

2016 Samsung Refrigeration Update SAMSUNG



Project: RF9500K

Models: RF22K9581 RF28K9580



- *The Kitchen is the central living and entertaining room in the home*
- *It is where we meet, talk, and share what's most important throughout the day*



- *Remember when your Fridge was covered with Magnets, Pictures, Notes, Reminders, Grocery Lists, Kid's Artwork?*
- *With the increased popularity of Stainless Steel in kitchens, the front of the Refrigerator is no longer the place to hold magnets, display art work, and communicate with your family.*
- *The traditional family "bulletin board" moved somewhere else-another room or on your phone, tablet or computer or went away entirely.*
- *What was once there for all to see and share, now resided privately on multiple devices.*

Family Hub

Connect Family, Home and Services

Launching : Feb. 2016, Regions : Korea, US, EU and China

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Food Management

View Inside cameras
Online Grocery Shopping
Recipes
Shopping List



Entertainment

Pandora /Tune-in Radio
TV Mirroring
+ BT Speaker connection



Family Comm.

Schedule (Google/Outlook)
Photo Sharing
Memo

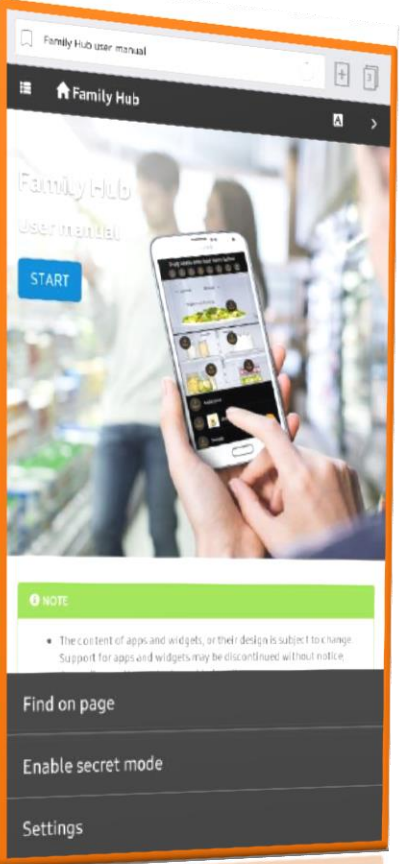
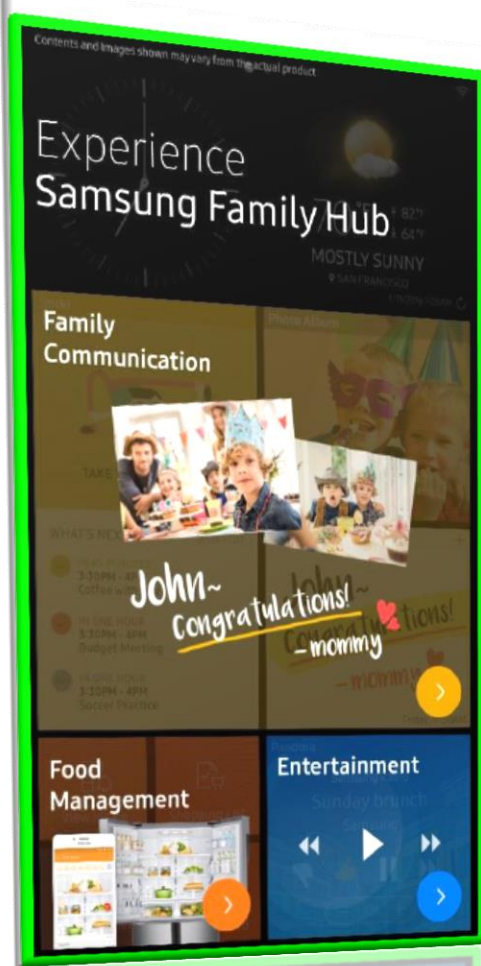
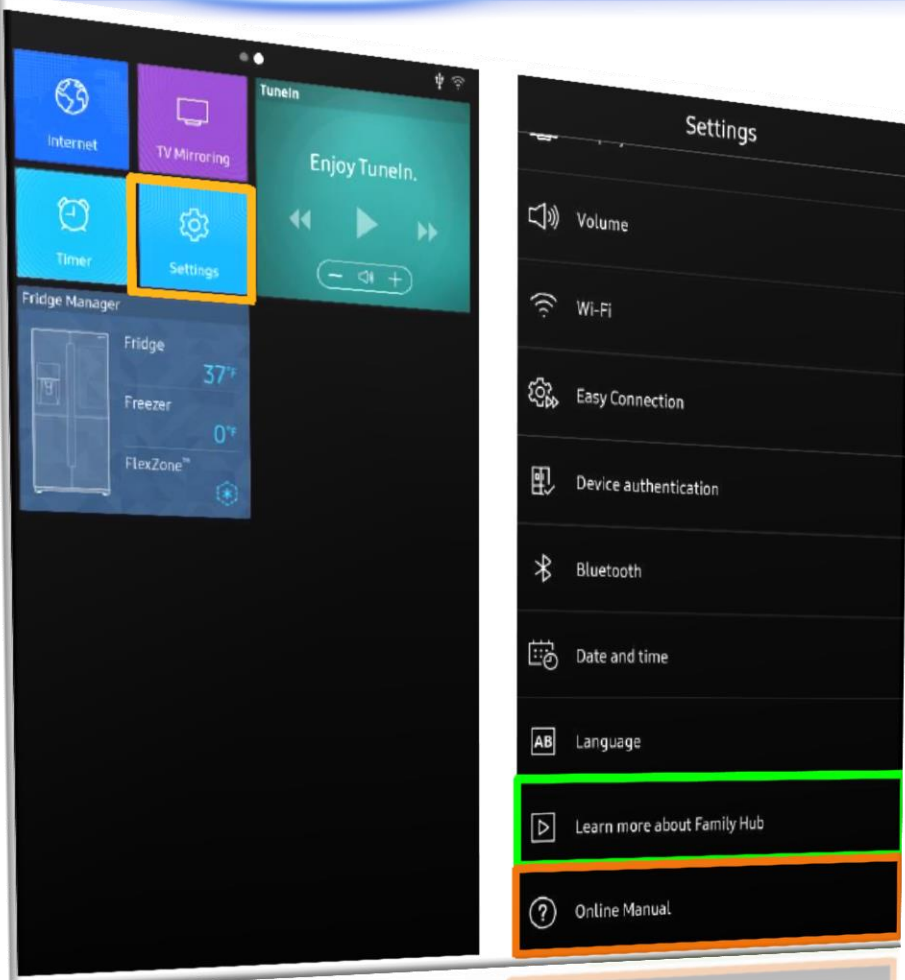


