



MICROWAVE OVEN

BASIC: SMH7185BG
MODEL: SMH9207ST
MODEL CODE: SMH9207ST/XAA

SERVICE *Manual*

MICROWAVE OVEN



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Refer to the service manual in the GSPN(see rear cover) for the more information.

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1. Precaution



PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not operate or allow the oven to be operated with the door open.
- (b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
 - (1) Interlock operation,
 - (2) proper door closing,
 - (3) seal and sealing surfaces (arcing, wear, and other damage),
 - (4) damage to or loosening of hinges and latches,
 - (5) evidence of dropping or abuse.
- (c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- (d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- (e) A Microwave leakage check to verify compliance with the Federal performance standard should be performed on each oven prior to release to the owner.

1. Precaution

Follow these special safety precautions. Although the microwave oven is completely safe during ordinary use, repair work can be extremely hazardous due to possible exposure to microwave radiation, as well as potentially lethal high voltages and currents.

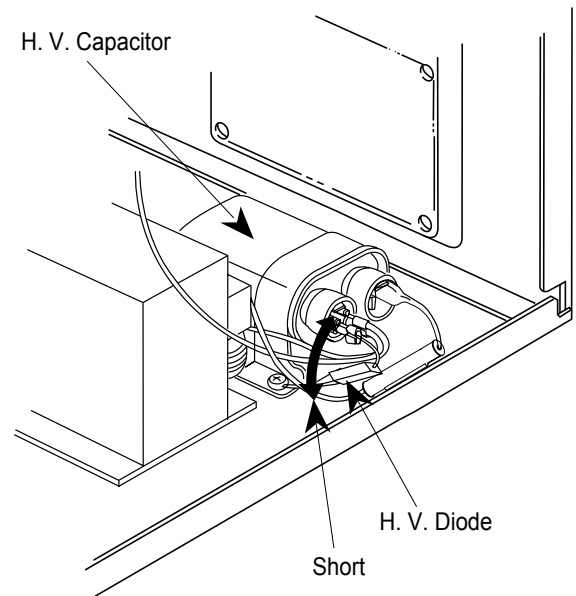
1-1 Safety precautions ()

1. All repairs should be done in accordance with the procedures described in this manual. This product complies with Federal Performance Standard 21 CFR
2. Microwave emission check should be performed prior to servicing if the oven is operative.
3. If the oven operates with the door open :Instruct the user not to operate the oven and contact the manufacturer and the center for devices and radiological health immediately.
4. Notify the Central Service Center if the microwave leakage exceeds 5 mW/cm².
5. Check all grounds.
6. Do not power the MWO from a “2-prong” AC cord. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
7. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
8. Make sure that there are no cabinet openings through which people --particularly children--might insert objects and contact dangerous voltages. Examples: Lamp hole, ventilation slots.
9. Inform the manufacturer of any oven found to have emission in excess of 5 mW/cm² ,Make repairs to bring the unit into compliance at no cost to owner and try to determine cause. Instruct owner not to use oven until it has been brought into compliance.
CENTRAL SERVICE CENTER
10. Service technicians should remove their watches while repairing an MWO.
11. To avoid any possible radiation hazard,replace parts in accordance with the wiring diagram. Also, use only the exact replacements for the following parts: Primary and secondary interlock switches, interlock monitor switch.
12. If the fuse is blown by the Interlock Monitor Switch: Replace all of the following at the same time: Primary, door sensing switch and power relay, as well as the Interlock Monitor Switch. The correct adjustment of these switches is described elsewhere in this manual. Make sure that the fuse has the correct rating for the particular model being repaired.
13. Design Alteration Warning: Use exact replacement parts only, i.e.,only those that are specified in the drawings and parts lists of this manual. This is especially important for the Interlock switches, described above. Never alter or add to the mechanical or electrical design of the MWO. Any design changes or additions will void the manufacturer’s warranty. Always unplug the unit’s AC power cord from the AC power source before attempting to remove or reinstall any component or assembly.
14. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
15. Some semiconductor (“solid state”) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and field-effect transistors. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground.
16. Always connect a test instrument’s ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument’s ground lead last.
17. When checking the continuity of the witches or transformer, always make sure that the power is OFF, and one of the lead wires is disconnected.
18. Components that are critical for safety are indicated in the circuit diagram by shading,  or .
19. Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.
NOTE : Connect the oven to a 20A. When connecting the oven to a 15A,make sure that circuit breaker can operate.

1. Precaution

1-2 Special High Voltage Precautions

1. High Voltage Warning Do not attempt to measure any of the high voltages --this includes the filament voltage of the magnetron. High voltage is present during any cook cycle. Before touching any components or wiring, always unplug the oven and discharge the high voltage capacitor (See Figure 1-1)
2. The high-voltage capacitor remains charged about 30 seconds after disconnection. Short the negative terminal of the high-voltage capacitor to to the oven chassis. (Use a screwdriver.)
3. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.



PRECAUTION

There exists HIGH VOLTAGE ELECTRICITY with high current capabilities in the circuits of the HIGH VOLTAGE TRANSFORMER secondary and filament terminals. It is extremely dangerous to work on or near these circuits with the oven energized.

DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.



PRECAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.



PRECAUTION

Never touch any circuit wiring with your hand nor with uninsulated tool during operation.

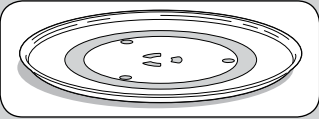

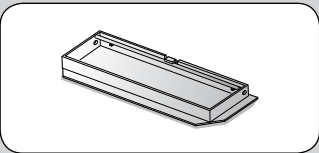
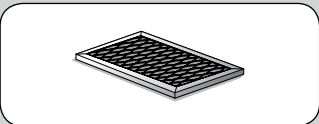
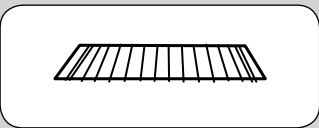
2. Specifications

2-1 Features

| Product Features | |
|---|--|
| • Professional Design | Samsung New OTR with Stainless Steel, it has professional look and the design matches great with other kitchen appliances, so that it provides harmonious kitchen interior and finally completes total kitchen solution. |
| • Turbo vent | With 400CFM ventilation power, New OTR can keep the comfortable cooking condition by absorbing smoke and odor from cook-top. Moreover, it provides the silent condition that is equivalent noise level to other OTR with lower ventilation power. The Strongest power without additional noise! That's the benefit you can feel from New OTR! |
| • Big Interior capacity for convenience | With the 2.0 cu.ft capacity, it offers enough space to cook. The big capacity combined with 1,100 watts of output achieves superior cooking results. |
| • Sensor cook | Don't worry about failure of your cooking! New OTR's sensor technology offers the best dish. Only thing you need to do is just select the cooking menu, and then you will be satisfied with the cooking results by sensor cook. |
| • VFD display | With more informative VFD display, the OTR helps you use all the function it has with ease. |

2. Specifications

2-2 Accessory

| Item | Description | Code No. | Q'ty |
|---|-------------------|-------------|------|
|  | TRAY COOKING | DE74-20002A | 1 |
|  | ASSY-GUIDE ROLLER | DE97-00637A | 1 |
|  | ASSY-HOOD DAMPER | DE92-90242D | 1 |
|  | ASSY-HARD WARE | DE92-90505E | 1 |
|  | FILTER AIR | DE63-30011A | 2 |
|  | FILTER CHARCOAL | DE63-00367D | 1 |
|  | RACK-WIRE | DE75-00036B | 1 |

2. Specifications

2-3 Table of Specifications

| Items | | Basic Model | New Model |
|-------------------|----------------------------------|---|--|
| | | AMV5206BAS | SMH9207ST/XAA |
| Oven Cavity | | 2.0 | 2.0 |
| Controls | | 10 power levels, including defrost | 10 power levels, including defrost |
| Timer | | 99 minutes, 99seconds | 99 minutes, 99seconds |
| Power Source | | 120VAC, 60Hz | 120VAC, 60Hz |
| Power consumption | | 1700 Watts | 1650 Watts |
| Power Output | | 1150 Watts | 1100 Watts |
| Oven Cavity | Dimensions (W x H x D inches) | 20 ^{7/8} x 9 ^{31/32} x 14 ^{9/16} | 22 ^{1/32} x 10 ^{7/8} x 14 ^{7/8} |
| Outside | | 29 ^{7/8} x 16 ^{1/2} x 15 ^{15/32} | 29 ^{7/8} x 16 ^{1/2} x 16 ^{1/2} |
| Shipping | | 33 ^{3/8} x 19 ^{15/16} x 19 ^{13/32} | 33 ^{3/8} x 20 ^{5/32} x 19 ^{13/32} |
| Net/Gross Weight | | 51.6lbs / 62.7lbs | 52.7lbs / 60.6lbs |
| Export Zone | | USA | USA |

3. Disassembly and Reassembly





MAGNETRON, MOTOR ASSEMBLY, VENT BLOWER AND HIGH VOLTAGE TRANSFORMER

Oven must be removed from wall.

REMOVING OVEN FROM WALL (2 PEOPLE REQUIRED)

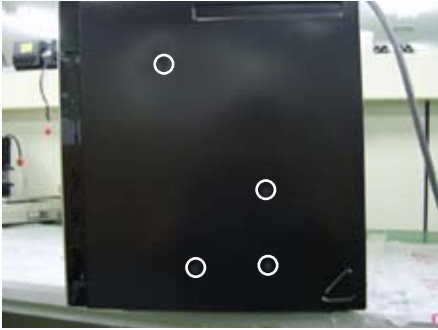



Oven is hooked on metal tabs at bottom of wall mounting plate and to cabinet by (3) top cabinet bolts.

3-1 Disassembly of Assembly Grille and Panel Outer

| Parts | Explanation Photo | Explanation |
|-------------|---|---|
| Grille |  | <ol style="list-style-type: none"> 1. Disconnect oven power. 2. Remove Grille. <ol style="list-style-type: none"> 1) Remove 2 screws 2) Slide the Grille to the left, then pull it straight out. |
| |  | |
| Panel Outer |  | <ol style="list-style-type: none"> 1. Disconnect oven power. 2. Remove Grille. 3. Remove Screw.(7) |
| |  | <ol style="list-style-type: none"> 4. Remove Screw.(4) |

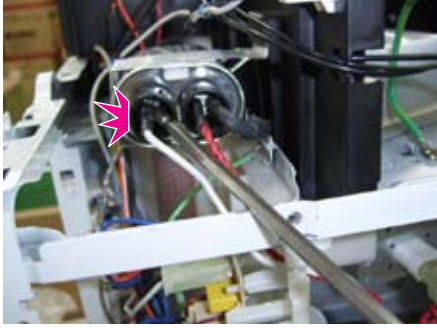
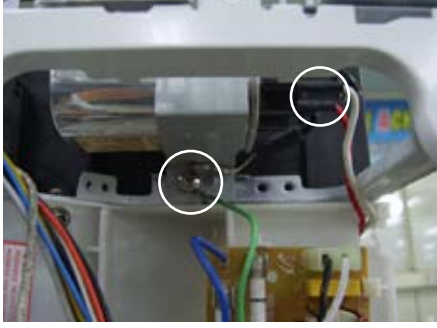
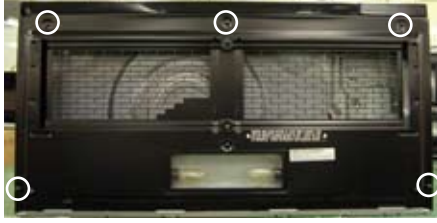





3. Disassembly and Reassembly

3-1 Disassembly of Assembly Grille and Panel Outer

| Parts | Explanation Photo | Explanation |
|--|---|----------------------------|
| Panel Outer |  | <p>5. Remove Screw.(4)</p> |
| |  | <p>6. Remove Screw.(2)</p> |
| |  | <p>7. Remove Screw.(2)</p> |
| Explanation Photo | | |
|  | | |
| Explanation | | |
| <p>8. Remove Panel Outer.</p> | | |

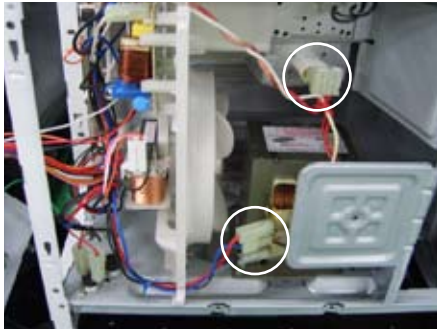

3. Disassembly and Reassembly

3-2 Replacement of High Voltage Transformer and HVC and Base bottom

| Parts | Explanation Photo | Explanation |
|------------------------|---|--|
| High voltage capacitor |  | <ol style="list-style-type: none"> 1. Disconnect Oven Power. 2. Remove Panel Outer. 3. Discharge The High Voltage Capacitor. <p>⚠ ATTENTION : When discharge must become ground terminal of HVC and metal of around.</p> |
| |  | <ol style="list-style-type: none"> 4. Remove screw.(1) 5. Disconnect the Lead Wire. |
| Base Bottom |  |  <ol style="list-style-type: none"> 1. Remove Screw.(5) 2. Disconnect Lamp Housing. 3. Remove Base bottom. |
| HV Trans |   |   <ol style="list-style-type: none"> 1. Disconnect Oven Power. 2. Remove the Base bottom and Panel Outer. 3. Disassembly the Bracket Duct upper after remove screw. |

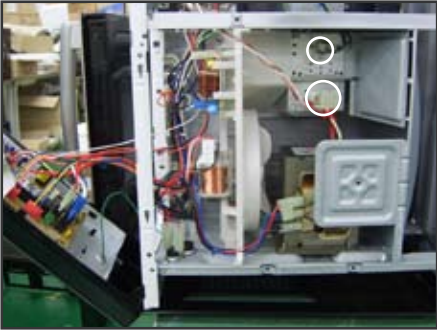
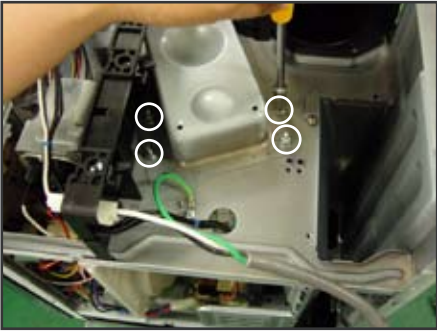
3. Disassembly and Reassembly

3-2 Replacement of High Voltage Transformer and HVC and Base bottom

| Parts | Explanation Photo | Explanation |
|----------|--|--|
| HV Trans |  | <p>4. Disconnect the Lead Wire.</p> |
| |  | <p>5. Remove screw.(4) 6. Take out the HV Trans.</p> |

3. Disassembly and Reassembly

3-3 Replacement of Magnetron

| Parts | Explanation Photo | Explanation |
|---|--|--|
| Magnetron |  | <p>Remove the magnetron including the shield case, permanent magnet, choke coils and capacitors (all of which are contained in one assembly).</p> <ol style="list-style-type: none">1. Disconnect all lead wires from the magnetron. |
| |  | <ol style="list-style-type: none">2. Remove nuts (4) securing the magnetron to the wave guide.3. Take out the magnetron very carefully. |
| <p>NOTE1: When removing the magnetron, make sure that its antenna does not hit any adjacent parts, or it may be damaged.</p> <p>NOTE2: When replacing the magnetron, be sure to remount the magnetron gasket in the correct position and make sure the gasket is in good condition.</p> | | |






PRECAUTION

During replacement, be certain R.F. anode gasket is in place around anode stub.

