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Frigidaire 241588203

Frigidaire 241588203 Refrigerator Tech Data Sheet User Manual

A comprehensive guide to understanding and utilizing your technical data sheet.

Introduction to the Tech Data Sheet

This document serves as a technical data sheet for the Frigidaire 241588203 refrigerator model. It provides critical information for qualified service personnel regarding the appliance's performance, operational specifications, and internal components. This sheet is essential for accurate diagnosis, repair, and maintenance procedures.
It is important to note that this is a genuine replacement part document, intended to provide technical specifications and data for the associated Frigidaire refrigerator model.

Important Safety Information

WARNING:
All electrical parts and wiring must be shielded from torch flame. Do not allow torch to contact insulation; it will char or burn and flash ignite (burn) at 500°F. Excessive heat will distort the plastic liner.
IMPORTANT:
This information is provided to assist qualified repair personnel only. Untrained persons should not attempt to make repairs due to the possibility of electrical shock. Disconnect power cord before servicing.
If any green grounding wires are moved during servicing, they must be returned to their original position and properly secured.

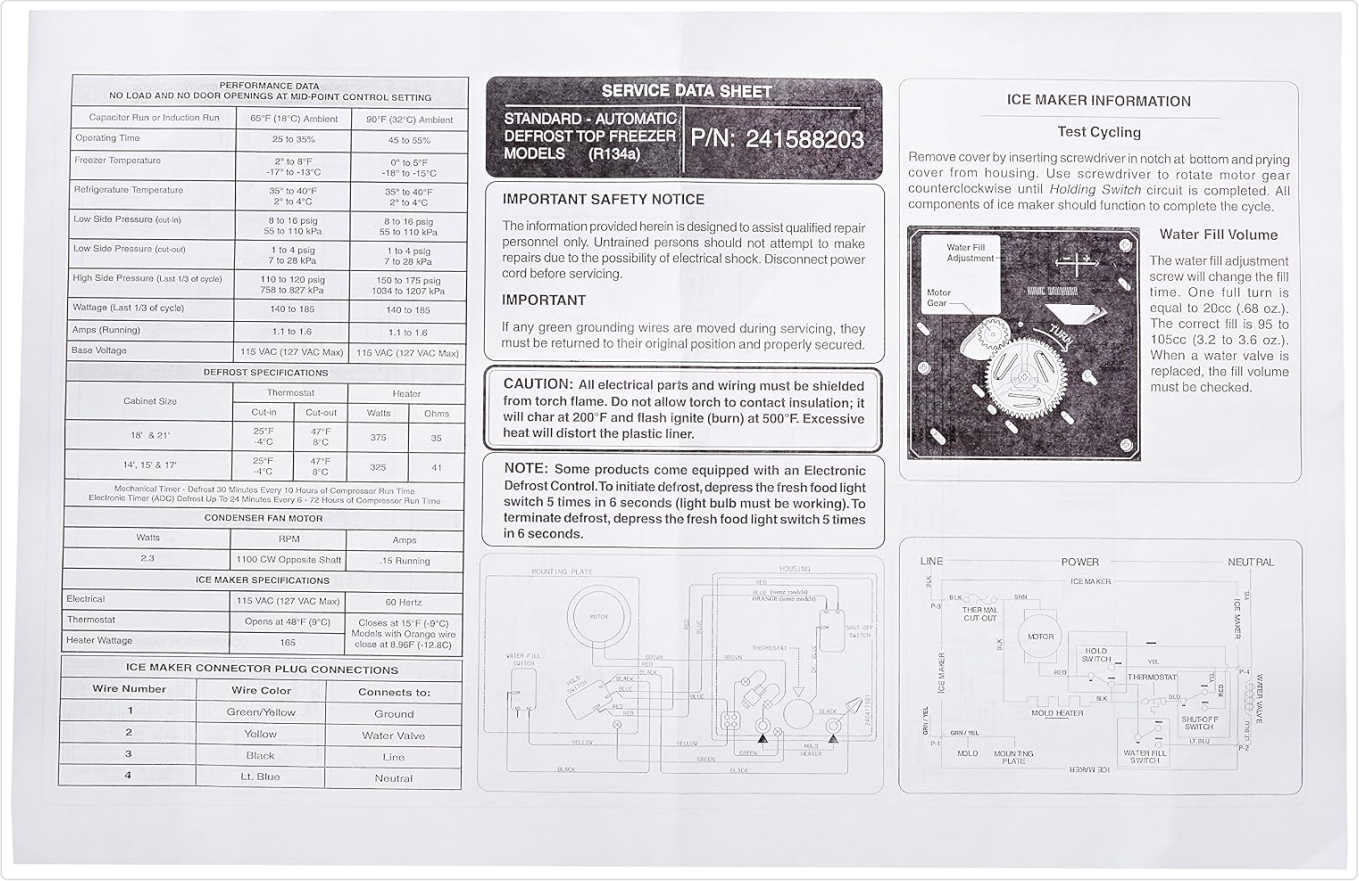
Understanding Performance Data

The "Performance Data and Ice Production Data" section provides crucial operational metrics for the refrigerator and its

ice maker. This data helps in verifying the appliance's performance against factory specifications.

Key Data Points:

- **Operating Time:** Indicates the percentage of time the compressor is expected to run under normal conditions.
- **Freezer Temperature:** Expected temperature range within the freezer compartment.
- **Refrigerator Temperature:** Expected temperature range within the fresh food compartment.
- **Low Side Pressure (cut-in/cut-out):** Refrigerant pressure readings on the low-pressure side of the system.
- **High Side Pressure (Last 10 of cycle):** Refrigerant pressure readings on the high-pressure side.
- **Wattage (Last 10 of cycle):** Power consumption during the last 10 minutes of the cycle.
