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Dishwasher Service Handbook

Service Handbook LDF6920 + V1 090603 Service Handbook LDF6920 + V5 100525

Model : 24" Built In Dishwasher

Customer Model	Factory Model	Suffix

 Test mode (Check electric parts operation) 1. Test mode method 2. Electric parts function test 		
2. Error mode (Connecting to Test mode) 1. IE 2. OE 3. E1 4. FE 5. HE 6. tE 7. LE 8 PF (Not error message)	7 10 11 12 13 14	
 3. Trouble shooting guide 1. No power 2. Not running (washing motor) 3. Poor wash White spot, white powder, cloudy glasses Soil spot, really not washing/clean 4. Poor dry 5. Noise 6. Leakage 	17 21 25 28	
4. Exploded view & location number	35	
 Appendix. SVC Bulletin Installation (Base) Drain hose with siphon protector Hinge rope & spring about door drop Vent modified for protecting moisture condensing HE error. 6) Air Sucking noise cause by program 4 7) Install improvement for worm gear leg. 8) Poor Washing cause by the defectivc filter asm 	46 51 52 56 ∠ 59 63	
Service Handbook LDF6920 + V1 090603		Vrit G

Written by Jhe Hyouk Lee LG Dishwasher June 4, 2009



Customer Model Factory Model LDF6920XX D1608 Suffix

1. Test Mode

- ※ Please perform the LOAD TEST using TEST MODE to find a cause of problem first.
- 1. UNIT must be in standby (Power supplied display off)
- Press POWER while pressing Upper Only and Delay Start button simultaneously.
- 3. Press Delay Start button to advance through diagnostics.

BUTTON	DUTTON HUMDER OF Dieplay		Load and Checking points		Door open/	Remark
Derreit	pushing button	tton Loa		L E D lighting	closed	
Upper Only + Delay Start +PowerButton	1 TIME	Program Version		All LEDs are lighting	Either	
	1 TIME	Soil Level	Soil Sensor		Either	See Test 1
	2 TIME	32	Wash Motor		Closed	See Test 2
	3 TIME	33	Drain Pump		Either	See Test 3
	4 TIME	Frequency	Inlet Valve	Air guide	Closed	See Test 4
	5 TIME	35	Dispenser		Closed	See Test 5
	6 TIME	36	Heater (for 10 sec)		Closed	See Test 6
	7 TIME	37	Fan		Closed	See Test 7
Delay Start	8 TIME	38		Child Lock + Rinse Aid		
	9 TIME	Temp.()	Thermistor	Sanitart-Extra	Either	See Test 8
	10 TIME	3A	Lower Nozzle (Vario valve)	Power Scrub + Normal +Delicate	Closed	See Test 8
	11 TIME	3b	Upper Nozzle (Vario valve)	Rinse Only + Upper Only	Closed	
	12 TIME	3c	Wash-Drain-Water Supply	Rinse Aid	Closed	
	13 TIME		Auto-Off		Closed	

How to check the water level during a cycle. Press the Power Scrub and Delay Start buttons simultaneously. The normal water level reading is about 270~290.

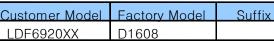
How to check the water temperature in the tub during a cycle

Press the **Power Scrub** and **Rinse** buttons simultaneously. The display will show the temperature in degrees Celsius. If the heater is on, the displayed temperature should rise.

Page 2



Page 3



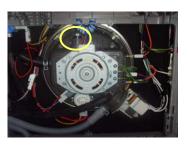
1. Test Mode

Test 1. Soil Sensor



Soil level is displayed in 3 seconds. If the figure is "0", check the wiring connections. Sensor can only be tested by PCB in diagnostic test mode.

If we disconnect the wire plug, Only Auto1(Strong) program is running





Test 2. Motor Test

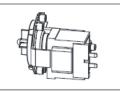


CAUTION Do not run the MAIN MOTOR for more than 10 seconds without water in the sump as motor water seal damage could result.

- If the motor does not run,
- Check the door is tightly closed.
- Check door switch operation.
- Check wiring connections or PCB.
 Check that chopper blade is not
- locked by a foreign objects. • Check wash motor.
- If you hear grinding noise,
- Check Blade.
 Refer to the SUMP Assemble &
- Disassemble and SUMP EXPLODE VIEW to check chopper blade. (See page 3~4)
- · If you find the debris, remove it.

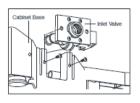
Washing motor problem

Test 3. Drain Pump Test



- If the pump does not run,
- · Check wiring connections or PCB.
- Check for 120 VAC to pump.
- Disconnect wires and check pump motor resistance (20~40 Q)
- If the problem is noise, remove the drain pump and check for blockage or foreign objects.

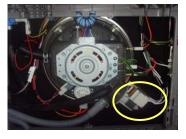
Test 4. Inlet Valve Test (Water Supply Test)



- Check water faucet is open and that there is water to the valve.
- Check for 120 VAC to the valve.
- Disconnect the wires and check the valve resistance (950~1300 g).
- During fill in the test mode, the digits in the display should increase.
 Water should shut off at about 285.
- If the water flow is normal but display does not change, check the wiring and connectors to the hall sensor.
- · Disconnect the wires and check the hall sensor.















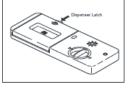




Customer Model Factory Model LDF6920XX D1608

1. Test Mode

Test 5. Dispenser Test



The lid of the dispenser must be closed for this test.

Enter the ACTIVATING THE

DIAGNOSTIC TEST MODE(see page 1 of the Tech Sheet(2/2)) and advance to step 5 (35 in display). Wait at least 1 minute and check that the door has opened. If the door fails to open. check wiring and connectors to the dispenser.

Test 6. Heater Test (temp. check)

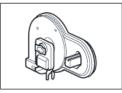


- · The heater is activated in test mode for 10 seconds only.
- Check wiring and connections.
- · Check for 120 VAC to heater. Disconnect wires and check heater
- resistance (10.8~13.2 Q). • For 10 seconds check the power

or current by using probe (8A ~ 10A)

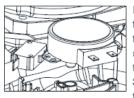
- remove junction cover
- contact the probes to Black, White harness wire.

Test 7. Fan and Wax Motor Test



- · Check that the fan motor rotates freely.(Soft noise & vibration)
- · Check wiring and connections.
- Check for 120 VAC to motor.
- · Disconnect wires and check fan motor resistance (108.3~119.7 g at T=20°C).

Test 8. Vario Valve Motor Test

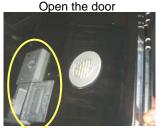


If the vario valve has not advanced to the indicated position in the test mode, the control will beep twice. The valve should change within 10 seconds. If the display cannot be advanced from 3A, 3b or 3C after about 10 seconds, the valve is not switching.

ever is

pressed.

- · Disassemble sump and check the Vario Valve for obstructions. Refer to the SUMP Assemble & Disassemble and SUMP EXPLODE VIEW(See page 3~4)
- Check Check the resistance of vario motor Discor .Check the loose fitting of micro s/w " Check .Heavy soil remain around the valve presse

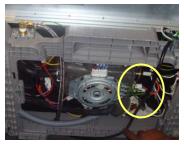


Suffix

Remove the door



Bottom area



In the sump



Remove the door

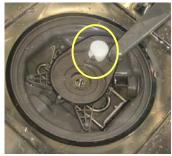


Opposite side



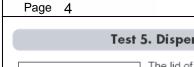


In the sump











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Page

2. Error Mode

Customer Model

Factory Model

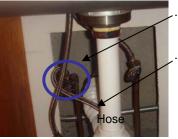
Suffix

ERROR MESSAGE	POSSIBLE CAUSE FOR ERROR OCCURRENCE	REMEDY
INLET ERROR	 The Water Supply Tap is closed. 	 Take action on Water Supply device.
BE	The Water Supply is shut off. The Inlet Hose is kinked.	Supply device.
displayed	The Water Pressure is very	• Measure the electric
Condition	low. (below 10 psi)	resistance of Inlet Valve.
Not reached to the normal water level in spite of 10 min. water supply	 Inlet Valve is OK? The filter of Inlet Valve is clogged by impure water. 	 (950-1300 Q) Clean the filter of Inlet Valve. Check the frequency of Inlet
	 The Hall sensor is OK? The Impeller of Air Guide is bound. 	Water by the Test Mode. • Replace the Air Braker.

Micros switch loose connection (next page)

Check the water supply system (Parts , sensor , environment) by TEST MODE – 4 (Page 1), Test 4 (Page2) → If there is water flow in & can see the frequency raise : No problem

- → No water flow in or no frequency raise
 - 1) Water supply tap is closed or no water supply CIC



Check the water tap is closed
→ Open
Check that water supply is ok in this water tap (Remove water hose, open the water tap a little bit and check the water supply) If not
→ Change water supply source

✓ 2) Water supply shut off CIC

.Check the status of other water tap (Water supply is ok or not)

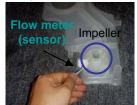
3) Water supply hose kinked → Make not kinked





- : Problem in water supply system or environment
- 4) If water supply is ok (open the door, we can check) but no frequency raise.
- Water supply pressure is very low (below 0.3 bar)

Air guide



The water pressure is too low to rotate a impeller for checking Water flow

- → Open the water tap fully
- Change the water supply source which is high water pressure
- Air guide problem
- . Impeller is stuck so not rotate -> Change Air guide
- (Disassemble the air guide & blow, can check rotation)
- . Flow meter (sensor) can not check the impeller rotation
- → Change Air guide or Flow meter

5) Inlet valve problem (No water supply, No frequency)

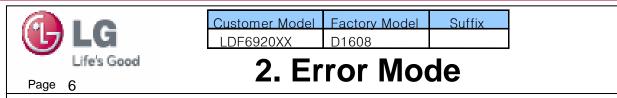
-Loose connection of electric harness wire → Reconnecting

 Inlet valve filter clogged
 → Remove filter and clean the filter & valve assemble the filter



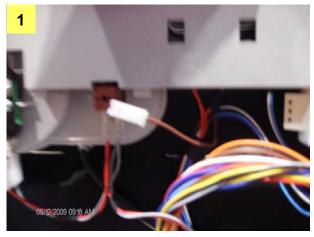
Bad inlet valve
 → Check the resistance
 (short or cut = 0 or infinite)
 & replacement





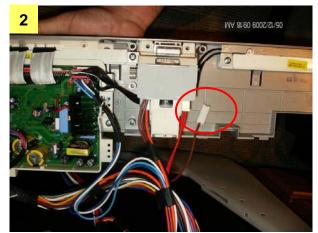
6) Micros switch loose connection

What was seen when the panel was removed This is a better view of the disconnected wire



The unit is now responding to SC test normally





The connector was reinserted back into place



Description LG Life's Good	Customer Model Factory Model LDF6810XX D1608 2. Error Model	Suffix
DRAIN ERROR displayed Condition Not fully drained out in spite of 5 min. drain operation	 The Drain Hose kinked or blocked. Wiring connection is OK? The drain outlet of sump is blocked. The Drain Pump/Motor or circuit is troubled. Garbage disposal plug block the drain flow (Installation) too long extension hose (6ft) Float hinge stuck (Wrong sensing) can happen in Serial no : 501 ~ 706 Drain pressure drop from the gap in 	 Remove the cause of kink or block. Check the wiring connection. Measure the electric resistance of Drain Motor. (20-40 Q) Replace the Drain Motor or repair the Circuit. Make a hole at connection area of disposal ~ drain hose Shorten extension hose less than 6ft Replace the float assembly or cut 1mm at float guide
	drain cover ,can happen serial no : 612~711 Parts , sensor , environment) by TES	 Change sump assembly Product (S/NO: 901~)

→ If there is water drain & can hear the drain pump operation : No problem → Water remain in the tub or can't hear the drain pump operation : Problem

1) Water remain in the Tub after installation [Installation]

.Can hear the drain pump operation, but not drain

→ Check the garbage disposal ~ drain hose connecting by finger or drive (+ or -)



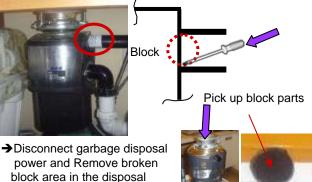
Connecting pipe to dishwasher Drain hose

Connecting pipe to house main Drain pipe

Sell the disposal dishwasher Drain hose connecting pipe Blocking for protecting Leakage (for Non dishwasher Customer)

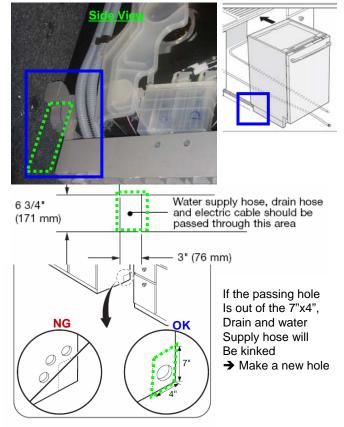
→If the connecting area was block, make a hole for drain by using - drive & small hammer - circle direction





power and Remove broken block area in the disposal & power reconnect the disposal

2) Drain hose kinked by bad installation [Installation]



An opening (on either side) is required to route plumbing and electrical connections.



Page 8

2. Error Mode

Factory Model

Customer Model

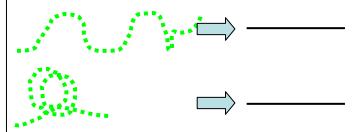
3) Too long extension hose (over 6ft, installation)

.If the length of extension hose is longer than 6ft, Can not drain water properly

→ Make the length of extension hose shorter than 6ft Sink pipe



Dishwasher



4) Drain pump problem (If not 1), 2), 3) check the drain pump)

-Disconnect drain hose form sink pipe or garbage disposal or Air-gap & release the drain hose to big pots , Prepare towel for protect floor wet from drain hose

Disconnect



Air gap



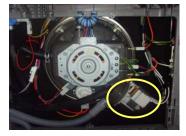
Release drain hose



➤ Big Pot or bowl

- Run the drain pump by test mode 3 ,or run the any course & Check the water drain (If there is no operation noise or not drain)
 - ➔ Replace the drain pump, be careful the assemble direction and 3 points of fastening 3 screws

[Reference Assembly of drain pump ----- Page ----]



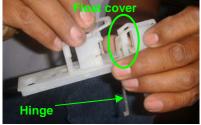
Suffix

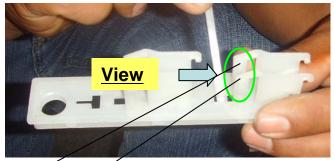


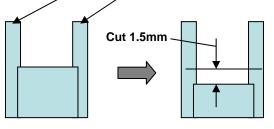
5) Float hinge stuck [S/no : 501 ~ 706, especially 704~706] Symptom : There is no water in the Tub (Drain ok) But OE happen sometimes (Sensing error of water drain)
→ Replace the Float assembly (float cover) or cut 1.5 mm at hinge guide area in float cover , but we should pull dishwasher from sink cabinet.

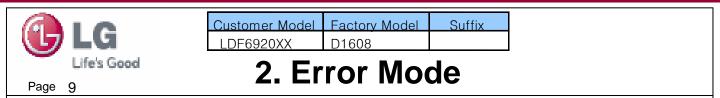
Left side











6) Drain pressure drop from the gap in drain cover ,can happen serial no : 612~711

. Drain pump operation (No problem)

- . We can see some water is drain to drain hose, sometimes Not OE error but too much water remain
- . But after drain process, there is too much water remain in the sump assembly (800cc ~ 1000 cc)



Water remain near by sump filter hole



→ Replace sump assembly (S/no: 901~, production date is from 2009.1 ~)





If the Gap between drain pump case ~ drain cover Is too much, drain pressure would be drop down. So not drain, too much water remain in sump

→ New (No gap : S/no 901~)

	mer Model Factory Model 6920XX D1608	Suffix
Life's Good Page 10	2. Error Mod	
LEAKAGE ERROR EROR displayed Condition The excessive RPM of Washing Motor happened during Wash cycle due to water leakage.	Water leakage in Hose connections. Water is leaked by damages. The Motor Water Seal leakage of Sump assembly. The height of Drain Hose connection (sink-Drain Hose) is not over 20 ". Impeller of the Washing Pump is worn away.	 Replace the connections of Hose. Check the point of damages and repair or replace the related parts. Read the Installation Instructions and fix it to the recommended Height. Replace the Impeller of the Washing Pump.

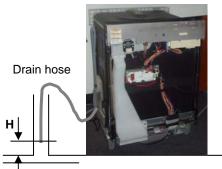
E1 means that there is not enough or very little water in the tub (dishwasher) → Generally a lot of leakage or water drain out by siphon effect can display E1

1) Water automatic drain out by siphon effect [Installation]

→Check the drain hose, If the end of drain hose location was below than 10"(250mm) or deep into the water pipe, the water can be drain out automatically and make air sucking noise [S/no 901~, we improved this issue by applying siphon protect, but not perfect]



Lie drain hose on the floor → Hose position is below than 10"(250mm)

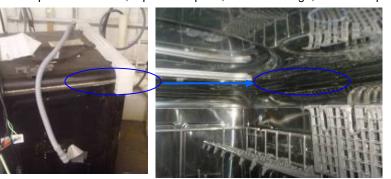


Water pipe

Change the end of drain hose position Over 10" (250mm) and fixing

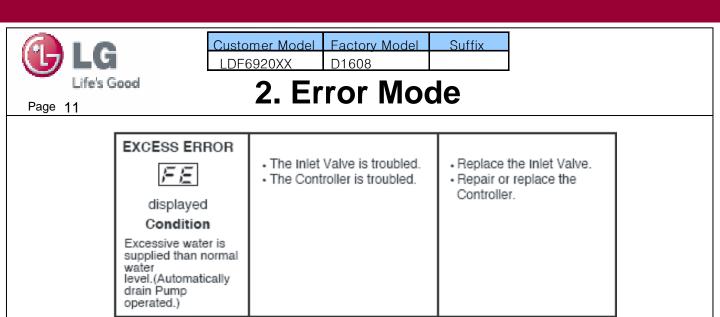
2) Logistic damage (Inner area broken or leakage)

→Check the damage or leaking in Tub or Bottom sump area.
→Check sump after set: If the parts are broken, replace the parts, but tub damage, we can't repair : Reconnecting hose



→Check sump after service, miss hose connecting air : Reconnecting hose





FE means that water supply can't stop so there is excessive water in the tub If the over flow float s/w is on and off 10 times, display FE error

→Generally inlet valve and dirty water supply (tiny particle or steel powder) problem So ask the customer lock the water tap connecting to D/W, and dispatch service

1) Water condition

Check that there is much steel stain powder or other dirty material in water pipe especially new house or after remodeling This tiny material can block a small hole in inlet valve, if then even though no power supply to inlet valve, the water supply is going on infinite until locking water tap.

