# FREEZER/REFRIGERATOR

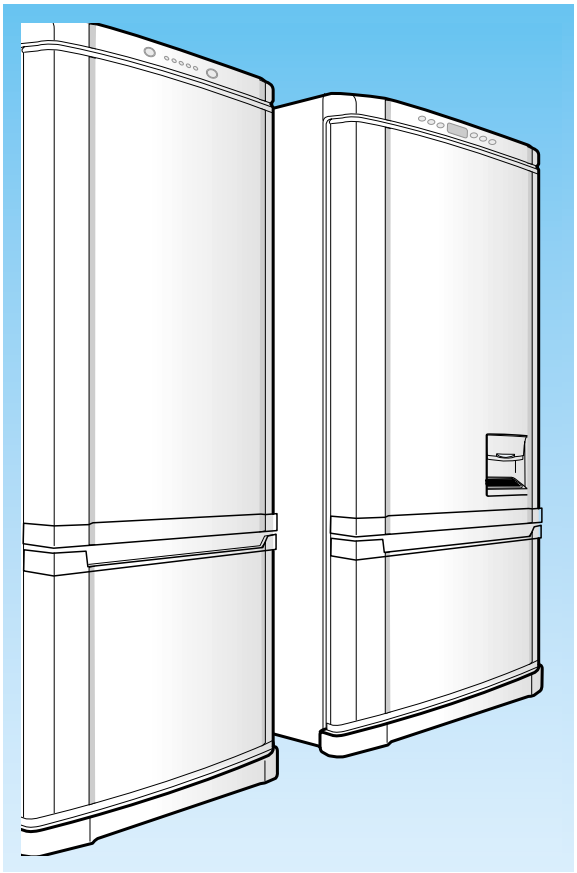
**Model : RL39WB**
**RL36EB/RL39EB**
**RL36SB/RL39SB**

**For the latest parts information, Please access to our service web site (http://www.e4buyer.com/refrigerator)**

HFC FREE
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# SERVICE Manual

## FREEZER / REFRIGERATOR



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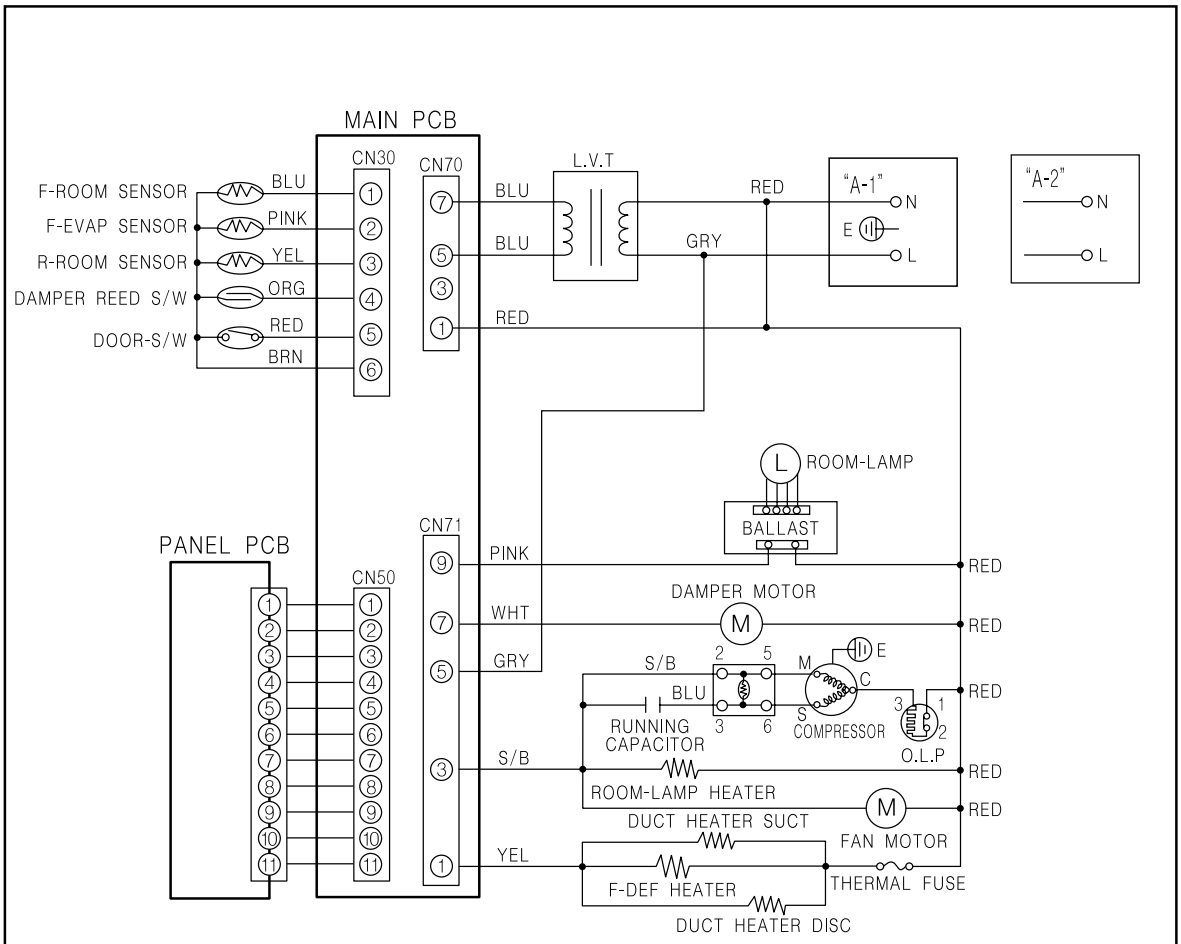
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# 1. Circuit Diagram

## 1-1. ELECTRONIC MODEL for Fluorescent Lamp Option




"A-1" "B-1": WIT EARTH
"A-2" "B-2": WITHOUT EARTH

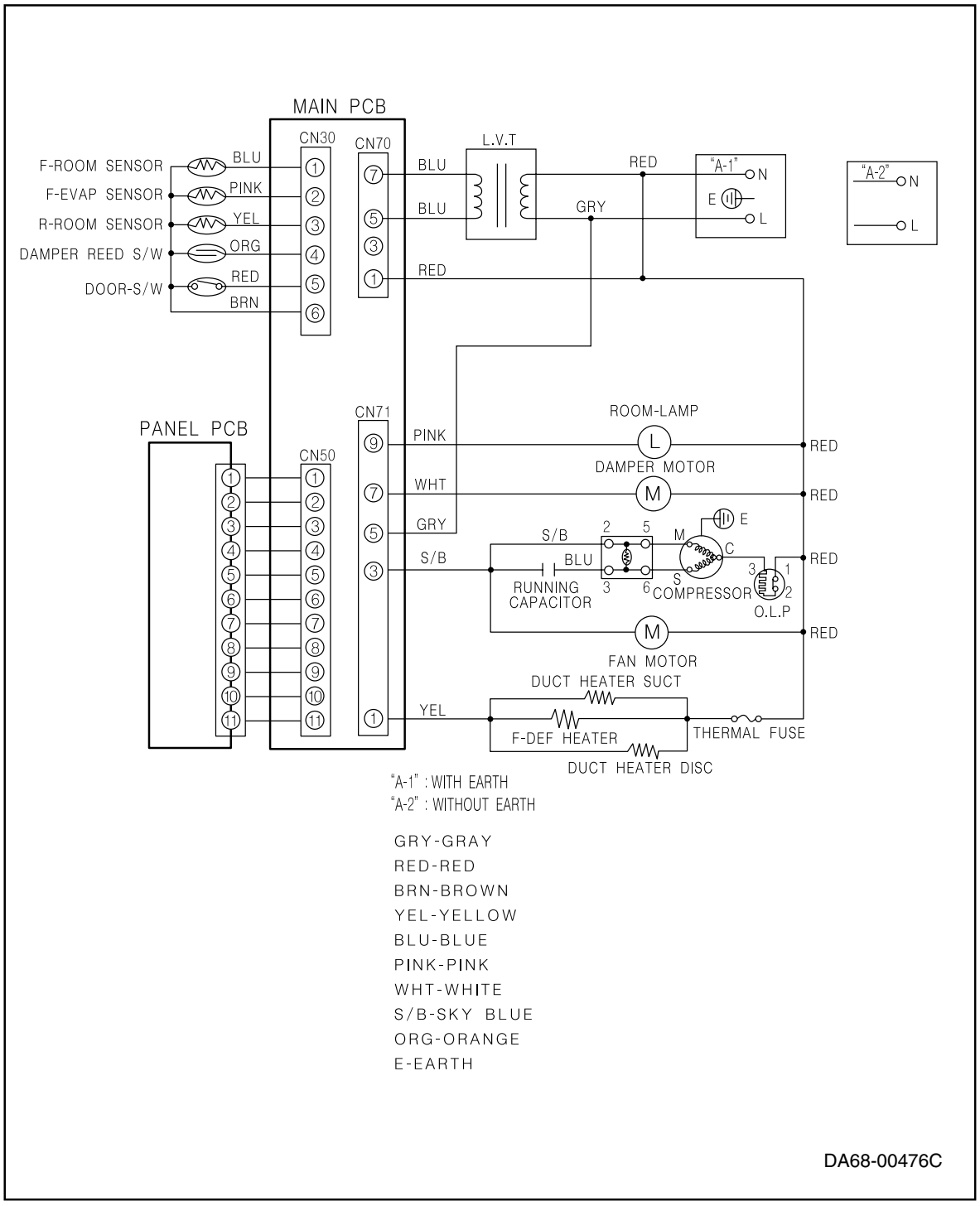
GRY-GRAY
RED-RED
BRN-BROWN
YEL-YELLOW
BLU-BLUE
PINK-PINK
WHT-WHITE
S/B-SKY BLUE
ORG-ORANGE
E-EARTH