- **Amps (Running):** Current draw of the compressor during operation.
- **Base Voltage:** Standard operating voltage for the unit.



PERFORMANCE DATA
NO LOAD AND NO DOOR OPENINGS AT MID-POINT CONTROL SETTING

	Capacitor Run or Induction Run	65°F (18°C) Ambient	90°F (32°C) Ambient
	Operating Time	25 to 35%	45 to 55%
	Freezer Temperature	2° to 8°F -17° to -13°C	0° to 5°F -18° to -15°C
	Refrigerature Temperature	35° to 40°F 2° to 4°C	35° to 40°F 2° to 4°C
	Low Side Pressure (cut-in)	8 to 16 psig 55 to 110 kPa	8 to 16 psig 55 to 110 kPa
	Low Side Pressure (cut-out)	1 to 4 psig 7 to 28 kPa	1 to 4 psig 7 to 28 kPa
	High Side Pressure (Last 1/3 of cycle)	110 to 120 psig 758 to 827 kPa	150 to 175 psig 1034 to 1207 kPa
	Wattage (Last 1/3 of cycle)	140 to 185	140 to 185
	Amps (Running)	1.1 to 1.6	1.1 to 1.6
	Base Voltage	115 VAC (127 VAC Max)	115 VAC (127 VAC Max)

DEFROST SPECIFICATIONS

Cabinet Size	Thermostat		Heater	
	Cut-in	Cut-out	Watts	Ohms
18" & 21"	25°F -4°C	47°F 8°C	375	35
14", 15" & 17"	25°F -4°C	47°F 8°C	325	41

Mechanical Timer - Defrost 30 Minutes Every 10 Hours of Compressor Run Time
Electronic Timer (ADC) Defrost Up To 24 Minutes Every 6 - 72 Hours of Compressor Run Time

CONDENSER FAN MOTOR

Watts	RPM	Amps
2.3	1100 CW Opposite Shaft	.15 Running

ICE MAKER SPECIFICATIONS

Electrical	115 VAC (127 VAC Max)	60 Hertz
Thermostat	Opens at 48°F (9°C)	Closes at 15°F (-9°C) Models with Orange wire close at 8.96F (-12.8C)
Heater Wattage	165	

ICE MAKER CONNECTOR PLUG CONNECTIONS

Wire Number	Wire Color	Connects to:
1	Green/Yellow	Ground
2	Yellow	Water Valve
3	Black	Line
4	Lt. Blue	Neutral

SERVICE DATA SHEET

STANDARD - AUTOMATIC DEFROST TOP FREEZER MODELS (R134a)

P/N: 241588203

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NOTE: Some products come equipped with an Electronic Defrost Control. To initiate defrost, depress the fresh food light switch 5 times in 6 seconds (light bulb must be working). To terminate defrost, depress the fresh food light switch 5 times in 6 seconds.

ICE MAKER INFORMATION

Test Cycling

Remove cover by inserting screwdriver in notch at bottom and prying cover from housing. Use screwdriver to rotate motor gear counterclockwise until *Holding Switch* circuit is completed. All components of ice maker should function to complete the cycle.