→ Disassemble water supply connection between water supply hose & water tap

Open the water tap fully, and hold on for 1 minute or until you can see clean water, and assemble again. → Disassemble water supply hose with inlet valve

- Open the water tap fully, and hold on for 1 minute or until you can see clean water, and assemble again
- → Next : Clean or replace inlet valve [Next step]



2) Clean or replace inlet valve (Recommend replace inlet valve)



Remove filter in inlet valve

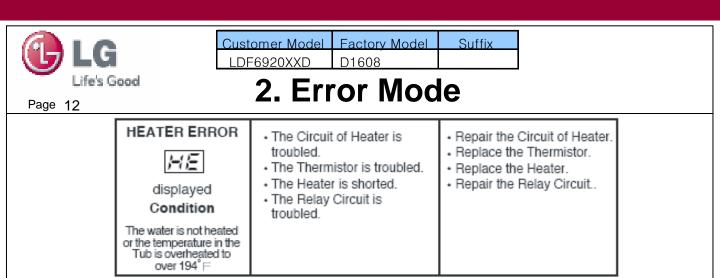


Wash inlet valve

OR



Replace inlet valve



HE can be displayed if the circuit of heater has problems (short or cut off) →Not heating [S/no 812~ , HE error can be displayed]

→Before s/no 812, Even though heater has some problem, the main board can not display HE error, so you can check the heater status by checking power supply at test mode [6] for 10 seconds or measure the heater resistance directly.

1) Customer Environment

If the temperature of water supply is very hot (higher than $140F(60^{\circ})$) or rated voltage is low Depending on surrounding condition,

dishwasher will display HE error code intermittently

and stop without drain, even though there is no defect in heater assembly. *Replace the PCB Main board without exception (Refer to the Service Bulletin)*

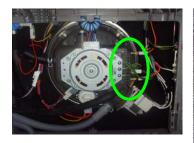
2) Heater problem

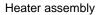
Check power supply at test mode[6] for 10 seconds or heater resistance If the Heater is open, HE error will occur every cycle.

→ Replace the heater assembly or Sump assembly



Pull D/W from sink cabinet and Replace the heater assembly









Heater assemble area In Sump assembly

	tomer ModelFactory ModelF6920XXD1608 2. Error Model	Suffix
THERMAL ERROR EREOR displayed Condition The resistance of the mistor not normally of put.		 Check the temperature. (Test Mode) If the temperature is displayed, adjust the Inlet Water Temperature to 120°F. If the temperature is not displayed, check the wiring connection. check the electric resistance of Thermistor. (11~14k \u03c6 at 77°F) Replace the PCB.

tE means that Main board doesn't check the resistor of thermistor in heater assembly

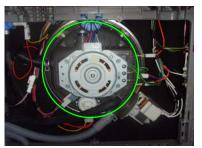


★ if only thermistor has problem, change heater assembly. not replace only thermistor

Page 14	Customer ModelFactorLDF6920XXD1608 2. Error	8	
MOTOR ERROR displayed Condition The Motor is working abnormally.	 Wiring connection is OK? The Impeller of Washing Pump is locked. The rotor of Washing Motor is locked. The Blade is locked. 	 Check the wiring connection. Replace the cause of restriction. Replace the Washing Motor. Replace the PCB. 	* CAUTION Do not run the MAIN MOTOR for more than 10 seconds without

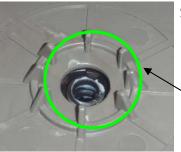
1) In test mode , washing motor doesn't rotate

Change washing motor









After remove bad washing motor , You must check the water seal condition. If it's not good! Change sump assembly

water in the sump as

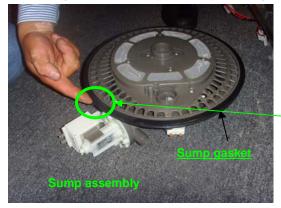
damage could result.

motor water seal

! You must see the white grease is in Water seal

2) In test mode , washing motor doesn't rotate

→ Change sump assembly [Not only Washing motor but also Water seal have problems]



! Must use new sump gasket for perfect sealing Don't use the gasket in old sump assembly, when you change sump assembly

! Must add some lubricant liquid to out area of sump gasket for better replacement (hand wash liquid detergent or ...)



Customer Model	Factory Model	Suffix	
LDF6920XX	D1608		
2. Error Mode			

- PF : This message is not a error message, Just display the reason of stop washing is because of not dishwasher but sudden power failure
 - (There was power supply stop in the dishwasher)
 - ➔ Open and close the door or Power off and run D/W again.



D1608

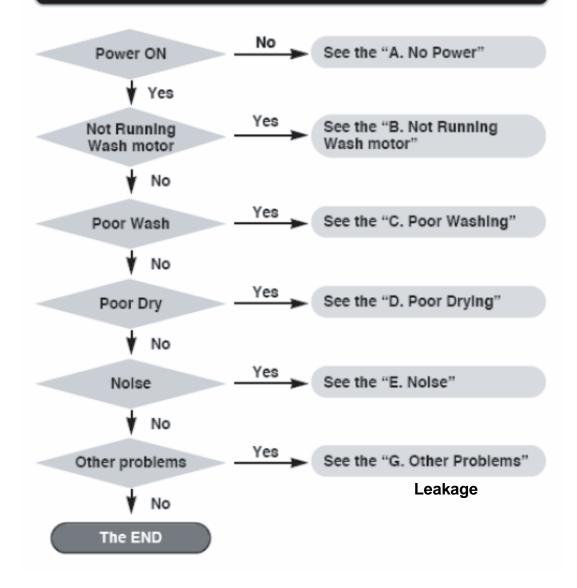
Factory Model

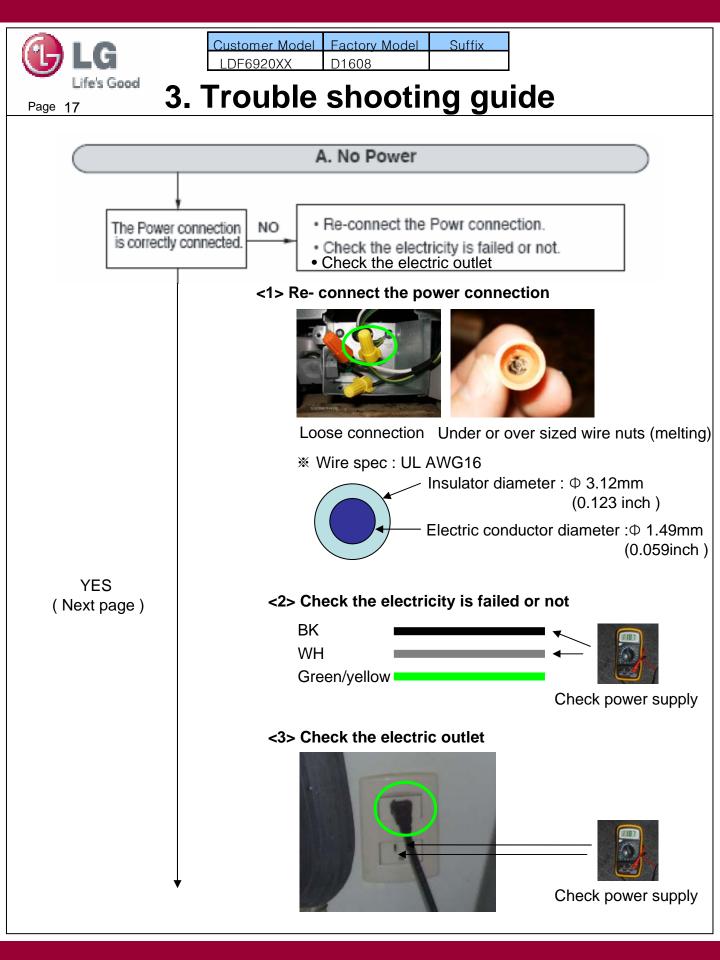
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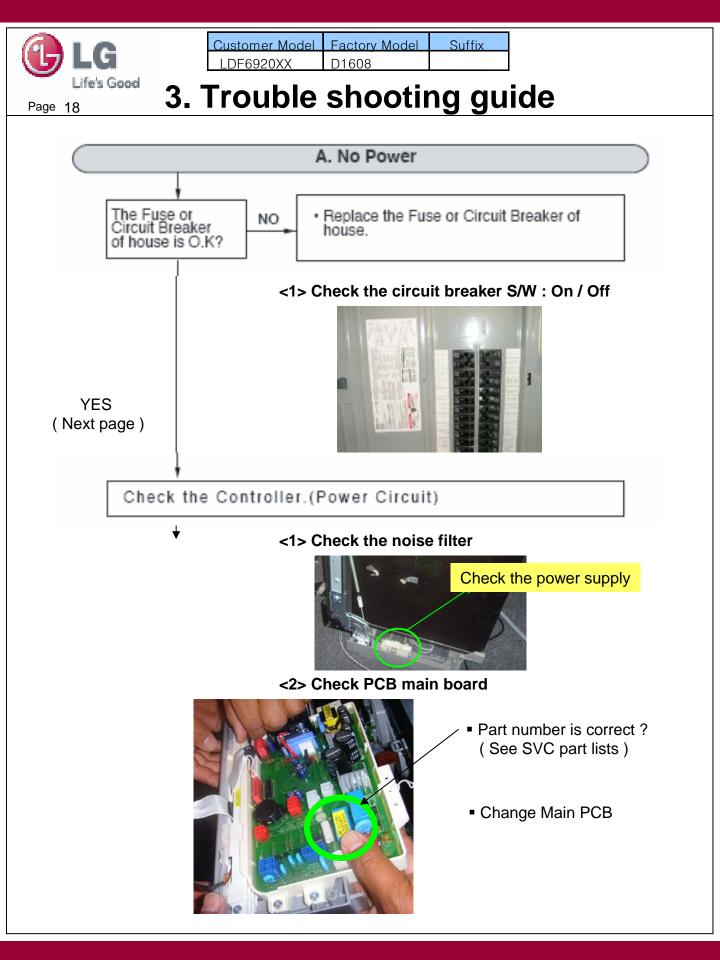
Customer Model

