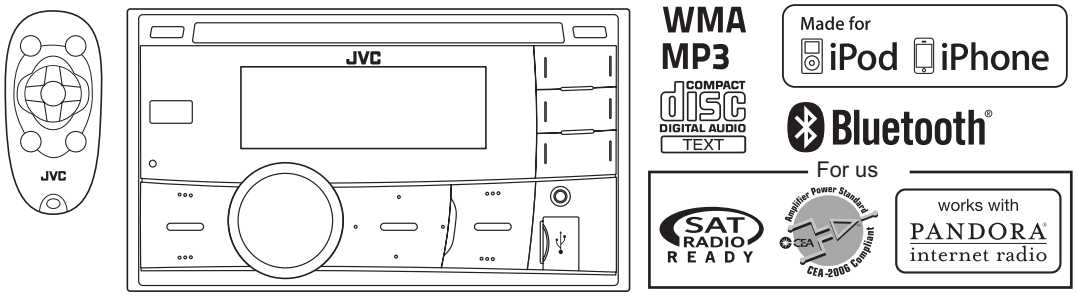
JVC

SERVICE MANUAL

CD RECEIVER

KW-R900BTJ, KW-R900BTU



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

No.MA520<Rev.001>
2012/1

SPECIFICATION

For US

AUDIO AMPLIFIER SECTION		
Power Output		20 W RMS x 4 Channels at 4 Ω and ≤ 1% THD+N
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		80 dBA (reference: 1 W into 4Ω)
Line-Out or Subwoofer-Out Level/Impedance		5 V/20 kΩ load (full scale)
Output Impedance		≤ 600Ω
TUNER SECTION		
FM	Frequency Range	200 kHz step: 87.9 MHz to 107.9 MHz 50 kHz step: 87.5 MHz to 108.0 MHz
	Usable Sensitivity	9.3 dBf (0.8 μV/75Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	40 dB
AM	Frequency Range	10 kHz step: 530 kHz to 1 700 kHz 9 kHz step: 531 kHz to 1 611 kHz
	Sensitivity/Selectivity	20 μV/40 dB
CD PLAYER SECTION		
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Signal-to-Noise Ratio		102 dB
Wow and Flutter		Less than measurable limit
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA/WAV
Maximum Supply Current		DC 5 V ⎓ 1 A
BLUETOOTH SECTION		
Version		Bluetooth 2.1 certified (+EDR)
Power Class		Class 2 Radio
Service Area		10 m (10.9 yd)
Profile		HFP 1.5, OPP 1.1, A2DP 1.2, AVRCP 1.3, PBAP 1.0
GENERAL		
Power Requirement (Operating Voltage)		DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D) (approx)	Installation Size	182 mm × 111 mm × 160 mm (7-3/16" × 4-3/8" × 6-5/16")
	Panel Size	188 mm × 117 mm × 18 mm (7-7/16" × 4-5/8" × 3/4")
Mass		1.8 kg (4 lbs) (excluding accessories)

- Subject to change without notice.
- If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

SPECIFICATION

For ASIA

AUDIO AMPLIFIER SECTION		
Maximum Power Output		50 W per channel
Continuous Power Output (RMS)		20 W per channel into 4Ω, 40 Hz to 20 000 Hz at less than 1% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		80 dB
Line-Out or Subwoofer-Out Level/Impedance		5 V/20 kΩ load (full scale)
Output Impedance		≤ 600Ω
TUNER SECTION		
FM	Frequency Range	87.5 MHz to 108.0 MHz
	Usable Sensitivity	9.3 dBf (0.8 μV/75Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	40 dB
AM	Frequency Range	531 kHz to 1 611 kHz
	Sensitivity/Selectivity	20 μV/40 dB
CD PLAYER SECTION		
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Signal-to-Noise Ratio		102 dB
Wow and Flutter		Less than measurable limit
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA/WAV
Maximum Supply Current		DC 5 V ⎓ 1 A
BLUETOOTH SECTION		
Version		Bluetooth 2.1 certified (+EDR)
Power Class		Class 2 Radio
Service Area		10 m
Profile		HFP 1.5, OPP 1.1, A2DP 1.2, AVRCP 1.3, PBAP 1.0
GENERAL		
Power Requirement (Operating Voltage)		DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size	approx. 178 mm × 100 mm × 156 mm
	Panel Size	approx. 184 mm × 112 mm × 22 mm
Mass		1.5 kg (excluding accessories)

• Subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

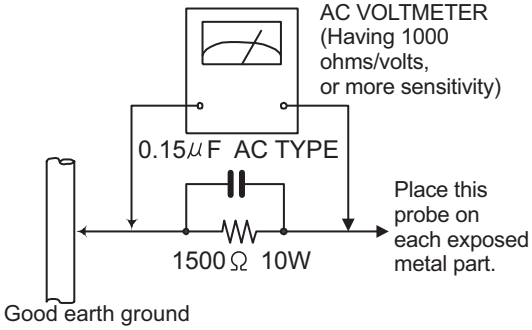
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

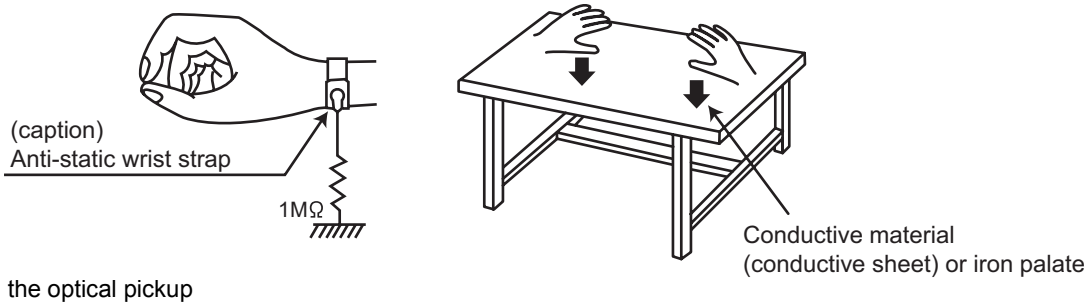
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

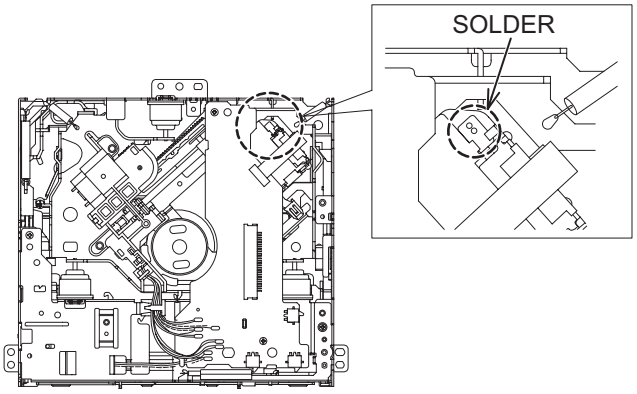
1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the card wire is disconnected from the connector on the servo board. (If the card wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the card wire.



1.8 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION :
(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(Others) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.CAUTION : Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

4.CAUTION : This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

(For U.S.A.)
CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(Others)
CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

ACHTUNG: Sichtbare und/oder unsichtbare Laserstrahlung der Klasse 1M bei offenen Abdeckungen. Nicht direkt mit optischen Instrumenten betrachten.

ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

VOORZICHTIG: Zichtbare en/of onzichtbare klasse 1M laserstralen indien geopend. Bekijk niet direct met optische instrumenten.

ATTENZIONE: Radiazione laser in classe 1M visibile e/o invisibile quando aperto. Non osservare direttamente con strumenti ottici.

VARNING: Synlig och/eller osynlig laserstrålning, klass 1M, när denna del är öppnad. Betrakta ej strålen med optiska instrument.

VARO!: Avattaessa olet alttiina nakyvalle ja/tai näkymättömälle luokan 1M lasersateilylle. Älä tarkastele sitä optisen laitteen läpi.

ADVARSEL: Synlig og/eller usynlig klasse 1M-laserstråling ved åbning. Se ikke direkte med optiske instrumenter.

AVISO: Radiación láser de clase 1M visible y/o invisible cuando está abierto. No mirar directamente con instrumental óptico.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe directamente com instrumentos ópticos.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos óticos.

ПРЕДУПРЕЖДЕНИЕ: В открытом состоянии происходит видимое и/или невидимое излучение лазера класса 1M. Не смотрите непосредственно в оптические инструменты.

UWAGA: Otwarcie spowoduje narażenie na widzialne i/lub niewidzialne promieniowanie lasera klasy 1M. Nie patrzeć bezpośrednio w przyrządy optyczne.

UPOZORNĚNÍ: Při otevření vydává viditelné popř. neviditelné laserové ozáření třídy 1M. Nedívejte se do otvoru přímo s optickými nástroji.

FIGYELMEZTETÉS: Látható és/vagy láthatatlan 1M osztályú sugárzás nyitott állapotban. Ne nézze közvetlenül optikai műszerekkel.

注意：打開蓋板可能會產生可見或不可見的 1M 級鐳射。
不要使用光學儀器直接進行窺視。

注意：打开盖板可能会产生可见或不可见的 1M 级镭射。
不要使用光学仪器直接进行窥视。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحا. تجنب النظر مباشرة داخل الجهاز باستخدام أدوات بصرية.

احتياط: هنگامی که باز گردد، تشعشع مرئی و یا نامرئی کلاس 1M لیزر وجود دارد. با لوازم چشمی مستقیماً به آن نگاه نکنید.

주의: 개방하면 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

REPRODUCTION AND POSITION OF LABELS and PRINT

WARNING LABEL and PRINT

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44609-003A

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body (Used model: KW-R900BTJ)

3.1.1 Removing the Front panel (See Fig.1)

(1) Remove the 2 screws **A** attaching the both side of the Front panel.
(2) Disengage 4 hooks **a** engaged both side of the Front panel.