Smart home

Samsung Smart Home
SmartThings connectivity

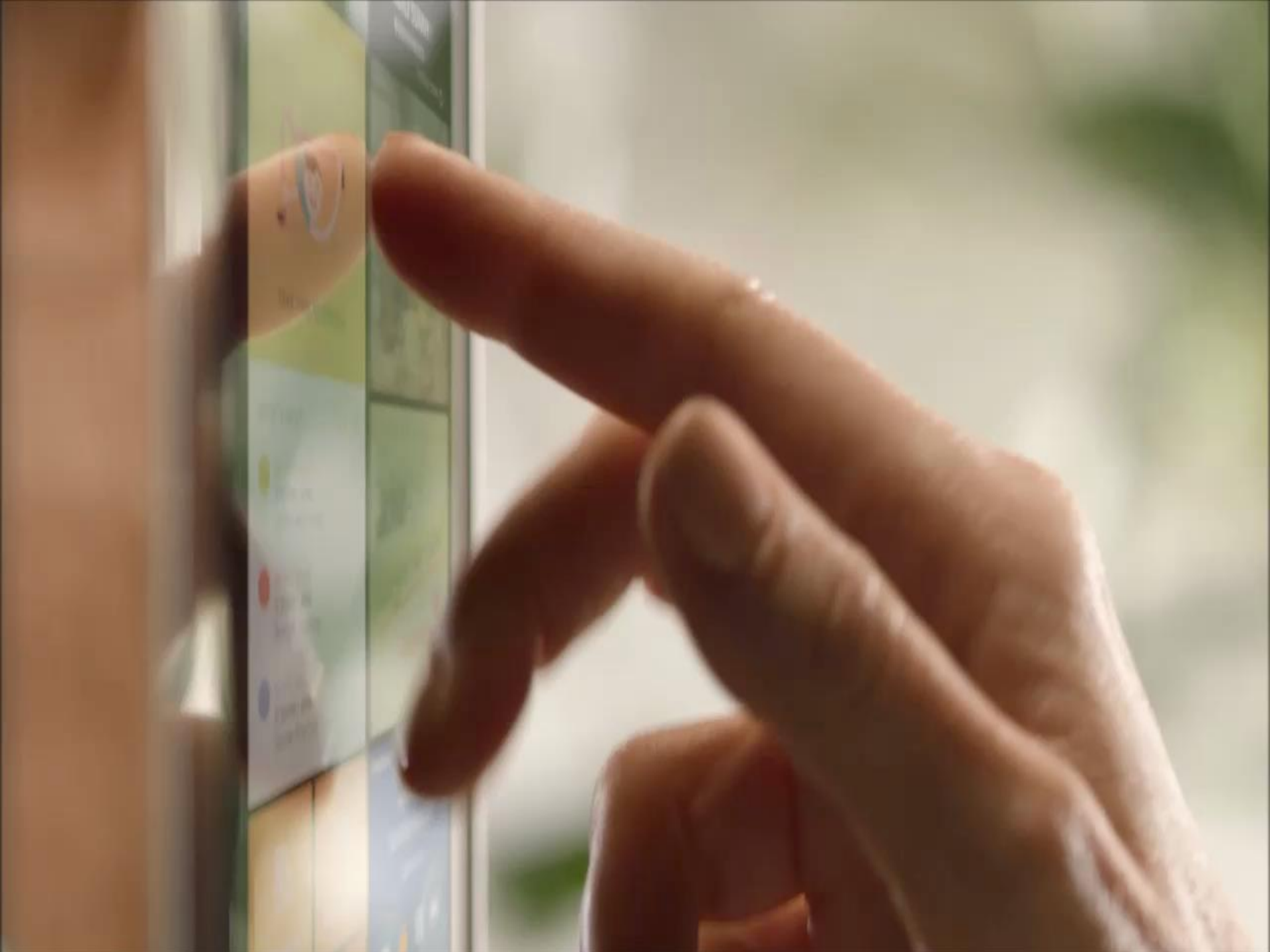
Coming Soon!





Internal Demo's

- This is a good way to show customers what the family hub has to offer.



➤ **Cameras in the Refrigerator capture images every time the door is closed**



“Do I have enough peppers for the salad I want to make tonight?”

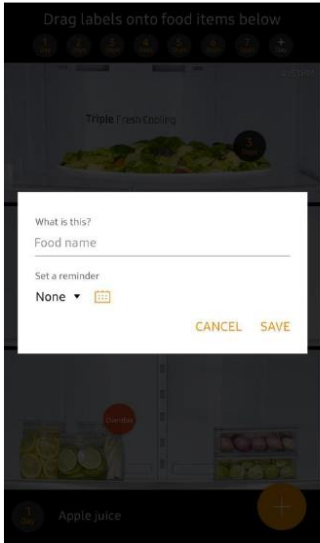
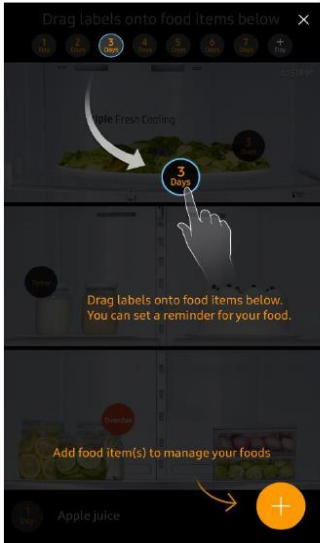
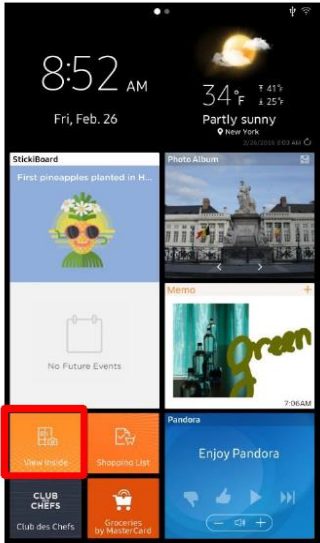


“Hmm.. I should check what’s in my fridge.”



“Oh, I have more than enough. I don’t need to buy more today.”

