DOMETIC CCF-T FORD EXPEDITION 2022 INSTALLATION MANUAL

Equipment Included:	1 Refrigerator Unit, 1 Rubber Mat, 1 Top Closeout Tray, 1 Front-Fan with Housing, 1 Front Fan Template, 1 Right & 1 Left Foam Console Wall Spacer	**Recommended Tools:**	Drill with 3.5 inch Hole saw bit, Screwdriver, Multimeter, Pen, Car vacuum, Removable tape
Time required	35 min	**Instructions valid for SKUs:**	
Recommended number of people:	2		

Product suitable for: «Comma separated list of product names»

RELATED DOCUMENTS

You find this service manual in more languages online at https://documents.dometic.com/search/?query=CCF-T.

EXPLANATION OF SYMBOLS

DANGER!
Safety instruction: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING!
Safety instruction: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION!
Safety instruction: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE!
Indicates a situation that, if not avoided, can result in property damage.

NOTE!
Supplementary information for operating the product.

INTENDED USE

The center console refrigerator (or "refrigerator") provides vehicle passengers with easy access to refrigerated items from within the comfort of the vehicle cabin. The refrigerator is designed to fit within the existing console footprint and to provide an automatically controlled cooling environment for packaged items. This refrigerator is only suitable for the intended purpose and application in accordance with these instructions.

This manual provides information that is necessary for proper installation and/or operation of the refrigerator. Poor installation and/or improper operating or maintenance will result in unsatisfactory performance and a possible failure. The manufacturer accepts no liability for any injury or damage to the product resulting from:

- Incorrect assembly or connection, including excess voltage
- Incorrect maintenance or use of spare parts other than original spare parts provided by the manufacturer
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in this manual

Dometic reserves the right to change product appearance and product specifications.

GENERAL SAFETY MESSAGES

WARNING! Electrical shock and/or fire hazard . Failure to obey the following warnings could result in death or serious injury.

- Use only Dometic replacement parts and components that are specifically approved for use with the appliance.
- Avoid improper installation, adjustment, alterations, service, or maintenance of the unit. Service and maintenance must be performed by a qualified service person only.
- Do not modify this product in any way. Modification can be extremely hazardous.
- Do not immerse this product in water.
- Do not use this product for any purpose other than as a mobile cooling device.
- Use care when diagnosing and/or adjusting components on a powered unit.

WARNING! Avoid touching the compressor or front fan blades during installation. Failure to obey this caution could result in minor or moderate injury.

- Park the vehicle in a well-ventilated area during the installation process. Ensure the vehicle is in Park with the emergency brake engaged at all times during the installation process.
- Follow all vehicle manufacturer safety procedures.

NOTICE! Failure to obey the following notices could result in property damage.

NOTICE Failure to obey the following notices could result in property damage:

- Do not use a power strip or two-way splitter.
- Do not use power cord adapters other than those provided by the manufacturer

GENERAL INFORMATION

This section provides information on the included parts, installation tools and materials, component locations, and the refrigerator.

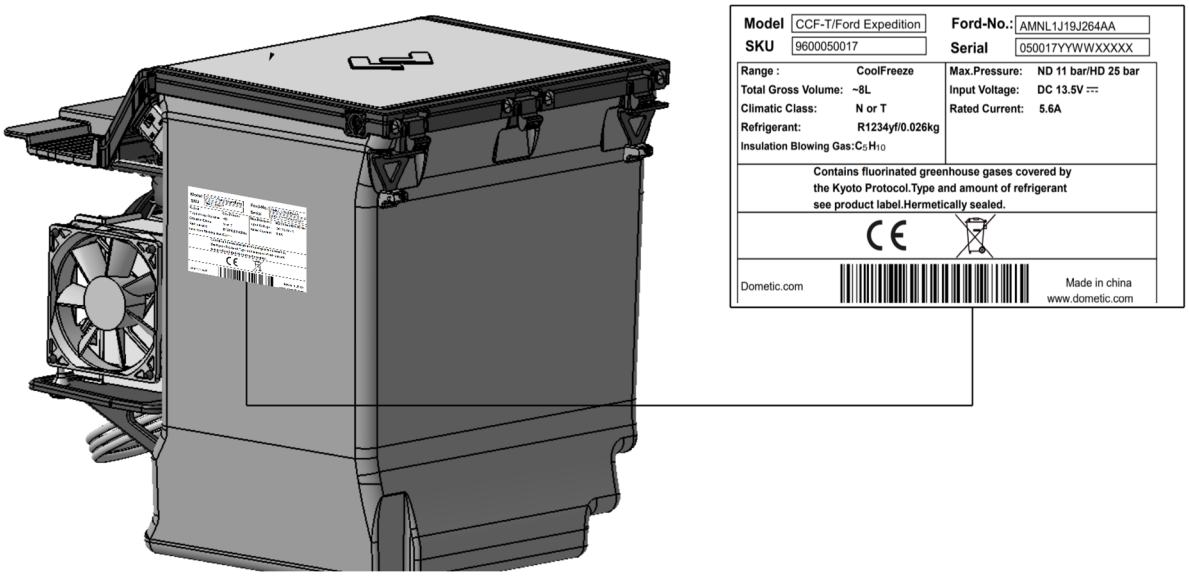
The images used in this document are for reference purposes only. Components and component locations may vary according to specific product models. Measurements may vary ±0.38 in. (10 mm).

TOOLS REQUIRED FOR WIRING ROUTING

1	Screwdriver	
2	Wire Cutter	
3	Plier	
4	Heat Gun	
5	Utility Knife	
6	Crimping Tool	

MODEL IDENTIFICATION

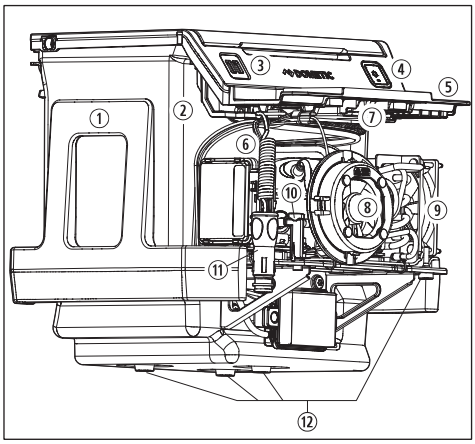
This section provides the location of the refrigerator model identification label.