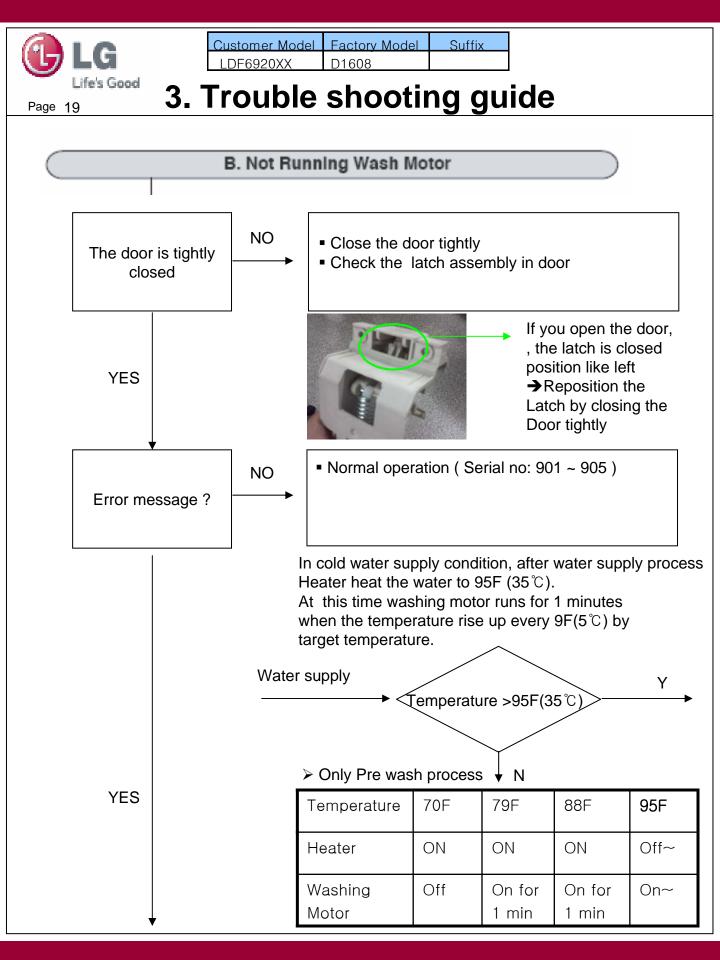
LDF6920XX

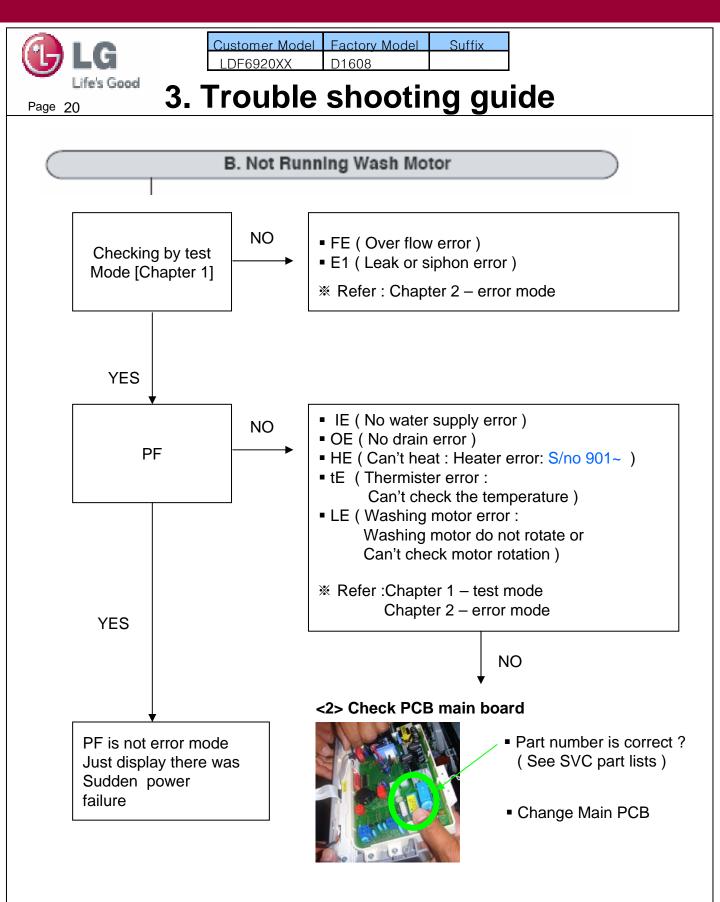
DISHWASHER TROUBLE SHOOTING MAP

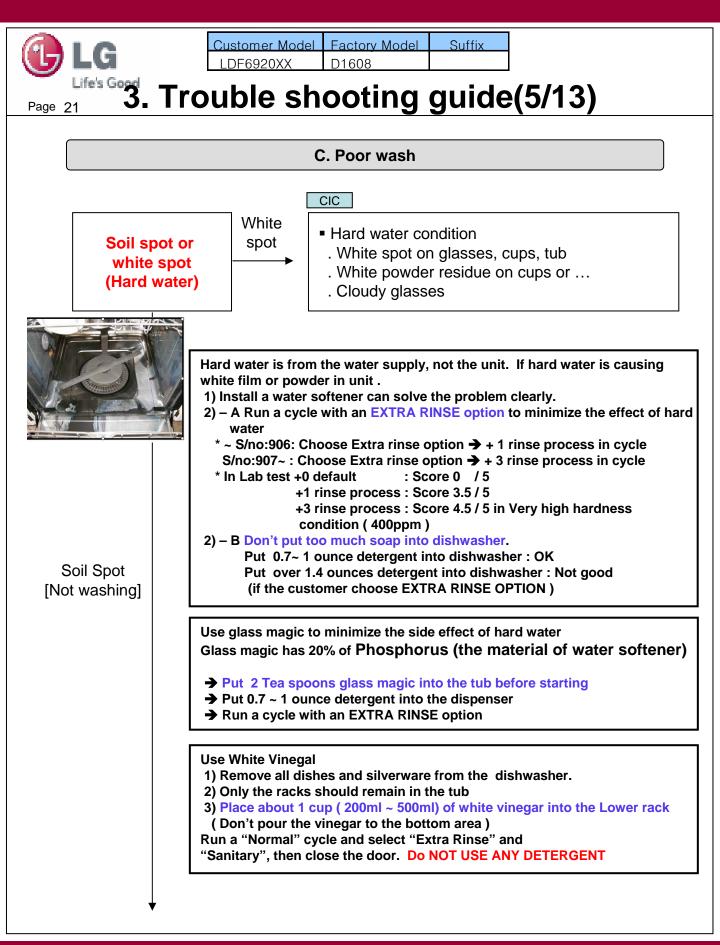










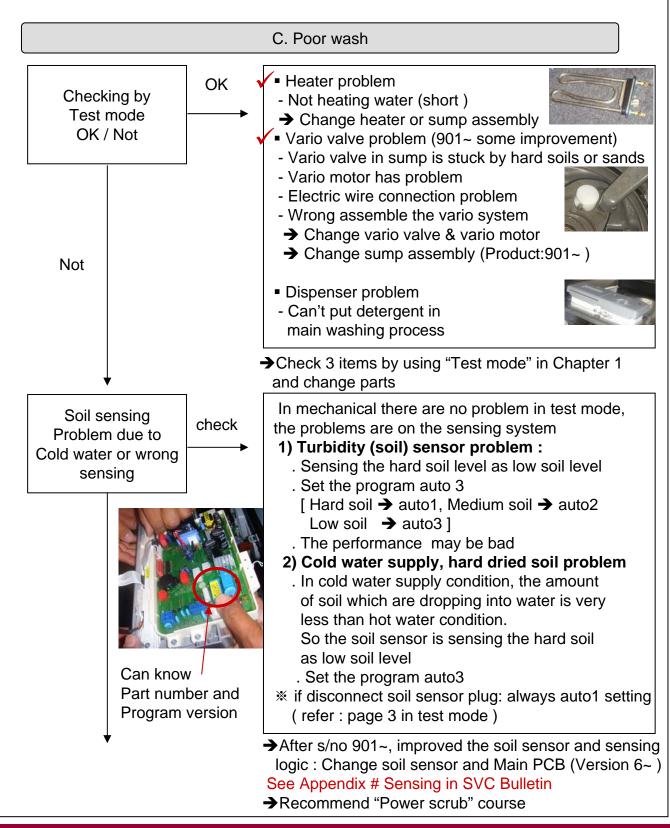




D1608

Customer Model I DF6920XX Factory Model

Suffix





D1608

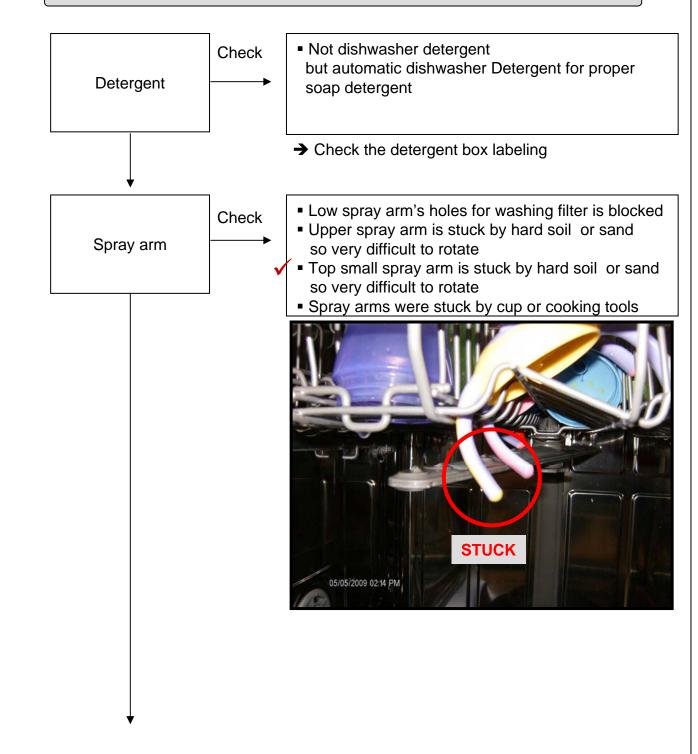
Factory Model

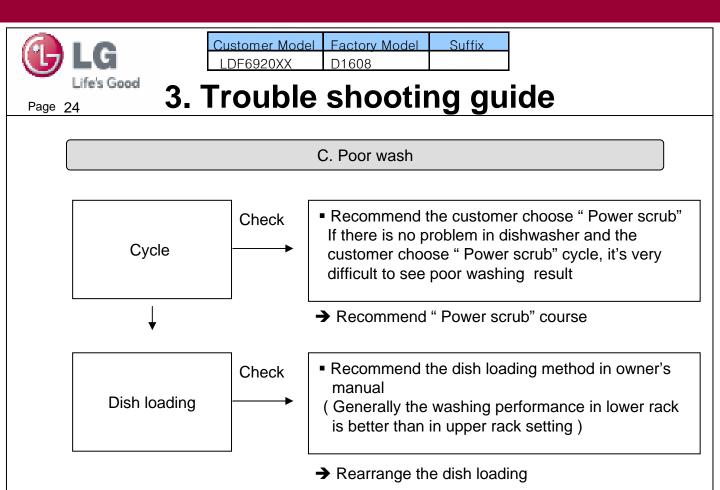
Suffix

Customer Model

LDF6920XX

C. Poor wash





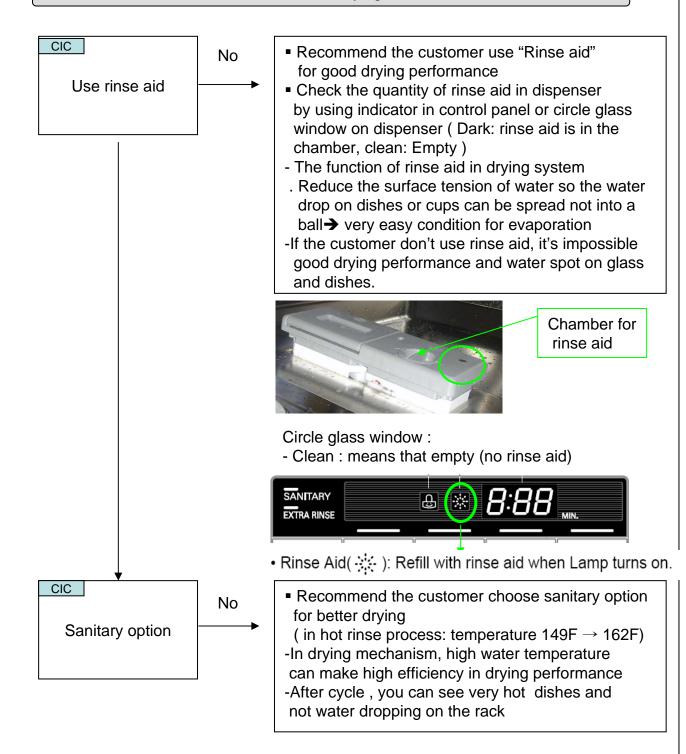


D1608

Customer Model I DF6920XX Factory Model

Suffix

D. Poor drying



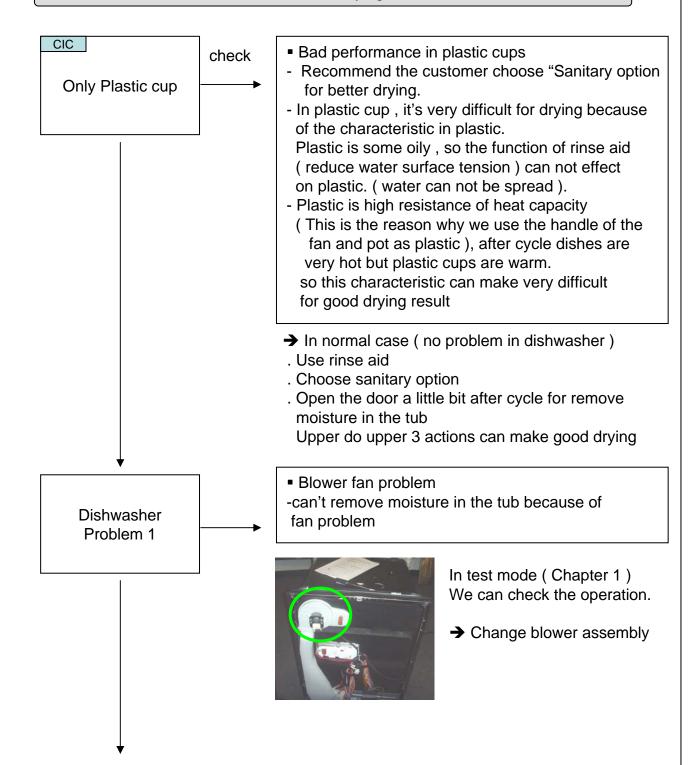


D1608

Customer Model I DF6920XX Factory Model

Suffix

D. Poor drying





D1608

Factory Model

Customer Model

LDF6920XX

D. Poor drying

Dishwasher Problem 2 Heater problem

- can't heat the water to high temperature

Suffix

Not heating water (short) from serial number 901 ~, the unit display the HE error message, if there is heater problem. but before s/no 901 (s/no: ~ 812), there was no function of displaying HE error message
→S/no (~812) we can check the heater by using test mode in Chapter 1

→Check the heater status (short or ..) by test mode in chapter 1 and change the heater or sump assembly





D1608

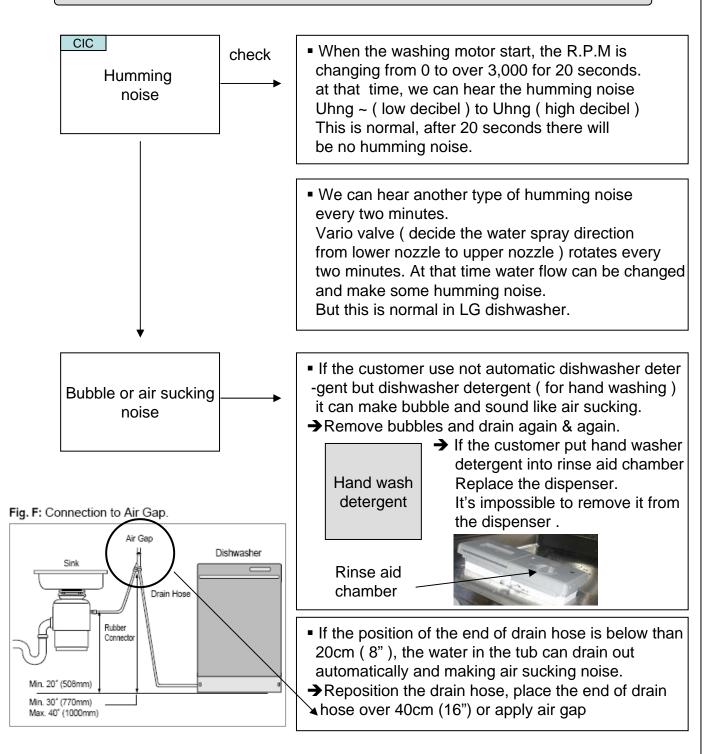
Factory Model

Suffix

Customer Model

I DF6920XX







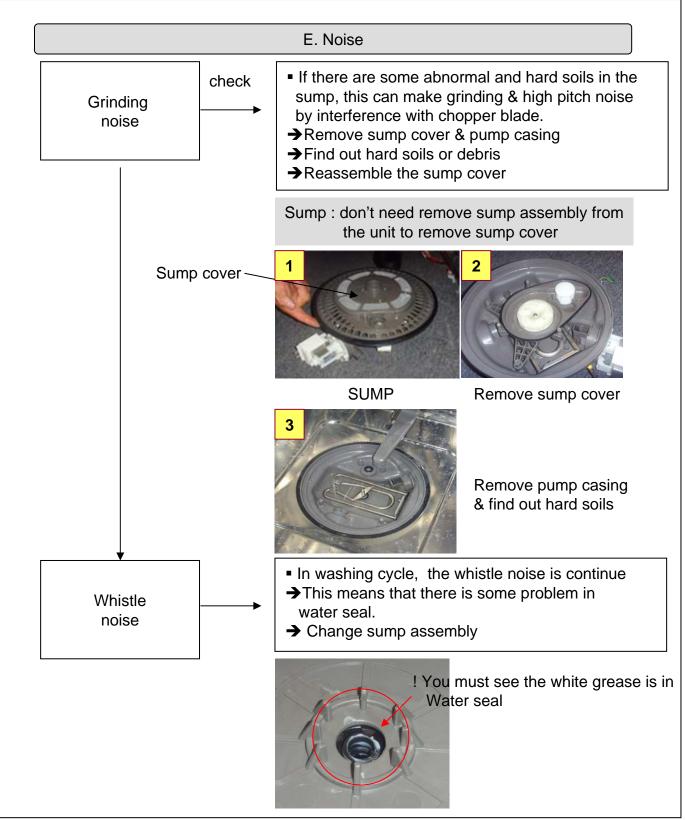
D1608

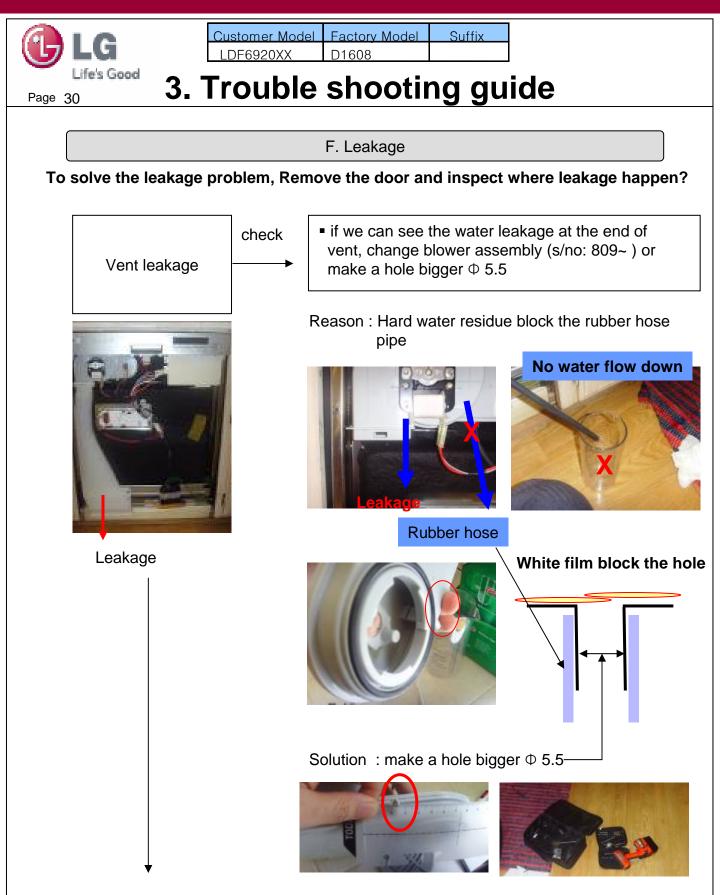
Factory Model

Suffix

Customer Model

LDF6920XX





% S/no: 803 ~ 808, the hole size was $\Phi4mm$, S/no 809 ~ size has been Φ 5mm



D1608

Customer Model

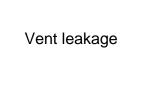
LDF6920XX

check

Factory Model

F. Leakage

To solve the leakage problem, Remove the door and inspect where leakage happen?



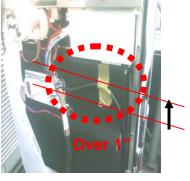
 if we can see the water leakage at the end of vent, check the rubber hose position and reposition the rubber hose.

Suffix

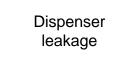


Reason : If the rubber hose position is like below & Right, this can make a leakage





Leakage





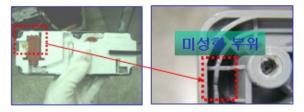
ΟK

NG

Solution : Reposition the rubber hose from right to like left picture

if we can see the water leakage between dispenser
 & door liner, Replace the dispenser

Reason : Bad shape in sealing area



Solution : Replace the dispenser



D1608

<u>Customer Model</u> LDF6920XX Factory Model

F. Leakage

To solve the leakage problem, Remove the door and inspect where leakage happen?

Door leakage



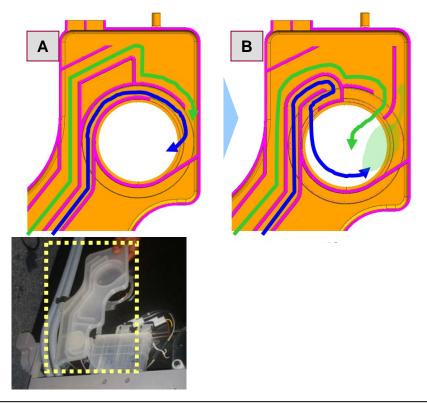
 If a lot of water leakage below the door not vent, especially hot water condition, Change air guide assembly to protect leakage revival

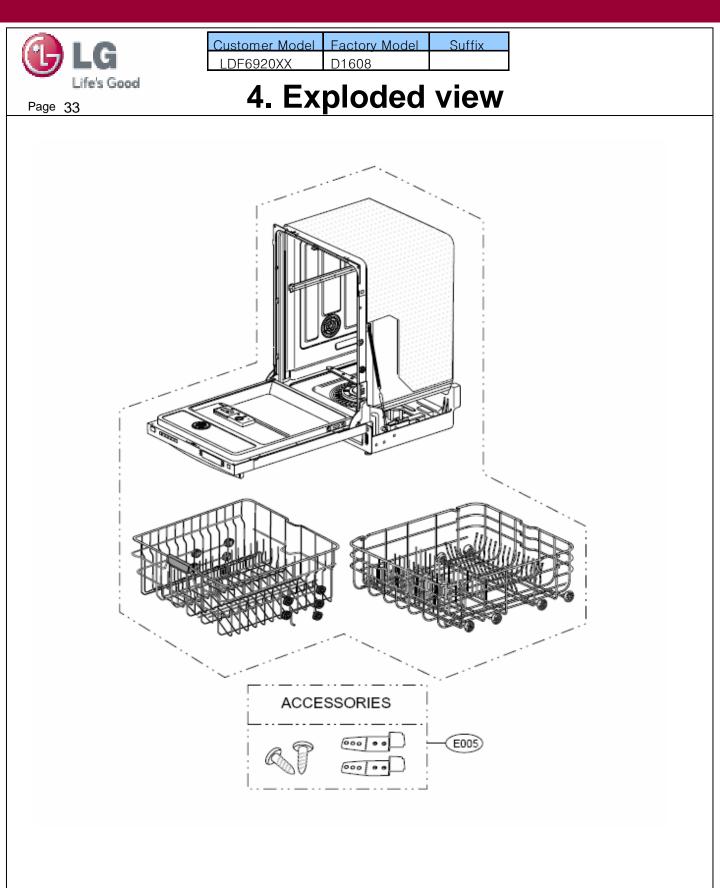
Suffix

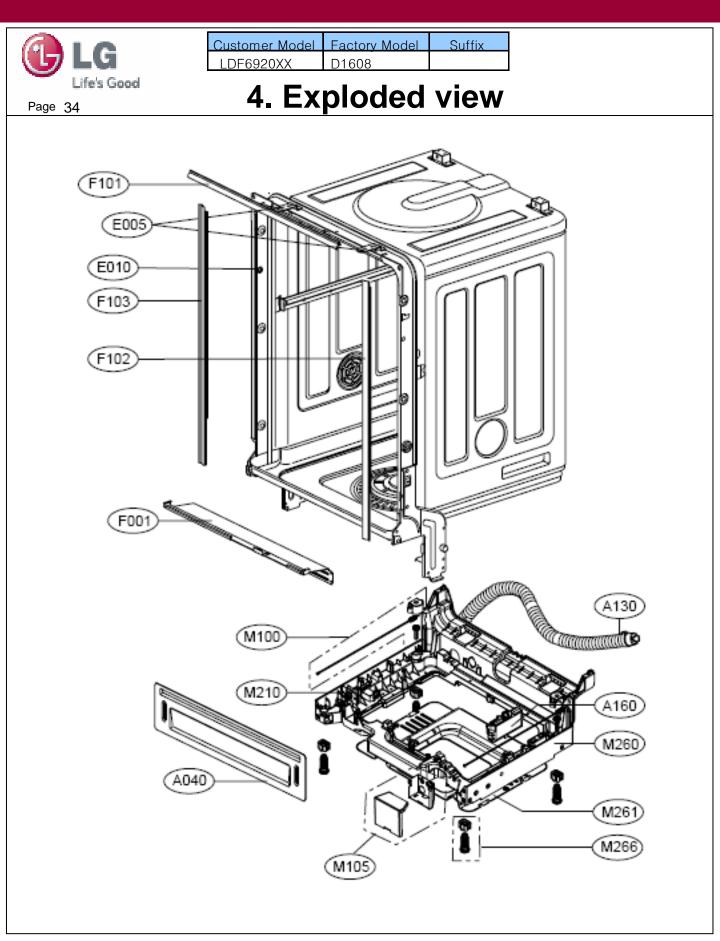
Reason : High air pressure in the tub .

