



Whirlpool 8178501A Manual

Fast fill dispenser system

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CONSUMER SERVICES TECHNICAL

R-101

EDUCATION GROUP PRESENTS



DISPENSER



SYSTEM SYSTEM



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Related Manuals for Whirlpool 8178501A

[Dispenser Whirlpool Load & Go Quick Start Manual](#)

(2 pages)

[Dispenser Whirlpool Vessi Use And Care Manual](#)

Fermentor & dispenser (40 pages)

[Dispenser Whirlpool W11411645A Quick Start Manual](#)

Water and ice dispenser controls (9 pages)

[Dispenser Whirlpool HDIOOOXS Use And Care Manual](#)

Whirlpool hot water dispenser use and care guide hdioooxs (6 pages)

Summary of Contents for Whirlpool 8178501A

[Page 1](#) CONSUMER SERVICES TECHNICAL R-101 EDUCATION GROUP PRESENTS FAST FILL DISPENSER SYSTEM JOB AID Part No. 8178501A...

[Page 2](#) FORWARD This Whirlpool Job Aid, "Fast Fill Dispenser System" (Part No. 8178501A), provides the technician with information on the operation and service of the Fast Fill Dispenser System. For specific information on the model being serviced, refer to the "Use and Care Guide," or "Tech Sheet"...

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[Page 5: General](#)

GENERAL REFRIGERATOR SAFETY Your safety and the safety of others is very important. We have provided many important safety messages in this Job Aid and on the appliance. Always read and obey all safety messages. This is the safety alert symbol. This symbol alerts you to hazards that can kill or hurt you and others.

[Page 6: Model & Serial Number Designations](#)

MODEL & SERIAL NUMBER DESIGNATIONS WHIRLPOOL MODEL NUMBER MODEL NUMBER PRODUCT GROUP G = WHIRLPOOL GOLD PRODUCT IDENTIFICATION S = SXS CONTOUR DOOR F = FORMED DOOR CAPACITY/CUBIC FOOT SIZE 6 = 26 MODEL SERIES N = FAST FILL MODEL FEATURES...

[Page 7](#) KITCHENAID MODEL NUMBER MODEL NUMBER PRODUCT GROUP K = KITCHENAID PRODUCT IDENTIFICATION SR = SxS MERCHANDISING SCHEME/SERIES T = CONTOURED DOORS F = FORMED DOORS N = FLAT DOORS CAPACITY/CUBIC FOOT SIZE MODEL FEATURES YEAR OF INTRODUCTION R = 2005 COLOR CODE BL = BLACK WH = WHITE...

[Page 8: Model & Serial Number Label Locations](#)

MODEL & SERIAL NUMBER LABEL LOCATIONS WHIRLPOOL MODEL Model & Serial Number Label

[Page 9: Whirlpool Refrigerator Warranty](#)

On models with a water filter: 30 day limited warranty on water filter. For 30 days from the date of purchase, when this filter is operated and maintained according to instructions attached to or furnished with the product, Whirlpool Corporation or Whirlpool Canada LP will pay for replacement parts to correct defects in materials and workman- ship.

[Page 10: Kitchenaid Refrigerator Warranty](#)

KITCHENAID REFRIGERATOR WARRANTY ONE-YEAR LIMITED WARRANTY For one year from the date of purchase, when this refrigerator (excluding the water filter) is operated and main- tained according to instructions attached to or furnished with the product, KitchenAid or KitchenAid Canada will pay for factory specified parts and repair labor costs to correct defects in materials or workmanship.

[Page 11: Product Operation](#)

PRODUCT OPERATION FAST FILL DISPENSER SYSTEM OVERVIEW FUNCTIONS AND FEATURES Dispenser Area The primary functions of the Fast Fill Dispenser The core control is attached to the dispenser System are: housing and controls the dispenser motor, ice door motor, dispenser housing and ice •...

[Page 12](#) Ice Dispenser Motor Ice Door And Housing Heaters All Fast Fill Dispenser System models will have The housing heater is a 120 volt AC, 2.25 watt IDI, (In-Door Ice). A bridge rectifier on the core heater. Service doors for refrigerators with control will rectify 120 volts AC to 120 volts DC stainless steel door skins will have additional for the ice dispenser motor.

[Page 13](#) OPERATION The following sequence occurs: The units of measure are selected. Water Dispensing The volume of water requested is en- NORMAL FILL tered. Normal fill is when the customer presses the The water keypad is pressed or the water fill pad or holds the fill button. While water is dispenser activation pad is held closed.

[Page 14](#) Ice Dispensing The core control outputs the square wave to the ice door motor for approximately IDI ice dispensing is the same as in Side-By- 1 second, and at the same time, the IDI Side IDI electronic dispensers, with the addition motor is energized on P2-1 and P2-2 with of an ice door that is powered open and closed 120 volts DC.

[Page 15: Component Access](#)

COMPONENT ACCESS This section instructs you on how to service the Fast Fill Dispenser System in the Side-By-Side Refrigerator. The components and their locations are shown below. COMPONENT LOCATIONS Dispenser Cover Assembly Dispenser Ice Door Motor Water Tube User Interface &...

[Page 16: Removing The Water And Ice Dispenser Components](#)

REMOVING THE WATER AND ICE DISPENSER COMPONENTS Pull out at the bottom, lift up on the dis- penser cover assembly, and remove the assembly from the refrigerator door. Electrical Shock Hazard Disconnect power before servicing. Replace all parts and panels before operating.

[Page 17](#) To remove the ice door motor: Motor Wires Water Tube a) Remove the two screws from the ice door assembly, and remove the as- sembly from its housing. Clip Clip b) Disconnect the motor wire connector from the core board at P5. Ice Door Motor Screws Nozzle &...