Water Fill Volume

The water fill adjustment screw will change the fill time. One full turn is equal to 20cc (.68 oz.). The correct fill is 95 to 105cc (3.2 to 3.6 oz.). When a water valve is replaced, the fill volume must be checked.

Image: A section of the Frigidaire 241588203 Tech Data Sheet, highlighting the "Performance Data and Ice Production Data" table. This table lists various operational parameters such as operating time, freezer and refrigerator temperatures, and refrigerant pressures for both 65°F (18°C) and 90°F (32°C) ambient conditions.

Ice Maker Information and Adjustment

This section details the ice maker's operation, testing procedures, and water fill adjustment. Proper ice maker function is crucial for user convenience.

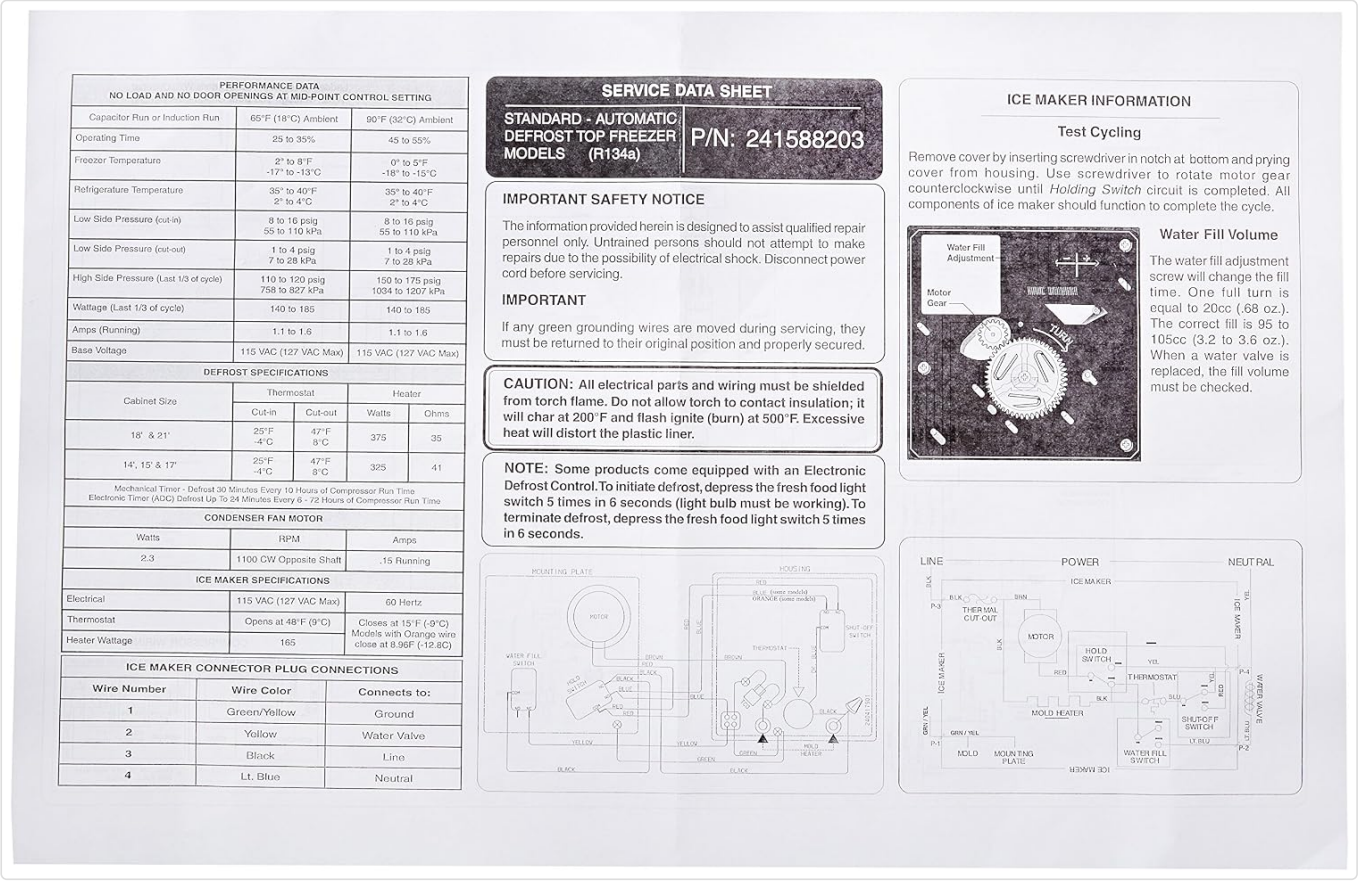
Ice Maker Testing:

To test the ice maker, remove the cover from the ice maker module. Insert a screwdriver into the notch and rotate the

module counter-clockwise until the "Holding Switch" circuit is completed. All components of the ice maker should function to complete the cycle.

