1 | | • |
| 1 | 4132943 | Freezer Door Assy, Frame/Overlay - RH |
| | 4132944 | Freezer Door Assy, Frame/Overlay - LH Freezer Door Assy, SS - RH |
| | 4134523 4134524 | Freezer Door Assy, SS - KH Freezer Door Assy, SS - LH |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 3 | 2230608 | Door Trim, Top LH |
| 3 | 2230609 | Door Trim, Top RH |
| 4 | 3413340 | Handle/Trim End Cap |
| 5 | 6180160 | Rivet, Open End Blind, 1/8 X 3/16 |
| 6 | 4132230 | Door Handle Assy (Framed) |
| O | 4132330 | Handle-Side Door Trim (Overlay) |
| 7 | 6201300 | Tapping Screw, #8 x 1/2 |
| 8 | 4132370 | Handle/Trim Molding Assy |
| 9 | 3451000 | Magnet, Trim Strip - 3" |
| 10 | 2230606 | Door Trim, Top RH or Bottom LH |
| | 2230607 | Door Trim, Top LH or Bottom RH |
| 11 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 12 | 0180281 | Switch Depressor, White |
| 13 | 6201300 | Tapping Screw, #8 x 1/2 |
| 14 | 3420250 | Gasket Retainer, Side, 57.875 |
| 15 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 16 | 3420220 | Gasket Retainer, 33.312 |
| 17 | 3511310 | Door Trim, Hinge Side - Mitered Corner |
| | 3511410 | Door Trim, Hinge Side - (SS Model) |
| 18 | 4132410 | Handle Assy, Round (Incl. Stand-offs) (See SN Breaks) |
| | 4133510 | Handle Assy, Blunt (Incl. Stand-offs) (See SN Breaks) |
| | 4133690 | Handle Assy, SS OBR Standoffs (Incl. Stand-offs) (See SN Breaks) |
| 19 | 3511320 | Handle Stand-off 1" D (See SN Breaks) |
| | 3512150 | Standoff, SS Oval, Door (See SN Breaks) |
| 20 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 21 | 3511520 | Handle Mounting Stud |
| 22 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| 23 | 4330480 | Door Shelf Assy |
| 24 | 3212100 | Door Gasket |

601F DOOR VIEW

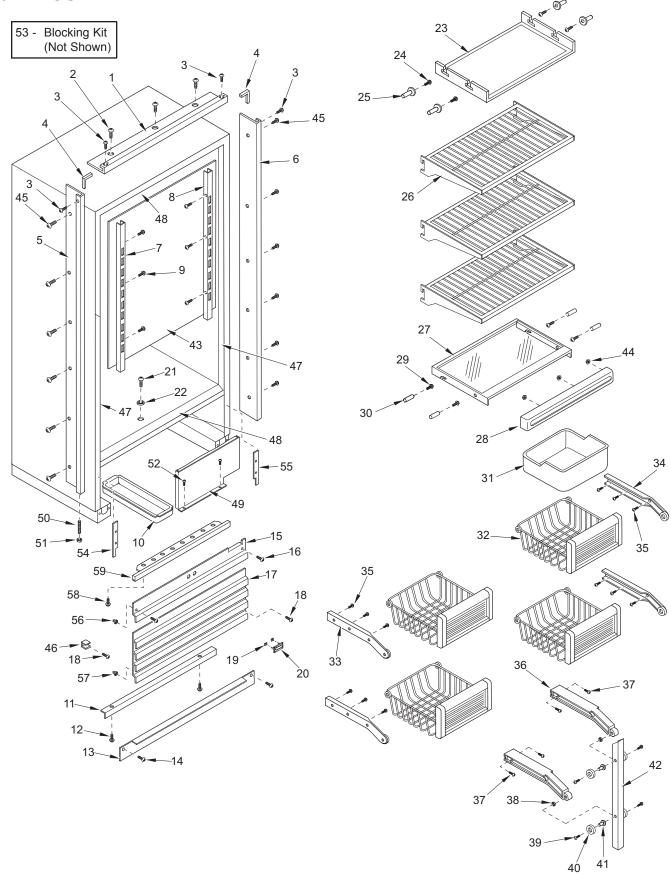




601F COSMETIC PARTS LIST

| | OUT GOOMETIG LAKING EIGT | | | | | | |
|--------------|--------------------------|---------------------------------------|--------------|---------|---|--|--|
| <u>Ref #</u> | Part # | <u>Description</u> | <u>Ref #</u> | Part # | <u>Description</u> | | |
| 1 | 2229616 | Main Frame, Top-RH (See SN Breaks) | 18 | 6200790 | Screw, #8-18 Black | | |
| | 2229637 | Main Frame, Top-RH (See SN Breaks) | 19 | 6150140 | Spring Grip Nut, 1/8 | | |
| | 2234015 | Frame, Main Top-RH (See SN Breaks) | 20 | 3580210 | Name Plate, Stick-on | | |
| | 2229617 | Main Frame, Top-LH (See SN Breaks) | | 3580230 | Name Plate w/ Pegs | | |
| | 2229640 | Main Frame, Top-LH (See SN Breaks) | 21 | 6200130 | Screw, #8-18 x 3/4 Truss HD | | |
| | 2234015 | Frame, Main Top-LH (See SN Breaks) | 22 | 6160050 | Spacer, 7/32 x 3/8 x 1-1/8 | | |
| 2 | 6200010 | Screw, #10-12 x 3/4 Pan HD | 23 | 4160860 | Freezer Light Diffuser Assy | | |
| 3 | 6200070 | Screw, #4-24 x 3/8" Flat HD. | 24 | 6201330 | Screw, #8-18 x 5/8 PH PN SS-Gnd | | |
| 4 | 2210701 | Main Frame Angle | 25 | 3520420 | Insert / Diffuser Stand-off | | |
| 5 | 2229603 | Main Frame, Left-RH (See SN Breaks) | 26 | 3601880 | Freezer Wire Shelf | | |
| | 2229636 | Main Frame, Left-RH (See SN Breaks) | 27 | 4181550 | Freezer Glass Shelf Assy. (Incl. Front) | | |
| | 2234004 | Frame, Main Left-RH (See SN Breaks) | 28 | 3413030 | Freezer Glass Shelf Front | | |
| | 2229619 | Main Frame, Left-LH (See SN Breaks) | 29 | 6200280 | Screw, #8-18 x 1 Pan Head | | |
| | 2229641 | Main Frame, Left-LH (See SN Breaks) | 30 | 6220430 | Screw Grommet | | |
| | 2234005 | Frame, Main Left-LH (See SN Breaks) | 31 | 3411320 | Ice Bucket | | |
| 6 | 2229618 | Main Frame, Right-RH (See SN Breaks) | 32 | 4181570 | Freezer Basket Assy | | |
| | 2229638 | Main Frame, Right-RH (See SN Breaks) | 33 | 4180972 | Freezer Basket Slide Assy - Left | | |
| | 2234003 | Frame, Main Right-RH (See SN Breaks) | 34 | 4180971 | Freezer Basket Slide Assy - Right | | |
| | 2229602 | Main Frame, Right-LH (See SN Breaks) | 35 | 6200450 | Screw, #8 x 1 Type AR Flat | | |
| | 2229639 | Main Frame, Right-LH (See SN Breaks) | 36 | 3411280 | Center Basket Slide | | |
| | 2234006 | Frame, Main Side-LH (See SN Breaks) | 37 | 6200130 | Screw, #8-18 x 3/4 Truss HD | | |
| 7 | 3601842 | Shelf Ladder, Left | 38 | 6150020 | Nut-Hex, #10-32 | | |
| 8 | 3601841 | Shelf Ladder, Right | 39 | 6200740 | Screw, #10-32 x 11/16 PH Flat HD UC | | |
| 9 | 6200710 | Screw, #8-18 x 3/8 Fillister HD | 40 | 3421160 | Basket Slide Roller | | |
| 10 | 0166110 | Drain Pan | | 3421170 | Freezer Basket Slide Roller, Wide | | |
| 11 | 0169790 | Front Rail | 41 | 3430080 | Roller Bushing | | |
| 12 | 6110020 | Bolt, #10-24 x 3/8 Truss HD | 42 | 0234010 | Center Basket Slide Support | | |
| 13 | 0169520 | Kickplate | 43 | 0234510 | Evaporator Cover | | |
| | 0167820 | Kickplate, Stainless Steel | 44 | 6150820 | Palnut, .25 | | |
| 14 | 6200050 | Screw, #10-12 Pan Hd | 45 | 6200210 | Screw, #8-32 x 1/2 Flat Head | | |
| | 6200720 | Screw, #8-18x1/2 Ph Tr Hd (SS Model) | 46 | 3450910 | Clip, Grille (SS Model) | | |
| 15 | 2232001 | Upper Grille - RH (See SN Breaks) | 47 | 2811207 | Breaker Strip, Side (See SN Breaks) | | |
| | 2233901 | Upper Grille - RH | 48 | 2811206 | Braker Strip, Top/Bot (See SN Breaks) | | |
| | | - Framed/Overlay (See SN Breaks) | 49 | 4280860 | Compressor Shroud (See SN Breaks) | | |
| | | - SS (See SN Breaks) | | 4281060 | Shroud Assy, Comp (See SN Breaks) | | |
| | 0261281 | Cover, Grille RH (SS) (See SN Breaks) | 50 | 3550190 | Bottom Hinge Stud | | |
| | 2232002 | Upper Grille - LH (See SN Breaks) | 51 | 6150200 | Nut, 1/4-20 Hex | | |
| | 2233902 | Upper Grille - LH | 52 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | |
| | | - Framed/Overlay (See SN Breaks) | 53 | 4201320 | Blocking Kit, 36" (Not Shown) | | |
| | | - SS (See SN Breaks) | 54 | 3580882 | Grille, Spacer LH (See SN Breaks) | | |
| | 0261282 | Cover, Grille LH (SS) (See SN Breaks) | 55 | 3580881 | Grille, Spacer RH (See SN Breaks) | | |
| 16 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 56 | 6220320 | Screw Grmt (See SN Breaks) | | |
| 17 | 4242250 | Lwr Grille Section (Framed / Overlay) | 57 | 6220050 | Screw Grmt,1/2X5/8 (See SN Breaks) | | |
| | 4241740 | Lwr Grille Sctn (SS) (See SN Breaks) | 58 | 6201550 | Screw, #8-1/8 Lw Prfl (See SN Breaks) | | |
| | 4242380 | Grille Assy, SS (See SN Breaks) | 59 | 3516670 | Trim, Grille Cvr (SS) (See SN Breaks) | | |

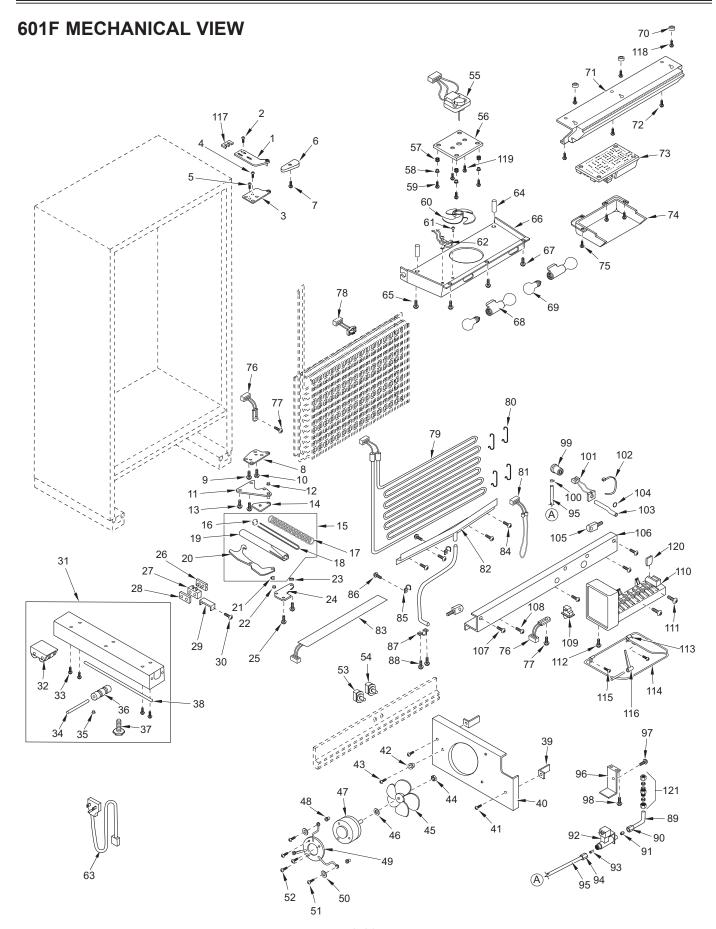
601F COSMETIC VIEW





601F MECHANICAL PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | Description |
|----------|--------------------|---|------------|--------------------|---|
| 1 | 4151271 | Cabinet Hinge Assy, Upper RH | 59 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| | 4151272 | Cabinet Hinge Assy, Upper LH | 60 | 3150520 | Fan blade, Ref/Fre Evap. |
| 2 | 6110070 | Bolt, 1/4-20 x 3/4" Spinlock Zinc | 61 | 6180010 | Pop Rivet, 1/8" |
| 3 | 4151471 | Door Hinge Assy, Top RH | 62 | 3082140 | Light Terminator |
| | 4151472 | Door Hinge Assy, Top LH | 63 | 4321820 | Power Cord |
| 4 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 64 | 6220540 | Screw Grommet / Stand-off |
| 5 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 65 | 6201010 | Screw, #8-15 x 2" Pan Head |
| 6 | 3541017 | Top Cabinet Hinge Cover, RH | 66 | 4160880 | Fan Shroud Assy (See SN Breaks) |
| 7 | 3541018 6200140 | Top Cabinet Hinge Cover, LH Screw, #8-15 x 3/8" Truss HD | 67 | 4161640 6201270 | Fan Shroud Assy (See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 8 | 4151241 | Door Hinge, Bottom RH | 68 | 3050180 | Light Socket, Double (See SN breaks) |
| O | 4151242 | Door Hinge, Bottom LH | " | 3050250 | Skt, Light MBase Dbl (See SN breaks) |
| 9 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 69 | 3030030 | Light Bulb, 40 Watt |
| 10 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 70 | 6160240 | Nylon Spacer |
| 11 | 4151871 | Bottom Cabinet Hinge Assembly - RH | 71 | 4160802 | Control Panel Assy (See SN Breaks) |
| | 4151872 | Bottom Cabinet Hinge Assembly - LH | | 4161672 | Control Panel Assy (See SN Breaks) |
| 12 | 3421270 | Hinge Bearing, 3/8" x 5/8" | 72 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 13 | 6110070 | Bolt, 1/4-20 x 3/4" Spinlock Zinc | 73 | 4202801 | Control Board |
| 14 | DS90 | Door Stop-90 Degree | 74 | 3412790 | Control Board Enclosure |
| 4.5 | DS105 | Door Stop-105 Degree | 75 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 15 | 4201113 | Door Closer Assembly, RH | 76 | 3014350 | Thermistor |
| 16 | 4201114 0165980 | Door Closer Assembly, LH Door Closer Spring Retainer | 77 78 | 6201270 3082060 | Screw, #8-18 x 5/8" PH PN SS-Gnd Defrost Terminator |
| 17 | 3450530 | Door Closer Spring Retainer Door Closer Spring | 79 | 4323760 | Defrost Heater Assy |
| " | 3450710 | Low Pull Spring | 80 | 1801100 | Heater Clip |
| 18 | 3421290 | Door Closer Linkage | 81 | 3013540 | Drain Tube Heater |
| 19 | 3421300 | Door Closer Housing | 82 | 4190220 | Drain Trough (w/o htr) (See SN Breaks) |
| 20 | 0183110 | Door Closer Arm | | 4190270 | Drain Trough (w/o htr) (See SN Breaks) |
| 21 | 3450550 | E-Ring / Klipring , 5/16" | 83 | 3013530 | Drain Trough Heater |
| 22 | 3421260 | Door Closer Bearing | 84 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 23 | 6160220 | Steel Spacer | 85 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 24 | 0183960 | Cabinet Hinge Stiffener | 86 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 25 | 6110450 | Bolt, 1/4-20 x 1/2" Whiz Lock | 87 | 6120210 | U-Clamp, 5/8" |
| 26 27 | 3450570 | Door Closer Cushion Door Closer Guide Support | 88 89 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 28 | 0165970 3421310 | Door Closer Guide Support | 90 | 2600297 3520380 | Tube, Copper L-Shaped Compression Nut |
| 29 | 0166360 | Door Closer Cushion Retainer | 91 | 3520370 | Compression Sleeve |
| 30 | 6180010 | Pop Rivet, 1/8" | 92 | 4202790 | Water Valve |
| 31 | 4110353 | Base Assy (w/rollers) | 93 | 3520050 | Brass Insert, Solenoid |
| 32 | 4110331 | Base Rear Roller Assy | 94 | 3520030 | Icemaker Nylon Nut, 1/4" |
| 33 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 95 | 2600617 | Plastic Water Line |
| 34 | 3550560 | Straight Pin, Base Assy312" x 2.88" | 96 | 0168160 | Solenoid Water Valve Bracket |
| 35 | 3450620 | Canoe Clip | 97 | 6200780 | Screw, #10-24 x 1/2" PH Hex Washer |
| 36 | 3421240 | Cabinet Roller | 98 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 37 | 3570050 | Leveling Leg, #18-3/8 x 1" | 99 | 1607700 | Water Inlet Tube |
| 38 | 6110580 | Adjusting Screw Angle Bracket | 100 101 | 6220470 | Fill Tube Clamp Fill Tube Heater |
| 39 40 | 3450290 0168070 | Cond. Fan Shroud (See SN Breaks) | 101 | 3013820 6120450 | Locking Cable Tie 9.7" BLK |
| 40 | 0260140 | Cond. Fan Shroud (See SN Breaks) | 103 | 2605408 | Water Inlet Tube Extension, 6.34" |
| 41 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 104 | 3450480 | Plastic O-Ring |
| 42 | 3420670 | Screw Spacer | 105 | 6220330 | Plastic Support |
| 43 | 6200450 | Screw, #8 x 1" Type AR Flat | 106 | 0234020 | Drain Trough Enclosure |
| 44 | 6150410 | Nut, 1/4-20 | 107 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 45 | 3150320 | Fan Blade, Cond -5 prop | 108 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 46 | 3210340 | Neoprene Silencer, 7/8" | 109 | 3060130 | SPST Fan/Icemaker Switch |
| 47 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 110 | 4200521 | Icemaker Assy |
| 48 | 6150330 | Well Nut, .75D x .804", #10-32 | 111 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 49 50 | 3150650 | Condenser Fan Bracket | 112 | 6200320 | Screw, #8-32 x 1/2" Truss Head |
| 50 51 | 6240350 6201280 | Fender Washer, .25x1.25x.06 Machine Screw, #10-32 x 1-1/4" | 113 114 | 6120280 3421150 | Tube Clamp, Nylon, 3/16" Ice Level Control Arm |
| 52 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 115 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 53 | 3060030 | Light Switch, N/C | 116 | 3421070 | Connecting Rod |
| 54 | 3060020 | Fan Switch, N/O | 117 | 0168680 | Shim - Hinge |
| 55 | 4201770 | Evap. Fan Motor Pkg. (blade not Incl.) | 118 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD |
| 56 | 0211620 | Refrigerator Fan Bracket | 119 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 57 | 3220250 | Grommet, Rubber-M5351 | 120 | 3140360 | Fill Cup Plug |
| 58 | 3520410 | Brass Insert, Fan | 121 | 3520250 | Water Inlet Fitting Assy |

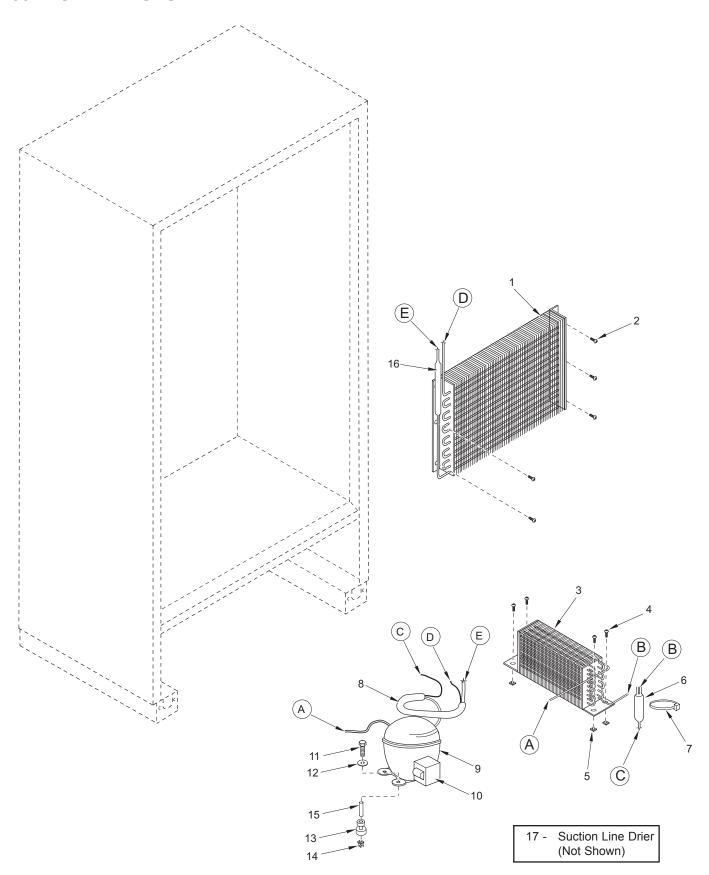




601F SEALED SYSTEM PARTS LIST

| Ref# | Part # | Description |
|------|---------|---|
| 1 | 3130440 | Evaporator Assembly |
| 2 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 3 | 3120320 | Condenser (See SN Breaks) |
| | 3120390 | Condenser (See SN Breaks) |
| 4 | 6110020 | Bolt, #10-24 x 3/8" Truss HD |
| 5 | 6150080 | Nut-Flat, #10-24 |
| 6 | 3014230 | Filter-Drier, High Side |
| 7 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 8 | 4251320 | Heat Exchanger |
| 9 | 4202250 | Compressor, Freezer (DA73) |
| 10 | 3111041 | Relay, (PTH490D-AS100) (Used with DA73 Compressor) |
| | 3111350 | Relay, (8EA403) (Used with RG108 Compressor) |
| | 3111430 | Overload, (4TM419MFB) (Used with DA73 Compressor) |
| | 3111390 | Overload, (4TM419TFB) (Used with RG108 Compressor) |
| | 3111070 | Running Capacitor, (12Mf) (Used with DA73 Compressor) |
| | 3111133 | Capacitor,(15Mf) (Used with RG108 Compressor) |
| 11 | 6200300 | Screw, 5/16-18 x 1-1/2" Hex |
| 12 | 6240050 | Flat Washer, 5/16" |
| 13 | 3150170 | Rubber Grommet, Large, 15/16" |
| 14 | 1801000 | Nylon Compressor Mount, 7/16" |
| 15 | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 16 | 3011140 | Accumulator |
| 17 | 3014100 | Suction Line Drier (Service Only) |

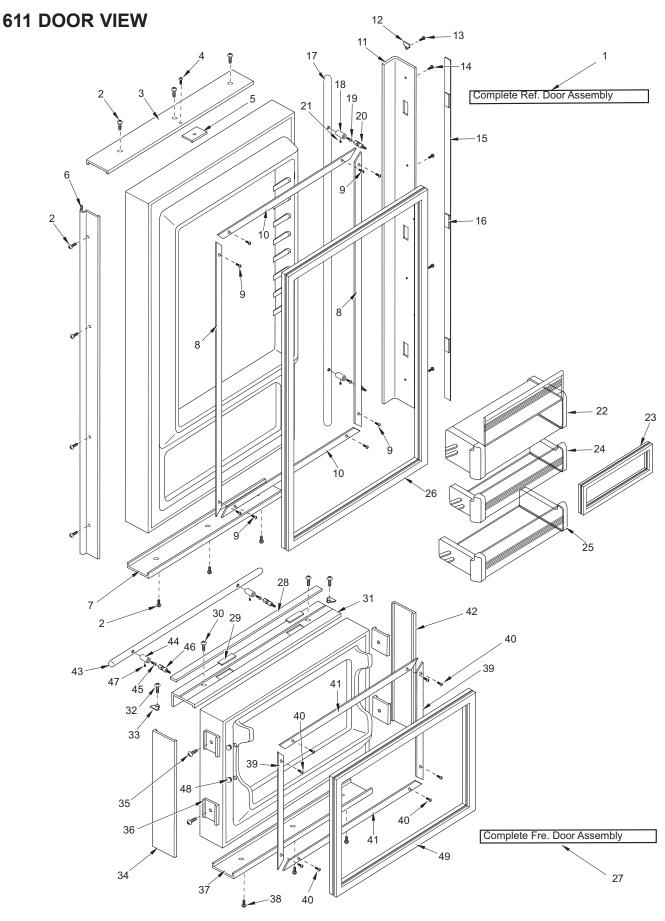
601F SEALED SYSTEM VIEW





611 DOOR PARTS LIST

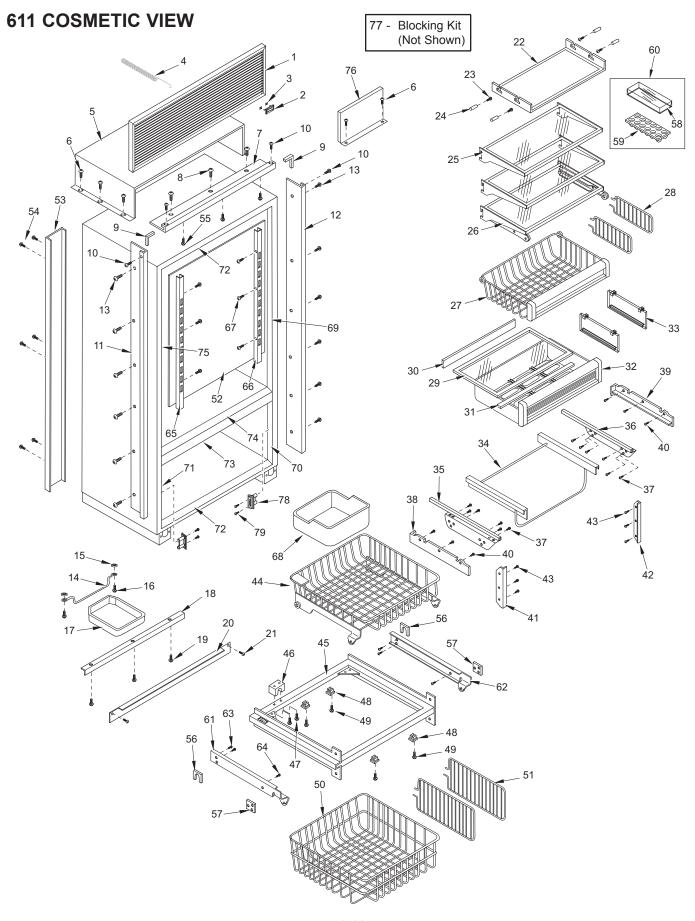
| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|------|---------|--|-------|---------|--|
| 1 | 4133133 | Refrig. Door Assy, Frame/Overlay - RH | 25 | 4330520 | Gallon Door Shelf Assy (Sales Acc.) |
| | 4133134 | Refrig. Door Assy, Frame/Overlay - LH | 26 | 3212160 | Door Gasket, Refrigerator |
| | 4133283 | Refrig. Door Assy, SS - RH | 27 | 4131995 | Freezer Drawer Assy, Frame/Overlay |
| | 4133284 | Refrig. Door Assy, SS - LH | | | (See SN Breaks) |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | | 4133145 | Freezer Drawer Assy, Frame/Overlay |
| 3 | 2230610 | Refrig. Door Trim, Top - RH | | | (See SN Breaks) |
| | 2230611 | Refrig. Door Trim, Top - LH | | 4132525 | Fre Drawr Assy (SS) (See SN Breaks) |
| 4 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | | 4133285 | Fre Drawr Assy (SS) (See SN Breaks) |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 28 | 4132380 | Handle/Trim Molding Assy, Freezer |
| 6 | 3511140 | Door Trim, Hinge Side - (SS Model) | 29 | 3451000 | Magnet, Trim Strip - 3" |
| | 3511141 | Door Trim, Hinge Side - Mitered Corner | 30 | 6201300 | Tapping Screw, #8 x 1/2 |
| 7 | 2230612 | Refrig. Door Trim, Bottom - RH | 31 | 4132260 | Drawer Handle Assy, Freezer (Framed) |
| | 2230613 | Refrig. Door Trim, Bottom - LH | | 4132360 | Handle-Side Door Trim, Freezer (Overlay) |
| 8 | 3420240 | Gasket Retainer, Side Ref, 47.438 | 32 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 |
| 9 | 6200410 | Screw, #8 x 1/2 Slot Head Hex | 33 | 3413340 | Handle/Trim End Cap |
| 10 | 3420200 | Gasket Retainer, 27.062 | 34 | 2230701 | Fre Drawer Trim, Rt Side |
| 11 | 4132240 | Door Handle Assy, Refrig. (Framed) | 35 | 6180040 | Pop Rivet, 3/16 x 1/8 Grip |
| | 4132340 | Handle-Side Door Trim, Ref. (Overlay) | 36 | 3450460 | Door Trim Clip |
| 12 | 3413340 | Handle/Trim End Cap | 37 | 2230614 | Freezer Drawer Trim, Bottom |
| 13 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 | 38 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 14 | 6201300 | Tapping Screw, #8 x 1/2 | 39 | 3420150 | Gasket Retainer, 17.312 |
| 15 | 4131870 | Handle/Trim Molding Assy, Refrig. | 40 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 16 | 3451000 | Magnet, Trim Strip - 3" | 41 | 3420200 | Gasket Retainer, 27.062 |
| 17 | 4132200 | Handle Assy,Ref 44.125 Rnd | 42 | 2230702 | Fre Drawer Trim, Lt Side |
| | | (Incl. Stand-offs) (See SN Breaks) | 43 | 4132570 | Handle Assy, Fre Drwr Rnd |
| | 4133500 | Hndl Assy,Ref 44.25 Blnt (Incl stndoffs) | | | (Incl. Stand-offs) (See SN Breaks) |
| | | (See SN Breaks) | | 4133460 | Hdl Assy, Fre Drwr Blunt (Incl Stndoffs) |
| | 4133700 | Handle Assy, SS Obr Standoff-Ref | | | (See SN Breaks) |
| | | (See SN Breaks) | | 4133710 | Handle Assy, Obr Standoff-Fre |
| 18 | 3511320 | Handle Stand-Off 1"D (See SN Breaks) | | | (See SN Breaks) |
| | 3512150 | Standoff, SS Oval (See SN Breaks) | 44 | 3511320 | Hndle Stand-Off 1" D (See SN Breaks) |
| 19 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD | | 3512160 | Stndoff,SS Oval, Drwr(See SN Breaks) |
| 20 | 3511520 | Handle Mounting Stud | 45 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 21 | 6110730 | Set Screw #10-32 x 1/4 SS Cone | 46 | 3511520 | Handle Mounting Stud |
| 22 | 4330450 | Dairy Compartment Assy | 47 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| 23 | 3211830 | Dairy Compartment Gasket | 48 | 3550230 | White Plastic Plug, 3/4 |
| 24 | 4330470 | Refrig. Door Shelf Assy | 49 | 3211160 | Door Gasket, Fre. (See SN Breaks) |
| | | | | 3212170 | Door Gasket, Fre. (See SN Breaks) |





611 COSMETIC PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | <u>Description</u> |
|----------------|--------------------|--|----------|---------|---|
| 1 | 6LG3011 | Louvered Grille Assy, 30" x 11" | 39 | 3421712 | Top Crisper Glass Support, Narrow-LH |
| ' | 6PG3011 | Panel Grille Assy, 30" x 11" | 39 | 3421712 | Top Crisper Glass Support, Wide-RH |
| | 6SG3011 | SS Grille 30" x 11" (See SN Breaks) | 40 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| | 6SG3011/S | SS Grille 30 X 11 (See SN Breaks) SS Grille,30X11-CLSC (See SN Breaks) | 41 | 3421741 | Crisper Filler Strip, Narrow (if RH) |
| 2 | 3580230 | Nameplate w/ Pegs | 71 | 3421742 | Crisper Filler Strip, Wallow (II KH) |
| 2 | 3580230 | Name Plate, Stick-on | 42 | 3421741 | Crisper Filler Strip, Wide (if LH) |
| 2 | 6150140 | Spring Grip Nut, 1/8" | 42 | 3421741 | |
| 3 | | | 43 | 6201270 | Crisper Filler Strip, Wide (if RH) Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 4 | 3450900 4281260 | Grille spring Unit Shroud Assembly | 44 | 4181030 | |
| 5 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 44 | 4181950 | Upper Fre Basket Assy (See SN Breaks) Upper Fre Basket Assy (See SN Breaks) |
| 6 7 | 2229623 | Main Frame, Top - LH (See SN Breaks) | 15 | | Drawer Slide Assy, Fre (See SN Breaks) |
| , | 2229623 | | 45 | 4180820 | • |
| | | Main Frame, Top - LH (See SN Breaks) | 46 | 4181910 | Drawer Slide Assy, Fre (See SN Breaks) |
| | 2229624 | Main Frame, Top - RH (See SN Breaks) | 46 | 3420950 | Upper Freezer Basket Restraint |
| 0 | 2229642 | Main Frame, Top - RH (See SN Breaks) | 47 | 6200340 | Screw, #6-20 x 1/2" Pan Head |
| 8 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 48 | 6220110 | Screw Grommet, 1/2" x 9/16" |
| 9 | 2210701 | Main Frame Angle | 49 | 6200130 | Screw, #8-18 x 3/4" Truss HD |
| 10 | 6200070 | Screw, #4-24 x 3/8" Flat HD | 50 | 3411190 | Lower Freezer Basket (See SN Breaks) |
| 11 | 2229608 | Main Frame, Left - RH (See SN Breaks) | F4 | 3413980 | Lower Freezer Basket (See SN Breaks) |
| | 2229632 | Main Frame, Left - RH (See SN Breaks) | 51 | 3411310 | Lower Fre Bskt Divider (See SN Breaks) |
| | 2229613 | Main Frame, Left - LH (See SN Breaks) | | 3413700 | Lower Fre Bskt Divider (See SN Breaks) |
| 40 | 2229633 | Main Frame, Left - LH (See SN Breaks) | 52 | 0201260 | Refig Evap Cover |
| 12 | 2229607 | Main Frame, Right - LH (See SN Breaks) | 53 | 0168120 | Back Duct (See SN Breaks) |
| | 2229631 | Main Frame, Right - LH (See SN Breaks) | _, | 0169600 | Back Duct (See SN Breaks) |
| | 2229610 | Main Frame, Right - RH (See SN Breaks) | 54 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP |
| 40 | 2229630 | Main Frame, Right - RH (See SN Breaks) | 55 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD |
| 13 | 6200210 | Screw, #8-32 x 1/2" Flat Head | 56 | 0232310 | Drawer Slide Shim, Rear |
| 14 | 3420760 | Drain Pan Holder | 57 | 0232300 | Drawer Slide Shim, Front060" |
| 15 | 3420670 | Screw Spacer | | 2121180 | Shim, Freezer Drawer Front030" |
| 16 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP | 58 | 3412280 | Egg Tray Cover |
| 17 | 0164940 | Drain Pan | 59 | 3412270 | Egg Tray |
| 18 | 0260720 | Kickplate Support | 60 | 4131810 | Egg Tray with Cover |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 61 | 4180681 | Cab Slide Assy, Fre; RT(See SN Breaks) |
| 20 | 0260710 | Kickplate | | 4181801 | Cab Slide Assy, Fre; RT(See SN Breaks) |
| 0.4 | 0168570 | Kickplate, Stainless Steel | 62 | 4180682 | Cab Slide Assy, Fre; LT(See SN Breaks) |
| 21 | 6200050 | Screw, #10-12 x 1/2" Pan HD | | 4181802 | Cab Slide Assy, Fre; LT(See SN Breaks) |
| 22 | 4162580 | Refrig. Light Diffuser Assembly | 63 | 6110330 | Screw, #10-32 x 1/4" Chrome Plate |
| 23 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 64 | 6200590 | Screw, #12 x 1" Type A Zinc Flat HD |
| 24 | 3520420 | Insert / Diffuser Stand-off | 65 | 3601821 | Refrig. shelf ladder, Right |
| 25 | 3601891 | Glass Shelf, Spill Proof | 66 | 3601822 | Refrig. shelf ladder, Left |
| 26 | 4181560 | Refrig. Roll-out Shelf Assy | 67 | 6200710 | Screw, #8-18 x 3/8" Fillister HD |
| 27 | 4181540 | Refrig. Roll-out Basket Assy | 68 | 3411340 | Ice Bucket |
| 28 | 3411160 | Ref Roll-Out Bskt Divider | 69 | 2811212 | Breaker Strip, Refr, RS (See SN Breaks) |
| 29 | 4151770 | Crisper Glass Assembly (Incl. Seals) | 70 | 2811213 | Breaker Strip, Fre, RS (See SN Breaks) |
| 30 | 3211770 | Crisper Glass Seal, Rear | 71 | 2811215 | Breaker Strip, Fre, LS (See SN Breaks) |
| 31 | 3211740 | Crisper Glass Seal, Front | 72 | 2811214 | Brkr Strip, Ref TOp/Fre BoTtOM |
| 32 | 4181460 | High Humidity Drawer Assembly | 70 | 0044500 | (See SN Breaks) |
| 33 | 3413100 | Drawer Divider | 73 | 2811502 | Brkr Strip, Fre Mullion (See SN Breaks) |
| 34 | 3421760 | Humidity Drawer Slide-Frame | 74 75 | 2811402 | Brkr Strip, Ref Mullion (See SN Breaks) |
| 35 | 4181412 | Top Crisper Slide Assembly, Wide-LH | 75 | 2811216 | Breaker Strip, Ref, LS (See SN Breaks) |
| 00 | 4181421 | Top Crisper Slide Assembly, Narrow-RH | 76 | 4280950 | Compsr Shroud Assy. (See SN Breaks) |
| 36 | 4181411 | Top Crisper Slide Assembly, Wide-RH | | 4281270 | Compsr Shroud Assy. (See SN Breaks) |
| a - | 4181422 | Top Crisper Slide Assembly, Narrow-LH | 77 | 4201310 | Blocking Kit; 30" (Not Shown) |
| 37 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 78 | 3421400 | Grommet,Spprt Insul. (See SN Breaks) |
| 38 | 3421711 | Top Crspr Glass Support, Narrow-RH | 7. | 3421860 | Grommet,Spprt Insul. (See SN Breaks) |
| | 3421722 | Top Crisper glass Support, Wide-LH | 79 | 6200010 | Screw, #10-12 x 3/4" Pan HD |

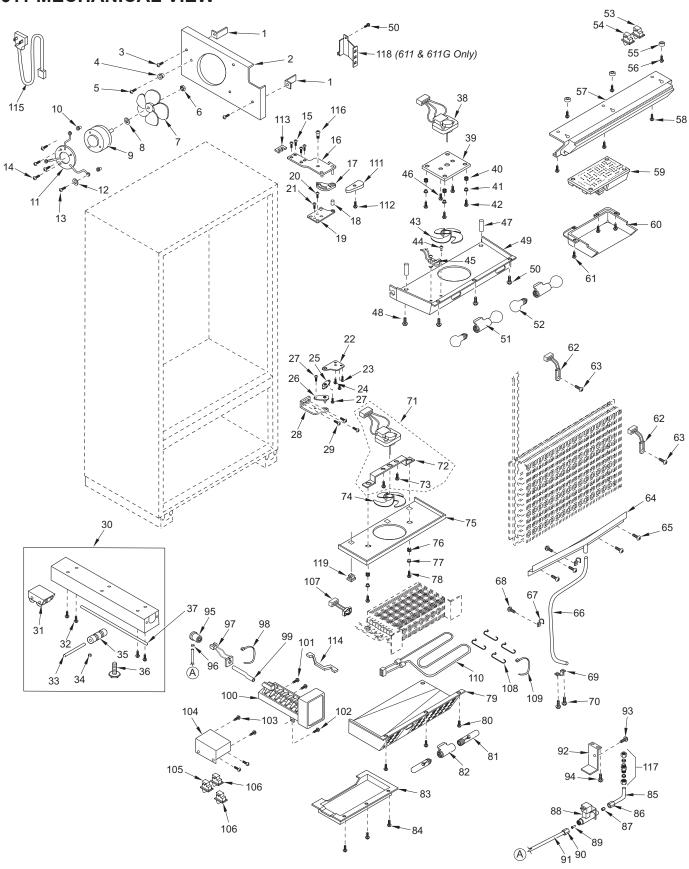




611 MECHANICAL PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | Description |
|----------|--------------------|--|------------|--------------------|--|
| 1 | 3450290 | Angle Bracket | 60 | 3412790 | Control Board Encl. (See SN Breaks) |
| 2 | 0260730 | Condenser Fan Shroud (See SN Breaks) | C4 | 3413940 | Control Board Encl. (See SN Breaks) |
| 3 | 0261220 6200010 | Shroud, Cond Fan (See SN Breaks) Screw, #10-12 x 3/4" Pan HD | 61 62 | 6201270 3014350 | Screw, #8-18 x 5/8" PH PN SS-Gnd Thermistor |
| 4 | 3420670 | Screw Spacer | 63 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 5 | 6200450 | Screw, #8 x 1" Type AR Flat | 64 | 4190200 | Drain Trough Assy (See SN Breaks) |
| 6 | 6150410 | Nut, 1/4-20 | 0.5 | 0212630 | Drain Trough, Ref (See SN Breaks) |
| 7 8 | 3150320 3210340 | Fan Blade, Cond, 5 prop, 7" Neoprene Silencer, 7/8" | 65 66 | 6201270 1601400 | Screw, #8-18 x 5/8" PH PN SS-Gnd Drain Tube, Wire - 1/2" x 72" |
| 9 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 67 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 10 | 6150330 | Well Nut, .75D x .804", #10-32 | 68 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 11 12 | 3150650 6240350 | Condenser Fan Bracket Fender Washer, .25x1.25x.06 | 69 70 | 6120210 6200010 | U-Clamp, 5/8" Screw, #10-12 x 3/4" Pan HD |
| 13 | 6201280 | Machine Screw, #10-32 x 1-1/4" | 71 | 4200160 | Freezer Fan Motor Pkg. (Blade not Incl.) |
| 14 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 72 | 0232280 | Fan Bracket, Fre |
| 15 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 73 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 16 | 4151831 4151832 | Upper Cabinet Hinge - RH Upper Cabinet Hinge - LH | 74 75 | 3150640 0233560 | Fan blade, Ref/Fre Evap. Fan Shroud, Fre Evap (See SN Breaks) |
| 17 | 3421800 | Door Stop Cam | '3 | 4281500 | Shroud Assy, Fre Evap (See SN Breaks) |
| 18 | 3421790 | Bearing, Top Door Hinge | 76 | 3220250 | Grommet, 3/16" x 7/16" x 9/32" |
| 19 | 4151841 | Hinge, Door Top - RH | 77 | 3520120 | Brass Insert, Fan Bracket |
| 20 | 4151842 6110540 | Hinge, Door Top - LH Bolt, #10-24 x 1/2" Flat Socket HD | 78 79 | 6200670 0233180 | Screw, #6-18 x 3/4" Teks Evaporator Cover, Fre (See SN Breaks) |
| 21 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | , , | 0234810 | Evaporator Cover, Fre (See SN Breaks) |
| 22 | 0182381 | Door Hinge, Bottom; RH | | 0235220 | Cover, Fre Evap (See SN Breaks) |
| 23 | 0182382 6110540 | Door Hinge, Bottom; LH Bolt, #10-24 x 1/2" Flat Socket HD | | 0232860 0234300 | Fre Evap. Cvr Lft Side (See SN Breaks) Fre Evap. Cvr Lft Side (See SN Breaks) |
| 24 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 80 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 25 | 3420690 | Bottom Door Hinge Cam | 81 | 3030040 | Light Bulb, Long/Narrow; 40 watt |
| 26 | 3420681 | Bottom Cabinet Hinge Cam, RH | 82 | 3050010 | Light Socket, 3/4 Single (See SN Breaks) |
| 27 | 3420682 6110270 | Bottom Cabinet Hinge Cam, LH Bolt, #10-32 x 1/4" RD HD | 83 | 3050220 4151880 | Socket, Light Base Sngl (See SN Breaks) Fre Air Duct Assy (See SN Breaks) |
| 28 | 4151641 | Cabinet Hinge, Bot- RH (See SN Breaks) | | 0234890 | Fre Air Duct Assy (See SN Breaks) |
| | 4152011 | Cabinet Hinge, Bot - RH(See SN Breaks) | 84 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| | 4151642 4152012 | Cabinet Hinge, Bot - LH (See SN Breaks) | 85 86 | 2600297 3520380 | Tube, Copper L-Shaped |
| 29 | 6110010 | Cabinet Hinge, Bot - LH(See SN Breaks) Bolt, #10-24 x 1/2" Flat Head UC | 87 | 3520370 | Compression Nut Compression Sleeve |
| 30 | 4110353 | Base Assy (w/rollers) | 88 | 4202790 | Water Valve |
| 31 | 4110331 | Base Rear Roller Assy | 89 | 3520050 | Brass Insert, Solenoid |
| 32 33 | 6200010 3550560 | Screw, #10-12 x 3/4" Pan HD Straight Pin, Base Assy, .312" x 2.88" | 90 91 | 3520030 2600617 | Icemaker Nylon Nut, 1/4" Plastic Water Line |
| 34 | 3450620 | Canoe Clip | 92 | 0168160 | Solenoid Water Valve Bracket |
| 35 | 3421240 | Cabinet Roller (Single) | 93 | 6200780 | Screw, #10-24 x 1/2" PH Hex Washer |
| 36 37 | 3570050 6110580 | Leveling Leg, #18-3/8 x 1" Adjusting Screw | 94 95 | 6201270 1607700 | Screw, #8-18 x 5/8" PH PN SS-Gnd Water Inlet Tube |
| 38 | 4200170 | Refrig. Fan Motor Pkg. (Blade not Incl.) | 96 | 6220470 | Fill Tube Clamp |
| 39 | 0211620 | Refrigerator Fan Bracket | 97 | 3070210 | Heater, Fill Tube |
| 40 | 3220250 | Grommet, 3/16" x 7/16" x 9/32" | 98 | 6120450 | Locking Cable Tie 9.7" BLK |
| 41 42 | 3520410 6110270 | Brass Insert, Fan Bolt, #10-32 x 1/4" RD HD | 99 100 | 2605410 4200522 | Water Inlet Tube Extension Icemaker Assembly |
| 43 | 3150640 | Fan blade, Ref/Fre Evap. | 101 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 44 | 6180010 | Pop Rivet, 1/8" | 102 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 45 46 | 3082140 6110270 | Light Terminator Bolt, #10-32 x 1/4" RD HD | 103 104 | 6201270 0233820 | Screw, #8-18 x 5/8" PH PN SS-Gnd Switch Housing, Freezer |
| 47 | 6220540 | Screw Grommet / Stand-off | 105 | 3060140 | SPST Light Switch |
| 48 | 6201010 | Screw, #8-15 x 2" Pan Head | 106 | 3060130 | SPST Fan/Icemaker Switch |
| 49 50 | 4161970 6201270 | Refrig. Fan Shroud Assy Screw, #8-18 x 5/8" PH PN SS-Gnd | 107 108 | 3082060 | Defrost Terminator Heater Clip |
| 50 51 | 3050180 | Light Socket, Double (See SN breaks) | 100 | 1801100 6120340 | Aluminum Strap |
| | 3050250 | Skt, Light MBase Dbl (See SN breaks) | 110 | 4322580 | Defrost Heater Assy (See SN Breaks) |
| 52 52 | 3030030 | Light Bulb, 40 Watt | 111 | 4325190 | Defrost Heater Assy (See SN Breaks) |
| 53 54 | 3060130 3060140 | SPST Fan/Icemaker Switch SPST Light Switch | 111 | 3541017 3541018 | Top Cabinet Hinge Cover, RH Top Cabinet Hinge Cover, LH |
| 55 | 6160240 | Nylon Spacer | 112 | 6200140 | Screw, #8-15 x 3/8" Truss HD |
| 56 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 113 | 0168680 | Shim - Hinge |
| 57 | 4160922 4161922 | Control Panel Assy (See SN Breaks) Control Panel Assy (See SN Breaks) | 114 115 | 3140400 4321820 | Icemaker Rudder Arm Power Cord |
| 58 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 116 | 3550770 | 90° Stop Pin |
| 59 | 4202800 | Control Board Pkg -Dual(See SN Breaks) | 117 | 3520250 | Water Inlet Fitting Assy |
| | 4203520 | Control Board Pkg (See SN Breaks) | 118 119 | 0260740 | Bracket, Condenser Shroud Scrw Grmt,1/32X3/8 SQ(See SN Breaks) |
| | | | 119 | 6220220 | SOW GITTE, 1/32/3/0 SQ(See SIN Breaks) |