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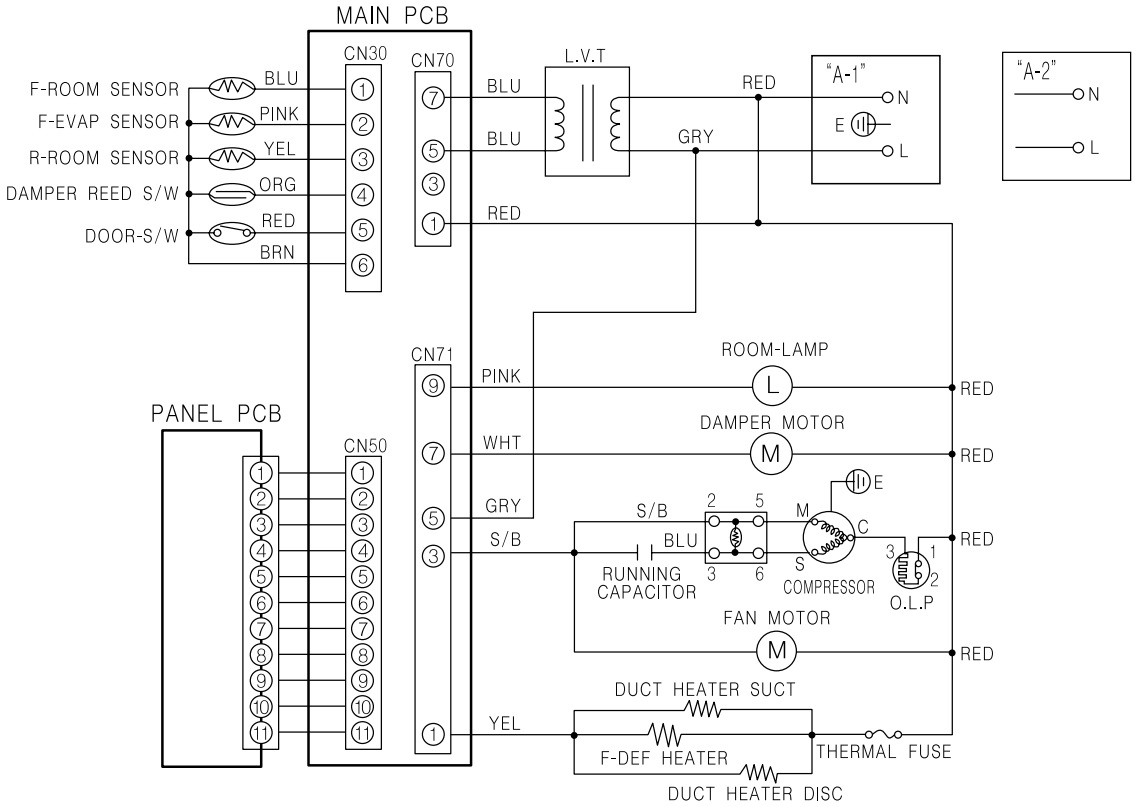
## 1-2. ELECTRONIC MODEL for Incandescent Lamp Option






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## 1-3. SEMI-ELECTRONIC MODEL




"A-1" : WITH EARTH
"A-2" : WITHOUT EARTH

GRY-GRAY
RED-RED
BRN-BROWN
YEL-YELLOW
BLU-BLUE
PINK-PINK
WHT-WHITE
S/B-SKY BLUE
ORG-ORANGE
E-EARTH

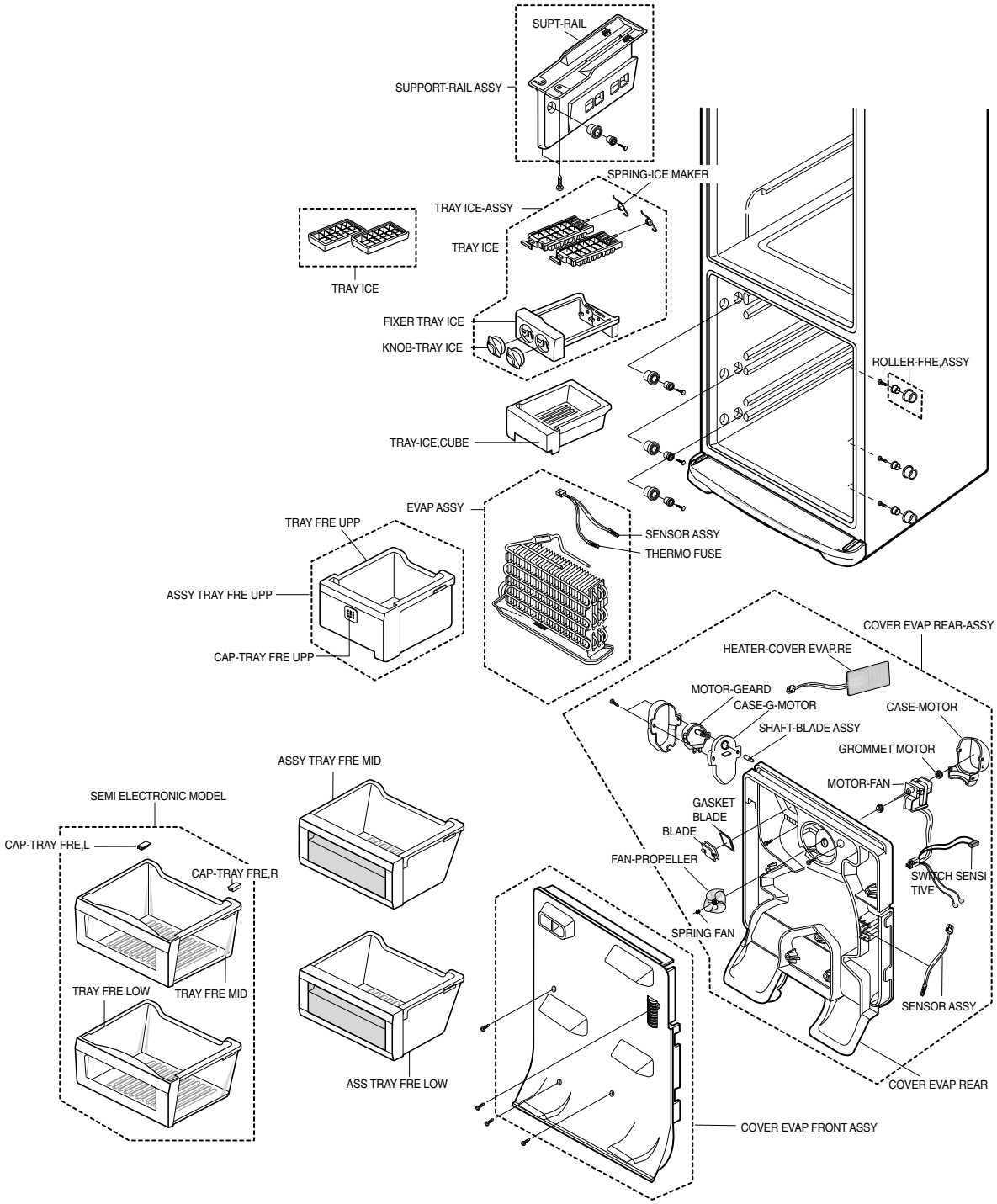
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# 2. Exploded View