Water Fill Volume Adjustment:

The water fill adjustment screw will change the fill time. One full turn is equal to 20cc (0.68 oz.). The correct fill is 95 to 105cc (3.2 to 3.6 oz.). When a water valve is replaced, the fill method must be checked.



PERFORMANCE DATA
NO LOAD AND NO DOOR OPENINGS AT MID-POINT CONTROL SETTING

Capacitor Run or Induction Run	65°F (18°C) Ambient	90°F (32°C) Ambient
Operating Time	25 to 35%	45 to 55%
Freezer Temperature	2° to 8°F -17° to -13°C	0° to 5°F -18° to -15°C
Refrigerature Temperature	35° to 40°F 2° to 4°C	35° to 40°F 2° to 4°C
Low Side Pressure (cut-in)	8 to 16 psig 55 to 110 kPa	8 to 16 psig 55 to 110 kPa
Low Side Pressure (cut-out)	1 to 4 psig 7 to 28 kPa	1 to 4 psig 7 to 28 kPa
High Side Pressure (Last 1/3 of cycle)	110 to 120 psig 758 to 827 kPa	150 to 175 psig 1034 to 1207 kPa
Wattage (Last 1/3 of cycle)	140 to 185	140 to 185
Amps (Running)	1.1 to 1.6	1.1 to 1.6
Base Voltage	115 VAC (127 VAC Max)	115 VAC (127 VAC Max)

DEFROST SPECIFICATIONS

Cabinet Size	Thermostat		Heater	
	Cut-in	Cut-out	Watts	Ohms
18' & 21'	25°F -4°C	47°F 8°C	375	35
14', 15' & 17'	25°F -4°C	47°F 8°C	325	41

Mechanical Timer - Defrost 30 Minutes Every 10 Hours of Compressor Run Time
Electronic Timer (ADC) Defrost Up To 24 Minutes Every 6 - 72 Hours of Compressor Run Time

CONDENSER FAN MOTOR

Watts	RPM	Amps
2.3	1100 CW Opposite Shaft	.15 Running

ICE MAKER SPECIFICATIONS

Electrical	115 VAC (127 VAC Max)	60 Hertz
Thermostat	Opens at 48°F (9°C)	Closes at 15°F (-9°C) Models with Orange wire close at 8.96F (-12.8C)
Heater Wattage	165	

ICE MAKER CONNECTOR PLUG CONNECTIONS

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3	Black	Line
4	Lt. Blue	Neutral

SERVICE DATA SHEET
STANDARD - AUTOMATIC DEFROST TOP FREEZER MODELS (R134a)
P/N: 241588203

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NOTE: Some products come equipped with an Electronic Defrost Control. To initiate defrost, depress the fresh food light switch 5 times in 6 seconds (light bulb must be working). To terminate defrost, depress the fresh food light switch 5 times in 6 seconds.

ICE MAKER INFORMATION

Test Cycling

Remove cover by inserting screwdriver in notch at bottom and prying cover from housing. Use screwdriver to rotate motor gear counterclockwise until *Holding Switch* circuit is completed. All components of ice maker should function to complete the cycle.

Water Fill Volume

The water fill adjustment screw will change the fill time. One full turn is equal to 20cc (.68 oz.). The correct fill is 95 to 105cc (3.2 to 3.6 oz.). When a water valve is replaced, the fill volume must be checked.

Image: A diagram from the Frigidaire 241588203 Tech Data Sheet illustrating the ice maker module, including points for testing and the water fill adjustment screw. This visual aid helps in performing maintenance on the ice maker.

Defrost Specifications

This table outlines the defrost cycle parameters, including cut-in and cut-out temperatures, and heater wattage. These specifications are vital for ensuring the refrigerator's defrost system operates correctly, preventing ice buildup.