PERFORM MICROWAVE LEAKAGE TEST

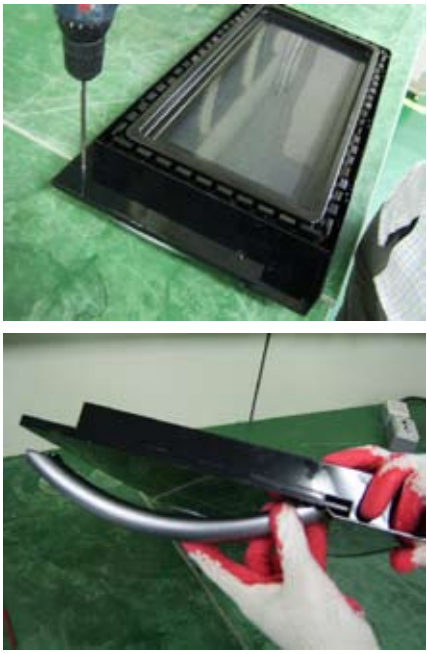
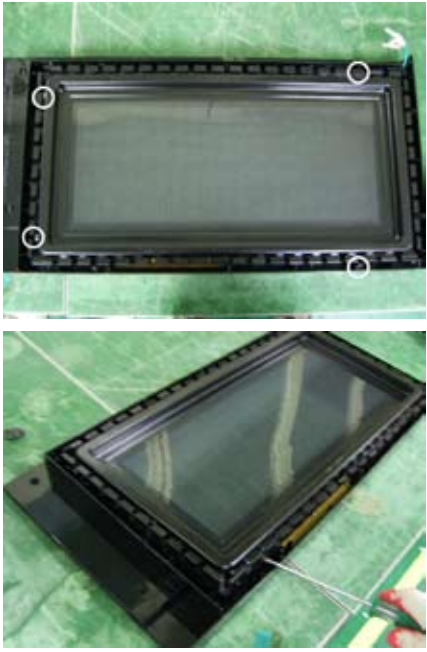
3. Disassembly and Reassembly

3-4 Replacement of Door Assembly

| Parts | Disassembly Photo | Explanation |
|------------------------------|---|--|
| Removal of Door Assembly |  | <ol style="list-style-type: none"> 1. Disconnect the lead wire. 2. Open the Assembly Door by degree 90° 3. Seperate lifting Assembly Door from Set. |
| Removal of Door C |  | <ol style="list-style-type: none"> 4. Insert flat screwdriver into the gap between Door "A" and Door "C" to remove Door "C". <ul style="list-style-type: none"> • Becareful when handling Door "C" because it is fragile. |
| Removal of Key Door & Spring |  | <ol style="list-style-type: none"> 5. Detach the spring and key door from Door. |

3. Disassembly and Reassembly

3-4 Replacement of Door Assembly

| | | |
|---------------------|--|--|
| Removal of Handle |  | <p>4. Remove 2 screws, then handle is detached from Door "A".</p> |
| Removal of Door "E" |  | <p>5. Following the procedure as shown in the figure, insert and bend a thin metal plate between Door "E" and Door "A" until you hear the 'tick' sound.</p> <ul style="list-style-type: none">• Insertion depth of the thin metal plate should be 0.5mm or less. <p>6. Remove 4 screw securing Door "E" to Door "A".</p> |

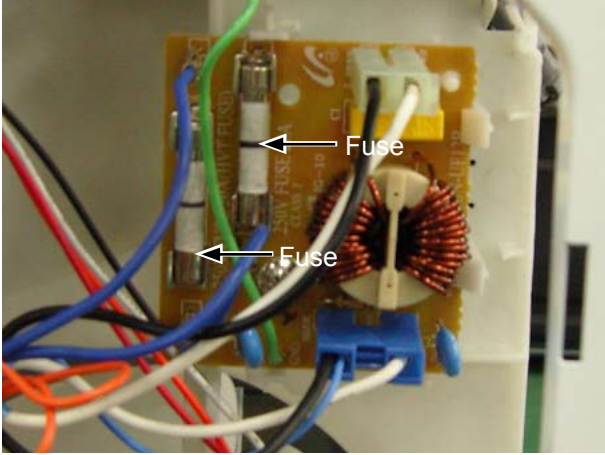


PRECAUTION

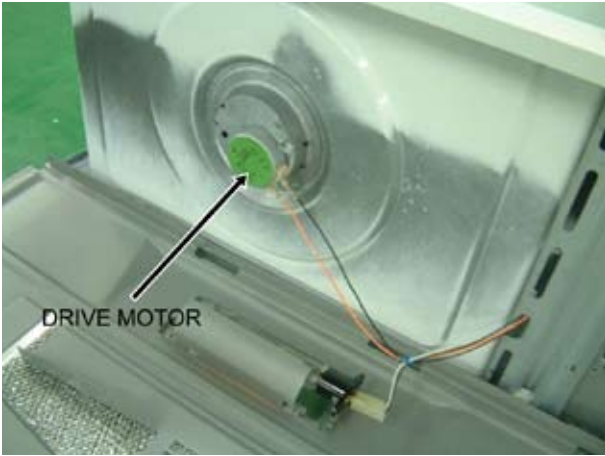
PERFORM MICROWAVE LEAKAGE TEST

3. Disassembly and Reassembly

3-5 Replacement of Fuse

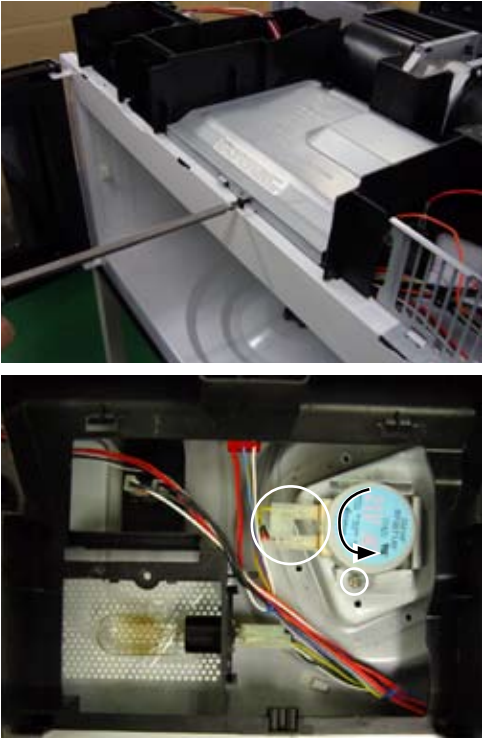
| Parts | Explanation Photo | Explanation |
|-------|---|---|
| Fuse |  | <p>The fuse is located on the noise filter.</p> <ol style="list-style-type: none"> 1. Disconnect power and remove grille and Assembly Control Box. 2. Replace the fuse. 3. When 20A fuse blows out by the operation of interlock monitor switch failure, replace the primary interlock switch, secondary interlock switch, door sensing switch, interlock monitor switch and power relay. 4. When the above four switches operate properly, check if any other part such as the control circuit board, blower motor or high voltage transformer is defective. |

3-6 Replacement of Drive Motor

| Parts | Explanation Photo | Explanation |
|-------------|--|---|
| Drive Motor |  | <ol style="list-style-type: none"> 1. Disconnect power and remove Base bottom screws(5). 2. Remove Base bottom and disconnect the turntable motor drive. 3. Remove turntable motor screws(1) and pull the turntable motor out. 4. When replacing the drive motor, be sure to remount it in the correct position with the coupler. 5. Connect all the leads to the drive motor. |

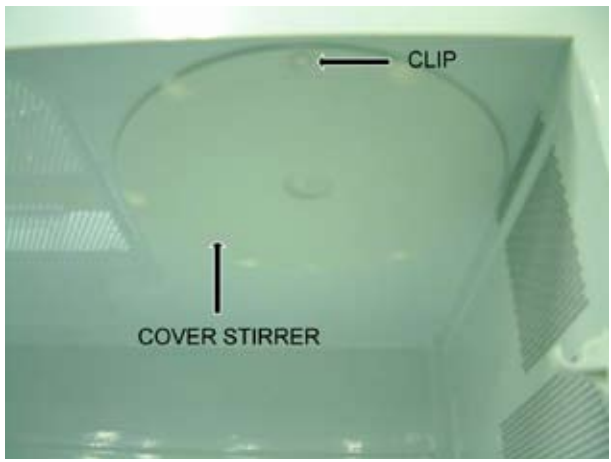
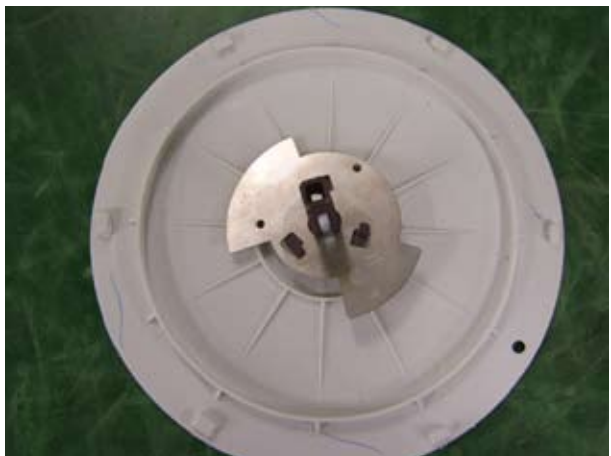
3. Disassembly and Reassembly

3-7 Replacement of stirrer motor

| Parts | Explanation Photo | Explanation |
|---------------|--|--|
| Stirrer Motor |  | <ol style="list-style-type: none"><li data-bbox="930 541 1386 604">1. Disconnect power and remove Grille screws(3).<li data-bbox="930 653 1338 684">2. Remove the bracket duct upper.<li data-bbox="930 732 1349 764">3. Disconnect the stirrer motor wire.<li data-bbox="930 812 1490 875">4. Remove stirrer motor screws(1) and after turn to arrow direction pull the stirrer motor. |

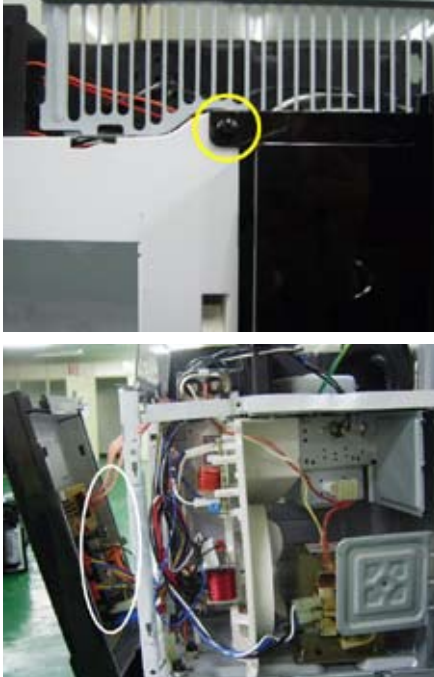

3. Disassembly and Reassembly

3-8 Removal of stirrer


| Parts | Explanation Photo | Explanation |
|---------|--|--|
| Stirrer |  <p>The photo shows the interior of the oven cavity. A white circular cover is visible in the center. A black line points to a small clip on the upper edge of the cover, labeled "CLIP". Another black line points to the cover itself, labeled "COVER STIRRER".</p> | <p>The stirrer is motor driver and located on the upper side of the cavity. The oven uses a top feed wave guide.</p> <p>The stirrer is located in the wave guide and the motor is located on the wave guide.</p> <ol style="list-style-type: none">1. Disconnect power and open the door.2. Remove the clip and turn the stirrer cover left.3. Remove stirrer cover and the stirrer will come with it. |
| |  <p>The photo is a close-up of the white circular stirrer cover. In the center, there is a motor assembly with a black gear and a metal shaft. The cover has several radial ribs and a small hole on the right side.</p> | |

3. Disassembly and Reassembly

3-9-1 Replacement of Control Circuit Board (Power)

| Parts | Explanation Photo | Explanation |
|---------------------------------|---|---|
| Removal of Control Box Assembly |  | <ol style="list-style-type: none"> 1. Disconnect power and remove Grille. 2. Be sure to ground any static electric charge in your body and never touch the control circuit. 3. Remove a screw securing the control box assembly. 4. Disconnect the connectors from the control circuit board. |
| Removal of P.C.B Assembly(Sub) |  | <ol style="list-style-type: none"> 1. Pull the lever end of the plastic fastener and remove the Flexible Printed Circuit(FPC) of membrane panel. 2. Remove screws (3) securing the control circuit board. 3. Lift up the control circuit board from the Ass'y control box. 4. When reconnecting the FPC connector, make sure that the holes on the connector are properly engaged with the hooks on the Plastic Fastener. |




3-9-2 Replacement of Control Circuit Board (Main)

| Parts | Explanation Photo | Explanation |
|---------------------------------|---|--|
| Removal of P.C.B Assembly(Main) |  | <ol style="list-style-type: none"> 1. Remove the Door-E(15Page) 2. Remove screws (3) securing the control circuit board. 3. Lift up the control circuit board from the Ass'y control box. 4. When reconnecting the FPC connector, make sure that the holes on the connector are properly engaged with the hooks on the Plastic Fastener. |

3. Disassembly and Reassembly

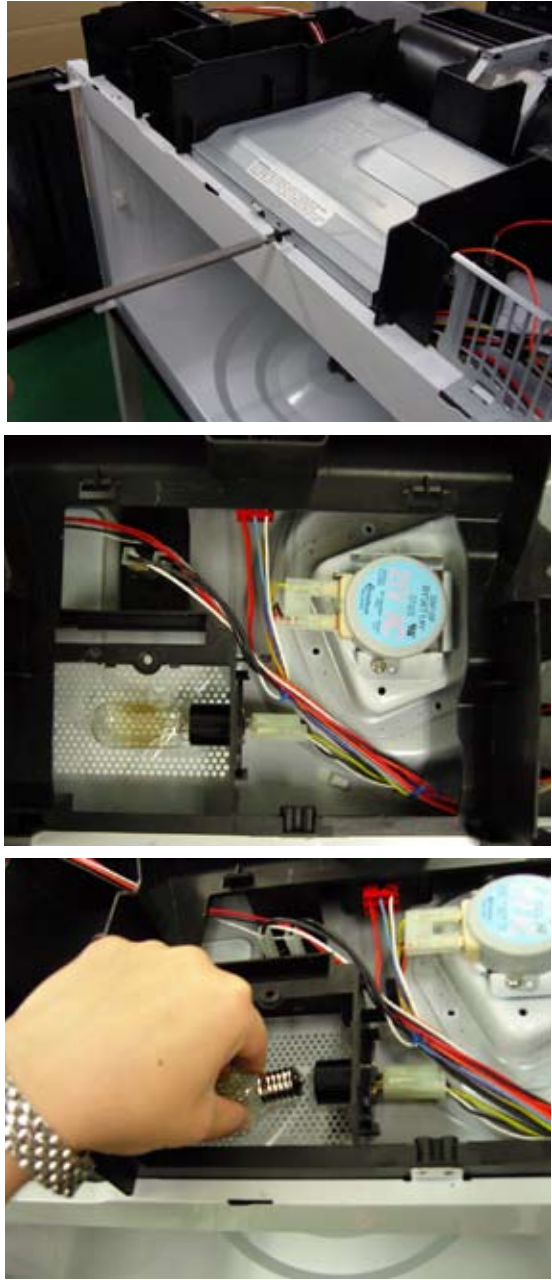
3-10 Replacement of Cooktop lamp

When replacing the night light, make sure that you are wearing gloves to avoid injury from the heat of the bulb.

| Parts | Explanation Photo | Explanation |
|--------------|---|--|
| Cooktop Lamp |  | <ol style="list-style-type: none">1. Unplug the oven or turn off the power at the main power.2. Remove the bulb cover, and mounting screws.3. Replace the bulb with a 40 watt appliance bulb.4. Replace the bulb cover and mounting screws.5. Turn the power back on at the main power supply. |
| |  | |
| |  | |

3. Disassembly and Reassembly

3-11 Replacement of Oven Light

| Parts | Explanation Photo | Explanation |
|------------|---|--|
| Oven Light |  | <ol style="list-style-type: none"><li data-bbox="1031 793 1360 825">1. Disconnect Oven power.<li data-bbox="1031 873 1289 905">2. Remove the Grille<li data-bbox="1031 953 1479 1014">3. Remove the bracket Duct upper by remove 1 screw.<li data-bbox="1031 1062 1438 1123">4. Replace the bulb with a 40 watt appliance bulb. |

4. Troubleshooting

4-1 Error Code Numbering Rule

1. ERROR CODE NUMBERING RULE is applied to a microwave oven and an oven.(CMO, OTR, Grill, Convection, Commercial etc.)
2. All sensors and devices have their own number. ex) Gas Sensor = 1, Temp. Sensor = 2, ...
3. Of each device, No.1 and No.2 refer to "Open Error" (not sensed) and "Short Error", respectively.
4. This numbering rule has been applied to models to have been developed since January, 1, 2005. (But, GE or Customize model are excluded.)



