

8145 20 defrost timer wiring diagram

8145 20 Defrost Timer Wiring Diagram: A Comprehensive Guide

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Publisher: Appliance Repair Central, a leading online resource providing DIY repair guides and technical information for household appliances. We are committed to providing accurate and up-to-date information for homeowners and technicians alike.

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Summary: This comprehensive guide provides a detailed explanation of the 8145 20 defrost timer wiring diagram. It covers understanding the components, troubleshooting common problems, safe wiring practices, and avoiding pitfalls during installation or repair. We also delve into best practices for ensuring the longevity of your defrost system.

Understanding the 8145 20 Defrost Timer Wiring Diagram

The 8145 20 defrost timer is a crucial component in your refrigerator's defrost system. Its primary function is to control the heating element and defrost drain, ensuring efficient defrosting and preventing ice buildup. The wiring diagram itself is a visual representation of the electrical connections within the timer. Understanding this diagram is essential for proper installation, troubleshooting, and repair. A typical 8145 20 defrost timer wiring diagram will show the connections for:

Power Input: This is where the main power supply connects to the timer.

Compressor Run: This terminal controls the operation of the refrigerator's compressor.

Defrost Heater: This terminal energizes the defrost heating element, melting the ice buildup.

Defrost Thermostat: This terminal connects to the defrost thermostat, which senses the temperature and signals when defrosting is complete.

Defrost Drain Heater (if applicable): Some models include a drain heater to assist in melting ice in the drain line.

Timer Motor: This terminal provides power to the timer's motor, enabling the cycling of the defrost process.

Common Components Shown in the 8145 20 Defrost Timer Wiring Diagram

The 8145 20 defrost timer wiring diagram will typically highlight several key components:

The Timer itself: This is the central component, responsible for sequencing the defrost cycle.

The Defrost Heater: This resistive heating element melts the frost accumulation.

The Defrost Thermostat: A temperature sensor that signals the end of the defrost cycle.

The Compressor Relay (if applicable): This might be integrated into the timer or a separate component. It controls the compressor's operation.

The Drain Heater (if applicable): A small heating element located near the drain to prevent ice blockage.

Troubleshooting Common Issues Using the 8145 20 Defrost Timer Wiring Diagram

Many refrigerator problems stem from malfunctions in the defrost system. The 8145 20 defrost timer wiring diagram becomes critical in troubleshooting. Common issues and their possible causes:

No Defrosting: Check the power supply to the timer, the defrost thermostat, and the defrost heater using a multimeter. A faulty timer, thermostat, or heater could be responsible. The wiring diagram helps trace these connections.

Constant Defrosting: This could indicate a faulty defrost thermostat, constantly signaling for defrost. The wiring diagram helps pinpoint the thermostat's connection for testing and replacement.

Compressor Not Running: This issue might be related to the compressor relay, if it's integrated into the timer. The diagram shows the relay's position and connectivity.

Intermittent Defrosting: This could be due to a failing timer motor, worn-out contacts within the timer, or problems with other components connected in the circuit. Carefully examining the wiring diagram helps identify the source.

Best Practices for Working with the 8145 20 Defrost Timer Wiring Diagram

Before working on any electrical appliance, always disconnect the power supply. This is crucial for safety. When referring to the 8145 20 defrost timer wiring diagram:

Use a multimeter: This allows you to test the continuity of wires, resistance of the heating elements, and voltage at various points.

Trace the wiring carefully: Follow the diagram and the wires systematically to avoid mistakes.

Use appropriate tools: Having the right tools, including screwdrivers, pliers, and wire strippers, is essential for a safe and efficient repair.

Take clear photos: Before disconnecting anything, take photos to help you remember the wiring configuration.

Consult a professional: If you're unsure about any step, consult a qualified appliance repair technician.

Common Pitfalls to Avoid When Using the 8145 20 Defrost Timer Wiring Diagram

Incorrect wire connections: Make sure to connect the wires according to the diagram's color codes and terminal markings. Incorrect connections can lead to damage or malfunction.

Overtightening screws: This can damage the timer or other components. Tighten screws firmly but avoid over-tightening.

Ignoring safety precautions: Always disconnect the power supply before working on the appliance.