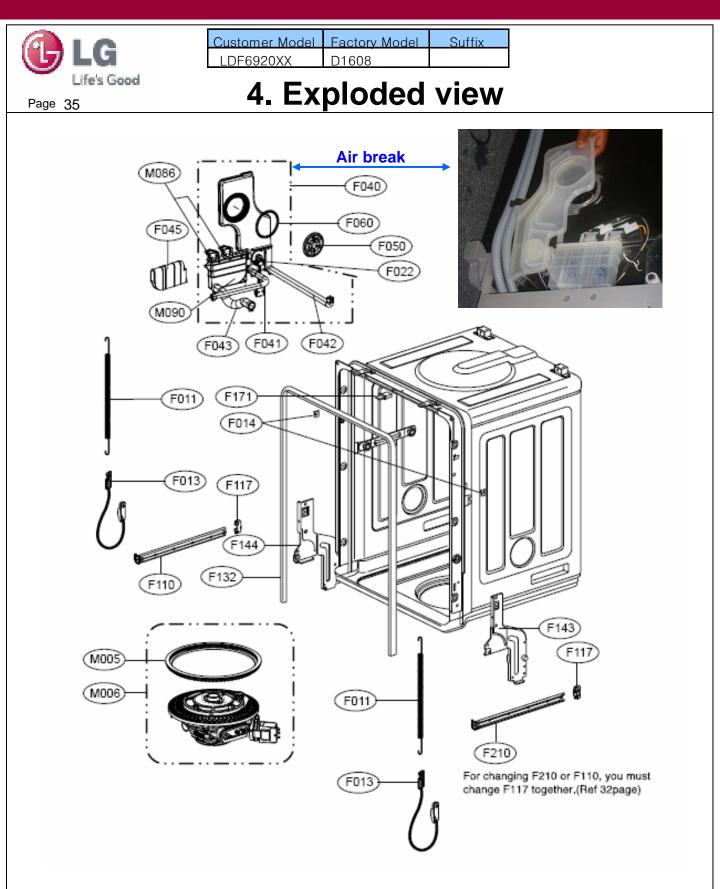


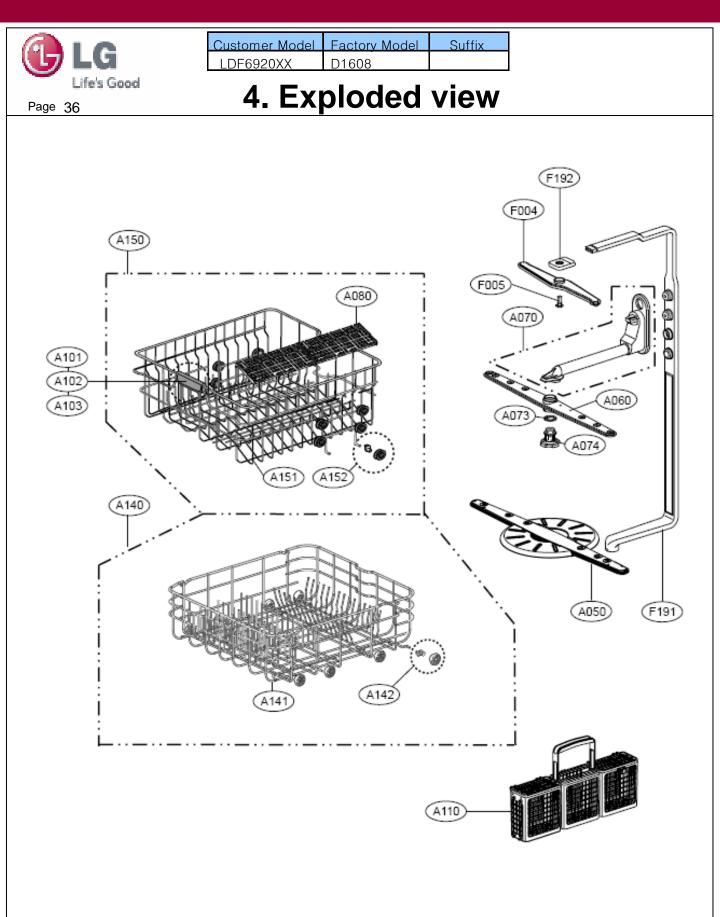
Solution : Exchange air guide assembly $A \rightarrow B (S/no: 902~)$

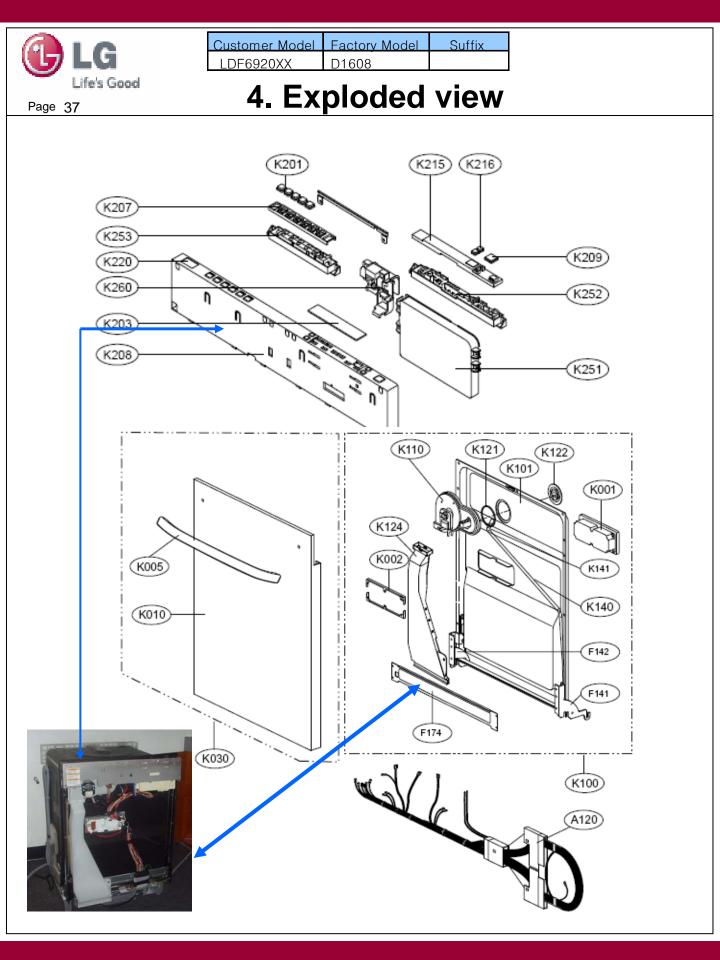


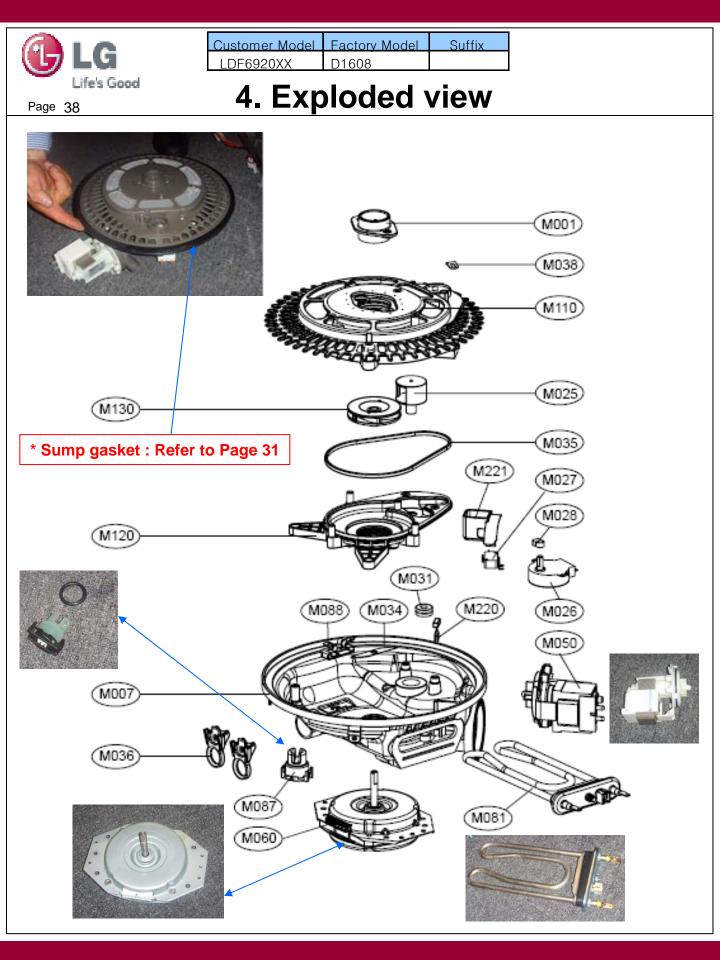














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SERVICE BULLETIN-1

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Installation improvement

Date of issue: 17 Oct 2008

Buyer Model : LDS5811XX,LDS5811XX/01,LDS5811XX/02, LDF7811XX,LDF7811XX/01, LDF7810XX, LDF7810XX/01, LDF6810XX,LDF6810XX/01,LDF6810XX/02, LDF8812XX,LDF8812XX/01, LDF9810XX, LDF9810XX/01, LDS4821XX, LDF6920XX, LDF8922XX, LDF7920XX, LDF7932XX

LGE Model: LD-6090XX,LD-6100XX,LD-6105XX,LD-6106XX,LD-6300XX,LD-6310XX,LD-6311XX D1401XX,D1607XX,D1608XX,D1613XX

Buyer Name: LGECI, LGEUS

Effective Date: 01 Oct 2008

Applicable Serial No: 501KWXXXXX ~

Subject: Parts change for Installation convenience.

1.Phenomenon : Changes to base affecting installation

2.Reason : Changes have been made to the base in order to make installation faster and easier.

3.Major Changed parts

Old base	New base	New Base \rightarrow Modify
3040ED1003A	MAM34326301	MAM34326301
501KW***** ~ 609KW*****	610KW***** ~ 809KW*****	810KW***** ~

Remark : All changes have been made to the base. See the exploded view and chart for part numbers and compatibility.

* [Alphabetic Code	١	Numeral Code
nterch	Α	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity
Interchangeability	В	Old parts can be substituted for new parts :Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	-	To improve reliability Change of material or
	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	dimension Addition
Code	D	Not interchangeable : New parts can be used in new products only.	6 7	Deletion Correction

Y.J.Lee

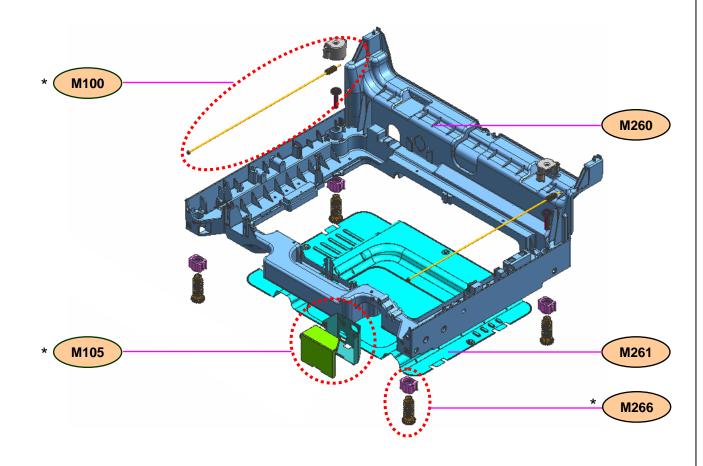
Y.J Lee Dish Washer Engineering Design Department.



SERVICE BULLETIN-1 Installation improvement

4.SVC Method:

Service procedures for models with the new base are not affected by these changes. The only difference is in the removal for service and reinstallation of the product after service. Parts of the base are not interchangeable between old and new style bases. If any old style base parts must be replaced, refer to the chart on the next page and order ALL the parts listed for the old style base. (Applied date: 01.Oct.2008)



* [Alphabetic Code	١	Numeral Code	
Interchangeability	A B	Interchangeable: Old and new parts can be used in products as the bulletin regardless of manufacturing date. Old parts can be substituted for new parts :Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	2	To improve performance To improve productivity To improve reliability Change of material or	Y.J.Lee
oility Code	C D	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date. Not interchangeable : New parts can be used in new products only.	567	dimension Addition Deletion Correction	Y.J Lee Dish Washer Engineering Design Department.



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Installation improvement

Serial No. : 501KWxxxxx ~ 609KWxxxxx

Location Number	Old base part number	Use these service part numbers
M100		_
M105	Case (3110DD3002A)	 * Parts Assembly (AGM72098101) Base cover Asm (ACQ31707201) * Parts Assembly (AGM72573101) Side cabinet-R (3090ED1001D/E/F) Side cabinet-L (3090ED1002D/E/F)
M260	Base (3040ED1003A)	 * Parts Assembly (AGM72098101) Base cover Asm(ACQ31707201) * Parts Assembly (AGM72573101) Side cabinet-R(3090ED1001D/E/F) Side cabinet-L (3090ED1002D/E/F)
M261	Base cover Asm (3551DD1002A)	 * Parts Assembly (AGM72098101) Base cover Asm(ACQ31707201) * Parts Assembly (AGM72573101) Side cabinet-R(3090ED1001D/E/F) Side cabinet-L (3090ED1002D/E/F)
M266	Leg (4778DD3001A)	* Parts Assembly (AGM72461901) (NOTE: Nut is not used on old bases)

* Parts Assembly (only for SVC) : refer to the next page for details

NOTE ; If the LOC#M105 , LOC# M260, LOC#M261 must be replaced on older models, order all the parts listed in the table above.

*]		Alphabetic Code	1	Numeral Code	ļ
nterch	Α	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity	
Interchangeability	В	Old parts can be substituted for new parts :Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.		To improve reliability Change of material or	
ility C	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	dimension Addition	[
Code	D	Not interchangeable : New parts can be used in new products only.	6 7	Deletion Correction	

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Installation improvement

Serial No. : 610KWxxxxx ~ 809KWxxxxx

Location Number	Old base part number	Use these service part numbers
M100		_
M105	Case (3110DD3002A) Cover Asm (3551DD3001A)	 * Parts Assembly (AGM72098101) Base cover Asm (ACQ31707201) * Parts Assembly (AGM72573101)
M260	Base (MAM34326301)	 * Parts Assembly (AGM72098101) Base cover Asm(ACQ31707201) * Parts Assembly (AGM72573101)
M261	Base cover Asm (MCK34326401)	 * Parts Assembly (AGM72098101) Base cover Asm(ACQ31707201) * Parts Assembly (AGM72573101)
M266	Leg (4778DD3001A)	* Parts Assembly (AGM72461901) (NOTE: Nut is not used on old bases)

* Parts Assembly (only for SVC) : refer to the next page for details

NOTE; If the LOC#M105, LOC# M260, LOC#M261 must be replaced on older models, order all the parts listed in the table above.

	_	· · · · · · · · · · · · · · · · · · ·			
* [Alphabetic Code	١	Numeral Code	
nterch	A	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance	
Interchangeability Code	В	Old parts can be substituted for new parts :Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	2 3 4	To improve productivity To improve reliability Change of material or	_
	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	dimension Addition	Di
ode	D	Not interchangeable : New parts can be used in new products only.	6 7	Deletion Correction	

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Serial No. : 810KWxxxxx ~

Location Number	Old base part number	Use these service part numbers
M100	Parts Assembly (AGM72461801)	* Parts Assembly (AGM72461801)
M105	Parts Assembly (AGM72573101)	* Parts Assembly (AGM72573101)
M260	Base (MAM34326301)	* Parts Assembly (AGM72098101)
M261	Base cover Asm (ACQ31707201)	Base cover Asm(ACQ31707201)
M266	Parts Assembly (AGM72461901)	* Parts Assembly (AGM72461901) (NOTE: Nut is not used on old bases)

* Parts Assembly (only for SVC) : refer to the next page for details

NOTE ; If the LOC#M105 , LOC# M260, LOC#M261 must be replaced on older models, order all the parts listed in the table above.