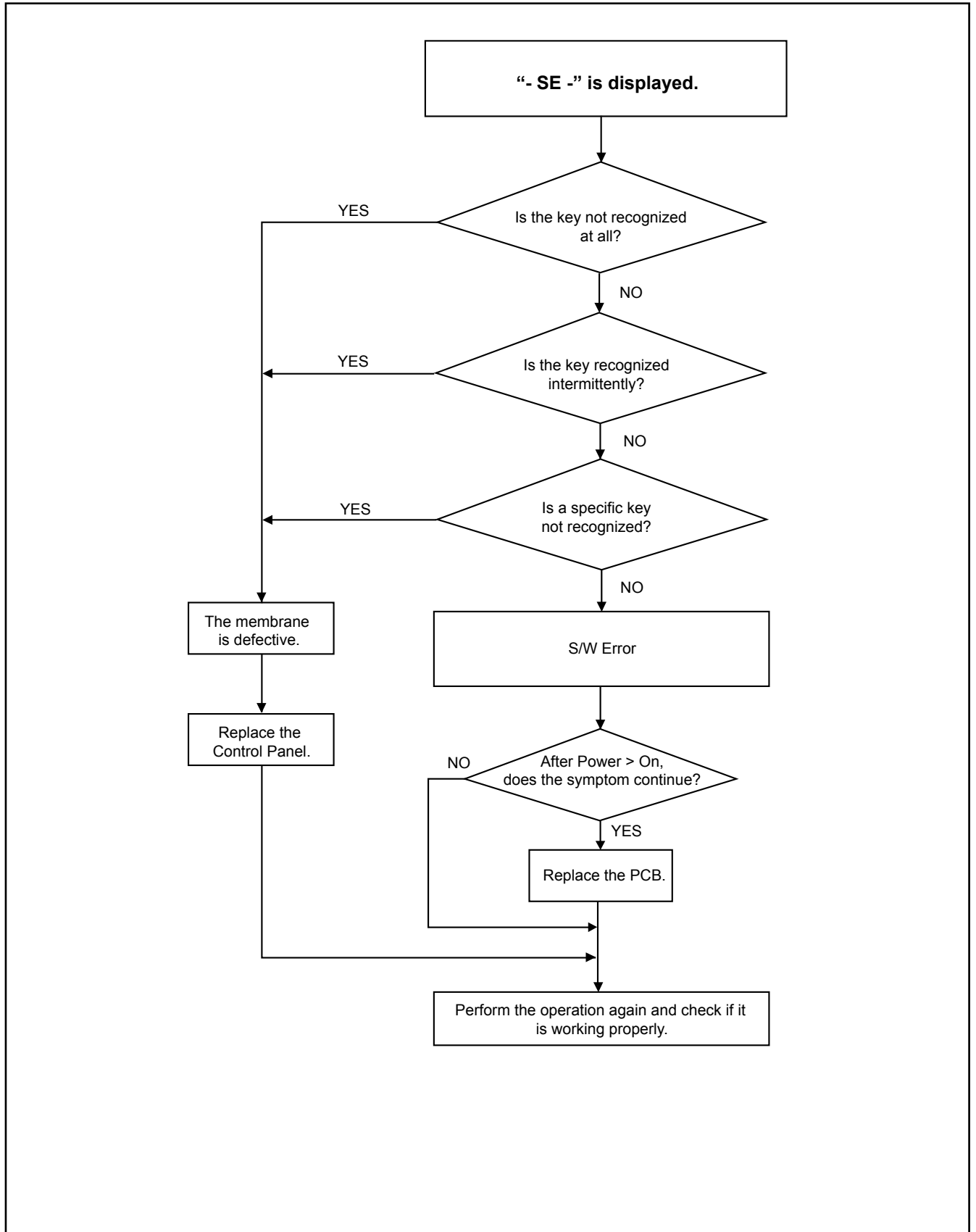
| DEVICE | ERROR CASE |
|-------------------|------------|
| 0- Others | 1- Open |
| 1- Gas Sensor | 2- Short |
| 2- Temp. Sensor | • |
| 3- Weight Sensor | • |
| 4- Easy/PH Sensor | • |
| 5- EEPROM | |
| • | |
| • | |
| • | |

4-2 Error Code List

| Error Code | Others (E-0X, Letter) | Solution | Page |
|------------|------------------------------|---------------------------|---------|
| -SE- | Key Short Error (10 seconds) | Turn off set and restart. | 21 Page |

4. Troubleshooting

4-2-1 Key Short Error



4. Troubleshooting

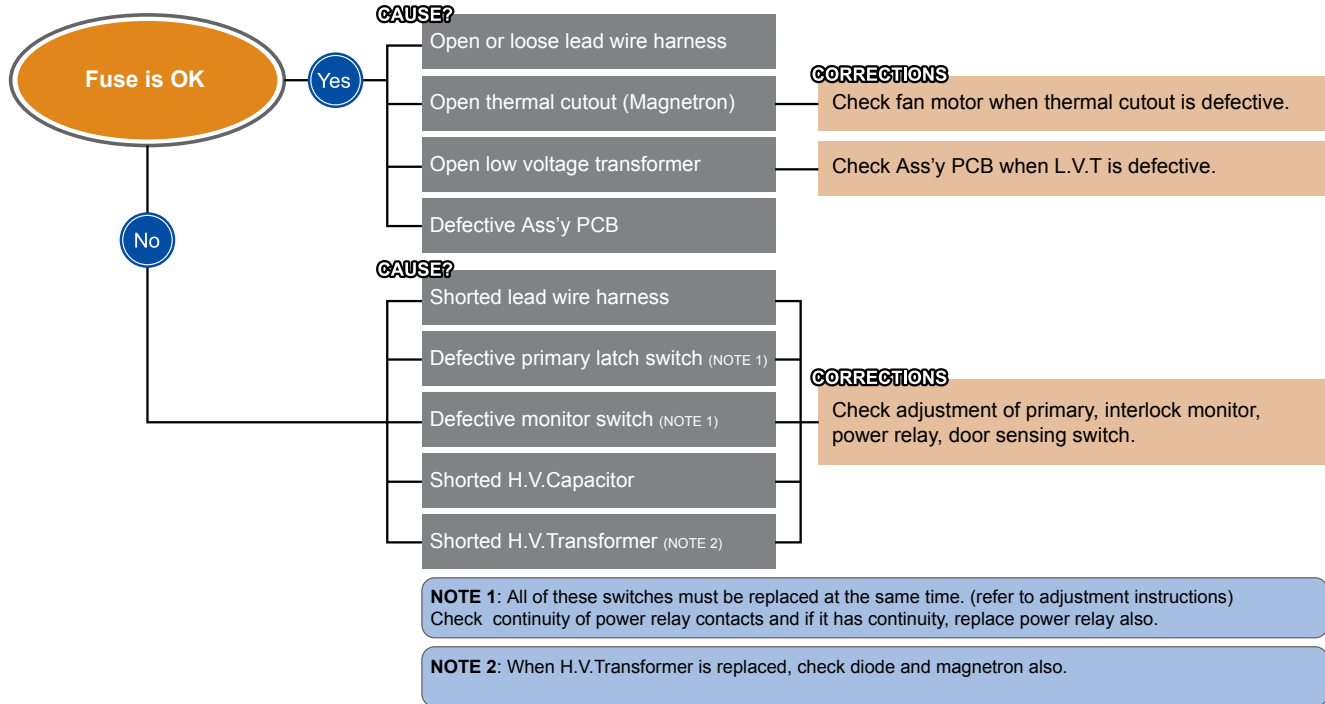


PRECAUTION

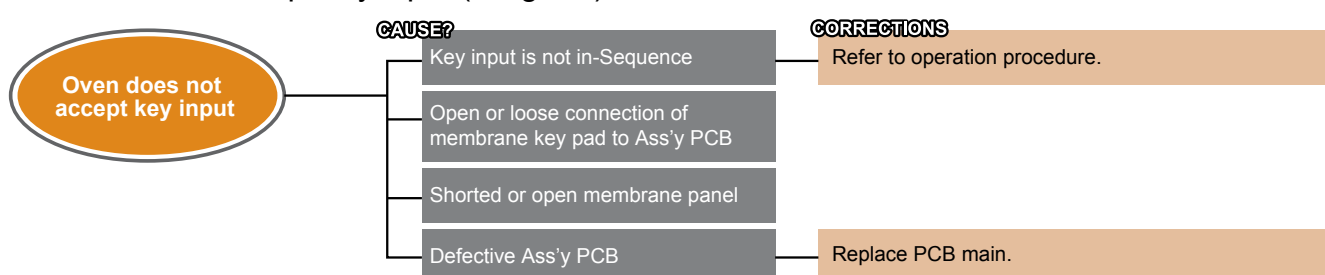
1. CHECK GROUNDING BEFORE CHECKING FOR TROUBLE.
2. BE CAREFUL OF THE HIGH VOLTAGE CIRCUIT.
3. DISCHARGE THE HIGH VOLTAGE CAPACITOR.
4. WHEN CHECKING THE CONTINUITY OF THE SWITCHES OR TRANSFORMER, DISCONNECT ONE LEAD WIRE FROM THESE PARTS AND THEN CHECK CONTINUITY WITHOUT THE POWER SOURCE ON. TO DO OTHERWISE MAY RESULT IN A FALSE READING OR DAMAGE TO YOUR METER.
5. DO NOT TOUCH ANY PART OF THE CIRCUIT OR THE CONTROL CIRCUIT BOARD, SINCE STATIC DISCHARGE MAY DAMAGE IT. ALWAYS TOUCH GROUND WHILE WORKING ON IT TO DISCHARGE ANY STATIC CHARGE BUILT UP.

4-3 Electrical Malfunction

Oven is dead. (No display and no operation at all.)

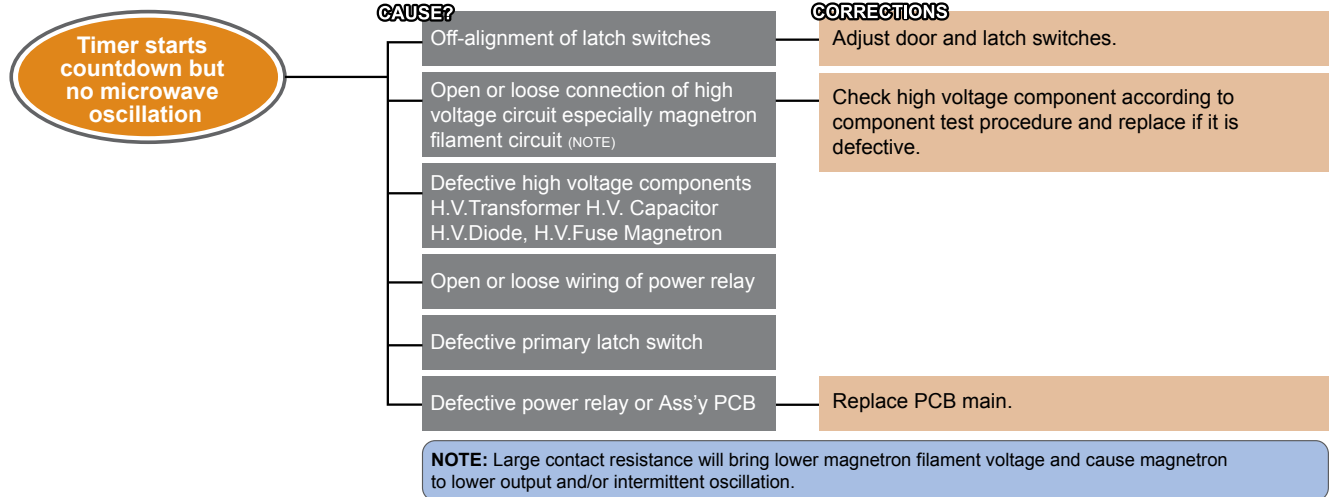


Oven does not accept key input (Program)

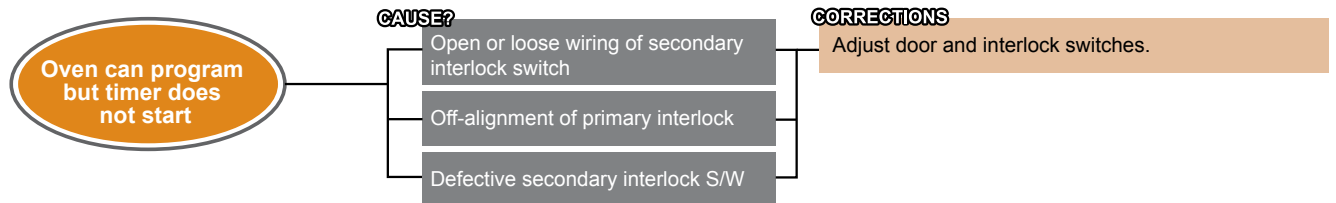


4. Troubleshooting

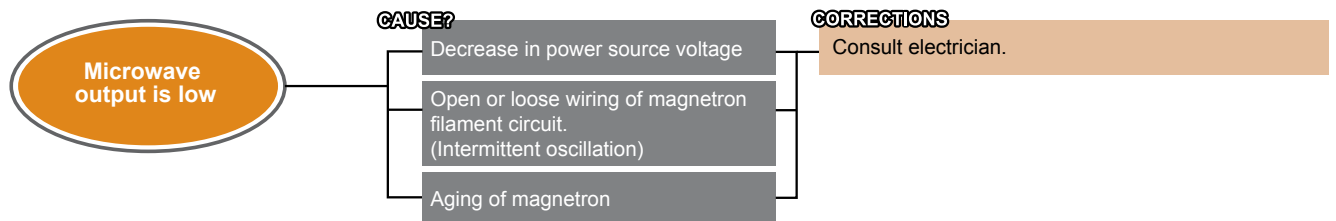
Timer starts countdown but no microwave oscillation.
(No heat while oven lamp and fan motor turn on.)