Defrost Specifications

Cabinet Size	Thermostat Cut-in	Thermostat Cut-out	Heater Watts	Ohms
16' & 21'	37°F	8°F	375	35
14' - 12' & 17'	37°F	8°F	325	41

Note: Some products come equipped with an Electronic Defrost Control. To initiate defrost, depress the fresh food light switch 5 times in 6 seconds (light bulb must be working). To terminate defrost, depress the fresh food light switch 5 times in 6 seconds.

Electrical and Wiring Information

This section provides details on the electrical components and wiring connections, crucial for diagnosing electrical issues and ensuring correct reassembly after service.

Condenser Fan Motor RPM:

Condenser Fan Motor RPM

Volts	RPM	Amps
2.3	1100 Off Opposite Shaft	.15 Running

Ice Maker Specifications:

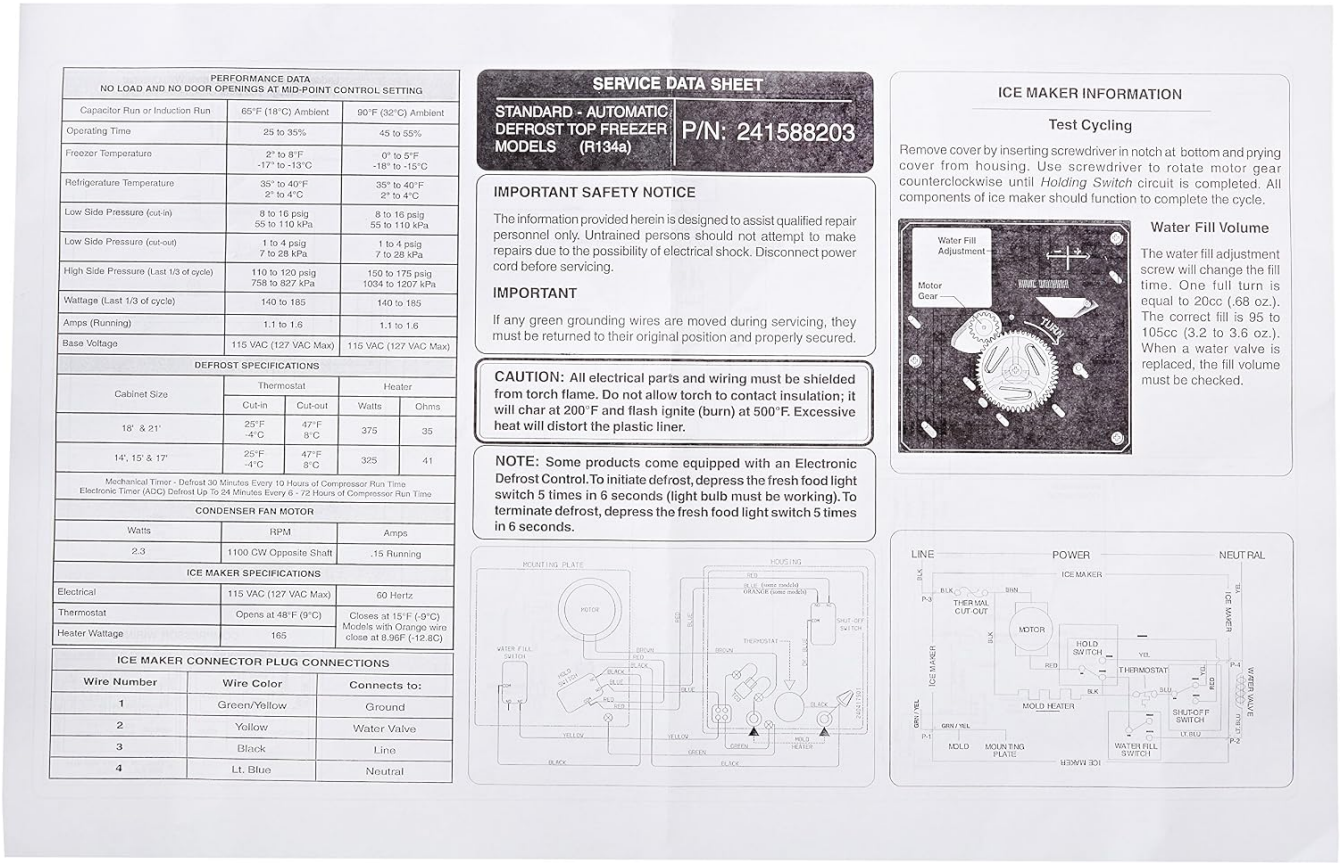
Ice Maker Specifications

	Ice Making (115 VAC)	Hz
Thermostat	Closes at 10°F (9°C)	60
Heater Wattage	165	Closes at 10°F (9°C) / Open at 88°F (31°C)