*]		Alphabetic Code	1	Numeral Code	
nterch	Α	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity	
Interchangeability Code	В	Old parts can be substituted for new parts :Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	2 3 4	To improve reliability Change of material or	_
ility C	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	dimension Addition	Di
Code	D	Not interchangeable : New parts can be used in new products only.	6 7	Deletion Correction	

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SERVICE BULLETIN-1

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Installation improvement

* Parts Assembly (only for SVC)

M100	Parts Assembly AGM72461801	ShaftAssembly 1 Holder(Bracket) 1 Leg(Coupler) 1	T C C C C C C C C C C C C C C C C C C C
M105	Parts Assembly AGM72573101	Case 1 CoverAssembly 1	
M260	Parts Assembly AGM72098101	Base 1 Leg 4 Nut 4 ShaftAssembly 2 Holder(Bracket) 2 Leg(Coupler) 2	
M266	Parts Assembly AGM72461901	Leg 1 Nut 1	

Base cover Asm

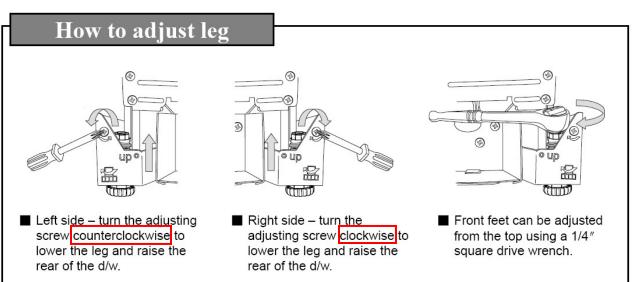
	M261	Base cover Asm ACQ31707201	Cover, base1Damper, damping1Label, caution1		a state	
* [Alphabetic	Code		Numeral Code	
Interchangeability	A the build of the	lletin regardless of manufactor arts can be substitut	ew parts can be used in products a cturing date. ed for new parts :Old parts of manufacture date. New parts ca	2	To improve performance To improve productivity To improve reliability Change of material or	Y.J.Lee
ility Code	C New parts ca	parts can be substitu n be used in products regar	tted for old parts : Only new dless of manufacture date. parts can be used in new product	5	dimension Addition Deletion Correction	Dish Washer Engineering Design Department.



SERVICE BULLETIN-1 Installation improvement

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5.How to adjust leg



NOTE ;

When you adjust the rear legs, use care to turn the adjusters in the proper direction.

These adjusters may be damaged by being driven in reverse at the upper stops.

Turning the adjusters the wrong way when the leg is fully retracted will produce a loud snapping sound to alert you that it has reached the upper limit.

If you use an electric screwdriver, keep the torque setting as low as possible to reduce the possibility of damage to the adjusting mechanism.

In the event that a rear adjuster is damaged, you can adjust the leg manually as before by removing the broken adjusters.

* I		Alphabetic Code	١	Numeral Code
Interchan	Α	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity
nangeability	В	Old parts can be substituted for new parts :Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	2 3 4	To improve reliability Change of material or
-	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	dimension Addition
Code	D	Not interchangeable : New parts can be used in new products only.	6 7	Deletion Correction

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SERVICE BULLETIN-2

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Drain hose with siphon protector

Page 46

LG Electronics Inc.

Date of issue: 12. November. 2008

Buyer Model : LDS5811XX,LDF7811XX,LDF7810XX,LDF7920XX,LDF6810XX,LDF8812XX,LDF8922XX LDF9810XX,LDS4821XX,LDF6920XX,LDF7932XX,LDF9932XX

LGE Model : LD-6090XX,LD-6100XX,LD-6105XX,LD-6106XX,LD-6300XX,LD-6310XX,LD-6311XX D1401XX,D1607XX,D1608XX,D1613XX,D1412XX

Buyer Name : EUS / ECI

Effective Date : 12. November. 2008

Applicable Serial No. : 811##### ~

SUBJECT : New Drain Hose

1.Phenomenon : Siphon break added to drain hose2.Reason : Siphon break added to prevent siphoning water from tub

*. Service Caution : When replacing the sump heater you should also replace the drain hose with the added siphon break.

3.Changed parts

LOC No. and	BEFORE	AFTER
Description	(S/N:501KW#####~810#####)	(S/N :811##### ~)
A130 Drain hose	AEM30700301	AEM69493801

*In		Alphabetic Code		Numeral Code	
Intercha		Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.		To improve performance	<u>0. 11. 11wung</u>
angeability	В	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	2 3 4	To improve productivity To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine Lal
<u>_</u>	С	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
Code	D	Not interchangeable : New parts can be used in new products only.	7	Correction	



SERVICE BULLETIN-2 P **Drain hose with siphon protector**

***** When replacing the old style drain hose with the new style drain hose follow the steps below.

- 1) There are 2 methods of mounting the siphon break. For bracket installation follow step "a". For wire tie installation follow step "b".
 - a) Insert the right side of the siphon break under the bracket as shown below.





Page:2/3

b) Use the existing wire tie from the previous hose to support the siphon break and hose





2) Insert the drain hose into the lower bracket.

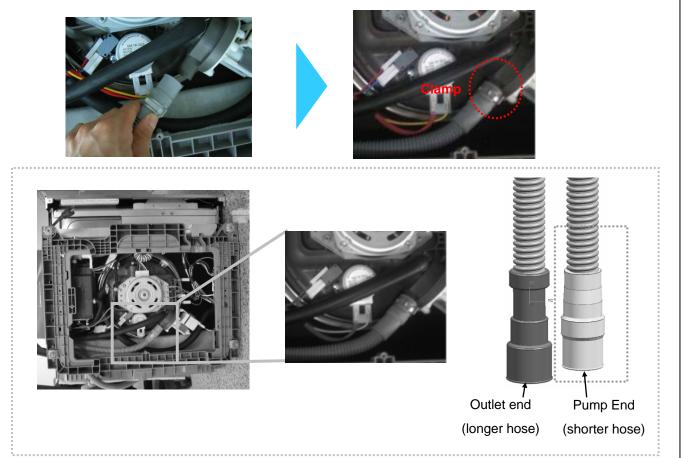




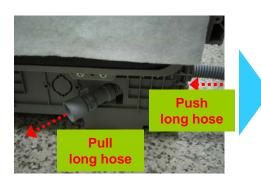


SERVICE BULLETIN-2 Page:3/3 **Drain hose with siphon protector**

3) Attach the drain hose to the drain hose outlet on the sump using the clamp provided. Clamp is included with the new hose.



4) Feed outlet end of long hose through the hole in the back of the base and attach bracket holder. Check to make sure hose is not kinked or twisted.







5) Reinstall the dishwasher as described in the installation manual.



SERVICE BULLETIN -3

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Hinge spring & wire about door drop

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LG Electronics Inc.

Date of issue: 4. February. 2009

Buyer Model : LDF8812ST, LDF8812ST/01, LDF8922ST, LDF78****, LDF78****/01, LDF6810**, LDF6810**/01, LDF6810**/02, LDF6920**, LDS5811**, LDS5811**/01, LDS5811**/02, LDS4821** LGE Model : LD-63**, LD-63**1, LD-63**2, LD-61**, LD-61**1, D1608**, LD-6090**, LD-6090**1,

LD-6090**2, D1607**

Buyer Name : EUS / ECI

Effective Date : 4. February. 2009

Applicable Serial No. : 501KWXXXX ~

SUBJECT : Change of Spring Hinge & Connector Assy.

Symptom : When a user open or close the door, the door can be stayed at any position that a user want to stop. If the door doesn't stop and falls by itself, than the SPRING, HINGE or the CONNECTOR ASSMBLY should be changed.

- 1. Phenomenon : Change of Spring Hinge & Connector Assy.
- 2. Reason : Improve the Door System of the Fully-type Dishwasher

3. Changed parts ; for the Fully Type Dishwasher

			Use these part numbers for SVC			
Location Number	When replacing these Parts	Old base part number	Fully Model (LDF8812ST, LDF8812ST/01, LDF8922ST, LDF6810**, LDF6810**/01, LDF6810**/02, LDF6920**, LDF78****, LDF78****/01)			
			Serial No. : 501~ 812KWxxxxx	Serial No. : 901KWxxxxx ~		
F011	SPRING, HINGE	4970ED4004A	4970ED4004G(SPRING) 4933DD3001B(CONNECTOR)	4970ED4004G		
F013	CONNECTOR ASSEMBLY	4933DD3001A	4970ED4004G(SPRING) 4933DD3001B(CONNECTOR)	4933DD3001B		

 Note : The SPRING, HINGE[4970ED4004G] and the CONNECTOR ASSEMBLY[4933DD3001B] should be applied all together for a fully type dishwasher.

• Note : Serial No. 501~ 812KWxxxxx ;

If you need to repair the SPRING HINGE, the CONNECTOR ASSEMBLY must be changed together. Or if you need to repair the CONNECTOR ASSEMBLY, the SPRING HINGE must be changed together.

*Inter		Alphabetic Code		Numeral Code	
erchai	A	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity	<u>1. 5. Cha</u>
changeabili	B	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	3 4	To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine Lab
ty C	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
ode	D	Not interchangeable : New parts can be used in new products only.	7	Correction	



SERVICE BULLETIN -3

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Hinge spring & wire about door drop

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LG Electronics Inc.

Date of issue: 4. February. 2009

4. Changed parts ; for the Semi Type Dishwasher

Location Number		Semi Model (LDS5811**, LDS5811**,	/01, LDS5811**/02, LDS4821**)
LOCAL		Before: 501~ 812KWxxxxx	After: 901KWxxxxx ~
F013	CONNECTOR ASSEMBLY	4933DD3001A	4933DD3001B

• Note : The CONNECTOR ASSEMBLY[4933DD3001B] should be applied for every semi type dishwasher.

 Note : Serial No. 501~ 812KWxxxxx ; If you need to repair a CONNECTOR ASSEMBLY, apply the 4933DD3001B.

5.Pictures of parts

SPRING, HINGE				
4970ED4004A	4970ED4004G			
Non colored	Colored Black			
CONNECTOR	ASSEMBLY			
4933DD3001A	4933DD3001B			
White	Black			

*Inter		Alphabetic Code		Numeral Code	
	A	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity	<u>1. J. Cila</u>
changeabilit	B	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	3 4	To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine Lab
Y	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
Code	D	Not interchangeable : New parts can be used in new products only.	7	Correction	



SERVICE BULLETIN-4

Vent to prevent condensation

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LG Electronics Inc.

Date of issue: 10. February. 2009

Buyer Model : LDS5811BB,LDF7811BB,LDF7810BB,LDF7920BB,LDF6810BB, LDS4821BB,LDF6920BB

LGE Model : LD-6090BB,LD-6100BB,LD-6105BB,LD-6106BB,LD-6300BB, D1607BB,D1608BB

Buyer Name : EUS / ECI

Effective Date : 1. January. 2009

Applicable Serial No. : S/N : 712KWxxxxx~812xxxxxxx

In Production- 901xxxxx ~

SUBJECT : New vent assembly for drying – To reduce moisture on the floor during dry cycle

1.Problem : moisture build up on floor as a result from the drying cycle

2.Solution : Redesigned vent to prevent condensation build up on floor.

3.Changed parts



LOC No. and Description	BEFORE (S/N:712KW#####~812#####)	AFTER (S/N :901##### ~)
K124 Vent	MJZ39902101	Oder Part as needed by colori • Black door -MJZ61841503 Black
A A	lphabetic Code	Numeral Code

*Interc]		Alphabetic Code		Numeral Code	
rchar	A	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.	\sim	To improve performance To improve productivity	<u>0. 11. 11wung</u>
hangeabili	В	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.		To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine Lab
ity Co	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
ode	D	Not interchangeable : New parts can be used in new products only.	7	Correction	

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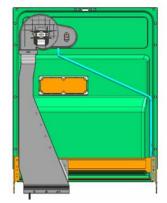
SERVICE BULLETIN-4

Vent to prevent condensation

***** To replace vent, follow the steps below.

a) Remove front door by unfasten 6 screws

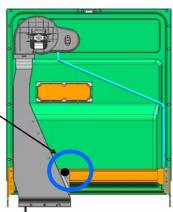


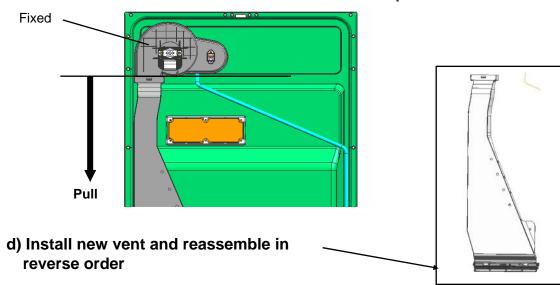


b) remove screw securing vent

c) Remove old vent from blower assembly by pulling down.

Note: Only the vent should be removed, motor assembly is fixed and it should not need to be removed for this process.





SERVICE BULLETIN-5 HE ERROR Date of issue: 4. November. 2009

Page:2/2

Buyer Model : LDS4821**, LDF 7920**, LDF7932**, LDF9932**, LDS5811**, LDF9810**`

LGE Model : D1607**, LD-6106**, D1613**, D1412, LD-6090**, D1401**

Buyer Name : ECI

LG Electronics Inc.

Effective Date : 4. November . 2009

Applicable Serial No. :Refer to the below

SUBJECT : PCB replacement SVC to correct 'HE' error code

Background

1) During the production date specified below, programming errors have been identified that cause the units to display an 'HE' error code. New boards have been developed to correct this problem.

Resolution:

On the affected models, within the specified serial range, replace the main PCB board. This will resolve the issue.

Note: As this is a programming error we advise to replace the board on these units even if the initial call is not due to an 'HE' error, this will prevent the issue from occurring in the future.

Buyer Model	Before/After	Main PCB (P/N)	Bulletin issue date(Ver. 1)	Applicable Serial No	Program(PCB, Main) History
LDS4821**	Before	EBR33469402	09.7.27	901KW#####~	S/no 907~ modification was
LD34021**	After	EBR33469404	09.7.27	906KW <i>#####</i>	completed during production.
LDF7920**	Before	6871DD1006L	09.9.23	901KW <i>#####</i> ~	S/no 908~ modification was
LDF7920**	After	6871DD1006S	09.9.23	907KW <i>#####</i>	completed during production.
LDF7932**	Before	EBR38144402	09.7.27	901KW <i>#####</i> ~	S/no 907~ modification was
LDF7932**	After	EBR38144404	09.7.27	906KW <i>#####</i>	completed during production.
LDF9932**	Before	EBR38144403	09.7.27	901KW <i>#####</i> ~	S/no 907~ modification was
LDF9932**	After	EBR38144405	09.7.27	906KW <i>#####</i>	completed during production.
LDS5811**	Before	6871DD1006K	09.12.31	901KW <i>#####</i> ~	S/no 912~ modification was
LD22011**	After	6871DD1006T	(expected)	911KW <i>#####</i>	completed during production.
	Before	EBR38144401	09.12.8	901KW <i>#####</i> ~	S/no 910~ modification was
LDF9810**	After	EBR38144406	09.12.0	909KW <i>#####</i>	completed during production.

Page:1/1

SERVICE BULLETIN

DISHWASHER

LG Electronics Inc.

Date of issue: 29. Dec. 2009

Buyer Model : LDF8812ST, LDF9*****, LDF7*****, LDF6810**, LDF6920**, LDS4821**

LGE Model : LD-63**, LD-61**, LD-6090**, D1607**, D1608**. D1613**, D1412**

Buyer Name : EUS / ECI

Applicable Serial No. : 811KWXXXX ~

SUBJECT : Change of Drain Hose Assy for prevention of air sucking noise due to siphoning water

- 1. Phenomenon : Air sucking noise
- 2. Reason :
 - Prevent leakage from drain hose
 - Prevent air sucking noise due to siphoning water.
 - Prevent heater damage due to siphoning water

3.Changed parts

		Use these part numb	ers for SVC
Location	When replacing these	Serial No. : 811~ 907KWxxxxx	Serial No. : 908KWxxxxx ~
Number	parts	LDF8*****, LDF9****ST, LDF6****,LDF7932** LDF6920**, LDS48****	LDF8*****, LDF9****ST, LDF6*****,LDF7932** LDF6920**, LDS48****
A130	Drain Hose Asm (P/N:AEM69493801) (P/N:AEM30700301)	AEM69493803(Drain Hose Asm) & 4975DD1001* (Guide Asm, Loc # : F040)	AEM69493803 (Drain Hose Asm)
A130	Drain Hose Asm (P/N:AEM69493802)	AEM69493804(Drain hose Asm) & 4975DD1001* (Guide Asm, Loc # : F040)	AEM69493804 (Drain Hose Asm)

		Alphabetic Code		Numeral Code	
	A	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.		To improve performance To improve productivity	<u>B. S. Son</u>
	B	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	/	To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine I
(C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5		LG Electronics DA
	D	Not interchangeable : New parts can be used in new products only.	7	Correction	

Siphon effect makes water drain out

Wrong Installation

Effective Date : 28th. Dec. 2009

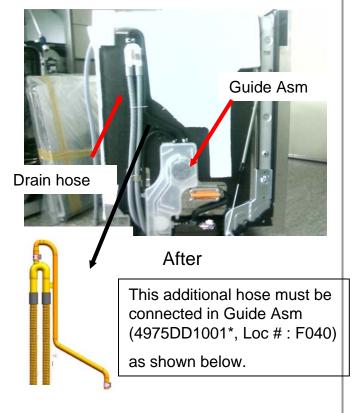
Note : Serial No. 811~ 907KWxxxxx ;

If you need to repair the Drain Hose Asm, The drain hose Asm& Guide Asm (Loc# : F040) must be changed together. Otherwise it might make leakage from the Drain Hose Asm.

Name	Old P/N	New P/N
Drain hose Asm	AEM69493801	AEM69493803
Drain hose asm	AEM69493802	AEM69493804



Before



3) clamp the drain hose into Guide Asm . It prevents leakage from drain hose







SERVICE BULLETIN

DISHWASHER

LG Electronics Inc.

Date of issue: 15. Jan. 2010

Buyer Model : LDF6920WW/BB

LGE Model : D1608WB/BB

Buyer Name : EUS

Effective Date : 28th. Dec. 2009

Applicable Serial No. : 804KW##### ~906KW#####

SUBJECT : Change of Main PCB for prevention of air sucking noise due to water siphoning

- 1. Phenomenon : Air sucking noise
- Sometimes makes sucking noise after operating for 20~30 min.

2. Reason :

- To prevent air sucking noise due to water siphoning.

3.Background

- If dishwasher is installed incorrectly, like the picture, it makes an air sucking noise. This is because it is programmed for partial draining.

3.Resolution

Replace all PCB Main boards without exception (New part number is **6871DD1006Q**.) Correct improper installation.

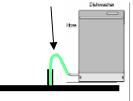
★ A drain hose for siphon protection was upgraded 1st Jan, 2009 (Refer to the appendix #1)

- * You can use the New PCB (6871DD1006Q) in all cases
- * Don't use the old PCB (6871DD1006N) in any case

Part Description (Loc)	Before	After
PCB Main (K 251)	6871DD1006N	6871DD1006Q

*Inte		Alphabetic Code		Numeral Code	
Interchan	A	Interchangeable : Old and new parts can be used in products as per the bulletin regardless of manufacturing date.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	To improve performance To improve productivity	<u>D. 3. 3011</u>
ngeability	B	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	3 4	To improve reliability Change of material or	Research Engineer Dishwasher Gr. Washing Machine Lab
\circ	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
ode	D	Not interchangeable : New parts can be used in new products only.	7	Correction	

Siphon effect makes water drain out



Incorrect Installation

Page:1/1

SERVICE BULLETIN

DISHWASHER

LG Electronics Inc.