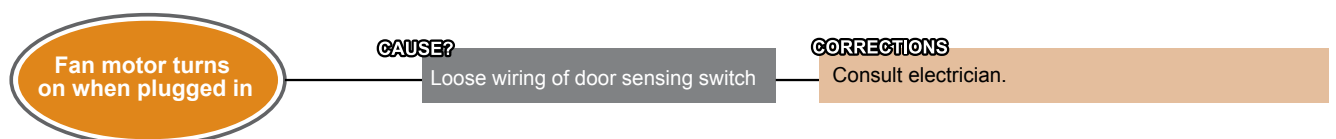
Oven can program but timer does not start.



Microwave output is low. (Oven takes longer time to cook food.)



Fan motor turns on when plugged in.

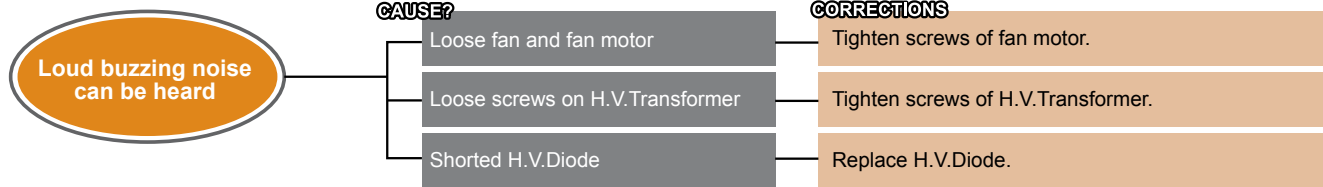


Oven does not operate and return to the plugged in mode.

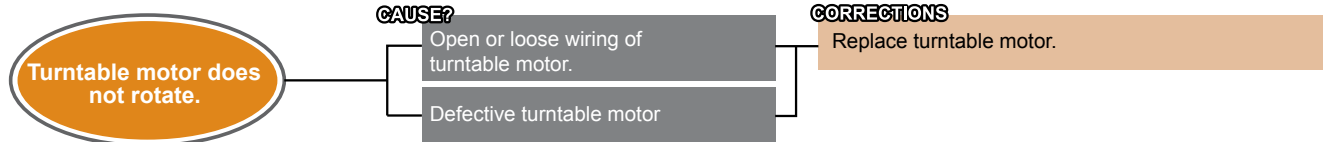


4. Troubleshooting

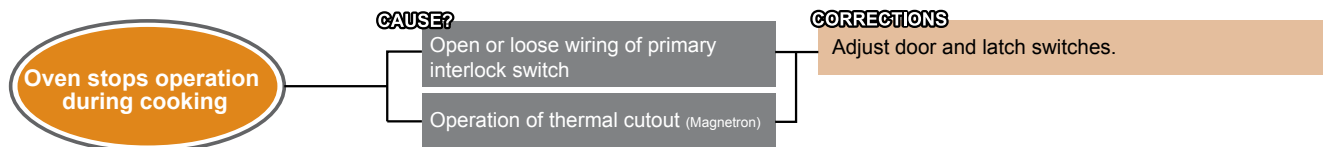
Loud buzzing noise can be heard.



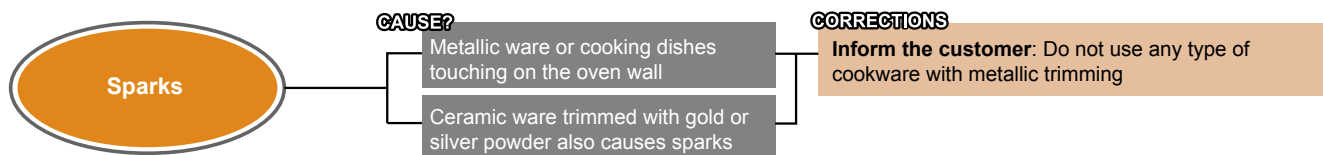
Turntable motor does not rotate.



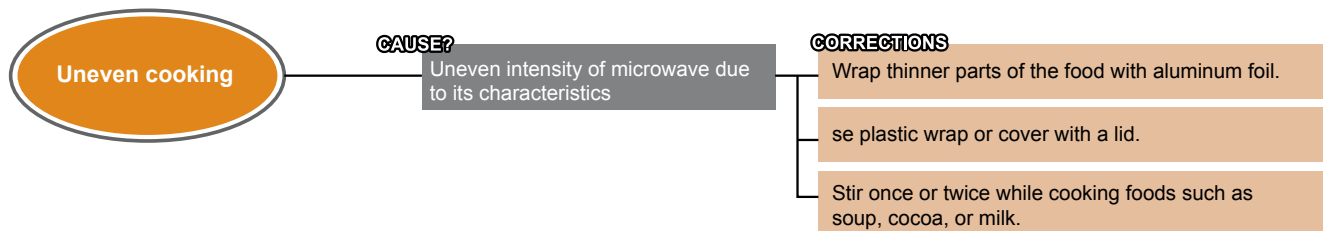
Oven stops operation during cooking.



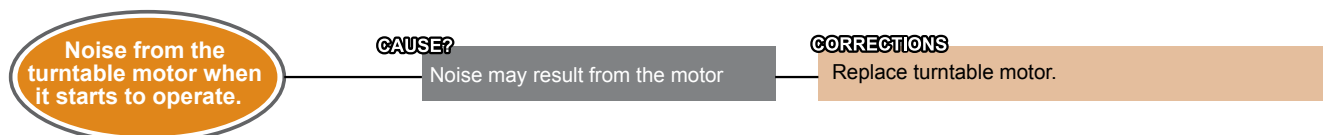
Sparks.



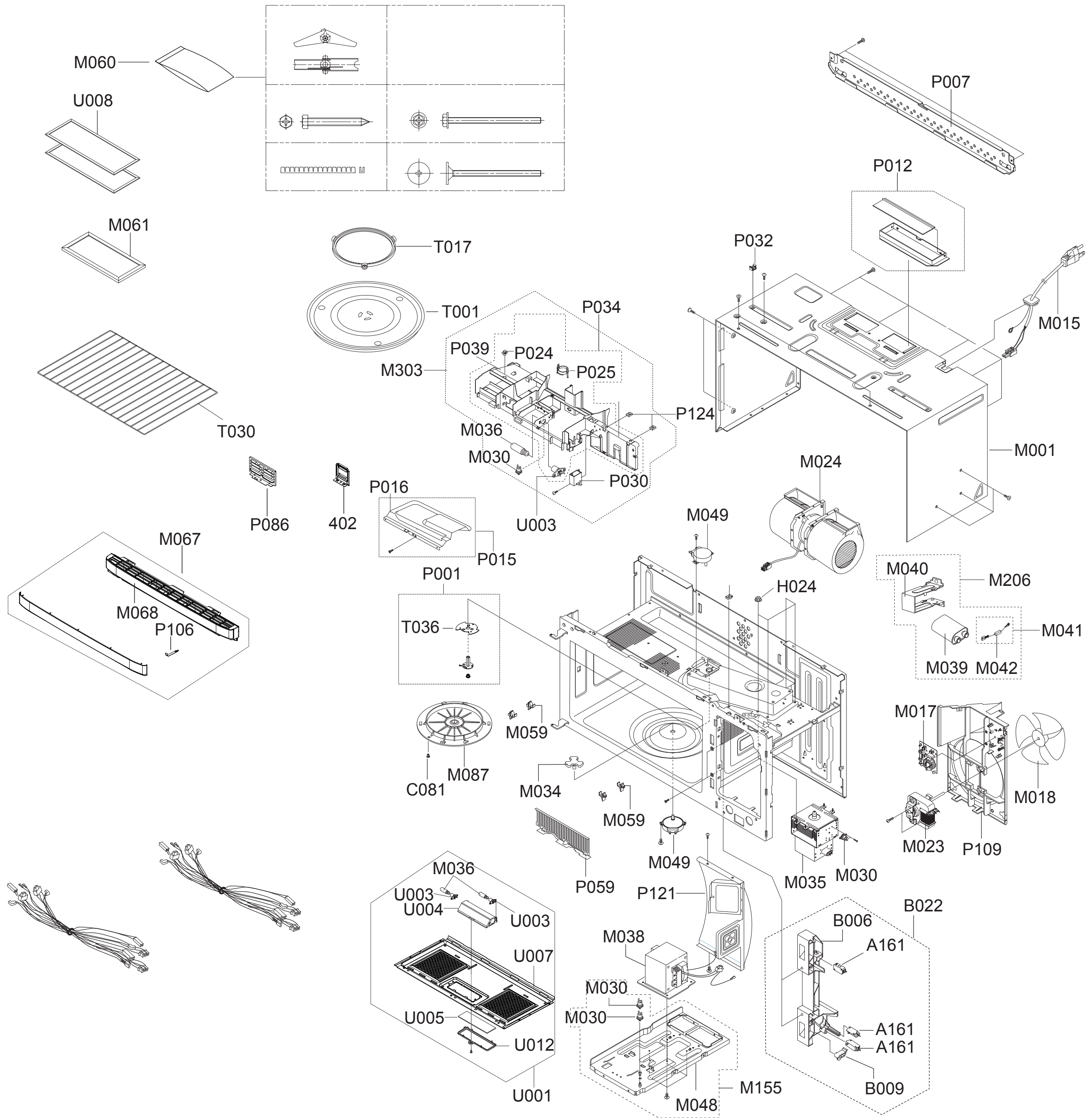
Uneven cooking.



Noise from the turntable motor when it starts to operate.



5-1 Exploded Views



5. Exploded Views and Parts List

5-2 Main Parts List

(S.N.A : SERVICE NOT AVAILABLE)

| No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|------|---------------|---------------------|--------------------------------|------|--------|-----------|
| A161 | 3405-001033 | SWITCH-MICRO | 125/250VAC 16A,200GF,SPSTNC | 1 | SA | - |
| A161 | 3405-001034 | SWITCH-MICRO | 125/250VAC,16A,200GF,SPST-N | 2 | SA | - |
| B006 | DE66-00168A | LATCH-BODY | MODULAR-2,PP,-,-,-,-,- | 1 | SA | - |
| B009 | DE66-90106B | LEVER-SWITCH LOWER | PP,T1.4,-,-,2.0g,OTR | 1 | SA | - |
| B022 | DE96-00414A | ASSY BODY LATCH | RVM-1625BJ,- | 1 | SA | - |
| C081 | DE66-20095B | BUTTON-LOCK | -,-,OTR5,-,-,TB53) | 1 | SA | - |
| H018 | DE31-90051A | BLADE-FAN | P,P,T,D130,-,-,-,-,- | 1 | SA | - |
| H024 | DE60-30015A | NUT-FLANGE | M5,P0.8,MSWR10,FEFZY,-,-,-,-,- | 4 | SA | MGT |
| M001 | DE64-00754J | PANEL-OUTER | MAYTAG2.0,SECC,T0.4,-,-,-,-,BL | 1 | SA | - |
| M015 | DE96-00218A | ASSY-POWER CORD | OTR9,120V60HZ,GE,SJT3/14 | 1 | SA | - |
| M017 | DE96-00400D | ASSY NOISE FILTER | SN-UF12D,250V/20A,SEAR | 1 | SA | - |
| M023 | DE31-00044B | MOTOR FAN | SMF-U4205A,-,-,-,-,120V/60HZ,2 | 1 | SA | - |
| M024 | DE31-00029C | MOTOR VENTILATION | SMV-460UA1-AL,-,120V,6 | 1 | SA | - |
| M030 | DE47-20007A | THERMOSTAT | PW-2N(160/60)187Z,250V7.5A,16 | 1 | SA | MGT |
| M030 | DE47-20059A | THERMOSTAT | PW-2N(8XV),125V15A,V,120/0,23 | 1 | SA | - |
| M030 | DE47-20034A | THERMOSTAT | 40/70,M5,-,-,-,-,-,- | 1 | SA | - |
| M030 | DE47-20059A | THERMOSTAT | PW-2N(8XV),125V15A,V,120/0,23 | 1 | SA | - |
| M034 | DE67-00213A | COUPLER | MT2.0,PPS,-,-,-,-,- | 1 | SA | - |
| M035 | OM75P(10)ESGN | ASSY-MGT | | 1 | SA | - |
| M036 | 4713-001013 | LAMP-INCANDESCENT | 130V,-,40W,ORG,E17/20, | 1 | SA | - |
| M036 | 4713-001013 | LAMP-INCANDESCENT | 130V,-,40W,ORG,E17/20, | 2 | SA | - |
| M038 | DE26-00126B | TRANS H.V | SHV-U1870D,120V,60HZ,2545/2385 | 1 | SA | - |
| M039 | 2501-001011 | C-OIL | 910nF,2100V,BK,54x35x75mm,20mm | 1 | SA | - |
| M040 | DE61-00115A | BRACKET-HVC | SMH7175,SECC,T0.6,-,-,-,-,- | 1 | SA | - |
| M041 | DE91-70063D | ASSY-HVD | HV03-12,MWO-GE,RED | 1 | SA | - |
| M042 | DE59-00002A | DIODE-H.V | 2CL4512H,450mA, 13KV,MWO ALL, | 1 | SA | - |
| M048 | DE61-00905A | BASE-PLATE | MAYTAG2.0,SECC,T0.6,-,-,-,-,- | 1 | SA | - |
| M049 | DE31-10172A | MOTOR-SYNCHRONOUS | M2HJ24Z709,ST-16F,21V, | 1 | SA | TURNTABLE |
| M049 | DE31-10173A | MOTOR-SYNCHRONOUS | M2HJ29A709,ST-16F,21V, | 1 | SA | STIRRER |
| M059 | DE61-00375A | HOLDER-RACK | OTR-1.5CUFT,PP,-,-,-,-,- | 4 | SA | - |
| M060 | DE92-90505E | ASSY-HARD WARE | SMH7175,-,-,-,-,- | 1 | SA | - |
| M061 | DE63-00367D | FILTER-CHARCOAL | MODULAR-2,AL,CARBON,T9,W | 1 | SA | - |
| M067 | DE94-02100A | ASSY GRILLE | SMH9207,PC,STS | 1 | SA | - |
| M068 | DE64-02216A | GRILLE | SMH9207,PC,-,-,-,-,-,BLK,- | 1 | SA | - |
| M087 | DE71-60121A | COVER-STIRRER | -,PP,T2.0,W7,L198,-,85G,- | 1 | SA | - |
| M155 | DE97-00677A | ASSY-BASE PLATE | AMV5206,-,BASE-PLATE T0. | 1 | SA | - |
| M206 | DE96-00269A | ASSY-HVC | SMH7175,0.91UF HVC | 1 | SA | - |
| M303 | DE97-00366A | ASSY-DUCT UPPER | SMH7175,SENSOR+HALOGEN,- | 1 | SA | - |
| P001 | DE94-02101A | ASSY STIRRER | SMH9207,ALP T0.5 | 1 | SA | - |
| P007 | DE70-00378A | PLATE-MOUNTING | SMH7175,SGCC ,-,T0.6,W130 | 1 | SA | - |
| P012 | DE92-90242D | ASSY-HOOD DAMPER | JVM-1870,JVM250BL OTR4, | 1 | SA | - |
| P015 | DE97-00411A | ASSY-BKT DUCT UPPER | SMH7175BC,BKT-DUCT U | 1 | SA | - |
| P016 | DE61-00410A | BRACKET-DUCT UPPER | SMH7175,SECC,T0.5,W20 | 1 | SA | - |
| P024 | DE32-60011A | SENSOR-GAS | ST-MWO,-,-,-,-,-,- | 1 | SA | - |