## 2-1. Freezer Compartment






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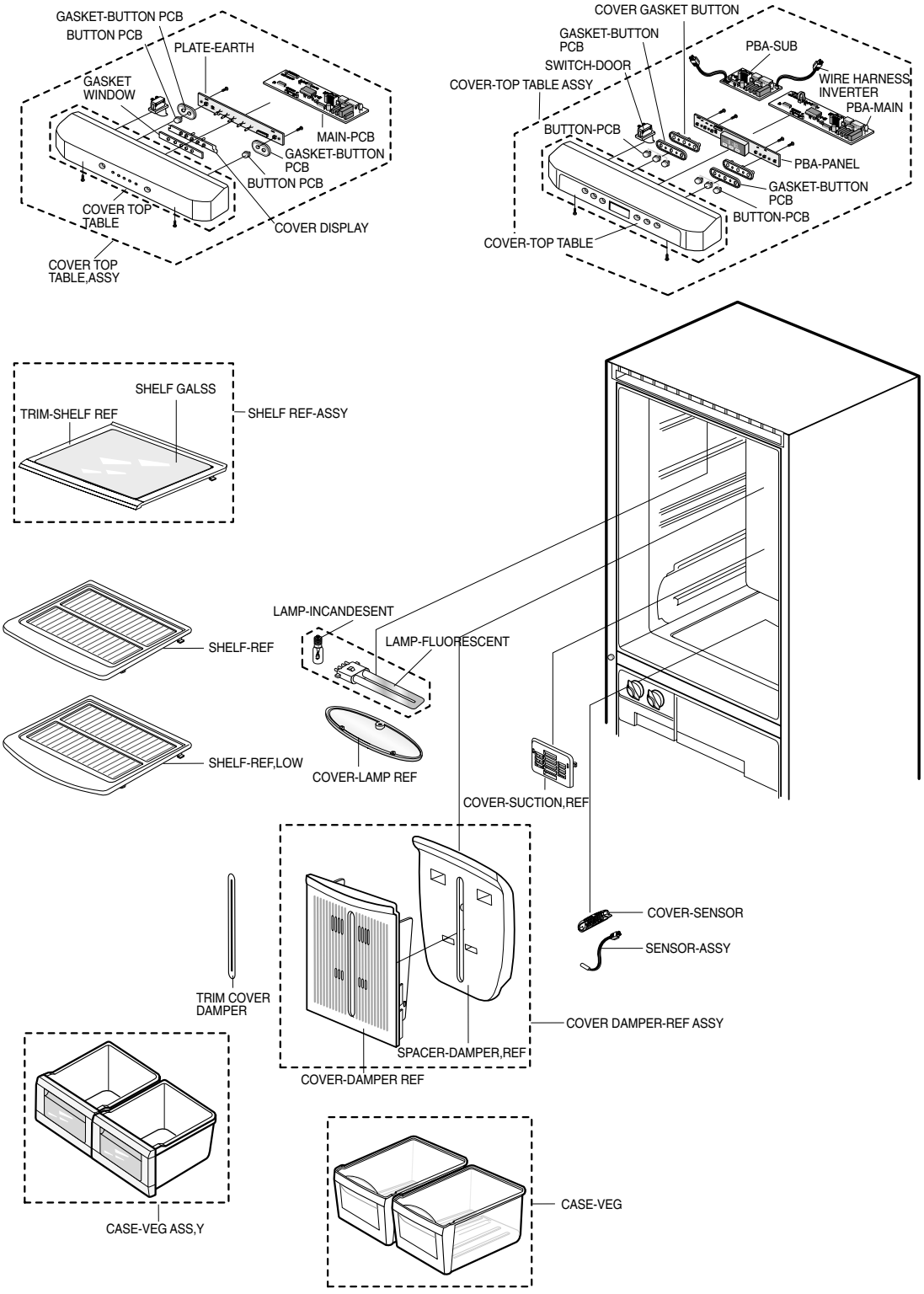
## ■ Freezer List

| NO | CODE-NO | ITEM | SPECIFICATION | OPTION | | |
|---|---|---|---|---|---|---|
| | | | | RL36/39E | RL39W | RL36/39S |
| 1 | DA63-00395C | COVER EVAP-FRONT,ASSY | PP,T2.0,TWIST | ● | ● | |
| | DA63-00395D | | PP,T2.0,SEMI | | | ● |
| | DA63-00395E | | PP(NTR),T2.0,TWIST | ● | ● | |
| | DA63-00395F | | PP(NTR),T2.0,SEMI | | | ● |
| 2 | DA66-00093A | ROLLER-FRE-ASSY | POM,SR-35 | ● | ● | ● |
| 3 | DA97-01392A | ASSY TRAY-FRE,LOW | PREMIUM | ● | ● | |
| 4 | DA97-01457A | ASSY TRAY-FRE,LOW | SEMI | | | ● |
| 5 | DA97-01393A | ASSY TRAY-FRE,MID | PREMIUM | ● | ● | |
| 6 | DA97-01456A | ASSY TRAY-FRE,MID | SEMI | | | ● |
| 7 | DA97-01394A | ASSY TRAY-FRE,UPP | HIPS | ● | ● | |
| 8 | DA97-01401A | ASSY TRAY-ICE | PREMIUM | ● | ● | |
| 9 | DA97-01434A | ASSY-SUPT RAIL | PREMIUM | ● | ● | |
| 10 | DA63-01708A | TRAY ICE CUBE | HIPS | ● | ● | |
| 11 | DA96-00024A | ASSY-VAP | 127V,310W | ● | ● | ● |
| | DA96-00024B | | 240V,310W | ● | ● | ● |
| | DA96-00024C | | 220V,310W | ● | ● | ● |
| 12 | DA32-10105Q | SENSOR ASSY | 502AT,-10~35,5V | ● | ● | ● |
| 13 | DA47-10162F | THERMO FUSE | 250V,10A | ● | ● | ● |
| 14 | DA63-00396R | COVER EVAP-REAR,ASSY | 230~234V/50Hz | ● | ● | ● |
| | DA63-00396S | | 220V/50Hz | ● | ● | ● |
| | DA97-00150A | | 127V/60Hz | ● | ● | ● |
| 15 | DA31-00002P | MOTOR FAN | 230~240V/50Hz | ● | ● | ● |
| | DA31-00002U | | 220V/50Hz | ● | ● | ● |
| | DA31-00002X | | 127V/60Hz | ● | ● | ● |
| 16 | DA31-00019A | FAN-PROPELLER | NTR | ● | ● | ● |
| 17 | DA31-00026A | BLADE | PC,NTR,SR-32,35 | ● | ● | ● |
| 18 | DA31-10107C | MOTOR GEAR | M2LA49Z,220~240V | ● | ● | ● |
| | DA31-10107B | | M2BC59ZR12,110V | ● | ● | ● |
| 19 | DA34-10125B | SWITCH SENSITIVE | 5V,Black | ● | ● | ● |
| 20 | DA47-00056A | HEATER-COVER EVAP.RE | 240V,7W | ● | ● | ● |
| | DA47-00056B | | 220V,7W | ● | ● | ● |
| | DA47-00056C | | 127V,7W | ● | ● | ● |
| 21 | DA61-00081A | CASE-MOTOR | PP,NTR | ● | ● | ● |
| 22 | DA61-00117A | CASE-G-MOTOR | PP,NTR | ● | ● | ● |
| 23 | DA61-20128A | SPRING ETC-FAN | STS27,PI7.8,ID1.0 | ● | ● | ● |
| 24 | DA63-00237A | COVER-EVAP REAR | PP | ● | ● | ● |
| 25 | DA63-00359A | GASKET-BLADE | SILICON,NTR | ● | ● | ● |
| 26 | DA66-00095A | SHAFT-BLADE ASSY | POM | ● | ● | ● |
| 27 | DA63-00771A | GROMMET-FAN MOTOR | NBR,BLACK | ● | ● | ● |
| 28 | DA70-00222B | PLATE-COVER RE | SAZCC,T0.4 | ● | ● | ● |



