

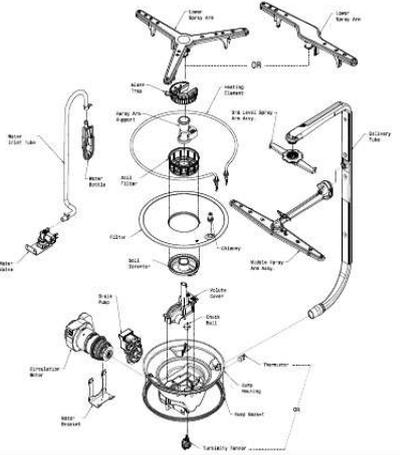


Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for FRIGIDAIRE FDB1502RGC. You'll find the answers to all your questions on the FRIGIDAIRE FDB1502RGC in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual FRIGIDAIRE FDB1502RGC User guide FRIGIDAIRE FDB1502RGC Operating instructions FRIGIDAIRE FDB1502RGC Instructions for use FRIGIDAIRE FDB1502RGC Instruction manual FRIGIDAIRE FDB1502RGC

Exploded View of Wash System



Pump Assembly

The pump assembly is driven by a synchronous motor. Rotation is in the counter-clockwise direction at 3600 RPM. The motor drives a pump which supplies 100 percent filtered water at a rate of approximately 12 GPM to one spray arm at a time. The spray arm's operation is alternated by small "pauses" of the motor during the wash cycle.

Draining is accomplished by using a small separate synchronous drain pump mounted to the side of the sump. The drain pump is connected to the main pump by a small rubber hose. The drain check valve is located at the discharge end of the drain pump. The drain hose

is attached by a worm gear clamp to the discharge end of the drain pump. The drain hose must have a loop at a **minimum height of 32 inches** in order to insure proper drainage.

The main pump can easily be removed by disconnecting the upper spray arm supply tube hose, the drain pump connector hose, the wiring harness connectors made at the circulation motor, the water heat thermostat located on the bottom of the pump and rotating the four pump retainers toward the middle of the pump.

900 Watt Heater

Refer to the cycle chart on the reverse side to determine when the heater is on during the wash cycle. The heater cycles ON and OFF for brief periods during the drying cycle.

Voltage checks of the heater should be made in the dry portion of the service test mode.

Standard Dry Air Flow

When the control advances to the "dry" portion of the cycle, a linear actuator retracts a valve, which opens a vent path through the console into the kitchen. The heated, moist air leaving the dishwasher through the console vent causes drier air to be drawn into the unit by way of intake vents located at the bottom of the door. The water on the dishes is evaporated into drier air and the venting process continues. The heating element is turned ON and OFF during the entire drying cycle.

Detergent and Rinse Aid Dispenser

The detergent and rinse aid dispenser is a one piece component consisting of a molded detergent cup and a built-in rinse aid dispenser. The detergent cup has a spring loaded cover and the rinse aid dispenser has a removable cover.

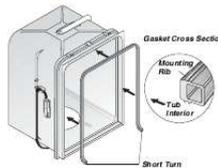
Liquid rinse aid is added to the dispenser up to the fill line indicator. The amount of rinse aid released can be adjusted by turning the arrow indicator from one, being the least amount, to four, being the greatest amount.

To replace dispenser:

- shut off electricity to dishwasher,
- remove outer door panel assembly,
- disconnect wiring to the actuator,
- remove the six screws,
- remove the dispenser,
- replace and reinstall screws,
- rewire actuator.

Tub and Door Seal

The door seal is pressed into the tub channel for an interference fit. Center the gasket (marked on back) at the tub top center and press in place without stretching or bunching. The gasket takes a short turn at the bottom of the tub channel before ending at the channel end wall.



Product Specifications

Electrical

Rating	120 Volts, 60Hz
Separate Circuit	15 amp min. - 20 amp max.
Motor (Amps)	0.6
Heater Wattage	900
Total Amps (load rated)	10.0
Temp Assure	140°F a5°F (60°C a3°C) (with outer door in place)
Temp Boost	145°F a5°F (63°C a3°C)
Heated Wash/Heated Rinse	155°F a5°F (66°C a3°C)
Sanitize	155°F a5°F (66°C a3°C)
Hi-Limit Thermostat	200°F (93°C)

Water Supply

Suggested minimum incoming water temperature	120°F (49°C)
Pressure (PSI) min./max.	20/120
Connection (NPT)	¾"
Consumption (Normal Cycle)	4.9 - 9.7 U.S. gal. 18.5 - 36.7 liters
Water valve flow rate (U.S. GPM)	.83
Water recirculation rate (U.S. GPM)
Water fill time	approx. 12
 87 sec.

Trouble Shooting Tips

WARNING

Personal Injury Hazard

Always disconnect the dishwasher from the electrical power source before adjusting or replacing components.