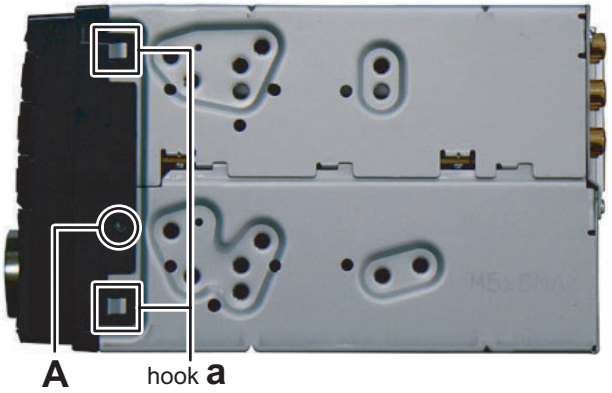


Fig.1

3.1.2 Removing the Bottom chassis (See Fig.2, 3)

(1) Remove the 2 screws **B** attaching the both side of the Bottom chassis. (See Fig.2)

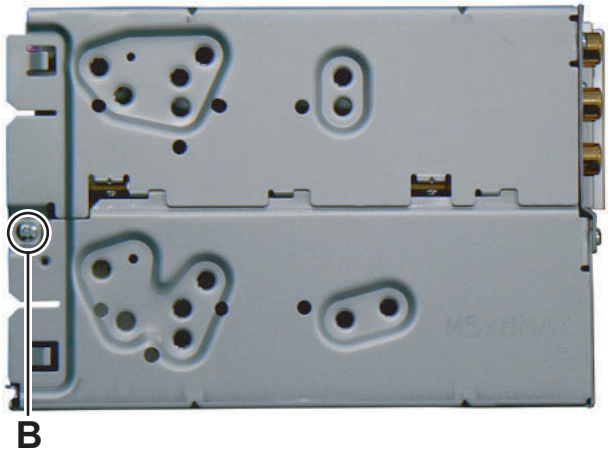


Fig.2

(2) Remove the 3 screws **C** attaching the Bottom chassis. (See Fig.3)
(3) Remove the 3 screws **D** and 1 screw **E** attaching the Heat sink. (See Fig.3)
(4) Remove the 6 screws **F** and 1 screw **G** attaching the Rear bracket. (See Fig.3)

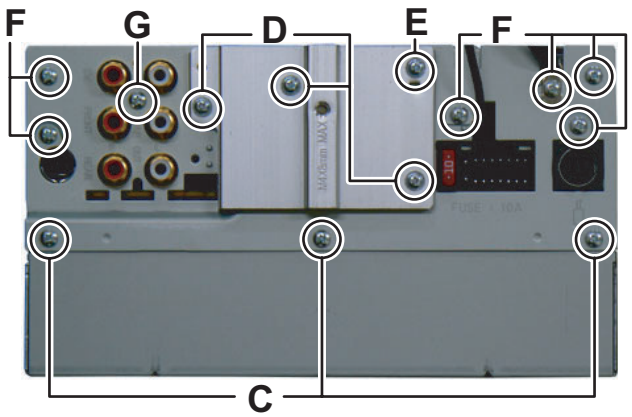


Fig.3

3.1.3 Removing the Electric unit (See Fig.4, 5, 6)

(1) Remove the 2 screws **H** and one screw **J** attaching the Side plate. (See Fig.4)

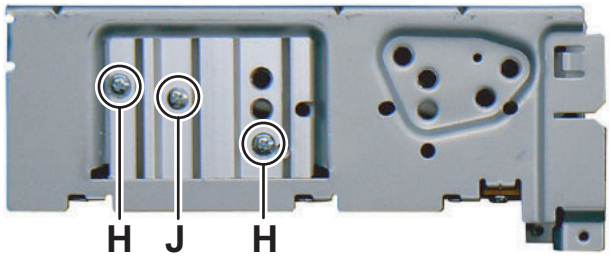


Fig.4

(2) Remove the 3 screws **K** attaching the Electric unit. (See Fig.5)

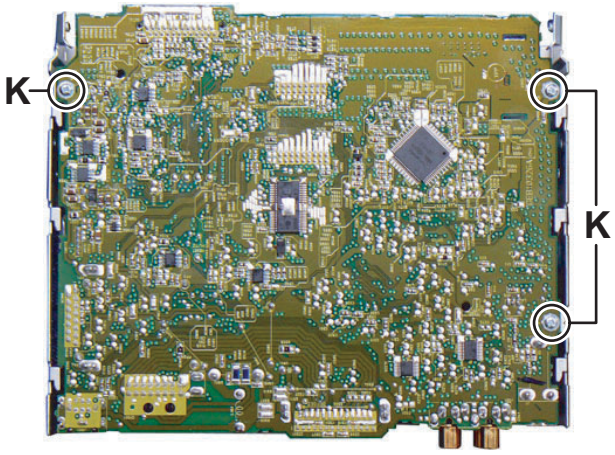


Fig.5

(3) Disconnect B-B connector CN502 of the Electric unit connected the CD mechanism and Electric unit. (See Fig.6)

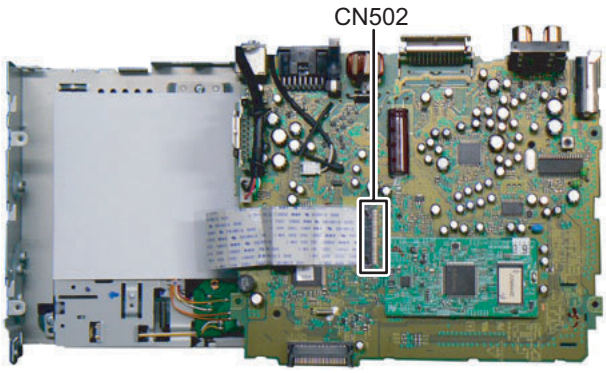


Fig.6

3.1.4 Removing the CD mechanism (See Fig.7)

(1) Remove the 3 screws **L** attaching the CD mechanism.

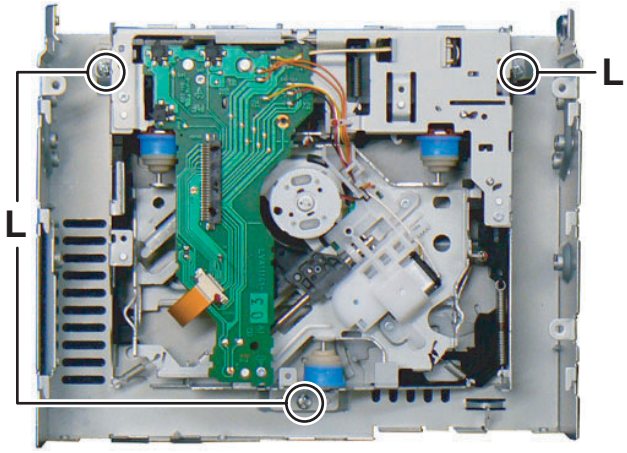


Fig.7

3.1.5 Removing the Switch unit (See Fig.8)

(1) Remove the Volume knob.

(2) Disconnect the connector wire connected to connector CN602 of the Switch unit.

(3) Remove the 13 screws **M** attaching the Switch unit.

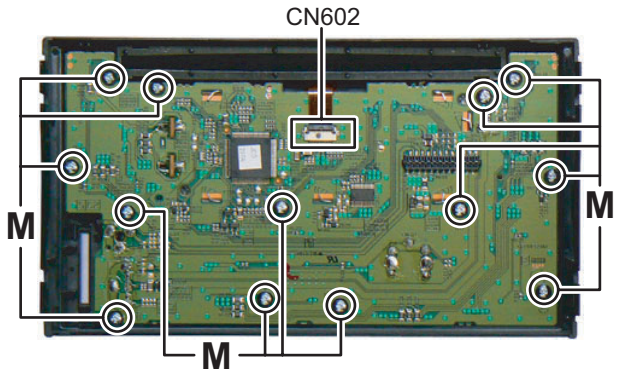


Fig.8

3.2 CD mechanism assembly section

3.2.1 Removing the Mecha control board

(1) Solder the short land on the pickup. (See Fig. 1)

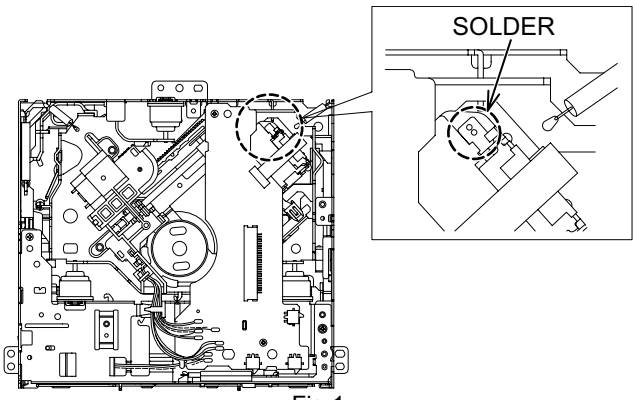


Fig.1

(2) Remove the 8 wires from the Mecha control board. (See Fig.2)

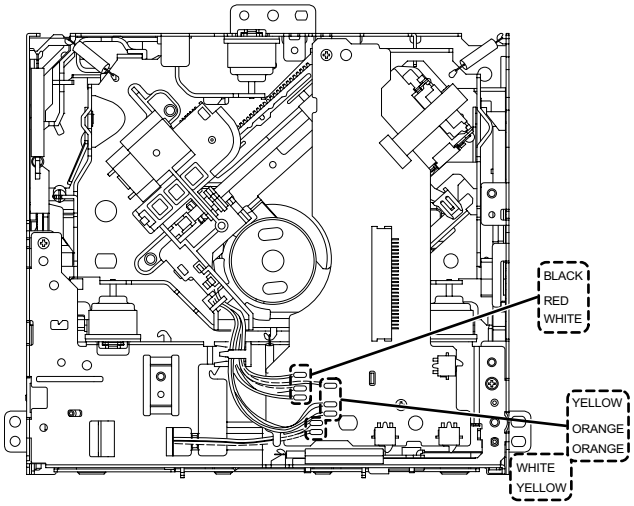


Fig.2

(3) Disconnect the flexible wire from the pickup connected to the connector CN102 on the Mecha control board. (See Fig.3)

(4) Remove the 2 screws **A** attaching the Mecha control board. (See Fig.3)

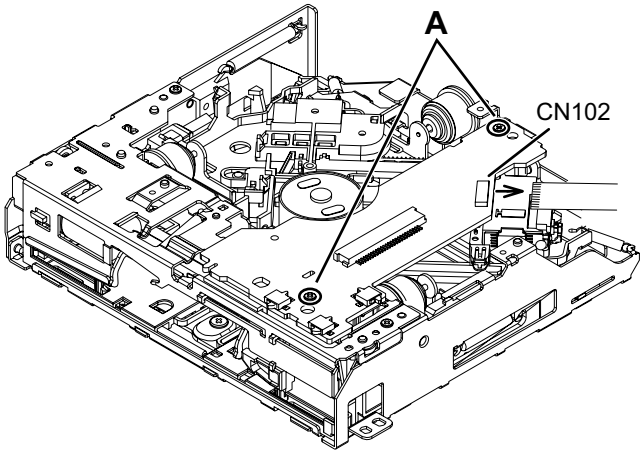


Fig.3

3.2.2 Removing the Traverse mechanism (See Fig.4, 5)

(1) Remove the 5 springs from the traverse mechanism. (See Fig.4)

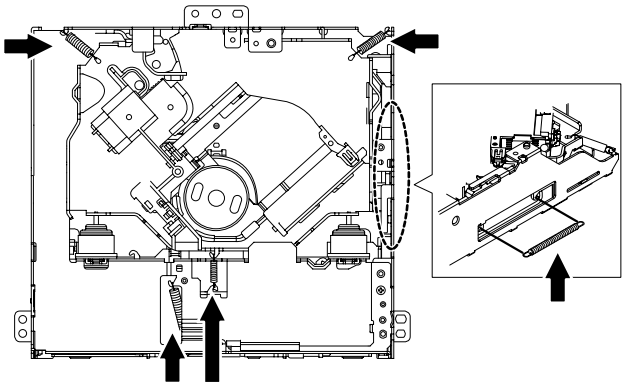


Fig.4

(2) Remove the 3 screws **B** attaching the bottom frame assembly. (See Fig.5)