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## 2-2. Refrigerator Compartment






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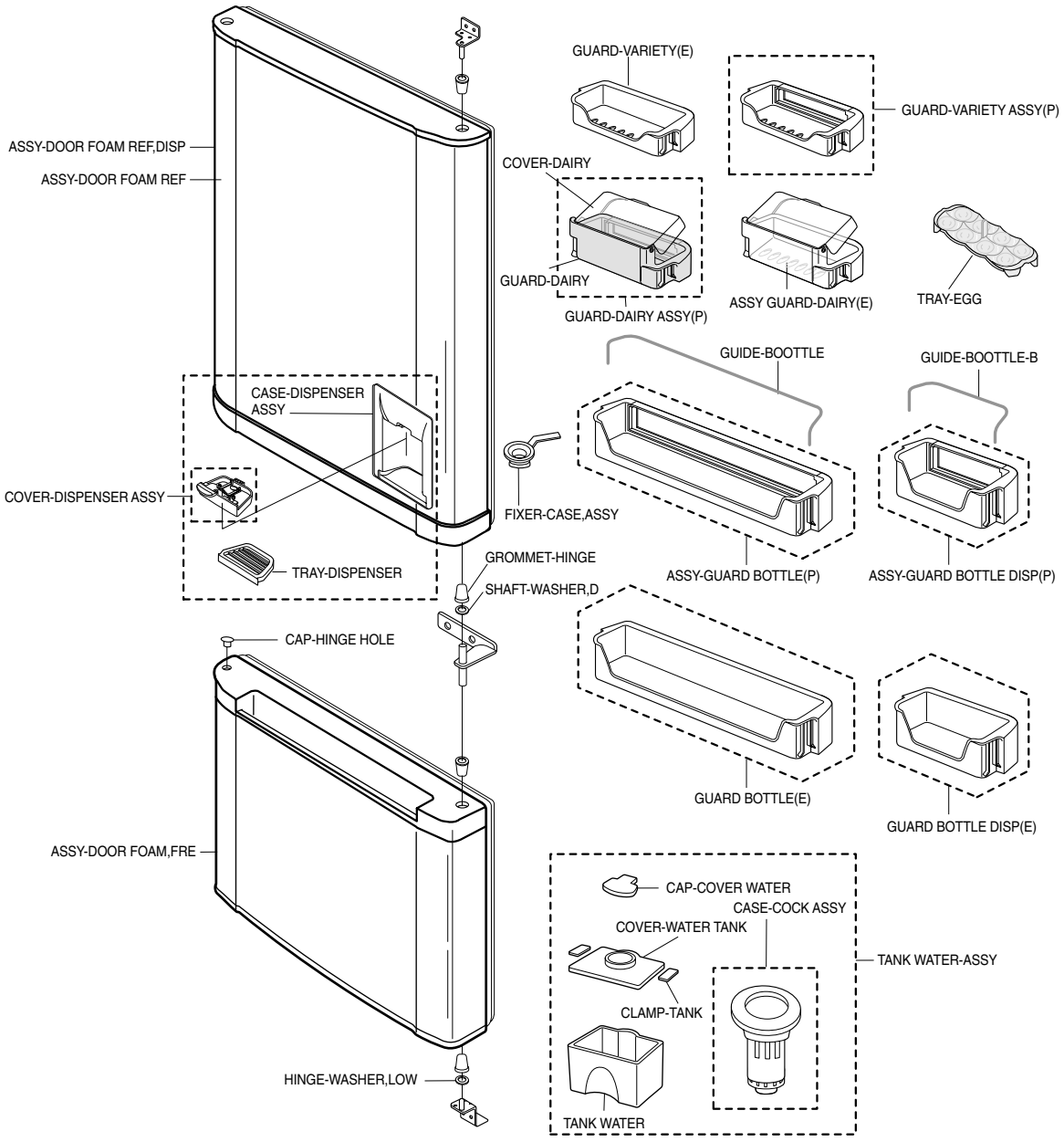
## ■ Refrigerator List

| NO | CODE-NO | ITEM | SPECIFICATION | OPTION | | |
|---|---|---|---|---|---|---|
| | | | | RL36/39E | RL39W | RL36/39S |
| 1 | DA97-01389A | ASSY COVER DAMPER-REF | SC-97527R | ● | ● | ● |
| 2 | DA64-00951A | TRIM-COVER DAMPER | HIPS | ● | ● | ● |
| 3 | DA97-01387A | ASSY CASE VEG | PREMIUM | ● | ● | |
| 4 | DA61-01314A | CASE VEG | GPPS(HF-2660),NTR | | | ● |
| 5 | DA97-01409A | ASSY SHELF REF | GLASS,3-PC,VEG | ● | ● | |
| 6 | DA67-00207B | SHELF REF | GPPS(HF-2660),NTR | | | ● |
| 7 | DA67-00206B | SHELF REF,LOW | GPPS(HF-2660),NTR | | | ● |
| 8 | DA97-01385A | ASSY COVER-TOP,TABLE | PREMIUM,SNOW WHITE | ● | ● | |
| | DA97-01385B | | PREMIUM,MIST SILVER | ● | ● | |
| 9 | DA34-00015C | SWITCH DOOR | 250VAC,0.24A | ● | ● | |
| 10 | DA39-00119C | WIRE HARNESS-D00R | 240V | ● | ● | |
| 11 | DA41-00018C | PBA MAIN | FR-1,250*55 | ● | ● | |
| 12 | DA41-00172A | PBA-DISPLAY | 258*30 | ● | ● | |
| 13 | DA63-01732A | COVER TOP-TABLE | ABS(VT-0823),SNOW WHITE | ● | ● | |
| | DA63-01732B | | ABS(VT-0823),MIST SILVER | ● | ● | |
| 14 | DA63-01734A | COVER DISPLAY | ABS | ● | ● | |
| 15 | DA63-01755A | GASKET-BUTTON,PCB | SILICONE,BLACK | ● | ● | |
| 16 | DA63-01776A | COVER-GASKET BUTTON | HIPS(HG-1760SF) | ● | ● | |
| 17 | DA64-00963A | BUTTON-PCB | ABS(HG-0760),WHITE | ● | ● | |
| 18 | DA97-01384A | ASSY COVER-TOP,TABLE | SEMI,SNOW WHITE | | | ● |
| | DA97-01384B | | SEMI,MIST SILVER | | | ● |
| 19 | DA34-00015C | SWITCH DOOR | 250VAC,0.24A | | | ● |
| 20 | DA39-00119C | WIRE HARNESS-D00R | 240V | | | ● |
| 21 | DA41-00042C | PBA MAIN | CABINET,FR-1,248*55 | | | ● |
| 22 | DA41-00081A | PBA PANEL ASSY | SEMI | | | ● |
| 23 | DA41-00043A | PBA PANEL | SEMI | | | ● |
| 24 | DA70-00208A | PLATE EARTH | SBHG1,T0.8 | | | ● |
| 25 | DA63-01754A | COVER TOP-TABLE | ABS,SNOW WHITE | | | ● |
| | DA63-01754B | | ABS,MIST SILVER | | | ● |
| 26 | DA63-00444A | GASKET-WINDOW | NBR | | | ● |
| 27 | DA63-01750A | GASKET-BUTTON,PCB | SILICONE | | | ● |
| 28 | DA64-00959A | BUTTON-PCB | ABS,WHITE,SEMI | | | ● |
| 29 | DA63-00235A | COVER-LAMP REF | PP(BJ-730T4),NTR | ● | ● | ● |
| | DA63-00235B | | PP(BJ-730T4),LIGHT BLUE | ● | ● | ● |
| | DA63-00235C | | PP(RJ-700) | ● | ● | ● |
| 30 | DA32-10105B | SENSOR ASSY | 502AT,-10~35,5V | ● | ● | ● |
| 31 | 4713-001140 | LAMP-INCANDESCENT | 240V,25W,BLU,25x | ● | ● | ● |
| | 4713-001141 | | 130V,25W,BLU,25x | ● | ● | ● |
| 32 | DA63-00234A | COVER-SUCTION REF | PP,WHITE | ● | ● | ● |
| 33 | DA63-10467A | COVER-SENSOR | HIPS | ● | ● | ● |