Using incorrect replacement parts: Ensure you use a genuine replacement part that's compatible with your specific model.

Improper grounding: Ensure the appliance is properly grounded to prevent electrical shocks.

Conclusion

The 8145 20 defrost timer wiring diagram is a vital tool for understanding and repairing your refrigerator's defrost system. By understanding the diagram, employing safe practices, and avoiding common pitfalls, you can successfully troubleshoot and repair common issues. Remember to prioritize safety and always disconnect the power before working on any electrical appliance. If you lack experience, seeking professional help is always the best course of action.

FAQs

1. Where can I find the 8145 20 defrost timer wiring diagram? You can often find this diagram within the appliance's service manual or online through appliance parts websites.
1. What tools do I need to work with the 8145 20 defrost timer? You'll need screwdrivers (Phillips and flathead), pliers, wire strippers, and a multimeter.
1. How can I test the defrost heater using the diagram? Use a multimeter to check the resistance of the heater. The diagram will show where the heater connects.
1. What does it mean if my defrost timer is constantly running? This could indicate a faulty defrost thermostat. Check its continuity and replace it if necessary.
1. Can I replace the 8145 20 defrost timer myself? Yes, but it requires

some electrical knowledge and care. Disconnect power first!

1. What if I can't find a replacement 8145 20 defrost timer? You may find a compatible substitute, but ensure it's electrically compatible.
1. Is it safe to work on a refrigerator's electrical system? Only if you are properly trained and understand electrical safety procedures. Otherwise, call a professional.
1. My refrigerator is still not working after replacing the timer. What could be wrong? Other components may be faulty; check the defrost thermostat, heater, and compressor.
1. How often should I expect to replace the 8145 20 defrost timer? This depends on usage and maintenance; it can last for many years but can wear out eventually.

Related Articles

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3. How to Test a Defrost Thermostat: A step-by-step guide on testing a defrost thermostat with a multimeter.
4. Refrigerator Repair Safety Tips: Emphasizing safety measures before attempting any repair.
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anteater. He has his favorite toys, his favorite song, his favorite food . . . Ants! They're the best! But when Andy goes for a sleepover with his favorite friend, Sam Sloth, he's faced with unfamiliar things to play with—and strange new foods for dinner. Jashar Awan's winning and gently funny story celebrates trying something new and finding out it might be more fun—and tastier—than it looks.

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ubiquitous than ever. Perl is extremely flexible and powerful, and it isn't afraid of Web 2.0 or the cloud. Originally touted as the duct tape of the Internet, Perl has since evolved into a multipurpose, multiplatform language present absolutely everywhere: heavy-duty web applications, the cloud, systems administration, natural language processing, and financial engineering. *Beginning Perl, Third Edition* provides valuable insight into Perl's role regarding all of these tasks and more. Commencing with a comprehensive overview of language basics, you'll learn all about important concepts such as Perl's data types and control flow constructs. This material sets the stage for a discussion of more complex topics, such as writing custom functions, using regular expressions, and file input and output. Next, the book moves on to the advanced topics of object-oriented programming, modules, web programming, and database administration with Perl's powerful database interface module, DBI. The examples and code provided offer you all of the information you need to start writing your own powerful scripts to solve the problems listed above, and many more. Whether you are a complete novice or an experienced programmer, *Beginning Perl, Third Edition* offers an ideal guide to learning Perl.

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Marcia J. Bunge, 2012-09-27 Collected essays discussing religious and ethical perspectives on children and obligations to them within the religious traditions of Judaism, Christianity and Islam. Contributes to intellectual inquiry regarding children in the specific areas of children's rights and childhood studies, and provides resources for child advocates and those engaged in interreligious dialogue.

Additional Resources

8000 AUTO VOLTAGE DEFROST SERIES TIMERS

8145-AV Auto Voltage Defrost Timer in Metal Casing 8145-AV-M Auto Voltage Defrost Timer Mechanism Only Ratings Terminal 3 and 5 40A Resistive 120-277V @AC 3HP Motor 240V AC ...

PARAGON® - SupplyHouse.com

8143-20 208-240 Open Closed Open 8145-00 120 None Open Closed 8145-20 208-240 None Open Closed 8240 SERIES • Frequency of defrost is 1-6 cycles per day. Minimum of 4 hours ...