Have this information readily available if you have to call the Dometic Customer Support Center.

COMPONENT LOCATIONS

This section identifies the refrigerator's main components.

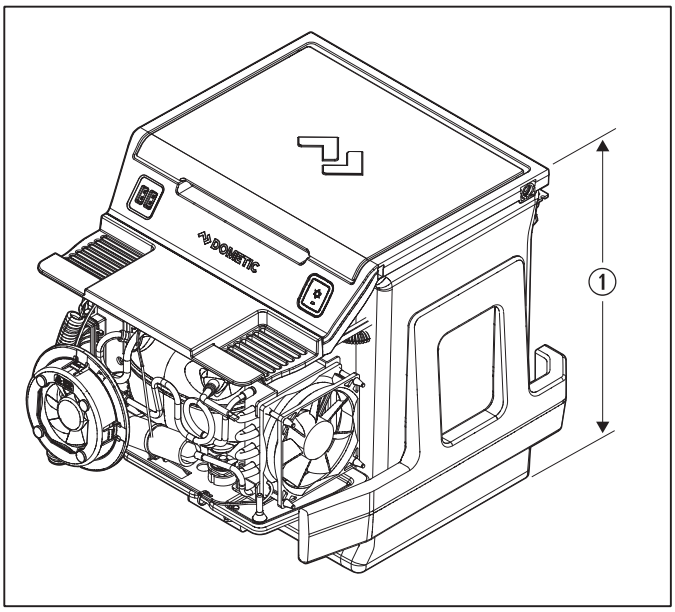


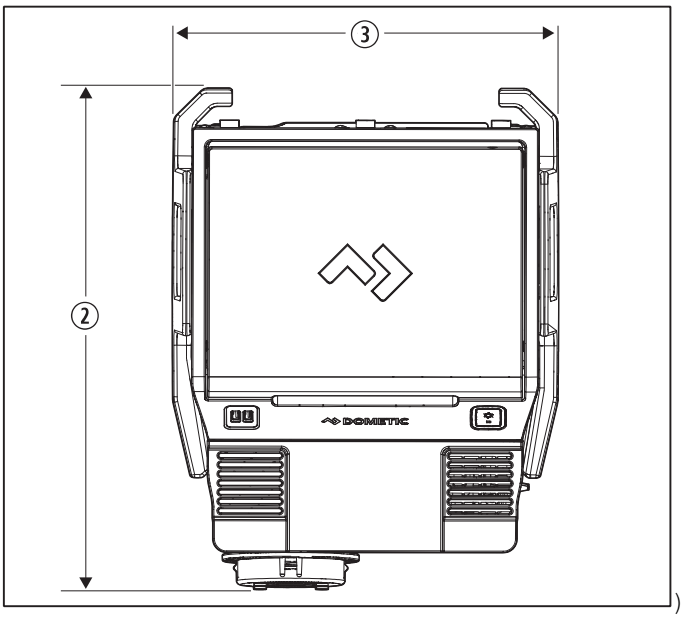
① EPP Foam Wall Spacers
② Refrigerator Unit
③ USB Port(s)
④ ON/OFF Button with LED
⑤ Closeout Tray
⑥ 12 VDC Power Cord
⑦ Twist Lock
⑧ Front Fan
⑨ Condenser Fan
⑩ Power Retaining Latch
⑪ 12 VDC Power Plug
⑫ Rubber Feet

USB ports will vary by vehicle trim package.

EXTERNAL DIMENSIONS

This section identifies the refrigerator's external dimensions.





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This section identifies the refrigerator's external dimensions.

① Height: 13 in (320 mm)

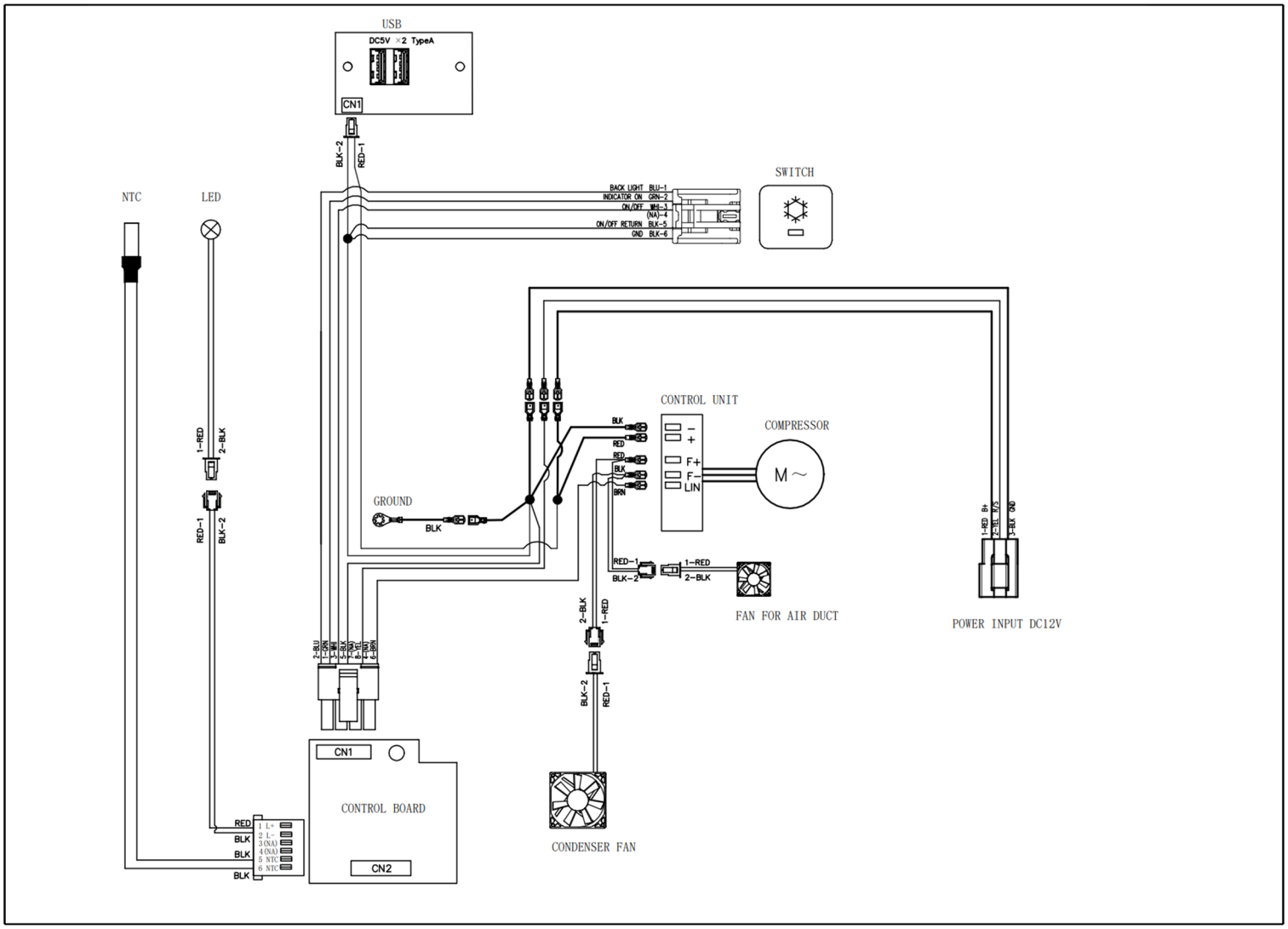
② Depth: 16 in (404 mm)

