

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 : ~102**

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>

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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

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://gsfsPLUS-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.

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

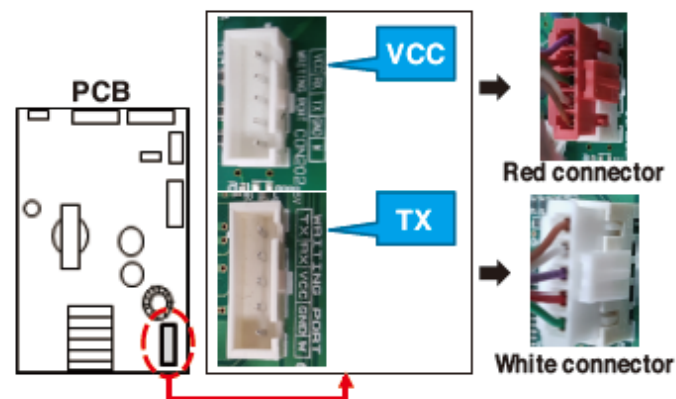


2-1. Software Upgrade by JIG (Compressor Socket)

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.

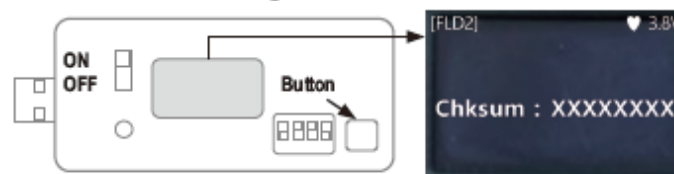
❖ If you don't see a mark (Vcc,Tx), please refer to the service technical information.

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.

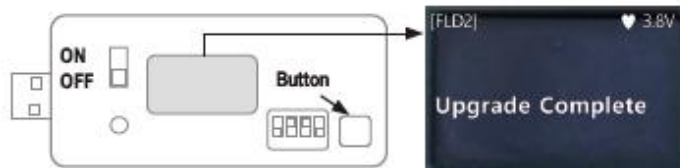
Then the buzzer rings twice.



1. Repair Instruction (Back)

Quick SW Update Guide (Back)

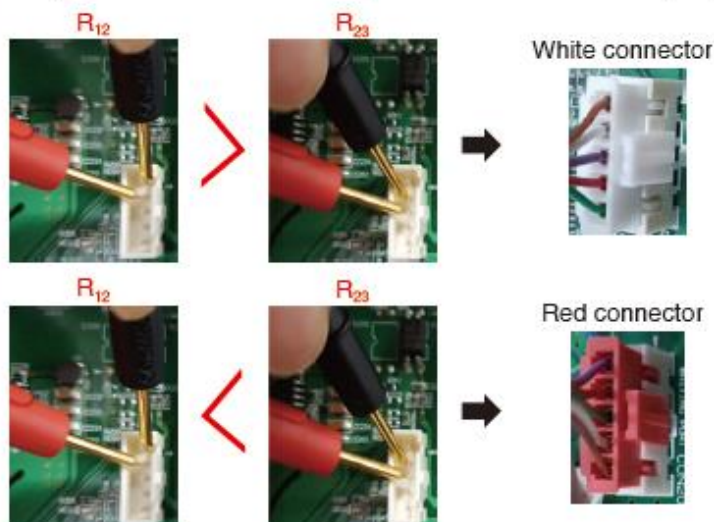
6) When the "Upgrade complete" screen appears, turn off the jig and remove harness



※ 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 FL016SR type of compressor. If you attempt to replace PCB, please update S/W.

If 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 ☎800-8474597 / Call To STAC(Sears)

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



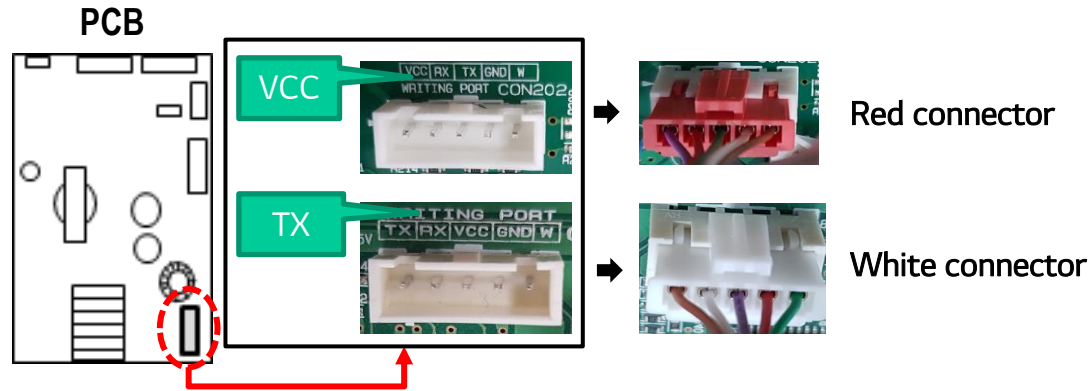
Unplug the refrigerator power cord
If the power cord is not unplugged, the Jig and PCB will be damaged

1. Auto mode setting



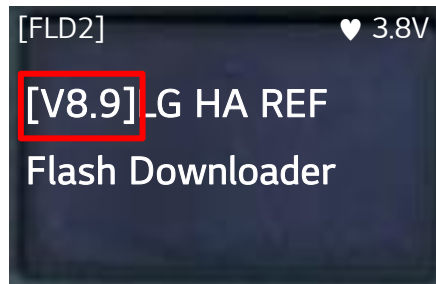
2. Jig harness to PCB connector

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.