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## 2-3. Door






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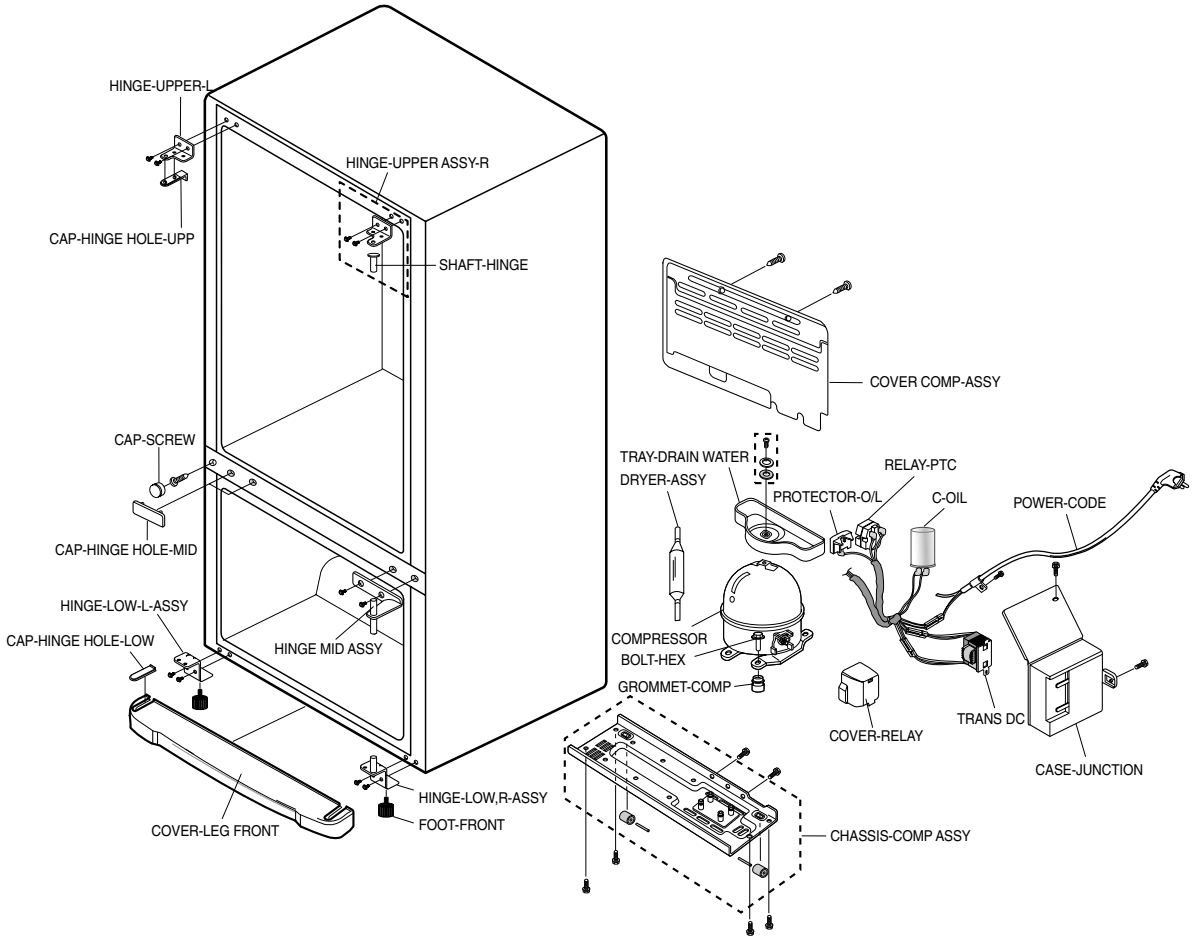
## ■ Door List

| NO | CODE-NO | ITEM | SPECIFICATION | OPTION | | |
|---|---|---|---|---|---|---|
| | | | | RL36/39E | RL39W | RL36/39S |
| 1 | DA97-01397A | ASSY GUARD VARITY | PREMIUM | ● | ● | |
| 2 | DA63-01724A | GUARD-VARITY | GPPS(HF-2660) | | | ● |
| 3 | DA66-00058A | TRAY-EGG | PP | ● | ● | ● |
| 4 | DA97-01398A | ASSY GUARD-DAIRY | PREMIUM | ● | ● | |
| 5 | DA97-01408A | ASSY GUARD-DAIRY | GPPS(HF-2660) | | | ● |
| 6 | DA97-01400A | ASSY GUARD BOTTLE-DISPENSER | PREMIUM | | ● | |
| 7 | DA97-01399A | ASSY GUARD-BOTTLE | PREMIUM | ● | | |
| 8 | DA63-01728A | GUARD-BOTTLE | GPPS(HF-2660) | | | ● |
| 9 | DA71-00119A | GUIDE BOTTLE-B | RL39(D),MSWR10,SNC2 | | ● | |
| 10 | DA71-00118A | GUIDE BOTTLE | RL36/39,MSWR10,SNC2 | ● | | ● |
| 11 | DA91-01722A | ASSY-DOOR FOAM FRE | RL39,SNOW WHITE | ● | | ● |
| | DA91-01722B | | RL39(DIS),SNOW WHITE | | ● | |
| | DA91-01722C | | RL36,SNOW WHITE | ● | | ● |
| | DA91-01722D | | RL39,MIST SILVER | ● | | ● |
| | DA91-01722E | | RL39(DIS),MIST SILVER | | ● | |
| | DA91-01722F | | RL36,MIST SILVER | ● | | ● |
| 12 | DA91-01724A | ASSY-DOOR FOAM REF(DIS) | RL39DISP,SNOW WHITE | | ● | |
| | DA91-01724B | | RL39DISP,MIST SILVER | | ● | |
| 13 | DA91-01723A | ASSY DOOR FOAM REF | RL39,SNOW WHITE | ● | | ● |
| | DA91-01723B | | RL36,SNOW WHITE | ● | | ● |
| | DA91-01723C | | RL39,MIST SILVER | ● | | ● |
| | DA91-01723D | | RL36,MIST SILVER | ● | | ● |
| 14 | DA97-01402A | ASSY COVER-DISPENSER | RL39(DIS),SNOW WHITE | | ● | |
| | DA97-01402B | | RL39(DIS),MIST SILVER | | ● | |
| 15 | DA61-20146A | SPRING-ETC LEVER | STS304 | | ● | |
| 16 | DA63-01735A | COVER-DISPENSER | ABS,SNOW WHITE | | ● | |
| | DA63-01735B | | ABS,MIST SILVER | | ● | |
| 17 | DA64-00121A | KEY-LEVER | POM | | ● | |
| 18 | DA64-00965A | KNOB-LEVER DISPENSER | ABS(MP-0160),SILVER | | ● | |
| 19 | DA66-00062A | LEVER-DISPENSER | POM,NTR | | ● | |
| 20 | DA97-01433A | ASSY CASE-DISPENSER | RL39(DIS),SNOW WHITE | | ● | |
| | DA97-01433B | | RL39(DIS),MIST SILVER | | ● | |
| 21 | DA63-01715A | TRAY DISPENSER | ABS(HG-0760H),SNOW WHITE | | ● | |
| | DA63-01715B | | ABS(HG-0760H),MIST SILVER | | ● | |
| 22 | DA71-20155B | ASSY FIXER-CASE | RL39,DISPENSER | | ● | |
| 23 | DA74-00054A | ASSY TANK-WATER | RL39,DISPENSER | | ● | |
| 24 | DA61-00139A | ASSY CASE-COCK | RL39,DISPENSER | | ● | |
| 25 | DA63-00240A | COVER-WATER TANK | PP | | ● | |
| 26 | DA65-20004A | CLAMP-TANK | PC-ABS | | ● | |
| 27 | DA67-30216B | CAP-COVER TANK | PP | | ● | |
| 28 | DA74-00051A | TANK-WATER | PP | | ● | |
| 29 | DA67-00194A | CAP-HINGE HOLE | PP,SNOW WHITE | ● | ● | ● |
| | DA67-00194F | | PP,MIST SILVER | ● | ● | ● |