③ Width: 12 in (310 mm)

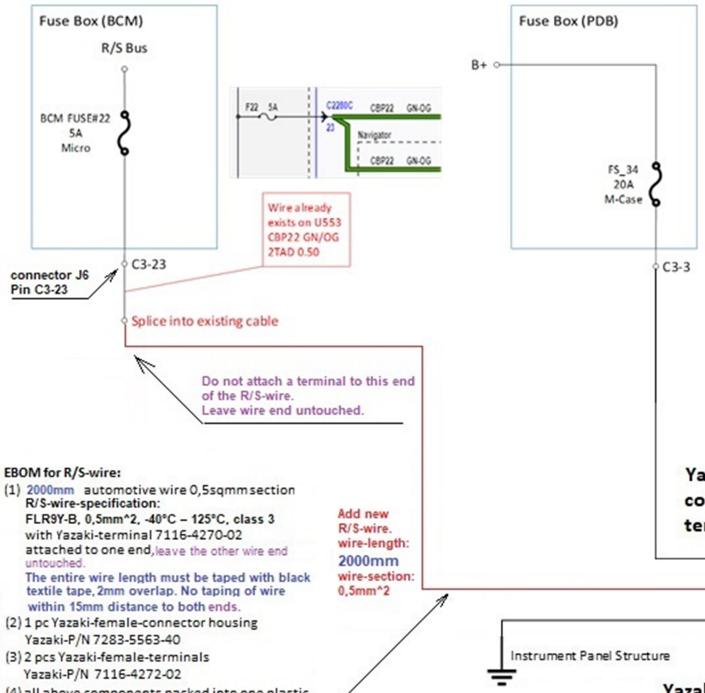
SPECIFICATIONS

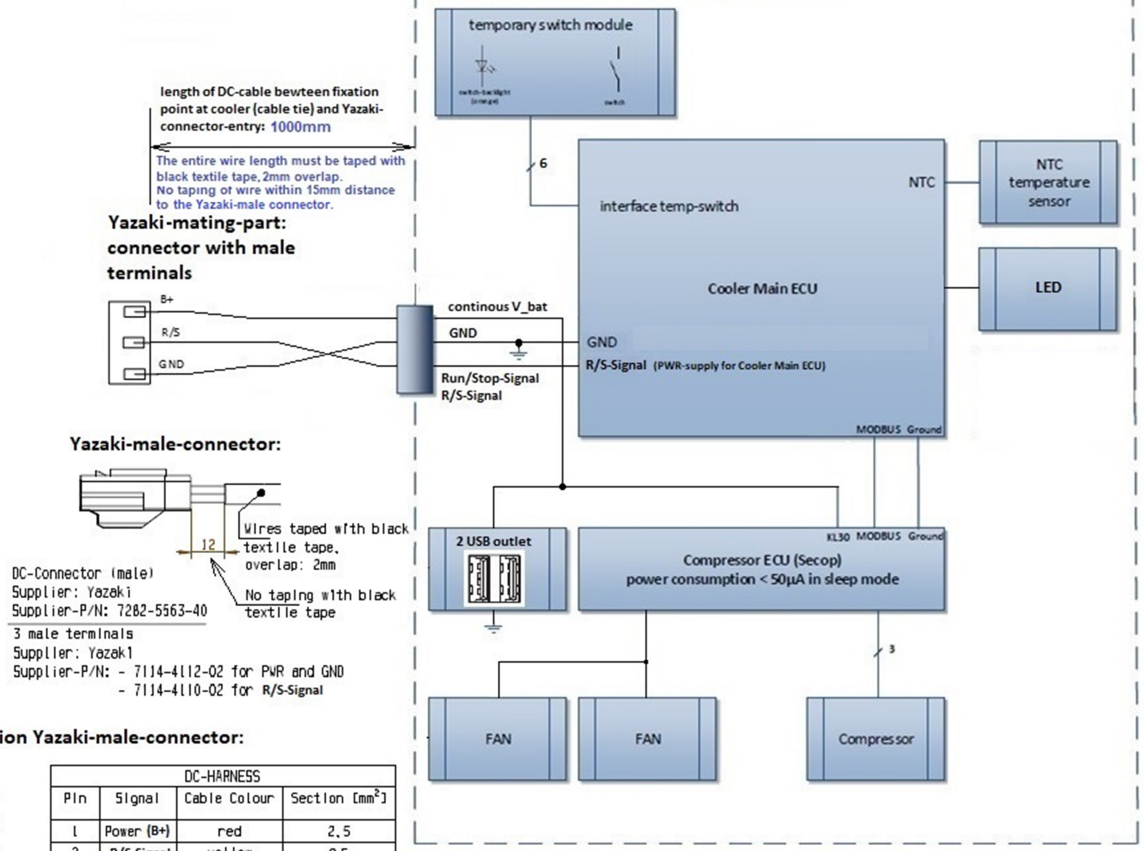
Weight	14.3 lbs (6.5 kg)	**Storage/Internal Volume**	8 L
Voltage Input	12.3 –16.0 VDC	**Beverage Storage**	6 - 20 oz (0.6 L) bottles 12 - 12 oz (0.4 L) cans
Low Voltage Protection	12.3 VDC	**Refrigerant**	R1234yf 1 oz (26 g)
Energy Consumption at Startup	5.6 A	**Internal Operating Temperature Range (Auto-Controlled)**	32 – 41°F (0 – 5 °C)
Energy Consumption during Operation at 90 °F Ambient and 23 °F Internal Temperatures	4.5 A	**Vehicle Models**	Ford Expedition (2022)

