

INTRODUCTION

This 600 Series Base Unit Technical Service Manual, Part #3756270, has been compiled to provide the most recent information on safety, installation, set-up, design, operation, features, troubleshooting, wiring diagrams, and repair procedures of the 600 Series, prior to Serial #1810000. This information will enable the service technician to troubleshoot and diagnose malfunctions, perform necessary repairs, and return a 600 Series unit, prior to Serial #1810000 to proper operational status.

The service technician should read the complete instructions contained in this service manual before initiating any repairs on a 600 Series unit.

IMPORTANT SAFETY INFORMATION

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

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.

WARNING

INDICATES THAT HAZARDOUS OR UNSAFE PRACTICES COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH

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 a 600 Unit 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 summarizes the 2, 5 & 12 Year Warranty supplied with every unit, as well as 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's 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 SYSTEM 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 Terminators, Drain Pans, Drain Tubes, Wiring, Light sockets & bulbs, Ice makers, Water Valves, Door hinges, Door closers & Cams, Compressor Electricals, etc. . .
- ** Sealed System Parts include the following:
Compressors, Condensers, 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 initial 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.
NOTE: Sub-Zero still requests that you have the model and serial number available whenever contacting the factory or parts distributor.
- The serial number tag for the SIDE-BY-SIDE models is located by the top door hinge of the freezer section.
- The serial number tag for the OVER-AND-UNDER models is located by the top door hinge of the refrigerator section.
- The serial number tag for the ALL-REFRIGERATOR and ALL-FREEZER models is located by the top door hinge of the refrigeration compartment.
- "M"-Preceding the Serial # = Madison Production
- "P"-Preceding the Serial # = Phoenix Production.

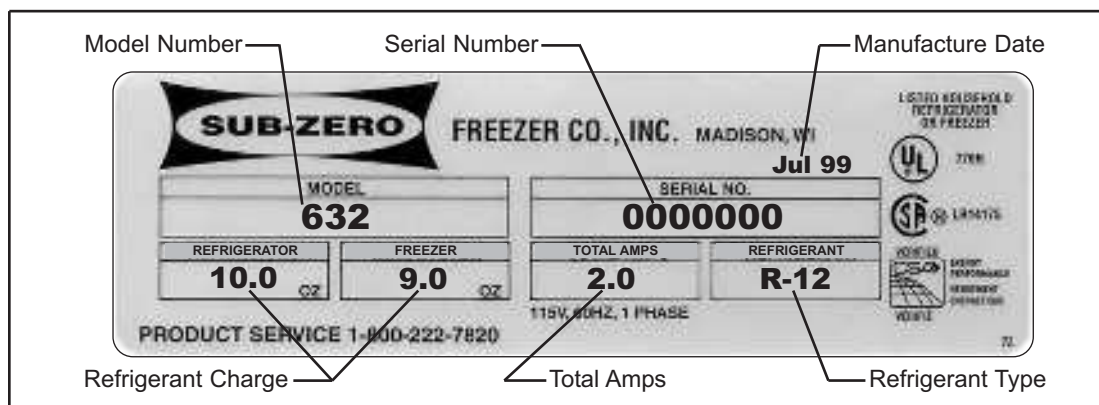


Figure 1-1. Serial Tag Layout (Layout Reference Only)

MODEL DESCRIPTIONS

This section briefly describes the models covered in this 600 Series Service Manual. Though there are twenty models, there are only seven basic model configurations (Models 601R, 601F, 611, 632, 642, 650, 690). The reason for twenty different model numbers is the three esthetic variations to the exterior components. The letter after the backward slash in the alpha-numeric model number indicates the exterior cosmetic variation. ("F" indicates a **Framed** look with the door trim visible, "O" indicates that it is intended for the unit's door panels to **Overlay** the door trim, and "S" indicates that the unit is **Stainless Steel**.)

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 alpha-numeric model number will be used in this manual only when necessary.

Listed below are the twenty model numbers with a brief description of that model.

MODEL	DESCRIPTION
601R/F	36" Wide, All-Refrigerator, Framed Door with handle, Louver 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
601F/F	36" Wide, All-Freezer, Framed Door Trim with handle, Louver 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
611/F	30" Wide, Over-and-Under, Framed Door Trim with handle, Louver Grille (Standard)
611/O	30" Wide, Over-and-Under, Overlay Door Trim without handle, Panel Grille (Standard)
611/S	30" Wide, Over-and-Under, Stainless Steel Doors and Grille
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)
632/S	48" Wide, Side-by-Side, Stainless Steel Doors and Grille
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, Stainless Steel Doors and Grille
650/F	36" Wide, Over-and-Under, Framed Door Trim with handle, Louver Grille (Standard)
650/O	36" Wide, Over-and-Under, Overlay Door Trim without handle, Panel Grille (Standard)
650/S	36" Wide, Over-and-Under, Stainless Steel Doors and Grille
690/F	48" Wide, Side-by-Side, Ice & Water Dispenser, Framed Door Trim with handle, Louver Grille, (Standard)
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.