Date of issue: 15. Jan. 2010

Buyer Model : LDF6920ST

LGE Model : D1608TB

Buyer Name : EUS

Effective Date : 28th. Dec. 2009

Applicable Serial No. : 804KW##### ~906KW#####

SUBJECT : Change of Main PCB for prevention of air sucking noise due to water siphoning

- 1. Phenomenon : Air sucking noise
- Sometimes makes sucking noise after operating for 20~30 min.

2. Reason :

- To prevent air sucking noise due to water siphoning.

3.Background

- If dishwasher is installed incorrectly, like the picture, it makes an air sucking noise. This is because it is programmed for partial draining.

3.Resolution

Replace all PCB Main boards without exception (New part number is **6871DD1006R**.) Correct improper installation.

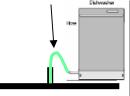
★ A drain hose for siphon protection was upgraded 1st Jan, 2009 (Refer to the appendix #1)

- * You can use the New PCB (6871DD1006R) in all cases
- * Don't use the old PCB (6871DD1006P) in any case

Part Description (Loc)	Before	After
PCB Main (K 251)	6871DD1006P	6871DD1006R

*Inte		Alphabetic Code		Numeral Code	
Interchan	Α	Interchangeable : Old and new parts can be used in products as per the bulletin regardless of manufacturing date.	1	To improve performance To improve productivity	<u>D. 3. 3011</u>
ngeability	В	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	3 4	To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine Lab
\cap	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
ode	D	Not interchangeable : New parts can be used in new products only.	7	Correction	

Siphon effect makes water drain out



Incorrect Installation

J 110136.

Page:1/1

SERVICE BULLETIN

DISHWASHER

LG Electronics Inc.

Date of issue: 15. Jan. 2010

Buyer Model : LDS4821**

LGE Model : D1607**

Buyer Name : EUS / ECI

Effective Date : 28th. Dec. 2009

Applicable Serial No. : 804KW##### ~906KW#####

SUBJECT : Change of Main PCB for prevention of air sucking noise due to water siphoning

- 1. Phenomenon : Air sucking noise
- Sometimes makes sucking noise after operating for 20~30 min.

2. Reason :

- To prevent air sucking noise due to water siphoning.

3.Background

- If dishwasher is installed incorrectly, like the picture, it makes an air sucking noise. This is because it is programmed for partial draining.

3.Resolution

Replace all PCB Main boards without exception (New part number is EBR 33469404.) Correct improper installation.

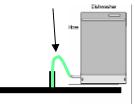
★ A drain hose for siphon protection was upgraded 1st Jan, 2009 (Refer to the appendix #1)

- * You can use the New PCB (EBR 33469404) in all cases
- * Don't use the old PCB (EBR 33466402) in any case

Part Description (Loc)	Before	After
PCB Main (K 251)	EBR 33469402	EBR 33469404

*Inte	Alphabetic Code			Numeral Code	
ıterchan	A	Interchangeable : Old and new parts can be used in products as per the bulletin regardless of manufacturing date.		To improve performance To improve productivity	<u>D. 3. 3011</u>
ngeability	В	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	/	To improve reliability Change of material or dimension	Research Engineer Dishwasher Gr. Washing Machine Lab
\cap	C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
ode	D	Not interchangeable : New parts can be used in new products only.	7	Correction	

Siphon effect makes water drain out



Incorrect Installation

Service Bulletin

<u>der noe Banetin</u>									
LG Electronics Inc. Date of issue: 31 Mar 2010									
Buyer Model: DWV1608xx LDF6810xx LDF6920xx LDF7810xx LDF7811xx LDF7920xx LDF7932xx LDF8812xx LDF8922xx LDF9810xx LDF9932xx LDS4821xx LDS5811xx LDS5811xx LDS5811xx LSDF795xx LSDF995xx LSDF995xx									
LGE Model : D1401xx D1412xx D1414xx D1607xx D1608xx D1613xx D1616x LD-6090xxx LD-6100xxx LD-6105xxx LD-6106xx LD-6300xxx LD-6310xxx LD-6311xx									
Buyer Name : EUS / ECI Effective Date : 16. March. 2010									
Applicable Serial No.	: 10300001 ~								
SUBJECT : Improv	ement of installation	on (Worm Gea	r Strip)						
Symptom Details O Issue: -Rear leg worm gears stop working after multiple adjustments. O Reason: - The strength of the gear is too weak for lifting the product multiple times (Mold: Nylon POM) Improvement: - Changed gear material from Nylon POM to Zinc Alloy (Improved Strength) - Changed the shape of the parts (Improved Strength) - Changed the shape of the parts (Improved Strength) Additional Modification to base on all models needed from 810KWxx~ 102KWxx: - To use new parts on the old base some modification to the base is needed (see page 3 - Apppendix.2) Parts Chart:									
P/N	Old (810KWxxx~10		New (~103KWxxx)		LOC.				
AGM72461801	4371DD2	2001B	4470DD4001 4370DD2001	D	M100				
, (6 2 101001	MEC583	73101		11					

Compatibility

-. Old parts can be used on new base.

-. New parts can be used on old base with a slight modification to the base. See Appendix 2

MEG58373101 MFA57912301

	Old Products (810KWxxx~102KWxxx)	New Products (~103KWxxx)
AGM72461801(Old)	0	0
AGM72461801(New)	X	0

MEG58373101

MFA57912302

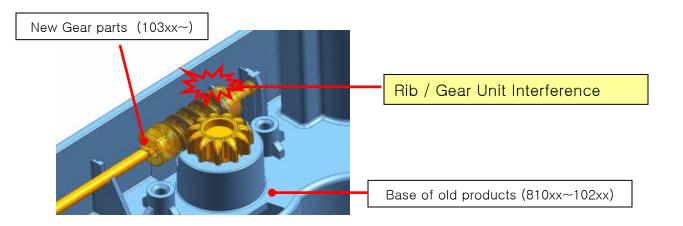
*Int		Alphabetic Code	Numeral Code	
ercha	Α	Interchangeable : Old and new parts can be used in products as per the bulletin regardless of manufacturing date.	1 To improve performance 2 To improve productivity	<u>1.11. Cho</u>
terchangeability (B	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	 3 To improve productivity 3 To improve reliability 4 Change of material or dimension 	Research Engineer Dishwasher Gr. Washing Magnine Lal
	С	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5 Addition 6 Deletion	LG Electronics DAC
Code	D	Not interchangeable : New parts can be used in new products only.	7 Correction	J

Appendix A. Part detail

P/N		(810KW)	Old xxx~102KWxxx)	New (~103KWxxx)		
		4371DD2001B		4470DD4001B	Enne-	
AGM72461801		43710020010		4370DD2001D		
AGM72401001	810xxx~102xx	MEG58373101		MEG58373101		
	102xx~	MFA57912301	9	MFA57912302		

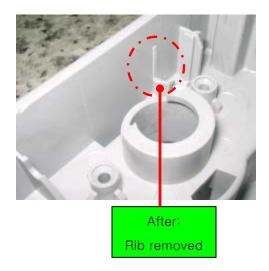
Appendix B. SVC Method

Compatibility of new worm gear system with old base



To use the new worm gear parts on the old base you will need to modify old base to allow for clearance.





- Put gloves on to prevent injury
- Using a utility knife, remove the rib located on the back side of the rear foot hole (as illustrated above).
- Note: If replacing both rear feet worm gears the rib will need to be removed from both sides.

Appendix C. SVC Model

No.	Factory Model	Factory Suffix	Customer Model	No.	Factory Model	Factory Suffix	Customer Model
1	D1401TB	ASTEECI	LDF9810ST	43	LD-6090WB2	ABWEECI	LDS5811WW
2	D1401TB	ASTEEUS	LDF9810ST	44	LD-6090WB2	ABWEEUS	LDS5811WW
3	D1401TB1	ASTEECI	LDF9810TB	45	LD-6100BB	ABPEEUS	LDF7811BB
4	D1401TB1	ASTEEUS	LDF9810ST	46	LD-6100BB1	ABPEEUS	LDF7811BB
5	D1412TB	ASTEECI	LDF9932ST	47	LD-6100TB	ASTEEUS	LDF7811ST
6	D1412TB	ASTEEUS	LDF9932ST	48	LD-6100TB1	ASTEEUS	LDF7811ST
7	D1414TB	ASTEEUS	LSDF995ST	49	LD-6100WB	ABWEEUS	LDF7811WW
8	D1607BB	ABPEEUS	LDS4821BB	50	LD-6100WB1	ABWEEUS	LDF7811WW
9	D1607BB	ABPEECI	LDS4821BB	51	LD-6105BB	ABPEECI	LDF7810BB
10	D1607TB	ASTEECI	LDS4821ST	52	LD-6105BB	ABPEEUS	LDF7810BB
11	D1607TB	ASTEEUS	LDS4821ST	53	LD-6105BB1	ABPEEUS	LDF7810BB
12	D1607WB	ABWEECI	LDS4821WW	54	LD-6105BB1	ABPEECI	LDF7810BB
13	D1607WB	ABWEEUS	LDS4821WW	55	LD-6105TB	ASTEECI	LDF7810ST
14	D1608BB	ABPEECI	LDF6920BB	56	LD-6105TB	ASTEEUS	LDF7810ST
15	D1608BB	ABPEEUS	LDF6920BB	57	LD-6105TB1	ASTEEUS	LDF7810ST
16	D1608TB	ASTEEUS	LDF6920ST	58	LD-6105WB	ABWEEUS	LDF7810WW
17	D1608TB	ASTEECI	LDF6920ST	59	LD-6105WB1	ABWEEUS	LDF7810WW
18	D1608TB	ASTFLMS	DWV1608TB	60	LD-6106BB	ABPEECI	LDF7920BB
19	D1608WB	ABWEECI	LDF6920WW	61	LD-6106TB	ASTEECI	LDF7920ST
20	D1608WB	ABWEEUS	LDF6920WW	62	LD-6106WB	ABWEECI	LDF7920WW
21	D1608WB	ABWEEUS	LDF6920WW	63	LD-6300BB	ABPEEUS	LDF6810BB
22	D1613BB	ABPEEUS	LDF7932BB	64	LD-6300BB	ABPEECI	LDF6810BB
23	D1613TB	ASTEEUS	LDF7932ST	65	LD-6300BB1	ABPEECI	LDF6810BB
24	D1613TB	ASTEECI	LDF7932ST	66	LD-6300BB1	ABPEEUS	LDF6810BB
25	D1613WB	ABWEEUS	LDF7932WW	67	LD-6300BB2	ABPEECI	LDF6810BB
26	D1616TB	ASTEEUS	LSDF795ST	68	LD-6300BB2	ABPEEUS	LDF6810BB
27	LD-6090BB	ABPEECI	LDS5811BB	69	LD-6300TB	ASTEEUS	LDF6810ST
28	LD-6090BB	ABPEEUS	LDS5811BB	70	LD-6300TB1	ASTEEUS	LDF6810ST
29	LD-6090BB1	ABPEEUS	LDS5811BB	71	LD-6300TB1	ASTEECI	LDF6810ST
30	LD-6090BB1	ABPEECI	LDS5811BB	72	LD-6300TB2	ASTEECI	LDF6810ST
31	LD-6090BB2	ABPEEUS	LDS5811BB	73	LD-6300TB2	ASTEEUS	LDF6810ST
32	LD-6090BB2	ABPEECI	LDS5811BB	74	LD-6300WB	ABWEEUS	LDF6810WW
33	LD-6090TB	ASTEECI	LDS5811ST	75	LD-6300WB	ABWEECI	LDF6810WW
34	LD-6090TB	ASTEEUS	LDS5811ST	76	LD-6300WB1	ABWEEUS	LDF6810WW
35	LD-6090TB1	ASTEEUS	LDS5811ST	77	LD-6300WB1	ABWEECI	LDF6810WW
36	LD-6090TB1	ASTEECI	LDF6810ST	78	LD-6300WB2	ABWEEUS	LDF6810WW
37	LD-6090TB2	ASTEEUS	LDS5811ST	79	LD-6300WB2	ABWEECI	LDF6810ST
38	LD-6090TB2	ASTEECI	LDS5811ST	80	LD-6310TB	ASTEECI	LDF8812ST
39	LD-6090WB	ABWEECI	LDS5811WW	81	LD-6310TB	ASTEEUS	LDF8812ST
40	LD-6090WB	ABWEEUS	LDS5811WW	82	LD-6310TB1	ASTEECI	LDF8812ST
41	LD-6090WB1	ABWEECI	LDS5811WW	83	LD-6310TB1	ASTEEUS	LDF8812ST
42	LD-6090WB1	ABWEEUS	LDS5811WW	84	LD-6311TB	ASTEECI	LDF8922ST

Service Bulletin

LG Electronics Inc.

Date of issue: 20. May, 2010

Buyer Model: LDS4821WW/BB/ST, LDF6920WW/BB/ST, LDF7920WW/BB/ST LDF7932WW/BB/ST, LDF9932ST, LSDF795ST

LGE Model: D1607xx, D1608xx, LD-6106xx, D1613xx, D1412TB, D1616TB

 Buyer Name : EUS / ECI
 Effective Date : 16. Apr, 2010

Applicable Serial No. : 003KWxx00001 ~ 004KWxx (Some Products produced in Mar & April, 2010)

SUBJECT : Poor washing performance caused by the defect filter Asm

Symptom Details

Issue: Poor washing.



◆ Reason: Poor washing was caused by <u>removing the guide rib</u> in the filter assembly.







Filter assembly

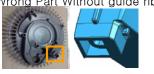
Improvement:

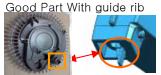
-Only if there is no guide rib in the filter assembly, Wrong Part Without guide rib

Change to a filter assy (good part) with a guide rib.

You don't need to change filter assembly, if there is a guide rib in the filter.

-When you do SVC , you must adjust twisted check valve with your finger to correct it in sump assembly. <u>If not, poor washing will</u> <u>continue.</u> 1) Change to a filter assembly with a guide rib





2) Must adjust twisted check valve with finger to correct it If not, poor washing will continue.





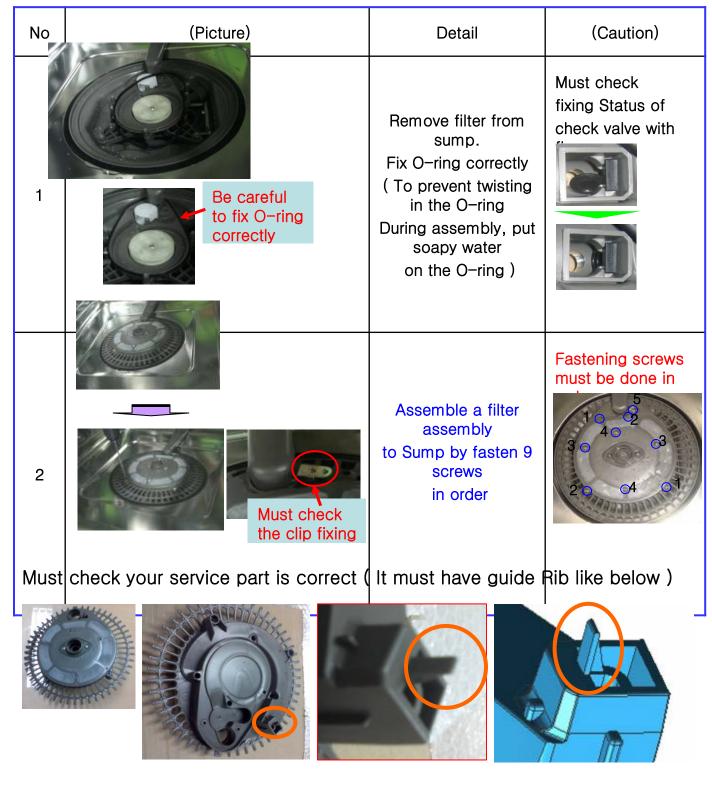
Parts Chart:

Part number	Before (003KWxx~004KWxx)	After (004KWxx~)	Loc. No
ADQ32598202 (Same parts, divided by Parts supplier contract) Compatibility	ADQ32598202 Wrong Part was discarded for SVC part.	ADQ32598202	M110

- Only new part(Good part) can be used. Discard the defective filter asm.

*Int	Alp	habetic Code		Numeral Code	
ercha	Α	Interchangeable : Old and new parts can be used in products as per the bulletin regardless of manufacturing date.		To improve performance To improve productivity	J.II. LEE
*Interchangeabi	В	Old parts can be substituted for new : Old parts can be used in products regardless of manufacture date. New parts can be used in new products only.	3 4	To improve reliability	Research Engineer Dishwasher Gr. Washing Machine Lab
ility (C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.	5	Addition Deletion	LG Electronics DAC
Cod	D	Not interchangeable : New parts can be used in new products only.	7	Correction	

Appendix A. Caution in service



Appendix B. EAI Applicable Serial No. List(1/4)

* In the list, It is included with some units having good filter Asm.

You don't need to change filter assembly, if there is a guide rib in the filter Asm.