WIRING DIAGRAM

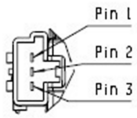


Ford Expedition Vehicle / electrical distribution / wire harness:





Pin Configuration Yazaki-male-connector:



DC-HARNESS			
Pin	Signal	Cable Colour	Section [mm²]
1	Power (B+)	red	2.5
2	R/S-Signal	yellow	0,5
3	Ground	black	2.5

PRE-INSTALLATION

WARNING! Carbon monoxide and/or vehicle safety . Failure to obey the following warnings could result in death or serious injury:

- Park the vehicle in a well-ventilated area during the installation process.
- Ensure the vehicle is in Park with the emergency brake engaged at all times during the installation process.
- Remove ignition key from the ignition key cylinder.
- Remove negative terminal from the battery.

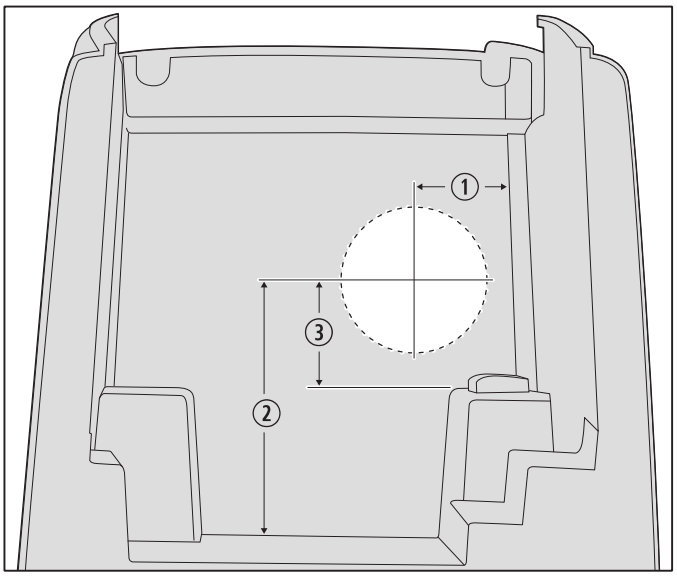
This section describes the assessment and location preparations to install the refrigerator.

ASSESSING THE INSTALLATION LOCATION

1. Confirm your vehicle is the correct model, model year, and trim level to accept the refrigerator. See “Specifications” for more information. Only trim packages with an integrated center floor console are eligible
2. Verify you have the correct parts and tools to perform the refrigerator installation. See “Tools and Materials” for more information.

PREPARING THE FRONT FAN LOCATION

3. Tape the front fan template to the inside, front wall of the console bin.
4. Using a pen, trace the center point opening from the template onto the console bin wall.

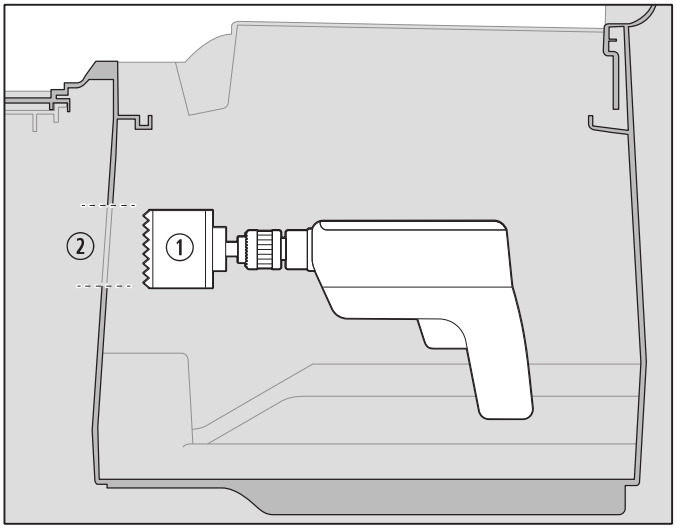


① 2.4 in (60 mm)

② 6.2 in (158 mm)

③ 2.6 n (67 mm)

5. Use the 3.5 in. (89 mm) hole saw drill bit to drill an opening for the front fan.
6. Remove the template and any debris from the console and console bin area.



① 3.5 in (89 mm) Hole Saw Drill Bit

② 3.5 in (89 mm) Hole

INSTALLATION

NOTICE!

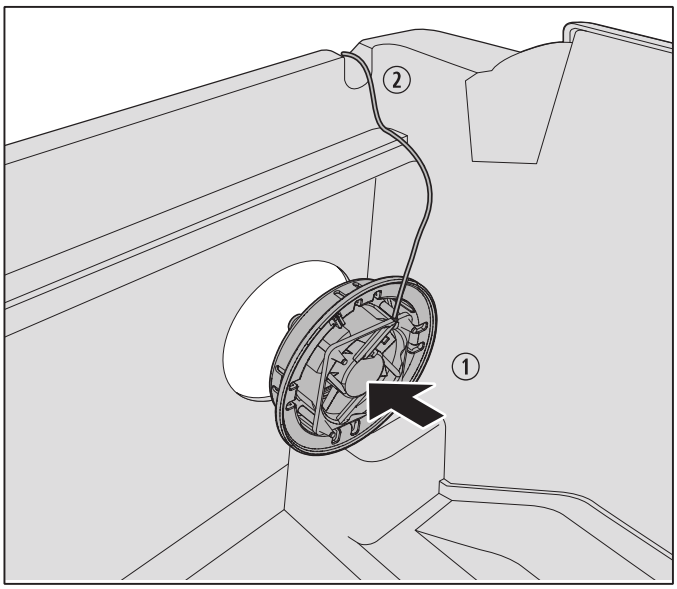
- Avoid lifting the weight of the refrigerator unit by the plastic edges. Otherwise damage to the edges could occur.
- Do **not** leave the refrigerator unit in an inverted position or run the compressor soon after having the refrigerator in an inverted position. Otherwise damage to the compressor could occur.
- Avoid pinching, crushing, or breaking the wires or power cord. Otherwise damage to the refrigerator unit could occur.