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## 2-4. Cabinet Parts & Unit






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## ■ Cabinet Parts & Unit Lists

| NO | CODE-NO | ITEM | SPECIFICATION | OPTION | | |
|---|---|---|---|---|---|---|
| | | | | RL36/39E | RL39W | RL36/39S |
| 1 | DA61-00073A | HINGE-UPPER ASSY-R | SHP1,T2.7 | ● | ● | ● |
| 2 | DA61-00075A | HINGE-UPPER-L | SHP1,T2.7 | ● | ● | ● |
| 3 | DA61-00146A | HINGE-MID ASSY | SHP1,T4.0 | ● | ● | ● |
| 4 | DA61-00119A | HINGE-MID | SHP1,T4.0 | ● | ● | ● |
| 5 | DA63-00443A | SHIM HINGE-MID | RD-PVC | ● | ● | ● |
| 6 | DA67-00195A | CAP-HINGE HOLE-MID | PP,SNOW WHITE | ● | ● | ● |
| 7 | DA67-00196A | CAP-HINGE HOLE-UPP | PP,SNOW WHITE | ● | ● | ● |
| | DA67-00196F | | PP,MIST SILVER | ● | ● | ● |
| 8 | DA97-00919A | ASSY HINGE LOW-R | ZPC2,T4.0 | ● | ● | ● |
| 9 | DA61-00072A | HINGE-LOWER | SHP1,T4.0 | ● | ● | ● |
| 10 | DA97-00920A | ASSY HINGE LOW-L | ZPC2,T4.0 | ● | ● | ● |
| 11 | DA61-00805A | FOOT FRONT | PP,PI44,NTR | ● | ● | ● |
| 12 | DA97-01431A | ASSY COVER-LEG FRONT | PP(BJ-730T4),SMOW WHITE | ● | ● | ● |
| | DA97-01431B | | PP(BJ-730T4),MIST SILVER | ● | ● | ● |
| 13 | DA63-01733A | COVER LEG-FRONT | PP(BJ-730T4),SNOW WHITE | ● | ● | ● |
| | DA63-01733B | | PP(BJ-730T4),MIST SILVER | ● | ● | ● |
| 14 | DA67-00197A | CAP-HINGE HOLE-LOW | PP,SNOW WHITE | ● | ● | ● |
| | DA67-00197F | | PP,MIST SILVER | ● | ● | ● |
| 15 | DA63-00398A | COVER COMP-ASSY | SBHG1,T0.4 | ● | ● | ● |
| 16 | DA67-00026F | TRAY-DRAIN WATER ASSY | SCP2 | ● | ● | ● |
| 17 | DA73-30102B | DRYER-ASSY | CU,OD18.85,ID2,L102 | ● | ● | ● |
| 18 | DA97-00726A | ASSY-CHASSIS COMP | T1.2 | ● | ● | ● |
| 19 | DA63-40234C | GROMMET-COMP | ID10 H9.7,NBR | ● | ● | ● |
| 20 | DA60-20008A | BOLT-HEX | SM30C,L42.6 | ● | ● | ● |
| 21 | DA63-10352A | COVER-RELAY | PP | ● | ● | ● |
| 22 | DK4A1QL1U/E0 | COMPRESSOR | 230~240V/50Hz | ● | ● | ● |
| | SK170H-L1U | | 220V/50Hz | ● | ● | ● |
| | DK172P-L2U | | 127V/60Hz | ● | ● | ● |
| 23 | 2501-001185 | C-OIL | 350VAC/3.5uF | ● | ● | ● |
| | 2501-001186 | | 350VAC/5uF | ● | ● | ● |
| | 2501-001045 | | 250VAC/12uF | ● | ● | ● |
| 24 | DA34-10003H | PROTECTOR-P/L | 4TM213PHBYY-53 | ● | ● | ● |
| | DA34-10003K | | 4TM232SHBYY-53 | ● | ● | ● |
| | DA34-10003T | | 4TM435PHBYY-53 | ● | ● | ● |
| 25 | DA35-10013B | RELAY-PTC | J531Q35E330M385-2 | ● | ● | ● |
| | DA35-10013N | | J531Q33E100M200-2 | ● | ● | ● |
| 26 | DA26-00003A | TRANS-DC | 240V,17V,0.2A | ● | ● | ● |
| | DA26-00003B | | 115~127V,17V,0.2A | ● | ● | ● |
| 27 | DA61-00089B | CASE-JUNCTION | PP,NTR | ● | ● | ● |
| 28 | DA39-10115D | POWER-CODE | UCP-2,250V,10/16A,L2100 | ● | ● | ● |
| 29 | DA66-00060A | SHAFT-HINGE | SWCH10A,ZPC2 | ● | ● | ● |



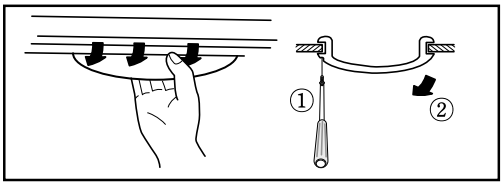
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# 3. Disassembly & Assembly

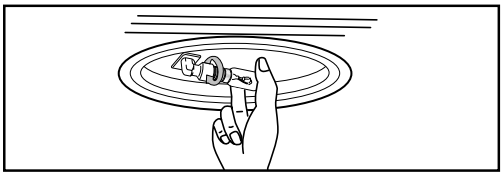
## 3-1. Replacement of refrigerator Incandescent lamp

**Warning**
Always take out the power plug when replacing the refrigerator lamp. There is the danger of electric shock.

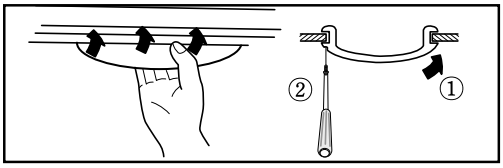
1. Remove a screw from the cover and pull down the cover with the back latch pressed.