(3) Remove the 3 dumpers from the bottom frame assembly. (See Fig.5)

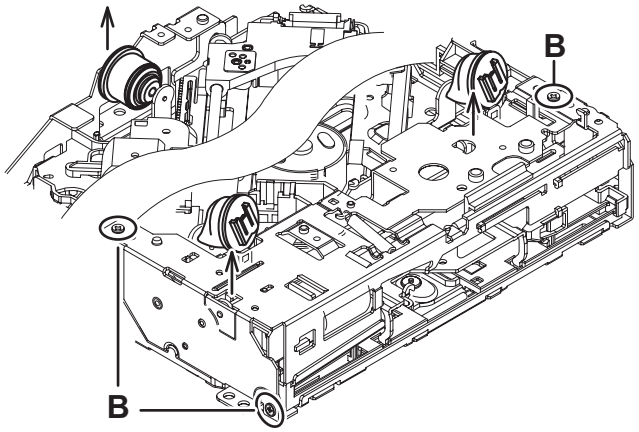


Fig.5

3.2.3 Removing the Pickup (See Fig.6, 7)

(1) Remove the 2 screws **C** attaching the feed bracket assembly. (See Fig.6)

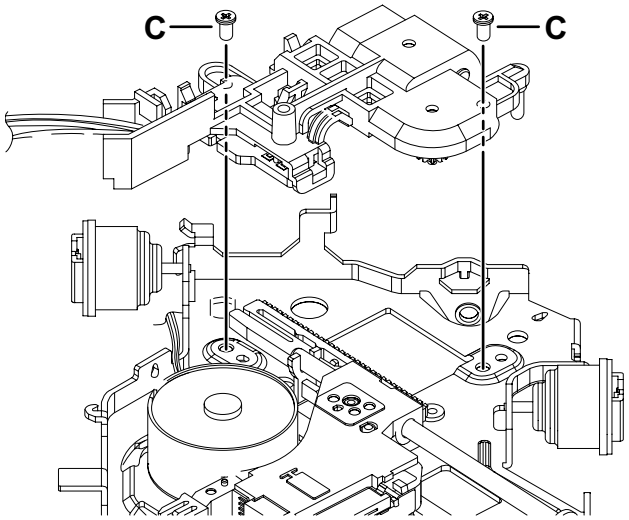


Fig.6

(2) Remove the shaft from the TM base. (See Fig.7)
(3) Disengage the hook **a** on the pickup from the TM base. (See Fig.7)

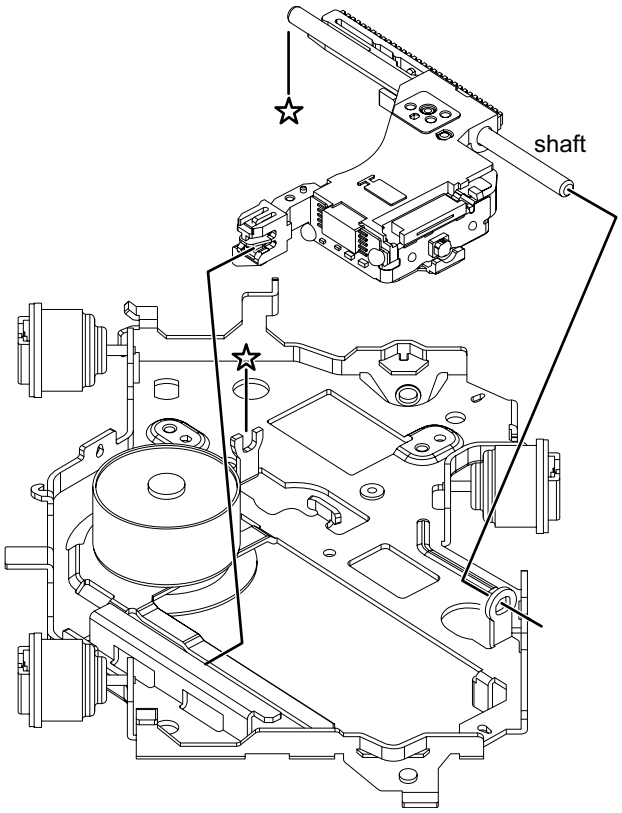


Fig.7

3.2.4 Removing the Spindle motor (See Fig.8. 9)

(1) Remove the HC CL. Spring from the HC CL. base and the TM base, and then lift up the HC CL. base. (See Fig.8)

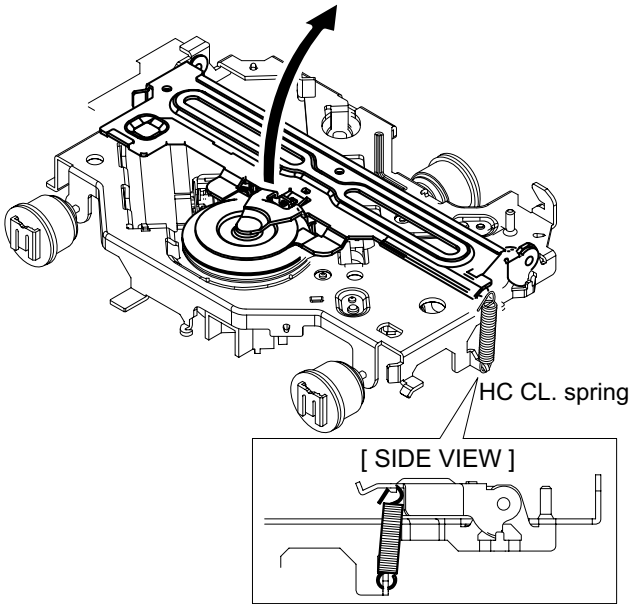


Fig.8

(2) Remove the HC CL. base from the holes on the TM base. (See Fig.9)

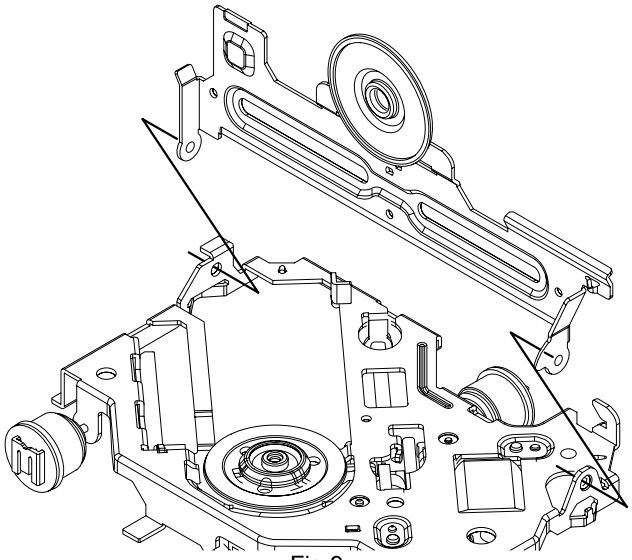


Fig.9

(3) Remove the 2 screws **D** attaching the spindle motor. (See Fig.10)

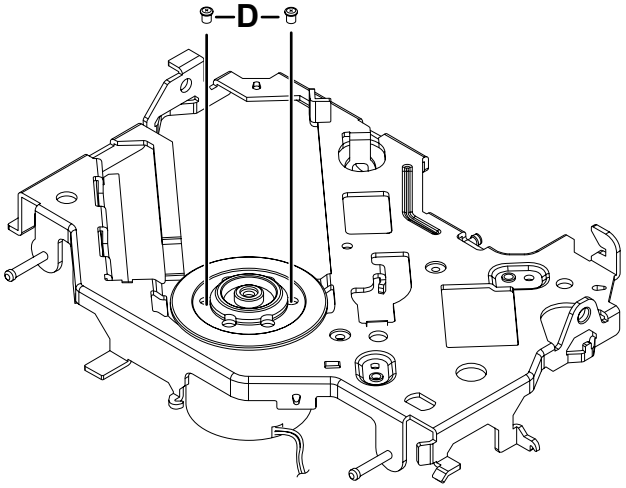


Fig.10

3.2.5 Removing the Loading motor

(1) Remove the roller arm assembly from the bottom frame assembly. (See Fig.11)

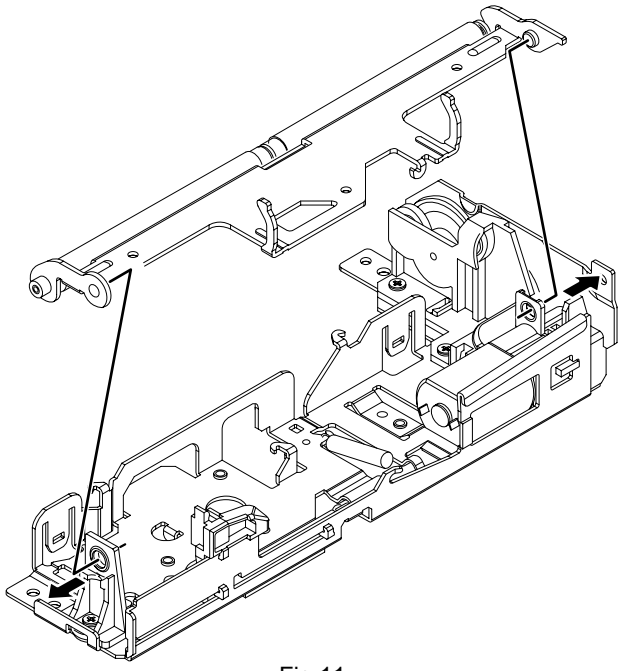


Fig.11

(2) Remove the 2 screws **E** attaching the loading motor assembly, and then remove the loading motor assembly in the direction of the arrow. (See Fig.12)

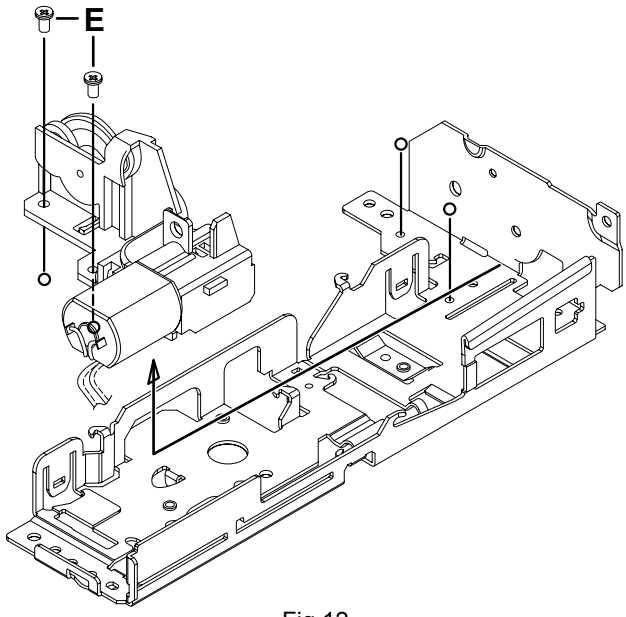


Fig.12

SECTION 4
ADJUSTMENT

4.1 General Mode Functions

4.1.1 Micon Software / Firmware Version Checking Mode
Refer to “Service Mode” .

4.1.2 Service Mode
Refer to “Service Mode” .

4.1.3 Production Test Mode
Key to enter:
(1) In any Source
(2) In "Power On" condition, press and hold [MENU] + [POWER] for 2s
(3) "PRODUCTION TEST" to be displayed in the display.
(4) Power off and On the unit to return to Normal mode.