3. Power on

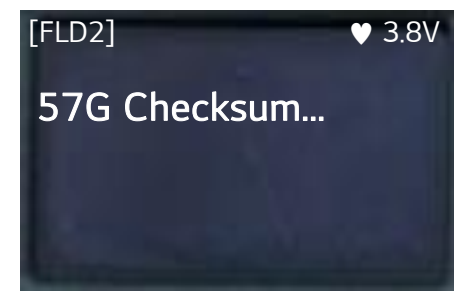
Check the firmware version and update



4. Press button



5. Check in progress



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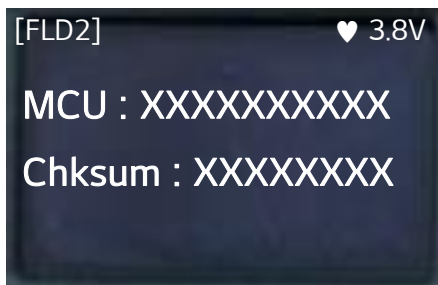
1. Repair Instruction [Guide - Comp S/W writing]



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

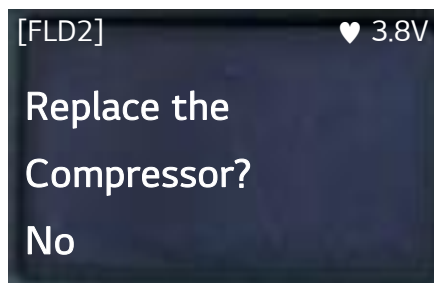
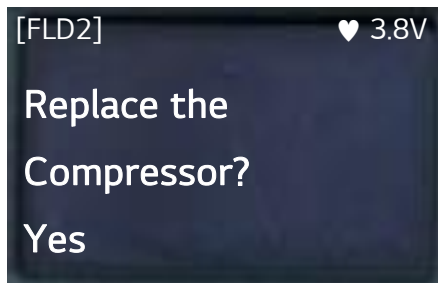
6. Wait until the MCU and Checksum are displayed. 7. Press button

Check the checksum "as is" in the following table.



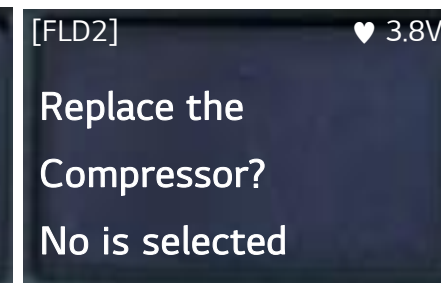
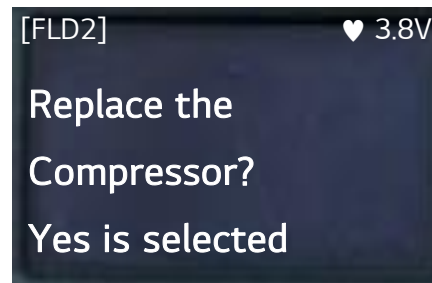
8. Screen to select whether to replace the compressor

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



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



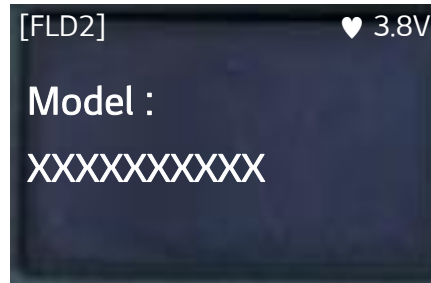
WARNING

**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

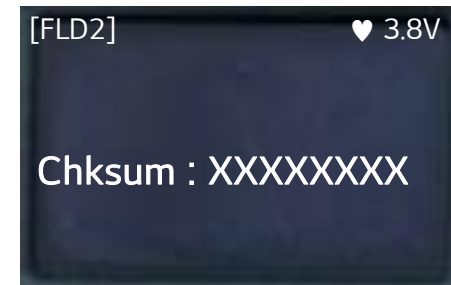
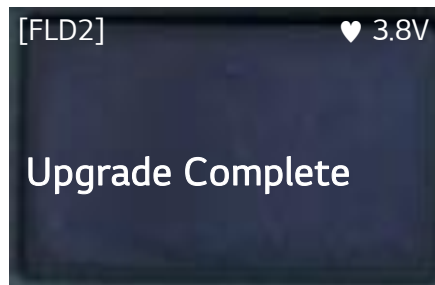