611 MECHANICAL VIEW

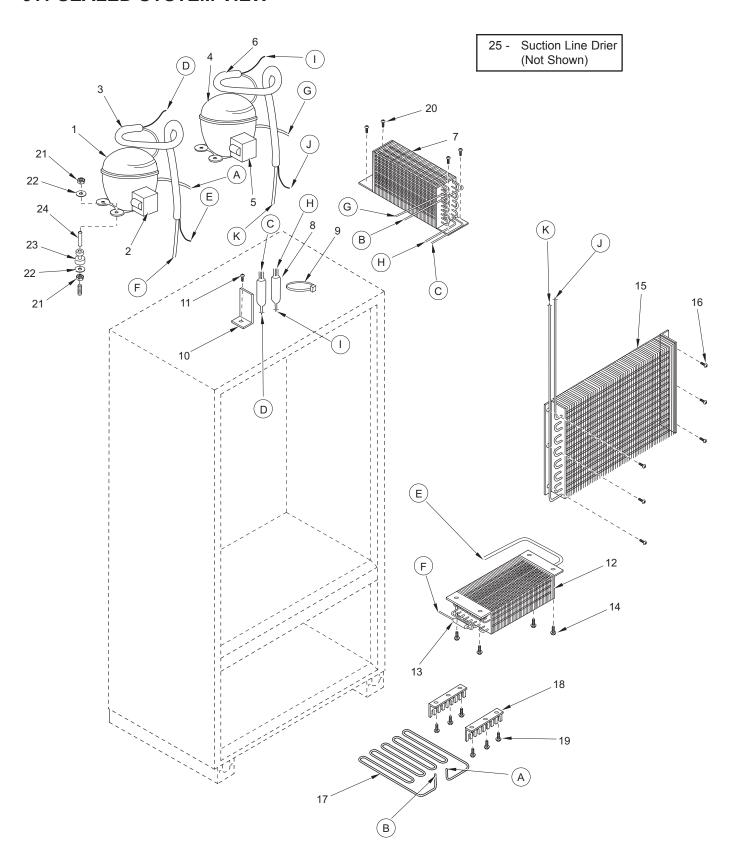




611 SEALED SYSTEM PARTS LIST

| Ref# | Part # | Description |
|------|---------|---|
| 1 | 4202280 | Compressor, (EMI60HER) |
| 2 | 3111350 | Relay, (8EA403) (Used with RG108 Compressor) |
| | 3111460 | Relay, (1351408) (Used with EMI60HER Compressor) |
| | 3111390 | Overload (4TM419TFB) (Used with RG108 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor) |
| | 3111133 | Capacitor (15Mf) (Used with RG108 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor) |
| 3 | 4251350 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 5 | 3111370 | Relay, (1351400 - for EMI30HER) |
| | 3111410 | Overload, (4TM734LFB - for EMI30HER) |
| 6 | 4251330 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3130320 | Evaporator Coil, Fre (See SN Breaks) |
| | 3130600 | Evaporator Coil, Fre (See SN Breaks) |
| 13 | 3011130 | Freezer Accumulator |
| 14 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 15 | 3130260 | Evaporator, Refrig. |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 25 | 3014100 | Suction Line Drier (Service Only - Not Shown) |

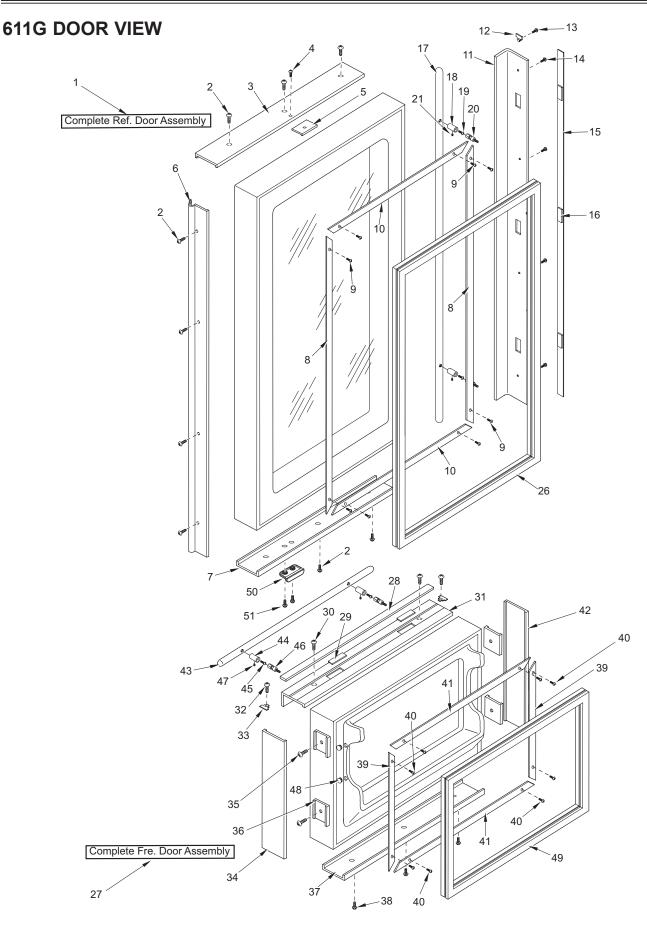
611 SEALED SYSTEM VIEW





611G DOOR PARTS LIST

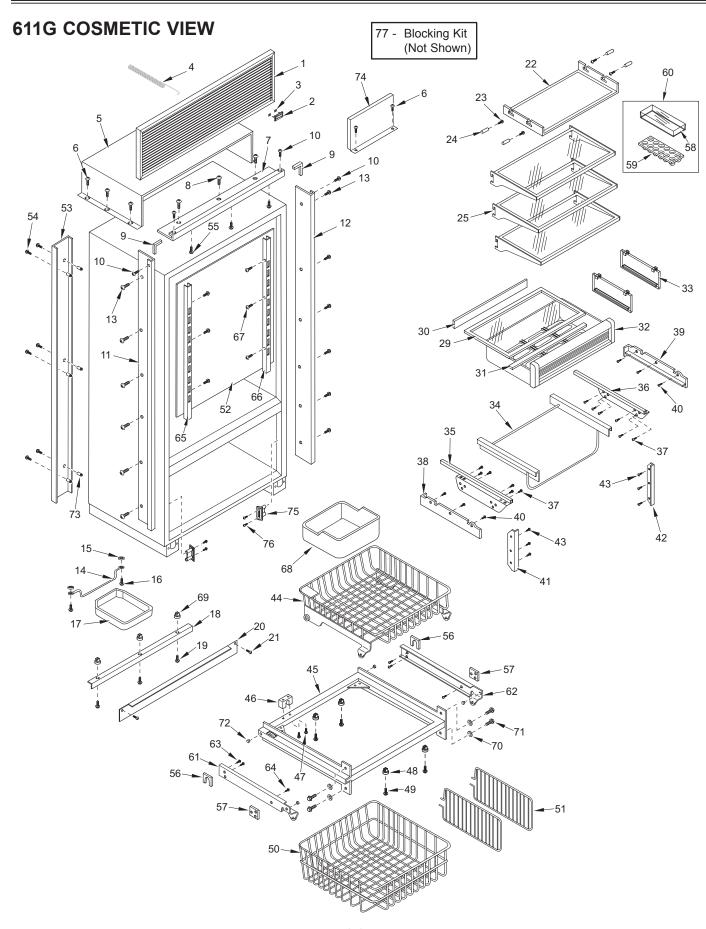
| Ref# | Part # | <u>Description</u> | Ref# | Part # | <u>Description</u> |
|-------|-----------|---|------|---------|--|
| 1 | 4134655 | Door Assy,Ref 611G Frmd/Overlay-RH | 22 | NA | |
| | 4134656 | Door Assy,Ref 611G Frmd/Overlay-LH | 23 | NA | |
| | 4134657 | Door Assy,Ref 611HAG Frmd/Olay-RH | 24 | NA | |
| | 4134658 | Door Assy,Ref 611HAG Frmd/Olay-LH | 25 | NA | |
| | 4134665 | Door Assy, Ref 611G SS-RH | 26 | 3212160 | Door Gasket, Refrigerator |
| | 4134666 | Door Assy, Ref 611G SS-LH | 27 | 4133145 | Freezer Drawer Assy-Frame/Overlay |
| | 4134667 | Door Assy, Ref 611HAG SS-RH | | 4133285 | Freezer Drawer Assy-Stainless Steel |
| | 4134668 | Door Assy, Ref 611HAG SS-LH | 28 | 4132380 | Handle/Trim Molding Assy, Freezer |
| NOTE: | Door Assy | 's incl. Wire Harness / Top Hng Assy. | 29 | 3451000 | Magnet, Trim Strip |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | 30 | 6201300 | Tapping Screw, #8 x 1/2 |
| 3 | 2230610 | Refrig. Door Trim, Top - RH | 31 | 4132260 | Drawer Handle Assy, Freezer (Framed) |
| | 2230611 | Refrig. Door Trim, Top - LH | | 4132360 | Handle-Side Door Trim, Freezer (Overlay) |
| 4 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | 32 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 33 | 3413340 | Handle/Trim End Cap |
| 6 | 3511140 | Door Trim, Hinge Side - (SS Model) | 34 | 2230701 | Fre Drawer Trim, Rt Side |
| | 3511141 | Door Trim, Hinge Side - Mitered Corner | 35 | 6180040 | Pop Rivet, 3/16 x 1/8 Grip |
| 7 | 2230612 | Refrig. Door Trim, Bottom - RH | 36 | 3450460 | Clip, Door Trim |
| | 2230613 | Refrig. Door Trim, Bottom - LH | 37 | 2230614 | Freezer Drawer Trim, Bottom |
| 8 | 3420240 | Gasket Retainer, Side Ref, 47.438 | 38 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 9 | 6200410 | Screw, #8 x 1/2 Slot Head Hex | 39 | 3420150 | Gasket Retainer, 17.312 |
| 10 | 3420200 | Gasket Retainer, 27.062 | 40 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 11 | 4132240 | Door Handle Assy, Refrig. (Framed) | 41 | 3420200 | Gasket Retainer, 27.062 |
| | 4132340 | Handle-side Door Trim, Rfrig. (Overlay) | 42 | 2230702 | Fre Drawer Trim, Lt Side |
| 12 | 3413340 | Handle/Trim End Cap | 43 | 3512010 | Handle, Door SS 1 X 24.312 |
| 13 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 | | 4133710 | Handle Assy, Obr Standoff - Fre |
| 14 | 6201300 | Tapping Screw, #8 x 1/2 | 44 | 3512160 | Standoff, SS Oval |
| 15 | 4131870 | Handle/Trim Molding Assy, Refrig. | 45 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 16 | 3451000 | Magnet, Trim Strip | 46 | 3511520 | Handle Mounting Stud |
| 17 | 3511980 | Handle, Door SS 1 X 44.250 | 47 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| | 4133700 | Handle Assy, SS OBR Standoff | 48 | 3550230 | White Plastic Plug, 3/4 |
| 18 | 3512150 | Standoff, SS Oval | 49 | 3212170 | Door Gasket, Fre. |
| 19 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD | 50 | 3430100 | Closer, Door-Door Side |
| 20 | 3511520 | Handle Mounting Stud | 51 | 6110060 | Bolt, #10-32 x 5/8", Truss Head |
| 21 | 6110730 | Set Screw #10-32 x 1/4 SS Cone | | | |





611G COSMETIC PARTS LIST

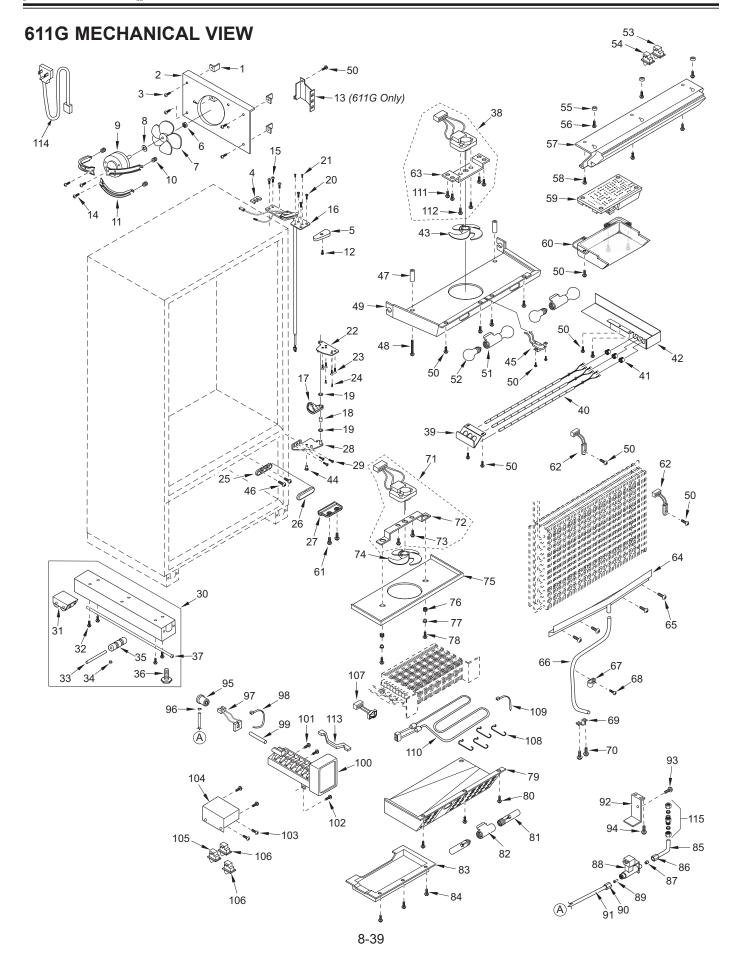
| Ref# | Part # | <u>Description</u> | Ref# | Part # | <u>Description</u> |
|----------|--------------------|---|----------|--------------------|---|
| 1 | 6LG3011 | Louvered Grille Assy, 30" x 11" | 37 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 6PG3011 | Panel Grille Assy, 30" x 11" | 38 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| | 6SG3011 | Stainless Steel Grille Assy, 30" x 11" | | 3421722 | Top Crisper glass Support, Wide-LH |
| | 6SG3011 | SS Grille Assy, 30"X11" (See SN Breaks) | 39 | 3421712 | Top Crisper Glass Support, Narrow-LH |
| | 6SG3011/S | SS Grille,30X11-CLSC (See SN Breaks) | | 3421721 | Top Crisper Glass Support, Wide-RH |
| 2 | 3580230 | Nameplate w/ Pegs | 40 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 3 | 6150140 | Spring Grip Nut, 1/8" | 41 | 3421741 | Crisper Filler Strip, Narrow (if RH) |
| 4 | 3450900 | Spring, Grille | | 3421742 | Crisper Filler Strip, Wide (if LH) |
| 5 | 4281260 | Unit Shroud Assembly | 42 | 3421741 | Crisper Filler Strip, Narrow (if LH) |
| 6 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | 3421742 | Crisper Filler Strip, Wide (if RH) |
| 7 | 2234007 | Frame, Main Top 30 - RH | 43 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 2234008 | Frame, Main Top 30 - LH | 44 | 4181950 | Upper Fre Basket Assy |
| 8 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 45 | 4181910 | Drawer Slide Assy, Fre |
| 9 | 2210701 | Main Frame Angle | 46 | 3420950 | Upper Freezer Basket Restraint |
| 10 | 6200070 | Screw, #4-24 x 3/8" Flat HD | 47 | 6200340 | Screw, #6-20 x 1/2" Pan Head |
| 11 | 2234013 | Frame, Main Side Left - RH | 48 | 6220110 | Screw Grommet, 1/2" x 9/16" |
| | 2234014 | Frame, Main Side Left - LH | 49 | 6200130 | Screw, #8-18 x 3/4" Truss HD |
| 12 | 2234011 | Frame, Main Side Right - RH | 50 | 3413980 | Lower Freezer Basket |
| | 2234012 | Frame, Main Side Right - LH | 51 | 3413700 | Lower Fre Bskt Divider |
| 13 | 6201550 | Screw, #8-18 X 1/2 Low Profile | 52 | 0201260 | Refig Evap Cover |
| 14 | 3420760 | Drain Pan Holder | 53 | 0169600 | Back Duct |
| 15 | 3420670 | Screw Spacer | 54 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP |
| 16 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP | 55 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD |
| 17 | 0164940 | Drain Pan | 56 | 0232310 | Drawer Slide Shim, Rear |
| 18 | 0260720 | Kickplate Support | 57 | 0232300 | Drawer Slide Shim, Front060" |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD | | 2121180 | Shim, Freezer Drawer Front030" |
| 20 | 0260710 | Kickplate | 58 | 3412280 | Egg Tray Cover |
| 0.4 | 0168570 | Kickplate, Stainless Steel | 59 | 3412270 | Egg Tray |
| 21 | 6200050 | Screw, #10-12 x 1/2" Pan HD | 60 | 4131810 | Egg Tray with Cover |
| 22 | 4162580 | Refrig. Light Diffuser Assembly | 61 | 4181801 | Cab Slide Assy, Fre; RT |
| 23 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 62 | 4181802 | Cab Slide Assy, Fre; LT |
| 24 | 3520420 | Insert / Diffuser Stand-off | 63 | 6110330 | Screw, #10-32 x 1/4" Chrome Plate |
| 25 | 3602330 | Shelf, Glass Cantilever | 64 | 6200590 | Screw, #12 x 1" Type A Zinc Flat HD |
| 26 | NA | | 65 | 3601821 | Refrig. shelf ladder, Right |
| 27 | NA | | 66 | 3601822 | Refrig. shelf ladder, Left |
| 28 | NA 44.51770 | Crianar Class Assembly (Incl. Cools) | 67 | 6200710 | Screw, #8-18 x 3/8" Fillister HD |
| 29 | 4151770 | Crisper Glass Assembly (Incl. Seals) | 68 | 3411340 | Ice Bucket |
| 30 31 | 3211770 | Crisper Glass Seal, Rear | 69 | 6220050 | Screw Grommet, 1/2" x 5/8" Flat Washer, 1/4" |
| 32 | 3211740 | Crisper Glass Seal, Front High Humidity Drawer Assembly | 70 | 6240040 | • |
| 33 | 4181460 3413100 | Drawer Divider | 71 | 6110450 | Bolt, 1/4-20 x 1/2" Whiz Lock Glide, Rear Drawer 1/2X1/4 |
| | | Humidity Drawer Slide-Frame | 72 | 3550300 | |
| 34 35 | 3421760 | Top Crisper Slide Assembly, Wide-LH | 73 74 | 6220430 | Screw Grommet Compressor Shroud Assy. |
| 35 | 4181412 4181421 | Top Crisper Slide Assembly, Narrow-RH | 75 | 4281270 3421860 | Grommet,Spprt Insul. |
| 36 | 4181411 | Top Crisper Slide Assembly, Wide-RH | 76 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 50 | 4181422 | Top Crisper Slide Assembly, Narrow-LH | 77 | 4201310 | Blocking Kit; 30" (Not Shown) |
| | 1101-722 | Top Shoper Shae Assembly, Narrow-LIT | l '' | 7201010 | Dissiming this, our (Not Officerit) |





611G MECHANICAL PARTS LIST

| Ref# | Part # | Description | Ref# | Part # | <u>Description</u> |
|------|---------|--|------|---------|--|
| 1 | 3450290 | Angle Bracket | 57 | 4162682 | Control Panel Assy, 611G Srvc |
| 2 | 0261220 | Shroud, Cond Fan | 58 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 3 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 59 | 4203790 | Control Board Pkg |
| 4 | 0168680 | Shim - Hinge | 60 | 3413940 | Control Board Encl. |
| 5 | 3541017 | Top Cabinet Hinge Cover, RH | 61 | 6110060 | Bolt, #10-32 x 5/8", Truss Head |
| | 3541018 | Top Cabinet Hinge Cover, LH | 62 | 3014350 | Thermistor |
| 6 | 6150410 | Nut, 1/4-20 | 63 | 0212540 | Bracket, Fan |
| 7 | 3150320 | Fan Blade, Cond, 5 prop, 7" | 64 | 0212630 | Drain Trough, Ref |
| 8 | 3210340 | Neoprene Silencer, 7/8" | 65 | 6201540 | Screw, #8- 15X1-1/4 PH PAN HD |
| 9 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 66 | 1601400 | Drain Tube, Wire - 1/2" x 72" |
| 10 | 3220360 | Grommet, Mtg Brkt | 67 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 11 | 0261150 | Bracket, Cond Mounting | 68 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 12 | 6200140 | Screw, #8-15 x 3/8" Truss HD | 69 | 6120210 | U-Clamp, 5/8" |
| 13 | 0260740 | Bracket, Condenser Shroud | 70 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 14 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 71 | 4200160 | Freezer Fan Motor Pkg. (Blade not Incl.) |
| 15 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 72 | 0232280 | Fan Bracket, Fre |
| 16 | 4325671 | WH, Top Hinge Assy - RH | 73 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| | 4325672 | WH, Top Hinge Assy - LH | 74 | 3150640 | Fan Blade, Evaporator |
| 17 | 3421800 | Door Stop Cam | 75 | 4281500 | Shroud Assy, Fre Evap 611 Srvc |
| 18 | 3421790 | Bearing, Door Hinge | 76 | 3220250 | Grommet, 3/16" x 7/16" x 9/32" |
| 19 | 3430120 | Bushing, Door | 77 | 3520120 | Brass Insert, Fan Bracket |
| 20 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 78 | 6200670 | Screw, #6-18 x 3/4" Teks |
| 21 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 79 | 0235220 | Cover, Fre Evap |
| 22 | 4151841 | Hinge, Door Bottom LH | | 0234300 | Fre Evap. Cvr Lft Side |
| | 4151842 | Hinge, Door Bottom RH | 80 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 23 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 81 | 3030040 | Light Bulb, Long/Narrow; 40 watt |
| 24 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 82 | 3050220 | Socket, Light Int Base Sngl |
| 25 | 3430110 | Closer, Door-Cabinet Side | 83 | 0234890 | Fre Air Duct Assy |
| 26 | 3430140 | Cover, Door Closer | 84 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 27 | 3430100 | Closer, Door-Door Side | 85 | 2600297 | Tube, Copper L-Shaped |
| 28 | 4152081 | Cabinet Hinge, Bot - RH | 86 | 3520380 | Compression Nut |
| | 4152082 | Cabinet Hinge, Bot - LH | 87 | 3520370 | Compression Sleeve |
| 29 | 6110810 | Screw, Machine #10-24X3/4 PH FT HD | 88 | 4202790 | Water Valve |
| 30 | 4110353 | Base Assy (w/rollers) | 89 | 3520050 | Brass Insert, Solenoid |
| 31 | 4110331 | Base Rear Roller Assy | 90 | 3520030 | Icemaker Nylon Nut, 1/4" |
| 32 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 91 | 2600617 | Plastic Water Line |
| 33 | 3550560 | Straight Pin, Base Assy, .312" x 2.88" | 92 | 0168160 | Solenoid Water Valve Bracket |
| 34 | 3450620 | Canoe Clip | 93 | 6200780 | Screw, #10-24 x 1/2" PH Hex Washer |
| 35 | 3421240 | Cabinet Roller (Single) | 94 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 36 | 3570050 | Leveling Leg, #18-3/8 x 1" | 95 | 1607700 | Water Inlet Tube |
| 37 | 6110580 | Adjusting Screw | 96 | 6220470 | Fill Tube Clamp |
| 38 | 4200170 | Refrig. Fan Motor Pkg. (Blade not Incl.) | 97 | 3070210 | Heater, Fill Tube |
| 39 | 0261330 | Bracket, Light | 98 | 6120450 | Locking Cable Tie 9.7" BLK |
| 40 | 3030170 | Light Strip, 7.5 WATT | 99 | 2605410 | Water Inlet Tube Extension |
| 41 | 3220810 | Grommet, Open/Closed 1/2 | 100 | 4200522 | Icemaker Assembly |
| 42 | 0212740 | Box, Light Display | 101 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 43 | 3150640 | Fan blade, Ref/Fre Evap. | 102 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 44 | 3550770 | 90° Stop Pin | 103 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 45 | 3082140 | Light Terminator | 104 | 0233820 | Switch Housing, Freezer |
| 46 | 6201590 | Screw, #8-32X1/2 Taplite Pn Trx | 105 | 3060140 | SPST Light Switch |
| 47 | 6220540 | Screw Grommet / Stand-off | 106 | 3060130 | SPST Fan/Icemaker Switch |
| 48 | 6201010 | Screw, #8-15 x 2" Pan Head | 107 | 3082060 | Defrost Terminator |
| 49 | 4162700 | Shroud Assy, Ref Fan | 108 | 1801100 | Heater Clip |
| 50 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 109 | 6120340 | Aluminum Strap |
| 51 | 3050250 | Socket, Light Med Base Double | 110 | 4325190 | Defrost Heater Assy |
| 52 | 3030030 | Light Bulb, 40 Watt | 111 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 53 | 3060130 | SPST Fan/Icemaker Switch | 112 | 6110270 | Bolt, #10-32 X 1/4 Rd Hd |
| 54 | 3060140 | SPST Light Switch | 113 | 3140400 | Icemaker Rudder Arm |
| 55 | 6160240 | Nylon Spacer | 114 | 4321820 | Power Cord |
| 56 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 115 | 3520250 | Water Inlet Fitting Assy |
| | | | I | | - - |

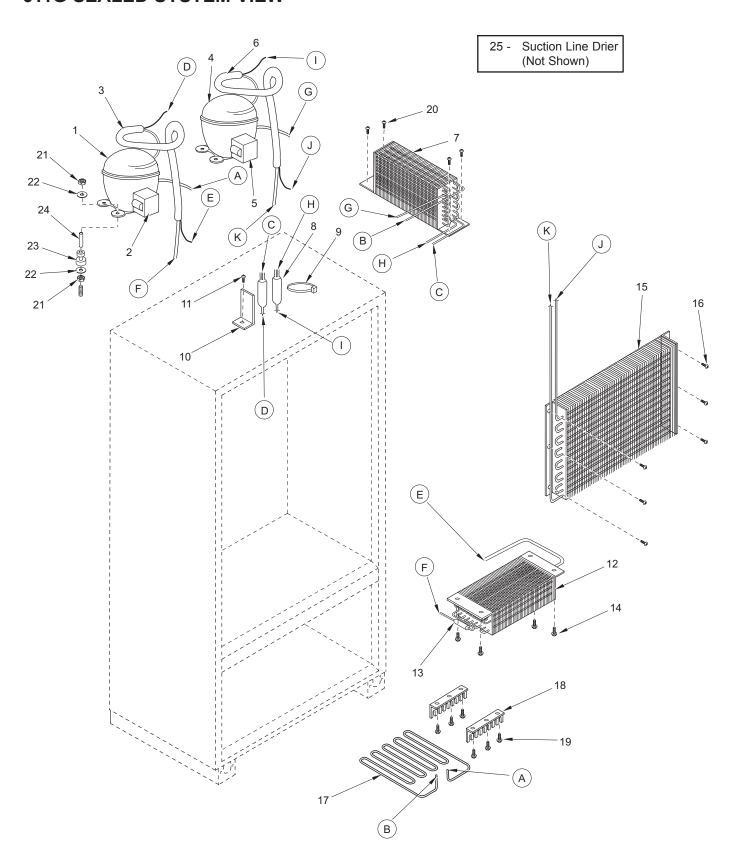




611G SEALED SYSTEM PARTS LIST

| Ref# | Part # | Description |
|------|---------|---|
| 1 | 4202280 | Compressor, (EMI60HER) |
| 2 | 3111460 | Relay, (1351408 - for EMI60HER) |
| | 3111470 | Overload, (4TM757NFB - for EMI60HER) |
| 3 | 4251350 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 5 | 3111370 | Relay, (1351400 - for EMI30HER) |
| | 3111410 | Overload, (4TM734LFB - for EMI30HER) |
| 6 | 4251550 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3130600 | Evaporator Coil, Fre |
| 13 | 3011130 | Freezer Accumulator |
| 14 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 15 | 3130630 | Evaporator, Ref |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 25 | 3014100 | Suction Line Drier (Service Only - Not Shown) |

611G SEALED SYSTEM VIEW

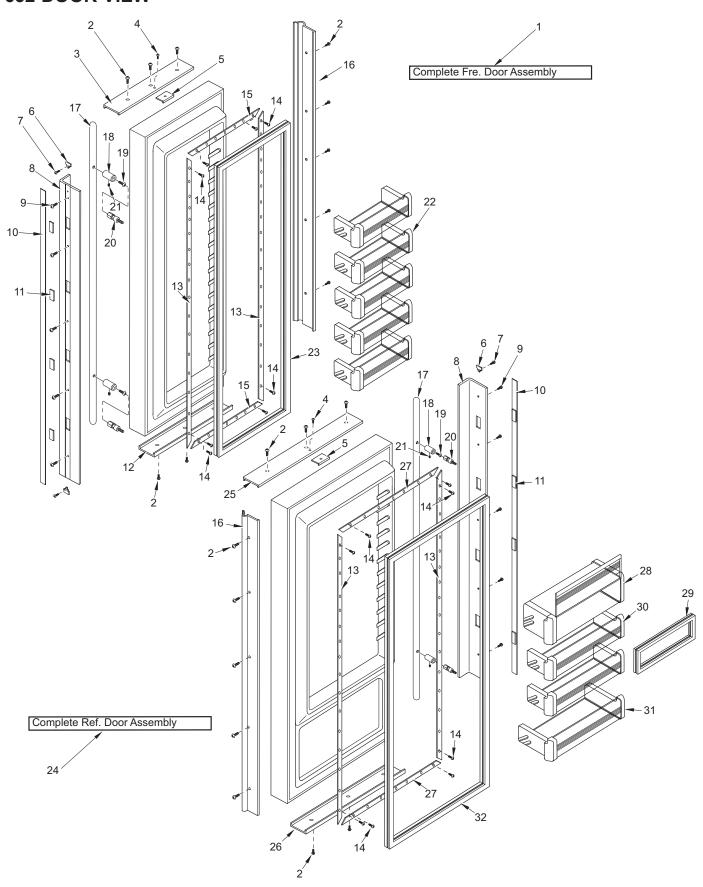




632 DOOR PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|------|---------|--|-------|---------|---|
| 1 | 4132075 | Freezer Door Assy, Frame/Overlay | 17 | 4132190 | Handle Assy, SS Round End |
| | | (See SN Breaks) | | | (Incl. Stand-offs) - (See SN Breaks) |
| | 4132905 | Freezer Door Assy, Frame/Overlay | | 4133580 | Handle Assy, SS Blunt (Incl Stand-offs) |
| | | (See SN Breaks) | | | (See SN Breaks) |
| | 4132495 | Fre Door Assy, SS (See SN Breaks) | | 4133730 | Handle Assy, SS OBR Standoffs |
| | 4134565 | Fre Door Assy, SS (See SN Breaks) | | | (See SN Breaks) |
| 2 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 18 | 3511320 | Handle Stand-off 1"D (See SN Breaks) |
| 3 | 2230603 | Door Trim, Top; Freezer | | 3512150 | Standoff, SS Oval (See SN Breaks) |
| 4 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 19 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 20 | 3511330 | Handle Mounting Stud |
| 6 | 3413340 | Handle/Trim End Cap | 21 | 6110730 | Set Screw #10-32 X 1/4 SS Cone |
| 7 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 | 22 | 4330460 | Fre Door Shelf Assy (See SN Breaks) |
| 8 | 4132220 | Door Handle Assembly (Framed) | | 4330660 | Fre Door Shelf Assy (See SN Breaks) |
| | 4132320 | Handle-Side Door Trim (Overlay) | 23 | 3211090 | Door Gasket, Fre (See SN Breaks) |
| 9 | 6201300 | Tapping Screw, #8 x 1/2 | | 3212090 | Door Gasket, Fre (See SN Breaks) |
| 10 | 4131860 | Handle/Trim Molding Assy | 24 | 4132935 | Refrigerator Door Assy, Frame/Overlay |
| 11 | 3451000 | Magnet, Trim Strip - 3" | | 4134555 | Refrigerator Door Assy, SS |
| 12 | 2230604 | Door Trim, Bottom; Freezer | 25 | 2230601 | Door Trim, Top; Refrigerator |
| 13 | 3420260 | Gasket Retainer, 66.875" | 26 | 2230602 | Door Trim, Bottom; Refrigerator |
| 14 | 6200410 | Screw, #8 x 1/2 Slot Head Hex | 27 | 3420200 | Gasket Retainer, 27.062" |
| 15 | 3420140 | Gasket Retainer, 16.125" | 28 | 4330450 | Dairy Compartment Assy |
| 16 | 3511130 | Door Trim, Hinge Side - (SS Model) | 29 | 3211830 | Dairy Compartment Gasket |
| | 3511131 | Door Trim, Hinge Side - Mitered Corner | 30 | 4330470 | Refrig. Door Shelf Assy |
| | | | 31 | 4330520 | Gallon Door Shelf Assy (Sales Acc.) |
| | | | 32 | 3212110 | Door Gasket, Refrigerator |

632 DOOR VIEW

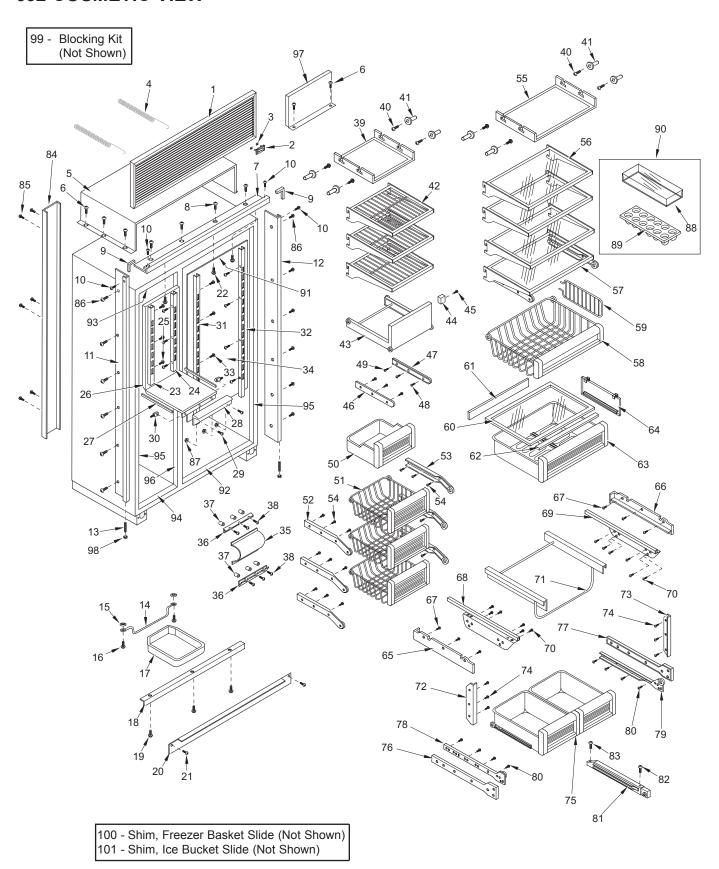




632 COSMETIC PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | <u>Description</u> |
|------|--------------------|---|----------|--------------------|---|
| 1 | 6LG4811 | Louvered Grille Assy, 48" x 11" | l 46 | 3410932 | Ice Bucket Slide, Left |
| ' | 6PG4811 | Panel Grille Assy, 48" x 11" | 47 | 3410931 | Ice Bucket Slide, Right |
| | 6SG4811 | SS Grille 48" x 11"" (See SN Breaks) | 48 | 6200450 | Screw, #8 x 1" Type AR Flat |
| | 6SG4811/S | SS Grille,48X11-CLSC (See SN Breaks) | 49 | 6200710 | Screw, #8-18 x 3/8" Fillister HD |
| 2 | 3580230 | Nameplate w/ Pegs | 50 | 4181580 | Ice Bucket Assy (See SN Breaks) |
| _ | 3580210 | Name Plate, Stick-on | | 4181830 | Ice Bucket Assy (See SN Breaks) |
| 3 | 6150140 | Spring Grip Nut, 1/8" | 51 | 4181570 | Freezer Basket Assy (See SN Breaks) |
| 4 | 3450900 | Grille Spring | " | 4181820 | Freezer Basket Assy (See SN Breaks) |
| 5 | 4281040 | Unit Shroud Assy | 52 | 4180972 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| 6 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | 4181842 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| 7 | 2229702 | Main Frame, Top (See SN Breaks) | 53 | 4180971 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| | 2229709 | Main Frame, Top (See SN Breaks) | | 4181841 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 8 | 6200010 | Screw, #10-12 x 3/4 Pan HD | 54 | 6200450 | Screw, #8 x 1" Type AR Flat |
| 9 | 2210701 | Main Frame Angle | 55 | 4161520 | Refrig. Light Diffuser Assembly |
| 10 | 6200070 | Screw, #4-24 x 3/8 Flat HD | 56 | 3601891 | Glass Shelf, Spill Proof |
| 11 | 4120590 | Main Frame Assy, Left (See SN Breaks) | 57 | 4181560 | Refrig. Roll-out Shelf Assy |
| | 4120830 | Main Frame Assy, Left (See SN Breaks) | 58 | 4181540 | Refrig. Roll-out Basket Assy |
| 12 | 4120580 | Main Frame Assy, Right (See SN Breaks) | 59 | 3411160 | Ref Roll-Out Bskt Divider |
| | 4120820 | Main Frame Assy, Right (See SN Breaks) | 60 | 4151770 | Crisper Glass Assembly (Incl Seals) |
| 13 | 3550190 | Bottom Hinge Stud | 61 | 3211770 | Crisper Glass Seal, Rear |
| 14 | 3420760 | Drain Pan Holder | 62 | 3211740 | Crisper Glass Seal, Front |
| 15 | 3420670 | Screw Spacer | 63 | 4181460 | High Humidity Drawer Assembly |
| 16 | 6201060 | Screw, #8 x 1-1/4 Ph Flat Tap | 64 | 3413100 | Drawer Divider |
| 17 | 0164940 | Drain Pan | 65 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| 18 | 0169970 | Kickplate Support | 66 | 3421721 | Top Crisper glass Support, Wide-RH |
| 19 | 6200010 | Screw, #10-12 x 3/4 Pan HD | 67 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 20 | 0260150 | Kickplate, Black-Solid | 68 | 4181421 | Top Crisper Slide Assy, Narrow-RH |
| | 0167810 | Kickplate, Stainless Steel | 69 | 4181411 | Top Crisper Slide Assembly, Wide-RH |
| 21 | 6200050 | Screw, #10-12 x 1/2 Pan HD | 70 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 71 | 3421760 | Humidity Drawer Slide-Frame |
| 22 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD | 72 | 3421732 | Crisper Filler Strip, Wide |
| 23 | 3601852 | Fre Shelf Ladder, Lft (See SN Breaks) | 73 | 3421731 | Crisper Filler Strip, Narrow |
| | 3602252 | Fre Shelf Ladder, Lft (See SN Breaks) | 74 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 24 | 3601851 | Fre Shelf Ladder, Right (See SN Breaks) | 75 | 4181490 | Small Storage Drawer Assembly |
| 0.5 | 3602251 | Fre Shelf Ladder, Right (See SN Breaks) | 76 | 3421691 | Bot Crisper Slide Support, Narrow |
| 25 | 6200710 | Screw, #8-18 x 3/8 Fillister HD | 77 | 3421692 | Bot Crisper Slide Support, Wide |
| 26 | 0233890 | Freezer Duct/Shelf (See SN Breaks) | 78 | 3413112 | Bot Crisper Slide, Cabinet - Left |
| 27 | 0234370 | Freezer Duct/Shelf (See SN Breaks) | 79 80 | 3413111 | Bot Crisper Slide, Cabinet - Right |
| 27 | 3210830 | Evaporator Shelf Seal (See SN Breaks) | 81 | 6201230 | Screw, #8 x 7/8" w/a #7 PH FT Head |
| 28 | 3212060 3413020 | Evaporator Shelf Seal (See SN Breaks) Evaporator Shelf Front (See SN Breaks) | 82 | 4181430 6201120 | Center Crisper Slide Assembly Screw, #8-18 x 1.75 Truss SS |
| 20 | 3413740 | Evaporator Shelf Front (See SN Breaks) | 83 | 6200130 | Screw, #8-18 x 3/4" Truss HD |
| 29 | 6201290 | Screw, #8-15 PH PN HD SS | 84 | 0168120 | Back Duct (See SN Breaks) |
| 30 | 6220070 | Support, .44 x .63 x 1.53" | 07 | 0169600 | Back Duct (See SN Breaks) |
| 31 | 3601812 | Refrig. Shelf Ladder, Left | 85 | 6201060 | Screw, #8x1-1/4" Ph Flat Tap |
| 32 | 3601811 | Refrig. Shelf Ladder, Right | 86 | 6200210 | Screw, #8-32 x 1/2" Flat Head |
| 33 | 6200710 | Screw, #8-18 x 3/8" Fillister HD | 87 | 6150820 | Palnut, .25 |
| 34 | 0200830 | Refrig Evap Cover (See SN Breaks) | 88 | 3412280 | Egg Tray Cover |
| | 0201160 | Refrig Evap Cover (See SN Breaks) | 89 | 3412270 | Egg Tray |
| 35 | 3500600 | Fre Lower Light Diffuser | 90 | 4131810 | Egg Tray with Cover |
| 36 | 0234110 | Fre Lwr Light Diff Rtnr (See SN Breaks) | 91 | 2811201 | Breaker Strip, Ref. Top (See SN Breaks) |
| | 0234380 | Fre Lwr Light Diff Rtnr (See SN Breaks) | 92 | 2811202 | Breaker Strip, Ref Bot (See SN Breaks) |
| 37 | 6220340 | Screw Grommet / Stand-off | 93 | 2811203 | Breaker Strip, Fre Top (See SN Breaks) |
| 38 | 6201010 | Screw, #8-15 x 2" Pan Head | 94 | 2811204 | Breaker Strip, Fre Bot (See SN Breaks) |
| 39 | 4160820 | Fre Light Diffuser Assy (See SN Breaks) | | 4203910 | Patch, Fre Face Frm Sill (See SN Breaks) |
| | 4161440 | Fre Light Diffuser Assy (See SN Breaks) | 95 | 2811205 | Brkr Strp,Fre/LS, Ref/RS(See SN Breaks) |
| 40 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 96 | 1811300 | Breaker Strip, Mullion (See SN Breaks) |
| 41 | 3520420 | Insert / Diffuser Stand-off | 97 | 4280950 | Compressor Shroud Assembly |
| 42 | 3601870 | Freezer Wire Shelf (See SN Breaks) | 98 | 6150200 | Nut, 1/4-20 Hex |
| | 3602200 | Freezer Wire Shelf (See SN Breaks) | 99 | 4201330 | Blocking Components; 48" |
| 43 | 4180830 | Ice Bkt Carriage Assy (See SN Breaks) | 100 | 3411890 | Shim, Fre. Basket Slide (See SN Breaks) |
| | 4181920 | Ice Bkt Carriage Assy (See SN Breaks) | | 3121120 | Shim, Fre. Basket Slide (See SN Breaks) |
| 44 | 3421090 | IM Carriage Guide | 101 | 3411970 | Shim, Ice Bucket Slide |
| 45 | 6200340 | Screw, #6-20 x 1/2" Pan Head | | | |
| | | | | | |