5. Exploded Views and Parts List

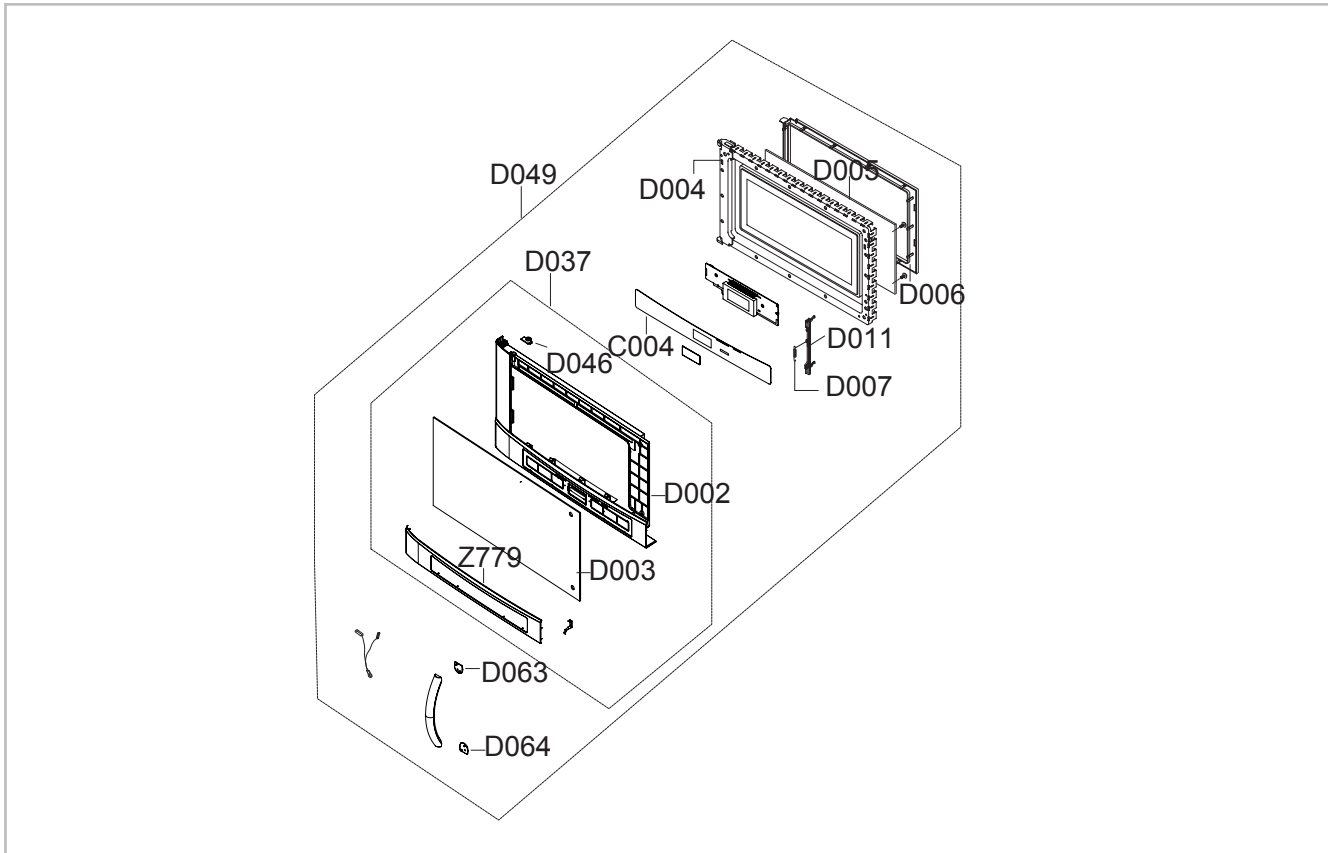
5-2 Main Parts List (Continued)

(S.N.A : SERVICE NOT AVAILABLE)

| No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|------|-------------|----------------------|-------------------------------|------|--------|--------|
| P025 | DE61-90111A | HOLDER-SENSOR | -,POM(DURACON-M90-02),-,,- | 1 | SA | - |
| P030 | DE59-50002A | CAPACITOR-MOTOR | SH-M 10UF,220V10UF,-,DMB | 1 | SA | - |
| P032 | DE92-90508A | ASSY-HOLDER NUT | OTR6,-,-,-,-,- | 1 | SA | - |
| P034 | DE97-00371A | ASSY-DUCT UPPER(SUB) | SMH7175,D/UPPER+GAS | 1 | SA | - |
| P039 | DE67-00168A | DUCT-UPPER | SMH7175,PP,T2.0,BLK,-,-,- | 1 | SA | - |
| P059 | DE63-00419A | COVER-FRONT | MAYTAG2.0,SECC,T0.6,-,-,-,MA | 1 | SA | - |
| P086 | DE61-01008A | BRACKET-BARRIER | MHC4/5,SECC,0.5,-,-,-,- | 1 | SA | - |
| P106 | DE63-00601A | EARTH-GRILLE | SMH9207,STS301,T0.15,-,-,-, | 1 | SA | - |
| P109 | DE63-00141B | COVER-MOTOR | AMV5206BAB,PP(V0),-,-,-,-,- | 1 | SA | - |
| P121 | DE61-00411B | BRACKET-DUCT REAR | NEW WAVE / MT 2.0,SECC | 1 | SA | - |
| P124 | DE60-30063A | NUT-MOUNTING | -,M6.3,S10C,ZNC,YEL,-,-,-,- | 2 | SA | - |
| T001 | DE74-20002A | TRAY-COOKING | GLASS,T6,-,- | 1 | SA | - |
| T017 | DE97-00637A | ASSY-GUIDE ROLLER | MT2.0 REGULAR,-,-,- | 1 | SA | - |
| T030 | DE75-00036B | RACK-WIRE | SMH7175,SNCR,-,W315,-,-,-,D4 | 1 | SA | - |
| T036 | DE31-00059A | BLADE-STIRRER | SMH9207,ALP1050,-,-,-,T0.5 | 1 | SA | - |
| U001 | DE94-02136A | ASSY-BASE BOTTOM | SMH7174BE,BLK,-,- | 1 | SA | - |
| U003 | DE47-00006A | HOLDER-LAMP | 250V,75W,250X187 2POLE,OTR | 1 | SA | - |
| U003 | DE47-00006A | HOLDER-LAMP | 250V,75W,250X187 2POLE,OTR | 2 | SA | - |
| U004 | DE61-00407A | BRACKET-BOTTOM LAMP | SMH7175,SECC,T0.4,-,- | 1 | SA | - |
| U005 | DE64-00911A | GLASS-COOKTOP LAMP | SMH7175,TEMP-GLASS,T2 | 1 | SA | - |
| U007 | DE61-01179B | BASE-BOTTOM | MAYTAG2.0,SECC,T0.4,-,-,BLK, | 1 | SA | - |
| U008 | DE63-30011A | FILTER-AIR | SMH7175,AL-MESH,T2.0,W150,L34 | 2 | SA | - |
| U012 | DE63-00137B | COVER-GLASS COOKTOP | SMH7175,SECC,T0.5,W9 | 1 | SA | - |

5. Exploded Views and Parts List

5-3 Door Parts List

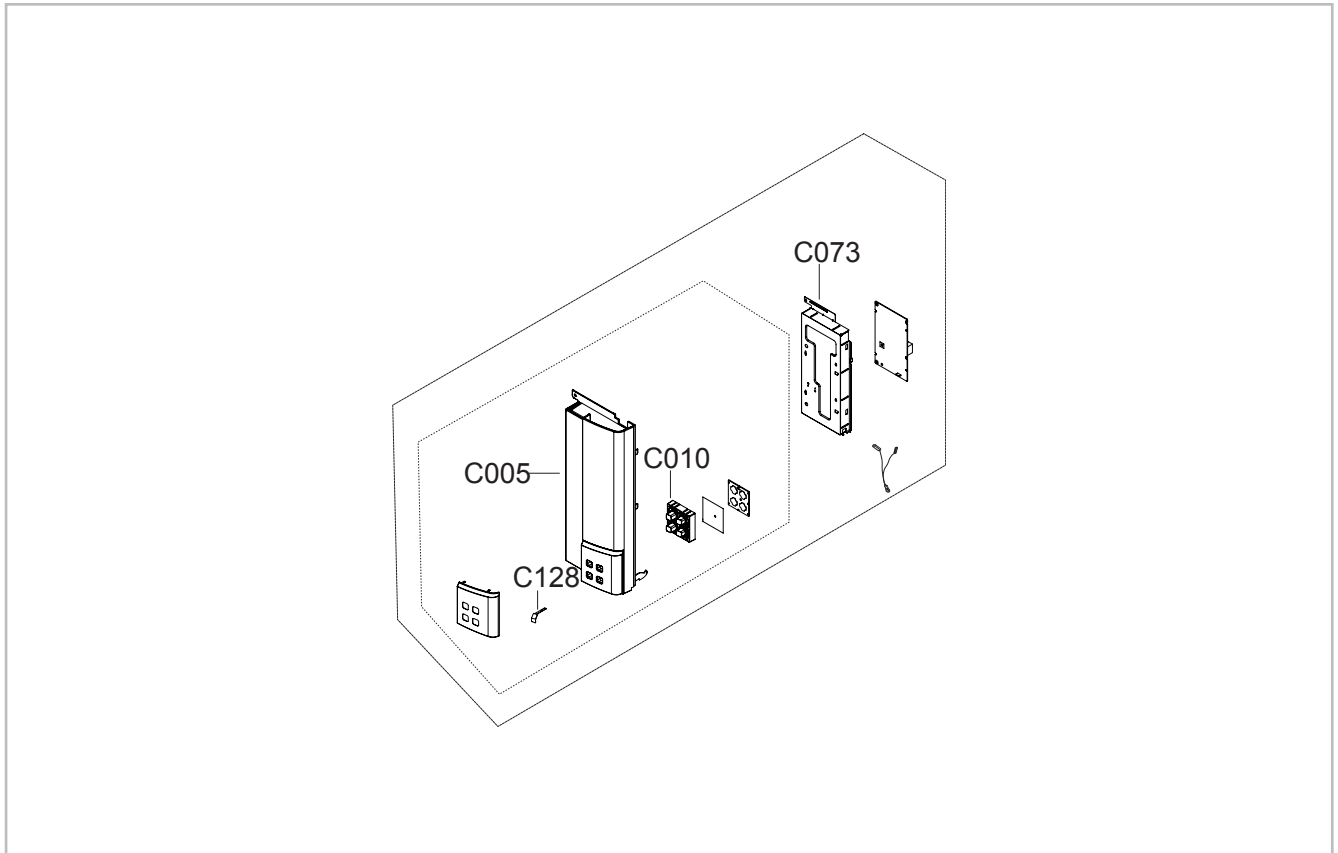


(S.N.A : SERVICE NOT AVAILABLE)

| No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|------|-------------|-------------------|--------------------------------|------|--------|--------|
| C004 | DE34-00333A | SWITCH MEMBRANE | SMH9207ST/XAA,PC,BLACK | 1 | SA | - |
| D002 | DE64-02217A | DOOR-A | SMH9207,PC,-,-,-,BLK,- | 1 | SA | - |
| D003 | DE64-02226A | SCREEN-DOOR | SMH9207,REINFORCE GLASS,T3.2 | 1 | SA | - |
| D004 | DE94-01471B | ASSY DOOR-E | MAYTAG2.0,-,COATING | 1 | SA | - |
| D005 | DE01-00127A | FILM-DOOR | JVM-1860,POLYESTER,-,L479,T0.0 | 1 | SA | - |
| D006 | DE64-00759A | DOOR-C | SMH7175,PP,T1.5,-,-,BLK,- | 1 | SA | - |
| D007 | DE61-00048A | SPRING-KEY | BLUING,HSWR,PI1.95,D8.75,L43 | 1 | SA | - |
| D011 | DE64-01308A | DOOR-KEY | MODULAR-2,POM,-,-,-,BLK,- | 1 | SA | - |
| D037 | DE94-02096A | ASSY DOOR A | SMH9207,PC,STS | 1 | SA | - |
| D046 | DE67-00250A | CAP-DOOR A | SMH9207,PC,-,-,-,BLK,- | 1 | SA | - |
| D049 | DE94-02095A | ASSY DOOR | SMH9207,PC,STS | 1 | SA | - |
| D063 | DE64-02220A | HANDLE-BASE UPPER | SMH9207,PC,-,-,-,BLK | 1 | SA | - |
| D064 | DE64-02243A | HANDLE-BASE LOWER | SMH9207,PC,-,-,-,BLK | 1 | SA | - |
| D073 | DE63-00600A | EARTH-DOOR | SMH9207,STS301,T0.15,-,-,-,- | 1 | SA | - |
| Z779 | DE64-02221A | INLAY-DOOR | SMH9207,STS430,T0.4,-,-,-,HAI | 1 | SA | - |

5. Exploded Views and Parts List

5-4 Control Parts List



(S.N.A : SERVICE NOT AVAILABLE)

| No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|------|-------------|----------------------|----------------------------|------|--------|--------|
| C005 | DE64-02218A | CONTROL-PANEL | SMH9207,PC,-,-,-,BLK,- | 1 | SA | - |
| C010 | DE64-02219A | BUTTON-SELECT | SMH9207,PC,-,-,BLK,- | 1 | SA | - |
| C073 | DE94-02099A | ASSY BRACKET C/PANEL | SMH9207,SECC,T0.4 | 1 | SA | - |
| C128 | DE63-00603A | EARTH-CONTROL | SMH9207,STS301,T0.15,-,-,- | 1 | SA | - |