Single Condenser Defrost Time Clock Board - Copeland

defrost timer board can then be mounted inside the snap track. The defrost timer board is wired to an 8R0 board (or the XM, XR controller outputs - labeled "Dixell Fan") as shown in the ...

Binder 1 - HTPG

NO. 8145-201230V/1Z NO. 8145-20/230V/1Z 'PARAGON TIMER .PARAGON TIMER / Multiple Unit Wiring Page 5 Thermostat (16 amps max) Adjustable Remote Bulb HOT GAS DEFROST ...

Installation & Operating Instructions DTAV40 Series Time ...

The DTAV40 Defrost Timer is equivalent in function, terminal identification (with appropriate terminal block label attached), and wiring to the Paragon 8140 and Precision 6140 series ...

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Russell Inter temp IOM 102 1 - Hillphoenix

See the unit rating label for electrical requirements. The wiring diagram is located in the end panel of ... 3. Timer terminals are for Paragon 8145-20 4. For motor and heater amps see the rating ...

8000 MECHANICAL Series DEFROST - Amazon Web Services, ...

8145-20 208-240 None Open Closed Bracket available and 50 Hz. Applications and Wiring Diagrams MECHANICAL DEFROST TIMER 8000 Series. Applications and Wiring Diagrams ...

Reach-In Unit Coolers - Heatcraft Refrigeration Products

Description All Sizes Part Number 115V Motor 25 00701 208/2 0V Motor 25 00801 Fan Blade 5101B Fan Guard 5054D Motor Mount 91179001 Thin Profile Air Defrost Unit Cooler

Installation & Operating Instructions DTAV40VM Series Time ...

Defrosts will be initiated by programming the timer, which will accept from 1 to over 24 defrost initiation settings per day at 15 minute intervals (8:00 AM, 8:15 AM, 8:30 AM, etc) Defrost ...

INSTALLATION DATA 8000 Series Auto voltage defrost timer

Auto voltage defrost timer INSTALLING AND OPERATING DIRECTIONS ... the wiring diagram chosen. (Default setting B). SUPPLY CONNECTIONS USE GAGE SPECIFIED SUITABLE ...

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Auto voltage defrost timer INSTALLING AND OPERATING DIRECTIONS ... the wiring diagram chosen. (Default setting B). SUPPLY CONNECTIONS USE GAGE SPECIFIED SUITABLE ...

Installation and Operation Manual - Heatcraft Refrigeration ...

connected according to the wiring diagram. (e) The factory installed wiring and piping must not be changed without written factory approval. (f) All equipment is installed in accordance with ...

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8145 20 Defrost Timer Wiring Diagram eBook Subscription Services 8145 20 Defrost Timer Wiring Diagram Budget-Friendly Options 6. Navigating 8145 20 Defrost Timer Wiring Diagram eBook ...

REFRIGERATION - HVACRMART

8145-AV Auto Voltage Defrost Timer in Metal Casing 8145-AV-M Auto Voltage Defrost Timer Mechanism Only Specifications Replacement Information ... 8145-00 8145-20 8243-20 8245-20 ...

serie Temporizador 8000 descongelamiento - Everwell Parts, ...

modelos 8143-00 y 8143-20 modelos 8145-00, 8145-20 y e357-00 modelos 8141-00 Y 8141-20 modelos 8143-00 Y 8143-20 modelos 8141-00 Y 8141-20 modelos 8145-00 Y 8145-20 191 E. ...

8000 MECHANICAL DEFROST Series TIMER

DEFROST TIMER. An ISO 9001 - 2008 Certified Company ... 8145-20 208-240 None Open Closed Bracket available and 50 Hz. ... TIMER 8000 Series. Applications and Wiring ...

MODEL G8000 Series Mechanical Defrost Timer

Insert screwdriver into slot on G8000 Defrost Timer and re-move it from the Intermatic enclosure. See Figure 1. 5. If necessary, snap the tabs off the G8000 Defrost Timer with your fingers or ...