Ice Maker Connector Plug Connections:

Ice Maker Connector Plug Connections

Wire Number	Wire Color	Connects to:
1	Green/Yellow	Ground
2	Yellow	Water Valve
3	Black	Line
4	Lt. Blue	Neutral



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SERVICE DATA SHEET

STANDARD - AUTOMATIC DEFROST TOP FREEZER MODELS (R134a)

P/N: 241588203

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Image: A detailed wiring diagram from the Frigidaire 241588203 Tech Data Sheet, showing connections for the ice maker, power, and other electrical components. This diagram is essential for electrical troubleshooting and repair.

Product Specifications (Data Sheet Itself)

This section provides physical specifications of the Frigidaire 241588203 Tech Data Sheet document.

- **Manufacturer:** Frigidaire
- **Part Number:** 241588203
- **Product Dimensions:** 27.94 x 21.59 x 0.03 cm
- **Item Model Number:** 241588203
- **Item Package Quantity:** 1
- **Item Weight:** 408 g
- **ASIN:** B00PU1IBBE
- **Date First Available:** 27 May 2015

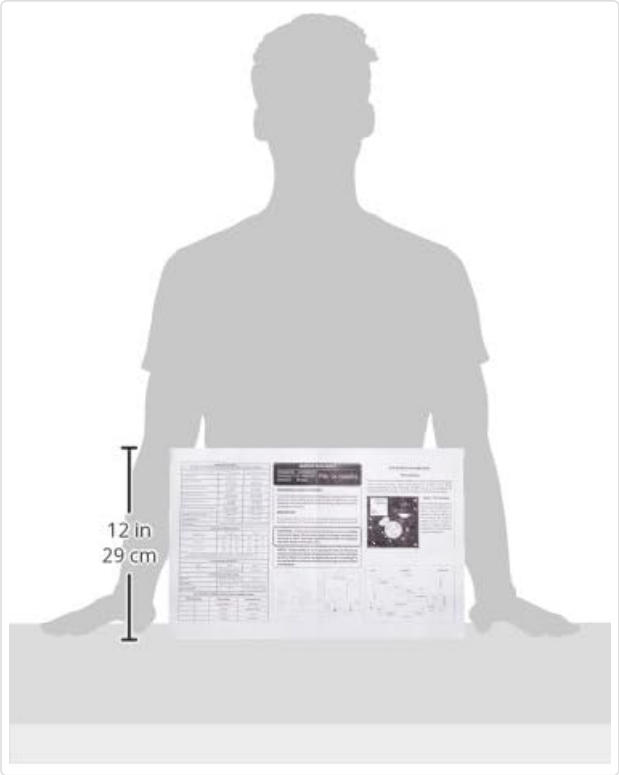


Image: A visual representation of the Frigidaire 241588203 Tech Data Sheet, indicating its physical dimensions (12 inches or 29 cm in height) to provide a sense of scale.

Troubleshooting Guidance

While this document is a data sheet and not a direct troubleshooting guide, it provides the foundational data necessary for diagnosing issues with your Frigidaire refrigerator. Refer to the relevant sections based on the symptom:

- **Refrigerator not cooling or freezing properly:** Consult the Performance Data section to check if operating temperatures and pressures are within specified ranges.
- **Ice maker not producing ice or overflowing:** Refer to the Ice Maker Information and Adjustment section for testing procedures and water fill volume.
- **Excessive frost buildup:** Review the Defrost Specifications to verify defrost cycle parameters.
- **Electrical issues or component failure:** Examine the Electrical and Wiring Information, including wiring diagrams and connector plug connections, for proper electrical paths.

Always ensure power is disconnected before attempting any inspection or repair based on this data sheet.

Support and Genuine Parts

This Frigidaire 241588203 Tech Data Sheet is a genuine replacement part document. For further support regarding your Frigidaire appliance or to inquire about genuine replacement parts, please contact Frigidaire customer service or an authorized service technician.
Using genuine parts and referring to official technical documentation like this data sheet ensures the longevity and proper functioning of your appliance.

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