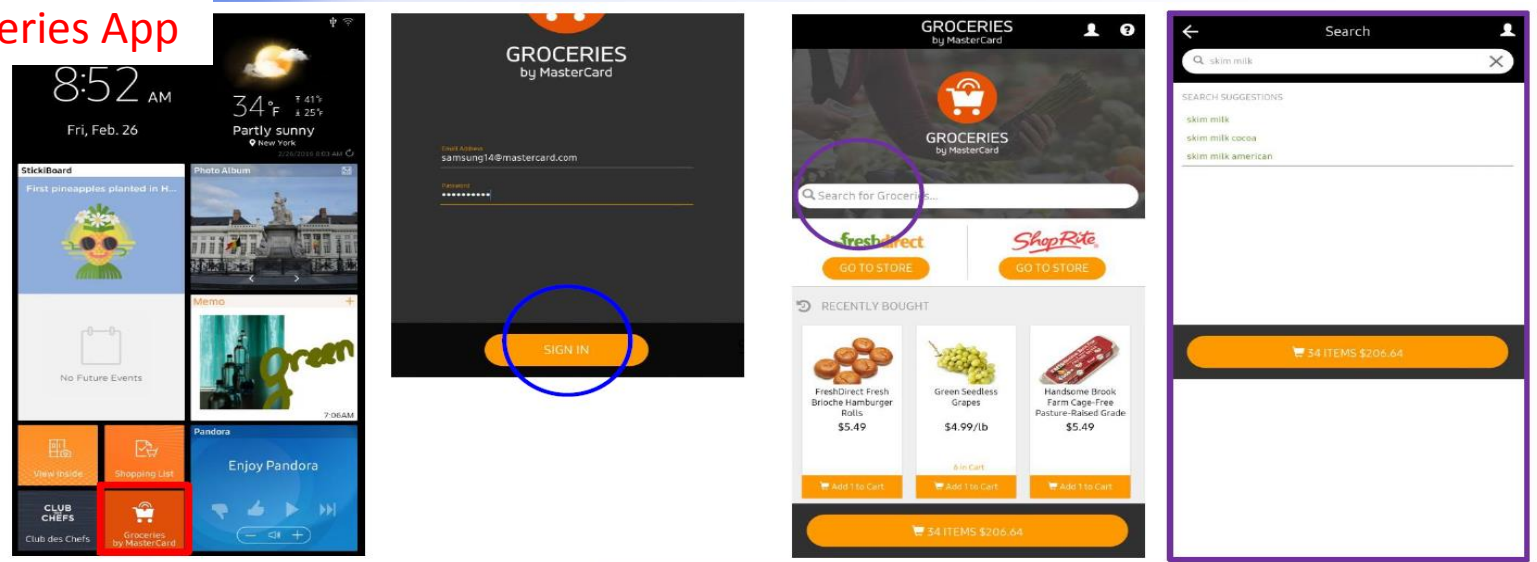
Door cameras takes a picture every time the door closes



Customers can tag expiration date by dragging and dropping badge, manually add items. It will notify expiration on the screen and their mobile.

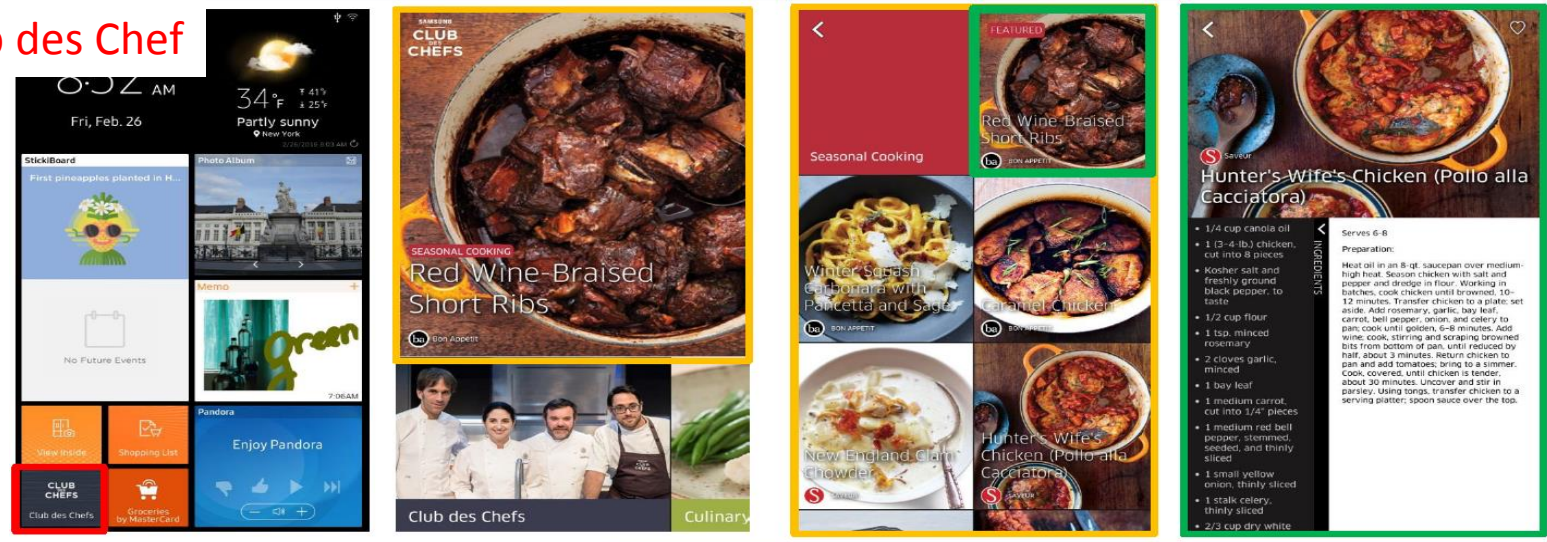


Groceries App



Consumers can search item by using search item menu.

Club des Chef



Club des Chef has more 500+ high quality cuisines. It has a plan to support voice service (TTS).

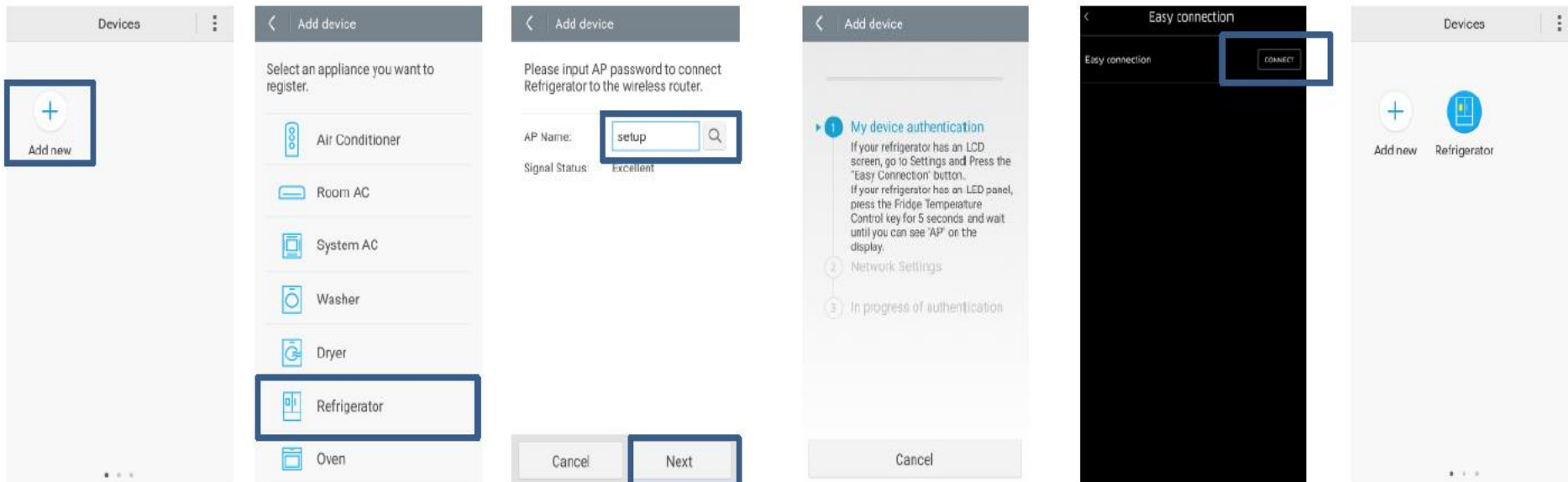
- Connected and Control Your Home using Wi-Fi feature





0. Download app from google play or Apple App Store.

1. Use the Add Device button(+) to proceed with the registration.
2. Select the refrigerator.
3. Provide the configuration information for your router or modem.
4. Follow the onscreen instructions to configure the settings of the refrigerator.
5. Go to Easy connection in Settings and click the connect button.
6. When the registration is completes, the refrigerator icon appears on the app.



Step 1:



Make sure TV and Fridge are connected to the same Wi-Fi Network

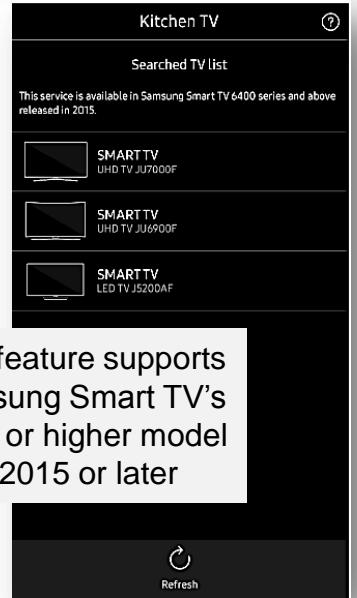
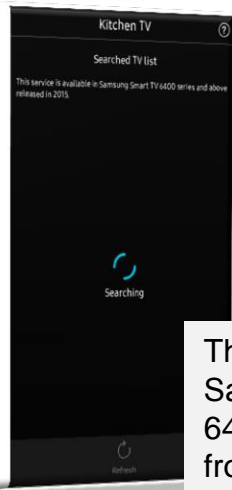
TV should have the Wi-Fi Direct Feature



Step 2:



Select TV Mirror on the Fridge



This feature supports Samsung Smart TV's 6400 or higher model from 2015 or later

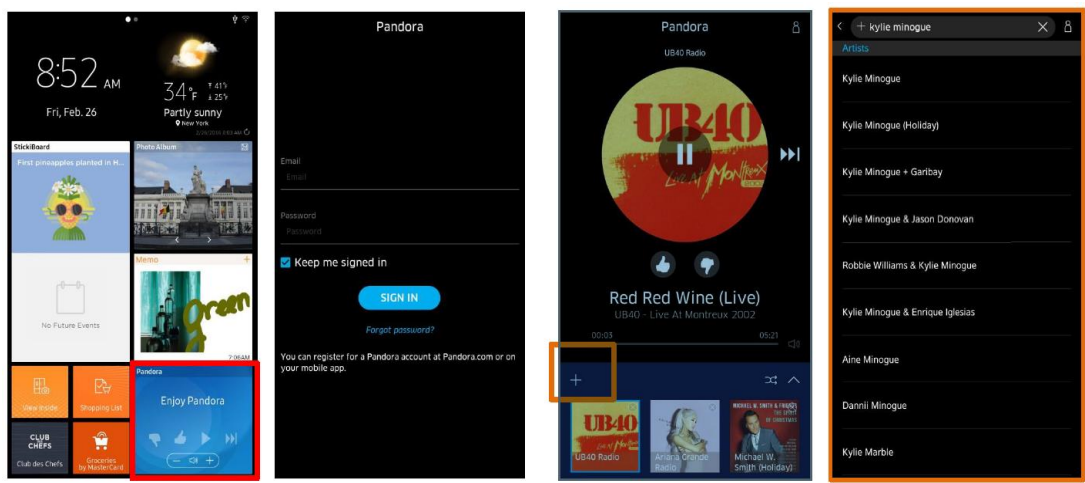
Step 3:

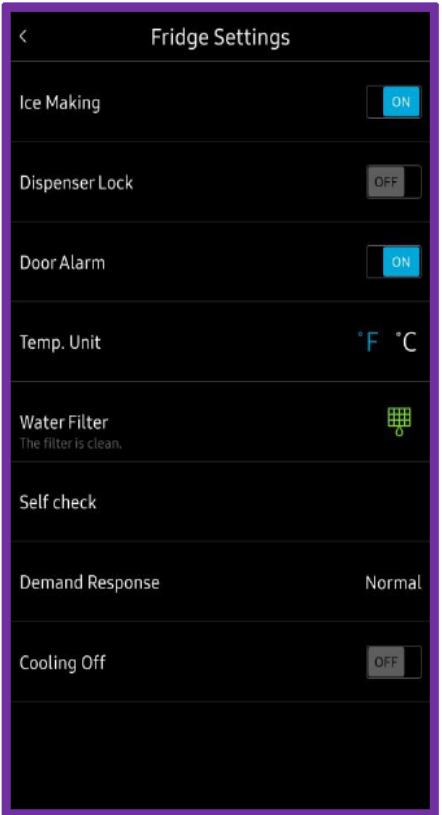
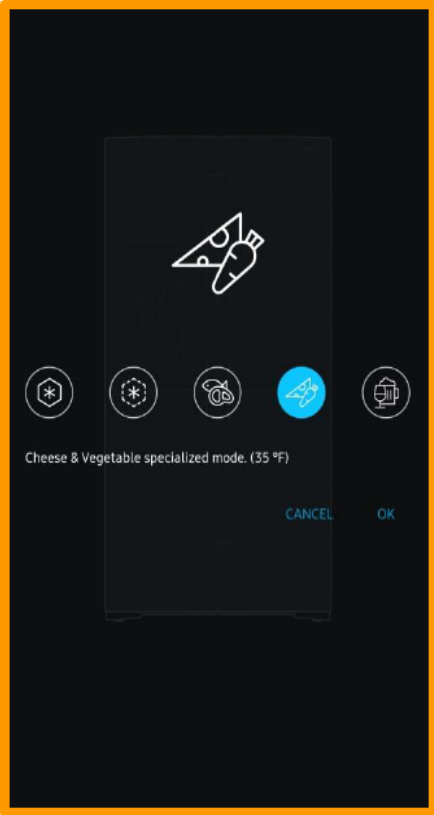
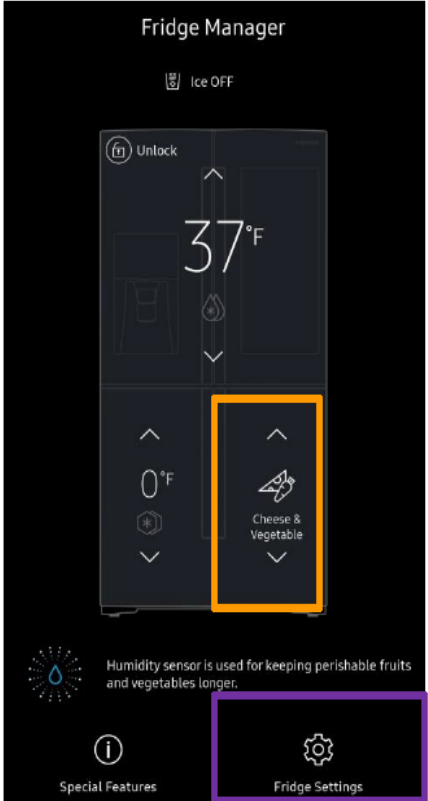
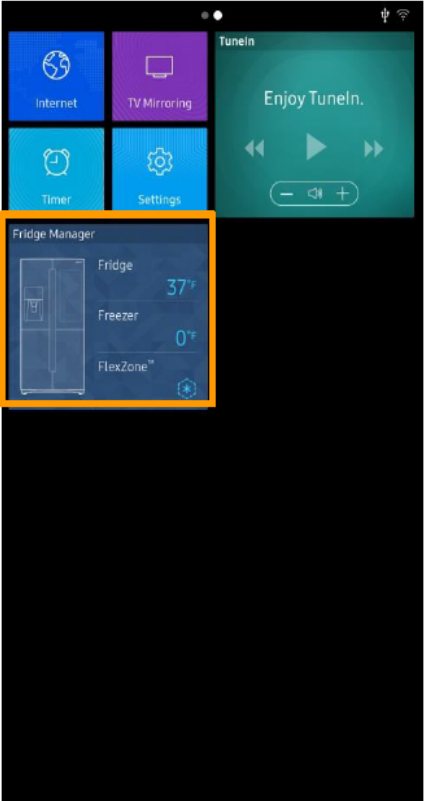
After Selecting the TV from the list go to the TV and allow the Fridge to connect to TV



➤ **Stream Pandora and TuneIn Radio on the Family Hub Refrigerator**

Play music through the built in speakers or pair with Bluetooth speakers





Consumer can check and change temperature and settings of refrigerator with easy-to-understand GUI

Engineer Mode and Troubleshooting



Entering Engineer Mode



System Information

Load Status

Self Diagnosis

Error History

Model Option

Force Run

Refrigerator Option

Energy Information



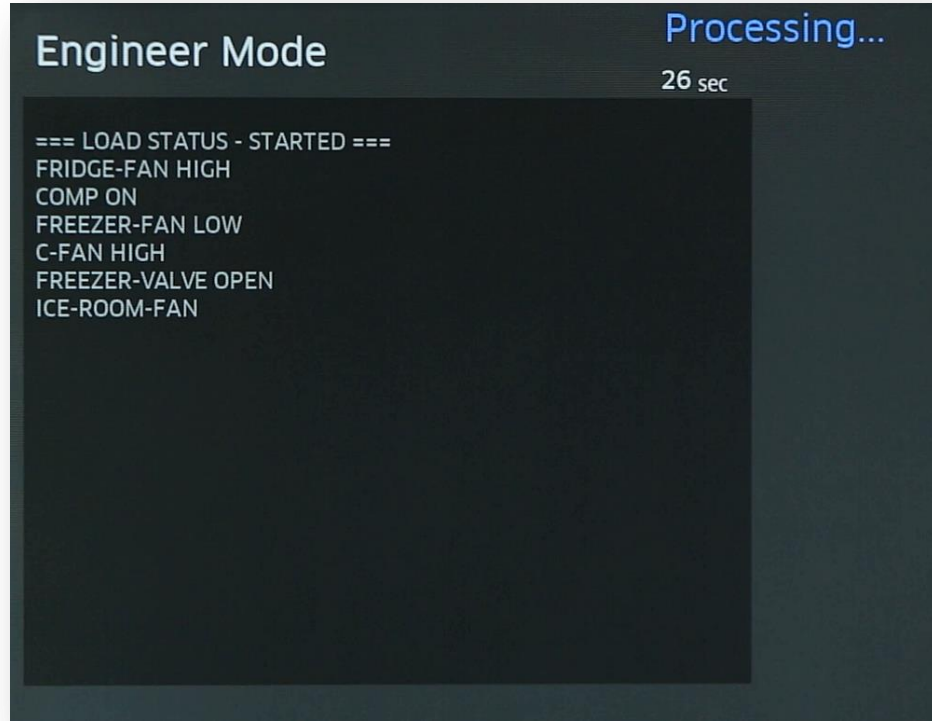
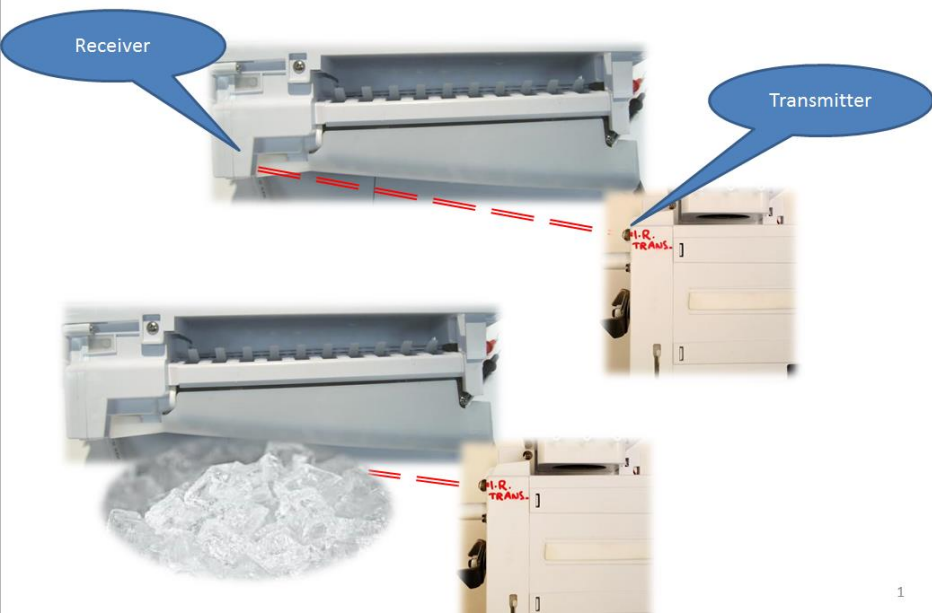
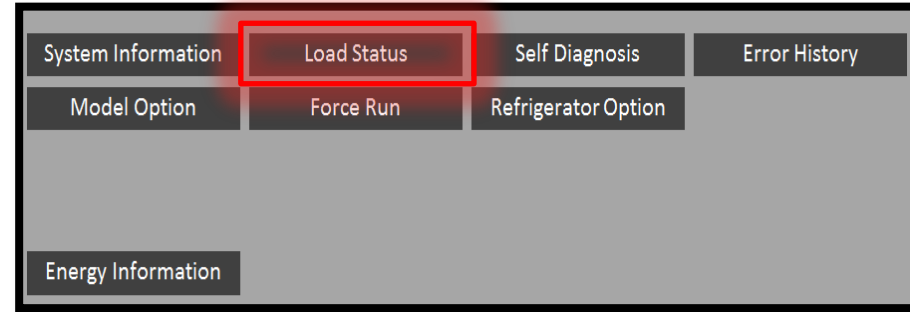
Load Status (Load Mode)

Load Status will show what components are currently running or activated on the Samsung Fridge

This mode is useful when troubleshooting communication signals

```

=== LOAD STATUS - STARTED ===
COMP ON
FREEZER-FAN LOW
C-FAN HIGH
CV-VALVE OPEN
FULL ICE
    
```



Self Diagnosis Mode

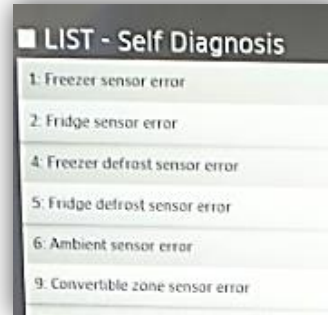
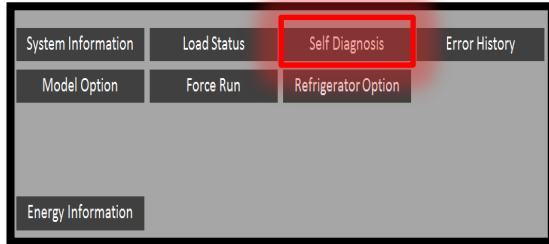
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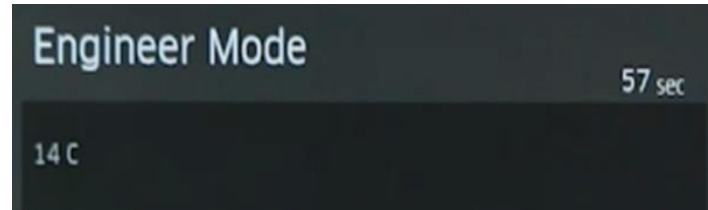
Engineer Mode – Self Diagnosis

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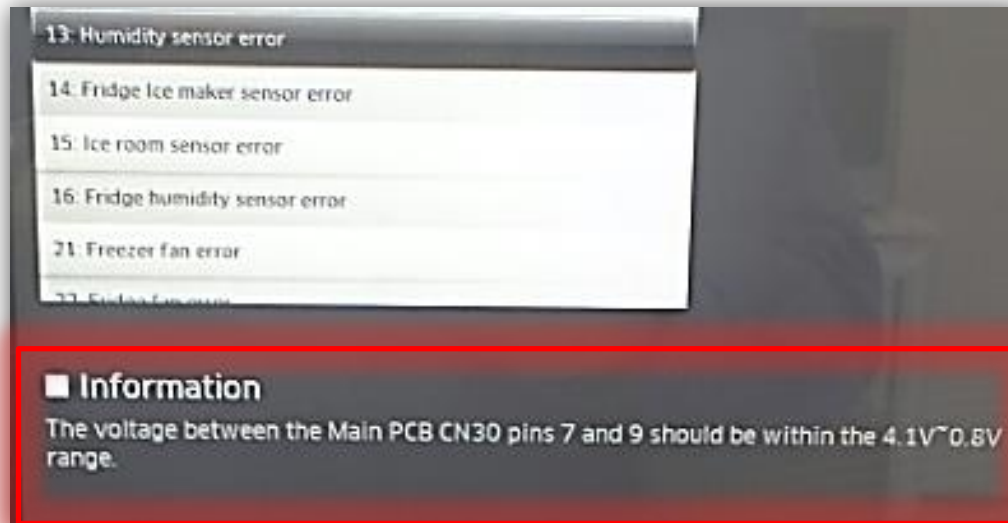
1. When Self Diagnosis is pressed the unit will automatically check all internal components that will be listed.



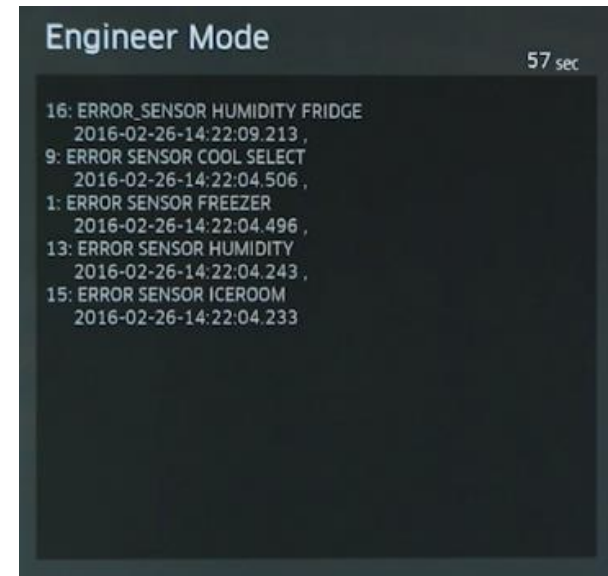
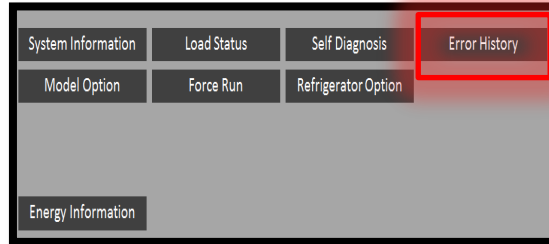
2. When Self Diagnosis is pressed the unit will automatically check internal components.



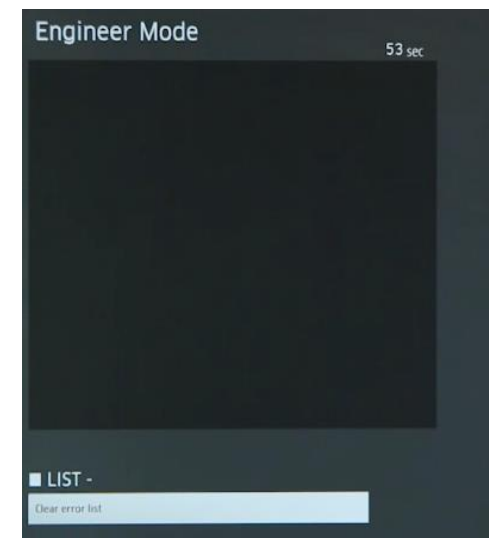
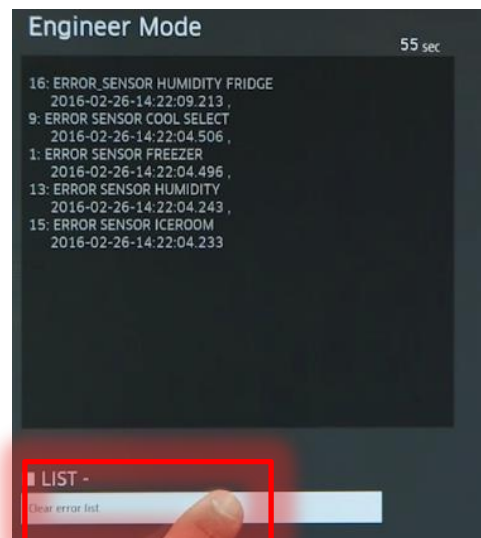
3. If an error is detected, you can click on the error to view possible check points



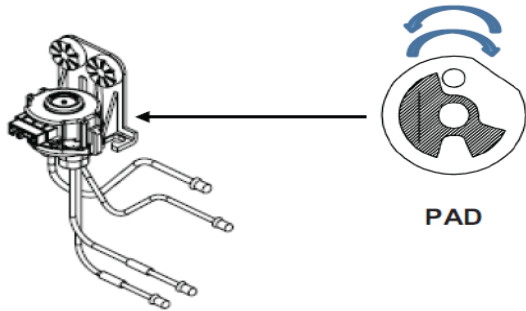
1. Error History will give you a full list of recorded errors.



2. To clear the recorded errors click the button labeled "Clear Error list"







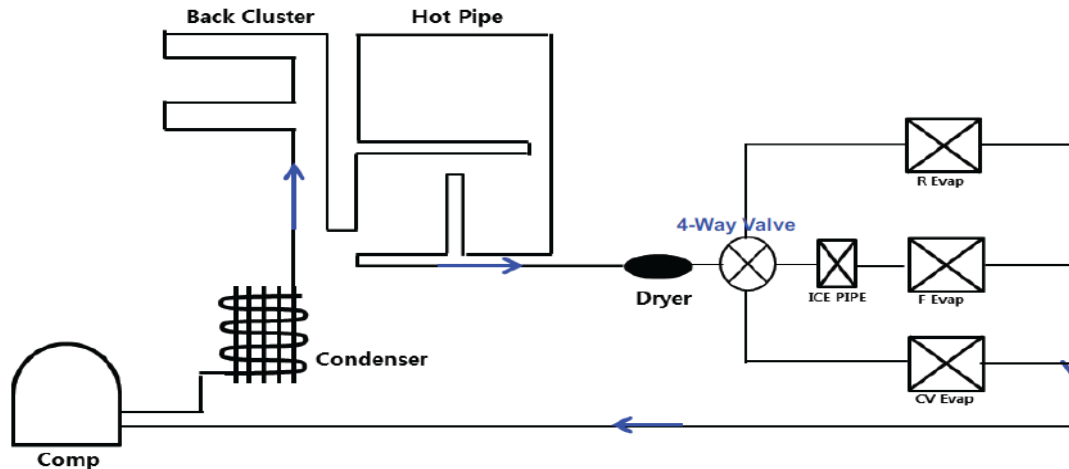
4-Way Valve

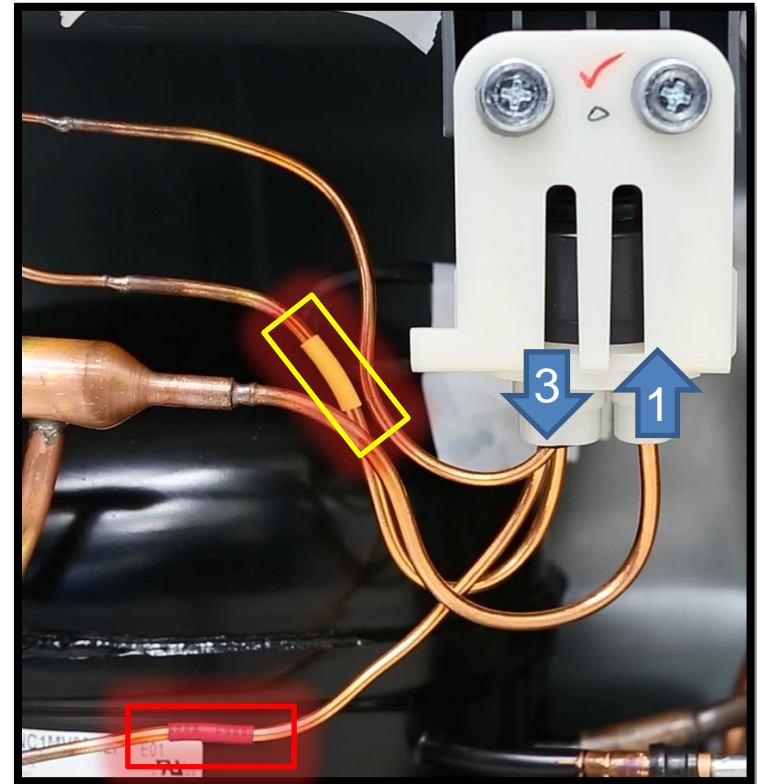
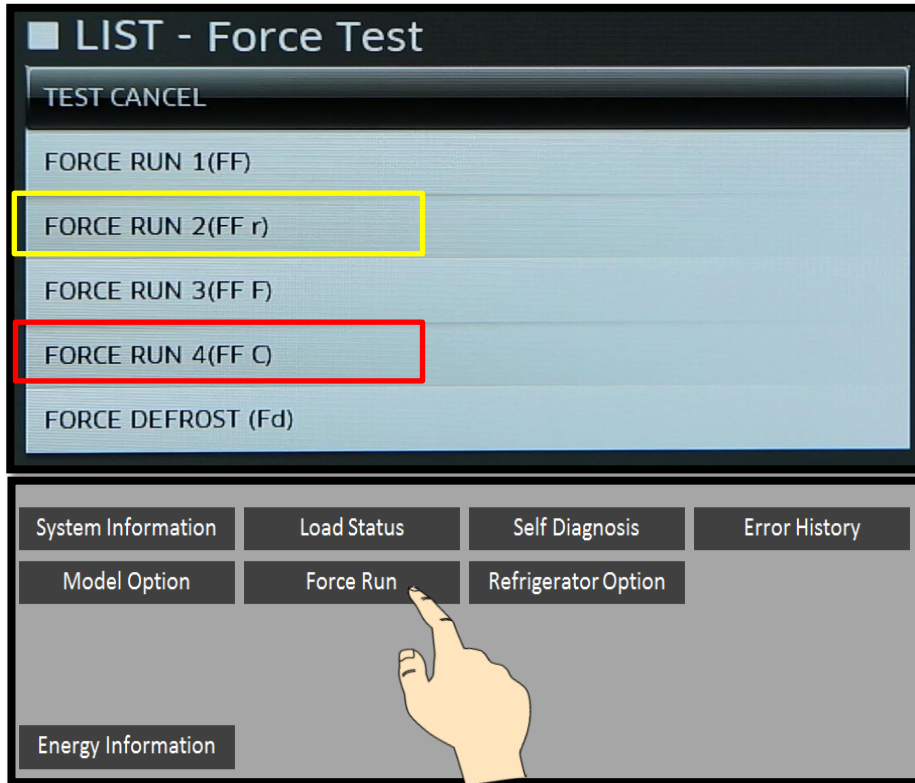
Swing operation means moving of PAD inside 4Way Valve. It makes refrigerant flow to each evaporator.

About Natural Defrosting

- This is a technology that helps keep food fresh by raising the humidity in the refrigerator by removing frost that has formed on the evaporator by running the fan when the cooling operation is not being executed.

About the Parallel Cycle (1-compressor is applied.)





- FF: Comp Run and Valve in “Swing” mode (valve moves based on compartment sensor)
- FFr: Comp Run and Fridge Valve (Yellow) on
- FFf: Comp Run and Freezer Valve (No Color) on
- FFc: Comp Run and Convertible Zone Valve (Red) on
- FD: Forced Defrost (Compressor OFF)

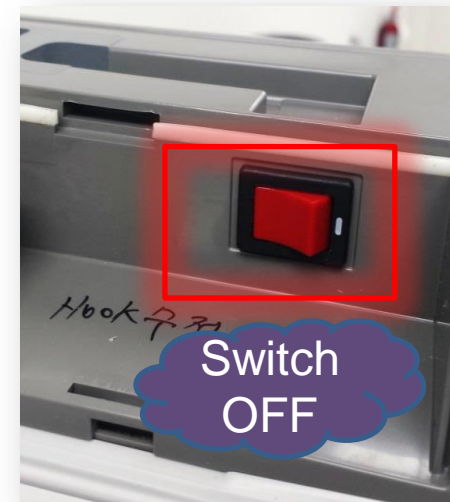
Replacing the Family Hub

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Step 1: Turn off the Family Hub. The switch is under the cover at the top of the right door. Its important to Always shut off power to avoid damage





Step 2: Remove the screw and cover at the top of the door



Step 3: Using a long magnetic screwdriver, carefully remove two screws



Step 4: Attach a suction cup to the Family Hub near the top. Carefully pull out the assembly (LCD Panel).



Avoid stretching the wiring too far, the harness or connector may become damaged if stretched too far.





Step 5: Remove the back cover from the assembly (LCD panel) and move the WI-FI module from the old assembly to the new assembly.





Step 6: Install the back cover onto the new assembly



Re-Installing

Step 7: Attach all wiring to the main board connectors and reinstall the assembly into the door. Reinstall the 2 screws



Turn the family hub switch on and reinstall the Switch cover and top cover



Replacing and Testing WI-FI Module

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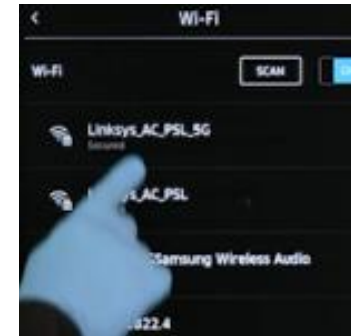
Replacing and Testing WI-FI Module

1.



After replacing the Wi-Fi module do the following to confirm Wi-Fi is operating

- Select Settings
- Select Wi-Fi
- Select Wireless router



2.

Have the customer enter their Wireless password



3.

Check the Wi-Fi Icon and check apps are loaded

If not loaded check MAC address and Wi-Fi signals



No Power to the Family Hub (blank screen)



No Power to the Family Hub (blank screen)

1.



If No Power to the display, first shut off the power to the Display at the top of the door



2.

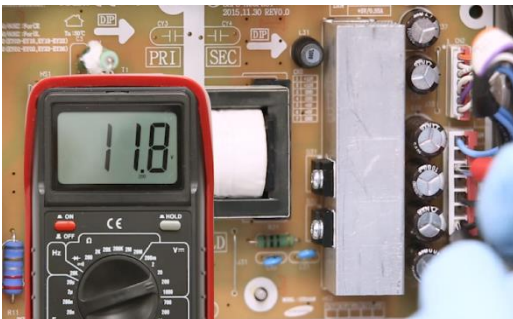


At the top of the door wire harness - Check each Black wire to each Blue wire for approx. 12V

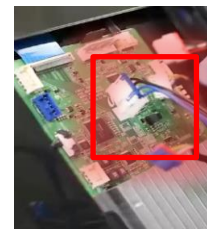


3.

If 12V is not detected at the top of the door, check for 12V at the Power board (SMPS). If no voltage replace (SMPS)



4.



If all voltages are ok, turn the power switch off and remove the Family hub display. Next check for 12V at the connector. Test the power switch, power should drop to 0v when shut off