Symptom	Check the Following	Remedy
Dishwasher will not operate when turned on.	1. Fuse (blown or tripped) 2. 120 VAC supply wiring connection faulty 3. Electronic control board defective 4. Motor (nonoperative) 5. Door switch (open contacts) 6. Door latch (not making contact with door switch) 7. Touch pad (circuit defective) 8. No indicator lamps illuminate when START or HOLD is depressed	1. Replace fuse or reset breaker 2. Repair or replace wire loosens at dishwasher junction box 3. Replace control module 4. Replace motor/pump assembly 5. Replace latch assembly 6. Replace latch assembly 7. Replace console assembly 8. Replace console assembly
Motor hums but will not start or runs.	1. Motor (part bearing) 2. Motor stuck due to prolonged no-load	1. Replace motor assembly 2. Rotate motor impeller
Motor trips out on internal thermal overload protector.	1. Improper voltage 2. Motor winding shorted 3. Glass or foreign items in pump	1. Check voltage 2. Replace motor/pump assembly 3. Clean and clear blockage
Dishwasher runs but will not heat.	1. Heater element (open) 2. Electronic control board defective 3. Wiring or terminal defective 4. Hi-Limit thermostat defective	1. Replace heater element 2. Replace control module 3. Repair or replace 4. Replace thermostat
Detergent cover will not latch or open.	1. Latch mechanism defective 2. Electronic control board defective 3. Wiring or terminal defective 4. Broken spring(s) 5. Defective actuator	1. Replace dispenser 2. Replace control module 3. Repair or replace 4. Replace dispenser assembly 5. Replace dispenser
Dishwasher will not pump out.	1. Drain restriction 2. Electronic control board defective 3. Defective drain pump 4. Blocked impeller 5. Open windings 6. Wiring or terminal defective	1. Clear restriction 2. Replace control module 3. Replace pump 4. Check for blockage, clear 5. Replace pump assembly 6. Repair or replace
Dishwasher will not fill with water.	1. Water supply turned off 2. Defective water inlet fill valve 3. Check ¾" valve screen for obstruction 4. Defective float switch 5. Electronic control board defective 6. Wiring or terminal defective 7. Float stuck in "up" position	1. Turn water supply on 2. Replace water inlet fill valve 3. Disassemble and clean screen 4. Repair or replace 5. Replace control module 6. Repair or replace 7. Clean float
Dishwasher water siphons out.	1. Drain hose (high) loop too low 2. Drain line connected to a floor drain not vented	1. Repair to proper 32-inch minimum height 2. Install air gap at counter top
Detergent left in dispenser.	1. Detergent allowed to stand too long in dispenser 2. Dispenser wet when detergent was added 3. Detergent cover held closed or blocked by large dishes 4. Improper incoming water temperature to properly dissolve detergent 5. Seal "Detergent cover wet not open"	1. Instruct customer/user 2. Instruct customer/user 3. Instruct customer/user on proper loading of dishes 4. Incoming water temperature of 120°F is required to properly dissolve detergent 5. Instruct customer/user on proper detergent use



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Manual abstract:

Trouble Shooting Tips Personal Injury Hazard Always disconnect the dishwasher from the electrical power source before adjusting or replacing components. Symptom Dishwasher will not operate when turned on. Check the Following 1. Fuse (blown or tripped). 2. 120 VAC supply wiring connection faulty. 3. Electronic control board defective. 4. Motor (inoperative).

5. Door switch (open contacts). 6. Door latch not making contact with door switch. 7.

Touch pad circuit defective. 8. No indicator lamps illuminate when START or OPTIONS are pressed. Remedy 1. Replace fuse or reset breaker.

2. Repair or replace wire fasteners at dishwasher junction box. 3. Replace control module. 4. Replace motor/impeller assembly. 5. Replace latch assembly. 6. Replace latch assembly.

7. Replace console assembly. 8. Replace console assembly. Detergent and Rinse Aid Dispenser The detergent and rinse aid dispenser is a one piece component consisting of a molded detergent cup and a built-in rinse aid dispenser. To replace dispenser: shut off electricity to dishwasher, remove outer door panel assembly, disconnect wiring to the actuator, remove the six screws, remove the dispenser, replace and reinstall screws, rewire actuator. . . . The detergent cup has a spring loaded cover and the rinse aid dispenser has a removable cover. Liquid rinse aid is added to the dispenser up to the fill line indicator. The amount of rinse aid released can be adjusted by turning the arrow indicator from one, being the least amount, to four, being the greatest amount. Motor hums but will not start or run.

1. Motor (bad bearings). 2. Motor stuck due to prolonged non-use. 1.

Replace motor assembly. 2. Rotate motor impeller. Motor trips out on internal thermal overload protector. 1.

