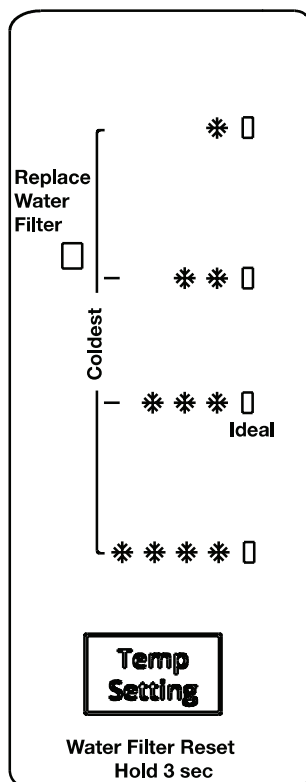


For Service Technician Use Only

CUDA 17 D lite & Non Disp

Water Filter Reset & Showroom Mode



Showroom Mode Use Case	System Feedback
To enter showroom mode 1. Within 2 minutes after power-up, toggle (TEMP SETTING) button till <MAX> is on. 2. Hold DOOR SWITCH to simulate door close. 3. Press and hold (TEMP SETTING) for 3 seconds.	The system enters into Showroom mode. UI performs "showroom mode": <ul style="list-style-type: none"> All four LEDs turns on one by one from top to bottom and then bottom to top and keep cycling. (Cycling rate: 1 cycle per second)
Press (TEMP SETTING) button in showroom mode.	LEDs stop cycling. The recommended temperature setting (i.e. <colder>) is on. Then UI behaves (fake) as normal mode if user presses (TEMP SETTING) button again, except that cooling stays off in the showroom mode and no temperature setting is saved.
User inactivity for 3 seconds	UI returns to "showroom animation".
To exit showroom mode 1. Toggle (TEMP SETTING) button will <MAX> is on. 2. Hold DOOR SWITCH to simulate door close. 3. Press and hold (TEMP SETTING) for 3 seconds.	UI exits showroom mode and returns to normal mode with the default setting.
Power interval during showroom mode.	UI returns to Normal mode after a power reset or power failure.

For Service Technician Use Only
Notes

For Service Technician Use Only

Notes

Section 3: Component Testing


This section provides the wiring diagram and component location for the “Whirlpool®, Maytag®, Amana®, and IKEA® Refrigerators.”

- Safety
- Wiring Diagram
- Component Location

For Service Technician Use Only


Safety

⚠ DANGER



Electrical Shock Hazard
Only authorized technicians should perform diagnostic voltage measurements.
After performing voltage measurements, disconnect power before servicing.
Failure to follow these instructions can result in death or electrical shock.

⚠ WARNING



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.

Voltage Measurement Safety Information

When performing live voltage measurements, you must do the following:

- Verify the controls are in the off position so that the appliance does not start when energized.
- Allow enough space to perform the voltage measurements without obstructions.
- Keep other people a safe distance away from the appliance to prevent potential injury.
- Always use the proper testing equipment.
- After voltage measurements, always disconnect power before servicing.

IMPORTANT: Electrostatic Discharge (ESD) Sensitive Electronics

ESD problems are present everywhere. ESD may damage or weaken the electronic control assembly. The new control assembly may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

- Use an antistatic wrist strap. Connect wrist strap to green ground connection point or unpainted metal in the appliance

-OR-

Touch your finger repeatedly to a green ground connection point or unpainted metal in the appliance.

- Before removing the part from its package, touch the antistatic bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic control assembly by edges only.
- When repackaging failed electronic control assembly in antistatic bag, observe above instructions.

For Service Technician Use Only

Wiring Diagram

Wiring diagram A for models:

WRS321SDHB, WRS321SDHB01, WRS321SDHB02, WRS321SDHV, WRS321SDHV01, WRS321SDHV02, WRS321SDHW, WRS321SDHW01, WRS321SDHW02, WRS321SDHZ, WRS321SDHZ01, WRS321SDHZ02, WRS325SDHB, WRS325SDHB01, WRS325SDHB02, WRS325SDHV, WRS325SDHV01, WRS325SDHV02, WRS325SDHW, WRS325SDHW01, WRS325SDHW02, WRS325SDHZ, WRS325SDHZ01, WRS321SDHB, WRS321SDHB00, WRS321SDHV, WRS321SDHV00, WRS321SDHW, WRS321SDHW00, WRS321SDHZ, WRS321SDHZ00, WRS325SDHB, WRS325SDHB00, WRS325SDHV, WRS325SDHV00, WRS325SDHW, WRS325SDHW00, WRS325SDHZ, WRS325SDHZ00.