5. Exploded Views and Parts List

5-5 Standard Parts List

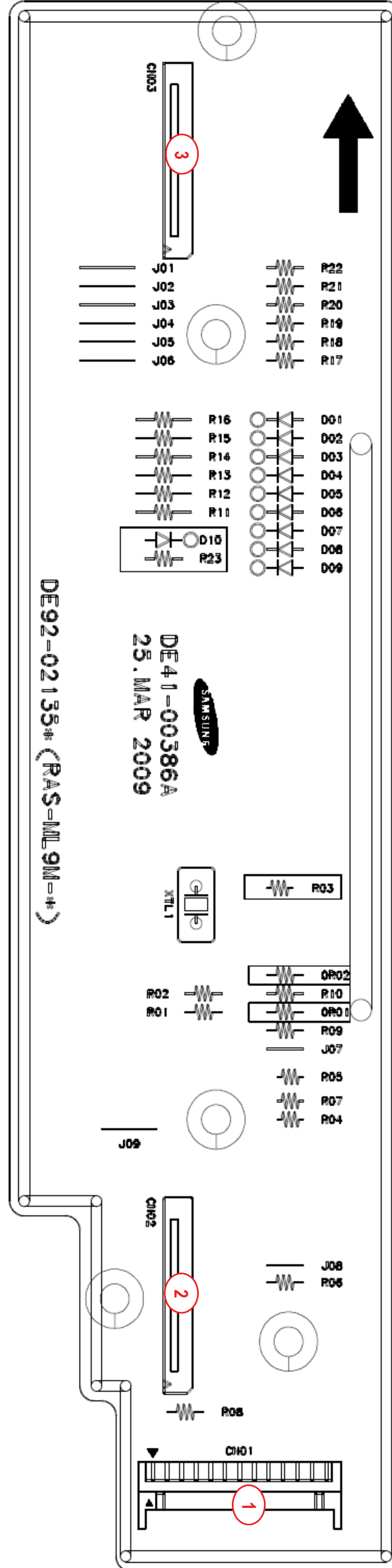
(S.N.A : SERVICE NOT AVAILABLE)

| No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|-----|-------------|-----------------|--------------------------------|------|--------|--|
| 1-1 | 6002-000643 | SCREW-TAPPING | TH,+2S,M4,L10,ZPC(YEL),SW | 2 | SNA | C.FRONT+C. UPPER,CVT FRONT+B. PLATE |
| 1-1 | 6002-001173 | SCREW-TAPPING | FH,+2S,M4,L12,ZPC(BLK),MS | 8 | SNA | GRILLE,O/PANEL |
| 1-1 | 6003-001568 | SCREW-TAPTITE | FH,TORX,-,B-TITE,M4,L14,NI | 2 | SNA | BODY LATCH |
| 1-1 | 6006-001170 | SCREW-ASSY TAPP | WS,TH,+M4,L10,ZPC(YEL) | 2 | SA | N.FILTER E.& BKT. HVC,P.CORD |
| 1-1 | DE60-10045A | SCREW-TAP PH | -,-,FEFZY,-,PH,M3,-,L6,-,- | 2 | SA | MGT-TCO |
| 1-1 | DE60-10051A | SCREW-TAP PH | -,-,MSWR,-,PH,M4,-,L6,-,- | 2 | SA | STIRRER MOTOR,TURNTABLE MOTOR |
| 1-1 | DE60-10062A | SCREW-TAP TH | -,-,FEFZB,-,TH,M4,-,L12,-,- | 2 | SNA | BRACKET D/ UPPER,CONTROL BOX |
| 1-1 | DE60-10067A | SCREW-TAP TH | -,-,FEFZB,2-SLOT,TH,M4,-,L8 | 9 | SA | BASE BOTTOM,P. OUTER+V. MOTOR,PANEL OUTER |
| 1-1 | DE60-10080A | SCREW-WASHER | -,-,-,-,M5,L12,-,2S,-,- | 3 | SA | HVT |
| 1-1 | DE60-10082I | SCREW-A | -,-,-,-,2S-4X10,FEFZY,-,-,-,- | 16 | SA | B.PLATE & CVT. BACK,BKT DUCT REAR,DUCT UPPER,FAN MOTOR,MOUNTING PLATE,PANEL OUTER,VENT-MOTOR |
| 1-1 | DE60-30015A | NUT-FLANGE | M5,P0.8,MSWR10,FEFZY,-,-,-,- | 4 | SA | MGT |
| 1-1 | DE92-90508A | ASSY-HOLDER NUT | OTR6,-,-,-,-,- | 1 | SA | - |
| 1-2 | DE60-10111A | SCREW-LAG | -,-,-,-,MSWR,W1/4X50,-,-,-,- | 1 | SNA | - |
| 1-2 | DE60-20022A | BOLT-TOGGLE | MSWR,W3/16X75,-,-,-,-,-,- | 3 | SNA | - |
| 1-2 | DE60-20066A | BOLT-FLAT | UNF1/4,L110,MSWR10,-,-,OTR6,-, | 3 | SNA | - |
| 1-2 | DE60-30022A | NUT-TOGGLE | SBC1,ZPC2,WHT,-,-,-,-,- | 3 | SNA | - |
| 1-2 | 6001-002033 | SCREW-MACHINE | TH,+,-,M4,L16,ZPC(BLK),SWR | 2 | SNA | HANDLE + DOOR E |
| 1-2 | 6002-000630 | SCREW-TAPPING | PH,+2S,M3,L8,ZPC(YEL),SWR | 2 | SNA | PCB |
| 1-2 | 6006-001170 | SCREW-ASSY TAPP | WS,TH,+M4,L10,ZPC(YEL) | 4 | SA | DOOR-A + DOOR-E |
| 1-2 | DE60-10082I | SCREW-A | -,-,-,-,2S-4X10,FEFZY,-,-,-,- | 1 | SA | MEM + E/DOOR |
| 1-2 | 6002-000630 | SCREW-TAPPING | PH,+2S,M3,L8,ZPC(YEL),SWR | 3 | SNA | PCB |
| 1-2 | 6006-001170 | SCREW-ASSY TAPP | WS,TH,+M4,L10,ZPC(YEL) | 1 | SA | ASSY DIODE |
| 1-2 | DE60-10067A | SCREW-TAP TH | -,-,FEFZB,2-SLOT,TH,M4,-,L8 | 1 | SA | - |
| 1-2 | DE60-10045A | SCREW-TAP PH | -,-,FEFZY,-,PH,M3,-,L6,-,- | 1 | SA | BT-TCO |
| 1-2 | 6002-001004 | SCREW-TAPPING | TH,+2,M4,L30,ZPC(YEL),SWR | 2 | SA | - |
| 1-2 | DE60-10082I | SCREW-A | -,-,-,-,2S-4X10,FEFZY,-,-,-,- | 1 | SA | N/FILTER SCREW |
| 1-3 | DE60-30063A | NUT-MOUNTING | -,M6.3,S10C,ZNC,YEL,-,-,-,- | 2 | SA | - |

6-1 PCB Diagrams (ML9M)

(This Document can not be used without Samsung's authorization)

| No. | Parts Number | Part Name | Function and Rule |
|-----|--------------|-----------------------------|--|
| 1 | CN01 | MAIN & POWER PBA Connector | Connect Main and Power PBA |
| 2 | CN02 | Membrane switch Connector_L | A Terminal for Connecting with Left Membrane Switch |
| 3 | CN03 | Membrane switch Connector_R | A Terminal for Connecting with Right Membrane Switch |



6-2 PCB Diagrams (ML9M)

(This Document can not be used without Samsung's authorization)



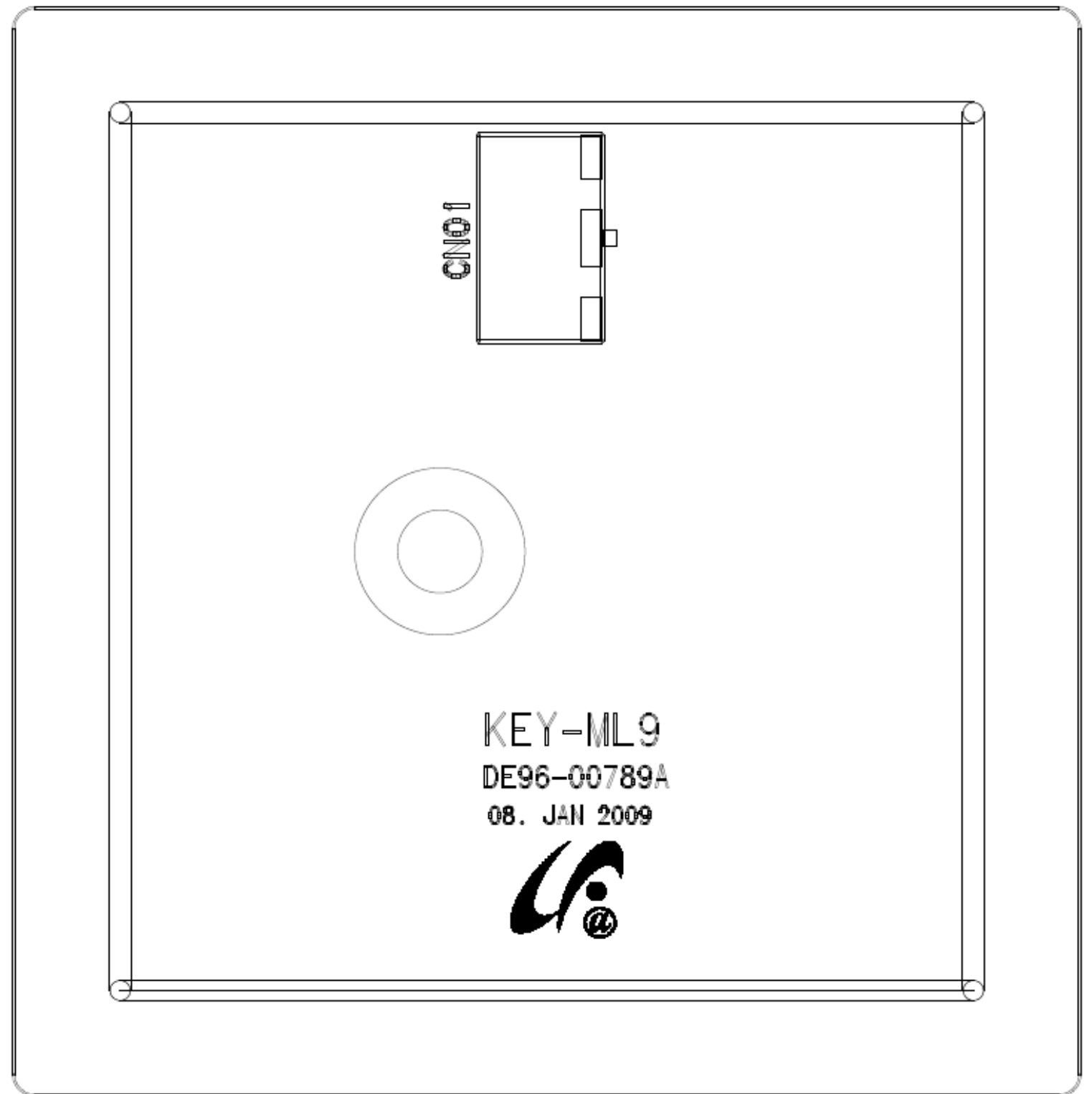
- CN03**
- 1) NO CONNECTION
 - 2) KEY IN-6
 - 3) KEY IN-5
 - 4) KEY IN-4
 - 5) KEY IN-3
 - 6) KEY IN-2
 - 7) KEY IN-1
 - 8) KEY OUT-9
 - 9) KEY OUT-8
 - 10) KEY OUT-7
 - 11) KEY OUT-6
 - 12) KEY OUT-5
 - 13) KEY OUT-4
 - 14) KEY OUT-3
 - 15) KEY OUT-2
 - 16) KEY OUT-1

- CN02**
- 1) NO CONNECTION
 - 2) KEY IN-6
 - 3) KEY IN-5
 - 4) KEY IN-4
 - 5) KEY IN-3
 - 6) KEY IN-2
 - 7) KEY IN-1
 - 8) KEY OUT-9
 - 9) KEY OUT-8
 - 10) KEY OUT-7
 - 11) KEY OUT-6
 - 12) KEY OUT-5
 - 13) KEY OUT-4
 - 14) KEY OUT-3
 - 15) KEY OUT-2
 - 16) KEY OUT-1

- | | | |
|-------------|-------------------|---------------|
| CN01 | 1) RY-POWER-L | 14) -34V |
| | 2) RY-POWER-H | 15) RY-V_DOOR |
| | 3) RY-INRUSH | 16) GND |
| | 4) GS | 17) BUZZER |
| | 5) RY-BRIGHT | 18) GND |
| | 6) KEY7-AD | 19) RY-VENT-L |
| | 7) RY-SPARE | 20) +5V |
| | 8) VFD FILAMENT1 | 21) RY-TT |
| | 9) RY-NIGHT | 22) +5V |
| | 10) VFD FILAMENT2 | 23) INT |
| | 11) RY-VENT-H | 24) TCO-S |
| | 12) RY-OPTION | 25) RY-MAIN |
| | 13) RY-VENT-M | 26) STB |

6-1 PCB Diagrams (KEY-ML9)

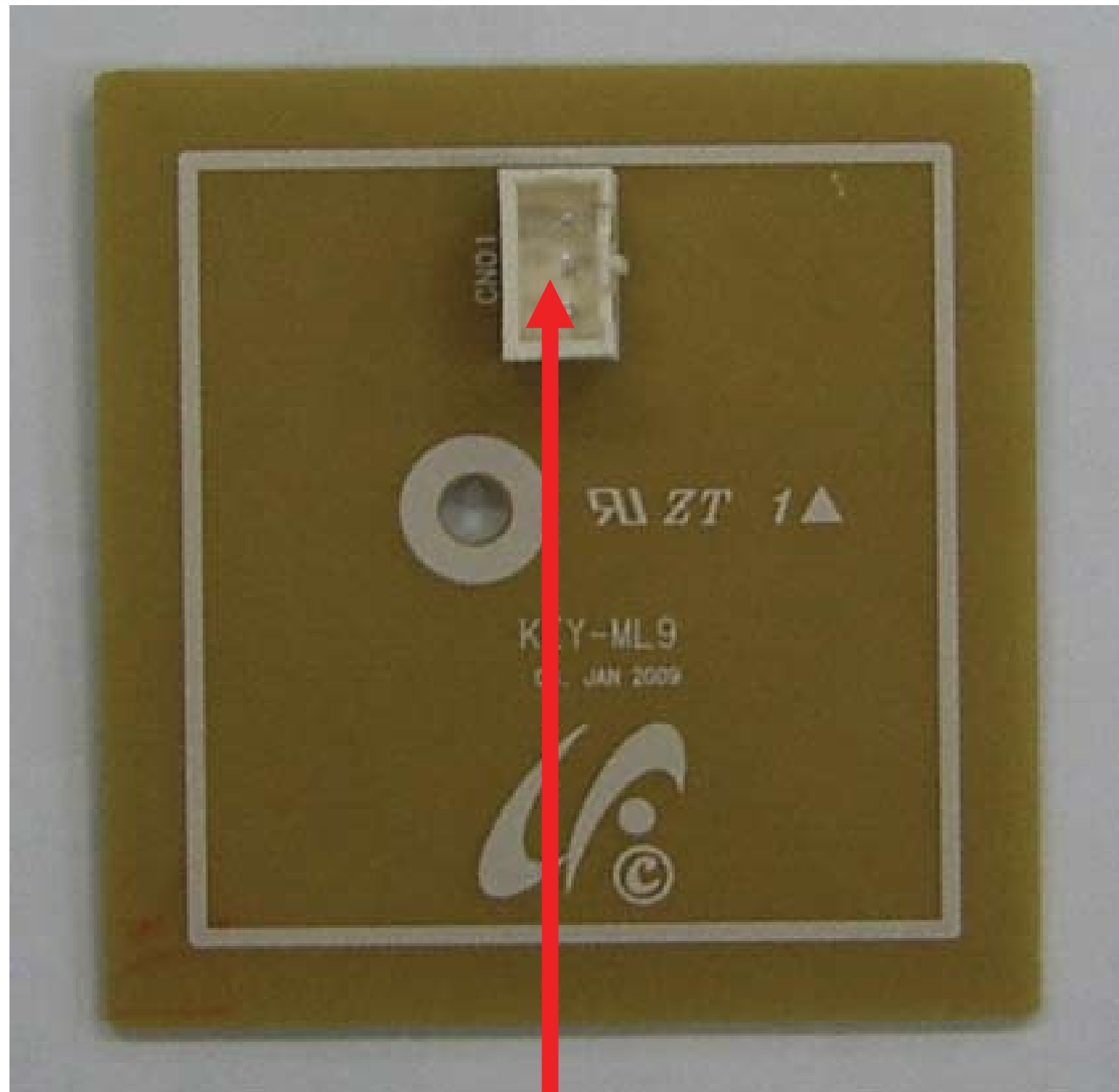
(This Document can not be used without Samsung's authorization)



| No. | Parts Number | Part Name | Function and Rule |
|-----|--------------|---------------------|--|
| 1 | CN01 | Power PBA Connector | A Terminal for Connecting with Power PBA |