Default setting value under Production Mode:

Item	Setting
Volume	0 to 44(max)
Beep	OFF
Demo	OFF
SUB.W LEVEL	SUB.W 04
SUB.W LPF	MID 85Hz
EQ	FLAT

* Only in "Power On" condition will be able to enter the Production Mode. Setting Value cannot be store under Production Mode.

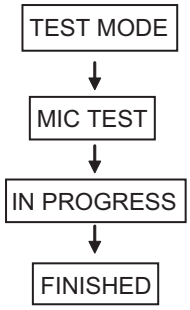
4.1.4 Volume 44
Key to enter:
(1) In any Source
(2) In "Power On" condition, press and hold [MENU] + [POWER] for 2s → to enter Production Mode.
(3) Press and hold [BACK] + [UP] 3s → to enter Vol 44 mode
(4) LCD display shall display the following information after entering this mode.

V O L U M E 4 4

Details:The display will shown "VOLUME 44" for 2s. After 2s,it will return back to the initial source.

(5) Power off and On the unit to return to Normal mode.
* Only applicable under Production Mode.

4.1.5 Bluetooth Test Mode
Key to enter:
(1) In any Source
(2) Press and hold [BACK] + [POWER] 3s
(3) Press [VOL] Key to select the display item
(4) Select "Mic Test" to test the Quality of the mic (Clear and no noise).



(5) Once "FINISHED", power off and On the unit to return to Normal mode.

4.1.6 Bluetooth Connectivity Check Mode
* BT Connectivity Check Mode is for user checking BT connectivity.
Key to enter:
(1) Only In Bluetooth mode with the attached USB Bluetooth Adapter
(2) Press and hold [Phone]+ Press [VOL] 3s → to perform BT connectivity check mode

4.1.7 User Entry Mode
Key to enter:
(1) Only applicable for J&U series in Tuner Source
(2) Press and hold [DISP] + Press [VOL] 3s
(3) LCD display shall display the following information after entering this mode.

Details:Rename Tuner Station. It can be alphabets/numbers/symbols up to maximum 11 charaters

(4) To rename the Tuner Station, turn [Vol] left or right to select alphabets/number/symbol
(5) Press [⏭] key for next character.
(6) Press [Vol] to enter/confirm the name of the station.
(7) Press [BACK] to exit the mode.

4.2 Service Mode

Force Eject mode

Long Press [Eject]

1DIN: No display on screen as panel will be flipped down.

2DIN: Normal pattern + Eject

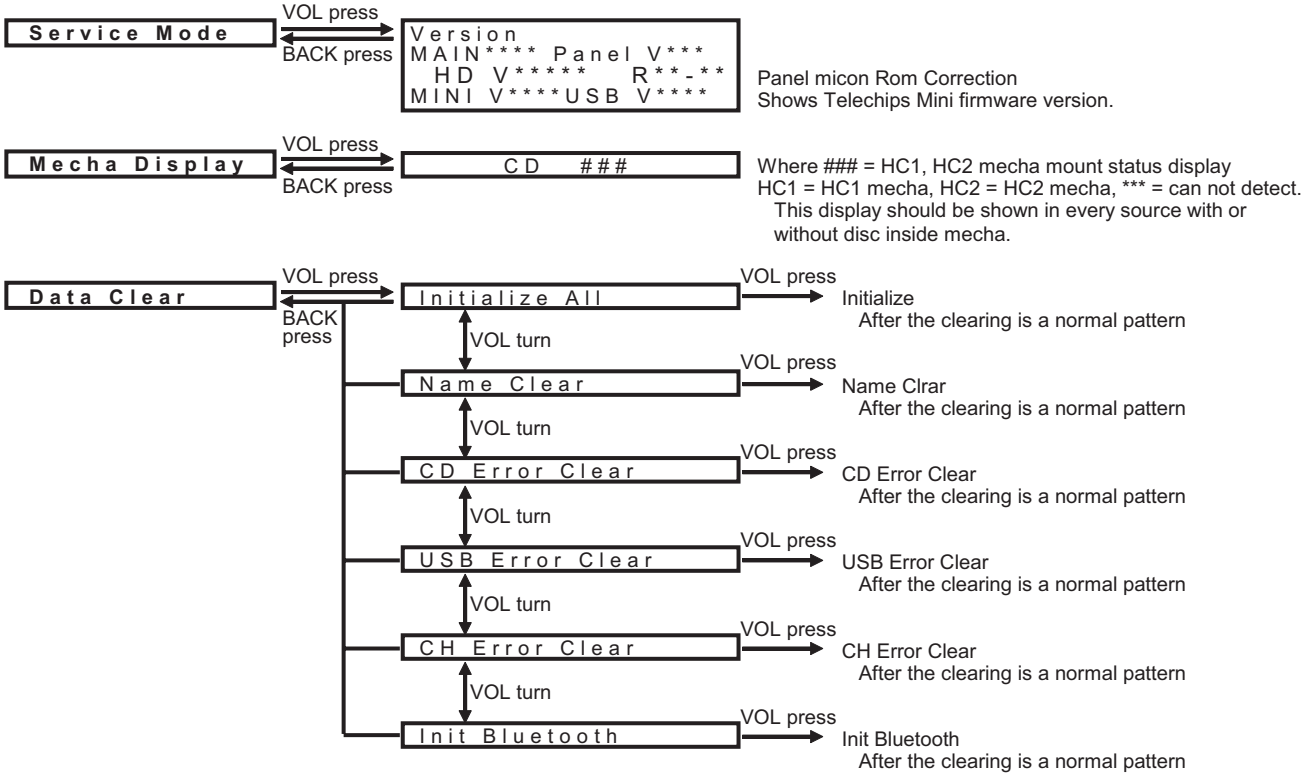
Service mode

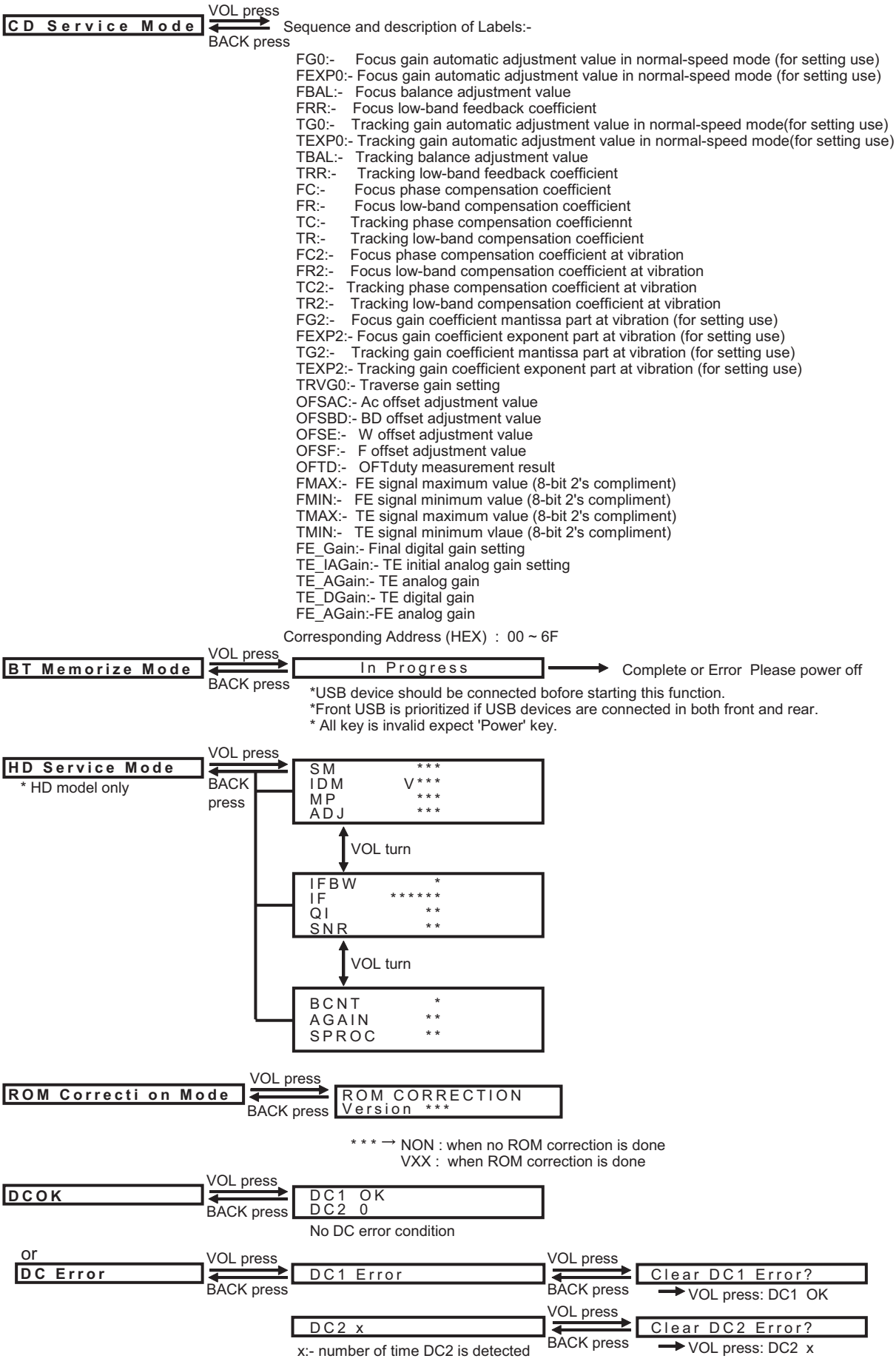
Key to enter:

(1) In any Source

(2) Press and hold [MENU] + [DOWN] for 3s

(3) Mode Select: [VOL] turn




CD Service Mode
VOL press
BACK press
Sequence and description of Labels:-
FG0:- Focus gain automatic adjustment value in normal-speed mode (for setting use)
FEXP0:- Focus gain automatic adjustment value in normal-speed mode (for setting use)
FBAL:- Focus balance adjustment value
FRR:- Focus low-band feedback coefficient
TG0:- Tracking gain automatic adjustment value in normal-speed mode(for setting use)
TEXP0:- Tracking gain automatic adjustment value in normal-speed mode(for setting use)
TBAL:- Tracking balance adjustment value
TRR:- Tracking low-band feedback coefficient
FC:- Focus phase compensation coefficient
FR:- Focus low-band compensation coefficient
TC:- Tracking phase compensation coefficiennt
TR:- Tracking low-band compensation coefficient
FC2:- Focus phase compensation coefficient at vibration
FR2:- Focus low-band compensation coefficient at vibration
TC2:- Tracking phase compensation coefficient at vibration
TR2:- Tracking low-band compensation coefficient at vibration
FG2:- Focus gain coefficient mantissa part at vibration (for setting use)
FEXP2:- Focus gain coefficient exponent part at vibration (for setting use)
TG2:- Tracking gain coefficient mantissa part at vibration (for setting use)
TEXP2:- Tracking gain coefficient exponent part at vibration (for setting use)
TRVG0:- Traverse gain setting
OFSAC:- Ac offset adjustment value
OFSBD:- BD offset adjustment value
OFSE:- W offset adjustment value
OFSF:- F offset adjustment value
OFTD:- OFTduty measurement result
FMAX:- FE signal maximum value (8-bit 2's compliment)
FMIN:- FE signal minimum value (8-bit 2's compliment)
TMAX:- TE signal maximum value (8-bit 2's compliment)
TMIN:- TE signal minimum vlaue (8-bit 2's compliment)
FE_Gain:- Final digital gain setting
TE_IAGain:- TE initial analog gain setting
TE_AGain:- TE analog gain
TE_DGain:- TE digital gain
FE_AGain:-FE analog gain
Corresponding Address (HEX) : 00 ~ 6F
BT Memorize Mode
VOL press
BACK press
In Progress
Complete or Error Please power off
*USB device should be connected bofore starting this function.
*Front USB is prioritized if USB devices are connected in both front and rear.
* All key is invalid expect 'Power' key.
HD Service Mode
* HD model only
VOL press
BACK press
SM ***
IDM V***
MP ***
ADJ ***
VOL turn
IFBW *
IF ******
QI **
SNR **
VOL turn
BCNT *
AGAIN **
SPROC **
ROM Correcti on Mode
VOL press
BACK press
ROM CORRECTION
Version ***
*** → NON : when no ROM correction is done
VXX : when ROM correction is done
DCOK
VOL press
BACK press
DC1 OK
DC2 0
No DC error condition
or
DC Error
VOL press
BACK press
DC1 Error
VOL press
BACK press
Clear DC1 Error?
VOL press: DC1 OK
DC2 x
VOL press
BACK press
Clear DC2 Error?
VOL press: DC2 x
x:- number of time DC2 is detected

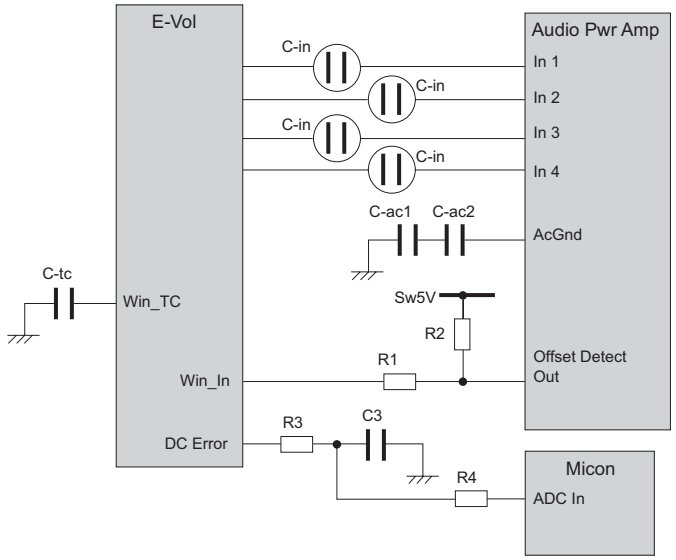
4.3 DC Offset error description

4.3.1 DC Offset detection circuit design

- Purpose:
  To prevent breakdown, burning and emitting smoke from customer's car speaker when occur DC offset between speaker output "+" and "-".
- Target:
  Detect DC offset, then stop the Power Amp operation and shift to specified condition.

4.3.2 Possible causes of DC offset at speaker output lines

(1) Mis-connection for Speaker output for example touch to car body or battery line.
(2) Current leak of coupling capacitor for Power IC input.
(3) Current leak of Ac-GND capacitor for Power IC Ac-GND.
(4) Capacitor shorted of above parts due to foreign object.



4.3.3 Type of checking

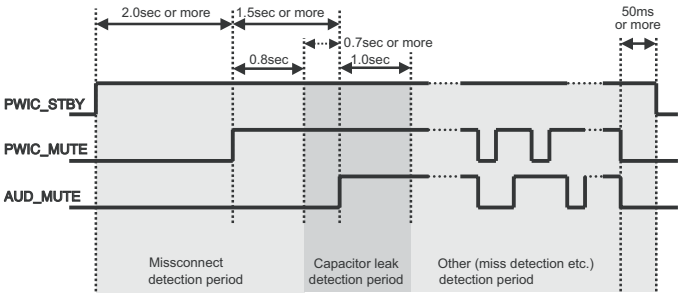
4.3.3.1 To detect DC Offset Error

- Mis-connection
  - Short any one speaker out line to GND or Vcc
- Capacitor leak
  - Parallel 330kΩ to either any one of coupling cap or Ac-GND cap (to simulate current leakage of capacitor)
  - Shorted either any one of coupling cap or Ac-GND cap.

4.3.3.2 To avoid mis-judge music as DC offset error

- Low frequency signal (17Hz or 20Hz) is more prone to cause mis-detection.
  - Play 17Hz (or 20Hz) signal and make sure micon will not detect and judge this as happen DC offset error.

4.3.4 Detection Timing chart



4.3.5 Manipulate after detect DC Offset

- If detected error 10 consecutive times, and 10th error occurred in "Mis-connect detection period", judge as "Mis-connect".
- If detected error 10 consecutive times, and 10th error occurred in "Capacitor leak detection period", judge as "Capacitor leak ".
- If detected error 10 consecutive times, and 10th error occurred in "Other detection period" and detected another 10 errors consecutively, then judge as "Other".
- If judge as "Mis-connect".
  - turn off speaker output.
  - display "MIS WIRING" → "CHK WIRING" → "THEN RESET" → "UNIT".
  - key access disable except button of Eject, Reset and service mode
  - record error in EEPROM "DC1 ERR"
  - Set is able to be recovered by Reset button.
- If judge as "Capacitor leak ".
  - turn off speaker output.
  - display "WIRING" → "CHK WIRING" → "THEN RESET" → "UNIT".
  - key access disable except button of Eject, Reset and service mode
  - record error in EEPROM "DC2 #" (# means counter number)
  - Set can be recovered by pressing the Reset button before the capacitor leak error counter reach "DC2 4".
    After that, only clear the counter back to "0" can recover the set.
- If judge as "Other" (manipulation same as mis-connect)

4.3.6 How to clear the DC offset error recorded in EEPROM

Refer to"Service Mode".

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC

JVC KENWOOD Corporation
Car Electronics Business Group 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525, Japan

(No.MA520<Rev.001>)

Printed in Japan
VSE

SCHEMATIC DIAGRAMS

CD RECEIVER

KW-R900BTJ KW-R900BTU

■ PRECAUTIONS ON SCHEMATIC DIAGRAMS

- Due to the improvement in performance, some part numbers shown in the circuit diagrams may not agree with those indicated in the Parts List.
- The parts numbers, values and rated voltage etc. in the Schematic Diagrams are for reference only.
- Since the circuit diagrams are standard ones, the circuits and circuit constants may be subject to change for improvement without any notice.

■ PRECAUTIONS ON PARTS LIST

- The parts identified by the ⚠ symbol are critical for safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- When ordering chips, screws etc., place bulk orders (unit of tens) whenever possible to improve shipping efficiency.
- There are cases where the actual implemented parts in the sets and the service parts are different. When ordering parts, make sure to refer to the Parts List.

■ PRECAUTIONS ON SERVICE

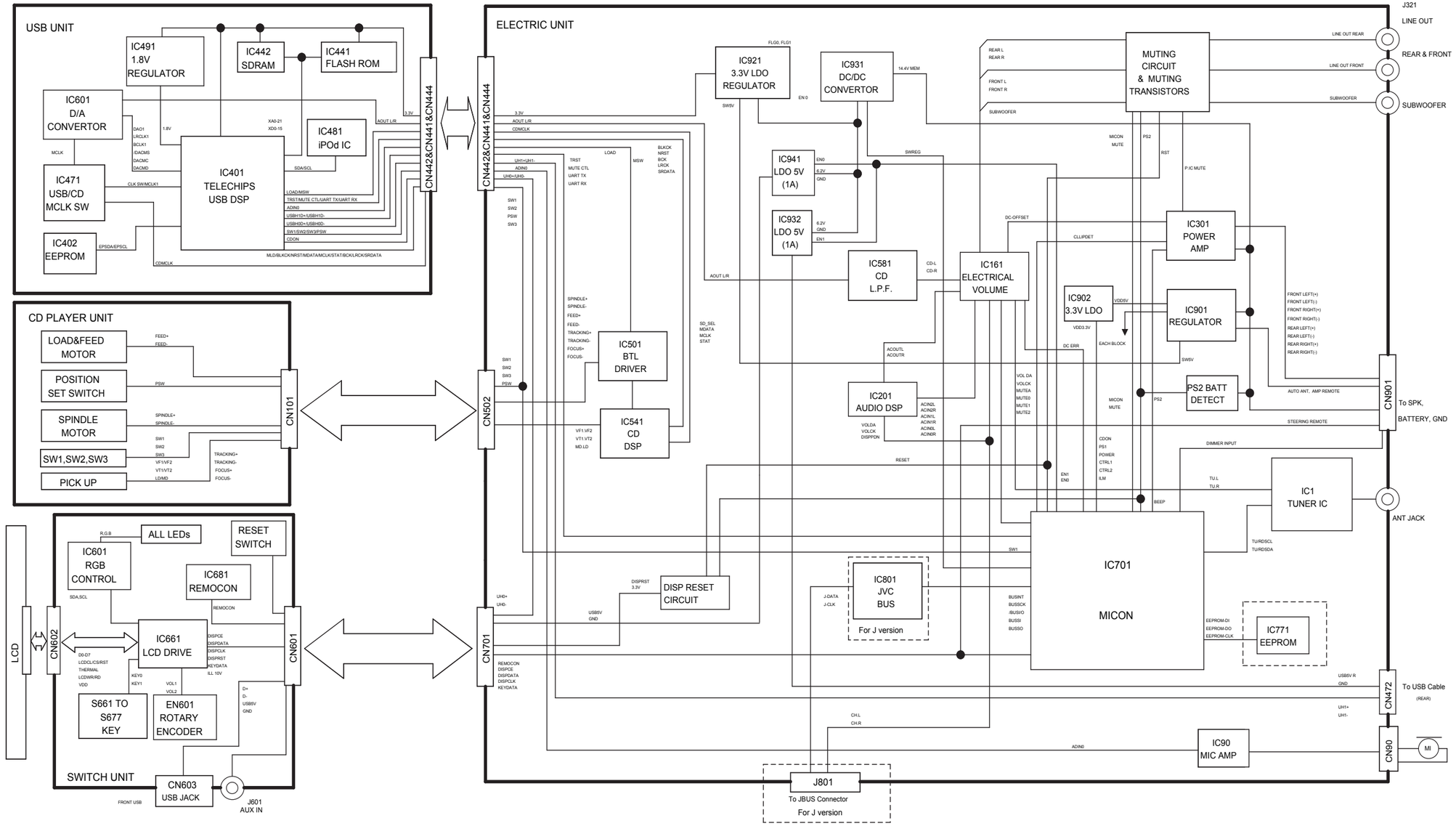
Certain parts of the power circuits and the GNDs differ according to the models. Care must be taken for the following points as the differences are indicated separately in the LIVE GND (⏚) and the ISOLATED (NEUTRAL) GND (⊥).