This section describes how to install and wire the fan and the refrigerator unit, and how to install the foam protection material.

INSTALLING THE FRONT FAN

Hold the front fan vertically by the housing.

1. Insert the front fan into the new 3.5 in. (89 mm) opening inside the console bin until it snaps into place.
2. Tape the black fan wire to the top right lip of the console bin to hold it in place and to protect it from damage.

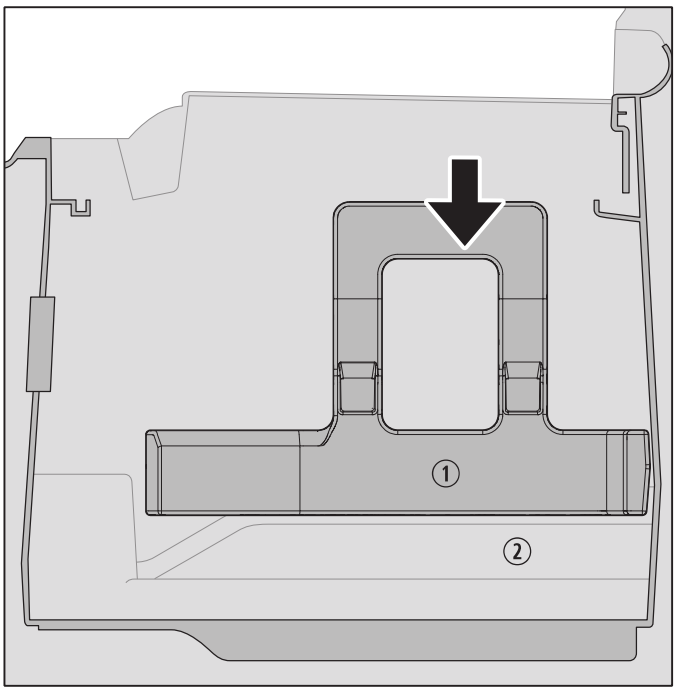


① Front Fan

② Black Fan Wire

INSTALLING THE FOAM SPACERS

1. Peel off the tape covering from the right-hand foam spacer.
2. Affix the right-hand foam spacer to the inside of the right-hand console bin wall:
   a. Hold the foam spacer inside the console bin with the 45 degree angled corner to the rear of the console bin.
   b. Rest the foam spacer on the console bin ledge.
   c. Press the 45° angled corner of the foam spacer into the rear corner.
   d. Press the entire foam spacer into place.
3. Repeat steps 1 and 2 to apply the left-hand foam spacer to the left-hand console bin wall.



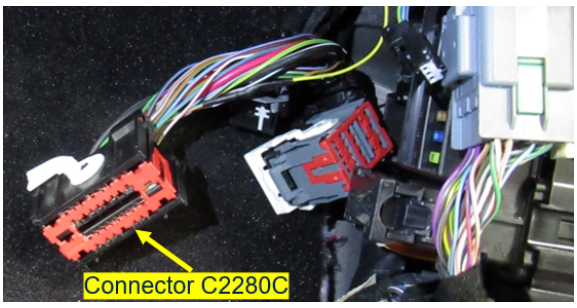
① Foam Spacer

② Console Bin Ledge

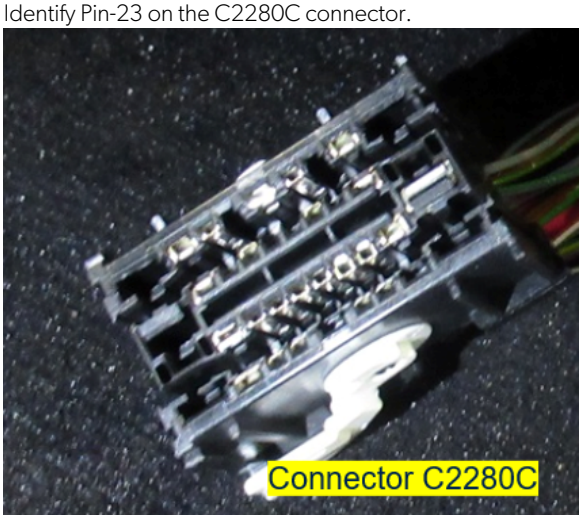
INSTALLING THE REFRIGERATOR UNIT

INSTALLING THE R/S WIRE SET

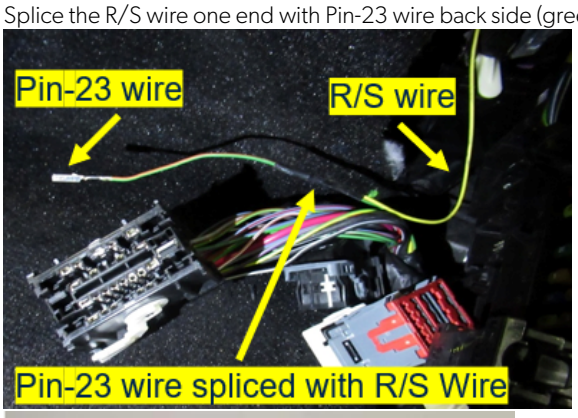
1. Remove the connector C2280C from the BCM which is located behind the Glove box.



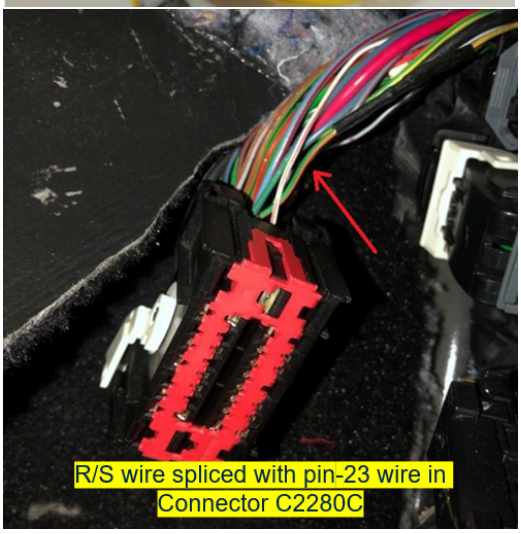
2. Identify Pin-23 on the C2280C connector.