[Page 18](#) To remove the core board: To remove an ice or water pad switch: a) Remove the wire connectors from P1, a) With the back of the dispenser cover P2, P3, P5, P6, and P7. assembly facing up, press the release tab in on the wire connector, and pull the b) Unclip the tabs at the top of the board, connector off the user interface board...

[Page 19](#) To remove the user interface board: b) Carefully lift one of the corners of the user interface, and peel it off the dis- a) With the back of the dispenser cover penser cover assembly. assembly facing up, disconnect the ice and water pad switch connectors.

[Page 20](#) 12. To remove the IDI motor: e) Remove the boot from the top of the IDI motor. a)

Open the freezer door. f) Disconnect the motor connector from b) Press in on the release button and re- the IDI motor. move the ice bin from the door shelf.

[Page 21](#) 13. To remove the water dispenser nozzle: c) Remove the cover from the water nozzle housing. a) Push down on the blue quick-discon- d) Unclip the water nozzle and remove it nect locking ring, and pull the water from the housing. tube from the fitting.

[Page 22: Removing The Freezer Door Dispenser Supply Harness And Water Tube](#)

REMOVING THE FREEZER DOOR DISPENSER SUPPLY HARNESS AND WATER TUBE b) Remove the dispenser cover assembly (see page 3-2 for the procedure). c) Disconnect harness connectors P1 and P7 from the core board. d) Disconnect the ground wire screw. Ground Wire Screw Electrical Shock Hazard Disconnect power before servicing.

[Page 23](#) c) Push down on the blue quick-discon- d) Push down on the blue quick-discon- nect locking ring, and pull the dispenser nect locking ring, and pull the water water tube from the fitting. Allow any tube from the fitting. water to drain into the container or onto the towel.

[Page 24: Removing The Smart Valve](#)

REMOVING THE SMART VALVE Remove the two screws from the smart valve bracket, and remove the assembly from the side of the refrigerator. Electrical Shock Hazard Disconnect power before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock.

[Page 25: Removing The Freezer Door](#)

REMOVING THE FREEZER DOOR Using a screwdriver, pry out on the harness connector locking tab, and disconnect the harness connector from the unit. Place a towel or a small container under the freezer door hinge to catch any water in the tubing when it is disconnected. Push down on the blue quick-disconnect Electrical Shock Hazard locking ring, and pull the door water tube...

[Page 26](#) NOTE: Support the freezer door so that it does 12. Partially open the freezer door and lift it not fall in the next step. off the bottom hinge pin. Guide the wires and tubing through the hinge opening, and 11. With the freezer door closed, remove the remove the door.

[Page 27: Component Testing](#)

COMPONENT TESTING Before testing any of the components, perform Check all connections before replacing com- ● the following checks: ponents, looking for broken or loose wires, failed terminals, or wires not pressed into The most common cause for control failure ●...

[Page 28: Idi Motor](#)

IDI MOTOR SMART VALVE COILS Refer to page 3-2 for the procedure for access- Refer to page 3-10 for the procedure for ac- ing the IDI motor. cessing the smart valve. Unplug refrigerator or disconnect power. Unplug refrigerator or disconnect power. Disconnect the IDI motor connector.

[Page 29: Diagnostics & Troubleshooting](#)

DIAGNOSTICS & TROUBLESHOOTING DIAGNOSTICS Use the following procedure to enter the diag- 5. All buttons and pads are inoperative, ex- nostics mode: cept for those described in the actions for each step. 1. Make sure that the unit is not in the "lock- out"...

[Page 30](#) WHIRLPOOL MODELS...

[Page 31](#) KITCHENAID MODELS...

[Page 32](#) MODULAR ICE MAKER & ICE LEVEL DETECTOR MODELS...

[Page 33: Troubleshooting](#)

TROUBLESHOOTING Flowcharts The flowcharts on the following pages are intended to be used with the Diagnostics Charts. If a problem occurs during the diagnostics tests, refer to the

flowcharts to help locate and correct it. The flowcharts cover the following problems: 1.

[Page 37](#) dispense. water test button water then water Press START...

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[Page 40](#) 5-12...

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[Page 42](#) — NOTES — 5-14...

[Page 43: Wiring Diagrams](#)

WIRING DIAGRAMS WHIRLPOOL MODELS WIRING DIAGRAM 1 Color Code: See A On "Wiring Diagram 2" See B On "Wiring Diagram 2"...

[Page 44](#) WIRING DIAGRAM 2...

[Page 45](#) SCHEMATIC DIAGRAM 1 Color Code:...

[Page 46](#) SCHEMATIC DIAGRAM 2...

[Page 47: Wiring Diagram](#)

KITCHENAID MODELS WIRING DIAGRAM 1 Color Code: See A On "Wiring Diagram 2" See B On "Wiring Diagram 2"...

[Page 48](#) WIRING DIAGRAM 2...

[Page 49](#) SCHEMATIC DIAGRAM 1 Color Code:...

[Page 50](#) SCHEMATIC DIAGRAM 2...

[Page 51: Product Specifications](#)

PRODUCT SPECIFICATIONS WARRANTY INFORMATION SOURCES IN THE UNITED STATES: FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL: FOR WHIRLPOOL PRODUCTS: 1-800-253-1301 FOR KITCHENAID PRODUCTS: 1-800-422-1230 FOR ROPER PRODUCTS: 1-800-447-6737 FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL: THE TECHNICAL ASSISTANCE LINE: 1-800-253-2870...

[Page 52](#) CORPORATION...

This manual is also suitable for: