

LG Canada Software Upgrade & Universal Compressor Repair Process

Jan 2023

LG Refrigerator Software Update

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LG Overview

[Important] FLE (R600a) Service Compressor Discontinued

In an effort to simplify and standardize sealed system repairs for technicians, LG will no longer be supplying FLE compressors from 04/30/2021 onwards. **For any sealed system jobs that require a FLE compressor replacement, you MUST use a FLD compressor instead.** As such, if you place an order for an FLE compressor, you WILL instead receive an FLD compressor. Below are the part numbers for the discontinued FLE compressor and the standardized FLD compressor.

Discontinued / Unable to order

Compressor type	Part No
FLE165NAMA.AR11OIL	TCA36191402
FLE165NAMA.AR11SKD	TCA36191403
FLE165NAMA.AR1CSVC	TCA36191404
FLE165NAMA.AR11SVC	TCA36191405
FLE165NAMA.AR11REF	TCA36191406
FLE165NAMA.AR12REF	TCA36191407
FLE165NAMA.BR1MOIL	TCA37971202
FLE165NAMA.BE1MLGR	TCA37971203
FLE165NAMA.BE1MEMM	TCA37971204
FLE165NAMA.BE2MEMM	TCA37971205

Standardized

Compressor type	Part No
FLD165NBMA.AR11SVC	TCA36811406
FLD165NBMA.AR1CSVC	TCA36811409

Note, that as is required for the Universal compressor on R134a Refrigerators, **a service technician MUST upgrade the software on the PCB to complete the sealed system repair on an FLE applicable model.** Failure to do so, will cause the compressor to fail in the near future. As such, please make sure that your Compressor SW Upgrade jig is updated to the latest version to accommodate these changes.



LG Refrigerator Software Update - 1 of 5 slides

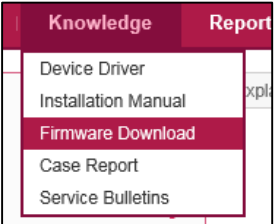
All existing Universal Compressor Jig SD card's in your possession need to be updated to software version V8.14- The total time to update is ~ 10 minutes.

Software:

- The software can be located and downloaded here through GSFS+:

at the

①



Change Division to REF and click Search

②



Click on Version 8.14 from the list and then Save the .zip file bottom of the new window. *

③



Upgrading Software version of Compressor Jig:

- Please watch the following instructional video on how to update the Universal Compressor PCB Jig:

<http://cdnlms.lge.com/ext/020/E004/2021/05/06/42d15cac-e5e4-4e68-a060-f835d28fd7b9.mp4>

Please ensure that after performing the upgrade your Jig is utilizing version 8.14



LG Refrigerator Software Update – 2 of 5 slides

1. Download and save .zip file to your computer (somewhere easy to find like your desktop)

2. Navigate to the file location

Name	Date modified	Type	Size
 20191119_FlashDownloader2_V8.7	1/22/2020 10:36 AM	ALZip ZIP File	420 KB

3. Right click the .zip file and select the “Extract to...” option

Name	Date modified	Type	Size
 20210421_GFCI능동서비스_글로벌	4/29/2021 1:50 PM	Compressed (zipp...	815 KB

Open

Open in new window

Extract All...

4. Once extracted, you will now see a folder with the same file name created

Name	Date modified	Type	Size
 20210421_GFCI능동서비스_글로벌	4/29/2021 1:50 PM	Compressed (zipp...	815 KB
 20210421_GFCI능동서비스_글로벌	4/29/2021 1:54 PM	File folder	

5. Double click on the folder to open it

6. Plug in your jig (with the Power Off) into a free USB port on your computer and the red indicator should light up

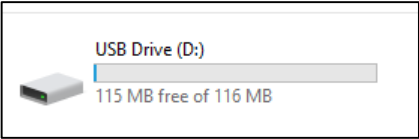


7. Move the switch on the jig to the “ON” position and the display should read “MASS Storage Connected!”



LG Refrigerator Software Update – 3 of 5 slides

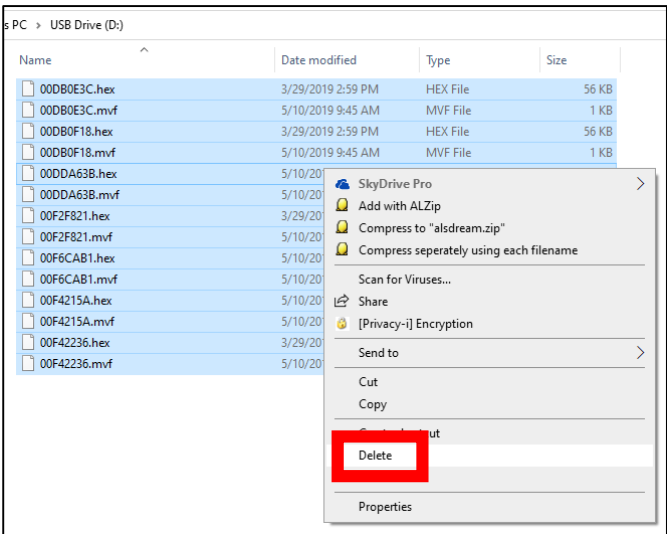
8. Go to Windows Explorer and look for a newly created USB drive