632 COSMETIC VIEW

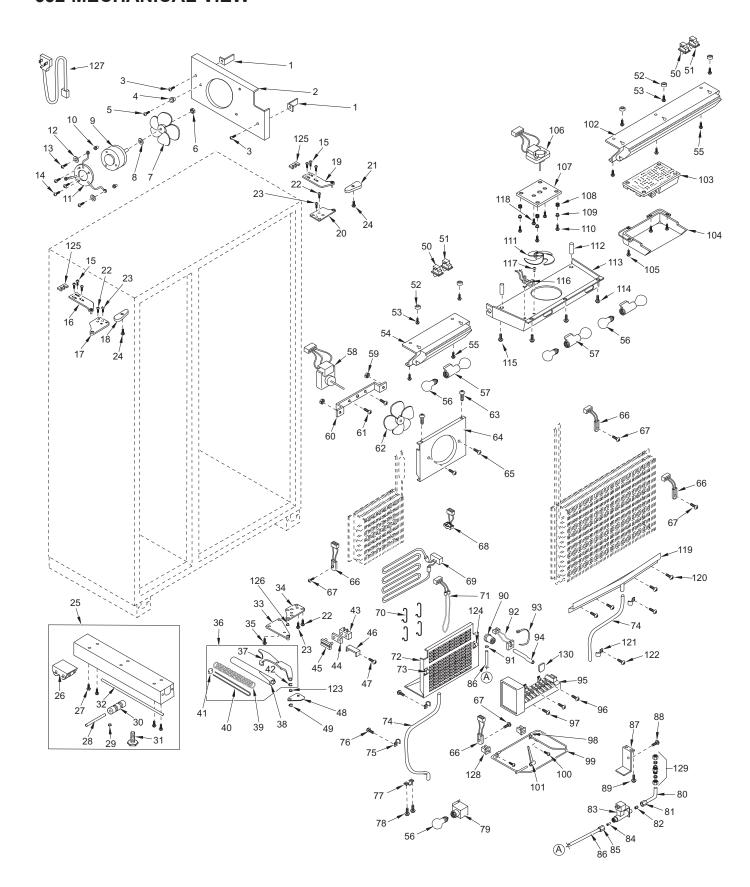




632 MECHANICAL PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | Description |
|--|---|---|--|---|--|
| 123456789 101123456789 101123456789 1011234456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 1011244456789 10112444456789 10112446789 10112446789 10112446789 10112446789 10112444456789 10112446789 10112446789 10112446789 10112446789 10112444 | 3450290 0169980 6200010 3420670 6200450 6150410 3150320 3210340 4200740 4200741 6150330 3150650 6240350 6201280 6210280 6210280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 62101280 6200140 4151271 4151471 4151271 4151471 4151281 4151 | Angle Bracket Condenser Fan Shroud Screw, #10-12 x 3/4" Pan HD Screw Spacer Screw, #8 x 1" Type AR Flat Nut, 1/4-20 Fan Blade, Cond, 5 prop, 7" Neoprene Silencer, 7/8" Motor Pkg, Cond Fan (blade not incl.) (See SN Breaks) Motor Pkg, Cond Fan (blade not incl.) (See SN Breaks) Well Nut, .75D x .804", #10-32 Condenser Fan Bracket Fender Washer, .25x1.25x.06 Machine Screw, #10-32 x 1-1/4" Screw, #8-32 x 3/8" Slotted Hex T25 Bolt, 1/4-20x3/4 Spinlock Zinc Cabinet Hinge Assy, Upper LH Door Hinge Assy, Top LH Top Cabinet Hinge Cover, LH Cabinet Hinge Cover, LH Cabinet Hinge Cover, RH Bolt, #10-24 x 1/2" Flat Socket HD Screw, #6 x 3/8" T25 Flat Head PH Screw, #8-15 x 3/8" Truss HD Base Assy (w/rollers) Base Rear Roller Assy Screw, #10-12 x 3/4" Pan HD Straight Pin, Base Assy, .312" x 2.88" Canoe Clip Cabinet Roller (Single) Leveling Leg, #18-3/8 x 1" Adjusting Screw Cabinet Hinge Assy, Lower RH Cabinet Hinge Assy, Lower RH Cabinet Hinge Assy, Lower RH Door Hinge, Bottom LH Bolt, 1/4-20x3/4 Spinlock Zinc Door Closer Assy, LH Door Closer Assy, LH Door Closer Assy, LH Door Closer Arm - LH Door Closer Assy, LH Door Closer Fyring Low Pull Door Closer Spring Door Closer Fyring Door Closer Bearing Door Closer Bearing Door Closer Guide Door Stop - 90 Degree Door Stop - 105 Degree E - Ring, 7/16" SPST Light Switch SPST Fan/Icemaker Switch Nylon Spacer Screw, #8-18 x 1/2 PH Truss HD | Ref # 65 66 67 689 70 71 72 73 74 75 76 77 78 79 80 81 82 83 845 86 87 889 91 92 93 94 95 96 97 103 104 105 106 107 108 109 1101 1112 113 114 115 116 117 118 | Part # 6110020 3014350 6201270 3082060 4322130 4324690 1801100 3013540 4151120 41511940 6120160 1601400 6120050 6200010 3050170 3050260 41616000 2600297 3520380 3520370 4202790 3520050 6200170 1607700 620470 3013820 6120450 3024110 4200521 6200120 6200120 3421070 4161542 4202800 4203520 6200120 3421070 4160902 4161542 4202800 4203520 6201270 6201010 6201270 6201010 610270 6201010 610270 | Bolt, #10-24 x 3/8" Truss HD Thermistor Screw, #8-18 x 5/8" PH PN SS-Gnd Defrost Terminator Defrost Heater Assy (See SN Breaks) Defrost Heater Assy (See SN Breaks) Heater Clip Drain Tube Heater Fre Evap Cover Assy. (See SN Breaks) Fre Evap Cover Assy. (See SN Breaks) Cord Clip, Plastic, 5/16 x 1/2" Drain Tube, Wire - 1/2" x 72" Tube Clamp, Plastic, 5/8" Screw, #10-12 x 3/4" Pan HD U-Clamp, 5/8" Screw, #10-12 x 3/4" Pan HD Light Sckt Sngl Straight (See SN Breaks) Socket, Light Med Base (See SN Breaks) Socket, Light Med Base (See SN Breaks) Light Assy, Lower Freezer Tube, Copper L-Shaped Compression Nut Compression Sleeve Water Valve Brass Insert, Solenoid Icemaker Nylon Nut, 1/4" Plastic Water Line Solenoid Water Valve Bracket Screw, #10-24 x 1/2" PH Hex Washer Screw, #8-18 x 5/8" PH PN SS-Gnd Water Inlet Tube Fill Tube Clamp Fill Tube Heater Locking Cable Tie 9.7" BLK Fill Tube Extension Icemaker Assembly Screw, #10-12 x 1/2" Truss HD Screw, #10-12 x 1/2" Truss HD Screw, #3-32 x 1/2" Pan HD Tube Clamp, Nylon, 3/16" Icemaker Control Arm Screw, #10-12 x 1/2" Truss HD Connecting Rod Control Panel Assy (See SN Breaks) Control Panel Assy (See SN Breaks) Control Board Package (See SN Breaks) Control Board Fackage (See SN Breaks) Control Board Package (See SN Breaks) Control Board Fackage (See SN Breaks) Control Board Package (See SN Breaks) Control Board Fackage (See SN Breaks) Control Board Fackage (See SN Breaks) Contr |
| 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 | 0183111 0183112 3421300 3450530 3450710 3421290 0165980 3421260 3450570 0165970 3421310 0166360 6180010 DS90 DS105 3450560 3060140 3060140 3060140 6160240 6200720 | Door Closer Arm - RH Door Closer Arm - LH Door Closer Housing Door Closer Spring Low Pull Door Closer Spring Door Closer Spring Retainer Door Closer Spring Retainer Door Closer Bearing Door Closer Guide Support Door Closer Guide Support Door Closer Guide Support Door Stop Cushion Retainer Pop Rivet, 1/8" Door Stop - 90 Degree Door Stop - 90 Degree E - Ring, 7/16" SPST Light Switch SPST Fan/Icemaker Switch Nylon Spacer Screw, #8-18 x 1/2 PH Truss HD | 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 | 4161542 4202800 4203520 3412790 3413940 6201270 4200170 0211620 0212520 3220250 3520410 6110270 3150640 6220540 4161510 6201270 6201010 3082140 6180010 6110270 | Control Board Pkg-Dual (See SN Breaks) Control Board Package (See SN Breaks) Control Board Enclsr (See SN Breaks) Control Board Enclsr (See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd Refrig. Fan Mtr Cmpnts (Blade not Incl.) Refrigerator Fan Brkt (See SN Breaks) Refrigerator Fan Brkt (See SN Breaks) Refrigerator Fan Brkt (See SN Breaks) Grommet, 3/16" x 7/16" x 9/32" Brass Insert, Fan Bolt, #10-32 x 1/4" RD HD Fan blade, Ref/Fre Evap. Screw Grommet / Stand-off Refrig. Fan Shroud Assembly Screw, #8-18 x 5/8" PH PN SS-Gnd Screw, #8-15 x 2" Pan Head Light Terminator Pop Rivet, 1/8" Bolt, #10-32 x 1/4" RD HD |
| 54 55 56 57 58 59 60 61 62 63 64 | 4160771 4161951 6201270 3030030 3050180 3050250 4161610 4200160 6150030 0232770 6110270 3150060 6201270 0234040 0234440 | Freezer Front Pnl Assy (See SN Breaks) Freezer Front Pnl Assy (See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd Light Bulb, 40 Watt Light Socket, Double (See SN breaks) Sckt, Light Md Base Dbl (See SN breaks) Sckt, Light Md Base Dbl (See SN breaks) Light Assy, Upper Freezer (Incl. Socket) Freezer Fan Motor (Blade not Incl.) Nut, #10-24 Hex SS Fan Bracket, Freezer Bolt, #10-32 x 1/4" RD HD Fan Blade; Freezer; 5 Prop; 5-1/2" Screw, #8-18 x 5/8" PH PN SS-Gnd Fre Evap Fan Shroud (See SN Breaks) Fre Evap Fan Shroud (See SN Breaks) | 119 120 121 122 123 124 125 126 127 128 129 130 | 4190160 0260550 6201270 6120050 6200120 3450550 6120330 0168680 3421270 4321820 6220220 3520250 3140360 | Drain Trough Assembly (See SN Breaks) Drain Trough Assembly (See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd Tube Clamp, Plastic, 5/8" Screw, #10-12 x 1/2" Truss HD E-Ring / Klipring , 5/16" Wire Clip Shim - Hinge Hinge Bearing, 3/8" x 5/8" Power Cord Screw Grommet, 1/32" X 3/8" SQ. Water Inlet Fitting Assy Fill Cup Plug |

632 MECHANICAL VIEW

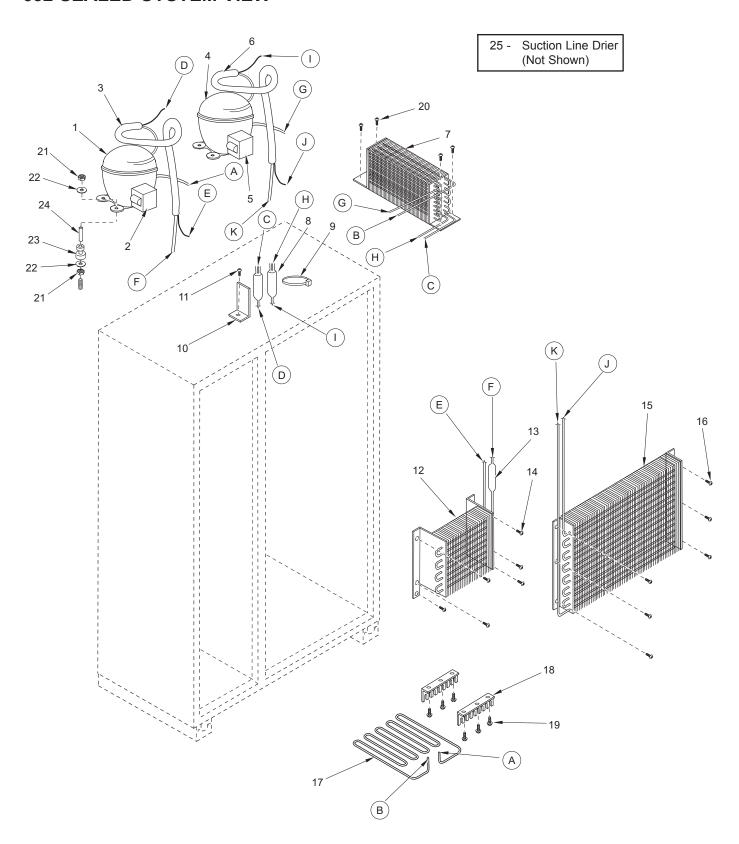




632 SEALED SYSTEM PARTS LIST

| Ref# | Part # | Description |
|----------|--------------------|--|
| 1 | 4202250 | Compressor, Freezer (DA73) (See SN Breaks) |
| | 4202280 | Compressor, Freezer (EMI60HER) (See SN Breaks) |
| 2 | 3111350 | Relay, (8EA403) (Used with RG108 Compressor) |
| | 3111041 | Relay, (PTH490D-AS100) (Used with DA73 Compressor) |
| | 3111460 | Relay, (1351408) (Used with EMI60HER Compressor) |
| | 3111390 | Overload, (4TM419TFB) (Used with RG108 Compressor) |
| | 3111430 | Overload, (4TM419MFB) (Used with DA73 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor) |
| | 3111133 | Capacitor,(15Mf) (Used with RG108 Compressor) |
| | 3111070 | Running Capacitor, (12Mf) (Used with DA73 Compressor) |
| 3 | 4251260 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER |
| 5 | 3111370 | Relay, (1351400 - For EMI30HER Comp) |
| | 3111410 | Overload, (4TM734LFB - For EMI30HER Comp) |
| 6 | 4251300 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3130470 | Evaporator Coil, Fre (See SN Breaks) |
| 40 | 3130530 | Evaporator Coil, Fre (See SN Breaks) |
| 13 | 3011130 | Freezer Accumulator |
| 14 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 15 16 | 3130260 | Evaporator, Refrig. |
| 16 17 | 6201270 2600138 | Screw, #8-18 x 5/8" PH PN SS-Gnd Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 25 | 3014100 | Suction Line Drier (Service Only) |

632 SEALED SYSTEM VIEW

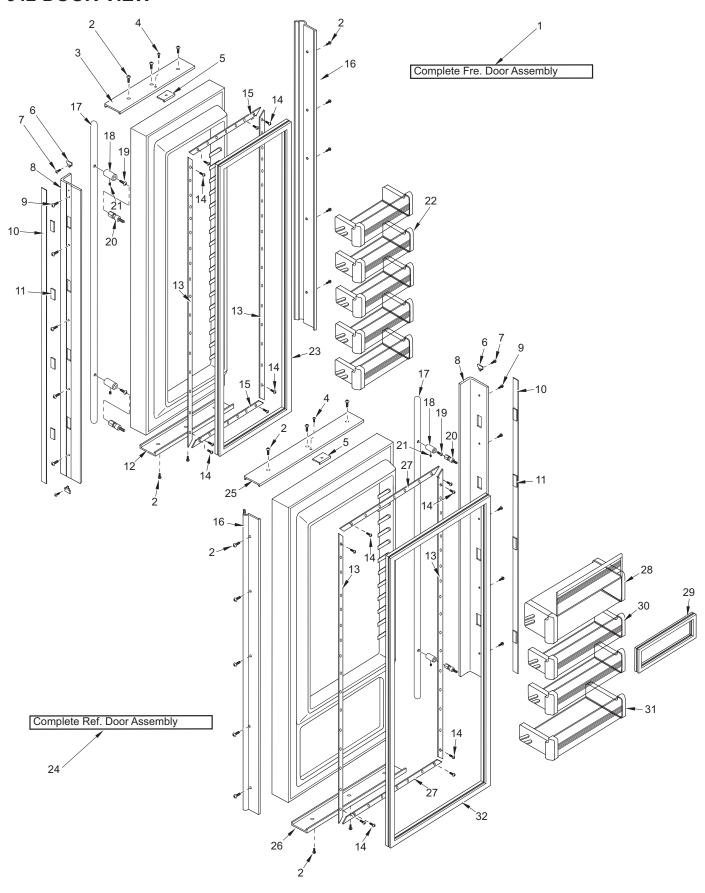




642 DOOR PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|------|---------|--|-------|---------|---|
| 1 | 4132055 | Freezer Door Assy, Frame/Overlay | 17 | 4132190 | Handle Assy, SS Round End |
| | | (See SN Breaks) | | | (Incl. Stand-offs) - (See SN Breaks) |
| | 4133175 | Freezer Door Assy, Frame/Overlay | | 4133580 | Handle Assy, SS Blunt (Incl Stand-offs) |
| | | (See SN Breaks) | | | (See SN Breaks) |
| | 4132565 | Fre Door Assy, SS (See SN Breaks) | | 4133730 | Handle Assy, SS OBR Standoffs |
| | 4133235 | Fre Door Assy, SS (See SN Breaks) | | | (See SN Breaks) |
| 2 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 18 | 3511320 | Handle Stand-off 1"D (See SN Breaks) |
| 3 | 2230617 | Door Trim, Top; Freezer | | 3512150 | Standoff, SS Oval (See SN Breaks) |
| 4 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 19 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 20 | 3511330 | Handle Mounting Stud |
| 6 | 3413340 | Handle/Trim End Cap | 21 | 6110730 | Set Screw #10-32 X 1/4 SS Cone |
| 7 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 | 22 | 4330580 | Fre Door Shelf Assy (See SN Breaks) |
| 8 | 4132220 | Door Handle Assembly (Framed) | | 4330650 | Fre Door Shelf Assy (See SN Breaks) |
| | 4132320 | Handle-Side Door Trim (Overlay) | 23 | 3211670 | Door Gasket, Fre (See SN Breaks) |
| 9 | 6201300 | Tapping Screw, #8 x 1/2 | | 3212190 | Door Gasket, Fre (See SN Breaks) |
| 10 | 4131860 | Handle/Trim Molding Assy | 24 | 4133155 | Refrigerator Door Assy, Frame/Overlay |
| 11 | 3451000 | Magnet, Trim Strip - 3" | | 4133225 | Refrigerator Door Assy, SS |
| 12 | 2230618 | Door Trim, Bottom; Freezer | 25 | 2230615 | Door Trim, Top; Refrigerator |
| 13 | 3420260 | Gasket Retainer, 66.875" | 26 | 2230616 | Door Trim, Bottom; Refrigerator |
| 14 | 6200410 | Screw, #8 x 1/2 Slot Head Hex | 27 | 3421620 | Gasket Retainer, 23.125" |
| 15 | 3421610 | Gasket Retainer, 13.813" | 28 | 4330560 | Dairy Compartment Assy |
| 16 | 3511130 | Door Trim, Hinge Side - (SS Model) | 29 | 3211850 | Dairy Compartment Gasket |
| | 3511131 | Door Trim, Hinge Side - Mitered Corner | 30 | 4330530 | Refrig. Door Shelf Assy |
| | | | 31 | 4330540 | Gallon Door Shelf Assy (Sales Acc.) |
| | | | 32 | 3212180 | Door Gasket, Refrigerator |

642 DOOR VIEW

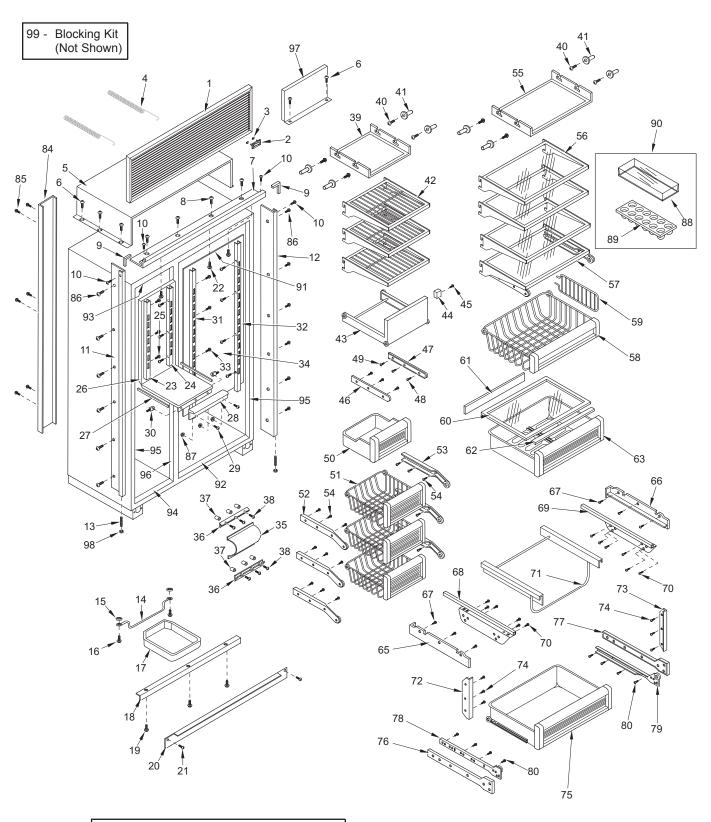




642 COSMETIC PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|----------|--------------------|---|----------|--------------------|--|
| 1 | 6LG4211 | Louvered Grille Assy, 42" x 11" | 45 | 6200340 | Screw, #6-20 x 1/2" Pan Head |
| | 6PG4211 | Panel Grille Assy, 42" x 11" | 46 | 3410932 | Ice Bucket Slide, Left |
| | 6SG4211 | SS Grille Assy, 42 x 11 (See SN Breaks) | 47 | 3410931 | Ice Bucket Slide, Right |
| | 6SG4211/S | SS Grille,42X11-CLSC (See SN Breaks) | 48 | 6200450 | Screw, #8 x 1" Type AR Flat |
| 2 | 3580230 | Nameplate w/ Pegs | 49 | 6200710 | Screw, #8-18 x 3/8" Fillister HD |
| • | 3580210 | Name Plate, Stick-on | 50 | 4181500 | Ice Bucket Assy (See SN Breaks) |
| 3 | 6150140 | Spring Grip Nut, 1/8" | -4 | 4181960 | Ice Bucket Assy (See SN Breaks) |
| 4 | 3450900 4280940 | Grille Spring Unit Shroud Assy | 51 | 4181640 4181970 | Freezer Basket Assy (See SN Breaks) |
| 5 6 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 52 | 4180972 | Freezer Basket Assy (See SN Breaks) Fre Bskt Slide Assy-LH (See SN Breaks) |
| 7 | 2229703 | Main Frame, Top (See SN Breaks) | 52 | 4181842 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| ' | 2229708 | Main Frame, Top (See SN Breaks) | 53 | 4180971 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 8 | 6200010 | Screw, #10-12 x 3/4 Pan HD | | 4181841 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 9 | 2210701 | Main Frame Angle | 54 | 6200450 | Screw, #8 x 1" Type AR Flat |
| 10 | 6200070 | Screw, #4-24 x 3/8 Flat HD | 55 | 4161990 | Refrig. Light Diffuser Assembly |
| 11 | 4120590 | Main Frame Assy, Left (See SN Breaks) | 56 | 3602042 | Glass Shelf, Spill Proof |
| | 4120830 | Main Frame Assy, Left (See SN Breaks) | 57 | 4181650 | Refrig. Roll-out Shelf Assy |
| 12 | 4120580 | Main Frame Assy, Right (See SN Breaks) | 58 | 4181530 | Refrig. Roll-out Basket Assy |
| 40 | 4120820 | Main Frame Assy,Right (See SN Breaks) | 59 | 3411160 | Ref Roll-Out Bskt Divider |
| 13 | 3550190 | Bottom Hinge Stud | 60 | 4151760 | Crisper Glass Assembly (Incl Seals) |
| 14 15 | 3420760 | Drain Pan Holder | 61 | 3211780 | Crisper Glass Seal, Rear |
| 15 16 | 3420670 6201060 | Screw Spacer Screw, #8 x 1-1/4 Ph Flat Tap | 62 63 | 3211750 4181450 | Crisper Glass Seal, Front High Humidity Drawer Assembly |
| 17 | 0164940 | Drain Pan | 64 | N/A | riigii ridilidity Drawei Assembly |
| 18 | 0167900 | Kickplate Support (See SN Breaks) | 65 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| 10 | 0260700 | Kickplate Support (See SN Breaks) | 66 | 3421721 | Top Crisper glass Support, Wide-RH |
| 19 | 6200010 | Screw, #10-12 x 3/4 Pan HD | 67 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 20 | 0169820 | Kickplate, Black-Solid | 68 | 4181421 | Top Crisper Slide Assy, Narrow-RH |
| | 0168210 | Kickplate, Stainless Steel | 69 | 4181411 | Top Crisper Slide Assembly, Wide-RH |
| 21 | 6200050 | Screw, #10-12 x 1/2 Pan HD | 70 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 71 | 3421780 | Humidity Drawer Slide-Frame |
| 22 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD | 72 | 3421732 | Crisper Filler Strip, Wide |
| 23 | 3601852 | Fre Shelf Ladder, Left (See SN Breaks) | 73 | 3421731 | Crisper Filler Strip, Narrow |
| 24 | 3602252 3601851 | Fre Shelf Ladder, Left (See SN Breaks) | 74 75 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 24 | 3602251 | Fre Shelf Ladder, Right (See SN Breaks) Fre Shelf Ladder, Right (See SN Breaks) | 76 | 4181480 3421691 | Small Storage Drawer Assembly Bot Crisper Slide Support, Narrow |
| 25 | 6200710 | Screw, #8-18 x 3/8 Fillister HD | 77 | 3421692 | Bot Crisper Slide Support, Wide |
| 26 | 0234080 | Freezer Duct/Shelf (See SN Breaks) | 78 | 3413112 | Bot Crisper Slide, Cabinet - Left |
| | 0234830 | Freezer Duct/Shelf (See SN Breaks) | 79 | 3413111 | Bot Crisper Slide, Cabinet - Right |
| 27 | 3210830 | Evaporator Shelf Seal (See SN Breaks) | 80 | 6201230 | Screw, #8 x 7/8" w/a #7 PH FT Head |
| | 3212060 | Evaporator Shelf Seal (See SN Breaks) | 81 | N/A | |
| 28 | 3413200 | Evaporator Shelf Front (See SN Breaks) | 82 | N/A | |
| | 3413930 | Evaporator Shelf Front (See SN Breaks) | 83 | N/A | |
| 29 | 6201290 | Screw, #8-15 PH PN HD SS | 84 | 0168120 | Back Duct (See SN Breaks) |
| 30 | 6220070 | Support, .44 x .63 x 1.53" | 0.5 | 0169600 | Back Duct (See SN Breaks) |
| 31 32 | 3601812 3601811 | Refrig. Shelf Ladder, Left Refrig. Shelf Ladder, Right | 85 86 | 6201060 6200210 | Screw, #8x1-1/4" Ph Flat Tap Screw, #8-32 x 1/2" Flat Head |
| 33 | 6200710 | Screw. #8-18 x 3/8" Fillister HD | 87 | 6150820 | Palnut, .25 |
| 34 | 0200710 | Refrig Evap Cover (See SN Breaks) | 88 | 3412280 | Egg Tray Cover |
| 0. | 0201270 | Refrig Evap Cover (See SN Breaks) | 89 | 3412270 | Egg Tray |
| 35 | 3500600 | Fre Lwr Light Diffuser (See SN Breaks) | 90 | 4131810 | Egg Tray with Cover |
| | 3500690 | Fre Lwr Light Diffuser (See SN Breaks) | 91 | 2811217 | Breaker Strip, Ref. Top (See SN Breaks) |
| 36 | 0234110 | Fre Lwr Light Diff Rtnr (See SN Breaks) | 92 | 2811218 | Breaker Strip, Ref Bot (See SN Breaks) |
| | 0235130 | Fre Lwr Light Diff Rtnr (See SN Breaks) | 93 | 2811219 | Breaker Strip, Fre Top (See SN Breaks) |
| 37 | 6220340 | Screw Grommet / Stand-off | 94 | 2811220 | Breaker Strip, Fre Bot (See SN Breaks) |
| 38 | 6201010 | Screw, #8-15 x 2" Pan Head | | 4203920 | Patch,Fre Face Frm Sill (See SN Breaks) |
| 39 | 4161020 | Fre Light Diffuser Assy (See SN Breaks) | 95 | 2811205 | Brkr Strp,Fre/LS,Ref/RS (See SN Breaks) |
| 40 | 4162050 | Fre Light Diffuser Assy (See SN Breaks) | 96 | 1811300 | Breaker Strip, Mullion (See SN Breaks) |
| 40 41 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 97 | 4280950 | Compressor Shroud Assembly |
| 41 42 | 3520420 3601980 | Insert / Diffuser Stand-off Freezer Wire Shelf (See SN Breaks) | 98 99 | 6150200 4202860 | Nut, 1/4-20 Hex Blocking Components; 42" |
| 74 | 3602210 | Freezer Wire Shelf (See SN Breaks) | 100 | 3411890 | Shim, Fre Basket Slide (See SN Breaks) |
| 43 | 4181660 | Ice Bkt Carriage Assy (See SN Breaks) | '`` | 2121120 | Shim, Fre Basket Slide (See SN Breaks) |
| | 4181980 | Ice Bkt Carriage Assy (See SN Breaks) | 101 | 3411970 | Shim, Ice Bucket Slide |
| 44 | 3421090 | IM Carriage Guide | | | · |
| | | | l | | |

642 COSMETIC VIEW



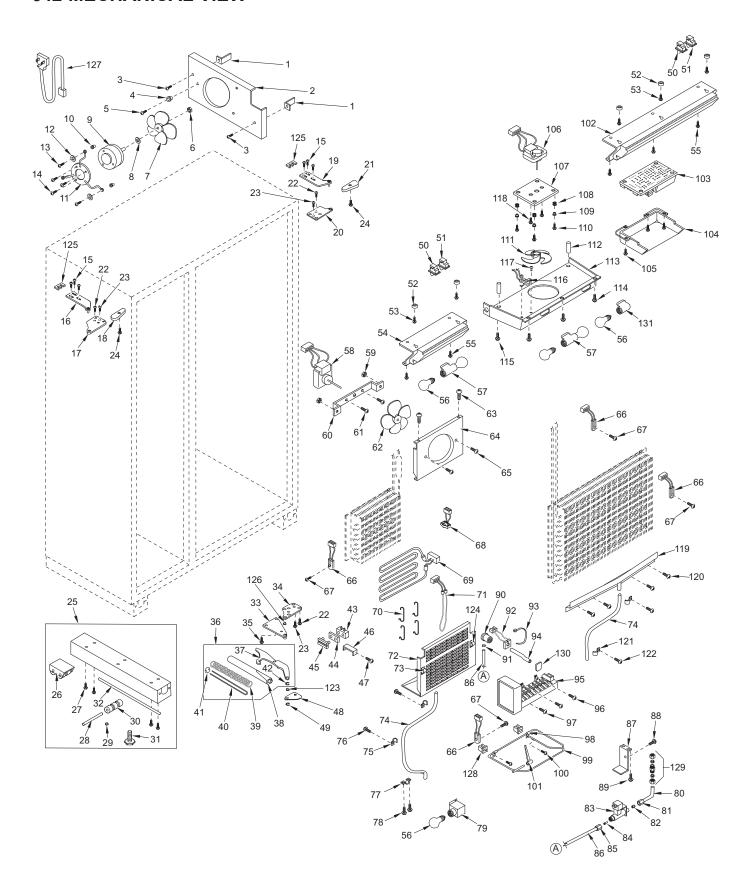
100 - Shim, Freezer Basket Slide (Not Shown) 101 - Shim, Ice Bucket Slide (Not Shown)



642 MECHANICAL PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | <u>Description</u> |
|------------|--------------------|---|--------------|--------------------|---|
| 1 | 3450290 | Angle Bracket | 67 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 2 | 0169510 6200010 | Condenser Fan Shroud Screw, #10-12 x 3/4" Pan HD | 68 69 | 3082060 4323820 | Defrost Terminator Defrost Heater Assy (See SN Breaks) |
| 4 5 | 3420670 6200450 | Screw Spacer Screw, #8 x 1" Type AR Flat | 70 | 4322140 1801100 | Defrost Heater Assý (See SN Breaks) Heater Clip |
| 6 | 6150410 | Nut, 1/4-20 | 71 | 3013540 | Drain Tube Heater |
| 7 8 | 3150320 3210340 | Fan Blade, Cond, 5 prop, 7" Neoprene Silencer, 7/8" | 72 | 4151740 4152040 | Fre Evap Cover Assy. (See SN Breaks) Fre Evap Cover Assy. (See SN Breaks) |
| 9 | 4200740 4200741 | Motor Pkg, Cond Fan (See SN Breaks) Motor Pkg, Cond Fan (See SN Breaks) | 73 74 | 6120160 1601400 | Cord Clip, Plastic, 5/16 x 1/2" Drain Tube, Wire - 1/2" x 72" |
| 10 | 6150330 | Well Nut, .75D x .804", #10-32 | 75 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 11 12 | 3150650 6240350 | Condenser Fan Bracket Fender Washer, .25x1.25x.06 | 76 77 | 6200010 6120210 | Screw, #10-12 x 3/4" Pan HD U-Clamp, 5/8" |
| 13 | 6201280 6200490 | Machine Screw, #10-32 x 1-1/4" | 78 79 | 6200010 3050170 | Screw, #10-12 x 3/4" Pan HD |
| 14 15 | 6110070 | Screw, #8-32 x 3/8" Slotted Hex T25 Bolt, 1/4-20x3/4 Spinlock Zinc | 19 | 3050200 | Light Socket, Sngl; Strt (See SN Breaks) Light Socket, Sngl; Strt (See SN Breaks) |
| 16 17 | 4151272 4151472 | Cabinet Hinge Assy, Upper LH Door Hinge Assy, Top LH | | 3050260 4161600 | Socket, Light Med Base (See SN Breaks) Light Assy, Lower Freezer |
| 18 | 3541018 | Top Cabinet Hinge Cover, LH | 80 | 2600297 | Tube, Copper L-Shaped |
| 19 20 | 4151271 4151471 | Cabinet Hinge Assy, Upper RH Door Hinge Assy, Top RH | 81 82 | 3520380 3520370 | Compression Nut Compression Sleeve |
| 21 22 | 3541017 6110540 | Top Cabinet Hinge Cover, RH Bolt, #10-24 x 1/2" Flat Socket HD | 83 84 | 4202790 3520050 | Water Valve Brass Insert, Solenoid |
| 23 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 85 | 3520030 | Icemaker Nylon Nut, 1/4" |
| 24 25 | 6200140 4110353 | Screw, #8-15 x 3/8" Truss HD Base Assy (w/rollers) | 86 87 | 2600617 0168160 | Plastic Water Line Solenoid Water Valve Bracket |
| 26 27 | 4110331 6200010 | Base Rear Roller Assy Screw, #10-12 x 3/4" Pan HD | 88 89 | 6200780 6201270 | Screw, #10-24 x 1/2" PH Hex Washer Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 28 | 3550560 | Straight Pin, Base Assy, .312" x 2.88" | 90 | 1607700 | Water Inlet Tube |
| 29 30 | 3450620 3421240 | Canoe Clip Cabinet Roller (Single) | 91 92 | 6220470 3013820 | Fill Tube Clamp Fill Tube Heater |
| 31 | 3570050 | Leveling Leg, #18-3/8 x 1" | 93 94 | 6120450 | Locking Cable Tie 9.7" BLK |
| 32 33 | 6110580 4151281 | Adjusting Screw Cabinet Hinge Assy, Lower RH | 95 | 3024110 4200521 | Fill Tube Extension Icemaker Assembly |
| 34 | 4151282 4151241 | Cabinet Hinge Assý, Lower LH Door Hinge, Bottom RH | 96 97 | 6200120 6200060 | Screw, #10-12 x 1/2" Truss HD Screw, #8-32 x 1/2" Pan HD |
| | 4151242 6110070 | Door Hinge, Bottom LH | 98 99 | 6120280 3421630 | Tube Clamp, Nylon, 3/16" Icemaker Control Arm |
| 35 36 | 4201111 | Bolt, 1/4-20x3/4 Spinlock Zinc Door Closer Assy, RH | 100 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 37 | 4201112 0183111 | Door Closer Assý, LH Door Closer Arm - RH | 101 102 | 3421070 4160902 | Connecting Rod Control Panel Assy (See SN Breaks) |
| | 0183112 | Door Closer Arm - LH | 103 | 4161932 | Control Panel Assy (See SN Breaks) |
| 38 39 | 3421300 3450530 | Door Closer Housing Door Closer Spring | | 4202800 4203520 | Control Board Pkg-Dual (See SN Breaks) Control Board Package (See SN Breaks) |
| 40 | 3450710 3421290 | Low Pull Door Closer Spring Door Closer Linkage | 104 | 3412790 3413940 | Control Board Enclsr (See SN Breaks) Control Board Enclsr (See SN Breaks) |
| 41 | 0165980 | Door Closer Spring Retainer | 105 | 6201270 4200170 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 42 43 | 3421260 3450570 | Door Closer Bearing Door Closer Cushion | 106 107 | 0211620 | Refrig. Fan Mtr Cmpnts (Blade not Incl.) Refrigerator Fan Brkt (See SN Breaks) |
| 44 45 | 0165970 3421310 | Door Closer Guide Support Door Closer Guide | 108 | 0212520 3220250 | Refriğerator Fan Brkt (See SN Breaks) Grommet, 3/16" x 7/16" x 9/32" |
| 46 | 0166360 | Door Stop Cushion Retainer Pop Rivet, 1/8" | 109 110 | 3520410 6110270 | Brass Insert, Fan Bolt, #10-32 x 1/4" RD HD |
| 47 48 | 6180010 DS90_ | Door Stop - 90 Degree | 111 | 3150640 | Fan blade, Ref/Fre Evap. |
| 49 | DS105 3450560 | Door Stop - 105 Degree E - Ring, 7/16" | 112 113 | 6220540 4161980 | Screw Grommet / Stand-off Refrig. Fan Shroud Assembly |
| 50 51 | 3060140 3060130 | SPST Light Switch SPST Fan/Icemaker Switch | 114 115 | 6201270 6201010 | Screw, #8-18 x 5/8" PH PN ŚS-Gnd Screw, #8-15 x 2" Pan Head |
| 52 | 6160240 | Nylon Spacer | 116 | 3082140 | Light Terminator |
| 53 54 | 6200720 4160911 | Sćrew, #8-18 x 1/2 PH Truss HD Freezer Front Pnl Assy (See SN Breaks) | 117 118 | 6180010 6110270 | Pop Rivet, 1/8" Bolt, #10-32 x 1/4" RD HD |
| | 4161951 | Freezer Front Pnl Assy (See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd | 119 | 4190240 | Drain Trough Assembly (See SN Breaks) Drain Trough Assembly (See SN Breaks) |
| 55 56 | 6201270 3030030 | Light Buid, 40 vvatt | 120 | 0212600 6201270 | Screw. #8-18 x 5/8" PH PN SS-Gnd |
| 57 | 3050180 3050250 | Light Socket, Double (See SN breaks) Sckt, Light Md Base Dbl (See SN breaks) | 121 122 | 6120050 6200120 | Tube Clamp, Plastic, 5/8" Screw, #10-12 x 1/2" Truss HD |
| 5 0 | 4161610 | Light Assy, Upper Freezer (Incl. Socket) | 123 | 3450550 | E-Ring / Klipring , 5/16" |
| 58 59 | 4200160 6150030 | Freezer Fan Motor (Blade not Incl.) Nut, #10-24 Hex SS | 124 125 | 6120330 0168680 | Wire Člip Shim - Hinge |
| 60 61 | 0232770 6110270 | Fan Bracket, Freezer Bolt, #10-32 x 1/4" RD HD | 126 127 | 3421270 4321820 | Hinge Bearing, 3/8" x 5/8" Power Cord |
| 62 | 3150060 | Fan Blade; Freezer; 5 Prop; 5-1/2" | 128 | 6220220 | Screw Grommet, 1/32" X 3/8" SQ. |
| 63 64 | 6201270 0234120 | Screw, #8-18 x 5/8" PH PN SS-Gnd Fre Evap Fan Shroud (See SN Breaks) | 129 130 | 3520250 3140360 | Water Inlet Fitting Assy Fill Cup Plug |
| 65 | 0234880 6110020 | Fre Evap Fan Shroud (See SN Breaks) Bolt, #10-24 x 3/8" Truss HD | 131 | 3050190 3050230 | Light Socket, Single (See SN Breaks) Skt, Light M Base Sngl (See SN Breaks) |
| 66 | 3014350 | Thermistor | | 00000 | ,g |

642 MECHANICAL VIEW

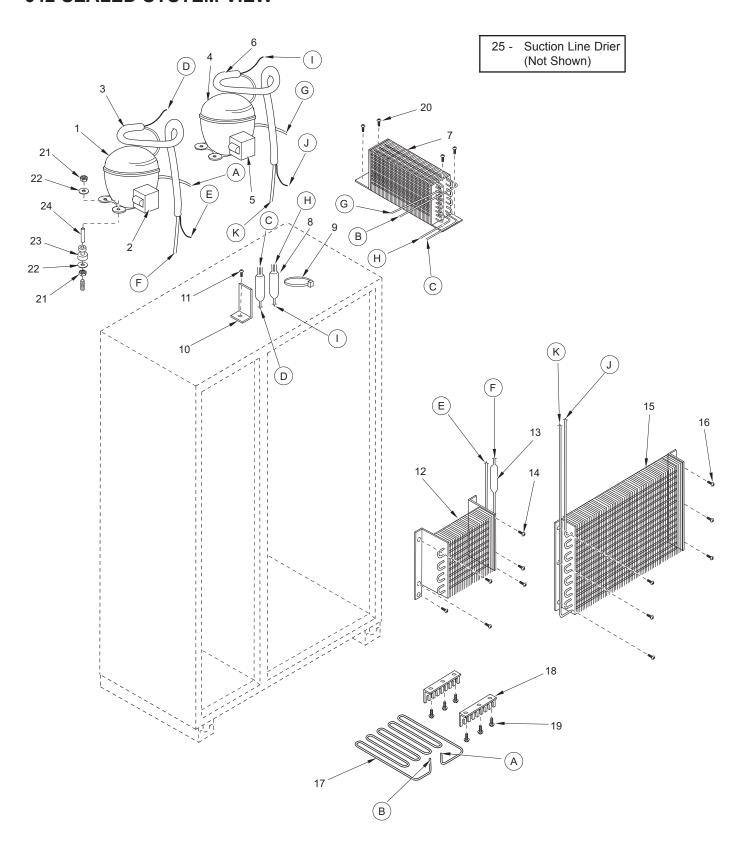




642 SEALED SYSTEM PARTS LIST

| Ref# | Part # | Description |
|------|---------|---|
| 1 | 4202250 | Compressor, Freezer (DA73) (See SN Breaks) |
| | 4202280 | Compressor, Freezer (EMI60HER) (See SN Breaks) |
| 2 | 3111041 | Relay, (PTH490D-AS100) (Used with DA73 Compressor) |
| | 3111460 | Relay, (1351408) (Used with EMI60HER Compressor) |
| | 3111430 | Overload, (4TM419MFB) (Used with DA73 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor) |
| | 3111070 | Running Capacitor, (12Mf) (Used with DA73 Compressor) |
| 3 | 4251400 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER |
| 5 | 3111370 | Relay, (1351400 - For EMI30HER Comp) |
| | 3111410 | Overload, (4TM734LFB - For EMI30HER Comp) |
| 6 | 4251240 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3130430 | Evaporator Coil, Fre (See SN Breaks) |
| | 3130590 | Evaporator Coil, Fre (See SN Breaks) |
| 13 | 3011130 | Freezer Accumulator |
| 14 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 15 | 3130420 | Evaporator, Refrig. |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 25 | 3014100 | Suction Line Drier (Service Only) |