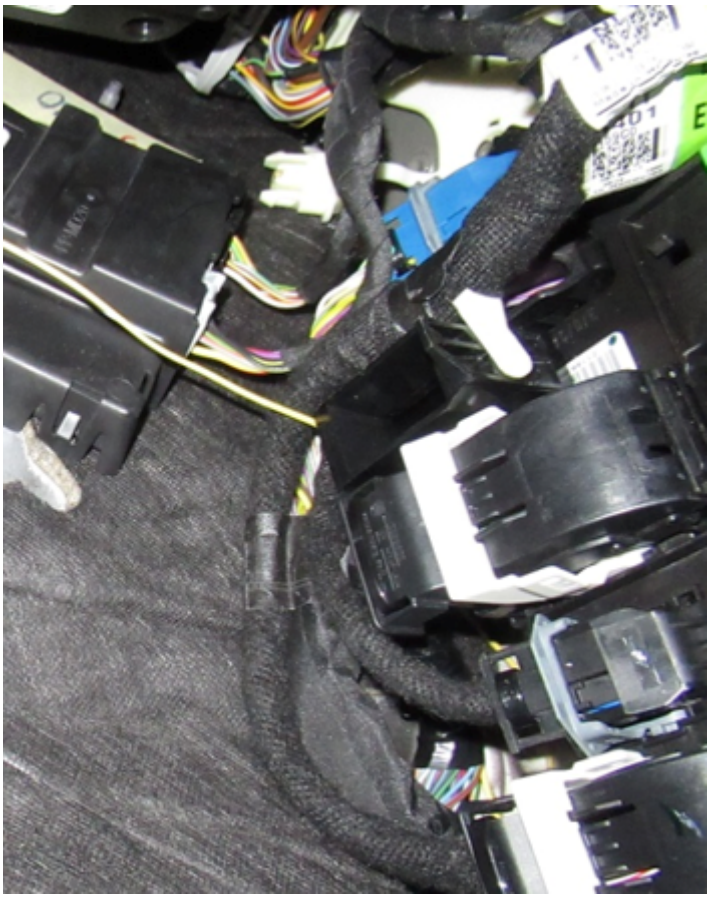
3. Splice the R/S wire one end with Pin-23 wire back side (green with orange trace wire).







4. Reconnect the C2280C connector on the BCM.



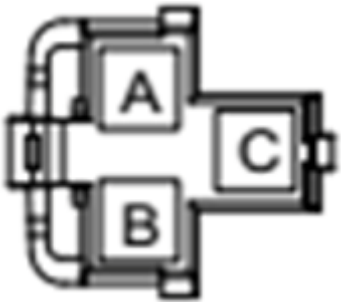
5. Route the R/S wire under the carpet.





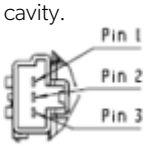


6. Remove the C3786 connector from the 12V socket.

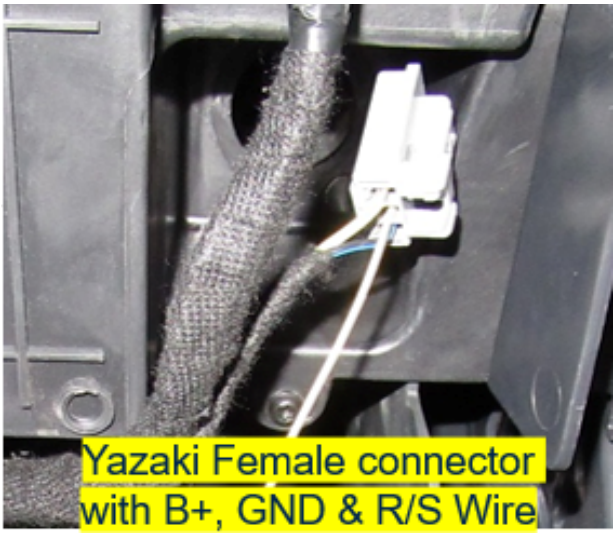


DC Harness			
Pin	Signal	Cable Color	Section
A	Power B+	Red	2.5
B			
C	GND	Black	2.5

7. Cut-off the B+(Red) and GND(Black) terminal from the C3786 connector.
8. Insert the Yazaki female terminals P/N 7116-4272-02 on the B+ Red wire and fix the terminal into Yazaki female connector housing Pin 1 cavity.
9. Insert the Yazaki female terminals P/N 7116-4272-02 on the GND Black wire and fix the terminal into Yazaki female connector housing Pin 3 cavity.
10. Insert the Yazaki female terminals P/N 7116-4272-02 on the R/S Yellow wire other end and fix the terminal into Yazaki female connector housing Pin 2 cavity.



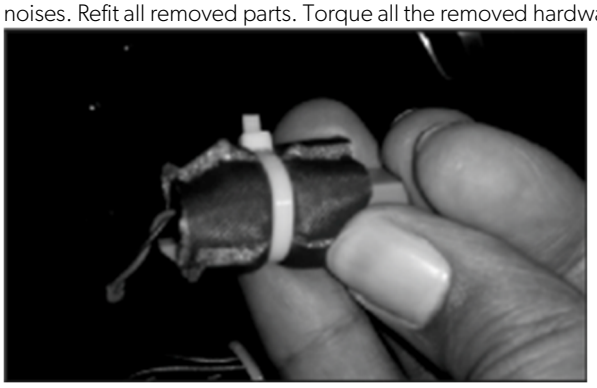
DC Harness			
Pin	Signal	Cable Colour	Section(mm2)
1	Power B+	Red	2.5
2	R/S signal	Yellow	0.5
3	GND	Black	2.5



11. Connect the Yazaki female connector with the Yazaki male connector which is coming from the CCF.



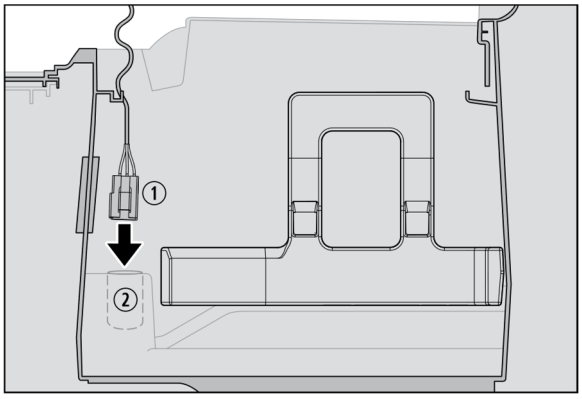
12. After mating the male and female connector apply the foam tape over the connector and tie the foam tape with the help of cable tie to avoid the rattling noises. Refit all removed parts. Torque all the removed hardware as per the workshop manual.