6-2 PCB Diagrams (KEY-ML9)

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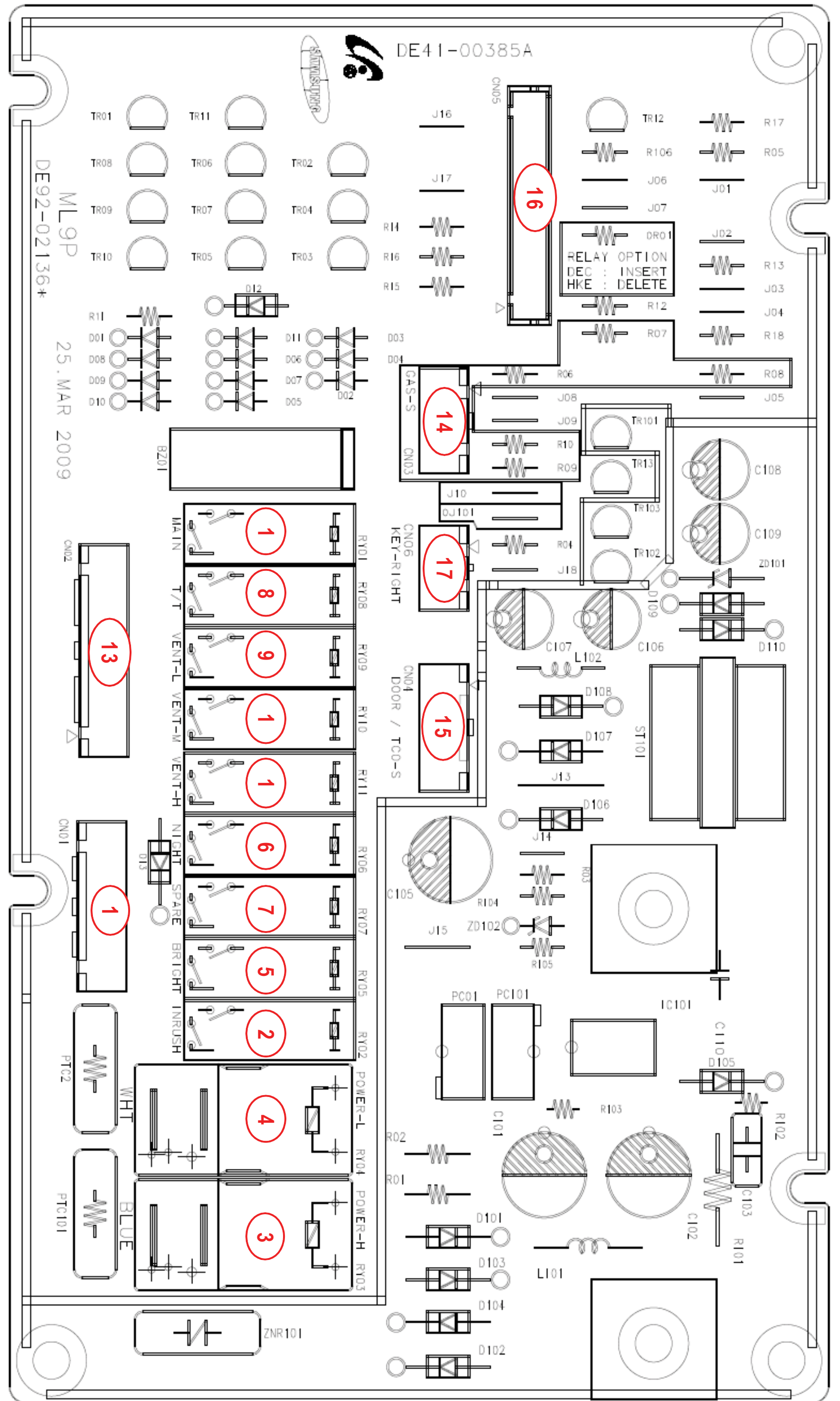


CN01

- 1) +5V
- 2) KEY7-AD
- 3) GND

6-1 PCB Diagrams (ML9P)

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| No. Number | Parts Number | Part Name | Function and Rule |
|------------|--------------|-------------------------------|---|
| 1 | RY01 | Main Relay | Fan, Lamp, T/T Control |
| 2 | RY02 | Inrush Relay | Inrush Electric Current Decrease |
| 3 | RY03 | Power High Relay | MW Power Control(High Power) |
| 4 | RY04 | Power Low Relay | MW Power Control(Low Power) |
| 5 | RY05 | Bright Relay | Turn on High Light |
| 6 | RY06 | Night Relay | Turn on Low Light |
| 7 | RY07 | Spare Relay(for future use) | Spare Relay(for future use) |
| 8 | RY08 | Turn Table Relay | Turn on Turn Table |
| 9 | RY09 | Vent Low Relay | Turn on Low Ventilation |
| 10 | RY10 | Vent Mid Relay | Turn on Mid Ventilation |
| 11 | RY11 | Vent High Relay | Turn on High Ventilation |
| 12 | CN01 | Power & Relay Connector | Connect Power supply and Relay Contact(Inrush, Bright, Night, Spare) |
| 13 | CN02 | Power & Relay Connector | Connect Power supply and Relay Contact(Vent High/Mid/Low, Turn Table, Main) |
| 14 | CN03 | Gas Sensor Connector | A Terminal for Connecting with Gas Sensor |
| 15 | CN04 | Door switch Sensing Connector | A Terminal for Connecting with Door Switch |
| 16 | CN05 | MAIN & POWER PBA Connector | Connect Main and Power PBA |
| 17 | CN6 | Dome Switch Connector | A Terminal for Connecting with Dome Switch |

6-2 PCB Diagrams (ML9P)

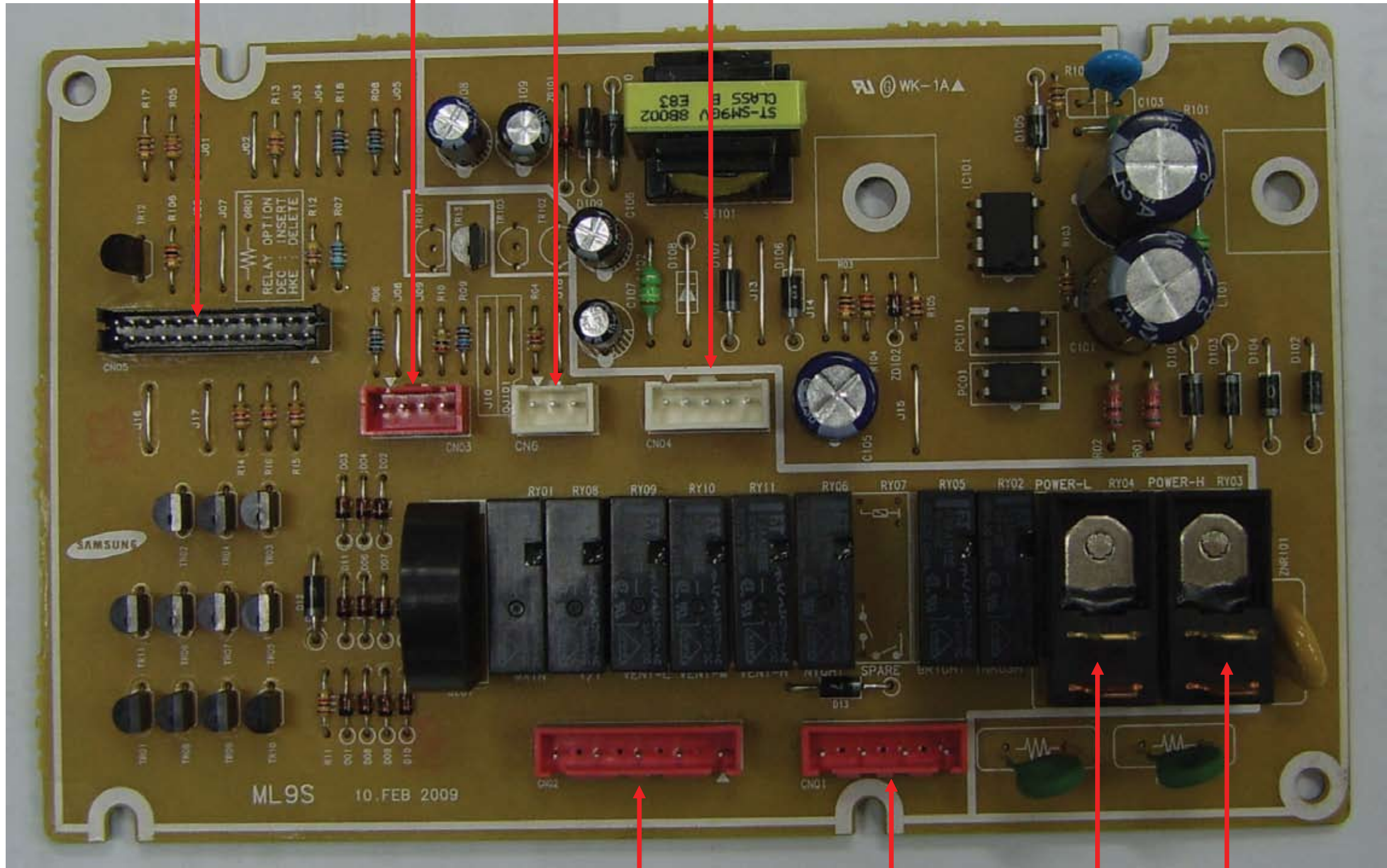
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| | |
|-------------------|---------------|
| CN05 | |
| 1) RY-POWER-L | 14) -34V |
| 2) RY-POWER-H | 15) RY-V_DOOR |
| 3) RY-INRUSH | 16) GND |
| 4) GS | 17) BUZZER |
| 5) RY-BRIGHT | 18) GND |
| 6) KEY7-AD | 19) RY-VENT-L |
| 7) RY-SPARE | 20) +5V |
| 8) VFD FILAMENT1 | 21) RY-TT |
| 9) RY-NIGHT | 22) +5V |
| 10) VFD FILAMENT2 | 23) INT |
| 11) RY-VENT-H | 24) TCO-S |
| 12) RY-OPTION | 25) RY-MAIN |
| 13) RY-VENT-M | 26) STB |

| | |
|-------------------|--|
| CN03 | |
| 1) GAS SENSOR(S1) | |
| 2) GAS SENSOR(S2) | |
| 3) GAS SENSOR(H1) | |
| 4) GAS SENSOR(H2) | |

| | |
|----------------|--|
| CN04 | |
| 1) DOOR SWITCH | |
| 2) GND | |
| 3) DOOR SWITCH | |
| 4) TCO | |
| 5) GND | |

| | |
|------------|--|
| CN6 | |
| 1) +5V | |
| 2) KEY7-AD | |
| 3) GND | |



| | |
|---------------|--|
| CN02 | |
| 1) VENT HIGH | |
| 2) NO PIN | |
| 3) VENT MID | |
| 4) NO PIN | |
| 5) VENT LOW | |
| 6) NO PIN | |
| 7) TURN TABLE | |
| 8) NO PIN | |
| 9) MAIN | |

| | |
|--------------------|--|
| CN01 | |
| 1) AC POWER (LIVE) | |
| 2) NO PIN | |
| 3) INRUSH | |
| 4) NO PIN | |
| 5) BRIGHT / NIGHT | |
| 6) NO PIN | |
| 7) SPARE | |

| | |
|---|--|
| RY03 | |
| 1) POWER RELAY CONTACT1(HVT POWER1) AC POWER NEUTAL (AC98V ~ 144V) | |
| 2) POWER RELAY CONTACT2(HVT POWER2) | |

| | |
|---|--|
| RY04 | |
| 1) POWER RELAY CONTACT1(HVT POWER1) AC POWER NEUTAL (AC98V ~ 144V) | |
| 2) POWER RELAY CONTACT2(HVT POWER3) | |