2. Pull out the lamp.



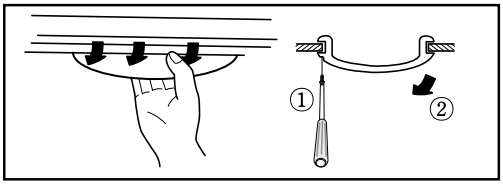
3. After replacing the lamp, assemble the front latch of cover and then connect the back latch and screw on the cover.



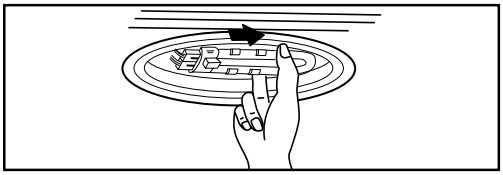

## 3-2. Replacement of refrigerator fluorescent lamp

**Warning**
Always take out the power plug when replacing the refrigerator lamp. There is the danger of electric shock.

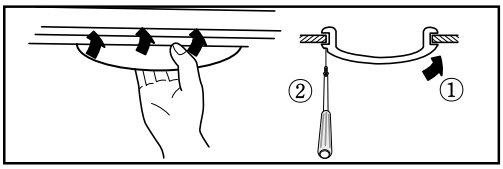
1. Remove a screw from the cover and pull down the cover with the back latch pressed.




2. Pull out the lamp.



3. After replacing the lamp, assemble the front latch of cover and then connect the back latch and screw on the cover.

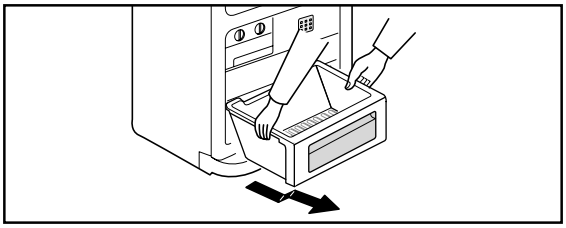




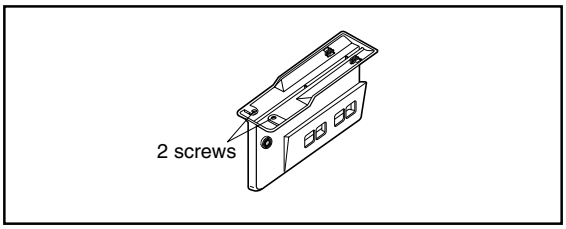

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## 3-3. Disassembly of the cooling cycle unit in the freezer

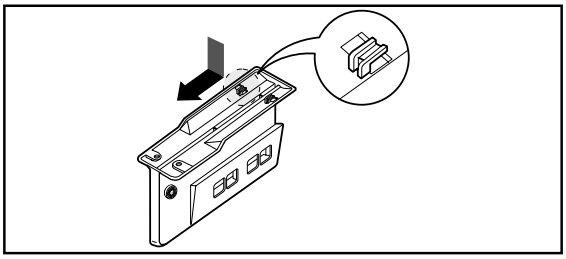
1. Take out the case from the freezer.



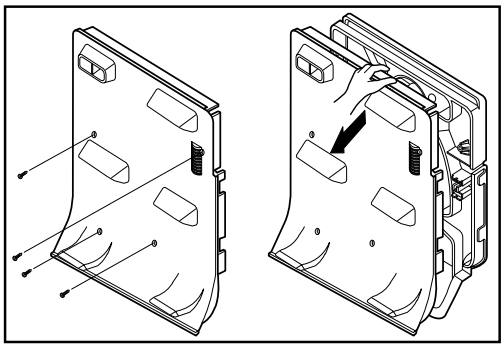
2. Remove 2 screws from the holder of the cooling cycle unit.



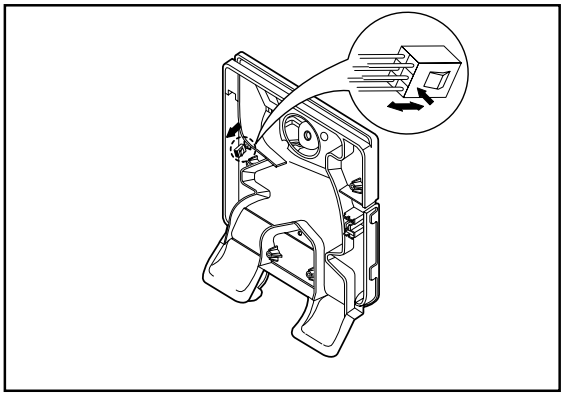

3. Pull out the holder of the cooling cycle unit and disconnect wire terminals.



4. Pull forward the insulating material of the cooling cycle unit and remove the wire terminal and insulating material.



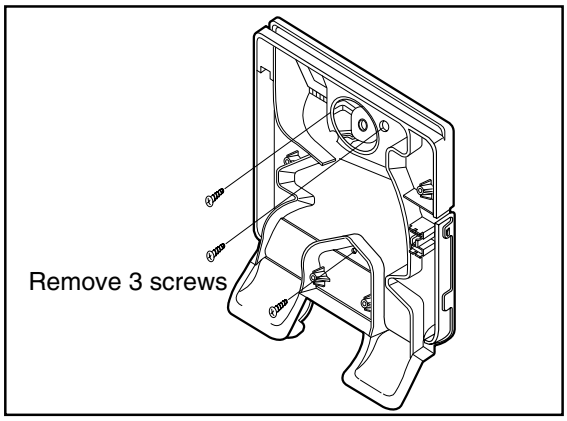
5. Remove 2 screws securing refrigerator duct and pull it out by following the arrow.



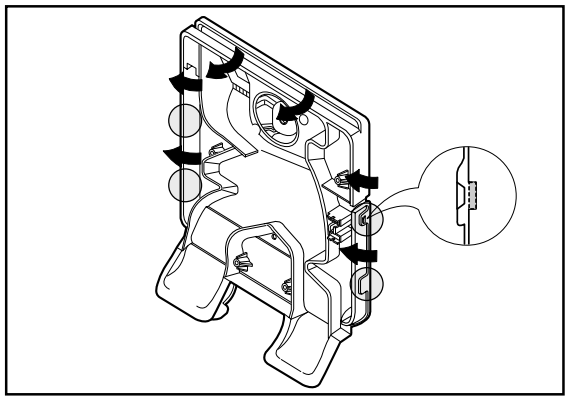


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6. Remove 3 screws from the back cover of the cooling cycle unit and remove the latch with (+) driver.