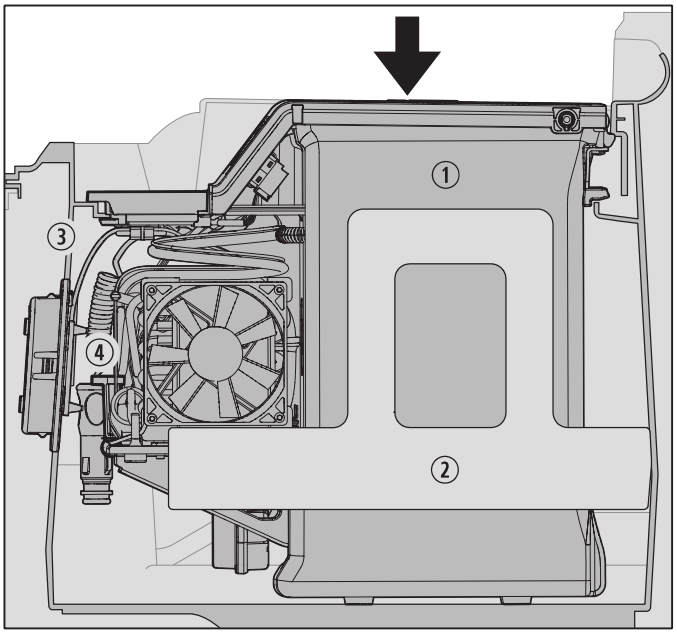
NOTE!

During removal and re- fix, the parts into the vehicle, extra care should be taken to avoid damage and scratches on the vehicle parts. All the fasteners should be fixed firmly to avoid squeak and rattle issues.

MECHANICAL INSTALLATION OF THE REFRIGERATOR



1. Set the refrigerator unit upright near the console bin and insert the refrigerator unit's vehicle harness connector (Yazaki male connector) into the harness connector vehicle side (Yazaki female connector).
2. Note the power retaining latch located at the bottom- left corner of the refrigerator unit.
3. Gently rock the refrigerator unit from left to right while lowering the refrigerator unit into the console bin.



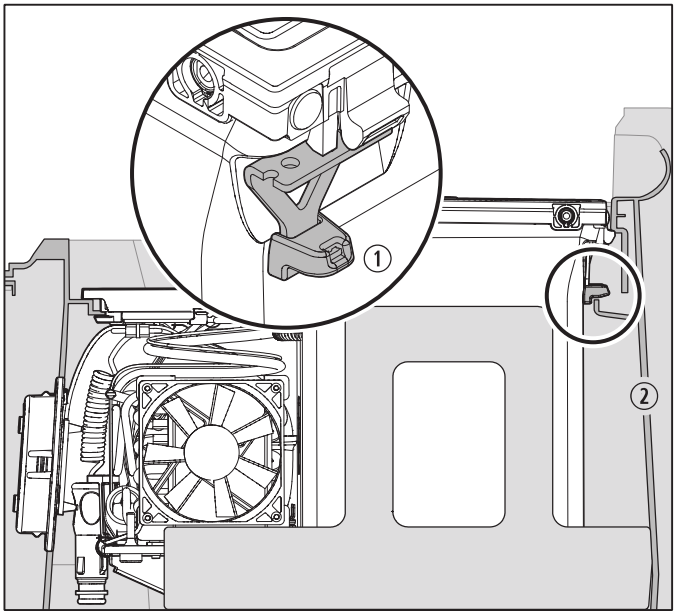
① Refrigerator Unit

② Lef Foam Spacer

③ Console Bin Frame Lip

④ Power Retaining Latch

4. Use a screwdriver to rotate the power retaining latch 180 degrees from the refrigerator unit. The top lip of the latch will secure the harness connector.
5. Continue to lower the refrigerator unit until it is fully seated with the receptacle locks engaged. The top edges of both the refrigerator unit and the console bin should be level.

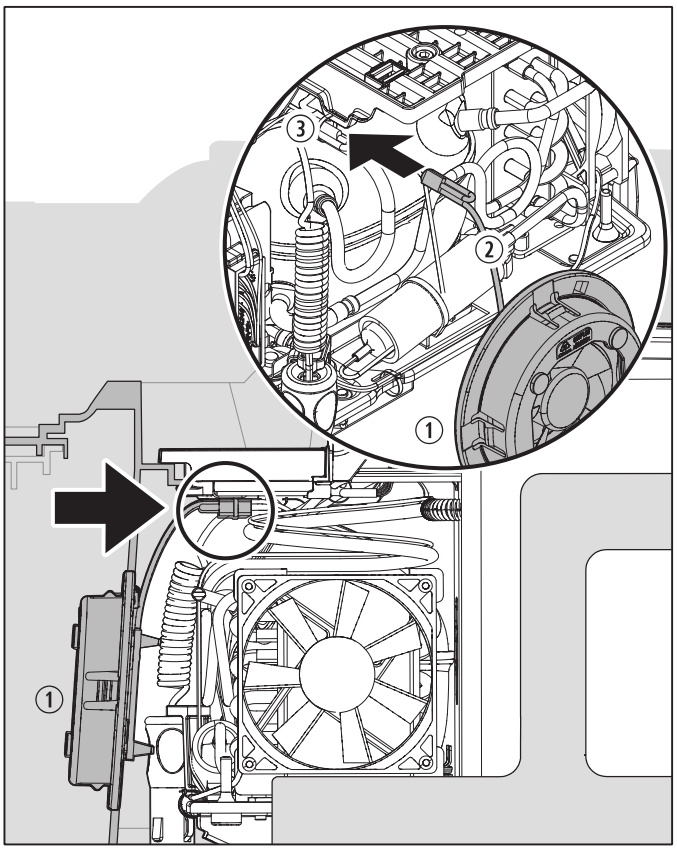


① Receptacle Locks (2)