9. Double click on the Drive and you should see a list of files which are currently on the MicroSD card in the jig

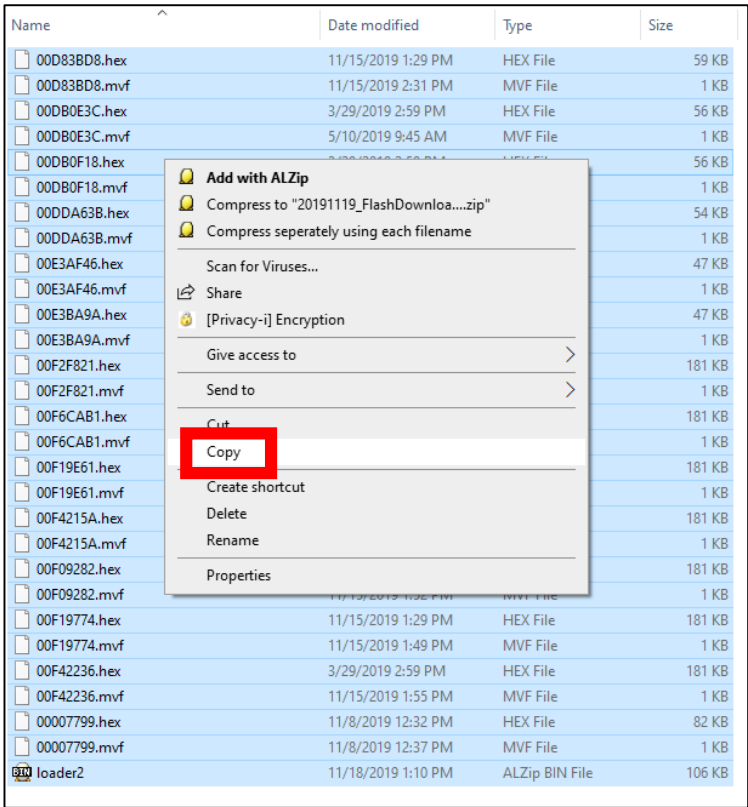
10. Select all of the files (click on the first file and then press CTRL+A to select all of the files)

11. Right click on any of the files in the selection and select “Delete”. Confirm the action. Leave this window open



12. Open up a second Windows Explorer window and navigate to the folder that you opened in Step 5 and select all of the files (click on the first file and then press CTRL+A to select all of the files – 57 files in total)

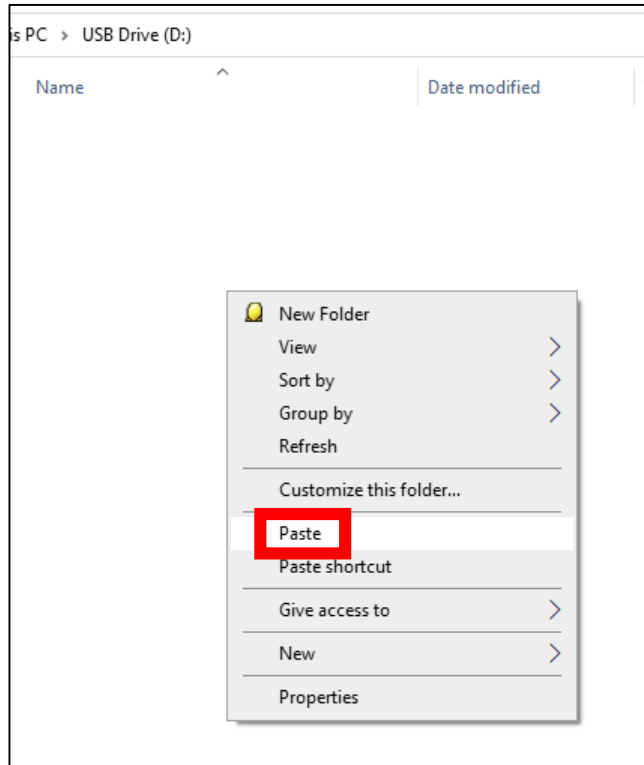
13. Right click on any of the files in the selection and select “Copy”



LG Refrigerator Software Update - 4 of 5 slides

14. Switch over to the newly created USB Drive window (from Step 11) which should not have any files anymore

15. Right click anywhere in the blank space and select "Paste"



16. All 57 files copied should now appear

PC > USB Drive (D:)			
Name	Date modified	Type	Size
00D83BD8.hex	11/15/2019 1:29 PM	HEX File	59 KB
00D83BD8.mvf	11/15/2019 2:31 PM	MVF File	1 KB
00DB0E3C.hex	3/29/2019 2:59 PM	HEX File	56 KB
00DB0E3C.mvf	5/10/2019 9:45 AM	MVF File	1 KB
00DB0F18.hex	3/29/2019 2:59 PM	HEX File	56 KB
00DB0F18.mvf	11/15/2019 2:31 PM	MVF File	1 KB
00DDA63B.hex	5/10/2019 7:45 AM	HEX File	54 KB
00DDA63B.mvf	11/15/2019 8:40 AM	MVF File	1 KB
00E3AF46.hex	5/3/2019 4:57 PM	HEX File	47 KB
00E3AF46.mvf	11/15/2019 8:11 AM	MVF File	1 KB
00E3BA9A.hex	5/3/2019 4:57 PM	HEX File	47 KB
00E3BA9A.mvf	11/15/2019 8:12 AM	MVF File	1 KB
00F2F821.hex	3/29/2019 2:59 PM	HEX File	181 KB
00F2F821.mvf	11/15/2019 1:57 PM	MVF File	1 KB
00F6CAB1.hex	5/10/2019 7:45 AM	HEX File	181 KB
00F6CAB1.mvf	11/15/2019 8:40 AM	MVF File	1 KB
00F19E61.hex	11/15/2019 1:29 PM	HEX File	181 KB
00F19E61.mvf	11/15/2019 1:50 PM	MVF File	1 KB
00F4215A.hex	5/10/2019 7:45 AM	HEX File	181 KB
00F4215A.mvf	11/15/2019 8:40 AM	MVF File	1 KB
00F09282.hex	11/15/2019 1:29 PM	HEX File	181 KB
00F09282.mvf	11/15/2019 1:52 PM	MVF File	1 KB
00F19774.hex	11/15/2019 1:29 PM	HEX File	181 KB
00F19774.mvf	11/15/2019 1:49 PM	MVF File	1 KB
00F42236.hex	3/29/2019 2:59 PM	HEX File	181 KB
00F42236.mvf	11/15/2019 1:55 PM	MVF File	1 KB
00007799.hex	11/8/2019 12:32 PM	HEX File	82 KB
00007799.mvf	11/8/2019 12:37 PM	MVF File	1 KB
loader2	11/18/2019 1:10 PM	ALZip BIN File	106 KB

LG Refrigerator Software Update – 5 of 5 slides

14. Move the switch on the jig to the “OFF” position and remove it from the USB port

15. Move the switch on the jig back to the “ON” position

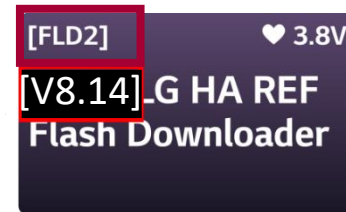
16. The display should now read:



17. Push the Start button once and you will hear a beep and the jig will load the new software from the updated MicroSD card



18. Once the jig is updated, you will see the below message on the display:

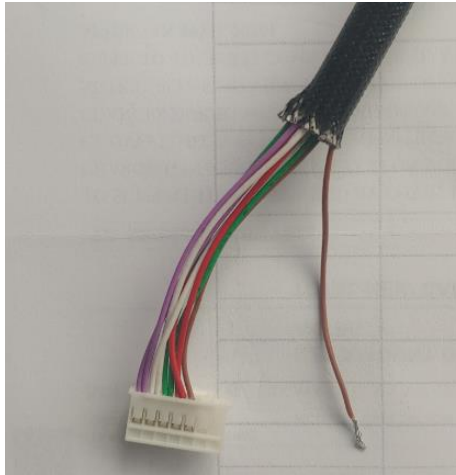


19. This indicates that the your jig has successfully been updated to the latest version of the software – Version 8.10

18. The jig is now ready to use

Update: Jig wire now available separately as a part

You may come across a situation where the wire on your jig breaks:



- You can now order the wire itself from our Parts Department: **Part # EAD65025201**
- If you need to re-order the jig itself, the part # is CJT300000002

Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

Service Bulletin about service compressor replacement FLE165NAMA → FLD165NBMA (Compressor replacement guide)

Bulletin Type : SVC Notice ☒ Parts ☐ Others ☐ Applicable only with symptoms ☒ with every ☐ repair

Applicable for Serial Number :

Applicable for models : refer to page 10

Symptoms	FLE Compressor replacement (FLE165NAMA→FLD165NBMA)	Picture	N/A
Cause	N/A		

1. Repair Instruction

※ Compressor (FLE165NAMA→ FLD165NBMA) replacement service

- The models with FLE165NAMA compressor can be replaced with the FLD165NBMA compressor and must be changed together with PCB software upgrade for the FLD165NBMA compressor.
- You can proceed with the software upgrade by referring to the quick guide included with the compressor as shown below.(Page3~4)

■ Training video



<https://www.youtube.com/watch?v=Z5oMBH3CSK0&feature=youtu.be>

Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

Current and New (Visual / Part number & Name etc)

Component	Current SVC Parts		New SVC Parts
Compressor	모델.Suffix	Set Part No	FLD165NBMA TCA36811409 (With S/W updated Label on comp)
	FLE165NAMA.BR1MOIL	TCA37971202	
	FLE165NAMA.BE2MEMM	TCA37971205	
	FLE165NAMA.BE1MLGR	TCA37971203	
	FLE165NAMA.BE1MEMM	TCA37971204	
	FLE165NAMA.AR1CSVC	TCA36191404	
	FLE165NAMA.AR12REF	TCA36191407	
	FLE165NAMA.AR11SVC	TCA36191405	
	FLE165NAMA.AR11SKD	TCA36191403	
	FLE165NAMA.AR11REF	TCA36191406	
	FLE165NAMA.AR11OIL	TCA36191402	

Part Interchangeable :

Yes or No 로 표기

	Current Part	New Part
Current Product	No	Yes
New Product	No	Yes

Scrap Current Part in LG Warehouse: Yes ☒ No ☐

※ Do not use **TR** FLE165NAMA Compressor and scrap it
P/No : TCA37971202,03,04,05
However, **CW** FLE165NAMA Compressor is available.
P/No : TCA36191402,03,04,05,06,07

Extended Warranty

This service is covered by an extended warranty

Yes ☐

No ☒

- If Yes, Parts for () years and Labor for () years by LG.
- If No, Parts and labor are charged to the customer if outside warranty period.

- The warranty period, including any extended warranty above, starts from the original date of purchase.

- The information is available through "https://gsfs-america.lge.com" with a valid ID.
- The information is intended for experienced technicians, not for customer.
- The information is subject to change or update without notice.

Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

1. Repair Instruction (Front)

Quick SW Update Guide (Front)

1. Check the components in the SVC comp box.

- Quick SW Guide (Current)
- Compressor : FLD165NBMA
- Sticker label

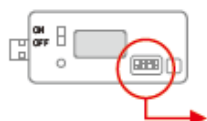
2. Unit should be unplugged and refrigerant removed. After that, you should perform the S/W Upgrade.

2-1. Software Upgrade by JIG (Compressor Socket)

1) Check again that refrigerator power cord is unplugged.

***If the power cord is plugged, the Jig and PCB will be damaged.**

2) Check Jig Switch Setting



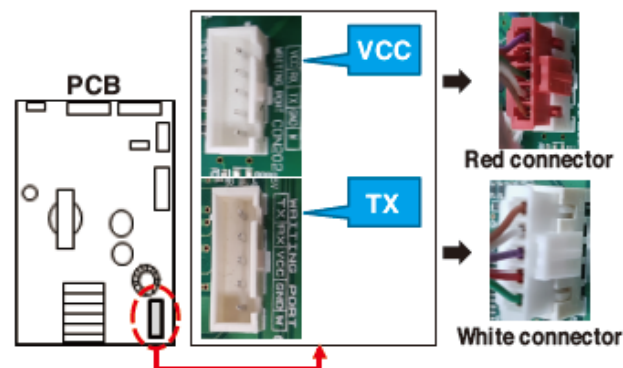
Auto mode
On #2, #3
Off #1, #4

2-1. Software Upgrade by JIG (Compressor Socket)

3) Check the PCB for the mark on pin 1 of the 5-pin socket

If the mark is Vcc, Connect red connector

If the mark is Tx, Connect white connector.

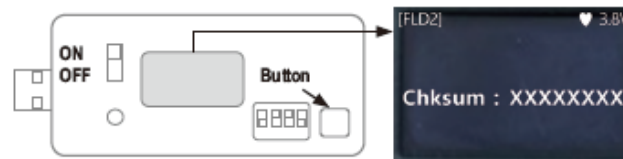


※ If incorrect connection of socket, PCB will be out of run.

※ If you don't see a mark (Vcc,Tx), please refer to the service technical information.

4) Turn on the jig and press the button once.
Then the buzzer sounds.

5) When MCU and Checksum are displayed on the screen, press the button more than twice.
Then the buzzer rings twice.



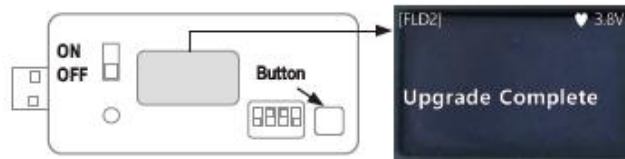
Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

1. Repair Instruction (Back)

Quick SW Update Guide (Back)

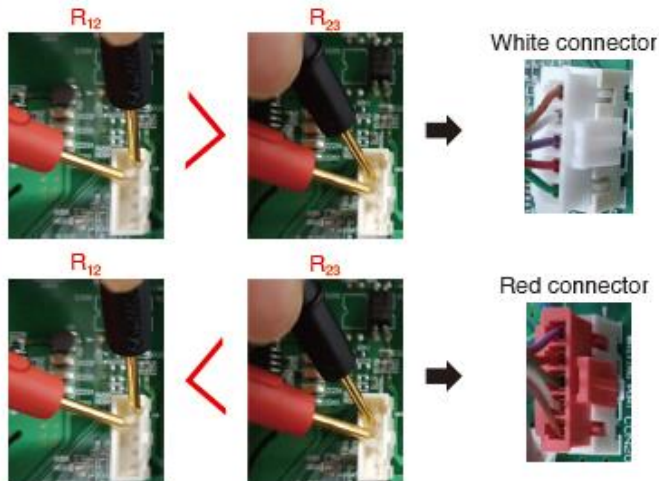
6) When the "Upgrade complete" screen appears, turn off the jig and remove harness



※ If the upgrade fails, refer to the service technical information.

※ To check for connector wiring(no mark)

- 1) Measure the resistance of pins 1 and 2 of the socket. (R12)
- 2) Measure the resistance of pins 2 and 3 of the socket. (R23)



3. Install the New compressor.

4. Refrigerator Power On, Check for normal operation

5. Attach the sticker label on the PCB Cover

Please write below & place this Sticker to PCB cover after S/W update

S/W Update Date: _____

PLEASE READ
This PCB has been S/W updated to compatible with FLD1638 type of compressor. If you attempt to replace PCB, please update S/W.

※ Failure to update Software will result in improper cooling.

If you do not have S/W Writing jig or have difficulties with Software update, please contact:
LG Technical Call Center 1400-60107597 / Call To STAC(Sears)

Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

1. Repair Instruction [Guide - Comp S/W writing]



WARNING

Unplug the refrigerator power cord

If the power cord is not unplugged, the Jig and PCB will be damaged

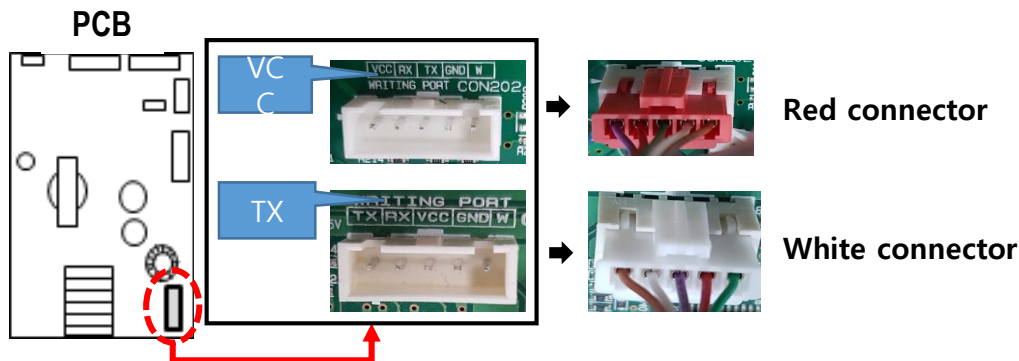
1. Auto mode setting



2. Jig harness to PCB connector

Check the PCB for the mark on pin 1 of the 5-pin socket.

If the mark is Vcc, connect the red connector and the white connector if the mark is Tx.

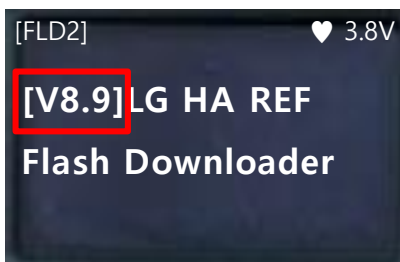


Red connector

White connector

3. Power on

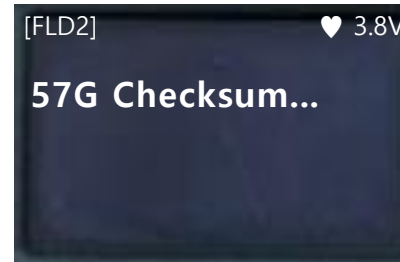
Check the firmware version and update



4. Press button



5. Check in progress



Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

1. Repair Instruction [Guide - **Comp S/W** writing]

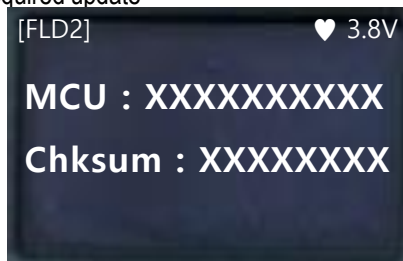


Unplug the refrigerator power cord
If the power cord is not unplugged, the Jig and PCB will be damaged

6. Wait until the MCU and Checksum are displayed. 7. Press button

Check the checksum "as is" in the following table. If 'As is' = 'To be', then no

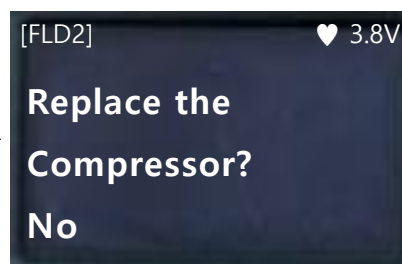
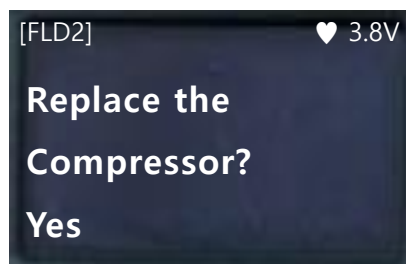
Required update



8. Screen to select whether to replace the compressor

Press the button to display Yes or No alternately.

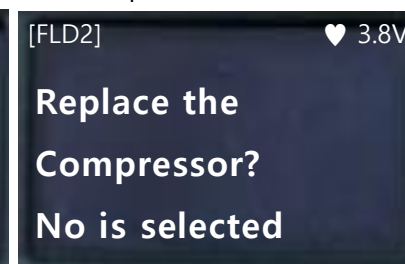
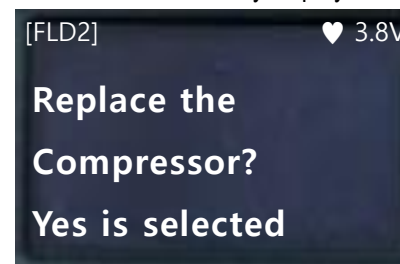
The screen is only displayed on certain compressors.



9. Choose whether to replace the compressor

Press and hold the button for more than 3 seconds to select.

The screen is only displayed on certain compressors



Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

1. Repair Instruction [Guide - Comp S/W writing]



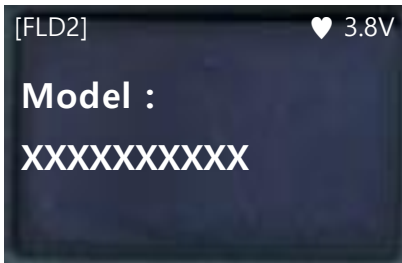
WARNING

Unplug the refrigerator power cord
If the power cord is not unplugged, the Jig and PCB will be damaged

10. Press button



11. Displays the Compressor model name to be serviced

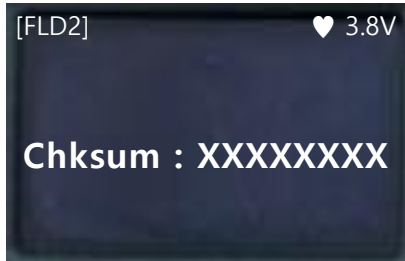
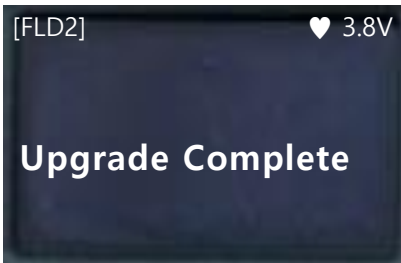


12. Press button



13. Upgrade success screen

The download will proceed automatically.
Displayed alternately when upgrade is complete
Check the checksum "To be" in the following table



Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

Check the checksum in the table below(**Compressor not replaced**)

No	Check sum			
	As is		To be	
	Compressor	Check Sum	Compressor	Check Sum
1	FC75LBNA	0x00E3AF46	FC75LBNA	0x00E3AF46
		0x00E3BA9A	FC75LBNA	0x00E3BA9A
2	FLB075LANA	0x00F64129	FLB075LANA	0x00F19E61
		0x00F58DC5		
		0x00F5B5E6		
		0x00F53592		
3	FLB075LANA	0x00DCC82D	FLB075LANA	0x00D83BD8
		0x00DC25B8		
4	FLB075LBNA	0x00F5B4EC	FLB075LBNA	0x00F19774
		0x00F5B024		
		0x00F56E25		
		0x00F570D2		
5	FLB075LBNA	0x00F422A6	FLB075LBNA	0x00F09282
6	FLA075LANA	0x00DDA63B	FLS075LANA	0x00DDA63B
		0x00F6CAB1	FLS075LANA	0x00F6CAB1
		0x00F4215A	FLS075LANA	0x00F4215A
7	FLE165NAMA	0x0000D3E5	FLE165NAMA	0x0000D3E5
		0x0000C085	FLE165NAMA	0x0000C085
		0x000094A3	FLE165NAMA	0x000094A3
		0x00003BA3	FLE165NAMA	0x00003BA3
		0x00009DAF	FLE165NAMA	0x00009DAF
		0x00007876	FLE165NAMA	0x00007876
		0x00006FAC	FLE165NAMA	0x00006FAC
		0x0000D743	FLE165NAMA	0x0000D743

Check the checksum in the table below(**Compressor replaced**)

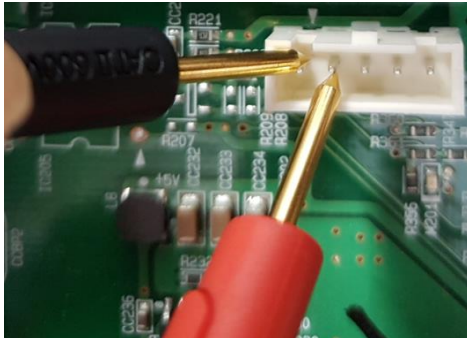
No	Check sum			
	As is		To be	
	Compressor	Check Sum	Compressor	Check Sum
1	FC75LBNA	0x00E3AF46	FLS075LANA	0x00DB0E3C
		0x00E3BA9A		
2	FLB075LANA	0x00F64129	FLS075LANA	0x00F42236
		0x00F58DC5		
		0x00F5B5E6		
		0x00F53592		
		0x00F19E61		
3	FLB075LANA	0x00DCC82D	FLS075LANA	0x00DB0F18
		0x00DC25B8		
		0x00D83BD8		
4	FLB075LBNA	0x00F5B4EC	FLS075LANA	0x00F42236
		0x00F5B024		
		0x00F56E25		
		0x00F570D2		
		0x00F19774		
5	FLB075LBNA	0x00F422A6	FLS075LANA	0x00F2F821
		0x00F09282		
6	FLA075LANA	0x00DDA63B	FLS075LANA	0x00DDA63B
		0x00F6CAB1	FLS075LANA	0x00F6CAB1
		0x00F4215A	FLS075LANA	0x00F4215A
7	FLE165NAMA	0x0000D3E5	FLD165NBMA	0x0000D2D1
		0x0000C085		
		0x000094A3		
		0x00003BA3		
		0x00009DAF		
		0x00007876		
		0x00006FAC		
		0x0000D743		

Service Bulletin

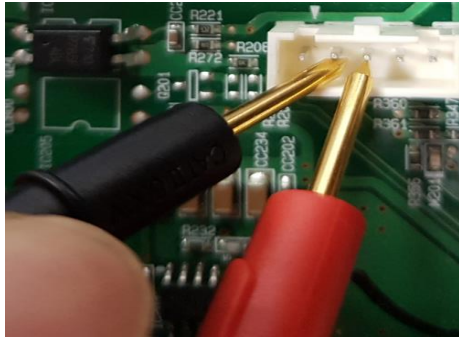
Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

<To check for connector wiring if there is no mark on the socket>

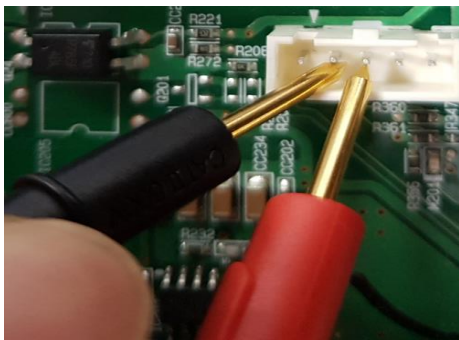
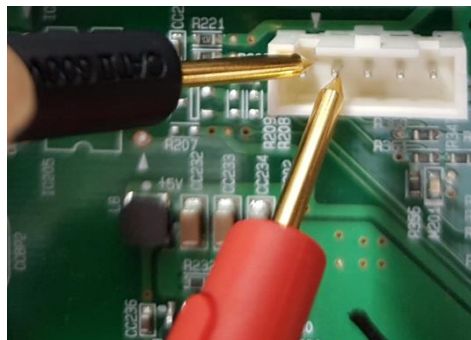
1) Measure the resistance of pins 1 and 2 of the socket. (R_{12})



2) Measure the resistance of pins 2 and 3 of the socket. (R_{23})



$R_{12} > R_{23}$ connect the white connector.



$R_{12} < R_{23}$ connect the red connector.



Service Bulletin

Product : Ref
Bulletin # : CNZ202100088
Release Date : '21.04.12.

NO	Comp	Set Part No	Model Suffix	Sales Model Suffix
1	FLE165NAMA	TCA37971202	GC-B288NSNM.ASTCNA3	LFCS28768S.ASTCNA0
2	FLE165NAMA	TCA37971202	GC-J288NMXM.AMTCNA3	LFXS28566M.AMTCNA0
3	FLE165NAMA	TCA37971202	GC-J288NSXM.ASTCNA3	LFXS28566S.ASTCNA0
4	FLE165NAMA	TCA37971202	GC-L288NKXM.ASBCNA3	LFXS28968D.ASBCNA0
5	FLE165NAMA	TCA37971202	GC-L288NSXM.ASTCNA3	LFXS28968S.ASTCNA0
6	FLE165NAMA	TCA37971205	GM-L258NKXM.ASBCNA0	LRFXS2503D.ASBCNA0
7	FLE165NAMA	TCA37971205	GM-L258NSXM.ASTCNA0	LRFXS2503S.ASTCNA0
8	FLE165NAMA	TCA37971203	GR-B238NSNM.ASTCNA2	LFCC22426S.ASTCNA0
9	FLE165NAMA	TCA37971203	GR-B238NSNM.ASTCNA4	LFCC22426S.ASTCNA0
10	FLE165NAMA	TCA37971203	GR-G23ANSNM.ASTCNA0	LMWC23626S.ASTCNA0
11	FLE165NAMA	TCA37971203	GR-J288NKXM.ASBCNA4	LFXS28566D.ASBCNA0
12	FLE165NAMA	TCA37971203	GR-J288NMXM.AMTCNA4	LFXS28566M.AMTCNA0
13	FLE165NAMA	TCA37971203	GR-J288NSXM.ASTCNA4	LFXS28566S.ASTCNA0
14	FLE165NAMA	TCA37971203	GR-L228NKSM.ASBCNA2	LFXC22526D.ASBCNA0
15	FLE165NAMA	TCA37971203	GR-L228NSSM.ASTCNA2	LFXC22526S.ASTCNA0
16	FLE165NAMA	TCA37971203	GR-L268NKSM.ASBCNA2	LFXS26973D.ASBCNA0
17	FLE165NAMA	TCA37971203	GR-L268NSSM.ASTCNA2	LFXS26973S.ASTCNA0
18	FLE165NAMA	TCA37971203	GR-L288NKXM.ASBCNA4	LFXS28968D.ASBCNA0
19	FLE165NAMA	TCA37971203	GR-L288NSXM.ASTCNA4	LFXS28968S.ASTCNA0
20	FLE165NAMA	TCA37971203	GR-L28ANKXM.ASBCNA4	LMXS28626D.ASBCNA0
21	FLE165NAMA	TCA37971203	GR-L28ANSXM.ASTCNA4	LMXS28626S.ASTCNA0
22	FLE165NAMA	TCA37971203	GR-L28ANSYM.ASTCNA0	LMRS28626S.ASTCNA0
23	FLE165NAMA	TCA37971204	GM-J267NKXL.ASBCNA8	LSXS26366D.ASBCNA0
24	FLE165NAMA	TCA37971204	GM-J267NKXL.ASBCNAZ	LSXS26366D.ASBCNA0
25	FLE165NAMA	TCA37971204	GM-J267NSBL.ASTCNA8	LSXS26366S.ASTCNA0
26	FLE165NAMA	TCA37971204	GM-J267NSBL.ASTCNAZ	LSXS26366S.ASTCNAZ
27	FLE165NAMA	TCA37971204	GM-L227ASBM.ASTCNA5	LSXC22426S.ASTCNA0
28	FLE165NAMA	TCA37971204	GM-L227ASBM.ASTCNA6	LSXC22426S.ASTCNA0
29	FLE165NAMA	TCA37971204	GM-L267NSGL.ASTCNA9	LSXS26326S.ASTCNA0
30	FLE165NAMA	TCA37971204	GM-L267NSGL.ASTCNAZ	LSXS26326S.ASTCNAZ
31	FLE165NAMA	TCA37971204	GM-M277SLRL.APZCNA0	LRSPS2706V.APZCNA0
32	FLE165NAMA	TCA37971204	GM-M277SLRL.APZCNA1	LRSPS2706V.APZCNA0
33	FLE165NAMA	TCA37971204	GM-Q277SLRL.APZCNA0	LRSES2706V.APZCNA0
34	FLE165NAMA	TCA37971204	GM-Q277SLRL.APZCNA1	LRSES2706V.APZCNA0
35	FLE165NAMA	TCA37971204	GM-X227NKT.M.ASBCNA4	LSXC22396D.ASBCNA0
36	FLE165NAMA	TCA37971204	GM-X227NSTM.ASTCNA4	LSXC22396S.ASTCNA0
37	FLE165NAMA	TCA37971204	GM-X227NSTM.ASTCNA5	LSXC22396S.ASTCNA0
38	FLE165NAMA	TCA37971204	GM-X267NSTM.ASTCNA5	LSXS26396S.ASTCNA0
39	FLE165NAMA	TCA37971204	GM-X267NSTM.ASTCNA6	LSXS26396S.ASTCNA0
40	FLE165NAMA	TCA36191407	GR-J248FSYM.ASTCNA0	SKSFD3613S.ASTCNA0
41	FLE165NAMA	TCA36191407	GR-J248MKYM.ASBCNA0	LRFD32406D.ASBCNA0
42	FLE165NAMA	TCA36191407	GR-J248MSYM.ASTCNA0	LRFD32406S.ASTCNA0
43	FLE165NAMA	TCA36191407	GR-J308MKRM.ASBCNA0	LRFDS3006D.ASBCNA0
44	FLE165NAMA	TCA36191407	GR-J308MKRM.ASBCNA1	LRFDS3006D.ASBCNA0