VOLTAGE TEST POINTS THESEUS							
MAIN CONTROL (ACU)	CONNECTOR	FROM	COLOR	TO	COLOR	SPECIFICATIONS	
	P1	P1-1	BK	P1-2	WH	120 VAC Input constant from Power Cord	
		P1-2	WH	P1-4	RD	120 VAC Output to Compressor/Condenser Fan when cooling	
	P2	P2-1	YL/RD	P1-1	BK	120 VAC Input FC Light switch feedback	
		P2-4	YL	P1-1	BK	120 VAC Input FC Light switch feedback	
		P2-6	RD/WH	P1-2	WH	120 VAC Output to Evaporator Fan when cooling	
	P3	P2-7	BR	P1-2	WH	120 VAC Output Defrost Heater when defrosting	
		P3-4	V	P1-2	WH	120 VAC Output to Water Valve when water dispensing	
		P3-5	LB	P1-1	BK	120 VAC Input FC Door switch	
		P3-6	GY/OR	P1-2	WH	120 VAC Output to Cube Solenoid when dispensing cube	
	P4	P3-8	BU	P1-2	WH	120 VAC Output to Auger Motor when dispensing ice	
		P4-1	OR	P4-4	LB	12.7 VDC Output to User Interface	
	P4-3 GY				DATA COMMUNICATION		
	P5	P5-1	GY	P5-2	GY	5 VDC Input RC Thermistor	
		P5-3	TN	P5-4	TN	5 VDC Input FC Thermistor	
	P8	P8-1	PK	P8-2	PK	5 VDC Input Defrost Thermistor	
		P8-7	V	P8-8	RD	12.7 VDC Output to Dispenser LED	
	P70	P70-7 BU			12 VDC Pulse Damper Stepper Motor coil A +		
		P70-8 BH			12 VDC Pulse Damper Stepper Motor coil A -		
	P11	P11-1 YL			12 VDC Pulse Damper Stepper Motor coil B +		
P11-2 RD			12 VDC Pulse Damper Stepper Motor coil B -				
P11-3		BR	P11-4	BR	12 VDC Output to damper Heater		
VOLTAGE TEST POINTS MINOTAUR							
HMI	J1	J1-1	LB	J1-4	OR	12.7 VDC Output to User Interface	
		J1-2 GY			DATA COMMUNICATION		

For Service Technician Use Only

Wiring diagram B for models:

ASI2575GRB, ASI2575GRB01, ASI2575GRS, ASI2575GRS01, ASI2575GRW, ASI2575GRW01, WRS315SDHB, WRS315SDHB01, WRS315SDHM, WRS315SDHM01, WRS315SDHT, WRS315SDHT01, WRS315SDHW, WRS315SDHW01, WRS311SDHB, WRS311SDHB00, WRS311SDHB01, WRS311SDHM, WRS311SDHM00, WRS311SDHM01, WRS311SDHM02, WRS311SDHT, WRS311SDHT00, WRS311SDHT01, WRS311SDHW, WRS311SDHW00, WRS311SDHW01, WRS311SDHZ, WRS311SDHZ00, WRS311SDHZ01, WRS315SDHB, WRS315SDHB00, WRS315SDHM, WRS315SDHM00, WRS315SDHM02, WRS315SDHT, WRS315SDHT00, WRS315SDHW, WRS315SDHW00, WRS315SDHZ, WRS315SDHZ00, WRS315SDHZ01.

VOLTAGE TEST POINTS ATHENA						
	CONNECTOR	FROM	COLOR	TO	COLOR	SPECIFICATIONS
MAIN CONTROL (ACU)	J2	J2-1	PK	J2-2	PK	5 VDC Input Evaporator Thermistor
		J2-3	GY	J2-4	GY	5 VDC Input Refrigerator Thermistor
	JP1	JP1-1	YL	JP1-3	BK	120 VAC input FC Light switch feedback when the door is open
		JP1-2	BR	JP1-6	WH	120 VAC Output Defrost Heater when defrosting
		JP1-3	BK	JP1-6	WH	120 VAC Input Constant from Power Cord
		JP1-4	RD	JP1-6	WH	120 VAC Output to Compressor and Fans when cooling

For Service Technician Use Only

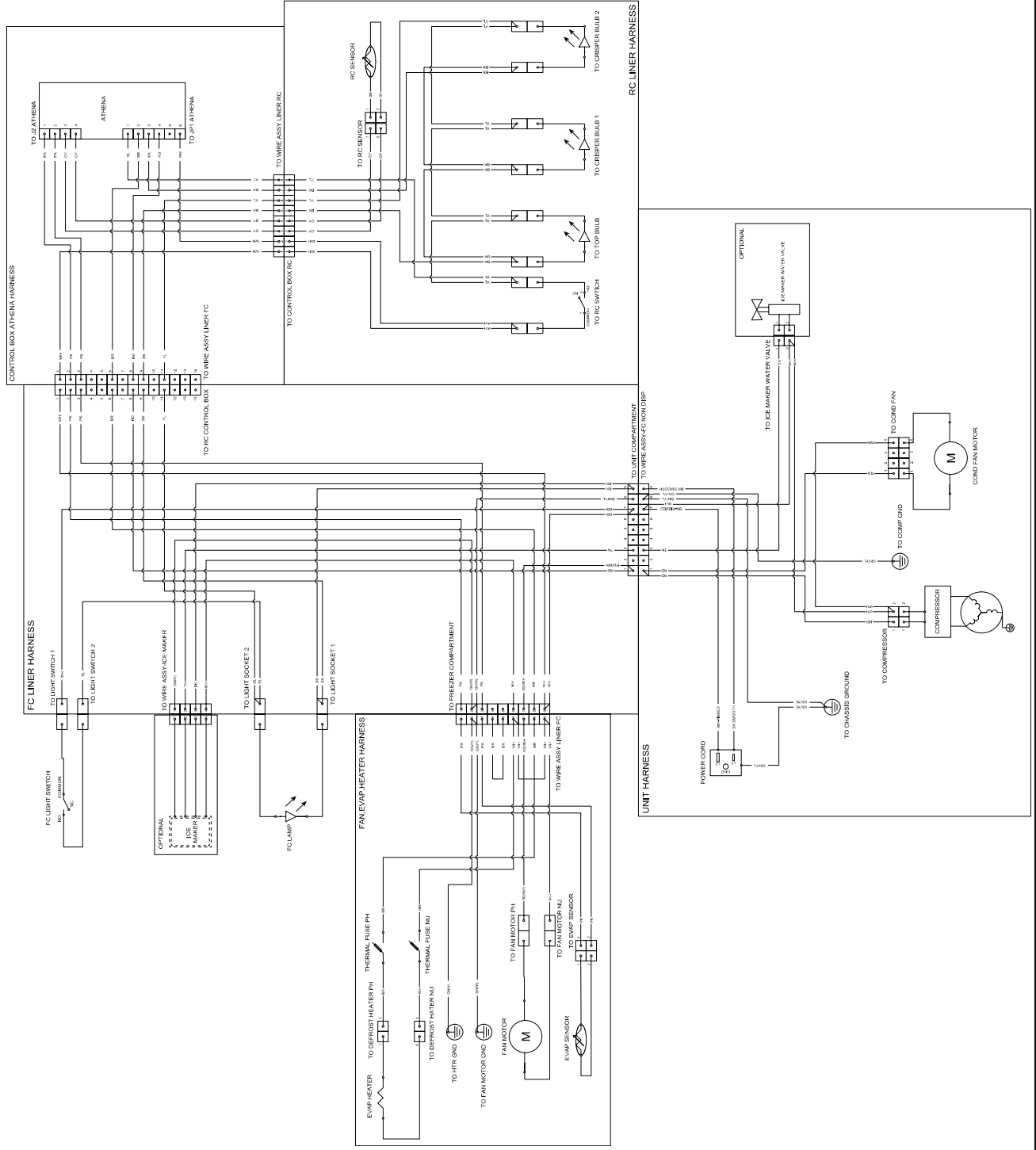
Wiring diagram C for models:

WRS312SNHB01, WRS312SNHW01, WRS315SNHB, WRS315SNHB01, WRS315SNHM, WRS315SNHM01, WRS315SNHW, WRS315SNHW01, WRSA15SNHN, WRSA15SNHN01, WRSA15SNHZ, WRSA15SNHZ01, WRS312SNHB, WRS312SNHB00, WRS312SNHM, WRS312SNHM00, WRS312SNHM01, WRS312SNHW, WRS312SNHW00, WRS315SNHB, WRS315SNHB00, WRS315SNHM, WRS315SNHM00, WRS315SNHW, WRS315SNHW00, WRSA15SNHN, WRSA15SNHN00, WRSA15SNHZ, WRSA15SNHZ00.

VOLTAGE TEST POINTS ATHENA						
MAIN CONTROL (ACU)	CONNECTOR	FROM	COLOR	TO	COLOR	SPECIFICATIONS
	J2	J2-1	PK	J2-2	PK	5 VDC Input Evaporator Thermistor
		J2-3	GY	J2-4	GY	5 VDC Input Refrigerator Thermistor
	JP1	JP1-1	YL	JP1-3	BK	120 VAC Input FC Light switch feedback when the door is open
		JP1-2	BR	JP1-6	WH	120 VAC Output Defrost Heater when defrosting
		JP1-3	BK	JP1-6	WH	120 VAC Input constant from Power Cord
		JP1-4	RD	JP1-6	WH	120 VAC Output to Compressor and Fans when cooling

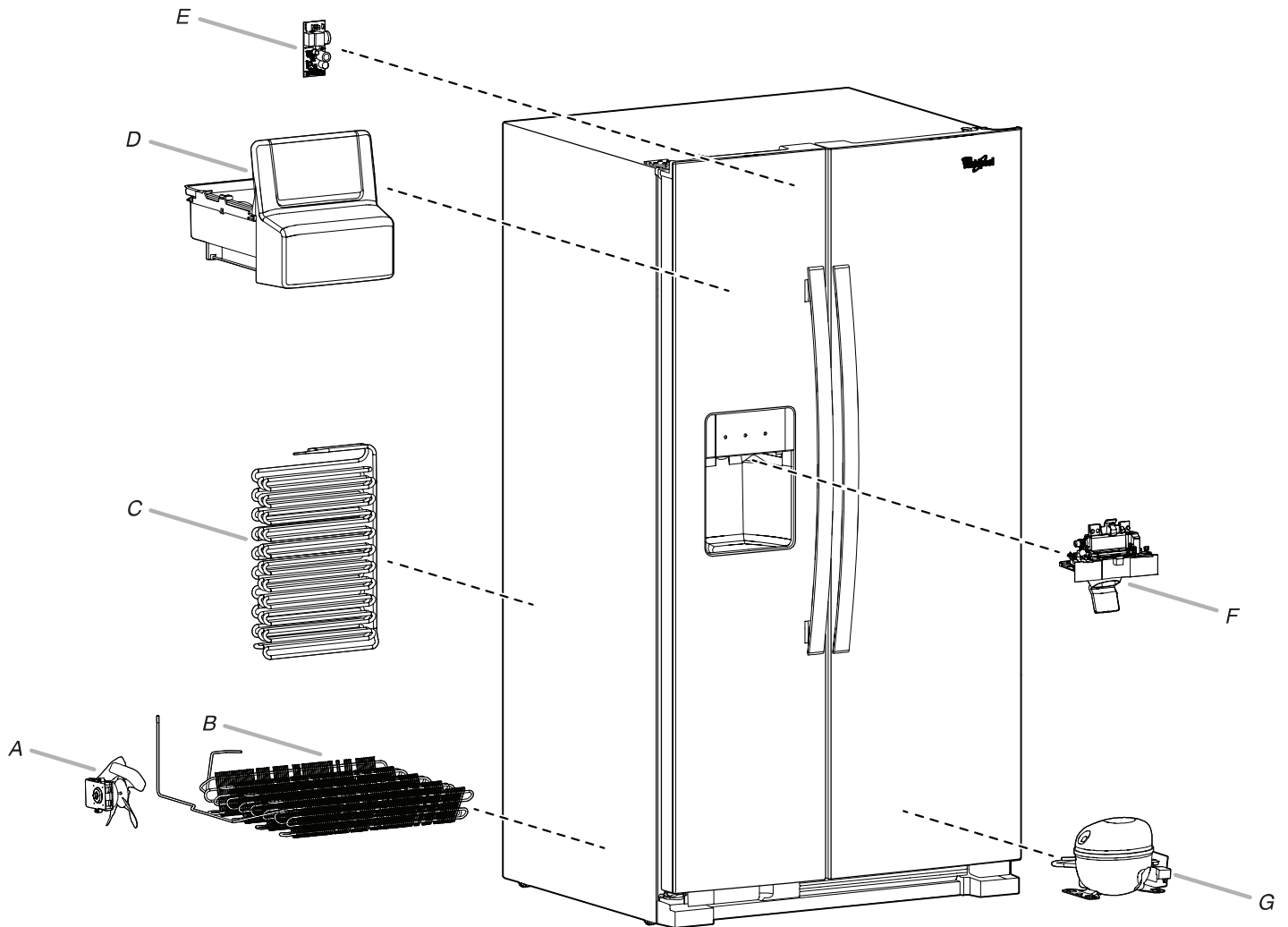
For Service Technician Use Only

Wiring diagram C



For Service Technician Use Only

Component Location



- A. Condenser Fan
- B. Condenser
- C. Freezer Evaporator
- D. Auger Ice Dispenser

- E. Athena Control Board
- F. Front Door Dispenser Unit
- G. Compressor

For Service Technician Use Only
Notes

Section 4: Component Access

This section provides service parts access, removal, and replacement instructions for the “Whirlpool®, Maytag®, Amana®, and IKEA® Refrigerators.”

- Removing the front wheel
- Accessing the interior of the unit
- Removing the damper
- Removing the freezer shelf
- Removing the dispenser
- Accessing the freezer evaporator and components
- Accessing the dispenser area (removing UI)
- Accessing the machine compartment

Removing the Front Wheel

⚠ WARNING

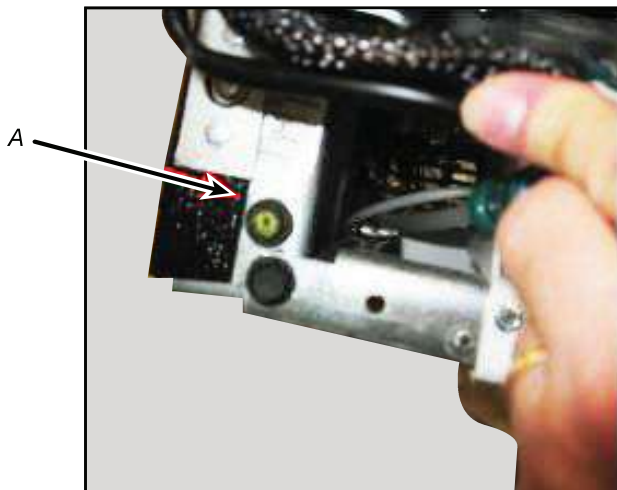


Electrical Shock Hazard
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

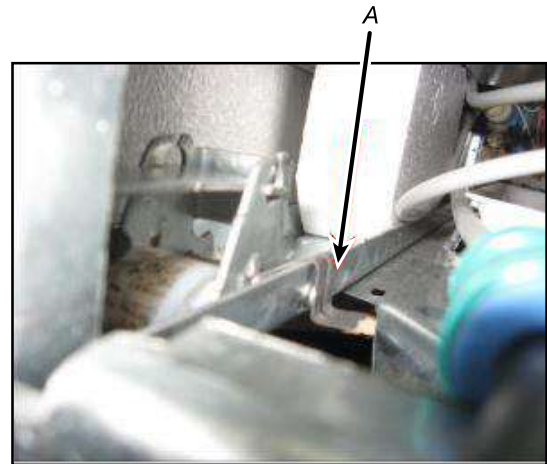
1. Below picture shows level screw location.



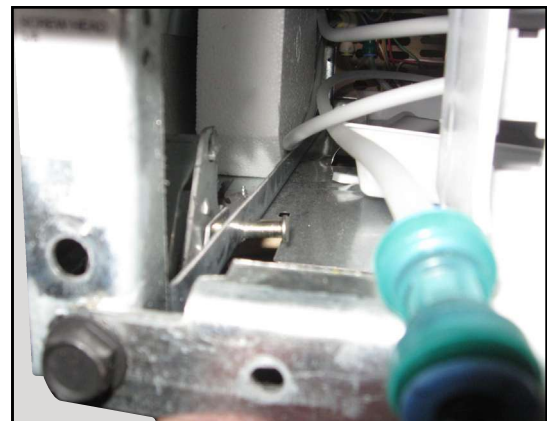
2. Below picture shows level screw.
A. Level screw



3. Below picture shows the clip and pin.
A. Clip and pin



4. Remove the leveling screw and pry up the clip and remove. Then remove the pin at this point you can remove the wheel assembly.



5. Below picture shows the wheel out of the unit.



Accessing Interior of Unit

Removing the Damper

⚠ WARNING



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.

⚠ WARNING



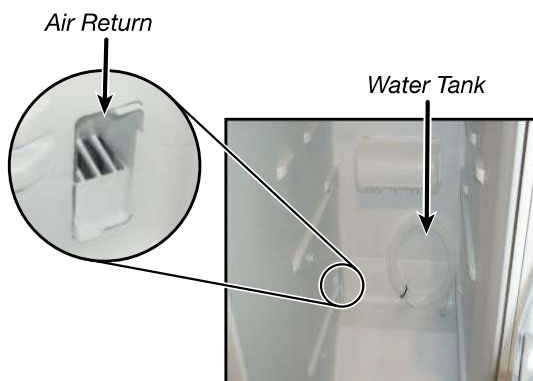
Electrical Shock Hazard

Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

1. Below picture shows the interior of the unit.



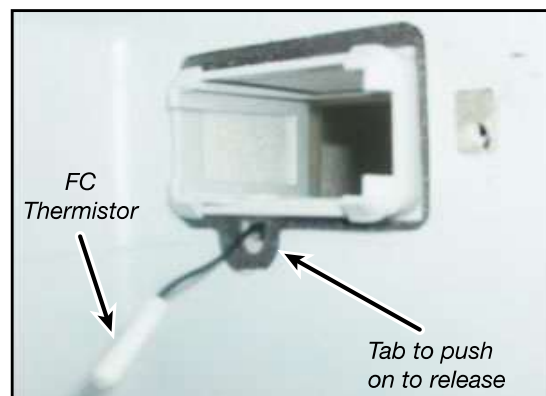
2. There are some changes to the Cuda 17 compared to older Standard side by side refrigerator.
 - The return air was moved from the center of fresh food to lower left corner and it goes straight through.
 - The controls are all on the dispenser.



1. To remove damper completely first remove upper air duct in Freezer. You will have to remove IM and bin. Then remove the screw at the top of the air duct and it will come off.

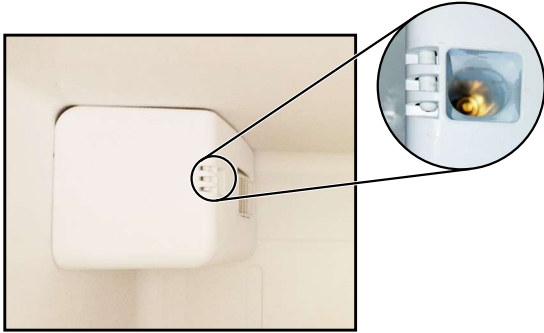


2. Once freezer cover gets off then push on the tabs in the air supply area and this will push the damper out.

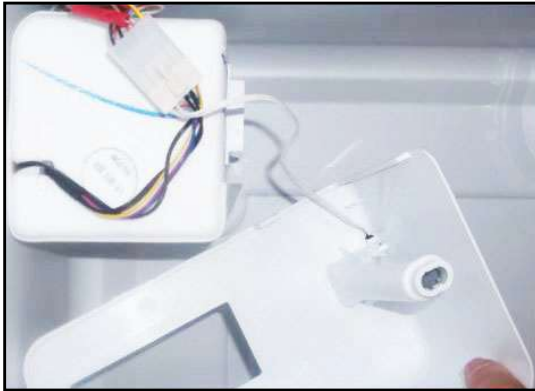


COMPONENT ACCESS

3. Air damper is motor driven. To get to the damper first remove the screw in housing.



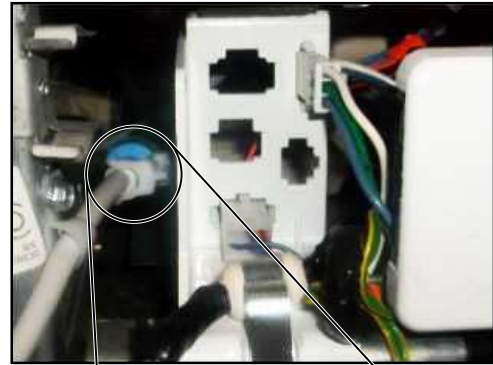
4. The cover will come off and then you can access the wiring harness.



5. The damper will come out. The damper has both RC and FC thermistor on the harness.



6. Below picture shows connections for fresh food door.



Removing the Freezer Shelf

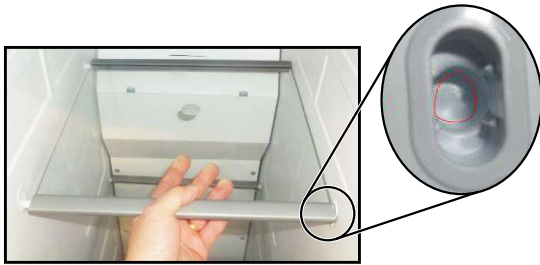
⚠ WARNING



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.

1. Pick up the right side of the shelf and slide to the right as you would normally do. The bar will go into the deep pocket of the shelf holder.



2. Now, take a needle nose pliers or you can try your fingers and grab the bar on the LEFT and push the bar over to the right until the end is exposed. Do this for both front and back.

Note: At this point, the shelf can be dropped down and removed. To put the shelf back in just reverse the process.



Accessing the Freezer Evaporator and Components

⚠ WARNING



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.

1. After removing the shelves, remove the six 1/4" (6.4 mm) hex head screws, lift up on the panel and pull forward to remove.

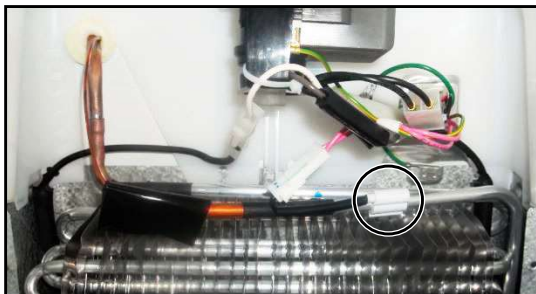


COMPONENT ACCESS

2. You will now have access to the Evaporator, Defrost heater, Defrost thermistor, Defrost drain pan, and Evaporator fan assembly.

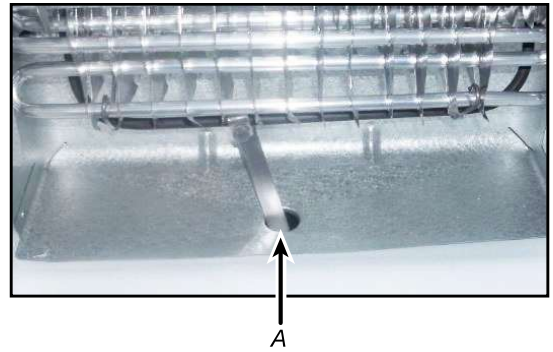


3. Below picture shows freezer components. Defrost thermistor goes on the cap tube side.



4. The unit does have heat probe in defrost drain. This transfers the heat from the defrost heater to the drain to prevent ice build up and causing drain restrictions.