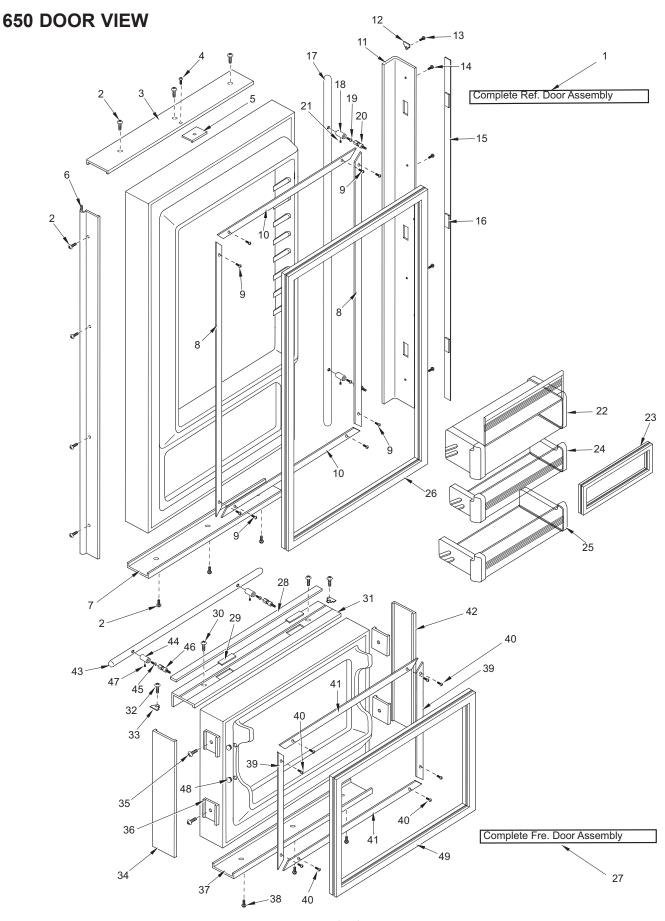
642 SEALED SYSTEM VIEW





650 DOOR PARTS LIST

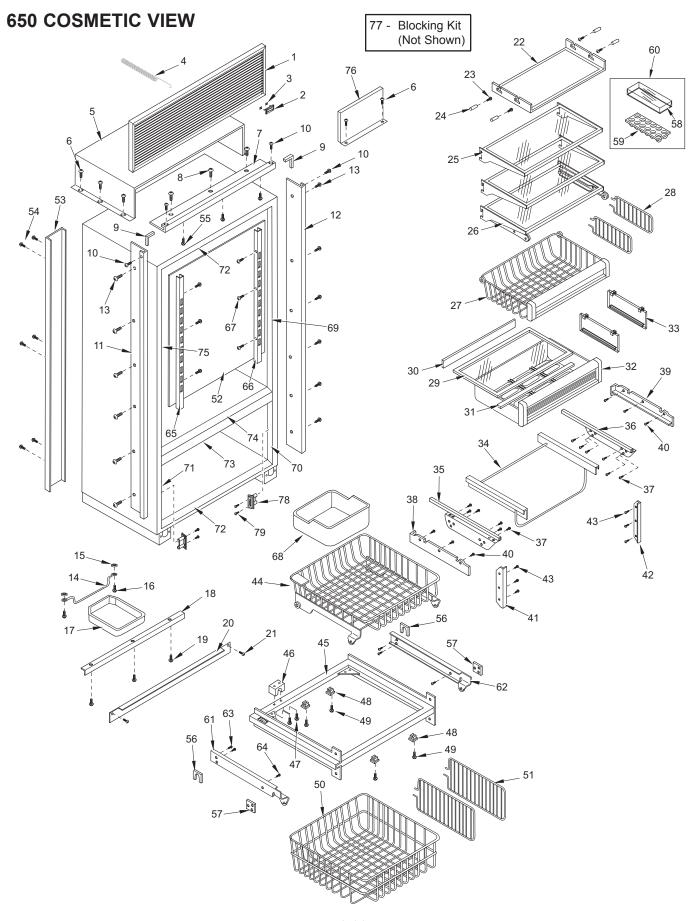
| " | - | | 7 (" | | 5 |
|------|----------|--|-------|---------|--|
| Ref# | Part # | <u>Description</u> | Ref# | Part # | <u>Description</u> |
| 1 | 4132823 | Refrig. Door Assy, Frame/Overlay - RH | 25 | 4330530 | Gallon Door Shelf Assy (Sales Acc.) |
| | 4132824 | Refrig. Door Assy Frame/Overlay - LH | 26 | 3212130 | Door Gasket, Refrigerator |
| | 4133213 | Refrig. Door Assy, SS - RH | 27 | 4132015 | Freezer Drawer Assy, Frame/Overlay |
| | 4133214 | Refrig. Door Assy, SS - LH | | | (See SN Breaks) |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | | 4132795 | Freezer Drawer Assy, Frame/Overlay |
| 3 | 2230606 | Refrig. Door Trim, Top - RH | | | (See SN Breaks) |
| | 2230608 | Refrig. Door Trim, Top - LH | | 4132165 | Fre Drawr Assy (SS) (See SN Breaks) |
| 4 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | | 4133215 | Fre Drawr Assy (SS) (See SN Breaks) |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 28 | 4131880 | Handle/Trim Molding Assy, Freezer |
| 6 | 3511140 | Door Trim, Hinge Side - (SS Model) | 29 | 3451000 | Magnet, Trim Strip |
| | 3511141 | Door Trim, Hinge Side - Mitered Corner | 30 | 6201300 | Tapping Screw, #8 x 1/2 |
| 7 | 2230607 | Refrig. Door Trim, Bottom - RH | 31 | 4132250 | Drawer Handle Assy, Freezer (Framed) |
| | 2230609 | Refrig. Door Trim, Bottom - LH | | 4132350 | Handle-Side Door Trim, Freezer (Overlay) |
| 8 | 3420240 | Gasket Retainer, Side Ref, 47.438 | 32 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 |
| 9 | 6200410 | Screw, #8 x 1/2 Slot Head Hex | 33 | 3413340 | Handle/Trim End Cap |
| 10 | 3420220 | Gasket Retainer, 33.312" | 34 | 2230701 | Fre Drawer Trim, Rt Side |
| 11 | 4132240 | Door Handle Assy, Refrig. (Framed) | 35 | 6180040 | Pop Rivet, 3/16 x 1/8 Grip |
| | 4132340 | Handle-Side Door Trim, Ref. (Overlay) | 36 | 3450460 | Door Trim Clip |
| 12 | 3413340 | Handle/Trim End Cap | 37 | 2230605 | Freezer Drawer Trim, Bottom |
| 13 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 | 38 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 14 | 6201300 | Tapping Screw, #8 x 1/2 | 39 | 3420150 | Gasket Retainer, 17.312 |
| 15 | 4131870 | Handle/Trim Molding Assy, Refrig. | 40 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 16 | 3451000 | Magnet, Trim Strip - 3" | 41 | 3420220 | Gasket Retainer, 33.312" |
| 17 | 4132200 | Handle Assy,Ref 44.125 Rnd | 42 | 2230702 | Fre Drawer Trim, Lt Side |
| | | (Incl. Stand-offs) (See SN Breaks) | 43 | 4132210 | Handle Assy, Fre Drwr Rnd |
| | 4133500 | Hndl Assy,Ref 44.25 Blnt (Incl stndoffs) | | | (Incl. Stand-offs) (See SN Breaks) |
| | | (See SN Breaks) | | 4133470 | Hdl Assy, Fre Drwr Blunt (Incl Stndoffs) |
| | 4133700 | Handle Assy, SS Obr Standoff | | | (See SN Breaks) |
| | | (See SN Breaks) | | 4133720 | Handle Assy, Obr Standoff-Fre |
| 18 | 3511320 | Handle Stand-Off 1"D (See SN Breaks) | | | (See SN Breaks) |
| | 3152150 | Standoff, SS Oval (See SN Breaks) | 44 | 3511320 | Hndle Stand-Off 1" D (See SN Breaks) |
| 19 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD | | 3512160 | Stndoff,SS Oval, Drwr(See SN Breaks) |
| 20 | 3511520 | Handle Mounting Stud | 45 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 21 | 6110730 | Set Screw #10-32 x 1/4 SS Cone | 46 | 3511520 | Handle Mounting Stud |
| 22 | 4330490 | Dairy Compartment Assy | 47 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| 23 | 3211820 | Dairy Compartment Gasket | 48 | 3550230 | White Plastic Plug, 3/4 |
| 24 | 4330480 | Refrig. Door Shelf Assy | 49 | 3211110 | Door Gasket, Fre. (See SN Breaks) |
| | | | | 3212120 | Door Gasket, Fre. (See SN Breaks) |





650 COSMETIC PARTS LIST

| | | 030 COSIVIL 11 | | | |
|------|-----------|--|--------------|---------|---|
| Ref# | Part # | <u>Description</u> | <u>Ref #</u> | Part # | <u>Description</u> |
| 1 | 6LG3611 | Louvered Grille Assy, 36" x 11" | 38 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| | 6PG3611 | Panel Grille Assy, 36" x 11" | | 3421722 | Top Crisper glass Support, Wide-LH |
| | 6SG3611 | SS Grille 36" x 11" (See SN Breaks) | 39 | 3421712 | Top Crisper Glass Support, Narrow-LH |
| | 6SG3611/S | SS Grille,36X11-CLSC (See SN Breaks) | | 3421721 | Top Crisper Glass Support, Wide-RH |
| 2 | 3580230 | Nameplate w/ Pegs | 40 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| | 3580210 | Name Plate, Stick-on | 41 | 3421741 | Crisper Filler Strip, Narrow (if RH) |
| 3 | 6150140 | Spring Grip Nut, 1/8" | | 3421742 | Crisper Filler Strip, Wide (if LH) |
| 4 | 3450900 | Grille spring | 42 | 3421741 | Crisper Filler Strip, Narrow (if LH) |
| 5 | 4280940 | Unit Shroud Assembly | | 3421742 | Crisper Filler Strip, Wide (if RH) |
| 6 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 43 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 7 | 2229621 | Main Frame, Top - LH (See SN Breaks) | 44 | 4181040 | Upper Fre Basket Assy (See SN Breaks) |
| | 2229635 | Main Frame, Top - LH (See SN Breaks) | | 4181810 | Upper Fre Basket Assy (See SN Breaks) |
| | 2229622 | Main Frame, Top - RH (See SN Breaks) | 45 | 4181050 | Drawer Slide Assy, Fre (See SN Breaks) |
| | 2229634 | Main Frame, Top - RH (See SN Breaks) | | 4181790 | Drawer Slide Assy, Fre (See SN Breaks) |
| 8 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 46 | 3420950 | Upper Freezer Basket Restraint |
| 9 | 2210701 | Main Frame Angle | 47 | 6200340 | Screw, #6-20 x 1/2" Pan Head |
| 10 | 6200070 | Screw, #4-24 x 3/8" Flat HD | 48 | 6220110 | Screw Grommet, 1/2" x 9/16" |
| 11 | 2229608 | Main Frame, Left - RH (See SN Breaks) | 49 | 6200130 | Screw, #8-18 x 3/4" Truss HD |
| | 2229632 | Main Frame, Left - RH (See SN Breaks) | 50 | 3411180 | Lower Freezer Basket (See SN Breaks) |
| | 2229613 | Main Frame, Left - LH (See SN Breaks) | | 3413690 | Lower Freezer Basket (See SN Breaks) |
| | 2229633 | Main Frame, Left - LH (See SN Breaks) | 51 | 3411310 | Lower Fre Bskt Divider (See SN Breaks) |
| 12 | 2229607 | Main Frame, Right - LH (See SN Breaks) | | 3413700 | Lower Fre Bskt Divider (See SN Breaks) |
| | 2229631 | Main Frame, Right - LH (See SN Breaks) | 52 | 0201130 | Refig Evap Cover |
| | 2229610 | Main Frame, Right - RH (See SN Breaks) | 53 | 0168120 | Back Duct (See SN Breaks) |
| | 2229630 | Main Frame, Right - RH (See SN Breaks) | | 0169600 | Back Duct (See SN Breaks) |
| 13 | 6200210 | Screw, #8-32 x 1/2" Flat Head | 54 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP |
| 14 | 3420760 | Drain Pan Holder | 55 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD |
| 15 | 3420670 | Screw Spacer | 56 | 0232310 | Drawer Slide Shim, Rear |
| 16 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP | 57 | 0232300 | Drawer Slide Shim, Front |
| 17 | 0164940 | Drain Pan | 58 | 3412280 | Egg Tray Cover |
| 18 | 0169590 | Kickplate Support | 59 | 3412270 | Egg Tray |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 60 | 4131810 | Egg Tray with Cover |
| 20 | 0169520 | Kickplate, Solid | 61 | 4180681 | Cab Slide Assy, Fre; RT(See SN Breaks) |
| | 0167820 | Kickplate, Stainless Steel | | 4181801 | Cab Slide Assy, Fre; RT(See SN Breaks) |
| 21 | 6200050 | Screw, #10-12 x 1/2" Pan HD | 62 | 4180682 | Cab Slide Assy, Fre; LT(See SN Breaks) |
| 22 | 4161870 | Refrig. Light Diffuser Assembly | | 4181802 | Cab Slide Assy, Fre; LT(See SN Breaks) |
| 23 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 63 | 6110330 | Screw, #10-32 x 1/4" Chrome Plate |
| 24 | 3520420 | Insert / Diffuser Stand-off | 64 | 6200590 | Screw, #12 x 1" Type A Zinc Flat HD |
| 25 | 3601901 | Glass Shelf, Spill Proof | 65 | 3601821 | Refrig. shelf ladder, Right |
| 26 | 4181620 | Refrig. Roll-out Shelf Assy | 66 | 3601822 | Refrig. shelf ladder, Left |
| 27 | 4181520 | Refrig. Roll-out Basket Assy | 67 | 6200710 | Screw, #8-18 x 3/8" Fillister HD |
| 28 | 3411160 | Ref Roll-Out Bskt Divider | 68 | 3411340 | Ice Bucket |
| 29 | 4151750 | Crisper Glass Assembly (Incl. Seals) | 69 | 2811212 | Breaker Strip, Refr, RS (See SN Breaks) |
| 30 | 3211760 | Crisper Glass Seal, Rear | 70 | 2811213 | Breaker Strip, Fre, RS (See SN Breaks) |
| 31 | 3211730 | Crisper Glass Seal, Front | 71 | 2811215 | Breaker Strip, Fre, LS (See SN Breaks) |
| 32 | 4181440 | High Humidity Drawer Assembly | 72 | 2811206 | Brkr Strip, Ref Top/Fre Bottom |
| 33 | 3413100 | Drawer Divider | | | (See SN Breaks) |
| 34 | 3421770 | Humidity Drawer Slide-Frame | 73 | 2811501 | Brkr Strip, Fre Mullion (See SN Breaks) |
| 35 | 4181412 | Top Crisper Slide Assembly, Wide-LH | 74 | 2811401 | Brkr Strip, Ref Mullion (See SN Breaks) |
| | 4181421 | Top Crisper Slide Assembly, Narrow-RH | 75 | 2811216 | Breaker Strip, Ref, LS (See SN Breaks) |
| 36 | 4181411 | Top Crisper Slide Assembly, Wide-RH | 76 | 4280950 | Compressor Shroud Assembly |
| | 4181422 | Top Crisper Slide Assembly, Narrow-LH | 77 | 4201320 | Blocking Kit; 36" (Not Shown) |
| 37 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | | |
| | | | | | |

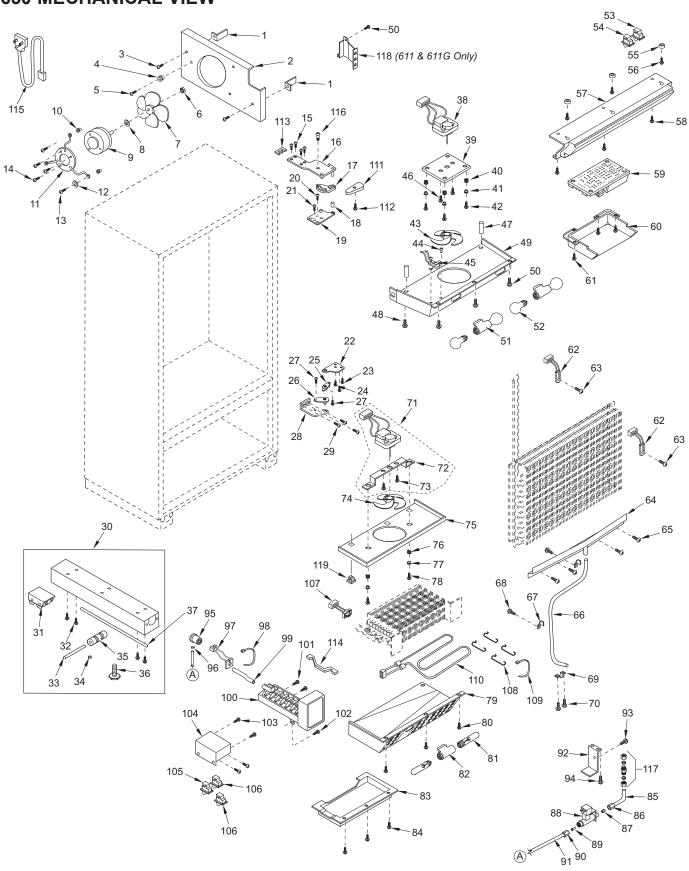




650 MECHANICAL PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | Description |
|----------|--------------------|--|------------|--------------------|---|
| 1 | 3450290 | Angle Bracket | 61 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 2 | 0261200 | Condenser Fan Shroud | 62 | 3014350 | Thermistor |
| 3 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 63 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 4 | 3420670 | Screw Spacer | 64 | 4190150 | Drain Trough Assy (See SN Breaks) |
| 5 6 | 6200450 6150410 | Screw, #8 x 1" Type AR Flat Nut, 1/4-20 | 65 | 0260540 6201270 | Drain Trough Assy (See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 7 | 3150320 | Fan Blade, Cond, 5 prop, 7" | 66 | 1601400 | Drain Tube, Wire - 1/2" x 72" |
| 8 | 3210340 | Neoprene Silencer, 7/8" | 67 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 9 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 68 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 10 | 6150330 | Well Nut, .75D x .804", #10-32 | 69 | 6120210 | U-Clamp, 5/8" |
| 11 12 | 3150650 6240350 | Condenser Fan Bracket Fender Washer, .25x1.25x.06 | 70 71 | 6200010 4200160 | Screw, #10-12 x 3/4" Pan HD Freezer Fan Motor Pkg. (Blade not Incl.) |
| 13 | 6201280 | Machine Screw, #10-32 x 1-1/4" | 72 | 0232280 | Fan Bracket, Fre |
| 14 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 73 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 15 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 74 | 3150640 | Fan Blade, Evaporator |
| 16 | 4151831 | Upper Cabinet Hinge - RH | 75 | 0233570 | Fan Shroud, Fre Evap (See SN Breaks) |
| 17 | 4151832 3421800 | Upper Cabinet Hinge - LH Door Stop Cam | 76 | 4281510 3220250 | Shroud Assy, Fre Evap (See SN Breaks) Grommet, 3/16" x 7/16" x 9/32" |
| 18 | 3421790 | Bearing, Top Door Hinge | 77 | 3520120 | Brass Insert, Fan Bracket |
| 19 | 4151841 | Hinge, Door Top - RH | 78 | 6200670 | Screw, #6-18 x 3/4" Teks |
| | 4151842 | Hinge, Door Top - LH | 79 | 0232840 | Evaporator Cover, Fre (See SN Breaks) |
| 20 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | | 0234290 | Evaporator Cover, Fre (See SN Breaks) |
| 21 22 | 6200390 0182381 | Screw, #6 x 3/8" T25 Flat Head PH Door Hinge, Bottom; RH | | 0232860 0234300 | Fre Evap. Cvr Lft Side (See SN Breaks) Fre Evap. Cvr Lft Side (See SN Breaks) |
| 22 | 0182382 | Door Hinge, Bottom; LH | 80 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 23 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 81 | 3030040 | Light Bulb, Long/Narrow; 40 watt |
| 24 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 82 | 3050020 | Light Sckt, 3/4 Double (See SN Breaks) |
| 25 | 3420690 | Bottom Door Hinge Cam | | 3050220 | Sckt, Light Base Sngl (See SN Breaks) |
| 26 | 3420681 3420682 | Bottom Cabinet Hinge Cam, RH Bottom Cabinet Hinge Cam, LH | 83 | 4151860 0234310 | Fre Air Duct Assy (See SN Breaks) Fre Air Duct Assy (See SN Breaks) |
| 27 | 6110270 | Bolt, #10-32 x 1/4" RD HD | 84 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 28 | 4151641 | Cabinet Hinge, Bot-RH (See SN Breaks) | 85 | 2600297 | Tube, Copper L-Shaped |
| | 4152011 | Cabinet Hinge, Bot-RH (See SN Breaks) | 86 | 3520380 | Compression Nut |
| | 4151642 | Cabinet Hinge, Bot-LH (See SN Breaks) | 87 | 3520370 | Compression Sleeve |
| 29 | 4152012 6110010 | Cabinet Hinge, Bot-LH (See SN Breaks) Bolt, #10-24 x 1/2" Flat Head UC | 88 89 | 4202790 3520050 | Water Valve Brass Insert, Solenoid |
| 30 | 4110353 | Base Assy (w/rollers) | 90 | 3520030 | Icemaker Nylon Nut, 1/4" |
| 31 | 4110331 | Base Rear Roller Assy | 91 | 2600617 | Plastic Water Line |
| 32 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 92 | 0168160 | Solenoid Water Valve Bracket |
| 33 | 3550560 3450620 | Straight Pin, Base Assy, .312" x 2.88" | 93 | 6200780 6201270 | Screw, #10-24 x 1/2" PH Hex Washer |
| 34 35 | 3421240 | Canoe Clip Cabinet Roller (Single) | 95 | 1607700 | Screw, #8-18 x 5/8" PH PN SS-Gnd Water Inlet Tube |
| 36 | 3570050 | Leveling Leg, #18-3/8 x 1" | 96 | 6220470 | Fill Tube Clamp |
| 37 | 6110580 | Adjusting Screw | 97 | 3013820 | Fill Tube Heater |
| 38 | 4200170 | Refrig. Fan Motor Pkg. (Blade not Incl.) | 98 | 6120450 | Locking Cable Tie 9.7" BLK |
| 39 40 | 0211620 3220250 | Refrigerator Fan Bracket Grommet, 3/16" x 7/16" x 9/32" | 99 | 2605410 6220470 | Water Inlet Tube Extension Fill Tube Clamp |
| 41 | 3520410 | Brass Insert, Fan | 100 | 4200522 | Icemaker Assembly |
| 42 | 6110270 | Bolt, #10-32 x 1/4" RD HD | 101 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 43 | 3150640 | Fan blade, Ref/Fre Evap. | 102 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 44 45 | 6180010 | Pop Rivet, 1/8" | 103 | 6201270 0233820 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 45 46 | 3082140 6110270 | Light Terminator Bolt, #10-32 x 1/4" RD HD | 104 105 | 3060140 | Switch Housing, Freezer SPST Light Switch |
| 47 | 6220540 | Screw Grommet / Stand-off | 106 | 3060130 | SPST Fan/Icemaker Switch |
| 48 | 6201010 | Screw, #8-15 x 2" Pan Head | 107 | 3082060 | Defrost Terminator |
| 49 | 4161330 | Refrig. Fan Shroud Assy | 108 | 1801100 | Heater Clip |
| 50 51 | 6201270 3050180 | Screw, #8-18 x 5/8" PH PN SS-Gnd Light Socket, Double (See SN Breaks) | 109 110 | 6120340 4321760 | Aluminum Strap |
| 31 | 3050250 | Sckt, Light M Base Dbl (See SN Breaks) | 110 | 4324640 | Defrost Heater Assy (See SN Breaks) Defrost Heater Assy (See SN Breaks) |
| 52 | 3030030 | Light Bulb, 40 Watt | 111 | 3541017 | Top Cabinet Hinge Cover, RH |
| 53 | 3060130 | SPST Fan/Icemaker Switch | | 3541018 | Top Cabinet Hinge Cover, LH |
| 54 | 3060140 | SPST Light Switch | 112 | 6200140 | Screw, #8-15 x 3/8" Truss HD |
| 55 56 | 6160240 6200720 | Nylon Spacer Screw, #8-18 x 1/2 PH Truss HD | 113 114 | 0168680 3140400 | Shim - Hinge Icemaker Rudder Arm |
| 56 57 | 4160782 | Control Panel Assy (See SN Breaks) | 114 | 4321820 | Power Cord |
| 0. | 4161342 | Control Panel Assy (See SN Breaks) | 116 | 3550770 | 90° Stop Pin |
| 58 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 117 | 3520250 | Water Inlet Fitting Assy |
| 59 | 4202800 | Control Board Pkg-Dual (See SN Breaks) | 118 | NA | Const Creek 1/20V2/0 CO/Con CN Des-1-1 |
| 60 | 4203520 3412790 | Control Board Pkg (See SN Breaks) Control Board Encl. (See SN Breaks) | 119 | 6220220 | Scrw Grmt,1/32X3/8 SQ(See SN Breaks) |
| 00 | 3413940 | Control Board Encl. (See SN Breaks) | | | |
| | | (| I | | |

650 MECHANICAL VIEW

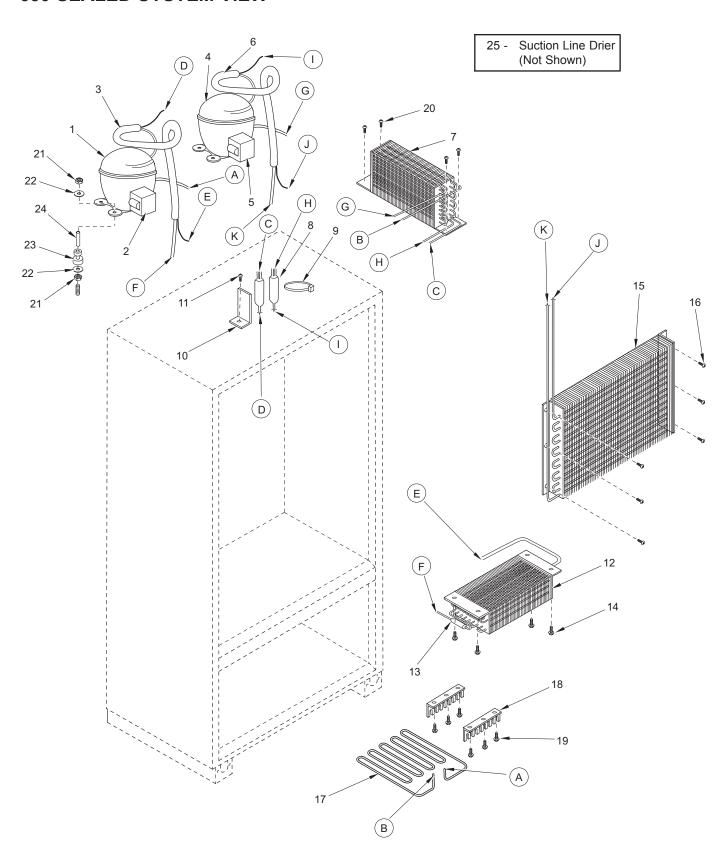




650 SEALED SYSTEM PARTS LIST

| | | , 122 0 10 12 11 17 11 10 210 1 |
|------|---------|--|
| Ref# | Part # | <u>Description</u> |
| 1 | 4202280 | Compressor, (EMI60HER) |
| 2 | 3111041 | Relay, (PTH490) (Used with DA73 Compressor) |
| | 3111460 | Relay, (1351408) (Used with EMI60HER Compressor)) |
| | 3111430 | Overload (4TM419MFB) (Used with DA73 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor)) |
| | 3111070 | Capacitor (12Mf) (Used with DA73 Compressor) |
| 3 | 4251270 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 5 | 3111370 | Relay, (1351400 - for EMI30HER) |
| | 3111410 | Overload, (4TM734LFB - for EMI30HER) |
| 6 | 4251290 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3130300 | Evaporator Coil, Fre (See SN Breaks) |
| | 3130580 | Evaporator Coil, Fre (See SN Breaks) |
| 13 | 3011130 | Freezer Accumulator |
| 14 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 15 | 3130270 | Evaporator, Refrig. |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| 0.4 | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| 0.5 | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 25 | 3014100 | Suction Line Drier (Service Only - Not Shown) |

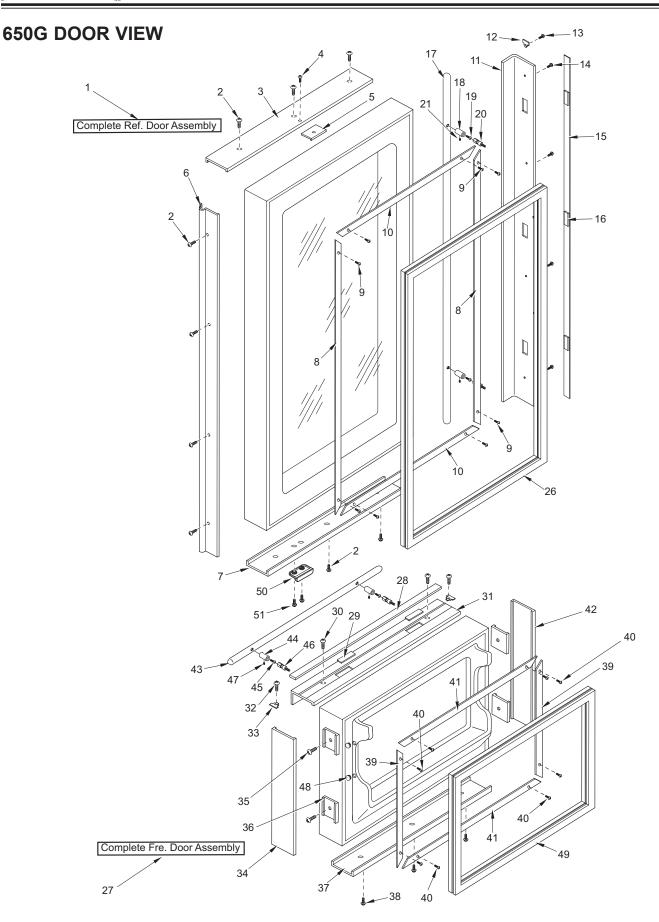
650 SEALED SYSTEM VIEW





650G DOOR PARTS LIST

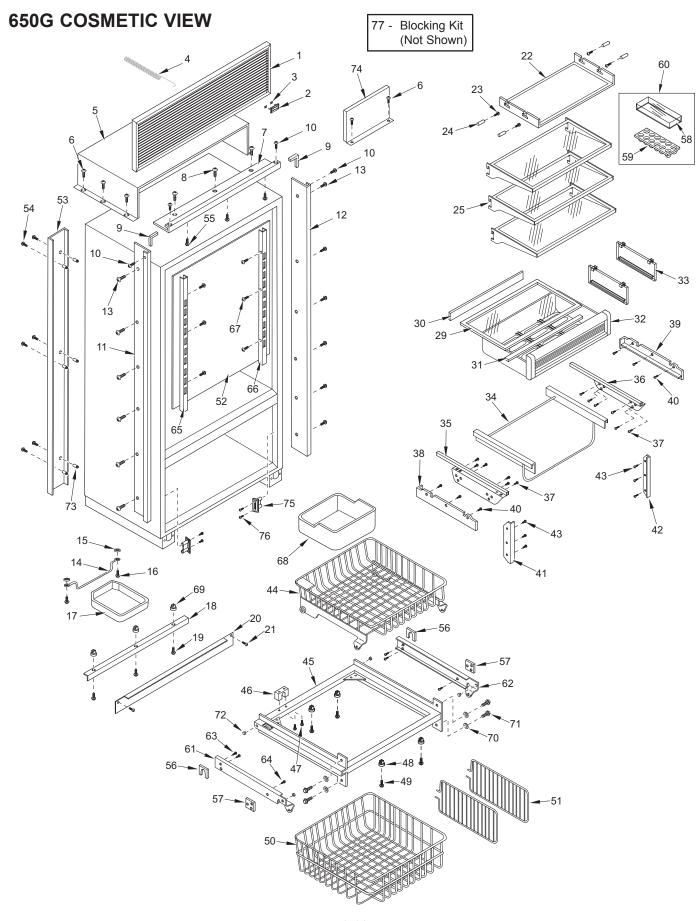
| Ref# | Part # | <u>Description</u> | Ref# | Part # | Description |
|-------|-----------|---|------|---------|--|
| 1 | 4134685 | Door Assy,Ref 650G Frmd/Overlay-RH | 22 | NA | |
| | 4134686 | Door Assy,Ref 650G Frmd/Overlay-LH | 23 | NA | |
| | 4134687 | Door Assy,Ref 650HAG Frmd/Olay-RH | 24 | NA | |
| | 4134688 | Door Assy,Ref 650HAG Frmd/Olay-LH | 25 | NA | |
| | 4134695 | Door Assy, Ref 650G SS-RH | 26 | 3212160 | Door Gasket, Refrigerator |
| | 4134696 | Door Assy, Ref 650G SS-LH | 27 | 4132795 | Freezer Drawer Assy, Frame/Overlay |
| | 4134697 | Door Assy, Ref 650HAG SS-RH | | 4133215 | Freezer Drawer Assy (SS) |
| | 4134698 | Door Assy, Ref 650HAG SS-LH | 28 | 4131880 | Handle/Trim Molding Assy, Freezer |
| NOTE: | Door Assy | 's incl. Wire Harness / Top Hng Assy. | 29 | 3451000 | Magnet, Trim Strip |
| 2 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | 30 | 6201300 | Tapping Screw, #8 x 1/2 |
| 3 | 2230606 | Refrig. Door Trim, Top - RH | 31 | 4132250 | Drawer Handle Assy, Freezer (Framed) |
| | 2230608 | Refrig. Door Trim, Top - LH | | 4132350 | Handle-Side Door Trim, Freezer (Overlay) |
| 4 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd | 32 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 33 | 3413340 | Handle/Trim End Cap |
| 6 | 3511140 | Door Trim, Hinge Side - (SS Model) | 34 | 2230701 | Fre Drawer Trim, Rt Side |
| | 3511141 | Door Trim, Hinge Side - Mitered Corner | 35 | 6180040 | Pop Rivet, 3/16 x 1/8 Grip |
| 7 | 2230607 | Refrig. Door Trim, Bottom - RH | 36 | 3450460 | Clip, Door Trim |
| | 2230609 | Refrig. Door Trim, Bottom - LH | 37 | 2230614 | Freezer Drawer Trim, Bottom |
| 8 | 3420240 | Gasket Retainer, Side Ref, 47.438 | 38 | 6200720 | Screw, #8-18 x 1/2 Ph Truss Hd |
| 9 | 6200410 | Screw, #8 x 1/2 Slot Head Hex | 39 | 3420150 | Gasket Retainer, 17.312 |
| 10 | 3420220 | Gasket Retainer, 33.312" | 40 | 6200410 | Screw, #8 x 1/2 Slot Head Hex |
| 11 | 4132240 | Door Handle Assy, Refrig. (Framed) | 41 | 3420220 | Gasket Retainer, 33.312" |
| | 4132340 | Handle-side Door Trim, Rfrig. (Overlay) | 42 | 2230702 | Fre Drawer Trim, Lt Side |
| 12 | 3413340 | Handle/Trim End Cap | 43 | 3511990 | Handle, Door SS 1 X 30.312 |
| 13 | 6180160 | Rivet, Open End Blind, 1/8 x 3/16 | | 4133720 | Handle Assy, Obr Standoff - Fre |
| 14 | 6201300 | Tapping Screw, #8 x 1/2 | 44 | 3512160 | Standoff, SS Oval |
| 15 | 4131870 | Handle/Trim Molding Assy, Refrig. | 45 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD |
| 16 | 3451000 | Magnet, Trim Strip | 46 | 3511520 | Handle Mounting Stud |
| 17 | 3511980 | Handle, Door SS 1 X 44.250 | 47 | 6110730 | Set Screw #10-32 x 1/4 SS Cone |
| | 4133700 | Handle Assy, SS Obr Standoff | 48 | 3550230 | White Plastic Plug, 3/4 |
| 18 | 3512150 | Standoff, SS Oval | 49 | 3212120 | Door Gasket, Fre. |
| 19 | 6110540 | Bolt, #10-24 x 1/2 Flat Socket HD | 50 | 3430100 | Closer, Door-Door Side |
| 20 | 3511520 | Handle Mounting Stud | 51 | 6110060 | Bolt, #10-32 x 5/8", Truss Head |
| 21 | 6110730 | Set Screw #10-32 x 1/4 SS Cone | | | |





650G COSMETIC PARTS LIST

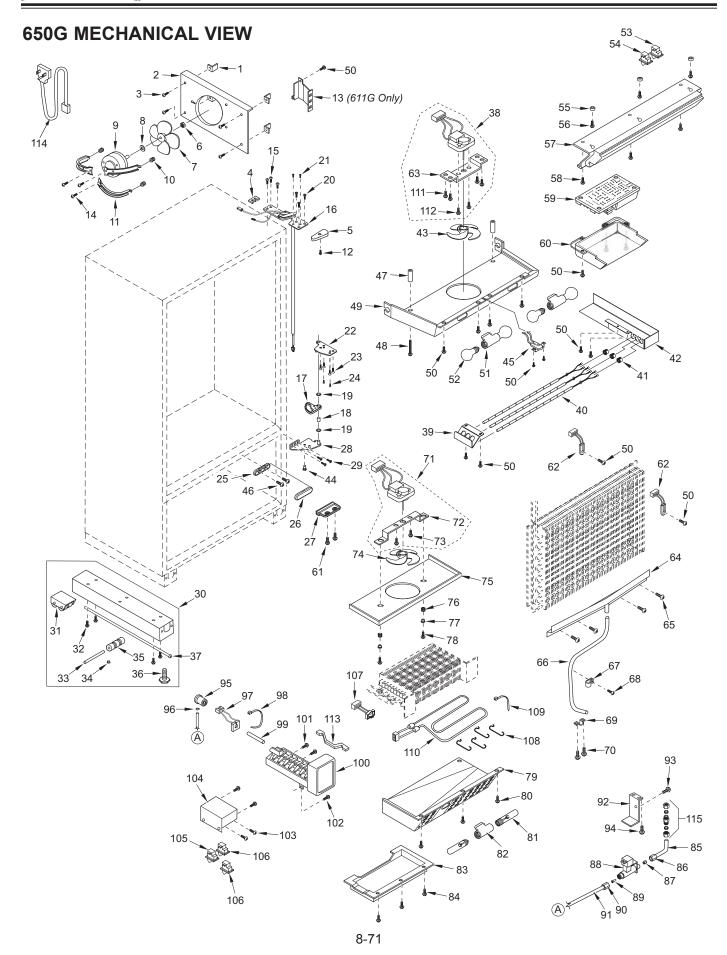
| Ref# | Part # | <u>Description</u> | Ref # | Part # | <u>Description</u> |
|------|-----------|---------------------------------------|-------|---------|--------------------------------------|
| 1 | 6LG3611 | Louvered Grille Assy, 36" x 11" | 38 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| | 6PG3611 | Panel Grille Assy, 36" x 11" | | 3421722 | Top Crisper glass Support, Wide-LH |
| | 6SG3611 | SS Grille 36" x 11" (See SN Breaks) | 39 | 3421712 | Top Crisper Glass Support, Narrow-LH |
| | 6SG3611/S | SS Grille,36X11-CLSC (See SN Breaks) | | 3421721 | Top Crisper Glass Support, Wide-RH |
| 2 | 3580230 | Nameplate w/ Pegs | 40 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 3 | 6150140 | Spring Grip Nut, 1/8" | 41 | 3421741 | Crisper Filler Strip, Narrow (if RH) |
| 4 | 3450900 | Spring, Grille | | 3421742 | Crisper Filler Strip, Wide (if LH) |
| 5 | 4280940 | Unit Shroud Assembly | 42 | 3421741 | Crisper Filler Strip, Narrow (if LH) |
| 6 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | 3421742 | Crisper Filler Strip, Wide (if RH) |
| 7 | 2234009 | Frame, Main Top 36 - RH | 43 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 2234010 | Frame, Main Top 36 - LH | 44 | 4181950 | Upper Fre Basket Assy |
| 8 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 45 | 4181790 | Drawer Slide Assy, Fre |
| 9 | 2210701 | Main Frame Angle | 46 | 3420950 | Upper Freezer Basket Restraint |
| 10 | 6200070 | Screw, #4-24 x 3/8" Flat HD | 47 | 6200340 | Screw, #6-20 x 1/2" Pan Head |
| 11 | 2234013 | Frame, Main Side Left - RH | 48 | 6220110 | Screw Grommet, 1/2" x 9/16" |
| | 2234014 | Frame, Main Side Left - LH | 49 | 6200130 | Screw, #8-18 x 3/4" Truss HD |
| 12 | 2234011 | Frame, Main Side Right - RH | 50 | 3413690 | Lower Freezer Basket |
| | 2234012 | Frame, Main Side Right - LH | 51 | 3413700 | Lower Fre Bskt Divider |
| 13 | 6201550 | Screw, #8-18 X 1/2 Low Profile | 52 | 0201130 | Refig Evap Cover |
| 14 | 3420760 | Drain Pan Holder | 53 | 0169600 | Back Duct |
| 15 | 3420670 | Screw Spacer | 54 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP |
| 16 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP | 55 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD |
| 17 | 0164940 | Drain Pan | 56 | 0232310 | Drawer Slide Shim, Rear |
| 18 | 0169590 | Kickplate Support | 57 | 0232300 | Drawer Slide Shim, Front060" |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD | | 2121180 | Shim, Freezer Drawer Front030" |
| 20 | 0169520 | Kickplate, Solid | 58 | 3412280 | Egg Tray Cover |
| | 0167820 | Kickplate, Stainless Steel | 59 | 3412270 | Egg Tray |
| 21 | 6200050 | Screw, #10-12 x 1/2" Pan HD | 60 | 4131810 | Egg Tray with Cover |
| 22 | 4161870 | Refrig. Light Diffuser Assembly | 61 | 4181801 | Cab Slide Assy, Fre; RT |
| 23 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 62 | 4181802 | Cab Slide Assy, Fre; LT |
| 24 | 3520420 | Insert / Diffuser Stand-off | 63 | 6110330 | Screw, #10-32 x 1/4" Chrome Plate |
| 25 | 3602330 | Shelf, Glass Cantilever | 64 | 6200590 | Screw, #12 x 1" Type A Zinc Flat HD |
| 26 | NA | | 65 | 3601821 | Refrig. shelf ladder, Right |
| 27 | NA | | 66 | 3601822 | Refrig. shelf ladder, Left |
| 28 | NA | | 67 | 6200710 | Screw, #8-18 x 3/8" Fillister HD |
| 29 | 4151750 | Crisper Glass Assembly (Incl. Seals) | 68 | 3411340 | Ice Bucket |
| 30 | 3211760 | Crisper Glass Seal, Rear | 69 | 6220050 | Screw Grommet, 1/2" x 5/8" |
| 31 | 3211730 | Crisper Glass Seal, Front | 70 | 6240040 | Flat Washer, 1/4" |
| 32 | 4181440 | High Humidity Drawer Assembly | 71 | 6110450 | Bolt, 1/4-20 x 1/2" Whiz Lock |
| 33 | 3413100 | Drawer Divider | 72 | 3550300 | Glide, Rear Drawer 1/2X1/4 |
| 34 | 3421770 | Humidity Drawer Slide-Frame | 73 | 6220430 | Screw Grommet |
| 35 | 4181412 | Top Crisper Slide Assembly, Wide-LH | 74 | 4280950 | Compressor Shroud Assembly |
| | 4181421 | Top Crisper Slide Assembly, Narrow-RH | 75 | 3421860 | Grommet,Spprt Insul. |
| 36 | 4181411 | Top Crisper Slide Assembly, Wide-RH | 76 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| | 4181422 | Top Crisper Slide Assembly, Narrow-LH | 77 | 4201320 | Blocking Kit; 36" (Not Shown) |
| 37 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | | |





650G MECHANICAL PARTS LIST

| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|----------|--------------------|---|------------|--------------------|---|
| 1 | 3450290 | Angle Bracket | 57 | 4162692 | Control Panel Assy, 650G Srvc |
| 2 | 0261200 | Shroud, Cond Fan | 58 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 3 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 59 | 4203790 | Control Board Pkg |
| 4 | 0168680 | Shim - Hinge | 60 | 3413940 | Control Board Encl. |
| 5 | 3541017 | Top Cabinet Hinge Cover, RH | 61 | 6110060 | Bolt, #10-32 x 5/8", Truss Head |
| | 3541018 | Top Cabinet Hinge Cover, LH | 62 | 3014350 | Thermistor |
| 6 | 6150410 | Nut, 1/4-20 | 63 | 0212540 | Bracket, Fan |
| 7 | 3150320 | Fan Blade, Cond, 5 prop, 7" | 64 | 0260540 | Drain Trough, Ref |
| 8 | 3210340 | Neoprene Silencer, 7/8" | 65 | 6201540 | Screw, #8- 15X1-1/4 PH PAN HD |
| 9 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 66 | 1601400 | Drain Tube, Wire - 1/2" x 72" |
| 10 | 3220360 | Grommet, Mtg Brkt | 67 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 11 | 0261150 | Bracket, Cond Mounting | 68 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 12 | 6200140 | Screw, #8- 15 x 3/8" Truss HD | 69 | 6120210 | U-Clamp, 5/8" |
| 13 | NA | | 70 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 14 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 71 | 4200160 | Freezer Fan Motor Pkg. (Blade not Incl.) |
| 15 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 72 | 0232280 | Fan Bracket, Fre |
| 16 | 4325671 | WH, Top Hinge Assy - RH | 73 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| | 4325672 | WH, Top Hinge Assy - LH | 74 | 3150640 | Fan Blade, Evaporator |
| 17 | 3421800 | Door Stop Cam | 75 | 4281510 | Shroud Assy, Fre Evap 650 Srvc |
| 18 | 3421790 | Bearing, Door Hinge | 76 | 3220250 | Grommet, 3/16" x 7/16" x 9/32" |
| 19 | 3430120 | Bushing, Door | 77 | 3520120 | Brass Insert, Fan Bracket |
| 20 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 78 | 6200670 | Screw, #6-18 x 3/4" Teks |
| 21 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 79 | 0234290 | Evaporator Cover, Fre |
| 22 | 4151841 | Hinge, Door Bottom LH | | 0234300 | Fre Evap. Cvr Lft Side |
| | 4151842 | Hinge, Door Bottom RH | 80 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 23 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 81 | 3030040 | Light Bulb, Long/Narrow; 40 watt |
| 24 | 6200390 | Screw, #6 x 3/8" T25 Flat Head PH | 82 | 3050220 | Socket, Light Int Base Sngl |
| 25 | 3430110 | Closer, Door-Cabinet Side | 83 | 0234310 | Fre Air Duct Assy |
| 26 | 3430140 | Cover, Door Closer | 84 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 27 | 3430100 | Closer, Door-Door Side | 85 | 2600297 | Tube, Copper L-Shaped |
| 28 | 4152081 | Cabinet Hinge, Bot - RH | 86 | 3520380 | Compression Nut |
| | 4152082 | Cabinet Hinge, Bot - LH | 87 | 3520370 | Compression Sleeve |
| 29 | 6110810 | Screw, Machine #10-24X3/4 PH FT HD | 88 | 4202790 | Water Valve |
| 30 | 4110353 | Base Assy (w/rollers) | 89 | 3520050 | Brass Insert, Solenoid |
| 31 | 4110331 | Base Rear Roller Assy | 90 | 3520030 | Icemaker Nylon Nut, 1/4" |
| 32 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 91 | 2600617 | Plastic Water Line |
| 33 | 3550560 | Straight Pin, Base Assy, .312" x 2.88" | 92 | 0168160 | Solenoid Water Valve Bracket |
| 34 | 3450620 | Canoe Clip | 93 | 6200780 | Screw, #10-24 x 1/2" PH Hex Washer |
| 35 | 3421240 | Cabinet Roller (Single) | 94 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 36 | 3570050 | Leveling Leg, #18-3/8 x 1" | 95 | 1607700 | Water Inlet Tube |
| 37 | 6110580 | Adjusting Screw | 96 | 6220470 | Fill Tube Clamp |
| 38 | 4200170 | Refrig. Fan Motor Pkg. (Blade not Incl.) | 97 | 3070210 | Heater, Fill Tube |
| 39 | 0261330 | Bracket, Light | 98 | 6120450 | Locking Cable Tie 9.7" BLK |
| 40 | 3030150 | Light Strip, 15 WATT | 99 | 2605410 | Water Inlet Tube Extension |
| 41 | 3220810 | Grommet, Open/Closed 1/2 | 100 | 4200522 | Icemaker Assembly |
| 42 | 0212740 3150640 | Box, Light Display Fan blade, Ref/Fre Evap. | 101 102 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 43 | | 90° Stop Pin | 102 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 44 45 | 3550770 | Light Terminator | 103 | 6201270 0233820 | Screw, #8-18 x 5/8" PH PN SS-Gnd Switch Housing, Freezer |
| 45 46 | 3082140 6201590 | Screw, #8-32X1/2 Taplite Pn Trx | 104 | 3060140 | SPST Light Switch |
| 47 | 6220540 | Screw Grommet / Stand-off | 106 | 3060140 | SPST Fan/Icemaker Switch |
| 48 | 6201010 | Screw, #8-15 x 2" Pan Head | 107 | 3082060 | Defrost Terminator |
| 49 | 4162660 | Shroud Assy, Ref Fan | 108 | 1801100 | Heater Clip |
| 50 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 109 | 6120340 | Aluminum Strap |
| 51 | 3050250 | Socket, Light Med Base Double | 110 | 4324640 | Defrost Heater Assy |
| 52 | 3030230 | Light Bulb, 40 Watt | 111 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 53 | 3060130 | SPST Fan/Icemaker Switch | 112 | 6110270 | Bolt, #10-32 X 1/4 Rd Hd |
| 54 | 3060130 | SPST Light Switch | 113 | 3140400 | Icemaker Rudder Arm |
| 55 | 6160240 | Nylon Spacer | 114 | 4321820 | Power Cord |
| 56 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 115 | 3520250 | Water Inlet Fitting Assy |
| | | . , | | | |

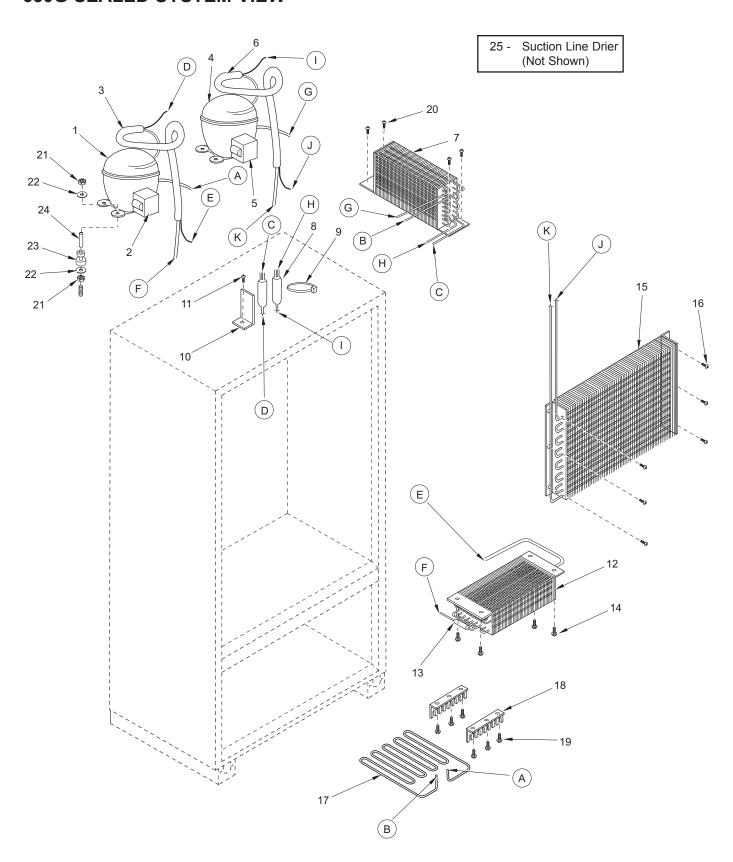




650G SEALED SYSTEM PARTS LIST

| Ref# | Part # | Description |
|------|---------|---|
| 1 | 4202280 | Compressor, (EMI60HER) (See SN Breaks) |
| 2 | 3111460 | Relay, (1351408 - for EMI60HER) |
| | 3111470 | Overload, (4TM757NFB - for EMI60HER) |
| 3 | 4251270 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 5 | 3111370 | Relay, (1351400 - for EMI30HER) |
| | 3111410 | Overload, (4TM734LFB - for EMI30HER) |
| 6 | 4251560 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 3130580 | Evaporator Coil, Fre |
| 13 | 3011130 | Freezer Accumulator |
| 14 | 6200120 | Screw, #10-12 x 1/2" Truss HD |
| 15 | 3130630 | Evaporator, Ref |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 25 | 3014100 | Suction Line Drier (Service Only - Not Shown) |

650G SEALED SYSTEM VIEW

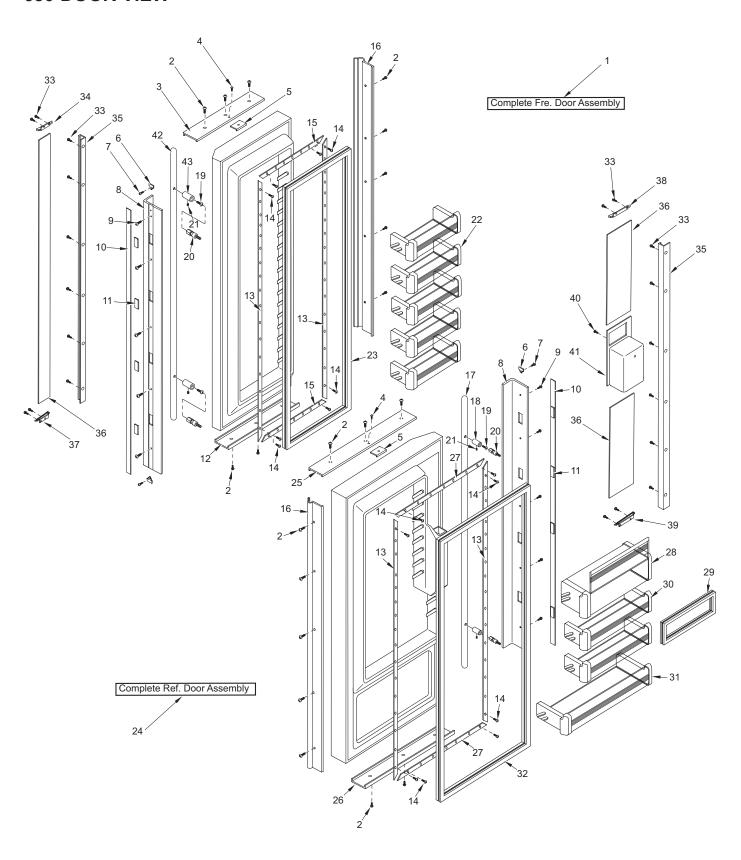




680 DOOR PARTS LIST

| Ref# | Dort # | Description | Ref # | Part # | Description |
|------|---------|---|-------|---------|--|
| | Part # | Description | | Part # | Description |
| 1 | 4132675 | Fre Door Assy-Framd(See SN Breaks) | 28 | 4330620 | Dairy Compartment Assembly |
| | 4132925 | Fre Door Assy-Framd(See SN Breaks) | 29 | 3211910 | Dairy Compartment Gasket |
| | 4132695 | Fre Door Assy - SS (See SN Breaks) | 30 | 4330630 | Upper Refrig. Door Shelf Assembly |
| | 4133275 | Fre Door Assy - SS (See SN Breaks) | 31 | 4330550 | Refrig. Door Shelf Assembly (Regular) |
| 2 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | | 4330540 | Gallon Door Shelf Assy (Sales Acc.) |
| 3 | 2230617 | Door Trim, Top; Freezer | 32 | 3212180 | Door Gasket, Refrigerator |
| 4 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 33 | 6200840 | Screw, #10 x 1/2" PH FH AB SS |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 34 | 3413451 | Top Trim Filler, Freezer Door |
| 6 | 3413340 | Handle/Trim End Cap | 35 | 3511470 | Vertical Trim Strip |
| 7 | 6180160 | Rivet, Open End Blind, 1/8" X 3/16" | 36 | P1/P2 | Hndl Insrt-Brt White / Almond Buff |
| 8 | 4132650 | Door Handle Assy, 67.88" | | P3/P4 | Handle Insert-Camel/Adobe |
| 9 | 6201300 | Tapping Screw, #8 x 1/2" | | P5 | Handle Insert-Brushed Pewter |
| 10 | 4131860 | Handle/Trim Molding Assembly | | P6/P7 | Hndl Insrt-Smoke Gray / Charcoal |
| 11 | 3451000 | Magnet, Trim Strip - 3" | | P8/P9 | Hndl Insrt-Port Brown / Black Slate |
| 12 | 2230618 | Door Trim, Bottom; Freezer | | P10 | Handle Insert-Stainless Steel |
| 13 | 3420260 | Gasket Retainer, 66.875" | | P11 | Handle Insert-White Enamel |
| 14 | 6200410 | Screw, #8 x 1/2" Slot Head Hex | | P12 | Handle Insert-Avocado Enamel |
| 15 | 3421610 | Gasket Retainer, 13.813" | | P13 | Handle Insert-Harvest Gold Enamel |
| 16 | 3511131 | Door Trim, Hinge Side - Mitered Corner | | P14 | Handle Insert-Almond Enamel |
| | 3511130 | Door Trim, Hinge Side - (SS Model) | | P15 | Handle Insert-Coffee Enamel |
| 17 | 4132630 | Handle Assy, SS 7/8"D X 43"L-Ref | 37 | 3413452 | Bottom Trim Filler, Freezer Door |
| | | (Incl Stnd-off) (See SN Breaks) | 38 | 3413441 | Top Trim Filler, Refrig. Door |
| | 4133100 | Handle Assy, SS 1"D Rnd-Ref (Incl | 39 | 3413442 | Bottom Trim Filler, Refrig. Door |
| | | Stnd-off) (See SN Breaks) | 40 | 6200900 | Screw, #8 x 1/2" PH FH Hi-Lo |
| | 4133650 | Handle Assy, SS 1"D Blnt-Ref (Incl | 41 | G1 | Glass Well-Bright White |
| | | Stnd-off) (See SN Breaks) | | G2 | Glass Well-Almond Buff |
| | 4133740 | Handle Assy, SS OBR Standoff-Ref | | G3 | Glass Well-Camel |
| | | (See SN Breaks) | | G4 | Glass Well-Adobe |
| 18 | 3511490 | Refrig Hndl Stand-off, 7/8"D / 3.5 Deg. | | G5 | Glass Well-Brushed Pewter |
| | | (See SN Breaks) | | G6 | Glass Well-Smoke Gray |
| | 3511850 | Refrig Hndl Stand-off, 1"D / 3.5 Deg. | | G7 | Glass Well-Charcoal |
| | | (See SN Breaks) | | G8 | Glass Well-Port Brown |
| | 3512170 | Standoff, SS Oval, Ref 4 Deg. | | G9 | Glass Well-Black Slate |
| | | (See SN Breaks) | | 3413410 | Glass Well-Stnls Steel (SS Model Only) |
| 19 | 6110720 | Bolt #10-24X1/2 Socket HD Cap | 42 | 4132640 | Handle Assy, SS 7/8"D-Fre |
| 20 | 3511520 | Handle Mounting Stud | | | (Incl Stnd-off) (See SN Breaks) |
| 21 | 6110730 | Set Screw #10-32 X 1/4 SS Cone | | 4133110 | Hndl Assy, SS 1"D Rnd-Fre (Incl Stnd- |
| 22 | 4330580 | Fre Door Shelf Assy (See SN Breaks) | | | offs) (See SN Breaks) |
| | 4330650 | Fre Door Shelf Assy (See SN Breaks) | | 4133660 | Hndl Assy, SS 1"D Blnt-Fre (Incl Stnd- |
| 23 | 3211670 | Door Gasket, Fre (See SN Breaks) | | | offs) (See SN Breaks) |
| | 3212190 | Door Gasket, Fre (See SN Breaks) | | 4133750 | Handle Assy, SS OBR Standoff-Fre |
| 24 | 4132665 | Ref Door Assy-Framd(See SN Breaks) | | | (See SN Breaks) |
| | 4132915 | Ref Door Assy-Framd(See SN Breaks) | 43 | 3511480 | Fre. Handle Stand-off, 7/8"D / 10 Deg. |
| | 4132685 | Ref Door Assy - SS (See SN Breaks) | | | (See SN Breaks) |
| | 4133265 | Ref Door Assy - SS (See SN Breaks) | | 3511860 | Fre. Handle Stand-off, 1"D / 10 Deg. |
| 25 | 2230615 | Door Trim, Top; Refrigerator | | | (See SN Breaks) |
| 26 | 2230616 | Door Trim, Bottom; Refrigerator | | 3152180 | Standoff, SS Oval, Fre 10 Deg. |
| 27 | 3421620 | Gasket Retainer, 23.125" | | | (See SN Breaks) |
| | | | I | | |

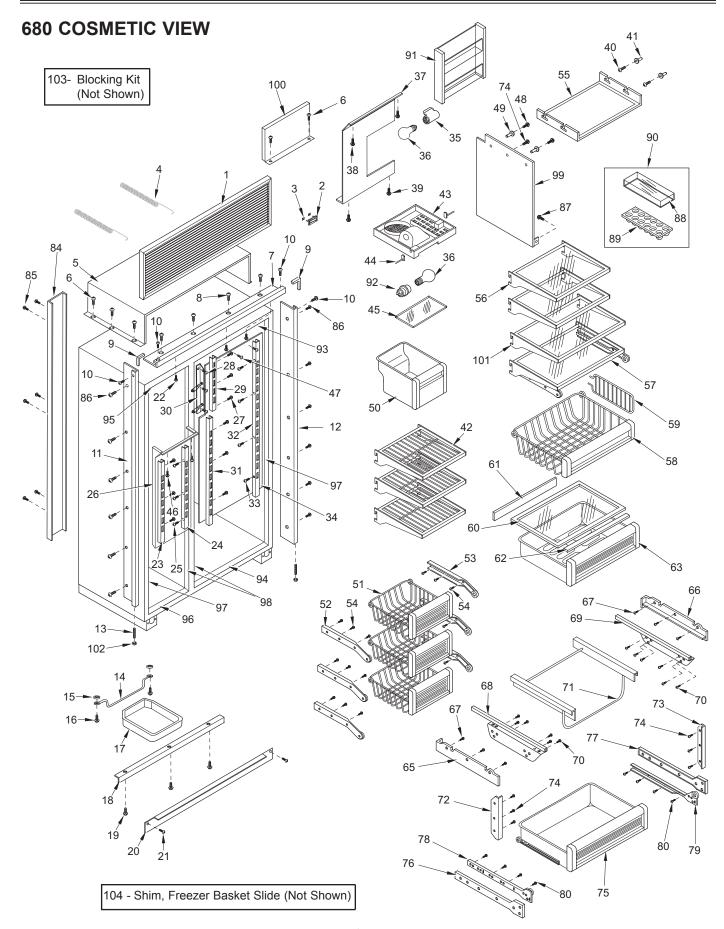
680 DOOR VIEW





680 COSMETIC PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | <u>Description</u> |
|----------|--------------------|---|------------|--------------------|---|
| 1 | 6LG4211 | Louvered Grille Assembly, 42" x 11" | 5 0 | 4181690 | Ice Bucket Assy |
| • | 6PG4211 | Panel Grille Assembly, 42" x 11" | 51 | 4181640 | Freezer Basket Assy (See SN Breaks) |
| | 6SG4211 | SS Grille Assy, 42 x 11 (See SN Breaks) | | 4181970 | Freezer Basket Assy (See SN Breaks) |
| | 6SG4211/S | SS Grille,42X11-CLSC (See SN Breaks) | 52 | 4180972 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| 2 | 3580230 | Nameplate w/ Pegs | | 4181842 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| | 3580210 | Name Plate, Stick-on | 53 | 4180971 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 3 | 6150140 | Spring Grip Nut, 1/8" | | 4181841 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 4 | 3450900 | Grille Spring | 54 | 6200450 | Screw, #8 x 1" Type AR Flat |
| 5 | 4281000 | Unit Shroud Assembly | 55 | 4161490 | Refrig. Light Diffuser Assembly |
| 6 | 6200230 | Screw, #8-18 x 1/2" Hex Head | 56 | 3602100 | Glass Shelf, Refrig Upper, Spill Proof |
| 7 | 2229708 | Main Frame, Top | 57 | 4181650 | Refrig. Roll-out Shelf Assy |
| 8 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 58 | 4181530 | Refrig. Roll-out Basket Assy |
| 9 10 | 2210701 6200070 | Main Frame Angle | 59 60 | 3411160 | Ref Roll-Out Bskt Divider |
| 10 11 | 4120590 | Screw, #4-24 x 3/8" Flat HD Main Frame Assy, Left (See SN Breaks) | 61 | 4151760 3211780 | Crisper Glass Assembly (Incl Seals) Crisper Glass Seal, Rear |
| 11 | 4120830 | Main Frame Assy, Left (See SN Breaks) | 62 | 3211750 | Crisper Glass Seal, Real Crisper Glass Seal, Front |
| 12 | 4120580 | Main Frame Assy, Right (See SN Breaks) | 63 | 4181450 | High Humidity Drawer Assembly |
| | 4120820 | Main Frame Assy, Right (See SN Breaks) | 64 | N/A | riigh Hamaily Brawer recombly |
| 13 | 3550190 | Bottom Hinge Stud | 65 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| 14 | 3420760 | Drain Pan Holder | 66 | 3421721 | Top Crisper glass Support, Wide-RH |
| 15 | 3420670 | Screw Spacer | 67 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 16 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP | 68 | 4181421 | Top Crisper Slide Assy, Narrow-RH |
| 17 | 0164940 | Drain Pan | 69 | 4181411 | Top Crisper Slide Assembly, Wide-RH |
| 18 | 0169840 | Kickplate Support | 70 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 71 | 3421780 | Humidity Drawer Slide-Frame |
| 20 | 0169820 | Kickplate, Black-Solid | 72 | 3421732 | Crisper Filler Strip, Wide |
| | 0168210 | Kickplate, Stainless Steel | 73 | 3421731 | Crisper Filler Strip, Narrow |
| 21 | 6200050 | Screw, #10-12 x 1/2" Pan HD | 74 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 00 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 75 | 4181480 | Small Storage Drawer Assembly |
| 22 23 | 6201310 3602072 | Screw, #8 x 1-3/4" Flat PH HD | 76 77 | 3421691 | Bott Crisper Slide Support, Narrow |
| 23 | 3602072 | Fre Shelf Ladder, Left (See SN Breaks) Fre Shelf Ladder, Left (See SN Breaks) | 78 | 3421692 3413112 | Bott Crisper Slide Support, Wide Bot Crisper Slide, Cabinet - Left |
| 24 | 3602071 | Fre Shelf Ladder, Right (See SN Breaks) | 79 | 3413111 | Bot Crisper Slide, Cabinet - Right |
| | 3602220 | Fre Shelf Ladder, Right (See SN Breaks) | 80 | 6201230 | Screw, #8 x 7/8" w/a #7 PH FT Head |
| 25 | 6200710 | Screw, #8-18 x 3/8" Fillister HD | 81 | N/A | |
| 26 | 0200910 | Freezer Duct (See SN Breaks) | 82 | N/A | |
| | 0201150 | Freezer Duct (See SN Breaks) | 83 | N/A | |
| 27 | 6200710 | Screw, #8-18 x 3/8" Fillister HD | 84 | 0168120 | Back Duct (See SN Breaks) |
| 28 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | 0169600 | Back Duct (See SN Breaks) |
| 29 | 4151410 | Refrig. Upper Left Shelf Ladder Assy | 85 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP |
| 30 | 4151400 | Tank Cover Bracket Assembly | 86 | 6200210 | Screw, #8-32 x 1/2" Flat Head |
| 31 | 3602060 | Refrig. Shelf Ladder, Lower Left | 87 | 6200140 | Screw, #8-15 x 3/8" Truss HD |
| 32 | 3601811 | Refrig. Shelf Ladder, Right | 88 | 3412280 | Egg Tray Cover |
| 33 34 | 6200710 0201140 | Screw, #8-18 x 3/8" Fillister HD Refrigerator Evaporator Cover | 89 90 | 3412270 4131810 | Egg Tray Egg Tray with Cover |
| 35 | 3050190 | Light Socket, Single | 90 | 4181680 | Juice Can Rack Assy (See SN Breaks) |
| 36 | 3030030 | Light Bulb, 40 Watt | " | 4181860 | Juice Can Rack Assy (See SN Breaks) |
| 37 | 4161120 | Light Assy, Fre Evap Frnt(See SN Breaks) | 92 | 3050170 | Light Socket, Single; Straight |
| ٠. | 4161500 | Light Assy, Fre Evap Frnt (See SN Breaks) | 93 | 2811217 | Breaker Strip, Ref Top (See SN Breaks) |
| 38 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 94 | 2811218 | Breaker Strip, Ref Bot (See SN Breaks) |
| 39 | 6200140 | Screw, #8-15 x 3/8" Truss HD | 95 | 2811219 | Breaker Strip, Fre Top (See SN Breaks) |
| 40 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 96 | 2811220 | Breaker Strip, Fre Bot (See SN Breaks) |
| 41 | 3520420 | Insert / Diffuser Stand-off | | 4203920 | Patch,Fre Face Frm Sill(See SN Breaks) |
| 42 | 3601980 | Freezer Wire Shelf (See SN Breaks) | 97 | 2811205 | Brkr Strip;Fre/LS,Ref/RS(See SN Breaks) |
| | 3602210 | Freezer Wire Shelf (See SN Breaks) | 98 | 1811300 | Breaker Strip, Mullion (See SN Breaks) |
| 43 | 4151910 | Cover Assy, Lwr Evap (See SN Breaks) | 99 | 0212420 | Water Reservoir Tank Cover |
| 4.4 | 4151970 | Cover Assy, Lwr Evap (See SN Breaks) | 100 | 4280950 | Compsr. Shroud Assy (See SN Breaks) |
| 44 45 | 3550620 | Snap Pin | 101 | 3602041 | Glass Shelf, Spill Proof |
| 45 46 | 3500620 | Freezer Lower Light Diffuser Screw, #8-15 x 3/8" Truss HD | 102 103 | 6150200 | Nut, 1/4-20 Hex Blocking Components; 42" |
| 46 47 | 6200140 6201270 | Screw, #8-15 x 3/8 Truss HD Screw, #8-18 x 5/8" PH PN SS-Gnd | 103 | 4202860 3411890 | Shim, Fre Basket Slide (See SN Breaks) |
| 48 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | '07 | 2121120 | Shim, Fre Basket Slide (See SN Breaks) |
| 49 | 3520420 | Insert / Diffuser Stand-off | | | J, 170 Backet Olido (OCC OI4 BIOCKS) |
| . • | 30-01-0 | | l | | |

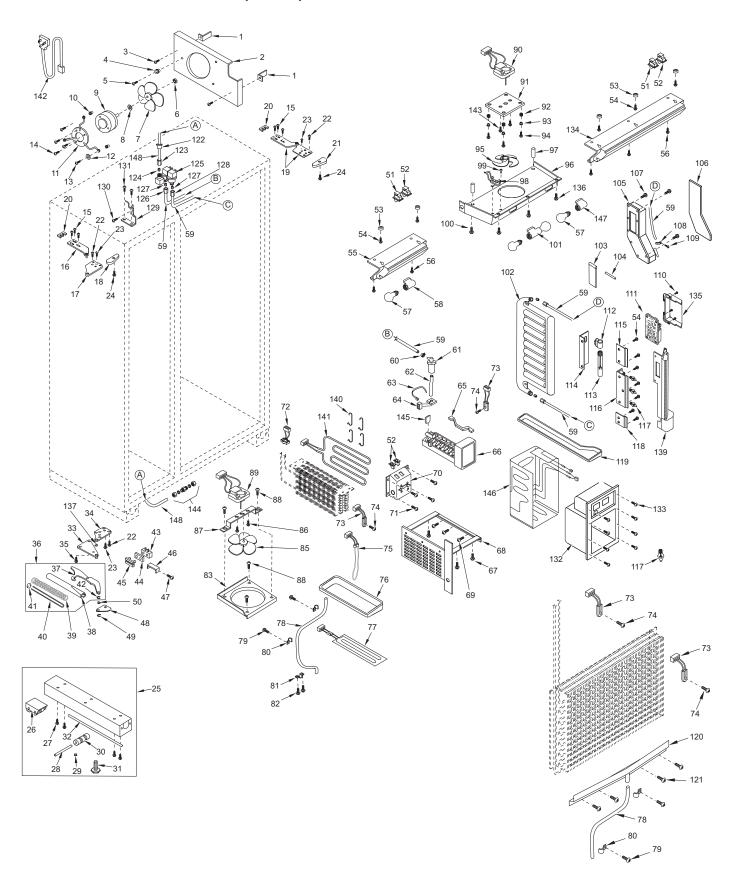




680 MECHANICAL PARTS LIST (1 of 2)

| Ref# | Part # | Description | Ref # | Part # | <u>Description</u> |
|----------|--------------------|---|----------|--------------------|---|
| | | • | | | |
| 1 | 3450290 | Angle Bracket | 49 | 3450560 | E-Ring, 7/16" |
| 2 | 0169510 | Condenser Fan Shroud | 50 | 3450550 | E-Ring / Klipring , 5/16" |
| 3 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 51 | 3060140 | SPST Light Switch |
| 4 | 3420670 | Screw Spacer | 52 | 3060130 | SPST Fan/Icemaker Switch |
| 5 | 6200450 | Screw, #8 x 1" Type AR Flat | 53 | 6160240 | Nylon Spacer |
| 6 | 6150410 | Nut, 1/4-20 | 54 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD |
| 7 | 3150320 | Fan Blade, Cond, 5 prop, 7" | 55 | 4161091 | Frzr Front Panel Assy (See SN Breaks) |
| 8 | 3210340 | Neoprene Silencer, 7/8" | | 4161471 | Frzr Front Panel Assy (See SN Breaks) |
| 9 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 56 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | | (See SN Breaks) | 57 | 3030030 | Light Bulb, 40 Watt |
| | 4200741 | Motor Pkg, Cond Fan (blade not incl.) | 58 | 3050190 | Light Socket, Single |
| 4.5 | | (See SN Breaks) | 59 | 2600617 | Plastic Water Line |
| 10 | 6150330 | Well Nut, .75D x .804", #10-32 | 60 | 6220470 | Fill Tube Clamp |
| 11 | 3150650 | Condenser Fan Bracket | 61 | 1607700 | Water Inlet Tube |
| 12 | 6240350 | Fender Washer, .25x1.25x.06 | 62 | 2605411 | Water inlet Tube extension, 2.06" |
| 13 | 6201280 | Machine Screw, #10-32 x 1-1/4" | 63 | 6120450 | Locking Cable Tie 9.7" BLK |
| 14 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 64 | 3013820 | Fill Tube Heater |
| 15 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 65 | 3140390 | Icemaker Rudder Arm |
| 16 | 4151272 | Cabinet Hinge Assy, Upper LH | 66 | 4200522 | Icemaker Assembly |
| 17 | 4151472 | Door Hinge Assy, Top LH | 67 | 6201000 | Screw #8-32X3/8 Thread Forming |
| 18 | 3541018 | Top Cabinet Hinge Cover, LH | 68 | 4202970 | Ice Bucket Main Frame Assembly |
| 19 | 4324250 | Cbnt Hng Assy, Upr RH(See SN Breaks) | 69 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 00 | 4325070 | Cbnt Hng Assy, Upr RH(See SN Breaks) | 70 | 4220420 | Auger Motor Assy (Incl motor & switches) |
| 20 | 0168680 | Shim - Hinge | 71 72 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 21 | 3541017 | Top Cabinet Hinge Cover, RH | 73 | 3082060 | Defrost Terminator |
| 22 23 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD Screw, #6 x 3/8" T25 Flat Head PH | 74 | 3014350 | Thermistor |
| 23 24 | 6200390 6200140 | Screw, #8-15 x 3/8" Truss HD | 75 | 6201270 3013540 | Screw, #8-18 x 5/8" PH PN SS-Gnd Drain Tube Heater (See SN Breaks) |
| 25 | 4110353 | Base Assy (w/rollers) | '3 | 3070170 | Drain Tube Heater (See SN Breaks) |
| 26 | 4110333 | Base Rear Roller Assy | 76 | 4190210 | Fre Drain Trough Assy (See SN Breaks) |
| 27 | 6200010 | Screw, #10-12 x 3/4" Pan HD | ' | 4190290 | Fre Drain Trough Assy (See SN Breaks) |
| 28 | 3550560 | Straight Pin, Base Assy312" x 2.88" | 77 | 4323200 | Freezer Drain Trough Heater Assy |
| 29 | 3450620 | Canoe Clip | 78 | 1601400 | Drain Tube, Wire - 1/2" x 72" |
| 30 | 3421240 | Cabinet Roller (Single) | 79 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 31 | 3570050 | Leveling Leg, #18-3/8 x 1" | 80 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 32 | 6110580 | Adjusting Screw | 81 | 6120210 | U-Clamp, 5/8" |
| 33 | 4151281 | Cabinet Hinge Assy, Lower RH | 82 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| | 4151282 | Cabinet Hinge Assy, Lower LH | 83 | 0234210 | Fre Evap Fan Shrd Assy(See SN Breaks) |
| 34 | 4151241 | Door Hinge, Bottom RH | | 0234910 | Fre Evap Fan Shrd Assy(See SN Breaks) |
| | 4151242 | Door Hinge, Bottom LH | 84 | N/A | |
| 35 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 85 | 3150570 | Fan Blade - ECM |
| 36 | 4201111 | Door Closer Assy, RH | 86 | 6200060 | Screw, #8-32 x 1/2" Pan HD |
| | 4201112 | Door Closer Assy, LH | 87 | 0234220 | Freezer Fan Bracket |
| 37 | 0183111 | Door Closer Arm - RH | 88 | 6200850 | Screw, #8 x 3/4" PH FH Hi-lo |
| | 0183112 | Door Closer Arm - LH | 89 | 4200160 | Freezer Fan Mtr Cmpnts (Blade not Incl.) |
| 38 | 3421300 | Door Closer Housing | 90 | 4200170 | Refrig. Fan Mtr Cmpnts (Blade not Incl.) |
| 39 | 3450530 | Door Closer Spring | 91 | 0211620 | Refrig Fan Bracket (See SN Breaks) |
| | 3450710 | Low Pull Door Closer Spring | | 0212520 | Refrig Fan Bracket (See SN Breaks) |
| 40 | 3421290 | Door Closer Linkage | 92 | 3220250 | Grommet, 3/16" x 7/16" x 9/32" |
| 41 | 0165980 | Door Closer Spring Retainer | 93 | 3520410 | Brass Insert, Fan |
| 42 | 3421260 | Door Closer Bearing | 94 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 43 | 3450570 | Door Closer Cushion | 95 | 3150640 | Fan blade, Ref/Fre Evap. |
| 44 | 0165970 | Door Closer Guide Support | 96 | 4161480 | Refrig. Fan Shroud Assy |
| 45 | 3421310 | Door Closer Guide | 97 | 6220540 | Screw Grommet / Stand-off |
| 46 | 0166360 | Door Stop Cushion Retainer | 98 | 3082140 | Light Terminator |
| 47 | 6180010 | Pop Rivet, 1/8" | 99 | 6180010 | Pop Rivet, 1/8" |
| 48 | DS90 | Door Stop - 90 Degree | 100 | 6201010 | Screw, #8-15 x 2" Pan Head |
| | DS105 | Door Stop - 105 Degree | | 100 | ANTINUED ON BACE C CC' |
| | | | | (00 | INTINUED ON PAGE 8-80) |

680 MECHANICAL VIEW (1 of 2)

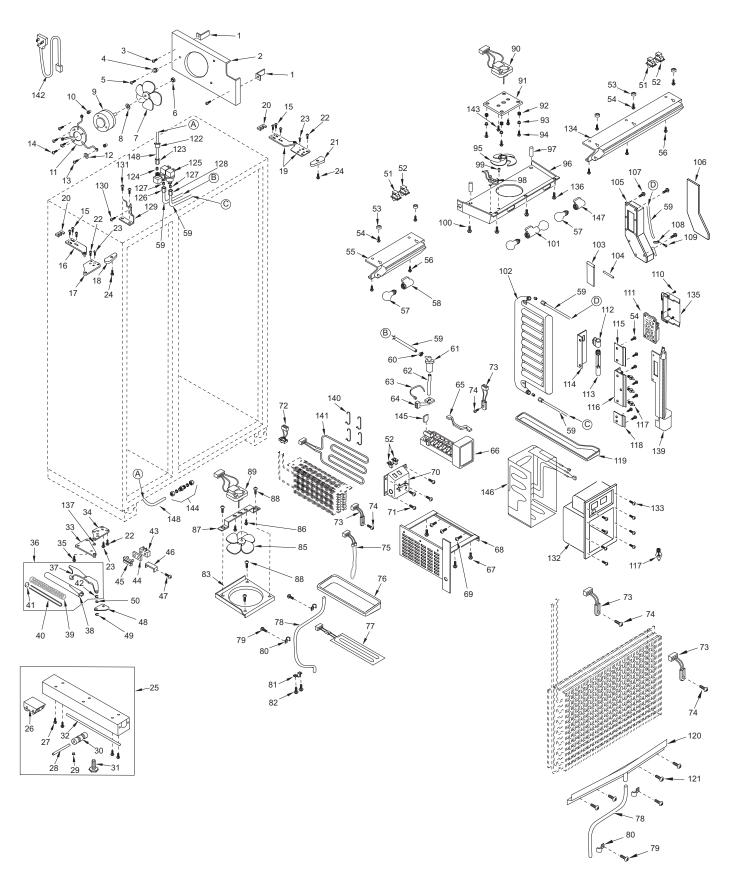




680 MECHANICAL PARTS LIST (2 of 2)

| Ref# | Part # | <u>Description</u> | Ref# | Part # | Description |
|------|---------|--|------|---------|---|
| | (CON | TINUED FROM PAGE 8-78) | 123 | 3520390 | Compression Fitting |
| | • | • | 124 | 3520390 | Compression Fitting |
| 101 | 3050180 | Light Socket, Double (See SN Breaks) | 125 | 3090280 | Dual Water Valve |
| | 3050250 | Sckt, Light M Base Dbl (See SN Breaks) | 126 | 3520380 | Compression Nut |
| | 3050190 | Light Socket, Single (See SN Breaks) | 127 | 3520050 | Brass Insert, Solenoid |
| | 3050230 | Skt, Light M Base Sngl (See SN Breaks) | 128 | 3520390 | Compression Fitting |
| 102 | 4181710 | Water Resrvr Tank Assy (Incl water lines) | 129 | 0167830 | Solenoid Bracket |
| 103 | 3515940 | Mullion Chute Door | 130 | 6200060 | Screw, #8-32 x 1/2" Pan HD |
| 104 | 3421360 | Chute Door Rod | 131 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 105 | 4181230 | Ice Chute/Water Nozzle Assembly | 132 | 4200960 | Door Dispenser Assembly |
| 106 | 3411530 | Ice Chute Cover | 133 | 6200850 | Screw, #8 x 3/4" PH FH Hi-lo |
| 107 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 134 | 4161081 | Ref. Front Panel Assy (See SN Breaks) |
| 108 | 6120120 | Tube Clamp, 3/8" Stl w/nut | | 4161321 | Ref. Front Panel Assy (See SN Breaks) |
| 109 | 6200330 | Screw, #8-18 x 3/8" Pan Head | 135 | 3413380 | Control Enclosure (See SN Breaks) |
| 110 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | | 3413810 | Control Enclosure (See SN Breaks) |
| 111 | 4202811 | Cntrl Brd Pkg-Dual/Disp (See SN Breaks) | 136 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 4203530 | Cntrl Brd Pkg-Dual/Disp(See SN Breaks) | 137 | 3421270 | Hinge Bearing, 3/8" x 5/8" |
| 112 | 3050010 | Light Socket, 3/4 Single (See SN Breaks) | 138 | N/A | |
| | 3050220 | Socket, Light Base Sngl (See SN Breaks) | 139 | 4160932 | Vertical Cntrl Pnl Assy (See SN Breaks) |
| 113 | 3030040 | Light Bulb, Long/Narrow; 40 watt | | 4161462 | Vertical Cntrl Pnl Assy (See SN Breaks) |
| 114 | 0169910 | Bracket, Display Light (See SN Breaks) | 140 | 1801100 | Heater Clip |
| | 0212790 | Bracket, Display Light (See SN Breaks) | 141 | 4323190 | Defrost Heater Assy (See SN Breaks) |
| 115 | 0212270 | Control Panel Retainer, Upper | | 4324500 | Defrost Heater Assy (See SN Breaks) |
| 116 | 0212280 | Control Panel Retainer, Mid | 142 | 4321820 | Power Cord |
| 117 | 3030070 | Light Bulb, 7W | 143 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 118 | 0212290 | Control Panel Retainer, Lower | 144 | 3520250 | Water Inlet Fitting Assy |
| 119 | 0212410 | Mullion Trough | 145 | 3140360 | Fill Cup Plug |
| 120 | 4190240 | Drain Trough Assembly (See SN Breaks) | 146 | 4323180 | Glass Well Heater (See SN Breaks) |
| | 0212600 | Drain Trough Assembly (See SN Breaks) | | 4324680 | Glass Well Heater (See SN Breaks) |
| 121 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 147 | 3050190 | Light Socket, Single |
| 122 | 3024010 | Heat Shrink/Spray Cvr (Also order 6120180) | 148 | 2604163 | Water Inlet Line, Copper |

680 MECHANICAL VIEW (2 of 2)

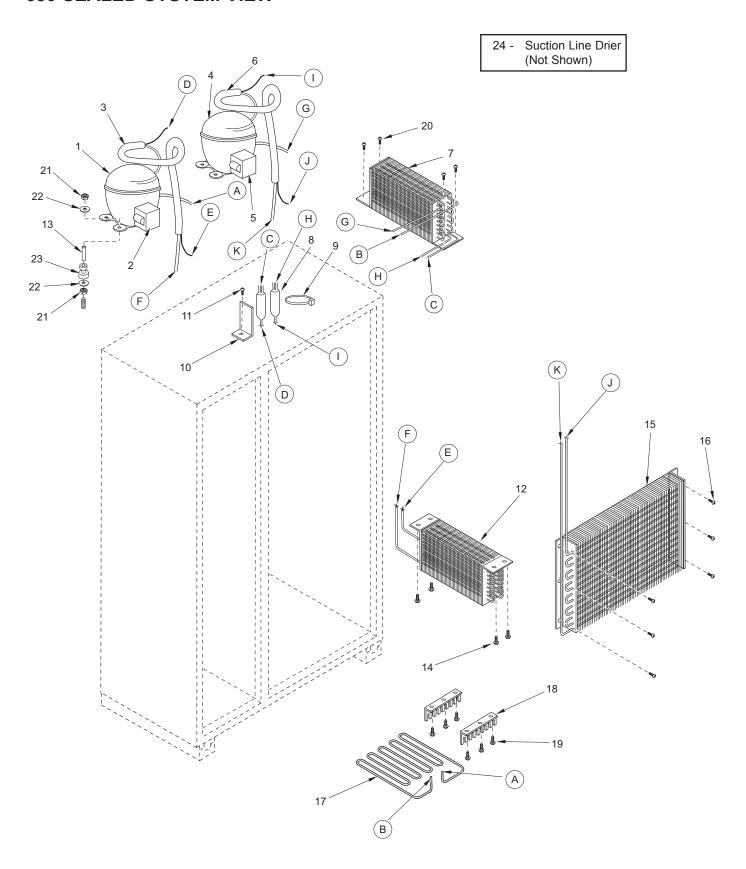




680 SEALED SYSTEM PARTS LIST

| D-4# | Doub# | Description |
|------|---------|---|
| Ref# | Part # | Description |
| 1 | 4202250 | Compressor, Freezer (DA73) (See SN Breaks) |
| | 4202280 | Compressor, Freezer (EMI60HER) (See SN Breaks) |
| 2 | 3111041 | Relay, (PTH490D-AS100) (Used with DA73 Compressor) |
| | 3111460 | Relay, (1351408) (Used with EMI60HER Compressor) |
| | 3111430 | Overload, (4TM419MFB) (Used with DA73 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor) |
| | 3111070 | Running Capacitor, (12Mf) (Used with DA73 Compressor) |
| 3 | 4251340 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 5 | 3111370 | Relay, (1351400 - For EMI30HER Comp) |
| | 3111410 | Overload, (4TM734LFB - For EMI30HER Comp) |
| 6 | 4251240 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 4211460 | Fre Evap Assy (Incl heat exch. & electricals) (See SN Breaks) |
| | 4211640 | Fre Evap Assy (Incl heat exch. & electricals) (See SN Breaks) |
| 13 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 14 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 15 | 3130420 | Evaporator, Refrig. |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 3014100 | Suction Line Drier (Service Only) |
| | | |

680 SEALED SYSTEM VIEW

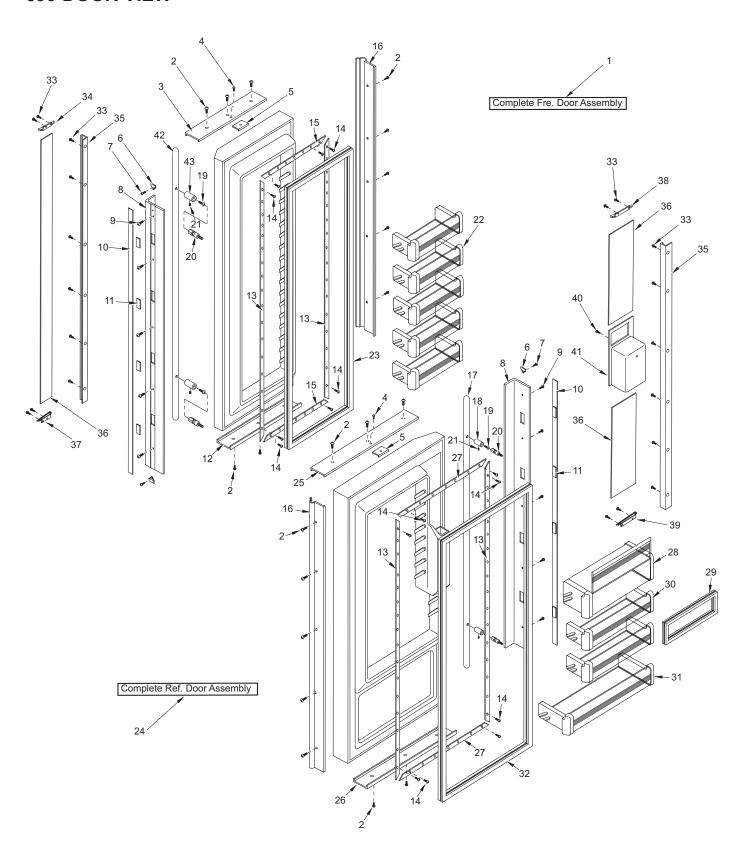




690 DOOR PARTS LIST

| Ref# | Part # | Description | Ref# | Part # | Description |
|------|---------|---|------|---------|--|
| 1 | 4132605 | Fre Door Assy-Framd(See SN Breaks) | 28 | 4330600 | Dairy Compartment Assembly |
| ' | 4132975 | Fre Door Assy-Framd(See SN Breaks) | 29 | 3211840 | Dairy Compartment Assembly Dairy Compartment Gasket |
| | 4132625 | Fre Door Assy - SS (See SN Breaks) | 30 | 4330590 | Upper Refrig. Door Shelf Assembly |
| | 4133195 | Fre Door Assy - SS (See SN Breaks) | 31 | 4330470 | Refrig. Door Shelf Assembly (Regular) |
| 2 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 31 | 4330520 | Gallon Door Shelf Assy (Sales Acc.) |
| 3 | 2230603 | Door Trim, Top; Freezer | 32 | 3212110 | Door Gasket, Refrigerator |
| 4 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 33 | 6200840 | Screw, #10 x 1/2" PH FH AB SS |
| 5 | 4200940 | Switch Depressor (Includes Screw) | 34 | 3413451 | Top Trim Filler, Freezer Door |
| 6 | 3413340 | Handle/Trim End Cap | 35 | 3511470 | Vertical Trim Strip |
| 7 | 6180160 | Rivet, Open End Blind, 1/8" X 3/16" | 36 | P1/P2 | Hndl Insrt-Brt White / Almond Buff |
| 8 | 4132650 | Door Handle Assy, 67.88" | 30 | P3/P4 | Handle Insert-Camel/Adobe |
| 9 | 6201300 | Tapping Screw, #8 x 1/2" | | P5 | Handle Insert-Brushed Pewter |
| 10 | 4131860 | Handle/Trim Molding Assembly | | P6/P7 | Hndl Insrt-Smoke Gray / Charcoal |
| 11 | 3451000 | Magnet, Trim Strip - 3" | | P8/P9 | Hndl Insrt-Port Brown / Black Slate |
| 12 | 2230604 | Door Trim, Bottom; Freezer | | P10 | Handle Insert-Stainless Steel |
| 13 | 3420260 | Gasket Retainer, 66.875" | | P11 | Handle Insert-White Enamel |
| 14 | 6200410 | Screw, #8 x 1/2" Slot Head Hex | | P12 | Handle Insert-Avocado Enamel |
| 15 | 3420140 | Gasket Retainer, 16.125" | | P13 | Handle Insert-Harvest Gold Enamel |
| 16 | 3511131 | Door Trim, Hinge Side - Mitered Corner | | P14 | Handle Insert-Almond Enamel |
| 10 | 3511130 | Door Trim, Hinge Side - (SS Model) | | P15 | Handle Insert-Coffee Enamel |
| 17 | 4132630 | Handle Assy, SS 7/8"D X 43"L-Ref | 37 | 3413452 | Bottom Trim Filler, Freezer Door |
| ., | 1102000 | (Incl Stnd-off) (See SN Breaks) | 38 | 3413441 | Top Trim Filler, Refrig. Door |
| | 4133100 | Handle Assy, SS 1"D Rnd-Ref (Incl | 39 | 3413442 | Bottom Trim Filler, Refrig. Door |
| | 1.00.00 | Stnd-off) (See SN Breaks) | 40 | 6200900 | Screw, #8 x 1/2" PH FH Hi-lo |
| | 4133650 | Handle Assy, SS 1"D Blnt-Ref (Incl | 41 | G1 | Glass Well-Bright White |
| | | Stnd-off) (See SN Breaks) | | G2 | Glass Well-Almond Buff |
| | 4133740 | Handle Assy, SS OBR Standoff-Ref | | G3 | Glass Well-Camel |
| | | (See SN Breaks) | | G4 | Glass Well-Adobe |
| 18 | 3511490 | Refrig Hndl Stand-off, 7/8"D / 3.5 Deg. | | G5 | Glass Well-Brushed Pewter |
| | | (See SN Breaks) | | G6 | Glass Well-Smoke Gray |
| | 3511850 | Refrig Hndl Stand-off, 1"D / 3.5 Deg. | | G7 | Glass Well-Charcoal |
| | | (See SN Breaks) | | G8 | Glass Well-Port Brown |
| | 3512170 | Standoff, SS Oval, Ref 4 Deg. | | G9 | Glass Well-Black Slate |
| 19 | 6110720 | Bolt #10-24X1/2 Socket HD Cap | | 3413410 | Glass well-Stnls Steel (SS Model Only) |
| 20 | 3511520 | Handle Mounting Stud | 42 | 4132640 | Fr Hndl Assy,7/8"DX43"L (Incl Stnd-off) |
| 21 | 6110730 | Set Screw #10-32 X 1/4 SS Cone | | | (See SN Breaks) |
| 22 | 4330460 | Fre Door Shelf Assy (See SN Breaks) | | 4133110 | Fre Hndl Assy,1"DX43"L (Incl Stnd-off) |
| | 4330660 | Fre Door Shelf Assy (See SN Breaks) | | | (See SN Breaks) |
| 23 | 3211090 | Door Gasket, Fre (See SN Breaks) | | 4133660 | Handle Assy, Fre 1"D X 43"L (Blunt) |
| | 3212090 | Door Gasket, Fre (See SN Breaks) | | | (Incl. Stand-offs) - (See SN Breaks) |
| 24 | 4132595 | Ref Door Assy-Framd(See SN Breaks) | 43 | 3511480 | Fre. Handle Stand-off, 7/8"D / 10 Deg. |
| | 4132965 | Ref Door Assy-Framd(See SN Breaks) | | | (See SN Breaks) |
| | 4132615 | Ref Door Assy- SS (See SN Breaks) | | 3511860 | Fre. Handle Stand-off, 1"D / 10 Deg. |
| | 4133185 | Ref Door Assy- SS (See SN Breaks) | | 0450400 | (See SN Breaks) |
| 25 | 2230601 | Door Trim, Top; Refrigerator | | 3152180 | Standoff, SS Oval, Fre 10 Deg. |
| 26 | 2230602 | Door Trim, Bottom; Refrigerator | | | (See SN Breaks) |
| 27 | 3420200 | Gasket Retainer, 27.062" | | | |

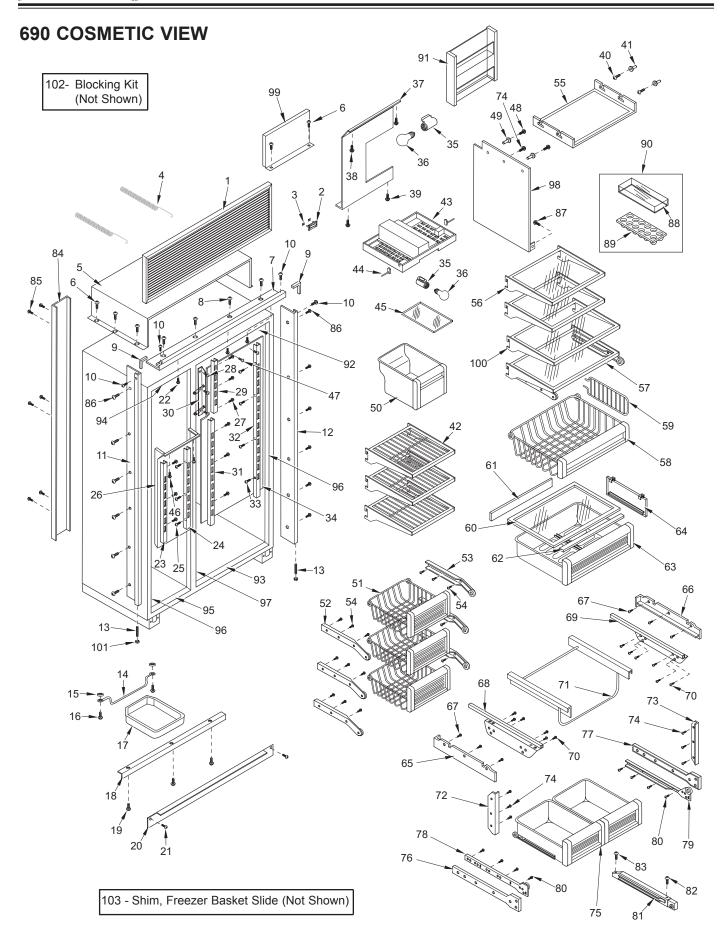
690 DOOR VIEW





690 COSMETIC PARTS LIST

| Ref# | Part # | <u>Description</u> | Ref # | Part # | <u>Description</u> |
|----------|--------------------|---|----------|--------------------|---|
| | | • | | | • |
| 1 | 6LG4811 | Louvered Grille Assembly, 48" x 11" | 50 | 4181180 | Ice Bucket Assy |
| | 6PG4811 | Panel Grille Assembly, 48" x 11" | 51 | 4181570 | Freezer Basket Assy (See SN Breaks) |
| | 6SG4811 | SS Grille 48" x 11"" (See SN Breaks) | | 4181820 | Freezer Basket Assy (See SN Breaks) |
| 2 | 6SG4811/S | SS Grille,48X11-CLSIC (See SN Breaks) | 52 | 4180972 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| 2 | 3580230 | Nameplate w/ Pegs | | 4181842 | Fre Bskt Slide Assy-LH (See SN Breaks) |
| 0 | 3580210 | Name Plate, Stick-on | 53 | 4180971 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 3 | 6150140 | Spring Grip Nut, 1/8" | _, | 4181841 | Fre Bskt Slide Assy-RH (See SN Breaks) |
| 4 | 3450900 | Grille Spring | 54 | 6200450 | Screw, #8 x 1" Type AR Flat |
| 5 | 4281080 | Unit Shroud Assembly | 55 | 4161580 | Refrig. Light Diffuser Assembly |
| 6 | 6200230 | Screw, #8-18 x 1/2" Hex Head | 56 | 3602050 | Glass Shelf, Refrig Upper, Spill Proof |
| 7 | 2229704 | Main Frame, Top | 57 | 4181560 | Refrig. Roll-out Shelf Assy |
| 8 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 58 | 4181540 | Refrig. Roll-out Basket Assy |
| 9 | 2210701 | Main Frame Angle | 59 | 3411160 | Ref Roll-Out Bskt Divider |
| 10 | 6200070 | Screw, #4-24 x 3/8" Flat HD | 60 | 4151770 | Crisper Glass Assembly (Incl Seals) |
| 11 | 4120590 | Main Frame Assy, Left (See SN Breaks) | 61 | 3211770 | Crisper Glass Seal, Rear |
| 40 | 4120830 | Main Frame Assy, Left (See SN Breaks) | 62 | 3211740 | Crisper Glass Seal, Front |
| 12 | 4120580 | Main Frame Assy, Right (See SN Breaks) | 63 | 4181460 | High Humidity Drawer Assembly |
| 40 | 4120820 | Main Frame Assy, Right (See SN Breaks) | 64 | 3413100 | Drawer Divider |
| 13 | 3550190 | Bottom Hinge Stud | 65 | 3421711 | Top Crspr Glass Support, Narrow-RH |
| 14 | 3420760 | Drain Pan Holder | 66 | 3421721 | Top Crisper glass Support, Wide-RH |
| 15 | 3420670 | Screw Spacer | 67 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 16 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP | 68 | 4181421 | Top Crisper Slide Assy, Narrow-RH |
| 17 | 0164940 | Drain Pan | 69 | 4181411 | Top Crisper Slide Assembly, Wide-RH |
| 18 | 0169970 | Kickplate Support | 70 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 71 | 3421760 | Humidity Drawer Slide-Frame |
| 20 | 0260150 | Kickplate, Black-Solid | 72 | 3421732 | Crisper Filler Strip, Wide |
| | 0167810 | Kickplate, Stainless Steel | 73 | 3421731 | Crisper Filler Strip, Narrow |
| 21 | 6200050 | Screw, #10-12 x 1/2" Pan HD | 74 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| | 6200720 | Screw, #8-18 x 1/2 PH Truss HD | 75 | 4181490 | Small Storage Drawer Assembly |
| 22 | 6201310 | Screw, #8 x 1-3/4" Flat PH HD | 76 | 3421691 | Bott Crisper Slide Support, Narrow |
| 23 | 3602072 | Fre Shelf Ladder, Left (See SN Breaks) | 77 | 3421692 | Bott Crisper Slide Support, Wide |
| 0.4 | 3602230 | Fre Shelf Ladder, Left (See SN Breaks) | 78 | 3413112 | Bot Crisper Slide, Cabinet - Left |
| 24 | 3602071 | Fre Shelf Ladder, Right (See SN Breaks) | 79 | 3413111 | Bot Crisper Slide, Cabinet - Right |
| 0.5 | 3602220 | Fre Shelf Ladder, Right (See SN Breaks) | 80 | 6201230 | Screw, #8 x 7/8" w/a #7 PH FT Head |
| 25 | 6200710 | Screw, #8-18 x 3/8" Fillister HD | 81 | 4181430 | Center Crisper Slide Assembly |
| 26 | 0200890 | Freezer Duct (See SN Breaks) | 82 | 6201120 | Screw, #8-18 x 1.75 Truss SS |
| 07 | 0201180 | Freezer Duct (See SN Breaks) | 83 | 6201130 | Screw, #8x 1/2" PH FL HD SS |
| 27 | 6200710 | Screw, #8-18 x 3/8" Fillister HD | 84 | 0168120 | Back Duct (See SN Breaks) |
| 28 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 0.5 | 0169600 | Back Duct (See SN Breaks) |
| 29 | 4151410 | Refrig. Upper Left Shelf Ladder Assy | 85 | 6201060 | Screw, #8x1-1/4" PH FLAT TAP |
| 30 | 4151400 | Tank Cover Bracket Assembly | 86 | 6200210 | Screw, #8-32 x 1/2" Flat Head |
| 31 | 3602060 | Refrig. Shelf Ladder, Lower Left | 87 | 6200140 | Screw, #8-15 x 3/8" Truss HD |
| 32 | 3601811 | Refrig. Shelf Ladder, Right | 88 | 3412280 | Egg Tray Cover |
| 33 | 6200710 | Screw, #8-18 x 3/8" Fillister HD | 89 | 3412270 | Egg Tray |
| 34 | 0201170 | Refrigerator Evaporator Cover | 90 | 4131810 | Egg Tray with Cover |
| 35 | 3050190 | Light Socket, Single | 91 | 4181190 | Juice Can Rack Assy (See SN Breaks) |
| 36 | 3030030 | Light Bulb, 40 Watt | 02 | 4181880 | Juice Can Rack Assy (See SN Breaks) |
| 37 | 4161060 | Light Assy, Fre Evap Frnt (See SN Breaks) | 92 | 2811201 2811202 | Breaker Strip, Ref Top (See SN Breaks) |
| 20 | 4161590 | Light Assy,Fre Evap Frnt(See SN Breaks) Screw, #8-18 x 5/8" PH PN SS-Gnd | 93 94 | | Breaker Strip, Ref Bot (See SN Breaks) Breaker Strip, Fre Top (See SN Breaks) |
| 38 | 6201270 6200140 | Screw, #8-15 x 3/8" Truss HD | 95 | 2811203 2811204 | |
| 39 40 | | • | 95 | | Breaker Strip, Fre Bot (See SN Breaks) Patch,Fre Face Frm Sill(See SN Breaks) |
| 40 41 | 6201330 3520420 | Screw, #8-18 x 5/8" PH PN SS-Gnd Insert / Diffuser Stand-off | 96 | 4203910 2811205 | Brkr Strip;Fre/LS,Ref/RS(See SN Breaks) |
| 42 | | | 97 | | |
| 74 | 3601870 3602200 | Freezer Wire Shelf (See SN Breaks) Freezer Wire Shelf (See SN Breaks) | 98 | 1811300 0212420 | Breaker Strip, Mullion (See SN Breaks) Water Reservoir Tank Cover |
| 13 | | | 99 | | Compressor Shroud Assembly |
| 43 44 | 4151890 | Fre Lwr Evap Cvr Assy (Incl light socket) | 100 | 4280950 | • |
| 44 45 | 3550610 3500620 | Snap Pin Freezer Lower Light Diffuser | 100 | 3601891 6150200 | Glass Shelf, Spill Proof Nut, 1/4-20 Hex |
| 45 46 | 6200140 | Screw, #8-15 x 3/8" Truss HD | 101 | 4201330 | Blocking Components; 48" |
| 47 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 102 | 3411890 | Shim, Fre Basket Slide (See SN Breaks) |
| 48 | 6201330 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 100 | 2121120 | Shim, Fre Basket Slide (See SN Breaks) |
| 49 | 3520420 | Insert / Diffuser Stand-off | | Z 1Z 1 1Z U | omm, the basket once (oce on bleaks) |
| 73 | JJZU7ZU | moon / Dimaon Otalia-uli | | | |

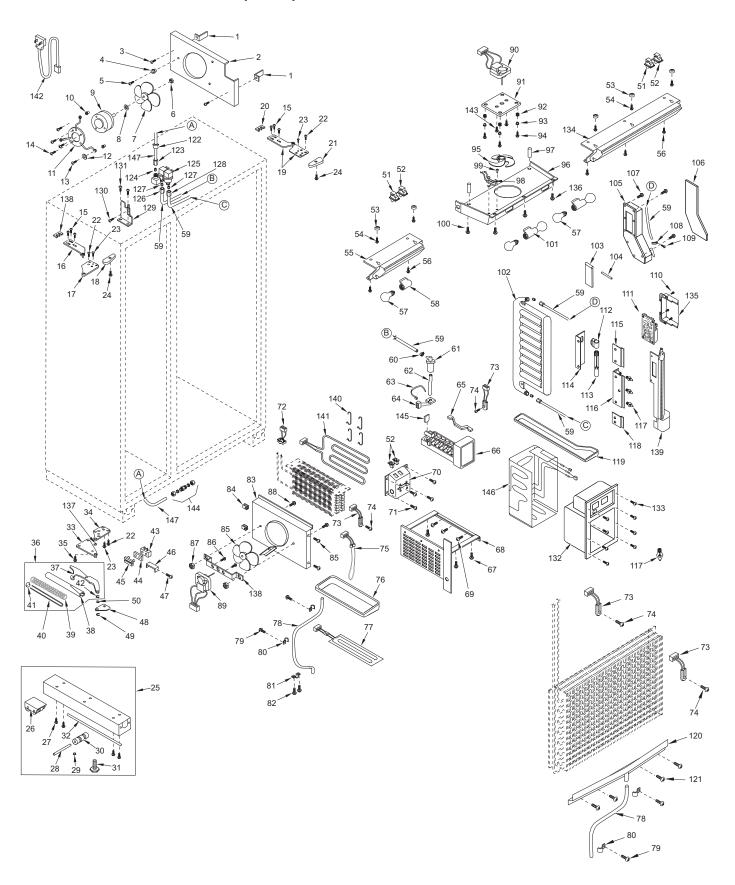




690 MECHANICAL PARTS LIST (1 of 2)

| Ref# | Part # | <u>Description</u> | Ref# | Part # | <u>Description</u> |
|----------------------|--------------------|---|----------|--------------------|---|
| 1 | 3450290 | Angle Bracket | 50 | 3450550 | E-Ring / Klipring , 5/16" |
| 2 | 0169980 | Condenser Fan Shroud | 51 | 3060140 | SPST Light Switch |
| 3 | 6200010 | Screw, #10-12 x 3/4" Pan HD | 52 | 3060130 | SPST Fan/Icemaker Switch |
| 4 | 3420670 | Screw Spacer | 53 | 6160240 | Nylon Spacer |
| 5 | 6200450 | Screw, #8 x 1" Type AR Flat | 54 | 6200720 | Screw, #8-18 x 1/2 PH Truss HD |
| 6 | 6150410 | Nut, 1/4-20 | 55 | 4160951 | Freezer Front Pnl Assy (See SN Breaks) |
| 7 | 3150320 | Fan Blade, Cond, 5 prop, 7" | | 4161561 | Freezer Front Pnl Assy (See SN Breaks) |
| 8 | 3210340 | Neoprene Silencer, 7/8" | 56 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 9 | 4200740 | Motor Pkg, Cond Fan (blade not incl.) | 57 | 3030030 | Light Bulb, 40 Watt |
| | | (See SN Breaks) | 58 | 3050190 | Light Socket, Single (See SN Breaks) |
| | 4200741 | Motor Pkg, Cond Fan (blade not incl.) | | 3050230 | Skt, Light M Base Sngl (See SN Breaks) |
| | | (See SN Breaks) | 59 | 2600617 | Plastic Water Line |
| 10 | 6150330 | Well Nut, .75D x .804", #10-32 | 60 | 6220470 | Fill Tube Clamp |
| 11 | 3150650 | Condenser Fan Bracket | 61 | 1607700 | Water Inlet Tube |
| 12 | 6240350 | Fender Washer, .25x1.25x.06 | 62 | 2605411 | Water inlet Tube extension, 2.06" |
| 13 | 6201280 | Machine Screw, #10-32 x 1-1/4" | 63 | 6120450 | Locking Cable Tie 9.7" BLK |
| 14 | 6200490 | Screw, #8-32 x 3/8" Slotted Hex T25 | 64 | 3013820 | Fill Tube Heater |
| 15 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 65 | 3140390 | Icemaker Rudder Arm |
| 16 | 4151272 | Cabinet Hinge Assy, Upper LH | 66 | 4200522 | Icemaker Assembly |
| 17 | 4151472 | Door Hinge Assy, Top LH | 67 | 6201000 | Screw #8-32X3/8 Thread Forming |
| 18 | 3541018 | Top Cabinet Hinge Cover, LH | 68 | 4202820 | Ice Bucket Main Frame Assembly |
| 19 | 4324250 | Cbnt Hng Assy, Upr RH (See SN Breaks) | 69 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 00 | 4325070 | Cbnt Hng Assy, Upr RH (See SN Breaks) | 70 | 4220400 | Auger Motor Assy (Incl motor & switches) |
| 20 | 0168680 | Shim - Hinge | 71 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 21 | 3541017 | Top Cabinet Hinge Cover, RH | 72 | 3082060 | Defrost Terminator |
| 22 | 6110540 | Bolt, #10-24 x 1/2" Flat Socket HD | 73 74 | 3014350 | Thermistor |
| 23 24 | 6200390 6200140 | Screw, #6 x 3/8" T25 Flat Head PH | 75 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 2 4 25 | 4110353 | Screw, #8-15 x 3/8" Truss HD Base Assy (w/rollers) | /3 | 3013540 3070170 | Drain Tube Heater (See SN Breaks) Drain Tube Heater (See SN Breaks) |
| 26 | 4110333 | Base Rear Roller Assy | 76 | 4190210 | Fre Drain Trough Assy (See SN Breaks) |
| 27 | 6200010 | Screw, #10-12 x 3/4" Pan HD | '0 | 4190290 | Fre Drain Trough Assy (See SN Breaks) |
| 28 | 3550560 | Straight Pin, Base Assy312" x 2.88" | 77 | 4323200 | Freezer Drain Trough Heater Assy |
| 29 | 3450620 | Canoe Clip | 78 | 1601400 | Drain Tube, Wire - 1/2" x 72" |
| 30 | 3421240 | Cabinet Roller (Single) | 79 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 31 | 3570050 | Leveling Leg, #18-3/8 x 1" | 80 | 6120050 | Tube Clamp, Plastic, 5/8" |
| 32 | 6110580 | Adjusting Screw | 81 | 6120210 | U-Clamp, 5/8" |
| 33 | 4151281 | Cabinet Hinge Assy, Lower RH | 82 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| | 4151282 | Cabinet Hinge Assy, Lower LH | 83 | 4280930 | Fre Evap Fan Shrd (See SN Breaks) |
| 34 | 4151241 | Door Hinge, Bottom RH | | 4281350 | Fre Evap Fan Shrd (See SN Breaks) |
| | 4151242 | Door Hinge, Bottom LH | 84 | 6120380 | U-Type Clip |
| 35 | 6110070 | Bolt, 1/4-20x3/4 Spinlock Zinc | 85 | 3150060 | Fan Blade; Freezer; 5 prop; 5-1/2" |
| 36 | 4201111 | Door Closer Assy, RH | 86 | 6200060 | Screw, #8-32 x 1/2" Pan HD |
| | 4201112 | Door Closer Assy, LH | 87 | 6150160 | Nut, #8-32 Hex |
| 37 | 0183111 | Door Closer Arm - RH | 88 | 6200060 | Screw, #8-32 x 1/2" Pan HD |
| | 0183112 | Door Closer Arm - LH | 89 | 4200160 | Freezer Fan Mtr Cmpnts (Blade not Incl.) |
| 38 | 3421300 | Door Closer Housing | 90 | 4200170 | Refrig. Fan Mtr Cmpnts (Blade not Incl.) |
| 39 | 3450530 | Door Closer Spring | 91 | 0211620 | Refrigerator Fan Brkt (See SN Breaks) |
| | 3450710 | Low Pull Door Closer Spring | | 0212520 | Refrigerator Fan Brkt (See SN Breaks) |
| 40 | 3421290 | Door Closer Linkage | 92 | 3220250 | Grommet, 3/16" x 7/16" x 9/32" |
| 41 | 0165980 | Door Closer Spring Retainer | 93 | 3520410 | Brass Insert, Fan |
| 42 | 3421260 | Door Closer Bearing | 94 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 43 | 3450570 | Door Closer Cushion | 95 | 3150640 | Fan blade, Ref/Fre Evap. |
| 44 | 0165970 | Door Closer Guide Support | 96 | 4161570 | Refrig. Fan Shroud Assy |
| 45 | 3421310 | Door Closer Guide | 97 | 6220540 | Screw Grommet / Stand-off |
| 46 | 0166360 | Door Stop Cushion Retainer | 98 | 3082140 | Light Terminator |
| 47 | 6180010 | Pop Rivet, 1/8" | 99 | 6180010 | Pop Rivet, 1/8" |
| 48 | DS90 | Door Stop - 90 Degree | 100 | 6201010 | Screw, #8-15 x 2" Pan Head |
| | DS105 | Door Stop - 105 Degree | | | |
| 49 | 3450560 | E-Ring, 7/16" | | (CO | NTINUED ON PAGE 8-90) |

690 MECHANICAL VIEW (1of 2)

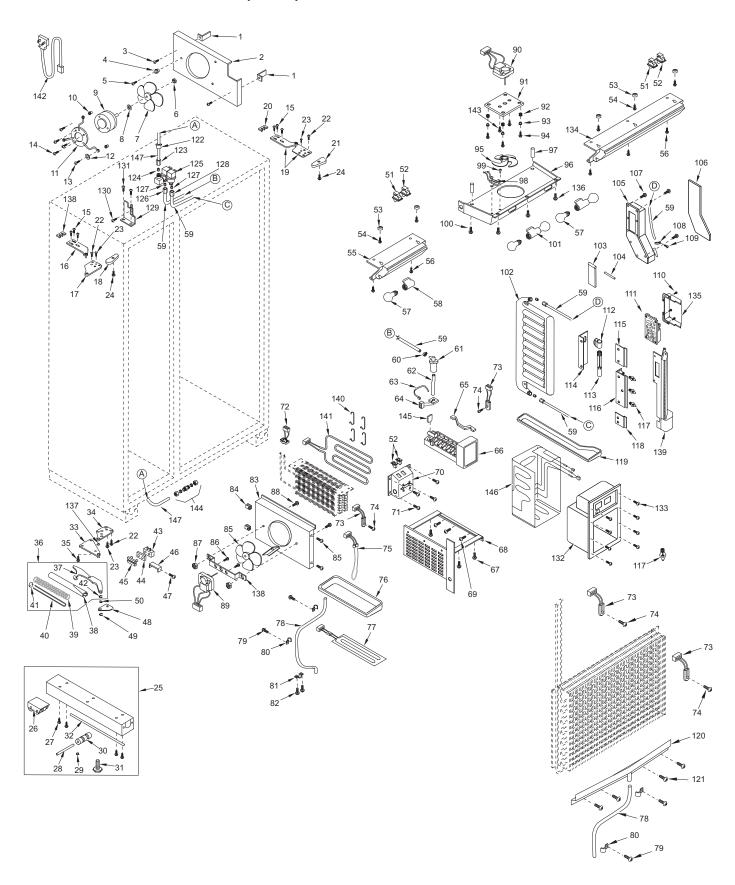




690 MECHANICAL PARTS LIST (2 of 2)

| | _ | | | ' | , |
|------|---------|--|------|---------|---|
| Ref# | Part # | <u>Description</u> | Ref# | Part # | <u>Description</u> |
| | (CON | TINUED FROM PAGE 8-88) | 124 | 3520390 | Compression Fitting |
| | | | 125 | 3090280 | Dual Water Valve |
| 101 | 3050180 | Light Socket, Double (See SN Breaks) | 126 | 3520380 | Compression Nut |
| | 3050250 | Sckt, Light M Base Dbl (See SN Breaks) | 127 | 3520050 | Brass Insert, Solenoid |
| 102 | 4181710 | Water Resrvr Tank Assy (Incl water lines) | 128 | 3520390 | Compression Fitting |
| 103 | 3515940 | Mullion Chute Door | 129 | 0167830 | Solenoid Bracket |
| 104 | 3421360 | Chute Door Rod | 130 | 6200060 | Screw, #8-32 x 1/2" Pan HD |
| 105 | 4181230 | Ice Chute/Water Nozzle Assembly | 131 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 106 | 3411530 | Ice Chute Cover | 132 | 4200960 | Door Dispenser Assembly |
| 107 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 133 | 6200850 | Screw, #8 x 3/4" PH FH Hi-lo |
| 108 | 6120120 | Tube Clamp, 3/8" Stl w/nut | 134 | 4160941 | Ref. Front Panel Assy (See SN Breaks) |
| 109 | 6200330 | Screw, #8-18 x 3/8" Pan Head | | 4161841 | Ref. Front Panel Assy (See SN Breaks) |
| 110 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 135 | 3413380 | Control Enclosure (See SN Breaks) |
| 111 | 4202810 | Cntrl Brd Pkg-Dual/Disp (See SN Breaks) | | 3413810 | Control Enclosure (See SN Breaks) |
| | 4203530 | Cntrl Brd Pkg-Dual/Disp(See SN Breaks) | 136 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 112 | 3050010 | Light Socket, 3/4 Single (See SN Breaks) | 137 | 3421270 | Hinge Bearing, 3/8" x 5/8" |
| | 3050220 | Socket, Light Base Sngl (See SN Breaks) | 138 | 0232770 | Fan Bracket, Freezer (See SN Breaks) |
| 113 | 3030040 | Light Bulb, Long/Narrow; 40 watt | | 0234360 | Fan Bracket, Freezer (See SN Breaks) |
| 114 | 0169910 | Bracket, Display Light (See SN Breaks) | 139 | 4160932 | Vertical Cntrl Pnl Assy (See SN Breaks) |
| | 0212790 | Bracket, Display Light (See SN Breaks) | | 4161462 | Vertical Cntrl Pnl Assy (See SN Breaks) |
| 115 | 0212270 | Control Panel Retainer, Upper | 140 | 1801100 | Heater Clip |
| 116 | 0212280 | Control Panel Retainer, Mid | 141 | 4323190 | Defrost Heater Assy (See SN Breaks) |
| 117 | 3030070 | Light Bulb, 7W | | 4324500 | Defrost Heater Assy (See SN Breaks) |
| 118 | 0212290 | Control Panel Retainer, Lower | 142 | 4321820 | Power Cord |
| 119 | 0212410 | Mullion Trough | 143 | 6110270 | Bolt, #10-32 x 1/4" RD HD |
| 120 | 4190160 | Drain Trough Assembly (See SN Breaks) | 144 | 3520250 | Water Inlet Fitting Assy |
| | 0260550 | Drain Trough Assembly (See SN Breaks) | 145 | 3140360 | Fill Cup Plug |
| 121 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd | 146 | 4323180 | Glass Well Heater (See SN Breaks) |
| 122 | 3024010 | Heat Shrink Spray Cvr (Also order 6120180) | | 4324680 | Glass Well Heater (See SN Breaks) |
| 123 | 3520390 | Compression Fitting | 147 | 2604165 | Water Inlet Line, Copper |
| | | | | | |

690 MECHANICAL VIEW (2of 2)

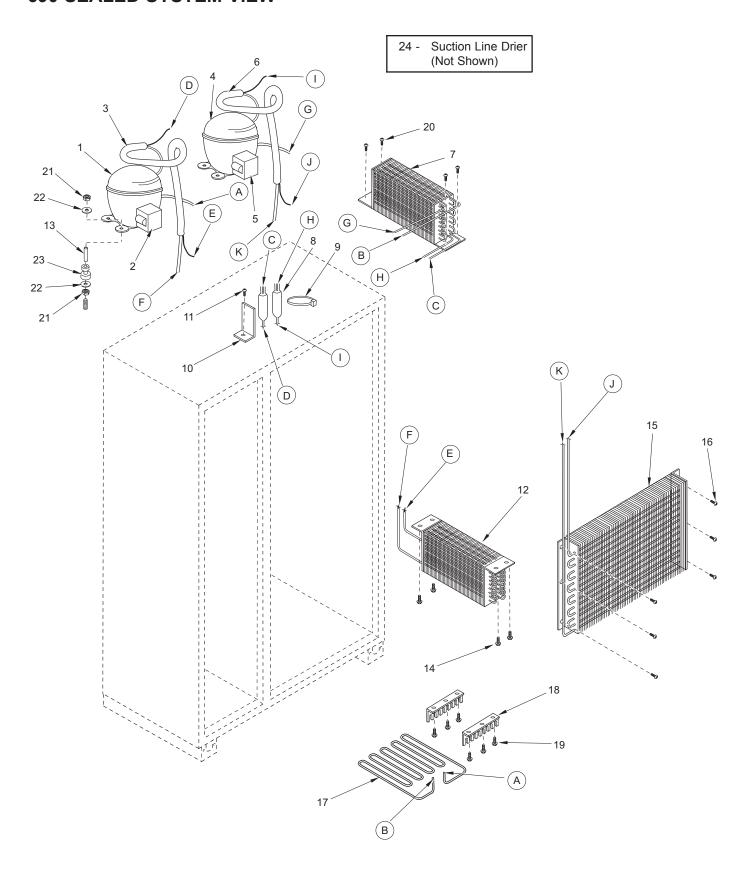




690 SEALED SYSTEM PARTS LIST

| Ref# | Part # | <u>Description</u> |
|------|---------|---|
| 1 | 4202250 | Compressor, Freezer (DA73) (See SN Breaks) |
| | 4202280 | Compressor, Freezer (EMI60HER) (See SN Breaks) |
| 2 | 3111041 | Relay, (PTH490D-AS100) (Used with DA73 Compressor) |
| | 3111460 | Relay, (1351408) (Used with EMI60HER Compressor) |
| | 3111430 | Overload, (4TM419MFB) (Used with DA73 Compressor) |
| | 3111470 | Overload, (4TM757NFB) (Used with EMI60HER Compressor) |
| | 3111070 | Running Capacitor, (12Mf) (Used with DA73 Compressor) |
| 3 | 4251340 | Heat Exchanger, Freezer |
| 4 | 4201880 | Compressor, Refrig. (EMI30HER) |
| 5 | 3111370 | Relay, (1351400 - For EMI30HER Comp) |
| | 3111410 | Overload, (4TM734LFB - For EMI30HER Comp) |
| 6 | 4251300 | Heat Exchanger, Refrigerator |
| 7 | 3120330 | Condenser, Dual |
| 8 | 3014230 | Filter-Drier, High Side |
| 9 | 6120170 | Locking Cable Tie, Red, 11-1/2" |
| 10 | 0168040 | Drier Bracket |
| 11 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 12 | 4211450 | Fre Evap Assy (Incl heat exch. & electricals) (See SN Breaks) |
| | 4211650 | Fre Evap Assy (Incl heat exch. & electricals) (See SN Breaks) |
| 13 | 6160030 | Spacer, 5/16 x 7/16 x 5/8" |
| | 6160070 | Sleeve, 5/16 x 7/16 x 7/8" |
| 14 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 15 | 3130260 | Evaporator, Refrig. |
| 16 | 6201270 | Screw, #8-18 x 5/8" PH PN SS-Gnd |
| 17 | 2600138 | Drain Pan Heater Loop |
| 18 | 3421410 | Drain Pan Heater Loop Support |
| 19 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 20 | 6200010 | Screw, #10-12 x 3/4" Pan HD |
| 21 | 6150220 | Nut, 5/16-18 Hex Zinc |
| 22 | 6240050 | Flat Washer, 5/16" |
| 23 | 3150010 | Rubber Grommet, Small, 5/8" |
| | 3150170 | Rubber Grommet, Large, 15/16" |
| 24 | 3014100 | Suction Line Drier (Service Only) |

690 SEALED SYSTEM VIEW

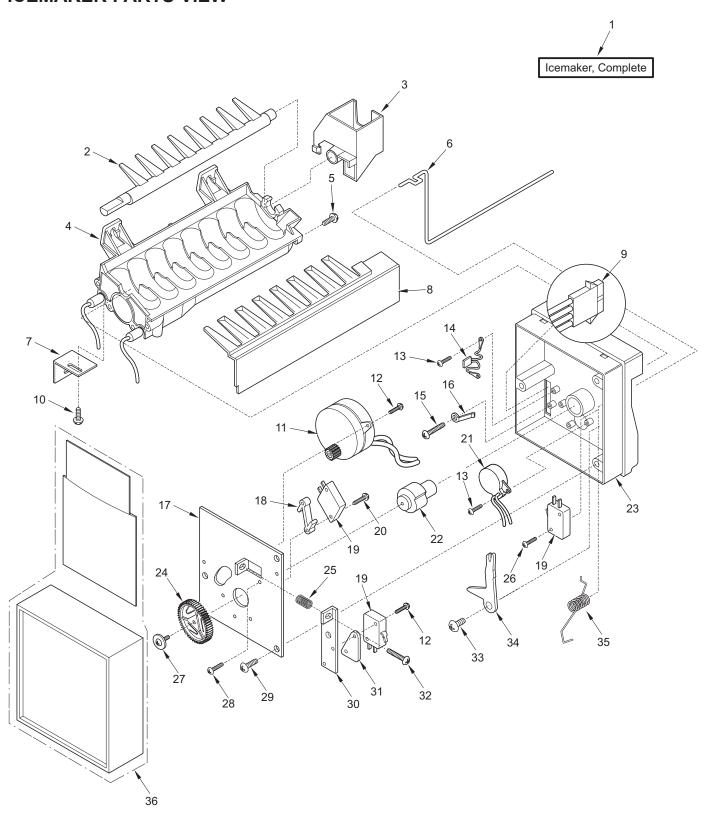




ICEMAKER PARTS LIST

| Ref# | Part # | Description |
|------|----------|---|
| 1 | 4200521 | Icemaker Assembly, Complete - (Models 601F, 632, 642) |
| | 4200522 | Icemaker Assembly, Complete - (Models 611, 650, 680, 690) |
| 2 | 75107431 | Ice Ejector |
| 3 | 75142606 | Bearing/Inlet - (Models 601F, 632, 642) |
| | 75107414 | Bearing/Inlet - (Models 611, 650, 680, 690) |
| 4 | 75107417 | Mold Body Assy. (Includes Mold Heater) |
| 5 | 75107448 | Screw |
| 6 | 75142604 | Ice Level Arm, Short - (Models 601F, 632, 642) |
| | 75142605 | Ice Level Arm, Long - (Models 611, 650, 680, 690) |
| | 3140330 | Ice Level Arm / Rudder (Not Shown) - (Models 611, 650) |
| | 3140400 | Ice Level Arm / Rudder (Not Shown) - (Models 680, 690) |
| 7 | 75107426 | Bracket, Mounting |
| 8 | 75129507 | Ice Stripper |
| 9 | 75107424 | Harness, Wire |
| 10 | 75107460 | Screw |
| 11 | 75107404 | Drive Motor |
| 12 | 75107446 | Screw |
| 13 | 75140588 | Screw |
| 14 | 75107405 | Thermal Cut-out |
| 15 | 75107442 | Screw |
| 16 | 75107408 | Clamp |
| 17 | 75107438 | Plate, Mounting |
| 18 | 75107452 | Spacer |
| 19 | 75107401 | Switch |
| 20 | 75107451 | Screw |
| 21 | 75056861 | Thermostat |
| 22 | 75107436 | Cam |
| 23 | 75107416 | Support |
| 24 | 75107419 | Gear, Timing |
| 25 | 75107443 | Spring, Fill Adjust |
| 26 | 75140586 | Screw |
| 27 | 75107459 | Screw |
| 28 | 75107453 | Screw |
| 29 | 75140589 | Screw |
| 30 | 75107457 | Plate, Valve Switch |
| 31 | 75107456 | Insulator, Valve Switch |
| 32 | 75107455 | Screw |
| 33 | 75107449 | Screw |
| 34 | 75107430 | Lever Arm |
| 35 | 75140584 | Spring, Shut-off |
| 36 | 75142601 | Cover |

ICEMAKER PARTS VIEW



| Parts Lists & Exploded Views | 600 Series SUB-ZERO |
|------------------------------|---------------------|
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SECTION 9

TROUBLESHOOTING GUIDE

For units starting with serial #1810000



TROUBLESHOOTING GUIDES

This section of the manual contains the Error Code Troubleshooting Guide to be referenced if a 600 Series unit, starting with serial #1810000, experiences temperature problems and/or Error Codes appear during Diagnostic Mode. The General Troubleshooting Guide that follows covers all problems that a 600 Series may experience. This is followed by Sealed System Diagnostics Tables along with a Temperature/Low Side Pressure Chart, to be referenced if the sealed system must be entered. The last entry in this section is the Membrane Switch/Ribbon Cable Test Procedure.

HOW TO USE THE ERROR CODE TROUBLESHOOTING GUIDE

Error Codes are registered if a unit experiences thermistor or defrost system errors. These types of errors can lead to a unit experiencing temperature problems. If Error Codes are registered, they will appear when Diagnostic Mode is initiated.

To initiate Diagnostic Mode, press and hold <u>either</u> COLDER key, then press the UNIT ON/OFF key, then release both keys. Now, check to see if Error Codes are present, being sure to toggle through all error and temperature readings by pressing <u>either</u> COLDER key or <u>either</u> WARMER key. (See Error Code Table Below)

NOTE: Currently, Error Codes are registered because of thermistor or defrost system errors only. When subsequent software and electrical changes occur, more error codes will be added and the Error Code Troubleshooting Guide will be expanded.

If Error Codes appear during Diagnostic Mode, follow the Error Code Troubleshooting Guide on the following page. The left column of the troubleshooting guide lists the error codes. The information in the right column explain what tests to perform and/or what action to take to correct the error.