NO	Comp	Set Part No	Model Suffix	Sales Model Suffix
45	FLE165NAMA	TCA36191407	GR-J308MKYM.ASBCNA0	LRFDS3016D.ASBCNA0
46	FLE165NAMA	TCA36191407	GR-J308MMYM.AMTCNA0	LRFDS3016M.AMTCNA0
47	FLE165NAMA	TCA36191407	GR-J308MSRM.ASTCNA0	LRFDS3006S.ASTCNA0
48	FLE165NAMA	TCA36191407	GR-J308MSRM.ASTCNA1	LRFDS3006S.ASTCNA0
49	FLE165NAMA	TCA36191407	GR-J308MSYM.ASTCNA0	LRFDS3016S.ASTCNA0
50	FLE165NAMA	TCA36191407	GR-L248MKRM.ASBCNA0	LRFXC2406D.ASBCNA0
51	FLE165NAMA	TCA36191407	GR-L248MKRM.ASBCNA1	LRFXC2406D.ASBCNA0
52	FLE165NAMA	TCA36191407	GR-L248MKYM.ASBCNA0	LRFXC2416D.ASBCNA0
53	FLE165NAMA	TCA36191407	GR-L248MSRM.ASTCNA0	LRFXC2406S.ASTCNA0
54	FLE165NAMA	TCA36191407	GR-L248MSRM.ASTCNA1	LRFXC2406S.ASTCNA0
55	FLE165NAMA	TCA36191407	GR-L248MSYM.ASTCNA0	LRFXC2416S.ASTCNA0
56	FLE165NAMA	TCA36191407	GR-X248FSYM.ASTCNA0	SRFVC2406S.ASTCNA0
57	FLE165NAMA	TCA36191407	GR-X248MKYM.ASBCNA0	LRFVC2406D.ASBCNA0
58	FLE165NAMA	TCA36191407	GR-X248MKYM.ASBCNA1	LRFVC2406D.ASBCNA0
59	FLE165NAMA	TCA36191407	GR-X248MSYM.ASTCNA0	LRFVC2406S.ASTCNA0
60	FLE165NAMA	TCA36191407	GR-X248MSYM.ASTCNA1	LRFVC2406S.ASTCNA0
61	FLE165NAMA	TCA36191407	GR-X308MKYM.ASBCNA0	LRFVS3006D.ASBCNA0
62	FLE165NAMA	TCA36191407	GR-X308MKYM.ASBCNA1	LRFVS3006D.ASBCNA0
63	FLE165NAMA	TCA36191407	GR-X308MSYM.ASTCNA0	LRFVS3006S.ASTCNA0
64	FLE165NAMA	TCA36191407	GR-X308MSYM.ASTCNA1	LRFVS3006S.ASTCNA0
65	FLE165NAMA	TCA36191406	GR-J23GMKYM.ASBCNA0	LRMDC2306D.ASBCNA0
66	FLE165NAMA	TCA36191406	GR-J23GMSYM.ASTCNA0	LRMDC2306S.ASTCNA0
67	FLE165NAMA	TCA36191406	GR-J30GMKYM.ASBCNA0	LRMDS3006D.ASBCNA0
68	FLE165NAMA	TCA36191406	GR-J30GMSYM.ASTCNA0	LRMDS3006S.ASTCNA0