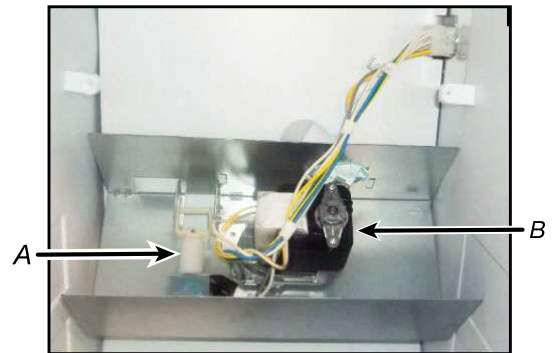
A. Heat Probe



5. Below picture shows auger motor and cube/crushed coil.


A. Auger Solenoid

B. Auger Drive Motor



Accessing the Dispenser Area (Removing UI)

⚠ WARNING



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.

- 2. Once sides are removed then use a screwdriver to push on all three tabs that are behind the UI to release it.

- 1. Below picture shows the dispenser area.



COMPONENT ACCESS

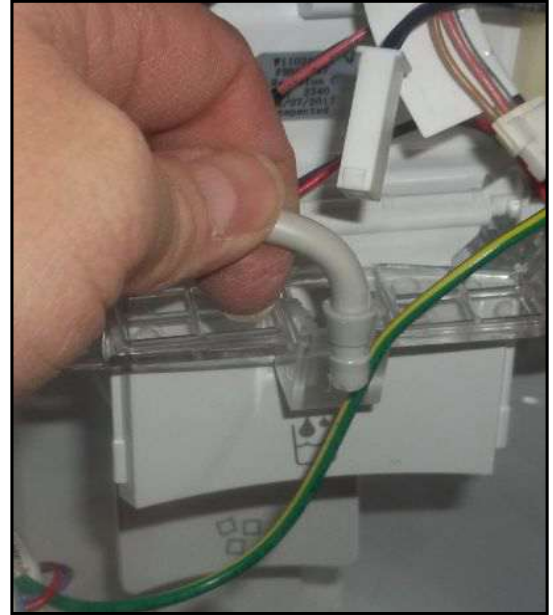
3. Remove the left side covers by removing screws to access the dispenser.



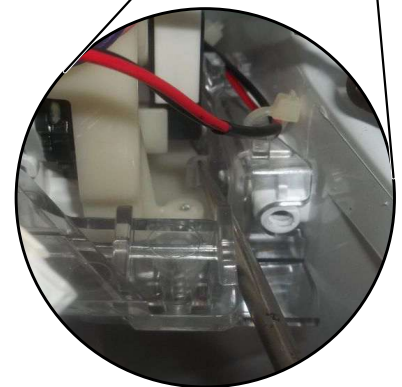
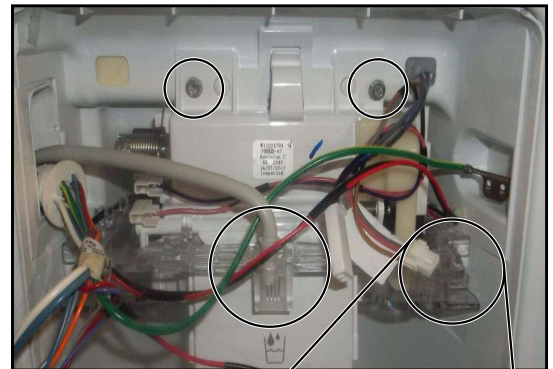
4. You now have access to the wiring for UI.



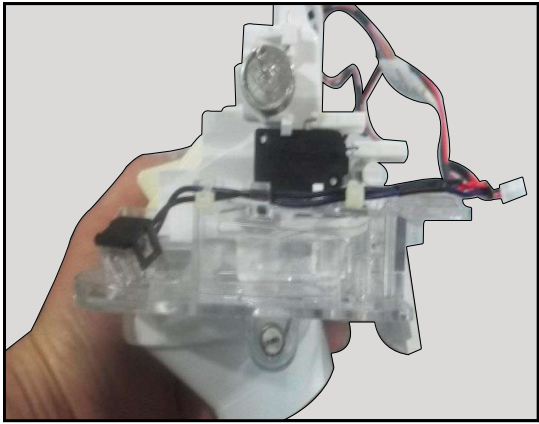
5. To remove the water line push the locking tab out. Do this from the bottom.



6. To remove ice door, remove water line for the holder. Remove the upper screws then pry tabs.



7. Below pictures show the ice chute assembly.



Accessing the Machine Compartment

⚠ WARNING



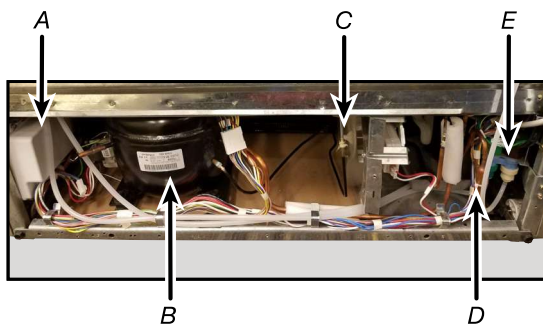
Electrical Shock Hazard

**Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.**

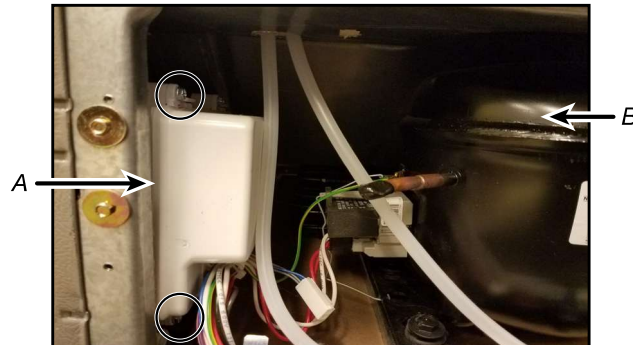
1. Below picture shows the machine compartment. Remove screws from the back panel.



2. You now have access to the following components:
 - A. Compressor inverter
 - B. Compressor
 - C. Condenser Fan Motor
 - D. Filter Dryer
 - E. Dual water valve



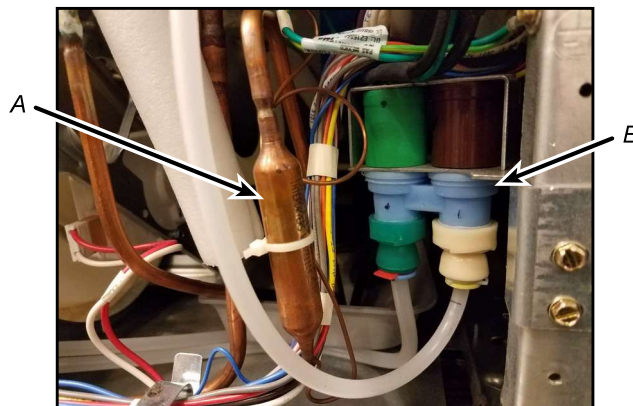
3. To remove the compressor inverter, remove the two 1/4" (6.4 mm) hex head screws. Disconnect the wiring then pull the inverter out.
 - A. Compressor inverter
 - B. Compressor



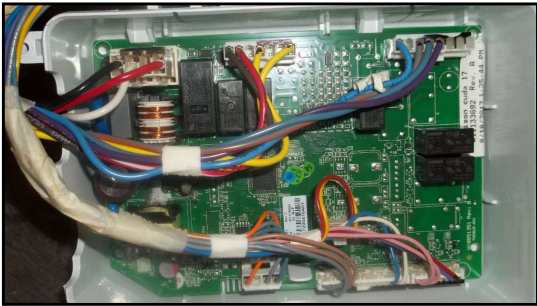
4. To remove the condenser fan, remove the two 1/4" (6.4 mm) hex head screws, disconnect the wiring and lift out.



5. To remove the Dual Water Valve, remove the two 1/4" (6.4 mm) hex head screws, disconnect the wiring and water lines then lift out.
 - A. Filter Dryer
 - B. Dual water valve



6. Below picture shows high voltage board.



PRODUCT SPECIFICATIONS & WARRANTY INFORMATION SOURCES

IN THE UNITED STATES:

FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL:

FOR WHIRLPOOL PRODUCTS: 1-800-253-1301

FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL:

THE TECHNICAL ASSISTANCE LINE: 1-800-832-7174

**HAVE YOUR STORE NUMBER READY TO IDENTIFY YOU AS AN
AUTHORIZED IN-HOME SERVICE PROFESSIONAL**

FOR LITERATURE ORDERS (CUSTOMER EXPERIENCE CENTER):

PHONE: 1-800-851-4605

FOR TECHNICAL INFORMATION AND SERVICE POINTERS:

www.servicematters.com

IN CANADA:

FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL

1-800-461-5681

FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL:

THE TECHNICAL ASSISTANCE LINE: 1-800-488-4791

**HAVE YOUR STORE NUMBER READY TO IDENTIFY YOU AS AN
AUTHORIZED IN-HOME SERVICE PROFESSIONAL**