NOTE: If error codes are observed in diagnostic mode, a non-flashing SERVICE annunciator will appear on the LCD when Diagnostic Mode ends, indicating error codes are still registered. To clear the non-flashing SERVICE annunciator and the error codes, the problem must be corrected and the unit must be ON. Then, press and hold the Door Ajar Alarm Bell ON/OFF key for 15 seconds. The control will emit a short "beep" when the SERVICE annunciator and error codes are cleared.

| | Error Code Table | | | | |
|------|---|--|--|--|--|
| CODE | INDICATION | | | | |
| 05 | Refrig. Cabinet Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | | | |
| 06 | Refrig. Evaporator Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | | | |
| 07 | Freezer Cabinet Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | | | |
| 08 | Freezer Evaporator Thermistor read open or shorted for 10+ seconds, or repeatedly read erratic temp's | | | | |
| 20 | Defrost Under-heat with No Voltage Feedback Through Gray/White Wire at Defrost Start | | | | |
| 21 | Defrost Overheat | | | | |
| 22 | No Voltage Feedback Through Gray/White Wire at Defrost Start | | | | |
| 23 | Defrost Overheat with No Voltage Feedback through Gray/White Wire at Defrost Start | | | | |
| 24 | Defrost Under-heat | | | | |



ERROR CODE TROUBLESHOOTING GUIDE

| ERROR CODE | TEST / ACTION |
|------------|--|
| 05 | a. Check refrigerator compartment thermistor electrical connections and continuity from thermistor to J1 on control board. Reconnect / repair connections. b. Check resistance of refrigerator compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| 06 | a. Check refrigerator evaporator thermistor electrical connections and continuity from thermistor to J1 on control board. Reconnect / repair connections. b. Check resistance of refrigerator evaporator thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| 07 | a. Check freezer compartment thermistor electrical connections and continuity from thermistor to J1 on control board. Reconnect / repair connections. b. Check resistance of freezer compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| 08 | a. Check freezer evaporator thermistor electrical connections and continuity from thermistor to J1 on control board. Reconnect / repair connections. b. Check resistance of freezer evaporator thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| 20 | a. With a cold evaporator (< 10°F), initiate Manual Defrost. If compressor starts 5 minutes after defrost is initiated, check Grey/White wire connections and continuity from defrost heater to J4-4 on control board. Reconnect / repair Grey/White wire &/or electrical connections. b. Check for proper ohm readings of defrost heater. Replace heater if defective. c. Check defrost terminator and its electrical connections, Reconnect / repair bad connections or replace terminator if defective. d. Initiate Manual Defrost, check for 115V AC at E2 on control board. If no voltage, replace board. e. Initiate Manual Defrost, check for 115V AC from E2 (Blue Wire) on control board to defrost terminator. Reconnect / repair blue wire &/or electrical connections. f. Reference wiring diagram to identify components in same White wire circuit as defrost heater. Check all White wire electrical connections and continuity from defrost heater to J7-8 on control board. |
| 21 | a. Check for proper mounting and location of freezer evaporator thermistor and defrost heater. Remount correctly. b. Check for correct wire connection at control board, Blue wire at E2 on control board. If connected to wrong pin, reconnect correctly. c Check for electrical short of Blue wire to another circuit. Repair Blue wire &/or electrical connections. d. Check for proper operation of defrost terminator (Cut-in 30°F/Cut-out 55°F. For model 601F ONLY: Cut-in 30°F/Cut-out 70°F). Replace if defective. |
| 22 | a. Initiate Manual Defrost. If compressor starts 5 minutes after defrost is initiated, check Grey/White wire connections and continuity from defrost heater to J4-4 on control board. Reconnect / repair Grey/White wire &/or electrical connections. |
| 23 | a. Check for proper mounting and location of freezer evaporator thermistor and defrost heater. Remount correctly. b. Check for correct wire connection at control board, Blue wire at E2 on control board. If connected to wrong pin, reconnect correctly. c Check for electrical short of Blue wire to another circuit. Repair Blue wire &/or electrical connections. d. Initiate Manual Defrost. If compressor starts 5 minutes after defrost is initiated, check Grey/White wire connections and continuity from defrost heater to J4-4 on control board. Reconnect / repair Grey/White wire &/or electrical connections. |
| 24 | a. Check for proper ohm readings of defrost heater. Replace heater if defective.b. Check for proper mounting and location of freezer evaporator thermistor and defrost heater. Remount correctly. |



HOW TO USE THE GENERAL TROUBLESHOOTING GUIDE

The General Troubleshooting Guide Table of Contents on the following page indicates how the General Trouble Shooting Guide is arranged. Match the description of the problem the unit is experiencing with those in the table. To the left of the problem description is a letter. Locate that letter in the left column of the Troubleshooting Guide. The information in the center column of the Troubleshooting Guide identifies possible causes for the problem. The information in the right column explains the tests to perform and/or what action to take to correct the problem.

For Problems "A" through "H":

- 1. Begin troubleshooting by observing the compartment set points.
- 2. If the set-points are normal, initiate Diagnostic Mode by pressing and holding <u>either</u> COLDER key, then press the UNIT ON/OFF key, then release both keys.
- When Diagnostic Mode is initiated, check to see if "Error Codes" are present, being sure to toggle through all the
 error and temperature readings by pressing <u>either</u> COLDER key or <u>either</u> WARMER key. (See Thermistor
 Location Code Tables below.)
- 4. If Error Codes are present, refer to Error Code Troubleshooting Guide on previous pages.
- If there are no Error Codes, initiate Manual Component Activation Mode (which lasts for 5 minutes) by pressing and holding the <u>desired</u> compartment COLDER and UNIT ON/OFF keys for 10 seconds, then observe the evaporator temperatures.
 - **NOTE:** Verify that the compressor is operating before observing evaporator temperatures. If the problem is in the refrigerator section, the refrigerator door must be left open for 5 minutes with the compressor running.
- 6. After observing the evaporator temperatures as instructed above, take note of the "Pointers" in the first column of the troubleshooting guide under problems "A" through "D". The "Pointers" list what possible causes to check based on the evaporator temperatures observed.

| Thermistor Location Code Tables | | | | | |
|------------------------------------|------|--------------------------|------|---------------------|------|
| MODEL 611, 632, 642, 650, 680, 690 | | MODEL 601R & 601RG | | MODEL 601F | |
| THERMISTOR LOCATION | CODE | THERMISTOR LOCATION | CODE | THERMISTOR LOCATION | CODE |
| Freezer Compartment | F | Refrigerator Compartment | r | Freezer Compartment | F |
| Refrigerator Compartment | r | Refrigerator Evaporator | rΕ | Freezer Evaporator | FE |
| Freezer Evaporator | FE | | | | |
| Refrigerator Evaporator | rΕ | | | | |

For All Problems:

If the unit's temperature history is needed to help diagnose the problem, initiate Temperature Log Recall Mode as described below. This allows the preceding fourteen days of the unit's temperature history to be observed.

- a. To View Compartment Temperature History Only: Begin with the unit ON. Now, press and hold the desired compartment WARMER key, then press the UNIT ON/OFF key, then release both keys.
- b. *To View Compartment or Evaporator Temperature History:* Begin with the unit in Diagnostic Mode. While in Diagnostic Mode, toggle through the readings until the desired thermistor temperature is displayed on the LCD. Now, press the WARMER key for that compartment and the UNIT ON/OFF key simultaneously.



GENERAL TROUBLESHOOTING GUIDE TABLE OF CONTENTS

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| Χ. | Door or Drawers Uneven | 9-18 |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|---|---|
| A.) Warm Freezer Temperature with "SERVICE" Flashing Pointers: | Door Ajar a. Food product obstruction b. Door/cabinet hinge problem | a. Move obstruction. b. Check and replace hinge if defective. |
| Evaporator temp -20°F or lower, see: | Condenser Air Flow | |
| Door ajar Lights ON w/door closed Evaporator fan fault Compartment thermistor misread Evaporator heavily frosted Sealed system fault - leak or partial restriction 2. Evaporator. Temp. between -19°F & 0°F, see: | a. Dirty condenser b. Condenser fan blade obstructed or blade is loose c. Condenser fan motor disconnected d. Condenser fan motor defective e. No power from control board to con- | a. Clean condenser. b. Remove obstruction or tighten nut on motor shaft. c. Check electrical connections from motor to J7-1 on control board, or from motor to compressor on single compressor models. Reconnect / repair connections. d. Check for 115V AC to motor, replace motor if defective. e. Check for 115V AC at J7-1 on control board |
| Condenser Air Flow Compartment thermistor misread | denser fan (Does not apply to single compressor models) (NOTE: A compressor must be running) | (with compressor running). Replace board if defective. |
| Sealed system fault, leak | Light ON with Door Closed | |
| 3. Evaporator. Temp. 0°F or higher, see: Power to compressor fault, Sealed system fault, leak, restriction or inefficient com- | a. Switch depressor missing or bent, not depressing light switch b. Faulty light switch | a. Replace/straighten switch depressor.b. Check operation of light switches, lights off when switch is depressed. Replace switch if defective. |
| pressor | Evaporator Fan Fault | |
| NOTE: "Pointers" do not apply to cabinet initial pulldown from ambient temperatures. NOTE: To clear flashing SER-VICE annunciator after repairs, power OFF, then back ON. | a. Switch depressor missing or bent, not depressing fan switch b. Fan blade obstructed or out of position c. Faulty fan switch (NOTE: A compressor must be running) d. Evaporator fan motor disconnected | a. Replace/straighten switch depressor. b. Move obstruction or reposition blade. c. Check for 115V AC to fan switch, depress fan switch and check for 115V AC from switch to motor. Replace switch if defective. d. Check electrical connections of motor. Reconnect / repair bad connections. |
| NOTE: To clear non-flashing SERVICE annunciator after repairs, press door ajar alarm bell ON/OFF key for 15 seconds. | e. Evaporator fan motor defective (NOTE: Compressor must be running) | e. Check for 115V AC at fan motor with fan switch depressed. Replace motor if defective. Trecomment 7 repair bad connections. Replace motor with fan switch depressed. |
| (Continued) | Compartment Thermistor Misread | Check resistance of compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|---|--|
| (Continued) | Evaporator Heavily Frosted | |
| A.) Warm Freezer Temperature with "SERVICE" Flashing (See Pointers on previous page) | a. Door ajar b. Evaporator fan fault c. Compartment thermistor misread d. Defrost heater or drain trough heater disconnected or faulty e. Defrost terminator disconnected or faulty. f. Defrost sense line disconnected. | a. See Door Ajar on previous page. b. See Evaporator Fan Fault on previous page. c. See Compartment Thermistor Misread on previous page. d. Check electrical connections of heaters. Reconnect / repair bad connections. Check resistance of heaters, replace if defective. e. Check electrical connections, Reconnect / repair bad connections or replace terminator if defective. f. Look for Error Codes 20, 22 or 23 or |
| | g. No power from control board to defrost circuit | Manually initiate defrost by pressing ICE key for 5 seconds. If defrost lasts exactly 5 minutes, check all connections of gray/white wire from terminator to J4-4 on control board. Reconnect / repair bad connections. g. Manually initiate defrost by pressing ICE key for 5 seconds. Check for 115V AC at E2 on control board. Replace control board if defective. |
| | Power to Compressor Fault | Initiate Manual Component Activation Mode and check for 115V AC at E7 on control board. Replace control board if defective. |
| | Sealed System Fault Sealed System Leak Sealed System Restriction Inefficient Compressor | See Sealed System Diagnostic Tables at back of Troubleshooting Guide |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|---|--|--|
| B.) Warm Freezer Temperatures without "SERVICE" Flashing | No Power to Unit | Check power to unit, plug unit in or switch supply circuit breaker ON. |
| Pointers: 1. "Sr" appears during Diagnostic | Unit Switched OFF | Check for "OFF" displayed at LCD. If off, press UNIT ON/OFF key. |
| Mode, see: • Unit in Showroom Mode 2 Evaporator temp -20°F or | Unit in Showroom Mode | Press UNIT ON/OFF key to OFF, then press and hold WARMER & COLDER keys, and press UNIT ON/OFF key. |
| lower , see: • Door ajar | Control Set Too High | Check set-point. If high, adjust. |
| Lights ON w/door closed Evaporator fan fault Compartment thermistor mis- | Warm Food Load | Check contents of freezer for warm food load. Instruct customer. |
| read • Evaporator heavily frosted • Sealed system fault - leak or | High Room Ambient | Instruct customer unit performs best between 60°F(16°C) and 90°F(32°C). |
| partial restriction | Door Ajar | |
| 3. Evaporator. Temp. between -19°F & 0°F, see: | a. Food product obstruction b. Door/cabinet hinge problem | a. Move obstruction. b. Check and replace hinge if defective. |
| Warm food load High room ambient Door ajar | Condenser Air Flow | |
| Condenser air flow Sealed system fault, leak 4. Evaporator. Temp. 0°F or high- | a. Dirty condenser b. Condenser fan blade obstructed or blade is loose c. Condenser fan motor disconnected | a. Clean condenser. b. Remove obstruction or tighten nut on motor shaft. c. Check electrical connections from motor to |
| er, see: Power To Compressor fault Sealed system fault, leak restriction or inefficient com- pressor | d. Condenser fan motor defective e. No power from control board to con- | J7-1 on control board, or from motor to compressor on single compressor models. Reconnect / repair connections. d. Check for 115V AC to motor, replace motor if defective. e. Check for 115V AC at J7-1 on control board |
| NOTE: "Pointers" do not apply to cabinet initial pulldown from ambient temperatures. | denser fan (Does not apply to single compressor models) (NOTE: A compressor must be running) | (with compressor running). Replace board if defective. |
| NOTE: To clear non-flashing | Light ON with Door Closed | |
| SERVICE annunciator after repairs, press door ajar alarm bell ON/OFF key for 15 seconds. | a. Switch depressor missing or bent, not depressing light switch b. Faulty light switch | a. Replace/straighten switch depressor.b. Check operation of light switches, lights off |
| (Continued) | | when switch is depressed. Replace switch if defective. |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|--|---|
| (Continued) | Evaporator Fan Fault | |
| B.) Warm Freezer Temperatures without "SERVICE" Flashing (See Pointers on previous page) | a. Switch depressor missing or bent, not depressing fan switch b. Fan blade obstructed or out of position c. Faulty fan switch (NOTE: A compressor must be running) d. Evaporator fan motor disconnected e. Evaporator fan motor defective (NOTE: Compressor must be running) | a. Replace/straighten switch depressor. b. Move obstruction or reposition blade. c. Check for 115V AC to fan switch, depress fan switch and check for 115V AC from switch to motor. Replace switch if defective. d. Check electrical connections of motor. Reconnect / repair bad connections. e. Check for 115V AC at fan motor with fan switch depressed. Replace motor if defective. |
| | Compartment Thermistor Misread | Check resistance of compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| | Evaporator Heavily Frosted | |
| | a. Door ajar b. Evaporator fan fault c. Compartment thermistor misread d. Defrost heater or drain trough heater disconnected or faulty e. Defrost terminator disconnected or faulty. f. Defrost sense line disconnected. g. No power from control board to defrost circuit | a. See Door Ajar on previous page. b. See Evaporator Fan Fault on previous page. c. See Compartment Thermistor Misread on previous page. d. Check electrical connections of heaters. Reconnect / repair bad connections. Check resistance of heaters, replace if defective. e. Check electrical connections, Reconnect / repair bad connections or replace terminator if defective. f. Look for Error Codes 20, 22 or 23 or Manually initiate defrost by pressing ICE key for 5 seconds. If defrost lasts exactly 5 minutes, check all connections of gray/white wire from terminator to J4-4 on control board. Reconnect / repair bad connections. g. Manually initiate defrost by pressing ICE key for 5 seconds. Check for 115V AC at E2 on control board. Replace control board if defective. |
| | Power to Compressor Fault | Initiate Manual Component Activation Mode and check for 115V AC at E7 on control board. Replace control board if defective. |
| | Sealed System Fault Sealed System Leak Sealed System Restriction Inefficient Compressor | See Sealed System Diagnostic Tables at back of Troubleshooting Guide |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|---|---|--|
| C. Warm Refrigerator Temperatures with "SERVICE" Flashing | Door Ajar a. Food product obstruction b. Door/cabinet hinge problem | a. Move obstruction. b. Check and replace hinge if defective. |
| Refrigerator door must be open and compressor running for five minutes. 1. "EE" appears in place of refrigerator evap. temperature, see: Evaporator thermistor disconnected or shorted 2. Evaporator temp 15°F or lower within 5 minutes w/ door open, see: Door ajar Lights stay ON | a. Dirty condenser b. Condenser fan blade obstructed or blade is loose c. Condenser fan motor disconnected d. Condenser fan motor defective e. No power from control board to condenser fan (Does not apply to single compressor models) (NOTE: A compressor must be running) | a. Clean condenser. b. Remove obstruction or tighten nut on motor shaft. c. Check electrical connections from motor to J7-1 on control board, or from motor to compressor on single compressor models. Reconnect / repair connections. d. Check for 115V AC to motor, replace motor if defective. e. Check for 115V AC at J7-1 on control board (with compressor running). Replace board if defective. |
| Evaporator fan fault Compartment or evaporator thermistor misread Evaporator heavily frosted Sealed system fault - leak or partial restriction Evaporator. Temp. cannot pull | a. Switch depressor missing or bent, not depressing light switch b. Faulty light switch | a. Replace/straighten switch depressor. b. Check operation of light switches, lights off when switch is depressed. Replace switch if defective. |
| below 30°F within 5 minutes w/door open, see: Condenser Air Flow Compartment or evaporator thermistor misread Sealed system fault, leak or inefficient compressor Evaporator. Temp. 35°F or higher after 5 minutes w/door open, see: Condenser Air Flow Power to compressor fault Sealed system fault, leak, | Evaporator Fan Fault a. Switch depressor missing or bent, not depressing fan switch b. Fan blade obstructed or out of position c. Faulty fan switch (NOTE: A compressor must be running) d. Evaporator. fan motor disconnected e. Evaporator fan motor defective (NOTE: Compressor must be running) | a. Replace/straighten switch depressor. b. Move obstruction or reposition blade. c. Check for 115V AC to fan switch, depress fan switch and check for 115V AC from switch to motor. Replace switch if defective. d. Check electrical connections of motor. Reconnect / repair bad connections. e. Check for 115V AC at fan motor with fan switch depressed. Replace motor if defective. |
| restriction or inefficient compressor NOTE: "Pointers" do not apply to cabinet initial pulldown from ambient temperatures. NOTE: To clear flashing SER-VICE annunciator after repairs, power OEE then back ON | Evaporator Thermistor Disconnected or Shorted Compartment or Evaporator Thermistor | Check for "EE" & "rE" in diagnostic mode. Check refrigerator evaporator thermistor electrical connections from thermistor to J1 on control board. Reconnect / repair connections. Check resistance of refrigerator evaporator thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. Check resistance of refrigerator compart- |
| power OFF, then back ON. NOTE: To clear non-flashing SERVICE annunciator after repairs, press door ajar alarm bell ON/OFF key for 15 seconds. (Continued) | Misread Evaporator Heavily Frosted a. Door or drawer ajar b. Evaporator fan fault | ment and evaporator thermistors for 30,000 to 33,000 ohms at 32°F. Replace if defective. a. See Door Ajar above. b. See Evaporator Fan Fault above. |
| (20111111111111111111111111111111111111 | c. Thermistor misread | c. See Thermistor Misread above. |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|--|---|
| (Continued) C. Warm Refrigerator | Power to Compressor Fault | Check for 115V AC E6 on control board. Replace control board if defective. |
| Temperatures with "SERVICE" Flashing | Sealed System Fault | See Sealed System Diagnostic Tables at back of Troubleshooting Guide |
| (See Pointers on previous page) | Sealed System LeakSealed System RestrictionInefficient Compressor | back of moubleshooting Guide |
| D. Warm Refrigerator Temperatures without "SERVICE" Flashing | No Power to Unit | Check power to unit, plug unit in or switch supply circuit breaker ON. |
| Pointers: | Unit Switched OFF | Check for "OFF" displayed at LCD. If off, press UNIT ON/OFF key. |
| Refrigerator door must be open and compressor running for <u>five</u> <u>minutes</u> . | Unit in Showroom Mode | Press UNIT ON/OFF key to OFF, then press and hold WARMER & COLDER keys, and press UNIT ON/OFF key. |
| "Sr" appears during Diagnostic Mode, see: | Control Set Too High | Check set-point. If high, adjust. |
| Unit in Showroom Mode2 Evaporator temp 15°F or lower | Warm Food Load | Check contents of refrigerator for warm food load. Instruct customer. |
| within 5 minutes w/ door open, see: Door ajar | High Room Ambient | Instruct customer unit performs best between 60°F(16°C) and 90°F(32°C). |
| Lights stay ON Evaporator fan fault | Door Ajar | |
| Compartment or evaporator thermistor misread Evaporator heavily frosted | a. Food product obstruction b. Door/cabinet hinge problem | a. Move obstruction. b. Check and replace hinge if defective. |
| Sealed system fault - leak or partial restriction | Condenser Air Flow | |
| 3. Evaporator Temp. cannot pull below 30°F within 5 minutes w/door open, see: Warm food load High room ambient | a. Dirty condenser b. Condenser fan blade obstructed or blade is loose c. Condenser fan motor disconnected | a. Clean condenser. b. Remove obstruction or tighten nut on motor shaft. c. Check electrical connections from motor to J7-1 on control board, or from motor to com- |
| Door ajar Condenser air flow Sealed system fault, leak | d. Condenser fan motor defective | pressor on single compressor models. Reconnect / repair connections. d. Check for 115V AC to motor, replace motor |
| 4. Evaporator Temp. 35°F or higher after 5 minutes w/door open, see: Condenser Air Flow | e. No power from control board to condenser fan (Does not apply to single compressor models) (NOTE: A compressor must be running) | if defective. e. Check for 115V AC at J7-1 on control board (with compressor running). Replace board if defective. |
| Power to compressor fault Sealed system fault, leak, restriction or inefficient com- | Light ON with Door Closed a. Switch depressor missing or bent, not | a. Replace/straighten switch depressor. |
| pressor NOTE: "Pointers" do not apply to cabinet initial pulldown from ambient temperatures. | depressing light switch b. Faulty light switch | b. Check operation of light switches, lights off when switch is depressed. Replace switch if defective. |
| NOTE: To clear non-flashing SERVICE annunciator after repairs, press door ajar alarm bell ON/OFF key for 15 seconds. (Continued) | | |

| PROBLEM | POSSIBLE CAUSE | TEST / ACTION | |
|--|---|---|--|
| (Continued) | Evaporator Fan Fault | | |
| D. Warm Refrigerator Temperatures without "SERVICE" Flashing (See Pointers on previous page) | a. Switch depressor missing or bent, not depressing fan switch b. Fan blade obstructed or out of position c. Faulty fan switch (NOTE: A compressor must be running) d. Evaporator fan motor disconnected e. Evaporator fan motor defective (NOTE: Compressor must be running) | a. Replace/straighten switch depressor. b. Move obstruction or reposition blade. c. Check for 115V AC to fan switch, depress fan switch and check for 115V AC from switch to motor. Replace switch if defective. d. Check electrical connections of motor. Reconnect / repair bad connections. e. Check for 115V AC at fan motor with fan switch depressed. Replace motor if defective. | |
| | Compartment or Evaporator Thermistor Misread | Check resistance of refrigerator compartment and evaporator thermistors for 30,000 to 33,000 ohms at 32°F. Replace if defective. | |
| | Evaporator Heavily Frosted | | |
| | a. Door or drawer ajar b. Evaporator fan fault c. Thermistor misread | a. See Door Ajar on previous page.b. See Evaporator Fan Fault above.c. See Thermistor Misread above. | |
| | Power to Compressor Fault | Check for 115V AC E6 on control board. Replace control board if defective. | |
| | Sealed System Fault | See Sealed System Diagnostic Tables at back of Troubleshooting Guide | |
| E. Warm or Normal Temperatures in Both Compartments with | High Room Ambient | Instruct customer unit performs best between 60°F(16°C) and 90°F(32°C). | |
| "SERVICE" Flashing | Condenser Air Flow | | |
| | a. Dirty condenser b. Condenser fan blade obstructed or blade is loose c. Condenser fan motor disconnected d. Condenser fan motor defective e. No power from control board to con- | a. Clean condenser. b. Remove obstruction or tighten nut on motor shaft. c. Check electrical connections from motor to J7-1 on control board, or from motor to compressor on single compressor models. Reconnect / repair connections. d. Check for 115V AC to motor, replace motor if defective. e. Check for 115V AC at J7-1 on control board | |
| | denser fan (Does not apply to single compressor models) (NOTE: A compressor must be running) | (with compressor running). Replace board if defective. | |
| | Refrigerator Evaporator Thermistor Disconnected or Shorted | Check for "EE" & "rE" in diagnostic mode. Check refrigerator evaporator thermistor electrical connections from thermistor to J1 on control board. Reconnect / repair connections. Check resistance of refrigerator evaporator thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. | |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|--|--|
| Compartments without | No Power to Unit | Check power to unit, plug unit in or switch supply circuit breaker ON. |
| "SERVICE" Flashing | Unit Switched OFF | Check for "OFF" displayed at LCD. If off, press UNIT ON/OFF key. |
| | Unit in Showroom Mode | Press UNIT ON/OFF key to OFF, then press and hold WARMER& COLDER keys, and press UNIT ON/OFF key. |
| | Control Set Too High | Check set-point. If high, adjust. |
| | Warm Food Load | Check contents of freezer for warm food load. Instruct customer. |
| | High Room Ambient | Instruct customer unit performs best between 60°F(16°C) and 90°F(32°C). |
| | Door Ajar | |
| | a. Food product obstruction b. Door/cabinet hinge problem | a. Move obstruction. b. Check and replace hinge if defective. |
| | Condenser Air Flow | |
| | a. Dirty condenser b. Condenser fan blade obstructed or blade is loose c. Condenser fan motor disconnected d. Condenser fan motor defective | a. Clean condenser. b. Remove obstruction or tighten nut on motor shaft. c. Check electrical connections from motor to J7-1 on control board, or from motor to compressor on single compressor models. Reconnect / repair connections. d. Check for 115V AC to motor, replace motor |
| | e. No power from control board to condenser fan (Does not apply to single compressor models) (NOTE: A compressor must be running) | if defective. e. Check for 115V AC at J7-1 on control board (with compressor running). Replace board if defective. |
| G. Warm or Normal Freezer Temperatures with "EE" Displayed for Freezer Temp and "SERVICE" Flashing | Freezer Compartment Thermistor Disconnected or Shorted | Check for "EE" & "F" in diagnostic mode. Check freezer compartment thermistor electrical connections from thermistor to J1 on control board. Reconnect / repair connections. Check resistance of freezer compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| H. Warm or Normal Refrigerator Temperatures with "EE" Displayed for Refrigerator Temp and "SERVICE" Flashing | Refrigerator Compartment Thermistor Disconnected or Shorted | Check for "EE" & "r" in diagnostic mode. Check refrigerator compartment thermistor electrical connections from thermistor to J1 on control board. Reconnect / repair connections. Check resistance of refrigerator compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |

| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|---|--|
| I. Product Temperature 10° or More Colder than Displayed Temperature | Compartment Thermistor Misread | Check resistance of compartment thermistor for 30,000 to 33,000 ohms at 32°F. Replace if defective. |
| J. 1. "Extremely" Cold Temperatures Displayed (1° to 7° in Refrigerator and -21° to -15° in Freezer) | Control Set to Display Celsius but Customer Thought it Was Fahrenheit | Switch unit OFF, then ON, then press & hold Bell key and UNIT ON/OFF key for 10 seconds. |
| 2. If outside US - "Extremely" Warm Temperatures Displayed (34° to 45° in Refrigerator and -5° to 5° in Freezer) | 2. If Outside US - Control Set to Display Fahrenheit but Customer Thought it Was Celsius | Switch unit OFF, then ON, then press & hold Bell key and UNIT ON/OFF key for 10 seconds. |
| K. "ICE" and "SERVICE" Flashing on LCD | Water Valve Energized Longer then Fifteen Seconds | Check icemaker area for jammed ice cube, clear jam if present. Check levelness of icemaker, level if needed. Check position of fill cup. Reposition if in ice path. Check water supply pressure; must be constant 20-100 PSI. If not, instruct customer. Check water valve operation, opens when 115V AC is applied, closes completely when 115V AC is removed. Water valve Ohms = 160. Replace if defective. |
| L. No Ice, "ICE" Displayed on LCD, but not Flashing NOTE: The Icemaker system is disabled for 45 minutes after each harvest. | Unit Has Not Run Long Enough | Freezer must be 15°F/± 3°F for icemaker to operate, approximately 24 hours after unit installation. Instruct customer. |
| | Warm Freezer Temperatures (NOTE: Freezer must be 17°F or colder for icemaker to function) | See PROBLEM A, B, E, F & G earlier in Troubleshooting Guide. |
| | Shut-off Arm Stuck in Up/Off Position | Check shut-off arm, if stuck in up/off position, correct problem. |
| (Continued) | Disconnected or Defective Water Valve | Check electrical connections and water connections at water valve, Reconnect / repair connections. Check resistance of water valve, 160 ohms. Replace if defective. |



| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|--|--|
| (Continued) | Icemaker System Fault | Bypass 45 minute dwell by pressing ICE |
| L. No Ice, "ICE" Displayed on LCD, but not Flashing NOTE: The Icemaker system is disabled for 45 minutes after each harvest. | , | ON/OFF key to OFF, then again to ON. Then, depress icemaker switch and manually start icemaker cycle by turning drive gear counterclockwise with flat-blade screwdriver. Watch cycle of icemaker and see #1, #2 & #3 below. |
| | | If icemaker starts and finishes cycle: NOTE: Icemaker will only complete 1 revolution if above 15°F/± 3°F. |
| | Disconnected or damaged electrical connections at icemaker or water valve, or defective water valve. | a. Visually inspect electrical connections at ice- maker & valve. Repair or replace connec- tion. Then, check valve operation with test cord. If valve does not open, replace valve. |
| | b. Defective Thermostat | b. Check continuity of thermostat - Open at 48° ± 6°F, Close at 15° ± 3°F. Replace thermostat if defective. |
| | c. Defective Solenoid Switch | c. With icemaker in park position, check solenoid switch terminals "C" & "NO" for continuity. Then, with icemaker ejector between 8:00 & 10:00 position, check solenoid switch terminals "C" & "NC" for continuity. If no continuity on either check, replace solenoid switch. |
| | | 2. If icemaker starts but does not finish cycle: |
| | c. Defective Holding Switch | c. With icemaker in park position, check holding switch terminals "C" & "NC" for continuity. Then, with icemaker ejector between 10:00 & 12:00 position, check holding switch terminals "C" & "NO" for continuity. If no continuity on either check, replace holding switch. |
| | d. Defective Shut-off Switch | d. With icemaker in park position, check shutoff switch terminals "C" & "NO" for continuity. Then, with icemaker ejector between 12:00 & 2:00 position, check shut-off switch terminals "C" & "NC" for continuity. If no continuity on either check, replace shut-off switch. |
| | e. Defective Mold Hearer or Thermostat | e. Check mold heater for 75-85 ohms. If outside range, replace mold body assembly. If heater checks OK, replace thermostat. |
| | | 3. If icemaker motor does NOT start: |
| | f. Shut-off Arm in up (OFF) position g. Defective Drive Motor | f. Lower shut-off arm. g. Check operation of motor with a test cord. If motor does not run, replace motor. |
| | h. Disconnected or damaged electrical connections at icemaker | h. Check for 115V to icemaker. If no power, check/repair electrical connection. |
| | i. Icemaker switch disconnected or faulty | Check power to and from icemaker switch. reconnect or repair connection. Replace switch if defective. |
| (Continued) | j. Electrical connection at control board or control board defect. | j. Check for 115V AC at J7-5 on control board. If power is present, check and repair connection. If no power, replace control board. |
| (Continued) | | control board. |

| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|--|---|--|
| (Continued) | Frozen Fill Tube | |
| L. No Ice, "ICE" Displayed on LCD, but not Flashing NOTE: The Icemaker system is disabled for 45 minutes after each harvest. | a. Water Supply Problem b. Disconnected or defective fill tube heater | a. Check water supply pressure; must be constant 20-100 PSI. If not, instruct customer. b. Check electrical connections at fill tube heater. Reconnect / repair connections. Check resistance of fill tube heater, 2300 - |
| | c. No power from control board to fill tube heater | 2900 Ohms. Replace if defective. c. Check for 115V AC at J7-3 on control board. Replace board if defective. |
| M. No Ice and "ICE" <u>Not</u> Displayed on LCD | Icemaker System Not Energized | Press ICE key. " ICE" should appear on LCD. |
| N. Icemaker produces Too much ice | Ice Level Arm/Linkage Bent or Broken | Inspect ice level arm, shut-off arm and linkage. Replace defective parts. |
| | Icemaker Faulty | With the ice level arm in the UP/OFF position, manually start icemaker by rotating the ejector blades clockwise by hand while turning the drive gear counterclockwise with a flat blade screwdriver. If icemaker motor starts with arm in the UP/OFF position, replace icemaker. |
| O. Icemaker Produces Hollow Cubes | Freezer Too Cold, Cycles Icemaker Too Soon | See PROBLEM "I" earlier in Troubleshooting Guide. |
| | Not Enough Thermal-Mastic on Icemaker Thermostat | Inspect icemaker, apply more Thermal- Mastic. |
| | Icemaker System Fault | See "Icemaker System Fault" |
| P. Icemaker Produces Small cubes | Water Supply Problem | Check water supply pressure; must be constant 20-100 PSI. If not, instruct customer. |
| | Icemaker Not Level | Check level of icemaker, adjust if needed |
| Q. Water in Ice Bucket / Clump of Ice in Ice Bucket | Low Fill Adjustment on Icemaker | Check for 100-110 cc. fill (3.5-3.75 oz.). If low, increase by turning adjusting screw counterclockwise. |
| | Icemaker Not Level | Check level of icemaker, adjust if needed |
| | High Fill Adjustment on Icemaker | Check for 100-110 cc. fill (3.5-3.75 oz.). Turn adjusting screw clockwise to decrease. |
| | Water Valve Energized Too Long | Check icemaker area for jammed ice cube, clear jam if present. Check levelness of icemaker; level if needed. Check position of fill cup, reposition if in ice path. Check water supply pressure; must be constant 20-100 PSI. If not, instruct customer. Check water valve operation, opens when 115V AC is applied, closes completely when 115V AC is removed. Water valve Ohms = 160. Replace if defective. |
| | Intermittent Warm Freezer Temperatures | See PROBLEM A, B, E, F & G earlier in Troubleshooting Guide. |



| R. Membrane Switch on Control Panel Ribbon Cable Check control panel ribbon cable at board. All pins on board should be in cable terminal. See "Pin 1 Identificated Procedure" on page 9-21, to identify ribbon cable terminal, then verify Pin Pin | n ribbon |
|---|------------------|
| Panel Malfunctioning Disconnected or Connected Incorrectly board. All pins on board should be incorrectly cable terminal. See "Pin 1 Identificated Procedure" on page 9-21, to identify | n ribbon |
| cable aligns with Pin 1 on control bo | Pin 1 of 1 of |
| Control Panel Assembly Defective (OR) No Signal Read at Control Board See Membrane Switch/Ribbon Cable Procedures. If membrane switch fai test, replace control panel assembly switch passes all tests, replace cont board. | ls any If |
| S. No Lights No power to unit Check power to unit, plug unit in or supply circuit breaker ON. | switch |
| Unit switched OFF Check for "OFF" displayed at LCD. I press UNIT ON/OFF key. | f off, |
| Unit in Sabbath Mode Press UNIT ON/OFF key. | |
| Defective or loose light bulb(s) Install a known good light bulb. | |
| Light Terminator Interrupt / Door Ajar Check for proper door closing. If do open too long, lighting system is into by the terminator. If door is obstructed, move obstruction if door will not close properly, adjust replace hinge if defective. After correcting problem, bulbs must down before normal lighting function. | on. door or |
| Light Switch Disconnected or Defective Check wire connections at light switch. Reconnect/repair. Check for 115V A and from light switch. Replace switch defective. | C to |
| Lighting System Wiring Disconnected or Defective Check for 115V AC from light socket to J7-4 on control board. Reconnect or replace defective components. | |
| No Power From Control Board (NOTE: See Unit in Sabbath Mode above.) Check for 115V AC at J7-4 on control Replace board if defective. (NOTE: See Unit in Sabbath Mode at | |
| T. Lights Stay ON with Doors Closed - (May be Accompanied by Door/Drawer Ajar Alarm Bell) Door Ajar a. Food product obstruction b. Door/cabinet hinge problem a. Move obstruction. b. Check and replace hinge if defective | ı. |
| Switch Depressor Not Hitting Switch Replace or repair switch depressor | |
| Light Switch Defective Check for 115V AC to and from light | switch. |
| Replace switch if defective. | |
| | sed, fan |

| PROBLEM | POSSIBLE CAUSE | TEST / ACTION |
|---|--|--|
| U. No Accent Lights (Model 601RG, 611G, 650G Only) | Accent Lighting System Wiring Disconnected or Defective | Check wiring and connections, then with LIGHTS ON/OFF key in on position, check for 115V AC at: Pin J7-5 on Model 601RG Pin J7-3 on Models 611G or 650G Reconnect/repair wiring or replace control board if defective. |
| | Defective light strip(s) | Install known good light strip(s). |
| | Membrane Switch on Control Panel Malfunctioning | See "Membrane Switch on Control Panel Malfunctioning" on previous page. |
| V. Condensation on Glass Door (Model 601RG, 611G, 650G | High Room Ambient | Instruct customer |
| Only) | Door Ajar a. Food product obstruction b. Door/cabinet hinge problem | a. Move obstruction.b. Check and replace hinge if defective. (Also see "Door Not Able to Close Completely" below.) |
| | Air Leak | Check wiring and heat exchanger holes. Seal if open. If door gasket is new, place small bead of silicone under four corners of gasket, 3"-4" long. |
| | Unit in Sabbath Mode with Heavy Usage (Fan ON Feature after door close inactive) | Instruct customer. Press UNIT ON/OFF Key. |
| | Door Heater Defect | Check heater for 2300 - 2900 ohms. If bad, unplug heater and plug in redundant heater. |
| W. Door Not Able to Close Completely | Unit Not Level | Check levelness of unit. Adjust levelness if un-level. |
| | Improper Door Adjustment | Adjust doors. |
| | Door/Cabinet Hinge Problem | Replace hinge if defective. |
| X. Doors Uneven | Unit Not Level | Check levelness of unit. Adjust levelness if un-level. |
| | Improper Door Adjustment | Adjust doors. |
| | Door/Cabinet Hinge Problem | Replace hinge if defective. |



SEALED SYSTEM DIAGNOSTICS TABLES

Before entering sealed system, see General Troubleshooting Guide starting on page 9-4, specifically problems "A" - "D", referencing "Pointers" in first column. By initiating Diagnostic Mode and observing evaporator temperatures, you may find it unnecessary to enter the sealed system. The table on following page also provides a quick reference for temperature/pressure correlation.

NOTE: Always use solder-on process valves. Do NOT use bolt-on process valves as they are prone to leak.

NOTE: Whenever servicing the sealed system, the high-side filter-drier must be replaced.

| NORMAL OPERATING PRESSURES | | | | |
|----------------------------|--------------|---------------------------|----------------------------|--|
| | Model | Normal Low-Side Pressures | Normal High-Side Pressures | |
| 601R | Refrigerator | 10 psi to 36 psi | 90 psi to 100 psi | |
| 601RG | Refrigerator | 10 psi to 36 psi | 90 psi to 100 psi | |
| 601F | Freezer | 1" vacuum to 13 psi | 90 psi to 100 psi | |
| 611 | Refrigerator | 6 psi to 40 psi | 90 psi to 100 psi | |
| 011 | Freezer | 2" vacuum to 14 psi | 90 psi to 100 psi | |
| 611G | Refrigerator | 6 psi to 40 psi | 90 psi to 100 psi | |
| 0110 | Freezer | 2" vacuum to 14 psi | 90 psi to 100 psi | |
| 632 | Refrigerator | 11 psi to 38 psi | 90 psi to 100 psi | |
| 032 | Freezer | 1" vacuum to 9 psi | 90 psi to 100 psi | |
| 642 | Refrigerator | 11 psi to 38 psi | 90 psi to 100 psi | |
| 042 | Freezer | 1" vacuum to 9 psi | 90 psi to 100 psi | |
| 650 | Refrigerator | 6 psi to 40 psi | 90 psi to 100 psi | |
| 030 | Freezer | 2" vacuum to 14 psi | 90 psi to 100 psi | |
| 650G | Refrigerator | 6 psi to 40 psi | 90 psi to 100 psi | |
| 0300 | Freezer | 2" vacuum to 14 psi | 90 psi to 100 psi | |
| 680 | Refrigerator | 16 psi to 36 psi | 90 psi to 100 psi | |
| | Freezer | 1" vacuum to 9 psi | 90 psi to 100 psi | |
| 690 | Refrigerator | 16 psi to 36 psi | 90 psi to 100 psi | |
| 030 | Freezer | 1" vacuum to 9 psi | 90 psi to 100 psi | |
| | | | | |



EVAPORATOR TEMPERATURE / SEALED SYSTEM LOW-SIDE PRESSURE CORRELATION

NOTE: The temperature/pressure table at right is for reference only. A unit's temperature/pressure correlation may differ from those listed due to: variations in evaporator thermistor location, set-points, where the sealed system is in the refrigeration cycle, abmient temperature, etc. If a unit is experiencing temperature problems, it is recommended that you follow the "Pointers" in the first column of the General Troubleshooting Guide. After all mechanical and electrical components have been ruled out, sealed system pressures can be checked by applying solder-on process valves and referencing the preceding page. Do NOT use bolt-on process valves as they are prone to leak. This table should only be used as a last quick check before entering the sealed system.

| Temp °F | Pressure |
|---------|----------|
| -30 | 10" Vac |
| -25 | 7" Vac |
| -20 | 4" Vac |
| -15 | 0" Vac |
| -10 | 2 Psi |
| -5 | 4 Psi |
| 0 | 7 Psi |
| 5 | 9 Psi |
| 10 | 12 Psi |
| 15 | 15 Psi |
| 20 | 18 Psi |
| 25 | 22 Psi |
| 30 | 26 Psi |
| 35 | 30 Psi |
| 40 | 35 Psi |
| 45 | 40 Psi |
| 50 | 45 Psi |
| 55 | 51 Psi |
| 60 | 57 Psi |
| 65 | 64 Psi |
| 70 | 71 Psi |
| 75 | 78 Psi |

| | PRESSURE INDICATIONS | | | | |
|-------------------------|-------------------------|---|--|--|--|
| If low side pressure is | & high side pressure is | possible problem is | | | |
| NORMAL | NORMAL | MECHANICAL (see General Troubleshooting Guide) | | | |
| LOW | LOW | LEAK | | | |
| LOW | HIGH | RESTRICTION | | | |
| HIGH | LOW | INEFFICIENT COMPRESSOR | | | |
| HIGH | HIGH | OVER CHARGE | | | |



CONTROL PANEL MEMBRANE SWITCH / RIBBON CABLE TEST

If integrity of control panel assembly is suspect, perform continuity tests at membrane switch ribbon cable terminal housing. Begin by disconnecting ribbon cable from control board. Disengage control board from control panel. Remove control panel assembly from unit and place it on solid surface.

Pin 1 Identification Procedure

The ribbon cable wires are exposed at back of terminal housing (see Figure 9-1). If Pin 1 is not labeled on ribbon cable or terminal housing tag, follow guidelines below to identify Pin 1:

- 1. If terminal housing is BLUE, then Pin 1 is closest to arrow on housing.
- 2. If terminal housing is BLACK, check for continuity between first two pins at each end of housing while pushing UNIT ON/OFF key. If there is continuity, then Pin 1 is at that end.

Continuity Test Procedure

- 1. Identify model number being serviced in left column of table below.
- 2. Press key listed at top of table.
- 3. Corresponding numbers to right of model number and below key being pressed are the pin numbers on terminal housing that should have continuity.