* 003KW**XXXXX is same as 003KWXXXXX and 004KW**XXXXX is same as 004KWXXXXX

	LDS4821BB	LDS4821BB	LDS4821BB	LDS4821BB		LDS4821ST	LDS4821ST
1	003KW00150	003KW00425	003KW00475	003KW00525	1	003KW00781	003KW00907
2	003KW00152	003KW00426	003KW00476	003KW00526	2	003KW00840	003KW00908
3	003KW00165	003KW00427	003KW00477	003KW00527	3	003KW00841	003KW00909
4	003KW00166	003KW00428	003KW00478	003KW00528	4	003KW00842	003KW00910
5	003KW00167	003KW00429	003KW00479	003KW00529	5	003KW00843	003KW00911
6	003KW00168	003KW00430	003KW00480	003KW00530	6	003KW00844	003KW00912
7	003KW00175	003KW00431	003KW00481	003KW00531	7	003KW00845	003KW00913
8	003KW00176	003KW00432	003KW00482	003KW00532	8	003KW00846	003KW00914
9	003KW00241	003KW00433	003KW00483	003KW00533	9	003KW00847	003KW00915
10	003KW00242	003KW00434	003KW00484	003KW00534	10	003KW00848	003KW00916
11	003KW00244	003KW00435	003KW00485	003KW00535	11	003KVV00849	003KW00917
12	003KW00257	003KW00436	003KW00486	003KW00536	12	003KW00850	003KW00918
13	003KW00258	003KW00437	003KW00487	003KW00537	13	003KW00851	003KW00919
14	003KW00259	003KW00438	003KW00488	003KW00538	14	003KW00852	003KW00920
15	003KW00260	003KW00439	003KW00489	003KW00539	15	003KW00853	003KW00921
16	003KW00265	003KW00440	003KW00490	003KW00540	16	003KW00855	003KW00922
17	003KW00267	003KW00441	003KW00491	003KW00541	17	003KW00856	003KW00923
18	003KW00268	003KW00442	003KW00492	003KW00542	18	003KW00857	003KW00924
19	003KW00275	003KW00443	003KW00493	003KW00543	19	003KW00858	003KW00925
20	003KW00276	003KW00444	003KW00494	003KW00544	20	003KW00859	003KW00926
21	003KW00277	003KW00445	003KW00495	003KW00545	21	003KW00860	003KW00927
	003KW00278	003KW00446	003KW00496	003KW00546		003KW00861	003KW00928
23	003KW00279	003KW00447	003KW00497	003KW00547	23	003KW00862	003KW00929
24	003KW00280	003KW00448	003KW00498	003KW00548	24	003KW00863	003KW00930
25	003KW00305	003KW00449	003KW00499	003KW00549	25	003KW00864	003KW00931
	003KW00306	003KW00450	003KW00500	003KW00550		003KW00865	003KW00932
27	003KW00308	003KW00451	003KW00501	003KW00551	27	003KW00866	003KW00933
	003KW00323	003KW00452	003KW00502	003KW00552		003KW00867	003KW00934
	003KW00327	003KW00453	003KW00503	003KW00553		003KW00868	003KW00935
30	003KW00333	003KW00454	003KW00504	003KW00554		003KW00869	003KW00936
	003KW00334	003KW00455	003KW00505	003KW00555		003KW00870	003KW00937
32	003KW00339	003KW00456	003KW00506	003KW00556		003KW00871	003KW00938
	003KW00340	003KW00457	003KW00507	003KW00557		003KW00888	003KW00939
	003KW00343	003KW00458	003KW00508	003KW00558		003KW00889	003KW00940
	003KW00344	003KW00459	003KW00509	003KW00559		003KW00890	003KW00941
	003KW00345	003KW00460	003KW00510	003KW00560		003KW00891	003KW00942
	003KW00348	003KW00461	003KW00511			003KW00892	003KW00943
	003KW00352	003KW00462	003KW00512			003KW00893	003KW00944
	003KW00405	003KW00463	003KW00513			003KW00894	003KW00945
	003KW00406	003KW00464	003KW00514			003KW00895	003KW00946
	003KW00407	003KW00465	003KW00515			003KW00896	003KW00947
	003KW00408	003KW00466	003KW00516			003KW00897	003KW00948
	003KW00409	003KW00467	003KW00517			003KW00898	003KW00949
	003KW00410	003KW00468	003KW00518			003KW00899	003KW00950
	003KW00413	003KW00469	003KW00519			003KW00900	003KW00951
	003KW00414	003KW00470	003KW00520			003KW00901	003KW00952
	003KW00421	003KW00471	003KW00521			003KW00902	003KW00953
	003KW00422	003KW00472	003KW00522			003KW00903	003KVV00954
	003KW00423	003KW00473	003KW00523			003KW00904	003KW00955
_ 50	003KW00424	003KW00474	003KW00524		50	003KW00905	003KW00956

Appendix B. EAI Applicable Serial No. List(2/4)

 In the list, It is included with some units having good filter Asm. You don't need to change filter assembly, if there is a guide rib in the filter Asm.
 003KW**XXXXX is same as 003KWXXXXX and 004KW**XXXXX is same as 004KWXXXXX

LDS4821ST LDS4821ST LDS4821ST LDS4821WW LDS4821WW <thld34www< th=""> <thld34wwwwwwwwwwwwwwwwwwwwwwwww< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thld34wwwwwwwwwwwwwwwwwwwwwwwww<></thld34www<>								
1 003i 00		LDS4821ST	LDS4821ST	LDS4821ST	LDS4821ST		LDS4821WW	LDS4821WW
2 003i 00	1					1		
3 003				003KW01086				
4 003k-W00961 003k-W01038 003k-W0158 4 003k-W00004 003k-W00059 5 003k-W00961 003k-W01104 003k-W01140 003k-W01540 6 003k-W00006 003k-W000063 7 003k-W00964 003k-W01141 003k-W01141 003k-W017978 8 003k-W000063 003k-W000063 003k-W000066 003k-W000011 003k-W000066 003k-W000011 003k-W000068 003k-W000012 003k-W000012 003k-W000068 003k-W000068 003k-W000012 003k-W000012 003k-W000070 003k-W000070 003k-W000070 003k-W000070 003k-W000070 003k-W000070 003k-W000070 003k-W000168 003k-W00070 003k-W00071 003k-W								
5 003k-W00962 003k-W01039 003k-W01122 003k-W01539 5 003k-W00005 003k-W00060 003k-W00060 003k-W00060 003k-W00060 003k-W00060 003k-W00060 003k-W00060 003k-W00060 003k-W00064 003k-W00064 003k-W00064 003k-W00066 003k-W000170 003k-W00067 003k-W00067 003k-W00070 003k-W00070 003k-W00070 13 003k-W00016 003k-W00070 14 003k-W00016 003k-W00070 16 003k-W00071 003k-W00072 10 003k-W00072 10 003k-W00072 10 003k-W00072 10 003k-W00072 10 003k-W00072 003k-W00072 <								003KW00058
© 003K-W00963 003K-W01040 003K-W01116 003K-W00977 7 003K-W00060 003K-W00063 © 003K-W00964 003K-W01041 003K-W01978 © 003K-W00096 003K-W00066 © 003K-W00966 003K-W01043 003K-W01121 003K-W01978 © 003K-W00009 003K-W00066 10 003K-W00966 003K-W01044 003K-W01978 © 003K-W00009 003K-W00066 11 003K-W00966 003K-W01046 003K-W01040 003K-W01986 11 003K-W00011 003K-W00066 12 003K-W001989 003K-W01046 003K-W01990 13 003K-W00012 003K-W00012 003K-W00071 15 003K-W001970 003K-W01049 003K-W01406 003K-W001099 16 003K-W000161 003K-W00071 16 003K-W001971 003K-W001051 003K-W0104108 003K-W000171 003K-W000171 003K-W000171 003K-W00073 17 003K-W001972 003K-W01054 003K-W01048 003K-W000160 003K-W00074 19 003K-W000160 003K-W00077 003K-W000						5	003KW00005	
7 003k-W00964 003k-W01041 003k-W01118 003k-W01978 8 003k-W000067 003k-W000061 8 003k-W00966 003k-W01042 003k-W011979 9 003k-W000060 003k-W000061 10 003k-W00966 003k-W01044 003k-W011401 003k-W001960 10 003k-W00010 003k-W000066 11 003k-W00966 003k-W01046 003k-W01986 11 003k-W00011 003k-W00066 12 003k-W00966 003k-W01047 003k-W01990 13 003k-W00013 003k-W000161 003k-W000161 003k-W00017 15 003k-W00015 003k-W00017 15 003k-W00015 003k-W00017 15 003k-W00016 003k-W00017 15 003k-W00016 003k-W00017 13 003k-W00016 003k-W00017 13 16 003k-W00017 003k-W00017 13 16 003k-W00017 003k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W00017 103k-W000166 003k-W000166								
B03K-W00966 003K-W01042 003K-W01121 003K-W00096 003K-W00009 003K-W00009 003K-W00009 003K-W00009 003K-W00009 003K-W00009 003K-W00006 003K-W00006 003K-W00006 003K-W00006 003K-W00006 003K-W00006 003K-W00006 003K-W00011 003K-W00006 003K-W00011 003K-W00006 003K-W00011 003K-W00006 003K-W00012 003K-W000071 003K-W00006 003K-W000190 13 003K-W00014 003K-W00069 003K-W00017 003K-W00017 003K-W00071 003K-W00072 1003K-W00071 003K-W00071 003K-W00071 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
9 003: 00	8	003KW00964	003KW01042		003KW01978			003KW00064
10 D034:W00966 0034:W01044 0034:W01960 10 0034:W00011 0034:W00066 11 0034:W00967 0034:W01045 0034:W01986 11 0034:W00012 0034:W00068 12 0034:W00968 0034:W01047 0034:W01986 12 0034:W00013 0034:W00013 0034:W00014 0034:W00098 14 0034:W00014 0034:W01092 14 0034:W00015 0034:W00071 10034:W00071 0034:W00071 10034:W00071 0034:W00071 10034:W00072 1034:W00072 1034:W00072 1034:W00072 1034:W00072 1034:W00073 1034:W00073 1034:W00074 10034:W00074 10034:W00074 10034:W00074 10034:W00074 10034:W00074 10034:W00074 10034:W00074 10034:W00077 10034:W00076 10034:W00076 10034:W00077 10034:W00077 10034:W00078			003KW01043	003KW01121	003KW01979	9	003KW00009	003KW00065
12 003K-W00968 003K-W01046 003K-W01986 12 003K-W00012 003K-W00068 14 003K-W00970 003K-W01047 003K-W01990 13 003K-W00071 003K-W00070 15 003K-W00971 003K-W01049 003K-W01405 003K-W01992 14 003K-W00075 003K-W00071 16 003K-W00971 003K-W01050 003K-W01040 003K-W02002 15 003K-W00075 003K-W00073 17 003K-W00973 003K-W01051 003K-W01048 003K-W02026 18 003K-W00078 003K-W00074 19 003K-W00975 003K-W01053 003K-W0127 19 003K-W00078 003K-W00078 20 003K-W00976 003K-W01056 003K-W01437 003K-W02030 21 003K-W00021 003K-W00078 21 003K-W00977 003K-W01056 003K-W01445 003K-W02032 23 003K-W00022 003K-W00080 23 003K-W00980 003K-W01057 003K-W02059 24 003K-W00024 003K-W00080 24 003K-W00881 003K-W0165 003K-W01450 003K-W02056 26 003K-W00025 0	10	003KW00966	003KW01044	003KW01401	003KW01980	10	003KW00010	003KW00066
13 003K-W00969 003K-W01047 003K-W01490 13 003K-W00013 003K-W00099 14 003K-W00970 003K-W01148 003K-W01490 003K-W00202 14 003K-W00071 003K-W00071 003K-W00071 003K-W00071 003K-W00071 003K-W00072 15 003K-W00972 003K-W01051 003K-W01209 16 003K-W00016 003K-W00072 18 003K-W00973 003K-W01051 003K-W01202 18 003K-W00071 003K-W00074 19 003K-W00975 003K-W01053 003K-W01226 003K-W00021 003K-W00077 20 003K-W00976 003K-W01055 003K-W01430 003K-W02028 20 003K-W00021 003K-W00079 21 003K-W00977 003K-W01056 003K-W01446 003K-W02031 22 003K-W00022 003K-W00080 23 003K-W01057 003K-W01446 003K-W02059 24 003K-W00024 003K-W00080 24 003K-W00981 003K-W01058 003K-W00025 003K-W00080 003K-W00080 003K-W00080 003K-W00080 <td>11</td> <td>003KW00967</td> <td>003KW01045</td> <td>003KW01402</td> <td>003KW01986</td> <td>11</td> <td>003KW00011</td> <td>003KW00067</td>	11	003KW00967	003KW01045	003KW01402	003KW01986	11	003KW00011	003KW00067
14 003kW00970 003kW01048 003kW01405 003kW01992 14 003kW00014 003kW00071 15 003kW00971 003kW01040 003kW01040 003kW01050 003kW01051 003kW00072 17 003kW00973 003kW01051 003kW01040 003kW02021 17 003kW00018 003kW00073 18 003kW00974 003kW01052 003kW01426 003kW02026 18 003kW00019 003kW00077 20 003kW00976 003kW01054 003kW01430 003kW02028 20 003kW00020 003kW00078 21 003kW00977 003kW01055 003kW01430 003kW02031 21 003kW00022 003kW00079 23 003kW00978 003kW01056 003kW01445 003kW02032 23 003kW00022 003kW00023 003kW00023 003kW00023 003kW00023 003kW00023 003kW00082 <	12	003KW00968	003KW01046	003KW01403	003KW01988	12	003KW00012	003KW00068
15 003kW00971 003kW01049 003kW01406 003kW0202 15 003kW00015 003kW00071 16 003kW00972 003kW01050 003kW01408 003kW02013 17 003kW00017 003kW00017 003kW00017 003kW00017 003kW00017 003kW00017 003kW00017 003kW00074 003kW00077 003kW00077 003kW00077 003kW00077 003kW00077 003kW00077 003kW00076 003kW00076 003kW00076 003kW01055 003kW01437 003kW02028 20 003kW00021 003kW00072 003kW00078 003kW01055 003kW01438 003kW02032 23 003kW00022 003kW00080 003kW00080 003kW00081 003kW00081 003kW00081 003kW00082 003kW00081 003kW00082 003kW00088 003kW00083 003kW00083 003kW00083 003kW00088 003kW00083 003kW00086 003kW0008	13	003KW00969	003KW01047	003KW01404	003KW01990	13	003KW00013	003KW00069
16 003kW00972 003kW01050 003kW01407 003kW02013 17 003kW00016 003kW00073 18 003kW00973 003kW01051 003kW0126 003kW00272 18 003kW00017 003kW00074 19 003kW00975 003kW01053 003kW0126 003kW02227 19 003kW00021 003kW00075 20 003kW00976 003kW01054 003kW01430 003kW02028 20 003kW00021 003kW00021 003kW00021 003kW00021 003kW00021 003kW00021 003kW00021 003kW00022 003kW00023 003kW00023 003kW00023 003kW00023 003kW00023 003kW00023 003kW00023 003kW00024 003kW00026 003kW00081 003kW00082 003kW00082 003kW00082 003kW00082 003kW00082 003kW00082 003kW00082 003kW00086	14	003KW00970	003KW01048	003KW01405	003KW01992	14	003KW00014	003KW00070
17 003kW00973 003kW01051 003kW01408 003kW02013 17 003kW00017 003kW00073 18 003kW00974 003kW01052 003kW01426 003kW02026 18 003kW00018 003kW00074 19 003kW00975 003kW01054 003kW01430 003kW02028 20 003kW00021 003kW00078 20 003kW00976 003kW01054 003kW01437 003kW02030 21 003kW00021 003kW00079 20 003kW00978 003kW01055 003kW01445 003kW02031 22 003kW00022 003kW00081 21 003kW00978 003kW01057 003kW01445 003kW02031 22 003kW00024 003kW00082 23 003kW00980 003kW01058 003kW01450 003kW02063 25 003kW00025 003kW00084 26 003kW00981 003kW01061 003kW01473 003kW02066 27 003kW00028 003kW00086 28 003kW00984 003kW01061 003kW01473 003kW02066 27 003kW00028 003kW00088 29 003kW01084 003kW01065 003kW01071 003kW00093	15	003KW00971	003KW01049	003KW01406	003KW02002	15	003KW00015	003KW00071
18 003k/W00974 003k/W01052 003k/W01426 003k/W02027 18 003k/W00018 003k/W00074 19 003k/W00975 003k/W01053 003k/W01430 003k/W02027 19 003k/W00019 003k/W00077 20 003k/W00977 003k/W01056 003k/W01438 003k/W02020 21 003k/W00021 003k/W00079 21 003k/W00977 003k/W01056 003k/W01445 003k/W02031 22 003k/W00022 003k/W00023 003k/W00023 003k/W00081 24 003k/W00980 003k/W01057 003k/W01446 003k/W02059 24 003k/W00022 003k/W00081 24 003k/W00981 003k/W01059 003k/W0165 003k/W02053 25 003k/W00026 003k/W00081 26 003k/W00982 003k/W01060 003k/W01450 003k/W02065 26 003k/W00027 003k/W00082 28 003k/W00984 003k/W01661 003k/W01474 003k/W02066 27 003k/W000290 003k/W00086 29 003k/W00986 003k/W0164 003k/W02067	16	003KW00972	003KW01050	003KW01407	003KW02009	16	003KW00016	003KW00072
19 003kW00975 003kW01053 003kW01430 003kW0227 19 003kW00097 003kW00077 20 003kW00976 003kW01054 003kW01437 003kW02028 20 003kW00021 003kW00077 21 003kW00977 003kW01056 003kW01445 003kW02031 22 003kW00022 003kW00080 23 003kW00979 003kW01057 003kW01445 003kW02032 23 003kW00022 003kW00081 24 003kW00980 003kW01059 003kW01450 003kW02053 24 003kW00025 003kW00083 25 003kW00980 003kW01060 003kW01451 003kW02065 26 003kW00025 003kW00084 27 003kW00983 003kW0162 003kW01473 003kW02066 27 003kW00029 003kW00087 29 003kW00986 003kW01474 003kW02068 29 003kW00089 003k	17	003KW00973	003KW01051	003KW01408	003KW02013	17	003KW00017	003KW00073
20 003kW00976 003kW01054 003kW01437 003kW02028 20 003kW00020 003kW00078 21 003kW00977 003kW01055 003kW01445 003kW02030 21 003kW00022 003kW00082 003kW00082 003kW00082 003kW00082 003kW00084 003kW00084 003kW00085 003kW00086 003kW00085 003kW00085 003kW00085 003kW00086 003kW00085 003kW00087 30 003kW00083 003kW00087 30 003kW00083 003kW00087 30 003kW00083 003kW00085 003kW00085 003kW00085 003kW00085 003kW00083 003kW00083 003kW00083	18	003KW00974	003KW01052	003KW01426	003KW02026	18	003KW00018	003KW00074
21 003kW00977 003kW01055 003kW0148 003kW02030 21 003kW00021 003kW00079 22 003kW00978 003kW01056 003kW01445 003kW02031 22 003kW00022 003kW00080 23 003kW00979 003kW01057 003kW01446 003kW02032 23 003kW00023 003kW00023 003kW00023 003kW00024 003kW00082 24 003kW00980 003kW01069 003kW01450 003kW02063 25 003kW00026 003kW00082 25 003kW00982 003kW01060 003kW01451 003kW02065 26 003kW00026 003kW00084 27 003kW00983 003kW01061 003kW01473 003kW02066 27 003kW00028 003kW00086 29 003kW00986 003kW01063 003kW01475 003kW02068 29 003kW00028 003kW00088 003kW00088 003kW00089 003kW0	19	003KW00975	003KW01053	003KW01430	003KW02027	19	003KW00019	003KW00077
22 003kW00978 003kW01976 003kW01976 003kW01977 003kW01445 003kW02032 23 003kW00022 003kW00081 24 003kW00979 003kW01057 003kW01446 003kW02032 23 003kW00023 003kW00024 003kW00081 25 003kW00980 003kW01059 003kW01450 003kW02065 26 003kW00022 003kW00082 26 003kW00983 003kW01060 003kW01451 003kW02065 26 003kW00027 003kW00086 27 003kW00983 003kW01061 003kW01452 003kW02066 27 003kW00028 003kW00086 29 003kW00984 003kW01063 003kW01475 003kW02068 29 003kW00029 003kW00087 003kW00985 003kW01064 003kW01476 003kW00030 003kW00083 003kW00083 003kW00093	20	003KW00976	003KW01054	003KW01437	003KW02028	20	003KW00020	003KW00078
23 003kW00979 003kW01057 003kW01446 003kW02032 23 003kW00023 003kW00023 24 003kW00980 003kW01058 003kW01449 003kW02059 24 003kW00024 003kW00082 25 003kW00981 003kW01059 003kW01065 026 003kW00026 003kW00083 26 003kW00981 003kW01060 003kW01451 003kW02066 27 003kW00026 003kW00086 27 003kW00984 003kW01062 003kW01452 003kW02066 27 003kW00029 003kW00086 29 003kW00985 003kW01062 003kW01473 003kW02068 29 003kW00029 003kW00086 20 003kW00986 003kW01065 003kW01475 003kW02079 30 003kW00030 003kW00088 31 003kW00987 003kW01067 003kW01477 32 003kW00030 003kW00090 32 003kW01067 003kW01478 33 003kW00032 003kW00090 33 003kW01099 003kW01070 003kW01483	21	003KW00977	003KW01055	003KW01438	003KW02030	21	003KW00021	003KW00079
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43 003KW01011 003KW01077 003KW01499 43 003KW00045 003KW00101 44 003KW01013 003KW01078 003KW01500 44 003KW00046 003KW00102 45 003KW01015 003KW01079 003KW01525 45 003KW00047 003KW0103 46 003KW01024 003KW01080 003KW01526 46 003KW00048 003KW00104 47 003KW01028 003KW01081 003KW01527 47 003KW00049 003KW00105 48 003KW01029 003KW01082 003KW01528 48 003KW00050 003KW00106 49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW00107								
44 003KW01013 003KW01078 003KW01500 44 003KW00046 003KW0102 45 003KW01015 003KW01079 003KW01525 45 003KW00047 003KW0103 46 003KW01024 003KW01080 003KW01526 46 003KW00048 003KW0104 47 003KW01028 003KW01081 003KW01527 47 003KW00049 003KW0105 48 003KW01029 003KW01082 003KW01528 48 003KW00050 003KW0106 49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW00107								
45 003KW01015 003KW01079 003KW01525 45 003KW00047 003KW0103 46 003KW01024 003KW01080 003KW01526 46 003KW00048 003KW0104 47 003KW01028 003KW01081 003KW01527 47 003KW00049 003KW0105 48 003KW01029 003KW01082 003KW01528 48 003KW00050 003KW0106 49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW0107								
46 003KW01024 003KW01080 003KW01526 46 003KW00048 003KW0104 47 003KW01028 003KW01081 003KW01527 47 003KW00049 003KW0105 48 003KW01029 003KW01082 003KW01528 48 003KW00050 003KW0106 49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW0107								
47 003KW01028 003KW01081 003KW01527 47 003KW00049 003KW0105 48 003KW01029 003KW01082 003KW01528 48 003KW00050 003KW00106 49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW00107								
48 003KW01029 003KW01082 003KW01528 48 003KW00050 003KW00106 49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW0107								
49 003KW01032 003KW01083 003KW01529 49 003KW00051 003KW00107								
50 003KW01033 003KW01084 003KW01530 50 003KW00052 003KW00108								
	_ 50	UU3KW01033	003KW01084	003KW01530		50	003KVV00052	003KW00108

