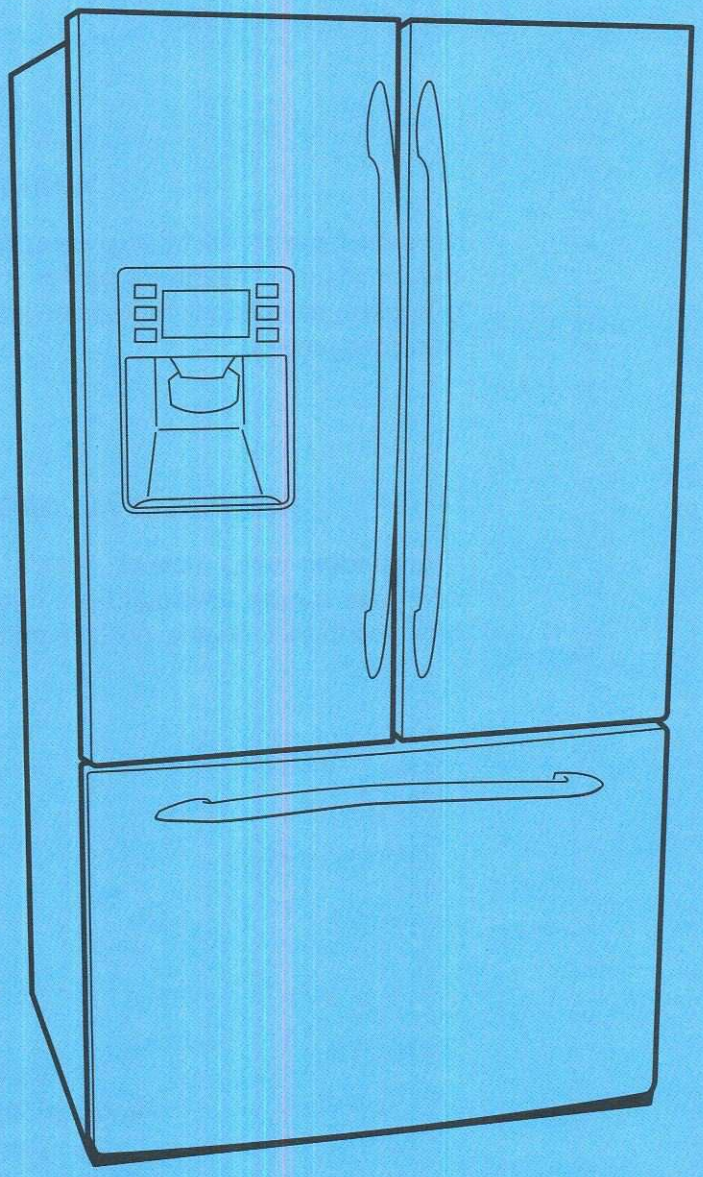
GE Appliances

Technical Service Guide

August 2010

Profile 29 cu. ft. Bottom Freezer

PFSS9PKY
PFSS9SKY



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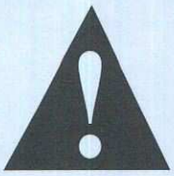
Louisville, Kentucky 40225



IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

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Table of Contents

3-Way Valve 41

Articulating Door Mullion 53

Auger Motor Assembly 52

Circuit Boards 38

Components Locator Views 15

Condenser Fan 29

Control Board Connector Locator 17

Control Features 12

Control Panel Operation - LED 57

Damper Assembly 47

Defrost Heaters 35

Dispenser Assembly 45

Dispenser Display Assembly 44

Dispenser Heater 46

Door Gaskets 20

Duct Heater 36

EMI Filter and Power Cord 37

Evacuation and Charging Procedure 9

Freezer Evaporator 25

Freezer Evaporator Cover 23

Freezer Fan 26

Fresh Food Evaporator 23

Fresh Food Evaporator Cover 21

Fresh Food Fan 28

Ice Bucket and Icemaker 50

Ice Room Blower 27

Installation 11

Interior Airflow 10

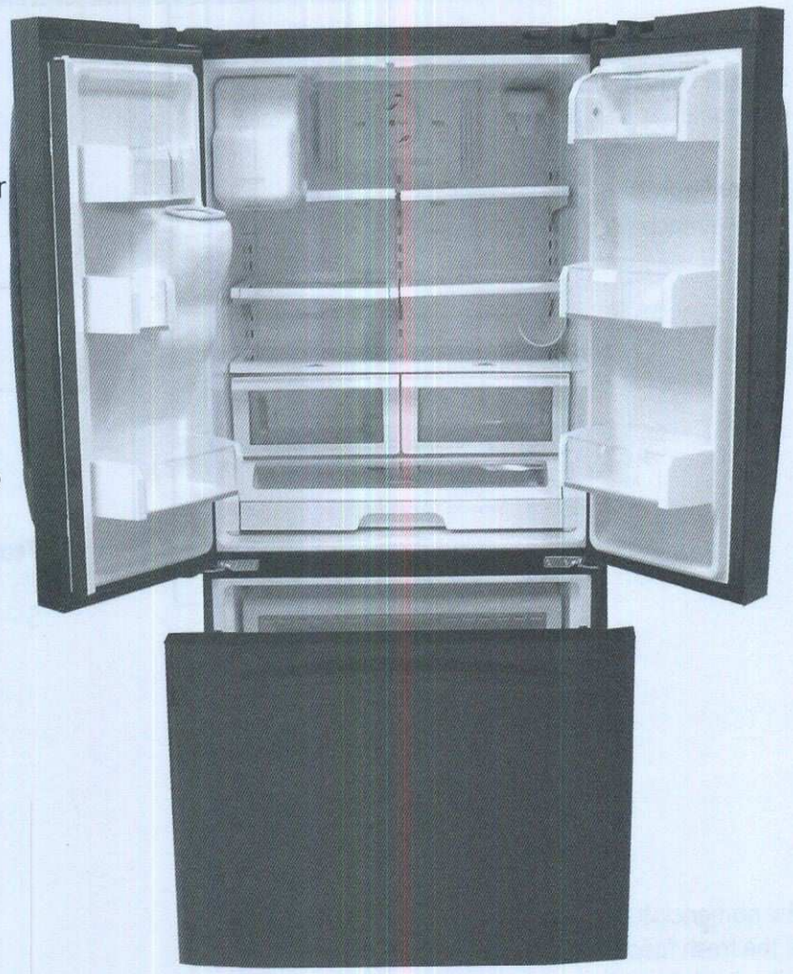
Interior Lights 20

(*Continued next page*)

Introduction 5
Inverter Board Compressor Codes 84
Inverter Compressor 40
Machine Compartment Cover 29
Nomenclature 6
Over Temperature Thermostats 34
Pantry Drawer Assembly 46
Pantry Drawer Control 47
Refrigeration Components 8
Refrigeration System 8
Replacing Evaporators Using the LOKRING Method 26
Replacing the 3-Way Valve 42
Replacing the 3-Way Valve Coil 42
Schematic 85
Technical Data 7
Test Mode Operation - LCD 61
Test Mode Operation - LED 68
Thermistors 31
Top Table 19
Troubleshooting 61
Vegetable and Fruit Drawers Shelf 46
Warranty 87
Water Tank 48

Introduction

The new Profile 29-cubic foot capacity Bottom Mount Refrigerators are available with a LED control (PFSS9PKY) or a LCD control (PFSS9PSY). Both models have these following features:



- ENERGY STAR® qualified.
- Main board with integrated power supply.
- New variable speed inverter compressor has a discrete compressor inverter board and a series sealed system with a 3-way valve.
- Integrated Dispenser with Crushed Ice, Water, and Actual Temperature Display — Features a new 9-cube icemaker with water flow control sensor, new water tank, and a new ice bucket.
- New improved articulating door mullion attached to the left-side door provides a movable center mullion that maximizes access to the fresh food compartment.
- Secure-Close Door Systems — Securely pulls the doors and drawers shut, even after you release the handles.
- ClimateKeeper™ with Dual Evaporators — Uses two evaporators to maintain higher humidity for fresh foods.
- Freshness Center™ — Offers maximum convenience by utilizing two humidity-controlled drawers and 1 full-length adjustable temperature deli drawer.
- An external "air" thermistor changes the control setting based on ambient condition to keep the fresh food and freezer at the correct temperature.
- TurboCool™ — Rapidly cools the refrigerator compartment to cool foods quickly.
- TurboFreeze — Rapidly cools the freezer compartment to freeze foods quickly.
- LED Lighting — Casts a clean, beautiful light throughout the fresh food area of the refrigerator. (GE Reveal™ Lighting in freezer.)
- Available in white or black finish or stainless wrap.

Note: Features may vary by model.

Nomenclature

P F S S 9 P K Y S S

Brand/Product
P - Profile

Configuration
F - French Door w/FZ Drawer

Style
S - Standard Depth

Exterior
S - Stainless

Capacity
9 - 29 Cubic Foot

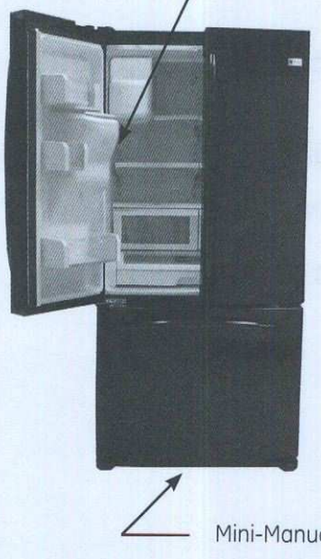
Feature Pack
P - LED Unit
S - LCD Unit

Ice/Water
K - External Cubed & Crushed Ice & Water, 1 Year Filter/Icemaker

Model Year
Y - 2009

Exterior Color
WW - White on White
BB - Black on Black
SS - Stainless Steel

The nomenclature tag is located on the left wall of the fresh food compartment. It contains the following information:



- Model and Serial Number
- Minimum Installation Clearances
- Electrical Voltage, Frequency
- Maximum Amperage Rating
- Refrigerant Charge and Type

Serial Number
The first two numbers of the serial number identify the month and year of manufacture.

Example: ***AS****123456S = January, 2009*

A - JAN	2009 - ***S***
D - FEB	2008 - R
F - MAR	2007 - M
G - APR	2006 - L
H - MAY	2005 - H
L - JUN	2004 - G
M - JUL	2003 - F
R - AUG	2002 - D
S - SEP	2001 - A
T - OCT	2000 - Z
V - NOV	1999 - V
Z - DEC	1998 - T

The letter designating the year repeats every 12 years.

Example:
T - 1974
T - 1986
T - 1998

Technical Data

DISCONNECT POWER CORD BEFORE SERVICING
IMPORTANT - RECONNECT ALL GROUNDING DEVICES
All parts of this appliance capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

ELECTRICAL SPECIFICATIONS

Temperature Control (Position 5) .....16-(-11)°F
Defrost Control (w/no door openings) 22hrs
Thermistor kilo-ohm resistance .....-2°F.....30.6°
.....38°F.....11.6°
.....77°F.....5.0k°
Overtemperature Thermostat .....140-104°F
Defrost Thermistor.....50°F
Electrical Rating: 115V AC 60 Hz .....5.3 A
Maximum Current Leakage .....0.75 mA
Maximum Ground Path Resistance .....0.14°

NO LOAD PERFORMANCE

Control Position 5/5 and Ambient of 70°F to 90°F
Fresh Food, °F .....33 to 42°F
Frozen Food, °F .....-7 to 3°F
Run Time, % @ 70°F .....25 to 45
Run Time, % @ 90°F .....45 to 75

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REFRIGERATION SYSTEM

Compressor 29 Model .....738~1270 BTU/hr
Minimum Equalized Pressure
@ 90°F.....55 to 65 PSIG
@ 110°F.....70 to 82 PSIG

REFRIGERANT CHARGE (R134a)

29 Model .....5.643 ounces