NOTE: If any continuity tests show failure, replace entire control panel assembly.

| MODEL | UNIT ON/OFF KEY | ALARM (\$\triangle) ON/OFF KEY | ICE ON/OFF KEY | REFRIG WARMER KEY | REFRIG COLDER KEY | FREEZER WARMER KEY | FREEZER COLDER KEY | BULK ICE KEY | LIGHTS ON/OFF KEY |
|-------|-----------------------|---------------------------------|----------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------|-------------------------|
| 601R | 1 - 2 | 2 - 5 | NA | 3 - 4 | 4 - 5 | NA | NA | NA | NA |
| 601RG | 1 - 2 | 2 - 5 | NA | 3 - 4 | 4 - 5 | NA | NA | NA | 2 - 3 |
| 601F | 1 - 2 | 2 - 5 | 2 - 3 | NA | NA | 3 - 4 | 4 - 5 | NA | NA |
| 611 | 1 - 2 | 2 - 5 | 2 - 3 | 1 - 6 | 5 - 6 | 3 - 4 | 4 - 5 | NA | NA |
| 611G | 1 - 2 | 2 - 3 | 2 - 5 | 3 - 4 | 4 - 5 | 1 - 6 | 5 - 6 | NA | 1 - 4 |
| 632 | 1 - 2 | 2 - 5 | 2 - 3 | 1 - 6 | 5 - 6 | 3 - 4 | 4 - 5 | NA | NA |
| 642 | 1 - 2 | 2 - 5 | 2 - 3 | 1 - 6 | 5 - 6 | 3 - 4 | 4 - 5 | NA | NA |
| 650 | 1 - 2 | 2 - 5 | 2 - 3 | 1 - 6 | 5 - 6 | 3 - 4 | 4 - 5 | NA | NA |
| 650G | 1 - 2 | 2 - 3 | 2 - 5 | 3 - 4 | 4 - 5 | 1 - 6 | 5 - 6 | NA | 1 - 4 |
| 680 | 1 - 2 | 2 - 3 | 2 - 5 | 3 - 4 | 4 - 5 | 1 - 6 | 5 - 6 | 1 - 4 | NA |
| 690 | 1 - 2 | 2 - 3 | 2 - 5 | 3 - 4 | 4 - 5 | 1 - 6 | 5 - 6 | 1 - 4 | NA |

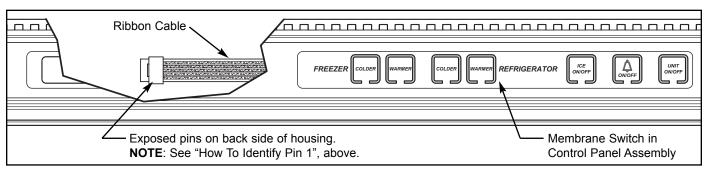


Figure 9-1. Control Panel Assy with Cut-Away View to Show Ribbon Cable (Model 632 Control Panel Shown)

| Troubleshooting Guides Notes | 600 Series SUB-ZERO |
|------------------------------|---------------------|
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SECTION 10 TECHNICAL DATA

For units starting with serial #1810000



Model 601R

| | REFRIGERATOR |
|--|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 10 oz. (PTS #1978387) 8.5 oz (SWS #1978387) |
| NORMAL OPERATING PRESSURES Low Side High Side | 10 psi to 36 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 0.9 / 0.9 280 / 280 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. |
| DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp. | |
| DEFROST HEATER Watts Amps Ohms | |
| DRAIN TUBE HEATER Watts Amps Ohms | |
| FILL TUBE HEATER Watts Amps Ohms | |
| WATER VALVE Watts Amps Ohms (Inductive) | |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 |



Model 601RG

| Wodel 601RG | REFRIGERATOR |
|--|---|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 10 oz. (PTS #1978387) 8.5 oz (SWS #1978387) |
| NORMAL OPERATING PRESSURES Low Side High Side | 10 psi to 36 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 1.0 / 0.9 370 / 280 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. |
| DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp. | |
| DEFROST HEATER Watts Amps Ohms | |
| DRAIN TUBE HEATER Watts Amps Ohms | |
| FILL TUBE HEATER Watts Amps Ohms | |
| WATER VALVE Watts Amps Ohms (Inductive) | |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 |
| DOOR HEATER Watts Amps Ohms | 5 .5 2300 - 2900 |



Model 601F

| | FREEZER |
|--|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 11 oz. |
| NORMAL OPERATING PRESSURES Low Side High Side | 1" vacuum to 13 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4202250 Panasonic DA73C 1.2 / 1.3 715 / 880 |
| DEFROST METHOD | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp. | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER Watts Amps Ohms | 640 5.5 19 - 23 |
| DRAIN TUBE HEATER Watts Amps Ohms | 7 .06 1700 - 2080 |
| DRAIN TROUGH HEATER Watts Amps Ohms | 50 .4 240 - 280 |
| FILL TUBE HEATER Watts Amps Ohms | 5 .04 2300 - 2900 |
| WATER VALVE Watts Amps Ohms (Inductive) | 50 .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 |



| Woder 611 | REFRIGERATOR | FREEZER |
|---|---|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 10 oz. | 8.5 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES | | |
| Low Side High Side | 6 psi to 40 psi 90 psi to 100 psi | 2" vacuum to 14 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | |
| Service Part No. Manufacturer | 4201880 Embraco | 4202280 Embraco |
| Mfg. Part No. | EMI30HER | EMI60HER |
| Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 1.2 / 1.2 280 / 280 | 2.5 / 2.5 585 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR | | |
| Cut-In Temp. Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER | | |
| Watts | | 640 |
| Amps Ohms | | 5.5 19 - 23 |
| DRAIN TUBE HEATER | | |
| Watts | | |
| Amps Ohms | | |
| DRAIN TROUGH HEATER | | |
| Watts | | |
| Amps Ohms | | |
| FILL TUBE HEATER | | |
| Watts | | 5 |
| Amps Ohms | | .04 2300 - 2900 |
| WATER VALVE | | |
| Watts | | 50 |
| Amps Ohms (Inductive) | | .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |



Model 611G

| Model 6116 | <u></u> | T |
|--|--|---|
| | REFRIGERATOR | FREEZER |
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 6 oz. | 8.5 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES | | |
| Low Side High Side | 6 psi to 40 psi 90 psi to 100 psi | 2" vacuum to 14 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 1.2 / 1.2 280 / 280 | 4202280 Embraco EMI60HER 2.5 / 2.5 585 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER Watts Amps Ohms | | 640 5.5 19 - 23 |
| DRAIN TUBE HEATER Watts Amps Ohms | | |
| DRAIN TROUGH HEATER Watts Amps Ohms | | |
| FILL TUBE HEATER Watts Amps Ohms | | 5 .04 2300 - 2900 |
| WATER VALVE Watts Amps Ohms (Inductive) | | 50 .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |
| DOOR HEATER Watts Amps Ohms | 5 .5 2300 - 2900 | |



| Wodel 632 | | |
|---|--|--|
| | REFRIGERATOR | FREEZER |
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 10 oz. | 9 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES | | |
| Low Side High Side | 11 psi to 38 psi 90 psi to 100 psi | 1" vacuum to 9 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | (See price list for serial number breaks) |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 1.2 / 1.2 280 / 280 | 4202250 4202280 Panasonic Embraco DA73C EMI60HER 1.2 / 1.3 1.2 / 2.5 715 / 880 715 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR | | |
| Cut-In Temp. Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER | | |
| Watts Amps | | 640 5.5 |
| Ohms | | 19 - 23 |
| DRAIN TUBE HEATER | | |
| Watts Amps | | 7 .06 |
| Ohms | | 1700 - 2080 |
| DRAIN TROUGH HEATER | | |
| Watts | | |
| Amps Ohms | | |
| FILL TUBE HEATER | | |
| Watts | | 5 |
| Amps Ohms | | .04 2300 - 2900 |
| WATER VALVE Watts | | 50 |
| Amps Ohms (Inductive) | | .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |
| | L | l . |



| WIOGET 042 | REFRIGERATOR | FREEZER |
|---|--|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 9 oz. | 7.5 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES Low Side High Side | 11 psi to 38 psi 90 psi to 100 psi | 1" vacuum to 9 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | (See price list for serial number breaks) |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 1.2 / 1.2 280 / 280 | 4202250 4202280 Panasonic Embraco DA73C EMI60HER 1.4 / 1.3 1.4 / 2.5 860 / 880 860 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER Watts Amps Ohms | | 640 5.5 19 - 23 |
| DRAIN TUBE HEATER Watts Amps Ohms | | 7 .06 1700 - 2080 |
| DRAIN TROUGH HEATER Watts Amps Ohms | | |
| FILL TUBE HEATER Watts Amps Ohms | | 5 .04 2300 - 2900 |
| WATER VALVE Watts Amps Ohms (Inductive) | | 50 .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |



| MOCEL OSO | | |
|---|---|--|
| Model 650 | REFRIGERATOR | FREEZER |
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 8 oz. | 6 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES | | |
| Low Side High Side | 6 psi to 40 psi 90 psi to 100 psi | 2" vacuum to 14 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | |
| Service Part No. Manufacturer | 4201880 Embraco | 4202280 Embraco |
| Mfg. Part No. | EMI30HER | EMI60HER |
| Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 1.2 / 1.2 280 / 280 | 2.5 / 2.5 585 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR | | |
| Cut-In Temp. Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER | | |
| Watts | | 640 5.5 |
| Amps Ohms | | 19 - 23 |
| DRAIN TUBE HEATER | | |
| Watts | | |
| Amps Ohms | | |
| DRAIN TROUGH HEATER | | |
| Watts | | |
| Amps Ohms | | |
| FILL TUBE HEATER | | |
| Watts | | 5 |
| Amps Ohms | | .04 2300 - 2900 |
| WATER VALVE Watts | | 50 |
| Amps Ohms (Inductive) | | .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |



Model 650G

| | REFRIGERATOR | FREEZER |
|--|--|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 7 oz. | 6 oz. |
| NORMAL OPERATING PRESSURES | | |
| Low Side High Side | 6 psi to 40 psi 90 psi to 100 psi | 2" vacuum to 14 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 1.2 / 1.2 280 / 280 | 4202280 Embraco EMI60HER 2.5 / 2.5 585 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER | | |
| Watts Amps Ohms | | 640 5.5 19 - 23 |
| DRAIN TUBE HEATER | | |
| Watts Amps Ohms | | |
| DRAIN TROUGH HEATER | | |
| Watts Amps Ohms | | |
| FILL TUBE HEATER | | _ |
| Watts Amps Ohms | | 5 .04 2300 - 2900 |
| WATER VALVE | | _ |
| Watts Amps Ohms (Inductive) | | 50 .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |
| DOOR HEATER Watts Amps Ohms | 5 .5 2300 - 2900 | |



| Model 600 | REFRIGERATOR | FREEZER |
|--|--|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 9 oz. | 9 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES Low Side High Side | 16 psi to 36 psi 90 psi to 100 psi | 1" vacuum to 9 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | (See price list for serial number breaks) |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's | 4201880 Embraco EMI30HER 1.2 / 1.2 280 / 280 | 4202250 4202280 Panasonic Embraco DA73C EMI60HER 1.4 / 1.3 1.4 / 2.5 860 / 880 715 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATORCut-In Temp.Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER Watts Amps Ohms | | 640 5.5 19 - 23 |
| DRAIN TUBE HEATER Watts Amps Ohms | | 7 .06 1700 - 2080 |
| DRAIN TROUGH HEATER Watts Amps Ohms | | 15 .13 790 - 970 |
| FILL TUBE HEATER Watts Amps Ohms | | 5 .04 2300 - 2900 |
| WATER VALVE Watts Amps Ohms (Inductive) | 20 .2 260 | 50 .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |
| MULLION CHUTE HEATER Watts Amps Ohms | 15 .13 790 - 970 | |
| GLASS WELL HEATER Watts Amps (PTS #1810000) Ohms (Heater 1 - SWS #1810000) Ohms (Heater 2 - SWS #1810000) Ohms | 5 .04 2600 - 3100 1400 - 1800 2600 - 3100 | |



| Widdel 030 | REFRIGERATOR | FREEZER |
|---|--|--|
| CHARGE (R-134a Refrigerant) NOTE: Always check serial tag for exact charge | 10 oz. | 8 oz. (PTS #1921778) 7 oz. (SWS #1921778) |
| NORMAL OPERATING PRESSURES Low Side High Side | 16 psi to 36 psi 90 psi to 100 psi | 1" vacuum to 9 psi 90 psi to 100 psi |
| COMPRESSOR NOTE: Always check current parts price list for possible substitutions. | | (See price list for serial number breaks) |
| Service Part No. Manufacturer Mfg. Part No. Original Compressor/Service Compressor Amps Original Compressor/Service Compressor BTU's | 4201880 Embraco EMI30HER 1.2 / 1.2 280 / 280 | 4202250 4202280 Panasonic Embraco DA73C EMI60HER 1.4 / 1.3 1.4 / 2.5 860 / 880 715 / 585 |
| DEFROST METHOD | "Off Cycle Defrost" Evap > 38°F before Compressor ON. | "Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay. |
| DEFROST TERMINATORCut-In Temp.Cut-Out Temp. | | 30°F / -1°C 55°F / 13°C |
| DEFROST HEATER Watts Amps Ohms | | 640 5.5 19 - 23 |
| DRAIN TUBE HEATER Watts Amps Ohms | | 7 .06 1700 - 2080 |
| DRAIN TROUGH HEATER Watts Amps Ohms | | 15 .13 790 - 970 |
| FILL TUBE HEATER Watts Amps Ohms | | 5 .04 2300 - 2900 |
| WATER VALVE Watts Amps Ohms (Inductive) | 20 .2 260 | 50 .4 160 |
| THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C | 30000 - 33000 | 30000 - 33000 |
| MULLION CHUTE HEATER Watts Amps Ohms (Inductive) | 15 .13 790 - 970 | |
| GLASS WELL HEATER Watts Amps (PTS #1810000) Ohms (Heater 1 - SWS #1810000) Ohms (Heater 2 - SWS #1810000) Ohms | 5 .04 2600 - 3100 1400 - 1800 2600 - 3100 | |

SECTION 11

WIRING DIAGRAMS & SCHEMATICS

For units starting with serial #1810000

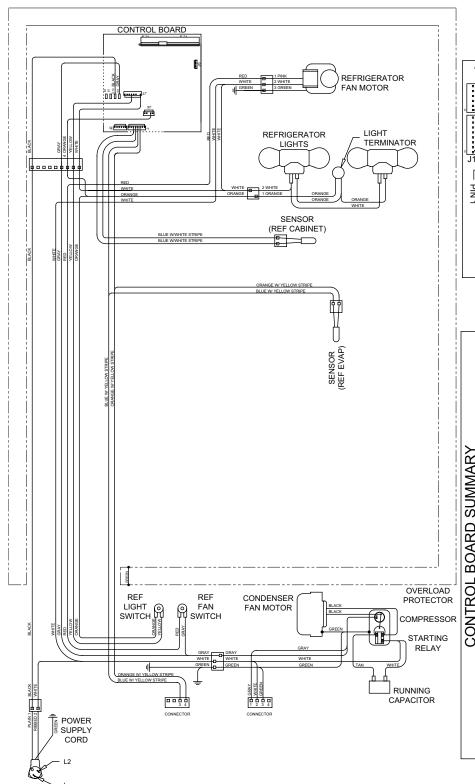
NOTE: Due to our continuous improvement program, it is recommended to always use the wiring diagrams supplied with the appliance, located in an envelope in the compressor area. These diagrams should only be used for reference prior to servicing a Sub-Zero appliance.

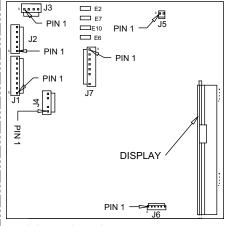


WIRING DIAGRAM MODEL: 601R

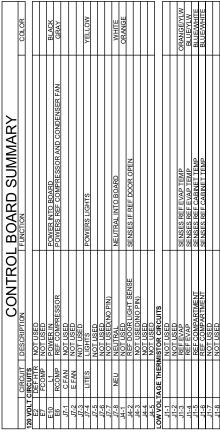


Disconnect appearuse non-control beginning service.
 Be sure all grounding devices are connected when service is complete.
 -Failure to observe the above warnings may result in severe electrical shock.





CONTROL BOARD DETAIL

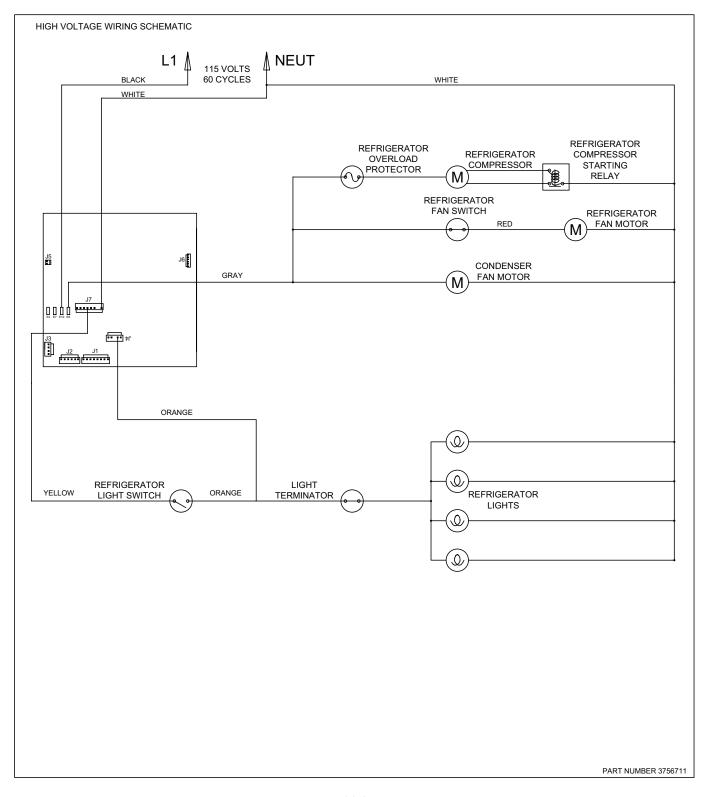


WIRING SCHEMATIC MODEL: 601R

- -This wiring information is provided for use by qualified service personnel only.

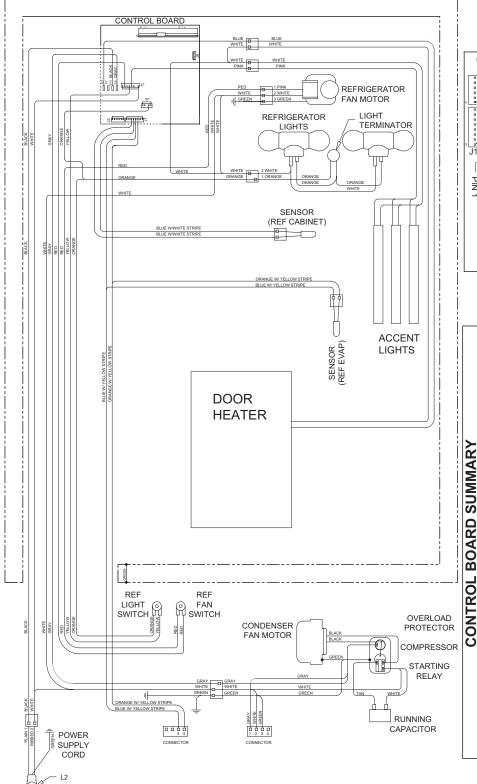
 -Disconnect appliance from electrical supply before

- Usconnect appliance from electrical supply before beginning service.
 Be sure all grounding devices are connected when service is complete.
 Failure to observe the above warnings may result in severe electrical shock.

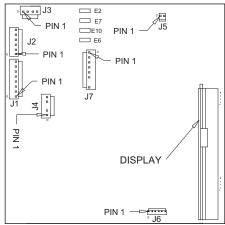




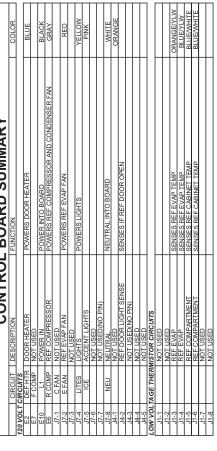
WIRING DIAGRAM MODEL 601RG



- Inis winning miormation is provided for use by qualities service personnel only.
 - Disconnect appliance from electrical supply before beginning service.
 - Be sure all grounding devices are connected when service is complete.
 - Failure to observe the above warnings may result in severe electrical shock.



CONTROL BOARD DETAIL



PART NUMBER 3757370

WIRING SCHEMATIC MODEL: 601RG

-This wiring information is provided for use by qualifi service personnel only.

Disconnect appliance from electrical supply before beginning service.

-Be sure all grounding devices are connected when

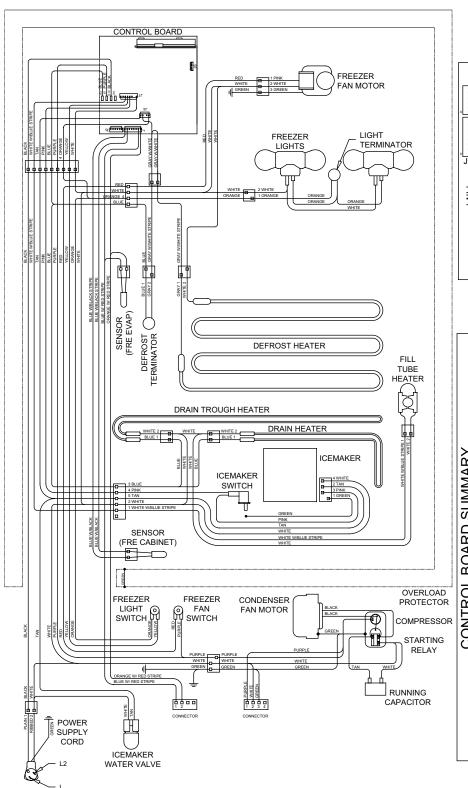
service is complete.
-Failure to observe the above warnings may result in severe electrical shock.

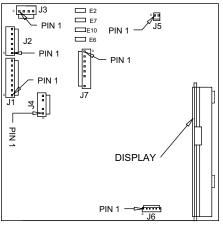
HIGH VOLTAGE WIRING SCHEMATIC **NEUT** 115 VOLTS 60 CYCLES WHITE WHITE REFRIGERATOR FAN SWITCH REFRIGERATOR RED **FAN MOTOR** REFRIGERATOR REFRIGERATOR REFRIGERATOR COMPRESSOR **OVERLOAD** COMPRESSOR STARTING **PROTECTOR** RELAY J6 J5 CONDENSER GRAY **FAN MOTOR** PINK 0 ₽F br ACCENT LIGHTS J2 J1 Q ORANGE Q Q REFRIGERATOR LIGHT YELLOW ORANGE REFRIGERATOR LIGHT SWITCH **TERMINATOR** LIGHTS 0 Q DOOR **HEATER** BLUE $\neg \land \land \land \land$ 2300 - 2900 Ohms PART NUMBER 3756711



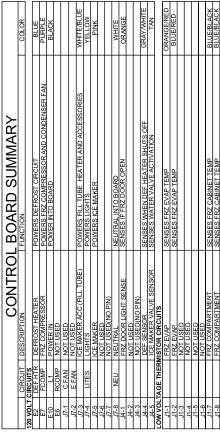
WIRING DIAGRAM MODEL: 601F







CONTROL BOARD DETAIL





WIRING SCHEMATIC MODEL: 601F

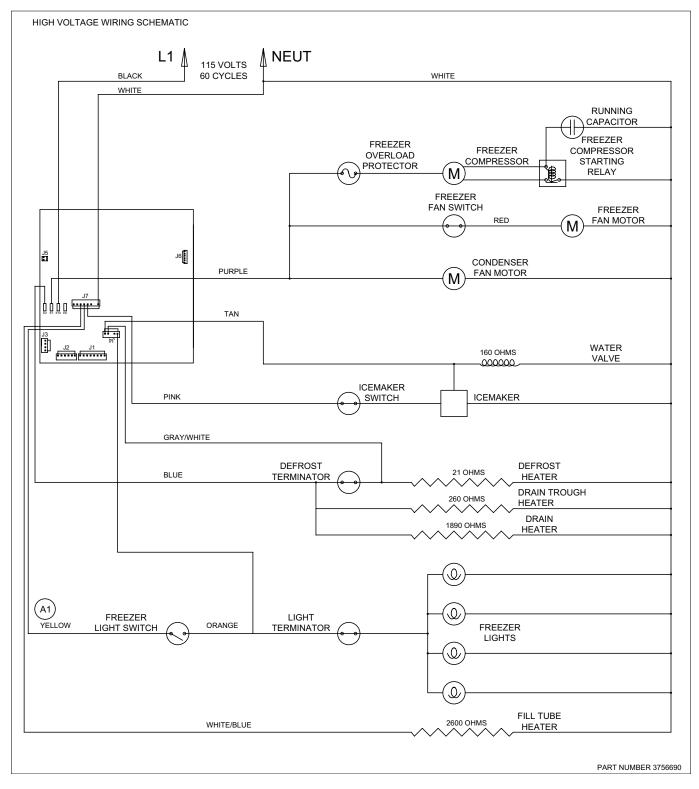
-This wiring information is provided for use by qualified service personnel only.
-Disconnect appliance from electrical supply before

Described apply before the second supply before beginning service.

Be sure all grounding devices are connected when service is complete.

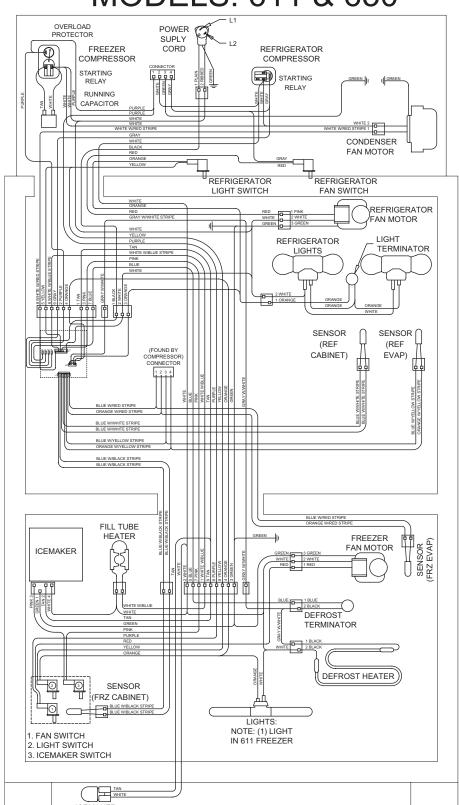
Failure to observe the above warnings may result in

severe electrical shock.





WIRING DIAGRAM MODELS: 611 & 650



WATER VALVE

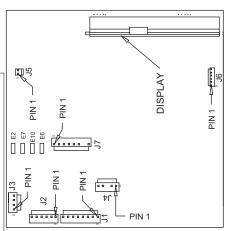
-This wiring information is provided for use by qualified

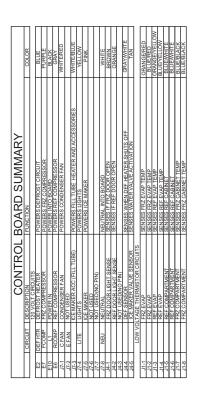
service personnel only.

-Disconnect appliance from electrical supply before beginning service.
-Be sure all grounding devices are connected when

service is complete.

-Failure to observe the above warnings may result in severe electrical shock.





PART NUMBER 3756490

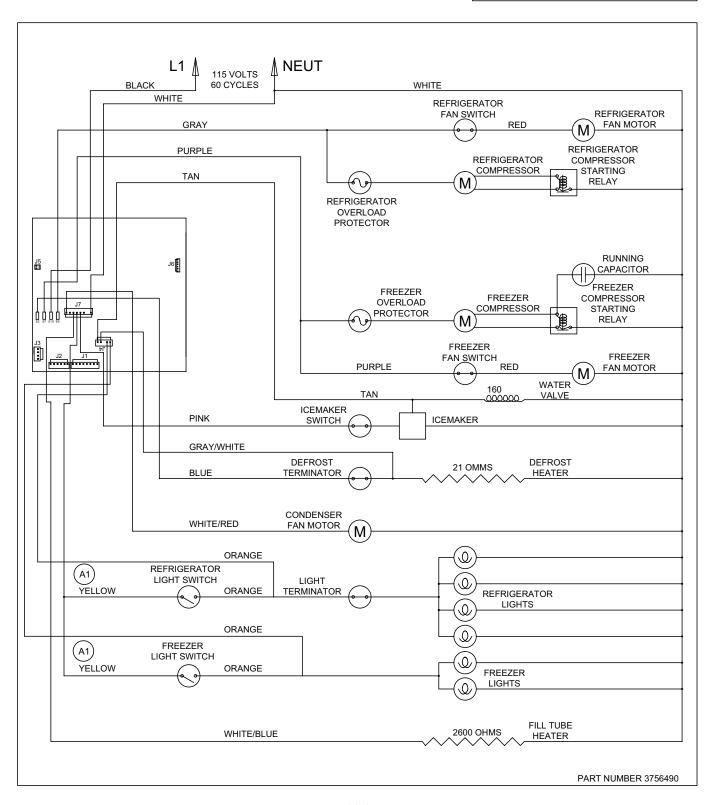
WIRING SCHEMATIC MODELS: 611 & 650

service personnel only.
-Disconnect appliance from electrical supply before

beginning service.

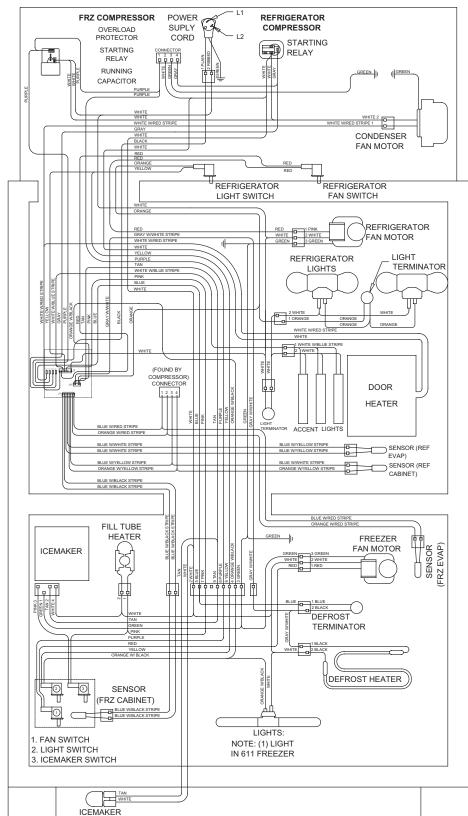
-Be sure all grounding devices are connected when service is complete.

Failure to observe the above warnings may result in severe electrical shock.





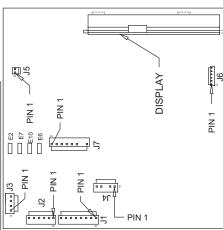
WIRING DIAGRAM MODELS: 611G & 650G

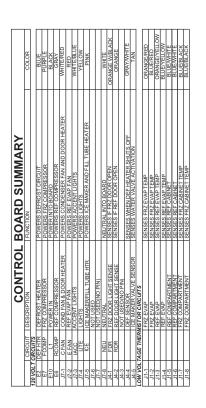


WATER VALVE

-This wiring information is provided for use by qualified

In is wring information is provided or use by qualities service personnel only.
 Disconnect appliance from electrical supply before beginning service.
 Be sure all grounding devices are connected when service is complete.
 Failure to observe the above warnings may result in severe electrical shock.

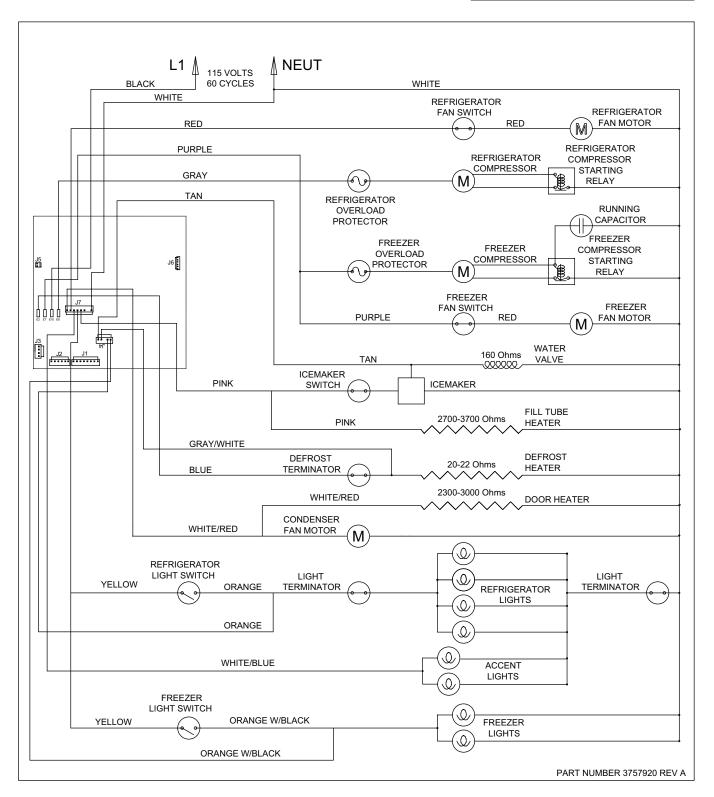




WIRING SCHEMATIC MODELS: 611G & 650G

- service personnel only.
- -Disconnect appliance from electrical supply before
- beginning service.

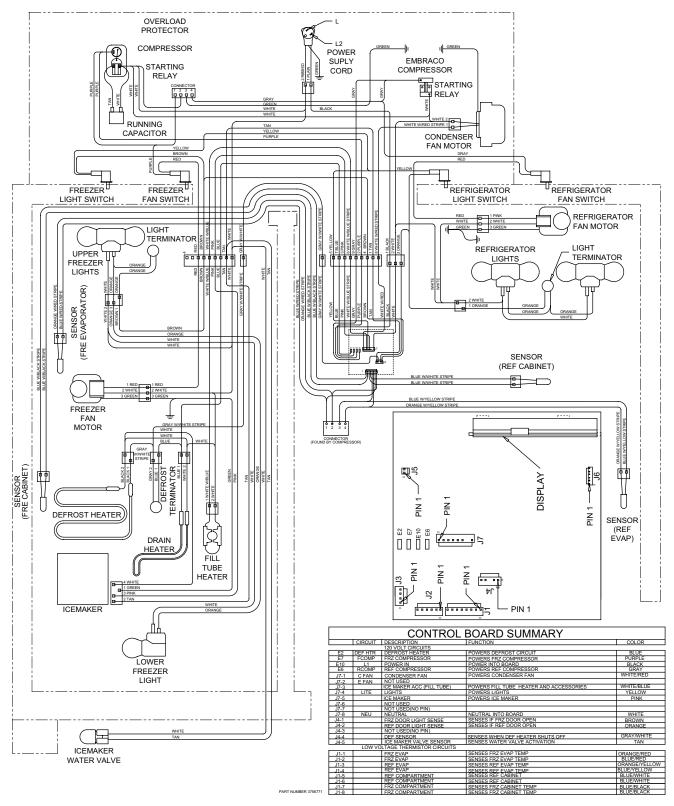
 -Be sure all grounding devices are connected when
- service is complete.
 -Failure to observe the above warnings may result in





WIRING DIAGRAM MODELS: 632/642

-This wiring information is provided for use by qualified service personnel only. -Disconnect appliance from electrical supply before beginning service. -Be sure all grounding devices are connected when service is complete. -Failure to observe the above warnings may result in course electrical shork.



WIRING SCHEMATIC MODELS: 632/642

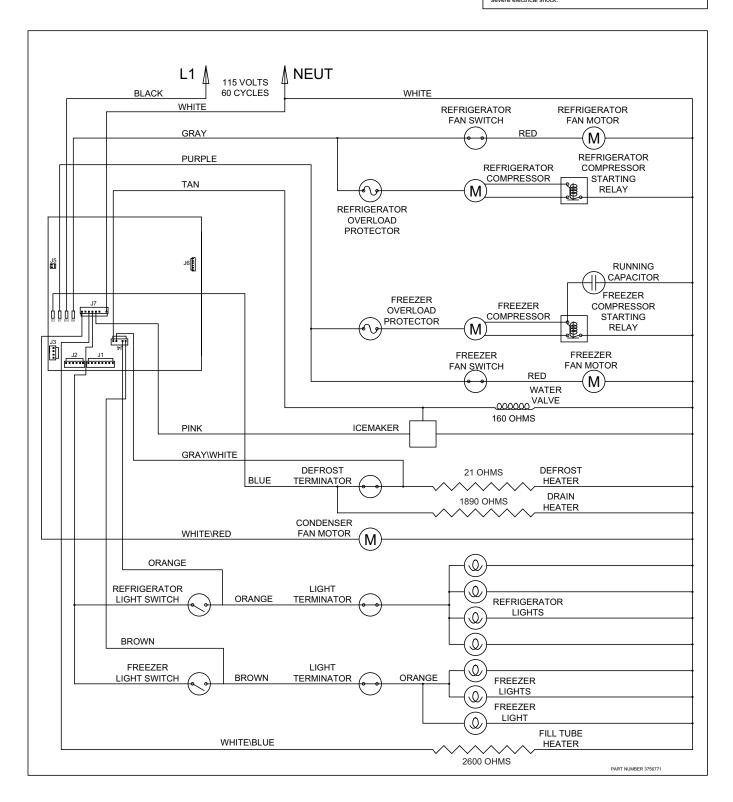
AWARNING

-This wiring information is provided for use by qualified service personnel only.
-Disconnect appliance from electrical supply before

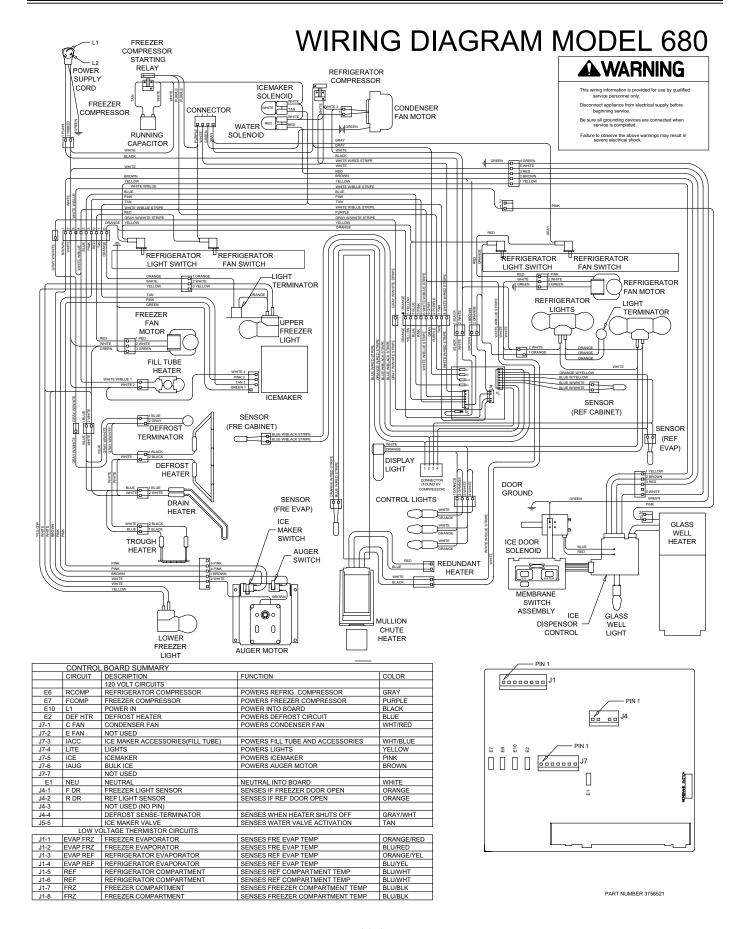
 Disconnect appliance from electrical supply before beginning service.

 -Be sure all grounding devices are connected when service is complete.

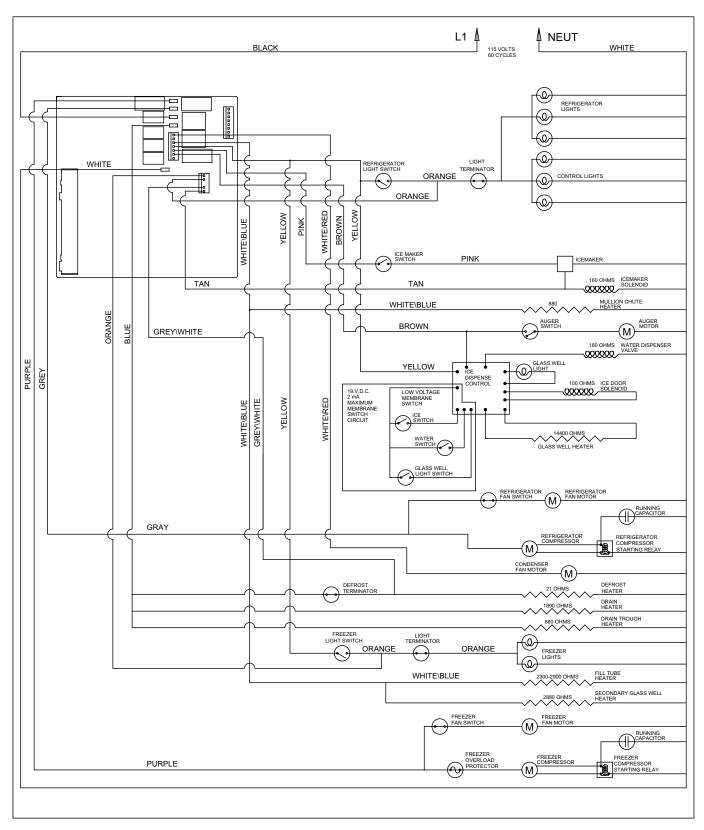
 -Failure to observe the above warnings may result in severe electrical shock.

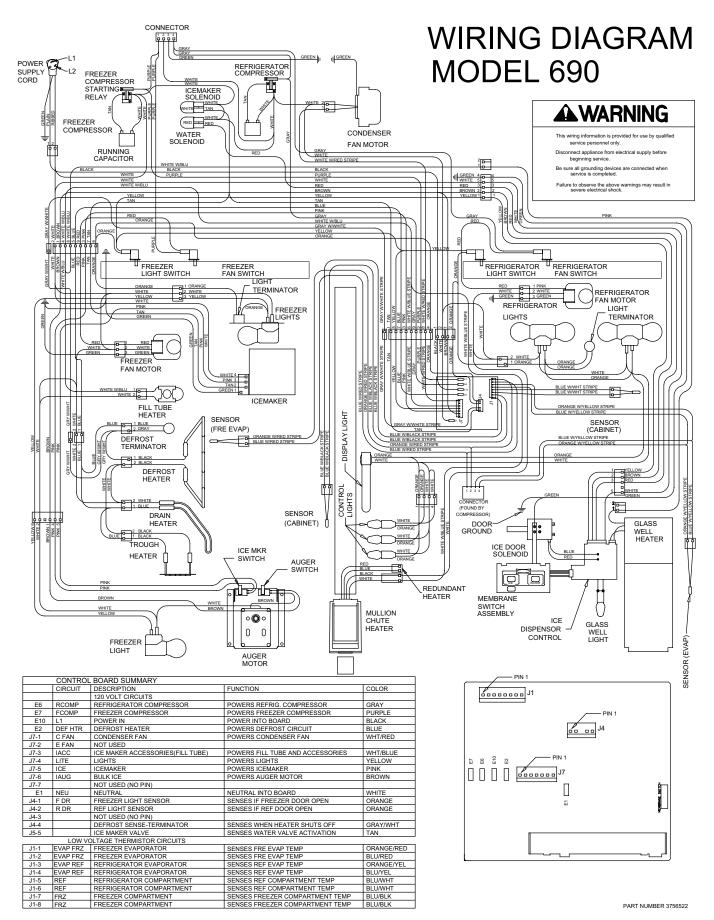




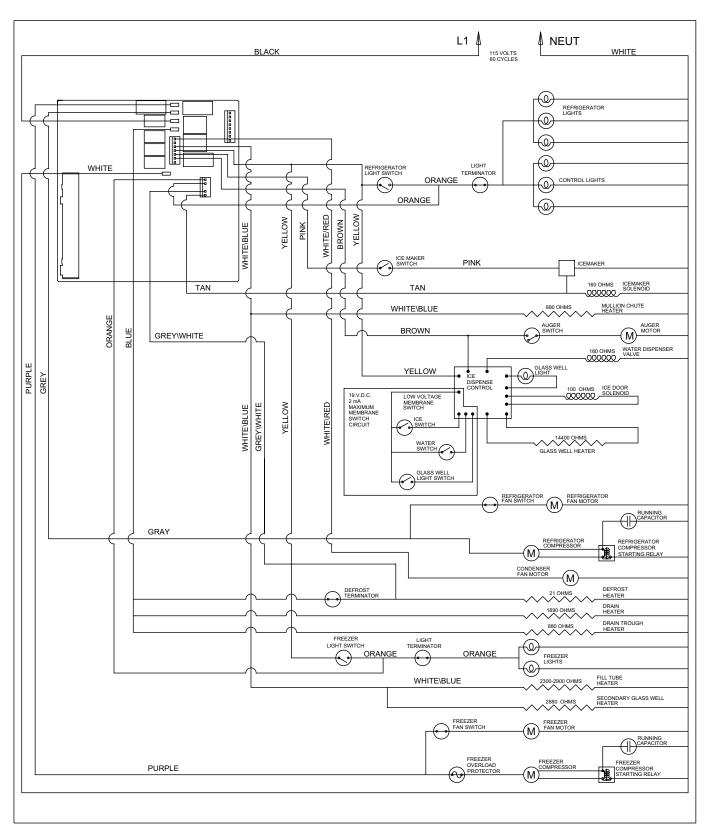


SCHEMATIC MODEL 680





SCHEMATIC MODEL 690



| Wiring Diagrams & Schematics | 600 Series SUB-ZERO |
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