SERVICE AND WIRING SHEET - whirlpooldigitalassets.com

95 20 100 20 110 20 105 20 150 20 200 20-4 to 6 0 to 7 2 to 8 ... defrost timer (opt) 2162045 adaptive defrost ** (opt) adc/filter indicator (opt) ... wiring diagram w10520278 a service & ...

Load - ReFridge Walk-in Cooler Parts

To Wire: Wire according to wiring diagram and conform to ... DEFROST CONTROL MODEL 6145-20 15 VA Input Hour Hour CONTACT RATING 40 Amps Res. VA Pilot Duty VAC TIME ...

KR Series Electric Defrost Unit Coolers

Refer to figures 1-5 for unit wiring: Figure 2 illustrates the wiring for a single unit with the defrost heaters wired for 208/230/60/1 operation. Figure 3 illustrates the wiring for a single unit with the ...

SERVICE AND WIRING SHEET - whirlpooldigitalassets.com

The continuous defrost feature is controlled in the following manner: 1. Defrost Heat - During the defrost cycle the heater is energized continuously for the required time. This on/off cycle is ...

DTMV40 Time Initiated, Temperature, Pressure or Time ...

1. Remove timer mechanism by releasing spring clip on bottom. 3. Select knockouts to be used. Remove inner 1/2" knockout by inserting a screwdriver in the slot and carefully punch knockout ...

Paragon 8045-20 defrost timer wiring diagram - Weebly

Paragon 8045-20 defrost timer wiring diagram Tap image to zoom. Roll over image to zoom. Paragon 8040 series defrost timer Defrost frequency is one to six cycles per day Adjustable ...

Service and Wiring Sheet - W10641015 - Whirlpool

%PDF-1.5 %
23 0 obj > endobj 43 0 obj >stream 4
2017-10-06T14:35:03.501-04:00 Acrobat Distiller 11.0 (Windows) GATHIAM ...

DTMV40 Time Initiated, Temperature, Pressure or Time ...

DTMV40 Time/Temp.-Electric Defrost Wiring diagram 8145 Replacement 5 Mode A - No Label Required THERMOSTAT THERMOSTAT COMPRESSOR OR SOLENOID VALVE OR ...

Condensing Unit Installation and Maintenance - uri

Oct 11, 2020 · For systems with a defrost time clock, the liquid line solenoid and thermostat should be energized by the time clock. Initially set the defrost time clock (model 8145) as ...

9145 / 9045 UNIVERSAL Series DEFROST TIMERS

Specifications 9145 Terminal Data* 90 45 Terminal Data* Ordering Information UNIVERSAL DEFROST TIMERS 9145 / 9045 Series Input Power 120/208-240 VAC 60 Hz (+10, -15%)

Wiring Diagrams - Carrier

1. short for 5+ sec. and release for forced defrost. 3) permanent short will be ignored. defrost will terminate in 30 sec. if dft open. defrost will terminate normally if dft is closed. * may be factory ...

DTAV40 Series - Southern Pipe

temperature or pressure switch. The time termination functions as a fail-safe and terminates the defrost cycle if the temperature or pressure switch fails to do so. SUPCO P/L S814120 ...

WIRING DIAGRAM - Nortek HVAC

wiring diagram 6710335 Defrost board operation: closes during defrost. rating: 1 a maximum closed when "y" is energized. open when "y" is deenergized. provides "off" delay time of 5 min ...

Freezer Defrost Timer Wiring Diagram (2024)

in refrigeration cycle operation, and change position upon initiation of a defrost. Step-by-Step Guide: Paragon 8145-20 Defrost Timer Wiring Freezer Service Manual Defrost events should ...

Commercial Refrigeration Basics - waterheatertimer.org

Defrost Control Concept • Defrost Control - Prevents build of frost or ice - Heat output is provided by electric or hot gas defrosts • Defrost can occur manually or automatically • Defrost include ...

Intermatic-Defrost-timers-and-manuals.html Installation

value as set on the Paragon defrost timer being replaced. Set cut-out 6 to 14 psi below cut-in. See wiring diagrams 2 and 7. F 3 1 2 4 N X F 3 1-N 2 4 Xp p N 1 3 2 4 Xp p N 1 3 2 4 X 1 N 3 4 2 X ...