1. Do not touch the LIVE GND, or do not touch the LIVE GND and the ISOLATED (NEUTRAL) GND at the same time. It may cause an electric shock.
   Before pulling out the chassis or other parts, make sure to pull out the power cord from the wall outlet first.
2. Do not short circuit between the LIVE GND and ISOLATED (NEUTRAL) GND, or never measure the LIVE GND and ISOLATED (NEUTRAL) GND at the same time using measuring instruments (oscilloscope, etc.). It may blow fuses or damage other parts.

■ DEVIATION TOLERANCE RANGE

DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

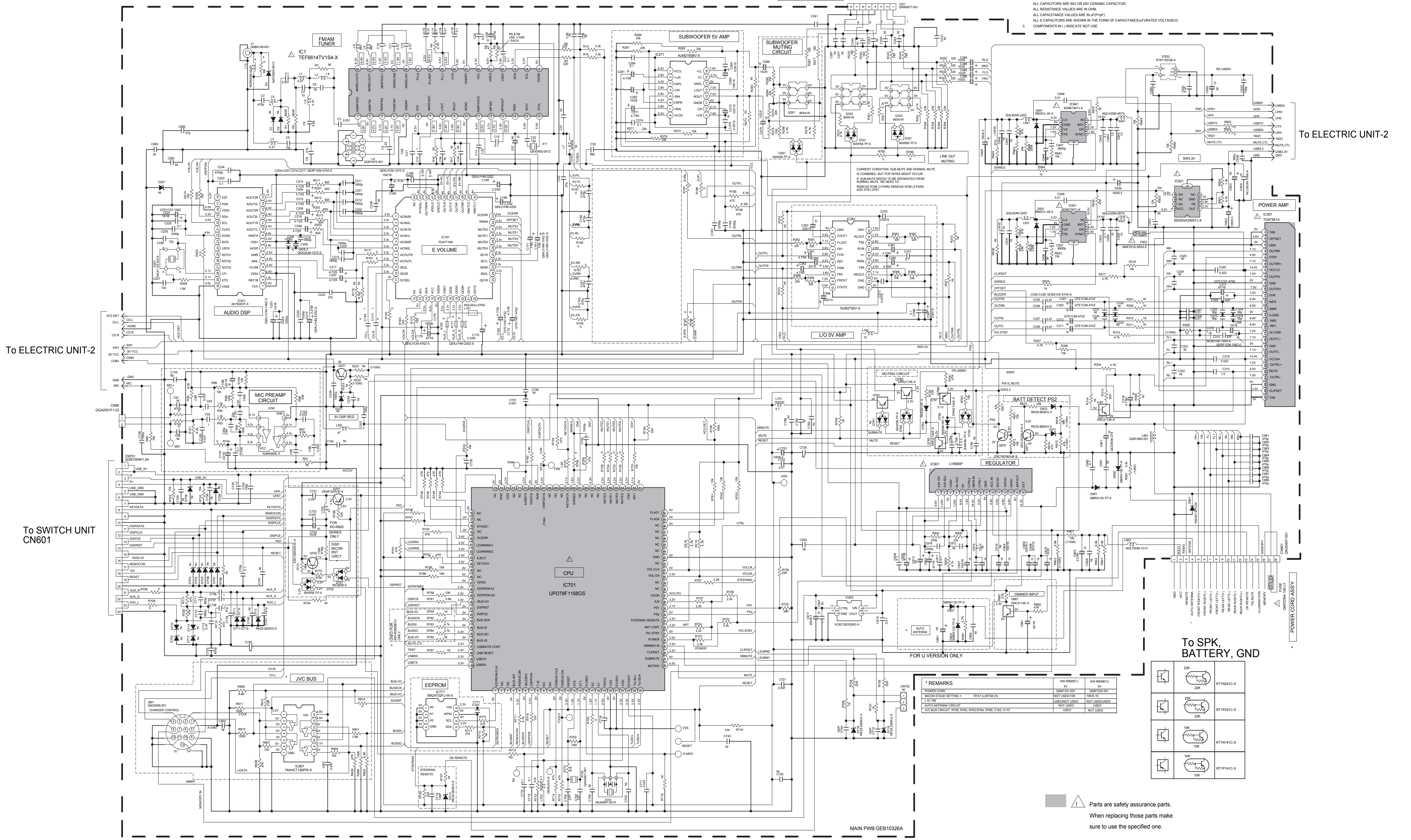
BLOCK DIAGRAM



ELECTRIC UNIT-1

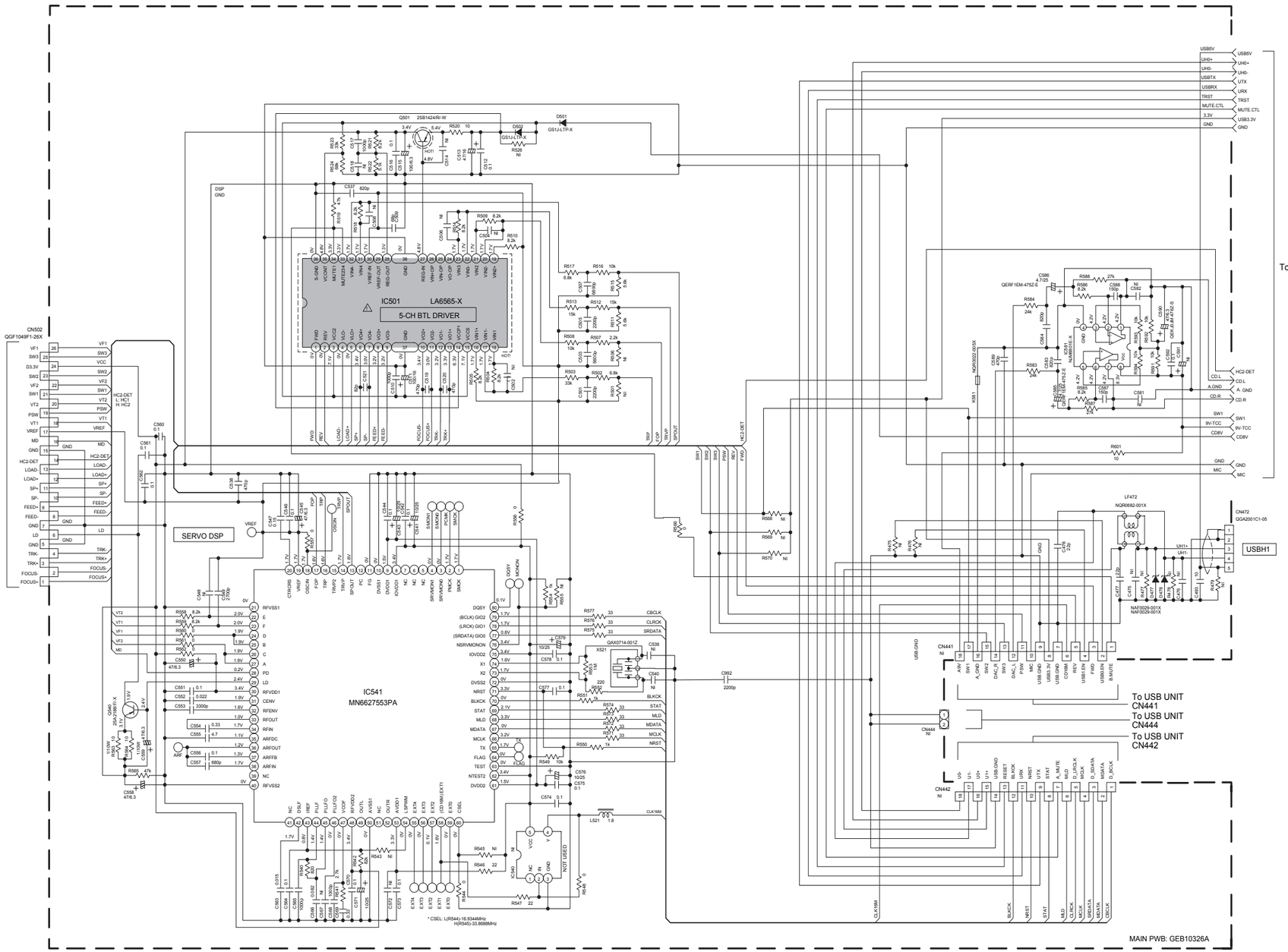
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION ---FM MODE. [ ] AM MODE. ( )CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
3. COMPONENTS IN ( ) INDICATE NOT USE.



Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

ELECTRIC UNIT-2

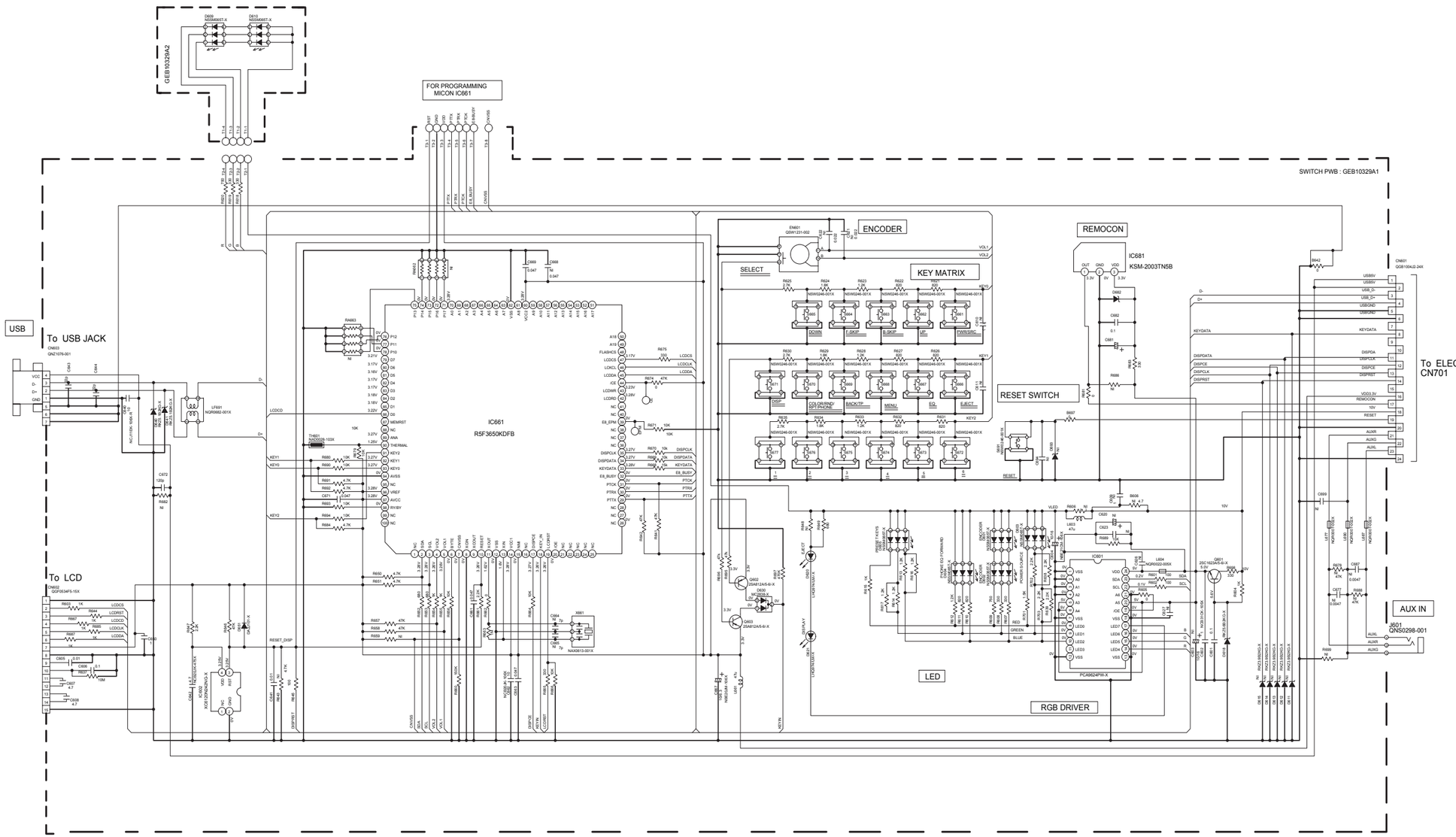


NOTES

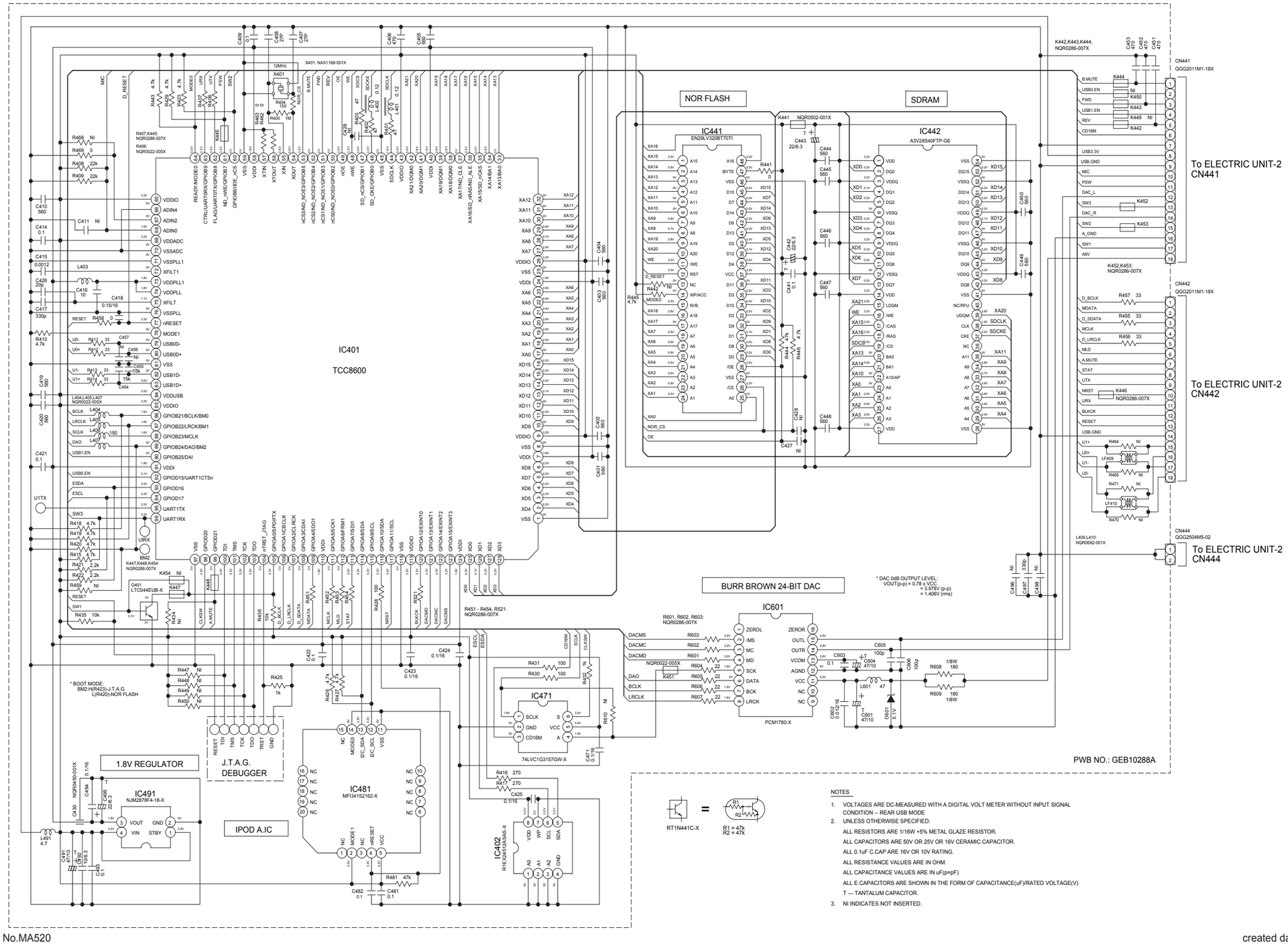
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION —FM MODE. ▭ AM MODE. ( )CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
3. COMPONENTS IN ( ) INDICATE NOT USE.

▨ ⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

SWITCH UNIT


SWITCH PWB : GEB10329A1
GEB10329A2
FOR PROGRAMMING
MICON IC661
USB
To USB JACK
CN603
GNZ1076-001
LF681
NQR0682-001X
To LCD
CN602
GQP0534F5-15X
IC661
R5F3650KDFB
ENCODER
EN601
QSW1231-002
SELECT
KEY MATRIX
RESET SWITCH
REMOCON
IC681
KSM-2003TN5B
IC801
PCA9624PW,X
LED
RGB DRIVER
AUX IN
J601
QNS0298-001
To ELECTRIC UNIT-1
CN701
CN801
DOWN
F.SKIP
B.SKIP
UP
PWR/SRC
BACK/TP
MENU
EQ
EJECT
RESET