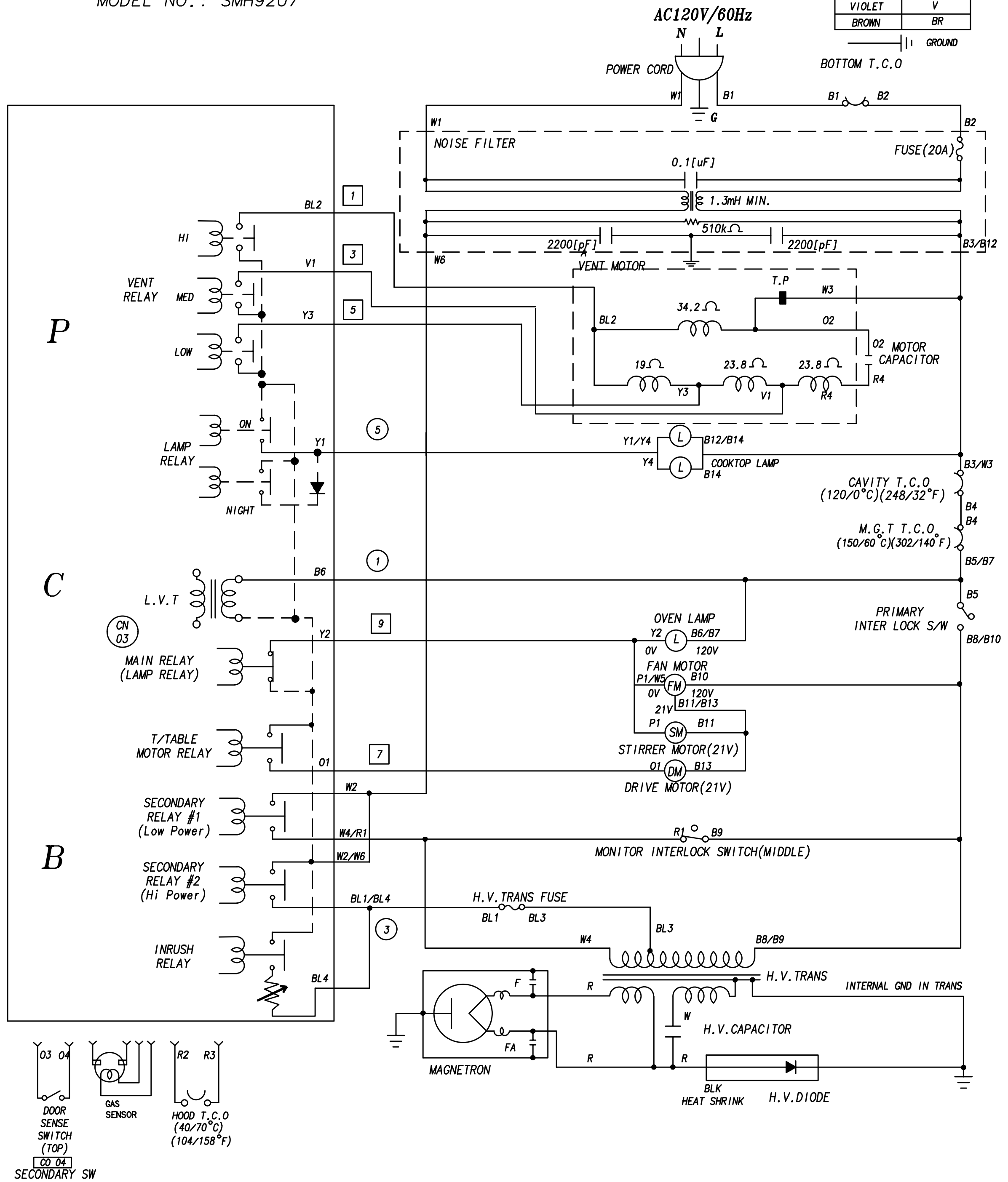
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SCHEMATIC DIAGRAM

WARNING
POWER MUST BE DISCONNECTED
BEFORE SERVICING THIS APPLIANCE

| COLOR | SYMBOL |
|--------|--------|
| GRAY | GR |
| WHITE | W |
| BLACK | B |
| RED | R |
| BLUE | BL |
| ORANGE | O |
| YELLOW | Y |
| GREEN | G |
| PINK | P |
| AZURE | A |
| VIOLET | V |
| BROWN | BR |

MODEL NO.: SMH9207



7-1 Wiring Diagrams

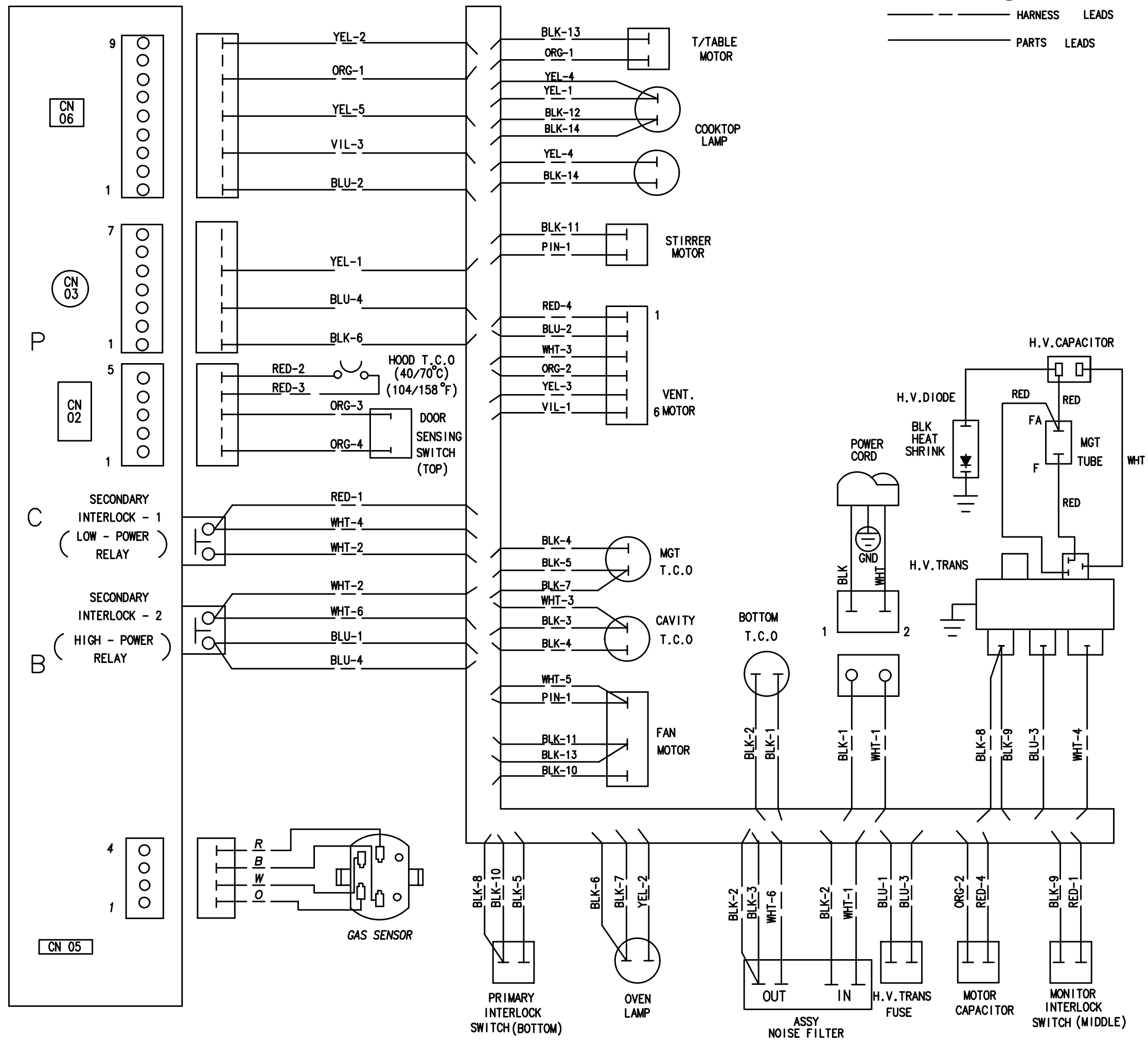
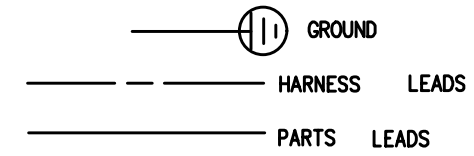
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WIRING DIAGRAM

WARNING
POWER MUST BE DISCONNECTED
BEFORE SERVICING THIS APPLIANCE

MODEL NO.: SMH9207

| COLOR | SYMBOL |
|--------|--------|
| GRAY | GRA |
| WHITE | WHT |
| BLACK | BLK |
| RED | RED |
| BLUE | BLU |
| ORANGE | ORG |
| YELLOW | YEL |
| GREEN | GRN |
| PINK | PIN |
| AZURE | AZU |
| VIOLET | VIL |



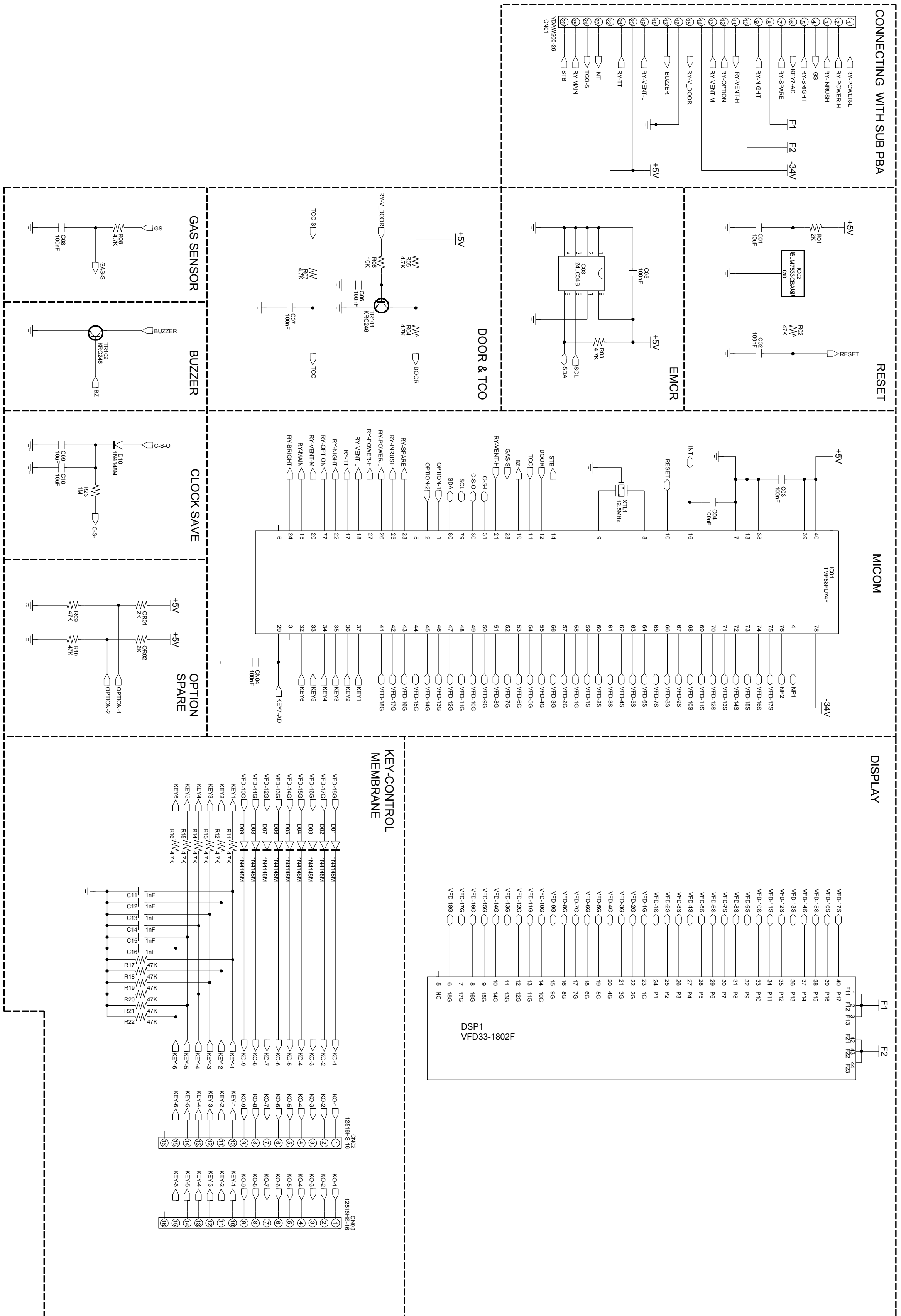
NOTE: FOR SERVICING REPLACEMENT USE 16GA, 105 °C
THERMOPLASTIC COVERED WIRE EXCEPT FOR
HIGH VOLTAGE LEADS OR AS NOTED ON SPECIAL LEADS.

Printed in Malaysia

8. Schematic Diagrams

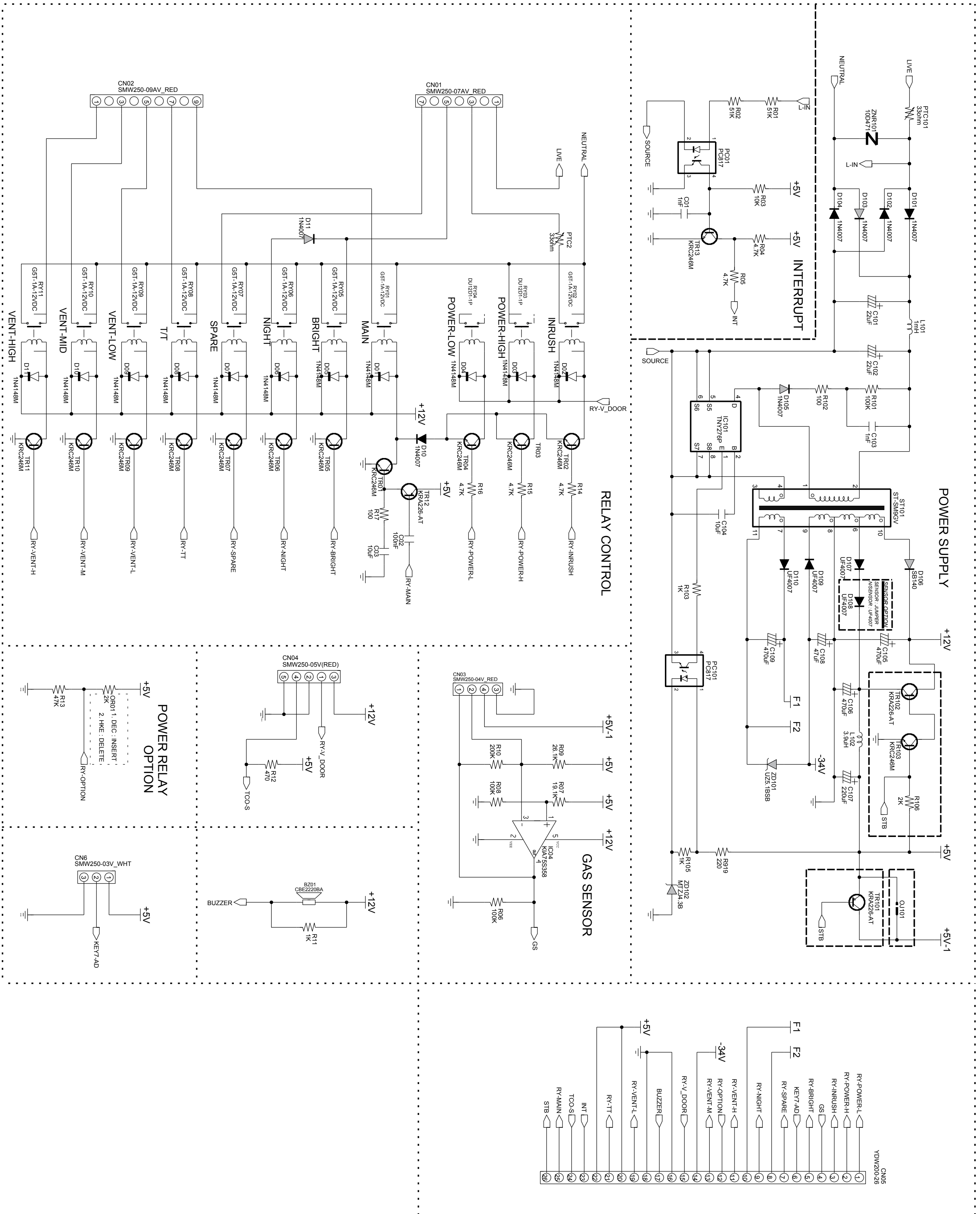
8-1 Schematic Diagrams (ML9-Main)

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8-2 Schematic Diagrams (ML9-Sub)

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