WIRING DIAGRAM - ICM CONTROLS

DEFROST TIMER WIRING DIAGRAM SPECIFICATIONS Input • Voltage: 18-30 VAC • Frequency: 50-60 Hz • Power Consumption: 1 watt maximum Output • O, W2: - Type: Relay - ...

DTAV40 Series - coburns.com

The defrost timer shall be housed in a UL Type 3R indoor/outdoor plastic enclosure or UL Type 1 metallic enclosure. The relay output will be rated for 40A Resistive, 2 HP @ 240 VAC. Defrost ...

defrost timers - insco.com

8145-AV50 8145-AV50M Auto Voltage Defrost Timer in Metal Casing, 50 Hz Auto Voltage Defrost Timer Mechanism Only, 50 Hz 40 Amps Resistive 120-240V AC 3 HP Motor 240V AC 1.5 HP ...

THEM ALL) DTAV40-M 8041-00 Defrost Timer, 120V (Closed, ...

8141-20 Defrost Timer, 208-240V (C, O, C), Remote Temp or Pressure Terminated
8143-20 Defrost Timer, 208-240V (O,C,O), Remote Temp or Pressure Terminated
8145-20 Defrost ...

How to test Paragon 8145-20 defrost timer.

8145-20 defrost timer. Timer dial should rotate continuously, and keep good time. Trippers are attached to edge of dial. When trippers reach the trip switch, the timer relay turns on and ...

WIRING DIAGRAM - ICM CONTROLS

WIRING DIAGRAM 24 VAC Outdoor Fan Compressor COM NC High temperature and pressure limit switch T'stat "Y" To T'stat "L" From T'stat "O" Reversing Valve Heat Contactor R W2 RV O ...

DTMV40 Time Initiated, Temperature, Pressure or Time ...

DTMV40 Time/Temp.-Electric Defrost Wiring diagram 8145 Replacement 5 Mode A - No Label Required THERMOSTAT THERMOSTAT COMPRESSOR OR SOLENOID VALVE OR ...

Timers - extant.gr

Wiring Diagram Models 8145-00, 8145-20 and E357-00 - Wiring Diagram Wiring using 120V or 240V single phase line with compressor thermostat closed during defrost. ... available to fi t in ...

Universal Electronic EDT11 DEFROST TIMER EDT21 - Baker Dist

DEFROST TIMER Universal Electr onic 3/4 H.P. 12-4609 and 12-9282. ... four-wire adapter harness kit if needed. Wire harness lead 1 to No. 3 of the original wiring, lead 2 to No. 4, lead 3 ...

Installation & Operating Instructions DTAV40 Series Time ...

replace the Paragon 8240 series pressure terminated defrost timers. Defrosts will be initiated by programming the timer, which will accept from 1 to over 24 defrost initiation settings per day at ...

Paragon digital defrost timer wiring diagram

Paragon digital defrost timer wiring diagram ... Defrost Timer - Mechanism Only Initiate 15 Minute Manual Defrost Specifications Input Power 120/208-240 VAC 60 Hz (+10, -15%) Power ...

WIRING DIAGRAM - ICM CONTROLS

DEFROST TIMER SPECIFICATIONS Input • Voltage: 18-30 VAC • Frequency: 50-60 Hz • Power Consumption: 1 watt maximum Output • O, W2: ... • Low cost time and temperature defrost ...

Installation and Table of Contents Operation Manual

properly connected according to the wiring diagram. (e) The factory installed wiring must not be changed ... 25' 2' 20' 3' 40' 3' 40' 6' NOTE: Leave space equal to unit height between bottom of ...

defrost timers

8145-AV50 8145-AV50M Auto Voltage Defrost Timer in Metal Casing, 50 Hz Auto Voltage Defrost Timer Mechanism Only, 50 Hz 40 Amps Resistive 120-240V AC 3 HP Motor 240V AC 1.5 HP ...

WARNING Table 1. Applicable Defrost Controls - AC Pro

The defrost control includes the combined functions of a time/temperature defrost control, defrost relay, time delay, diagnostic LEDs, and a terminal strip for field wiring connections. The control ...

1970 Chevelle Wiring Diagram (Download Only) - x-plane.com

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8145 20 Defrost Timer Wiring Diagram

8145 20 Defrost Timer Wiring Diagram

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