7. Remove the latch of the cooling cycle unit cover from the bottom.

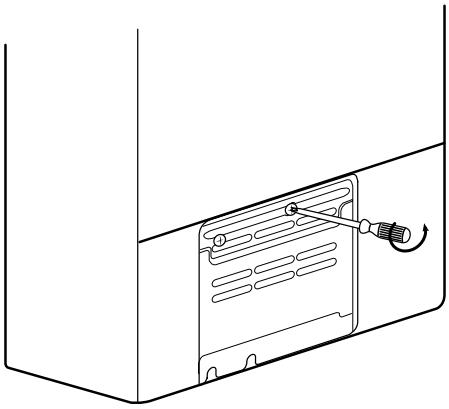




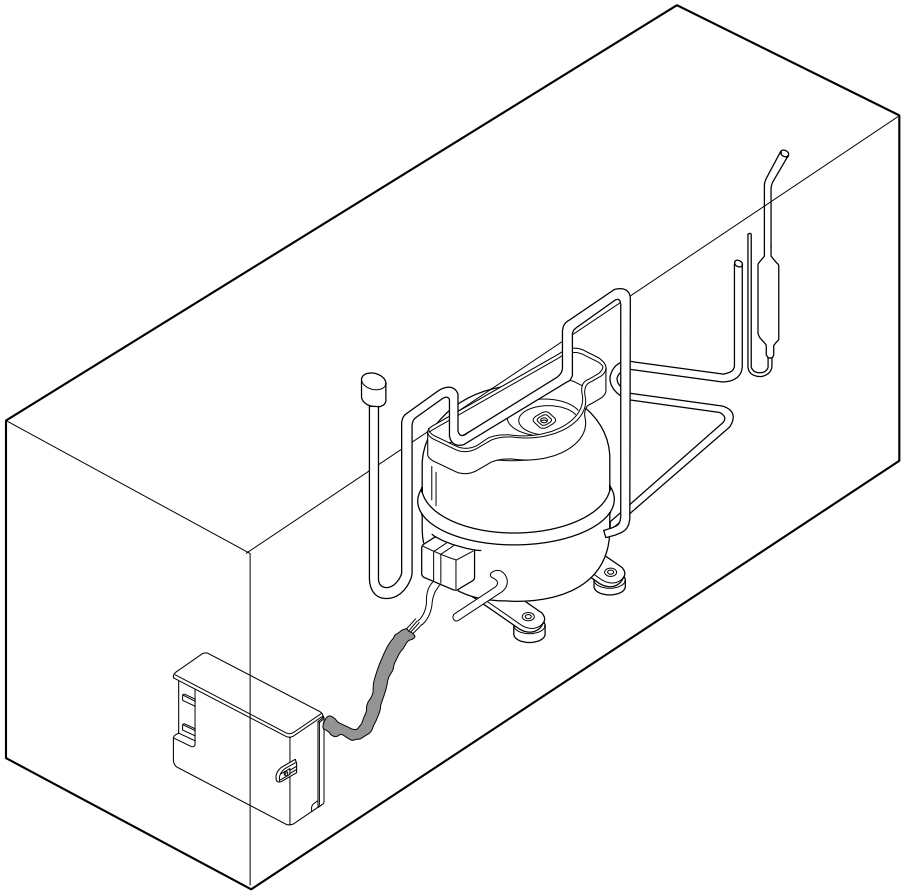
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## 3-4. Assembly of mechanic compartment in the refrigerator

1. Remove the screws from the securing cover of the mechanic compartment at the back bottom.



2. Mechanic compartment assembly



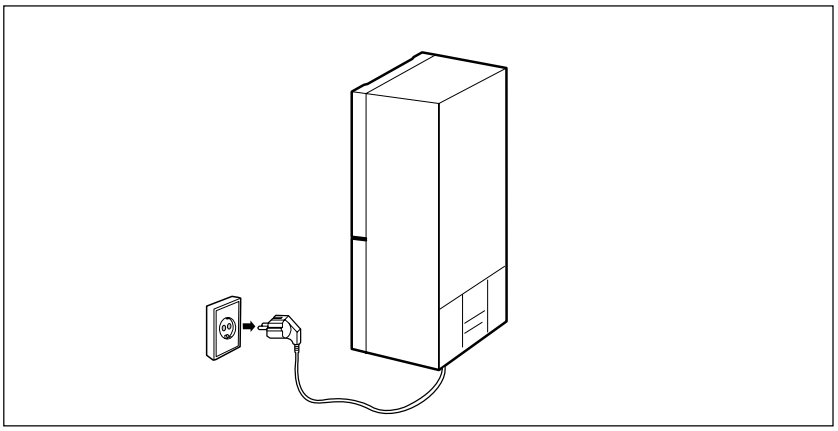


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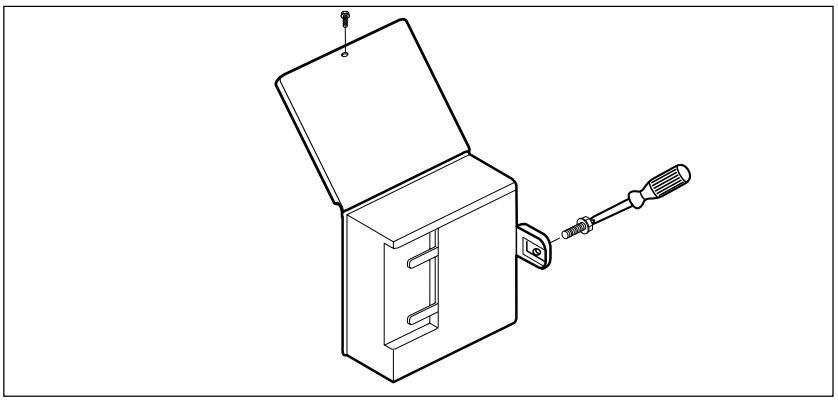
## 3-5. Electric box assembly

**Warning**
Make sure the power plug is taken out when replacing the components for the main PCB.

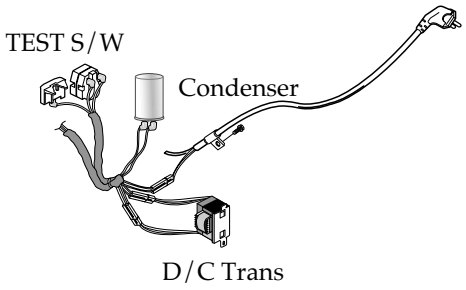
1. Disconnect the power cord.



2. Remove the cover of electrical box with insert driver.(☆)



3. Assembly specification of electric box

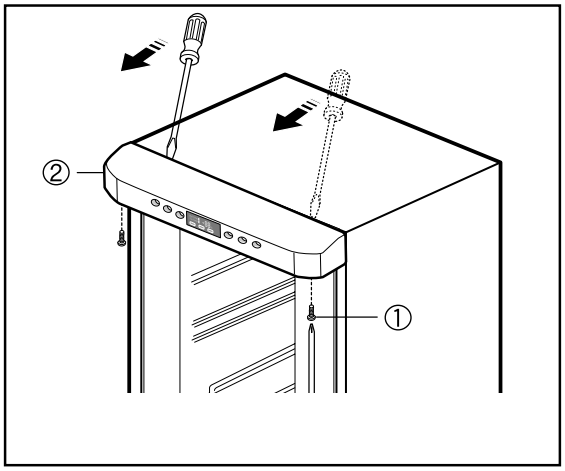




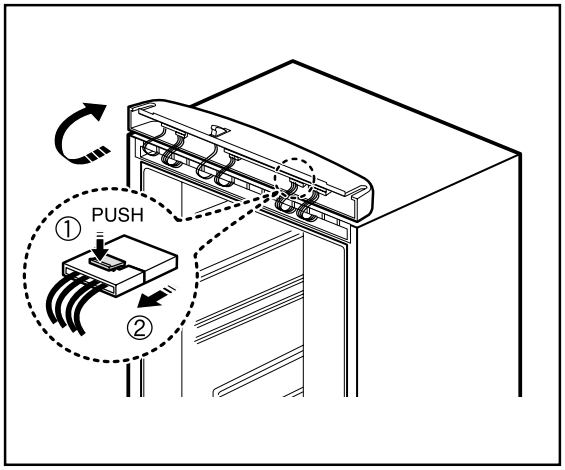

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## 3-6. Disassembly of Top Table

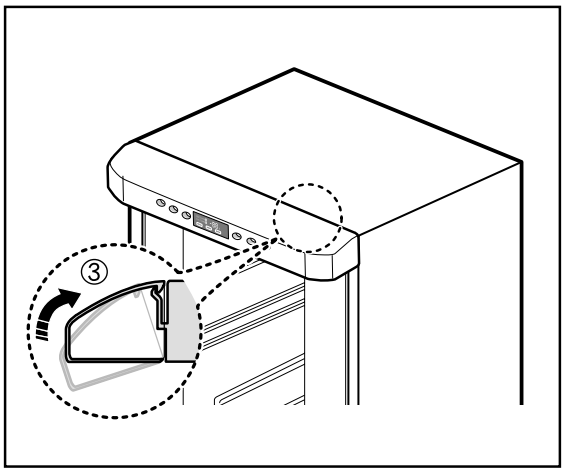
- With the door open, unscrew screws ① with a screw driver("+" type).
- Lever out top table ② with a screw driver ("–" type).




- Repair or change electric parts of top table.




- Attach the top table and click into hook ③ by pressing.






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