12. Press button



13. Upgrade success screen

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



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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)

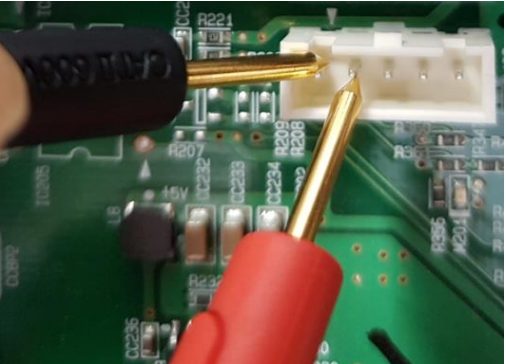
No	Check sum			
	As is		To be	
	Compressor	Check Sum	Compressor	Check Sum
1	FC75LBNA	0x00E3AF46	FLS075LANA	0x00DB0E3C
		0x00E3BA9A		
2	FLB075LANA	0x00F64129	FLS075LANA	0x00F42236
		0x00F58DC5		
		0x00F5B5E6		
		0x00F53592		
3	FLB075LANA	0x00DCC82D	FLS075LANA	0x00DB0F18
		0x00DC25B8		
		0x00D83BD8		
4	FLB075LBNA	0x00F5B4EC	FLS075LANA	0x00F42236
		0x00F5B024		
		0x00F56E25		
		0x00F570D2		
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		

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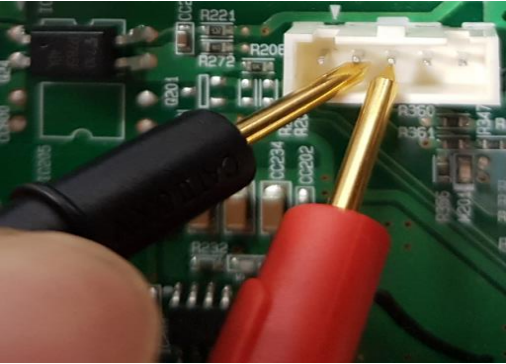
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<To check for connector wiring if there is no mark on the socket>

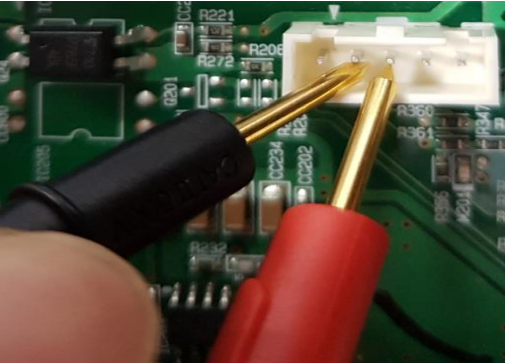
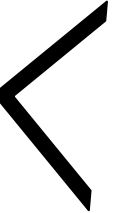
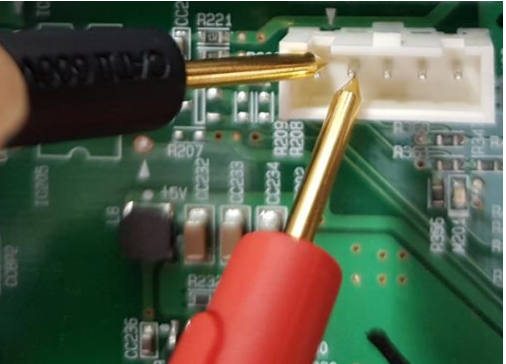
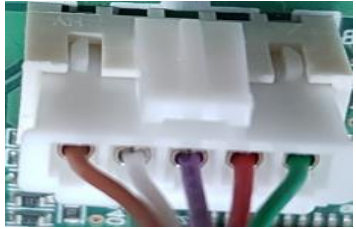
1) Measure the resistance of pins 1 and 2 of the socket. (R_{12})



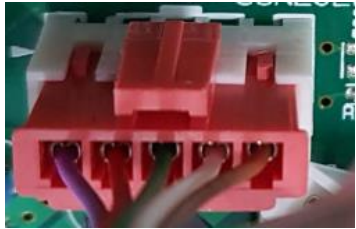
2) Measure the resistance of pins 2 and 3 of the socket. (R_{23})



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



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



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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	LMWVC23626S.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	LRFDC2406D.ASBCNA0
42	FLE165NAMA	TCA36191407	GR-J248MSYM.ASTCNA0	LRFDC2406S.ASTCNA0
43	FLE165NAMA	TCA36191407	GR-J308MKRM.ASBCNA0	LRFDS3006D.ASBCNA0
44	FLE165NAMA	TCA36191407	GR-J308MKRM.ASBCNA1	LRFDS3006D.ASBCNA0

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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