Improper voltage. 2. Motor windings shorted. 3. Glass or foreign items in pump. 1. Check voltage. 2. Replace motor/impeller assembly. 3.

Clean and clear blockage. Dishwasher runs but will not heat. 1. 2. 3. 4. Heater element (open). Electronic control board defective. Wiring or terminal defective. Hi-Limit thermostat defective.

1. 2. 3. 4. Replace heater element.

Replace control module. Repair or replace. Replace thermostat. Tub and Door Seal The door seal is pressed into the tub channel for an interference fit. @@@@1.

2. 3. 4. 5. Latch mechanism defective. Electronic control board defective. Wiring or terminal defective. Broken spring(s). Defective actuator. 1.

2. 3. 4. 5. Replace dispenser. Replace control module. Repair or replace. Replace dispenser. @@@@Rotation is in the counterclockwise direction at 3600 RPM. @@@@@@@2.

3. 4. 5. 6. Drain restricted.

Electronic control board defective. Defective drain pump. Blocked impeller. Open windings. Wiring or terminal defective.

1. 2. 3. 4. 5. 6. Clear restrictions. Replace control module. Replace pump. Check for blockage, clear.

Replace pump assembly. Repair or replace. Tub Interior 1. Water supply turned off. 2. Defective water inlet fill valve. 3. Check fill valve screen for obstructions. 4. Defective float switch.

5. Electronic control board defective. 6. Wiring or terminal defective. 7.

Float stuck in "UP" position. 1. Turn water supply on. 2. Replace water inlet fill valve.

3. Disassemble and clean screen. 4. 5. 6. 7. Repair or replace. Replace control module. Repair or replace. @@@@Product Specifications hose.

@@The drain hose Rating

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..... 120 Volts, 60Hz Separate Circuit..15 amp min.- 20 amp max. Motor (Amps) .

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.. @@@@900 Total Amps (load rated)

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.. @@@@ (60°C±3°C) [with outer door in place] cycle. The heater cycles ON and OFF for brief TempBoost ..

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. @@@@Heated Wash/Heated Rinse Sanitize

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.... @@@@200°F (93°C) Dishwasher water siphons out.

1. Drain hose (high) loop too low. 2. Drain line connected to a floor drain not vented. Short Turn 1. Repair to proper 32-inch minimum height. 2. @@@@120°F (49°C) Pressure (PSI) min./max. .

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... 20/120 Connection (NPT) ..

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..... 3/8" Consumption (Normal Cycle)

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. 4.9 - 9.7 U.S. gal., 18.5 - 36.7 liters Water valve flow rate (U.S. GPM)

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. .83 Water recirculation rate (U.S. GPM)

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approx. 12 Water fill time

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..... 87 sec. 1.

Detergent allowed to stand too long in dispenser. 2. Dispenser wet when detergent was added. 3. Detergent cover held closed or blocked by large dishes. 4. Improper incoming water temperature to properly dissolve detergent. 5. See "Detergent cover will not open." 1.

Instruct customer/user. 2. Instruct customer/user. 3. Instruct customer/user on proper loading of dishes. 4. Incoming water temperature of 120°F is required to properly dissolve dishwashing detergents. 020905 Color Code To start Operation Close and latch door. Press START/CANCEL pad. Close and latch door.

Press DELAY START pad to select desired delay time. Press desired cycle and/or option pad. The indicator lights will change. Press START/CANCEL within 15 seconds to begin cycle. Press START/CANCEL. Dishwasher will drain for 90 seconds, then shut off. To delay start To select a new cycle or option To cancel cycle WARNING Disconnect electrical power at the fuse box or circuit breaker box before servicing under this product. Electrical power may be present on some parts under this product, even if not in use. Failure to follow this warning could result in serious injury or death. Display Codes (LED)

WASHING ----- Wash portion of cycle.

SANITIZED ----- The SANITIZED criteria has been met. Indicator light will switch off when door is opened. DRYING ----- Drying portion of cycle. CLEAN ----- Shows completion of cycle. Indicator light will switch off when door is opened.

OPTION LED's Flashing ñ All LED's flashing indicates power failure has occurred. Press START/CANCEL pad and reselect desired options and cycle. STATUS LED's Flashing -- The STATUS LED's that are lit when the door is opened will flash. Close door. SERVICE DATA SHEET P/N: 154595301 BK.

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.... Black BU.

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..Blue PK...

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Pink R....

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.Red R-BK....

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.....Red/Black R-Y...

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..Red/Yellow VIO...

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.....Violet W...

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...White Wiring Diagram ELECTRONIC CONTROL BOARD P3-10 P3-2 Water/Service Test P3-9 P3-5 P3-4 P3-1 P3-3 P3-6 This information is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. @@@@.



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