② Console Bin

CONNECTING POWER TO THE FAN

1. Remove the temporary tape holding the black fan wire in place.
2. Locate the fan power plug below the USB port.
3. Routing the black fan wire away from the fan blades, connect it to the fan power plug.
4. Gently push the connected fan wires back into the opening, protecting the wires from the fan blades.
5. Start the vehicle engine.
6. Press and hold the ON/OFF button for one second to turn the refrigerator unit on and to listen for the condenser fan to start. See "Troubleshooting" if the condenser fan does not start.
7. Press and hold the ON/OFF button for one second to turn the refrigerator unit OFF.
8. Turn the vehicle engine OFF.

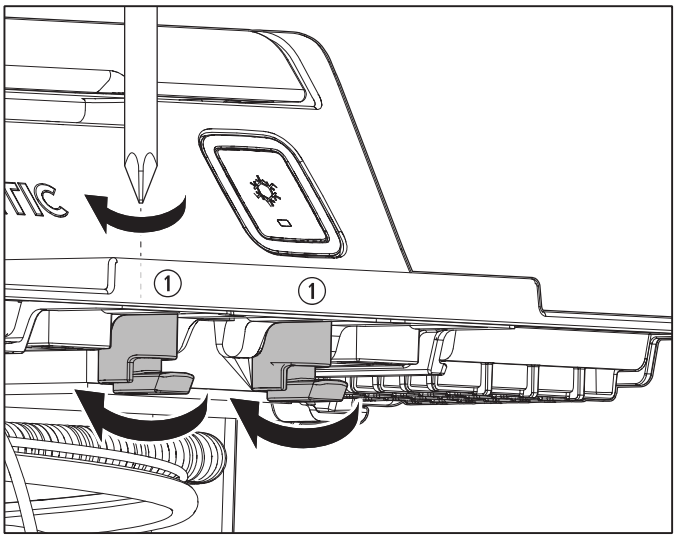


① Front Fan

② Fan Power Plug

③ Black Fan Wire

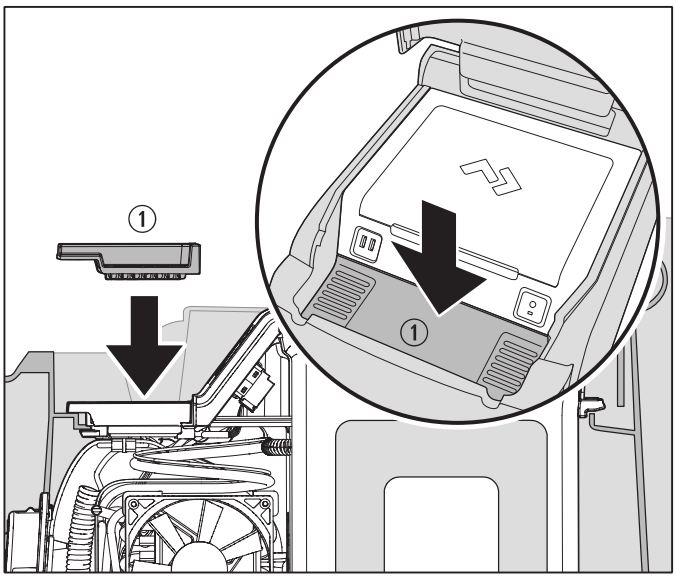
9. At the front edge of the refrigerator unit, ensure the twist lock horizontal tabs fit underneath the front lip of the console bin.
10. Using a Phillips screwdriver, turn each twist lock clockwise until the horizontal tabs are snug against the console bin.



① Twist Locks (2)

COMPLETING THE INSTALLATION

Align the vented closeout tray over the fan housing and snap it into place.



① Closeout Tray

MAINTENANCE

WARNING! ELECTRICAL SHOCK, FIRE, AND/OR EXPLOSION HAZARD
Always turn the refrigerator OFF before cleaning and/or servicing. Maintenance must be done by a qualified service person only. Failure to obey this warning could result in death or serious injury

The maintenance and cleaning instructions provided in this section should be performed at the intervals indicated, or as needed depending on the frequency of use. Failure to properly maintain the appliance may void the warranty and could result in unsafe operation. Preventive maintenance is not covered under the warranty.

CLEANING THE REFRIGERATOR

NOTICE!
Do not use abrasive cleaning materials or harsh chemicals, or damage to the refrigerator could occur. If the refrigerator becomes dirty, wipe clean with a damp, soft sponge or microfiber cloth. If condensation or liquid accumulates in the interior, remove it with a soft sponge or microfiber cloth.

TROUBLESHOOTING

Problem	Possible Cause	Recommended Solution
The refrigerated goods are not cold.	The refrigerator is not turned ON.	Confirm the refrigerator is ON.
	The refrigerator is not receiving power.	Remove the closeout tray and confirm the power cord and fan wires are not damaged. Use a multimeter to test for power.
	The fan is not operating.	
There is condensation around the refrigerator unit lid.	The refrigerator lid is not closing properly.	Remove any obstructions from around the refrigerator lid and console lid to allow both lids to close completely.
	The lid gasket is damaged.	Inspect and replace the lid if the gasket is damaged.
	There is an electronic control unit (ECU) malfunction.	Contact a qualified service technician.
The USB port does not work.	The refrigerator is not receiving power.	Confirm the refrigerator is OFF. Remove the closeout tray and confirm the power cord and fan wires are not damaged. Use a multimeter to test for power.
The fan is noisy.	There is an obstruction.	Confirm the refrigerator is OFF. Remove the closeout tray and remove any obstruction from the fan or the fan blades. If Contact a qualified service technician.
There is an odor coming from the refrigerator interior.	Residue has built up inside the refrigerator.	Clean the interior of the refrigerator. See “Cleaning the refrigerator”.

For more detailed instructions, please see the operating manual.