Appendix B. EAI Applicable Serial No. List(3/4)

* In the list, It is included with some units having good filter Asm.

You don't need to change filter assembly, if there is a guide rib in the filter Asm.

* 003KW**XXXXX is same as 003KWXXXXX and 004KW**XXXXX is same as 004KWXXXXX

	LDS4821WW	LDF6920BB		LDF6920ST	LDF6920ST	LDF6920ST	LDF6920ST
	003KW00109	003KW00287		003KW00141	003KW00191	003KW00241	003KW00351
	003KW00110	003KW00325		003KW00142	003KW00192	003KW00242	003KW00352
3	003KW00111	003KW00328		003KW00143	003KW00193	003KW00243	003KW00401
4	003KW00112	003KW00331	-	003KW00144	003KW00194	003KW00244	003KW00402
	003KW00113	003KW00332		003KW00145	003KW00195	003KW00245	003KW00403
	003KW00114	003KW00335		003KW00146	003KW00196	003KW00246	003KW00404
7	003KW00115	003KW00336	7	003KW00147	003KW00197	003KW00247	003KW00405
8	003KW00116	003KW00383	8	003KW00148	003KW00198	003KW00248	003KW00406
9	003KW00119	003KW00420	9	003KW00149	003KW00199	003KW00249	003KW00407
10	003KW00120		10	003KW00150	003KW00200	003KW00250	003KW00408
11	003KW00121		11	003KW00151	003KW00201	003KW00251	003KW00437
12	003KW00122		12	003KW00152	003KW00202	003KW00252	003KW00441
13	003KW00123		13	003KW00153	003KW00203	003KW00253	003KW00445
14	003KW00124		14	003KW00154	003KW00204	003KW00254	003KW00446
15	003KW00125		15	003KW00155	003KW00205	003KW00255	003KW00447
16	003KW00126		16	003KW00156	003KW00206	003KW00256	003KW00448
	003KW00127			003KW00157	003KW00207	003KW00257	003KW00449
	003KW00128			003KW00158	003KW00208	003KW00258	003KW00450
	003KW00129			003KW00159	003KW00209	003KW00259	003KW00451
	003KW00130			003KW00160	003KW00210	003KW00260	003KW00452
	003KW00131			003KW00161	003KW00211	003KW00261	003KW00453
	003KW00132			003KW00162	003KW00212	003KW00262	003KW00454
	003KW00133			003KW00163	003KW00213	003KW00263	003KW00462
	003KW00134			003KW00164	003KW00214	003KW00264	003KW00464
	003KW00135			003KW00165	003KW00215	003KW00265	003KW00466
	003KW00136			003KW00166	003KW00216	003KW00266	003KW00468
	003KW00137			003KW00167	003KW00217	003KW00267	003KW00469
	003KW00138			003KW00168	003KW00217	003KW00268	003KW00405
	003KW00139			003KW00169	003KW00219	003KW00269	003KW00472
	003KW00140			003KW00170	003KW00220	003KW00289	003KW00472
	003KW00488			003KW00170	003KW00220	003KW00270	003KW00473
	003KW00522			003KW00171	003KW00221	003KW00272	003KW00474
	003KW00522			003KW00172	003KW00222	003KW00272	003KW00475
	003KW00525			003KW00173	003KW00223	003KW00273	003KW00478
				003KW00174		003KW00274	
	003KW00527 003KW00529			003KW00175	003KW00225 003KW00226		003KW00495
						003KW00276	003KW00501
	003KW00531			003KW00177	003KW00227	003KW00277	003KW00503
	003KW00533			003KW00178	003KW00228	003KW00278	003KW00505
	003KW00535			003KW00179	003KW00229	003KW00279	003KW00507
	003KW00559			003KW00180	003KW00230	003KW00280	003KW00517
	003KW00587			003KW00181	003KW00231	003KW00285	003KW00518
42				003KW00182	003KW00232	003KW00286	003KW00519
43				003KW00183	003KW00233	003KW00287	003KW00520
44				003KW00184	003KW00234	003KW00288	003KW00524
45				003KW00185	003KW00235	003KW00345	003KW00532
46				003KW00186	003KW00236	003KW00346	003KW00534
47				003KW00187	003KW00237	003KW00347	003KW00536
48				003KW00188	003KW00238	003KW00348	003KW00537
49				003KW00189	003KW00239	003KW00349	003KW00538
50			50	003KW00190	003KW00240	003KW00350	003KW00539

Appendix B. EAI Applicable Serial No. List(4/4)

* In the list, It is included with some units having good filter Asm.

You don't need to change filter assembly, if there is a guide rib in the filter Asm.

* 003KW**XXXXX is same as 003KWXXXXX and 004KW**XXXXX is same as 004KWXXXXX

							1
	LDF6920ST	LDF6920ST		LDF7932ST	LDF7932ST	LDF7932ST	LDF7932ST
1	003KW00540	003KW00925	1	003KW00329	003KW00481	003KW00531	003KW00590
2	003KW00541	003KW00930	2	003KW00372	003KW00482	003KW00532	003KW00591
3	003KW00542	003KW00931	3	003KW00373	003KW00483	003KW00533	003KW00592
4	003KW00543	003KW00953	4	003KW00374	003KW00484	003KW00534	003KW00595
5	003KW00544	003KW00955	5	003KW00376	003KW00485	003KW00535	003KW00596
6	003KW00546	003KW00957	6	003KW00380	003KW00486	003KW00536	003KW00599
7	003KW00548	003KW00959	7	003KW00384	003KW00487	003KW00537	003KW00746
8	003KW00557	003KW00981	8	003KW00436	003KW00488	003KW00539	003KW00748
9	003KW00558	003KW00983	9	003KW00437	003KW00489	003KW00540	003KW00773
10	003KW00559	003KW00984	10	003KW00438	003KW00490	003KW00541	003KW00795
11	003KW00560	003KW00986	11	003KW00439	003KW00491	003KW00542	003KW00802
12	003KW00579	003KW00990	12	003KW00440	003KW00492	003KW00543	003KW00812
13	003KW00581	003KW00992	13	003KW00443	003KW00493	003KW00544	003KW00828
14	003KW00582	003KW01043	14	003KW00444	003KW00494	003KW00545	003KW00832
15	003KW00583	003KW01045	15	003KW00445	003KW00495	003KW00547	003KW00866
16	003KW00584	003KW01062	16	003KW00446	003KW00496	003KW00548	003KW01098
17	003KW00590	003KW01063	17	003KW00447	003KW00497	003KW00549	
18	003KW00591	003KW01064	18	003KW00448	003KW00498	003KW00550	
19	003KW00592	003KW01065	19	003KW00449	003KW00499	003KW00551	
20	003KW00595	003KW01066	20	003KW00450	003KW00500	003KW00552	
	003KW00596	003KW01067	21	003KW00451	003KW00501	003KW00553	
	003KW00597	003KW01068		003KW00452	003KW00502	003KW00554	
	003KW00598	003KW01081	23	003KW00453	003KW00503	003KW00556	
	003KW00599	003KW01082		003KW00454	003KW00504	003KW00557	
	003KW00600	003KW01083		003KW00455	003KW00505	003KW00558	
	003KW00605	003KW01084		003KW00456	003KW00506	003KW00559	
	003KW00657	003KW01126		003KW00457	003KW00507	003KW00561	
	003KW00658	003KW01134		003KW00458	003KW00508	003KW00562	
	003KW00667	003KW01157		003KW00459	003KW00509	003KW00563	
	003KW00668	003KW01233		003KW00460	003KW00510	003KW00564	
	003KW00675			003KW00461	003KW00511	003KW00565	
	003KW00676			003KW00462	003KW00512	003KW00566	
	003KW00677			003KW00463	003KW00513	003KW00567	
	003KW00678			003KW00464	003KW00514	003KW00568	
	003KW00679			003KW00465	003KW00515	003KW00569	
	003KW00680			003KW00466	003KW00516	003KW00570	<u> </u>
	003KW00683			003KW00467	003KW00517	003KW00571	1
	003KW00684			003KW00468	003KW00518	003KW00572	1
	003KW00864			003KW00469	003KW00519	003KW00573	1
	003KW00866			003KW00470	003KW00520	003KW00574	
	003KW00868			003KW00471	003KW00521	003KW00575	
	003KW00896			003KW00472	003KW00522	003KW00576	
	003KW00898			003KW00473	003KW00523	003KW00577	
	003KW00900			003KW00474	003KW00524	003KW00578	
	003KW00902			003KW00475	003KW00525	003KW00579	
	003KW00902			003KW00475	003KW00526	003KW00580	
	003KW00914			003KW00477	003KW00527	003KW00581	
	003KW00920			003KW00477	003KW00528	003KW00582	
	003KW00921			003KW00479	003KW00529	003KW00587	
	003KW00921			003KW00479	003KW00529	003KW00588	
	00055000924		1 20	000589900400	000580000000	0000000000	

Appendix C. ECI Applicable Serial No. List(1/1)

 In the list, It is included with some units having good filter Asm. You don't need to change filter assembly, if there is a guide rib in the filter Asm.
 003KW**XXXXX is same as 003KWXXXXX and 004KW**XXXXX is same as 004KWXXXXX

	LDS4821BB	LDS4821ST	LDS4821WW	LDF7920BB	LDF7920ST	LDF7932ST	LDF7932ST
1	003KW00046	003KW00145	003KW00006	003KW00007	003KW00430	003KW00003	004KW00001
2	003KW00048	003KW000145	003KW00008	003KW000043	003KW00430	003KW000054	004KW000001
	003KW00050						
3		003KW00673	003KW00009	003KW00044	003KW00442	003KW00055	004KW00003
4		004KW00011	003KW00010	003KW00045	003KW00443	003KW00056	004KW00004
5		004KW00017	003KW00013	003KW00046	003KW00444	003KW00057	004KW00005
6		004KW00018	003KW00014	003KW00047	003KW00446	003KW00058	004KW00006
7		004KW00021	003KW00015	003KW00048	003KW00450	003KW00059	004KW00007
8		004KW00022	003KW00016	003KW00049	003KW00453	003KW00060	004KW00008
9		004KW00023	003KW00017	003KW00050	003KW00454	003KW00061	004KW00009
10		004KW00024	003KW00018	003KW00051	003KW00457	003KW00062	004KW00010
11		004KW00027	003KW00019	003KW00052	003KW00459	003KW00063	004KW00011
12		004KW00029	003KW00020	003KW00053	003KW00460	003KW00064	004KW00012
13		004KW00035	003KW00021	003KW00054	003KW00469	003KW00065	004KW00013
14		004KW00073	003KW00022	003KW00055	003KW00470	003KW00074	004KW00014
15		004KW00075	003KW00023	003KW00056	003KW00471	003KW00075	004KW00015
16		004KW00077	003KW00024	003KW00057	003KW00472	003KW00076	004KW00016
17		004KW00079	003KW00027	003KW00058	003KW00473	003KW00077	004KW00017
18			003KW00028	003KW00059	003KW00474	003KW00078	004KW00018
19			003KW00045	003KW00060	003KW00475	003KW00079	004KW00019
20			003KW00046	003KW00061	003KW00476	003KW00080	004KW00020
21			003KW00047	003KW00062	003KW00485	003KW00081	004KW00021
22			003KW00048	003KW00063	003KW00486	003KW00082	004KW00022
23			003KW00057	003KW00064	003KW00487	003KW00083	004KW00023
24			003KW00060	003KW00065	003KW00489	003KW00084	004KW00024
25			003KW00061	003KW00066	003KW00490	003KW00085	004KW00025
26			003KW00063	003KW00067	003KW00491	003KW00086	004KW00026
27			003KW00064	003KW00068	003KW00493	003KW00087	004KW00027
28			003KW00067	003KW00069	003KW00495	003KW00088	004KW00028
29			003KW00071	003KW00070	003KW00496	003KW00089	004KW00029
30			003KW00076	003KW00071	003KW00497	003KW00090	004KW00030
31			003KW00081	003KW00072	003KW00498	003KW00091	004KW00031
32			003KW00082	003KW00073	003KW00499	003KW00092	004KW00032
33			003KW00083	003KW00074	003KW00500	003KW00093	004KW00033
34			003KW00084	003KW00075	003KW00503	003KW00094	004KW00034
35			003KW00085	003KW00076	003KW00504	003KW00095	004KW00035
36			003KW00086	003KW00077	003KW00506	003KW00096	004KW00036
37			003KW00090	003KW00078	003KW00507	003KW00097	004KW00037
38			003KW00093	003KW00078	003KW00511	003KW00120	004KW00038
39			003KW00093	003KW00080	003KW00515	003KW00120	004KW00039
40			003KW00094	003KW00081	003KW00515	003KW00129	004KW000039
40				003KW00082	003KW00517		
41			003KW00097 003KW00101	003KW00082		003KW00138	004KW00041
					003KW00519	003KW00139	004KW00042
43			003KW00107	003KW00084	003KW00520		
44			003KW00108		003KW00521		
45			003KW00125		003KW00522		
46			003KW00126		003KW00523		
47			003KW00129		003KW00524		
48			003KW00132		003KW00547		
49			003KW00136		003KW01025		
50			003KW00137		003KW01122		
51			003KW00138		003KW01142		
52			003KW00139		003KW01143		
53			003KW00466		003KW01160		
54			003KW00470		003KW01168		
55			003KW00471				
56			003KW00472				
57			003KW00473				
58			003KW00477				
59			003KW00541				
60			003KW00542				
61			003KW00543				
62			003KW00544				