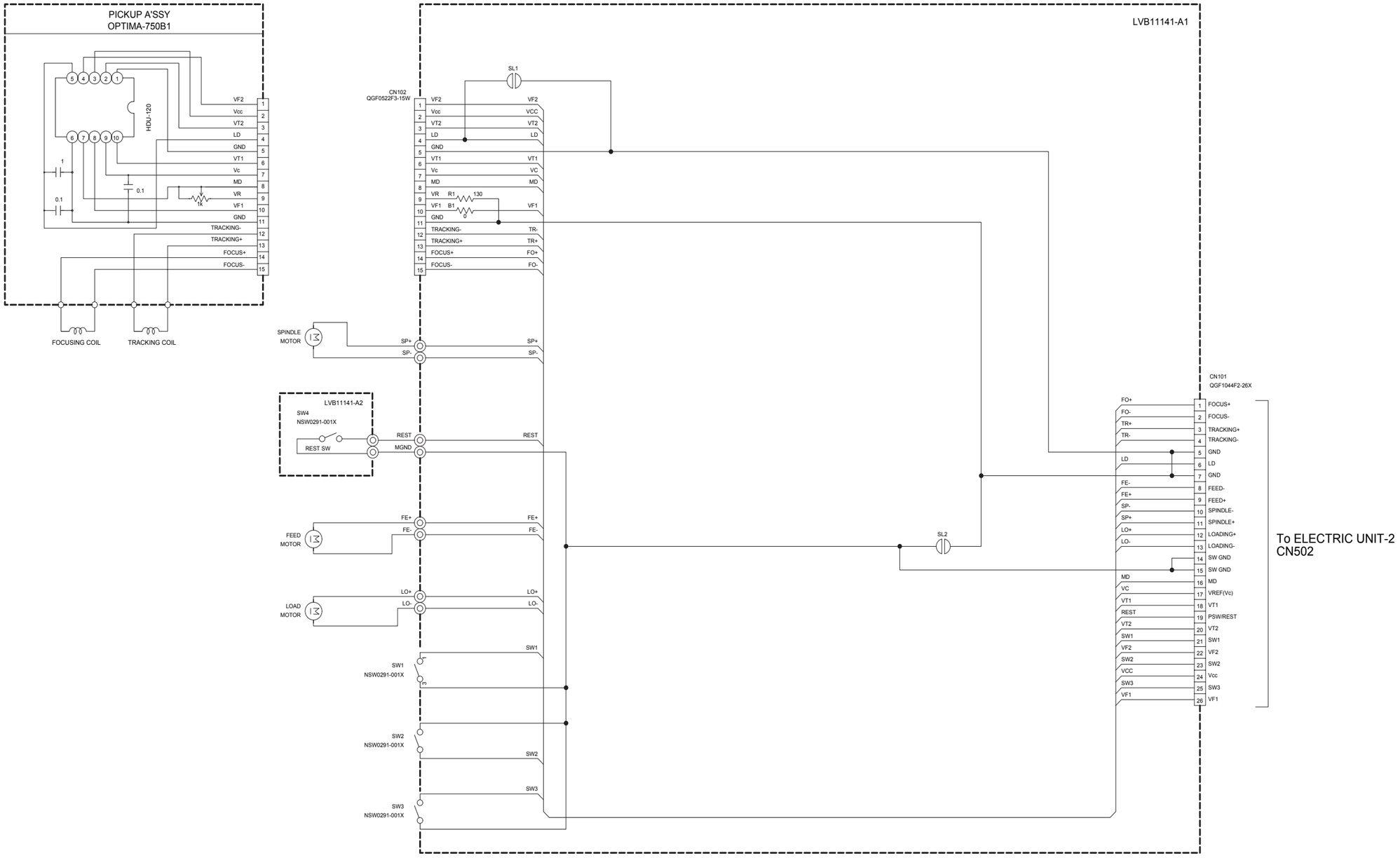
USB UNIT



NOTES

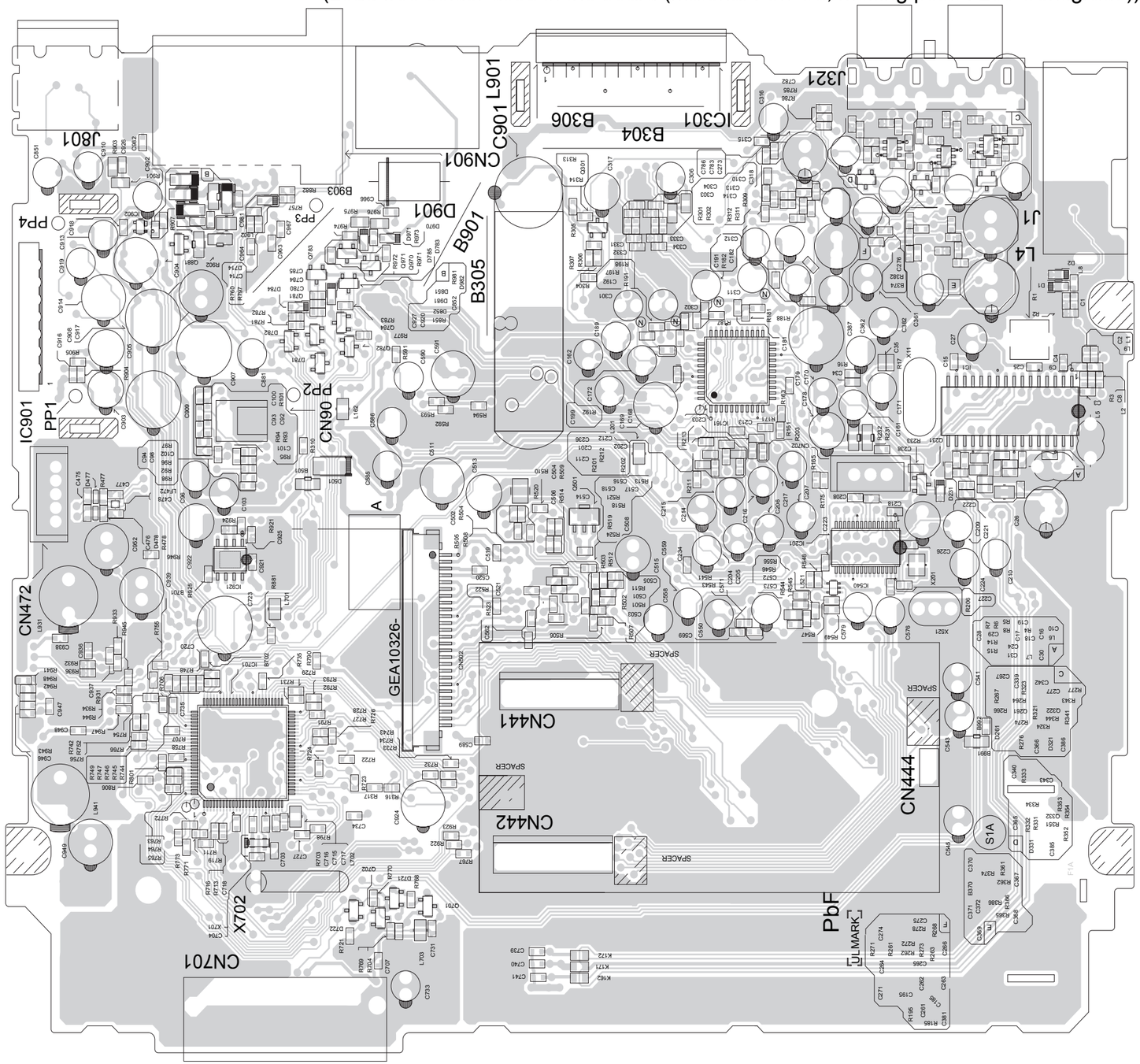
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION -- REAR USB MODE
2. UNLESS OTHERWISE SPECIFIED:
   ALL RESISTORS ARE 1/16W +5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR.
   ALL 0.1uF C.CAP ARE 16V OR 10V RATING.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(p=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.
3. NI INDICATES NOT INSERTED.

CD PLAYER UNIT



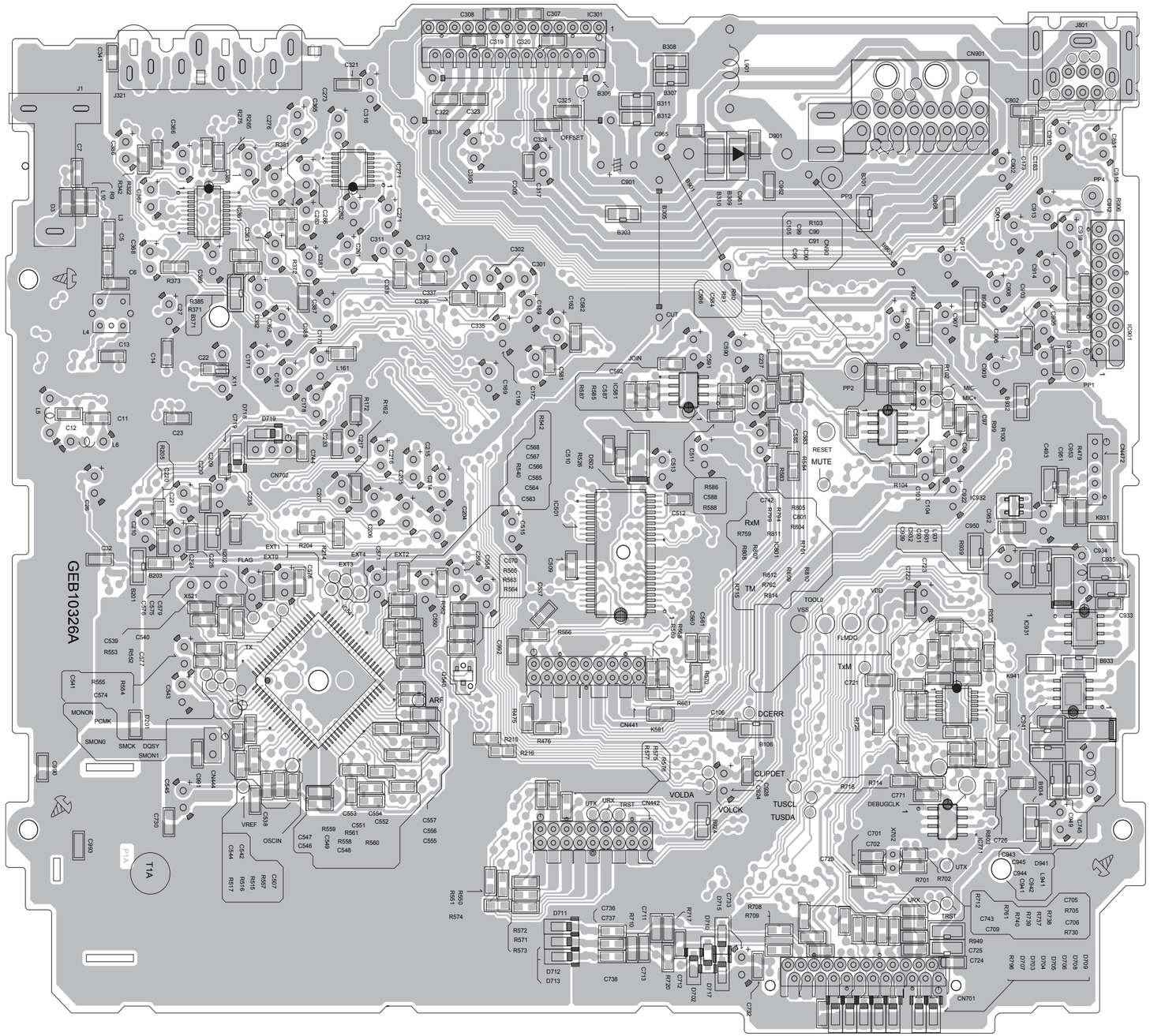
ELECTRIC UNIT

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



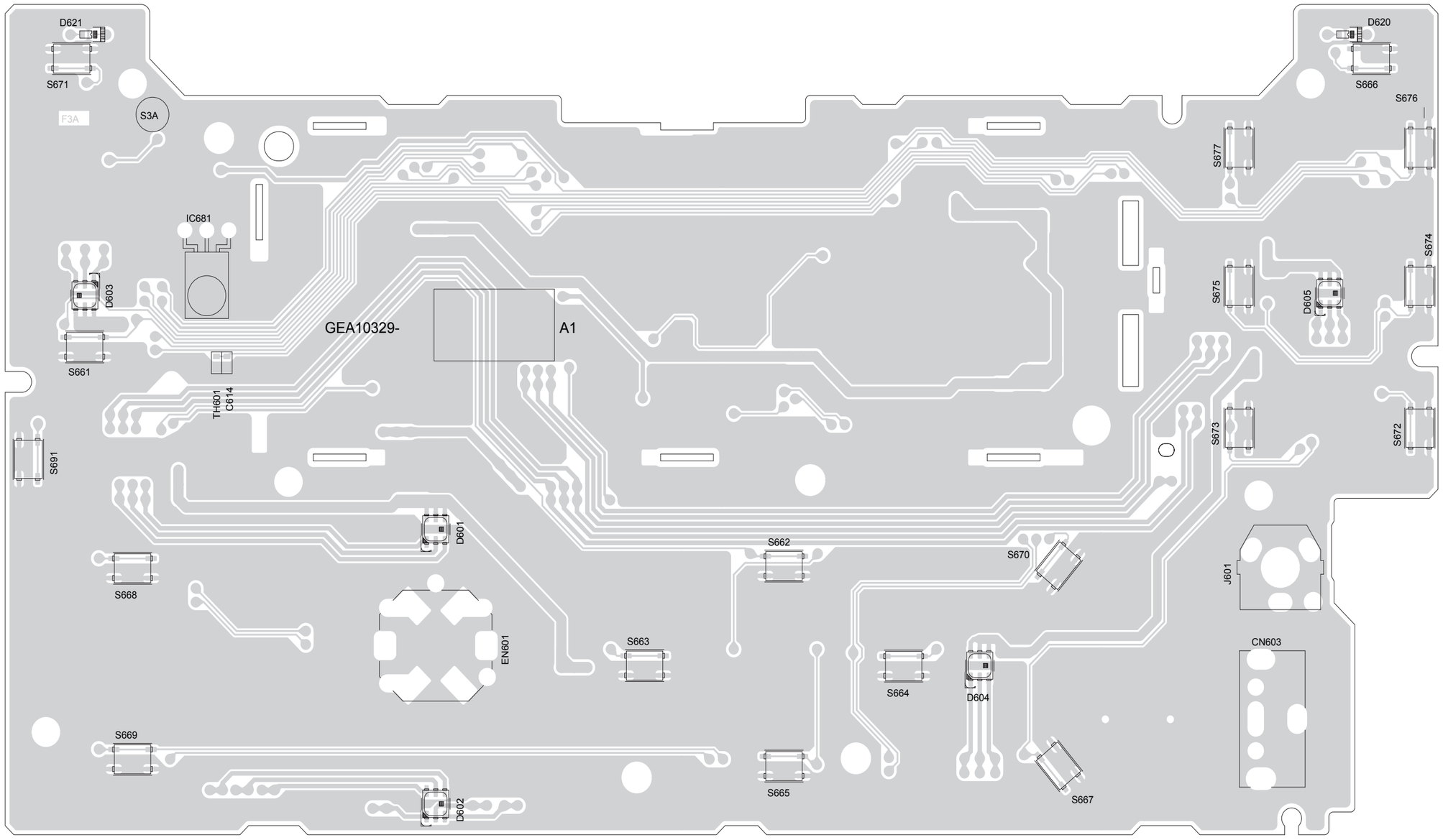
ELECTRIC UNIT

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



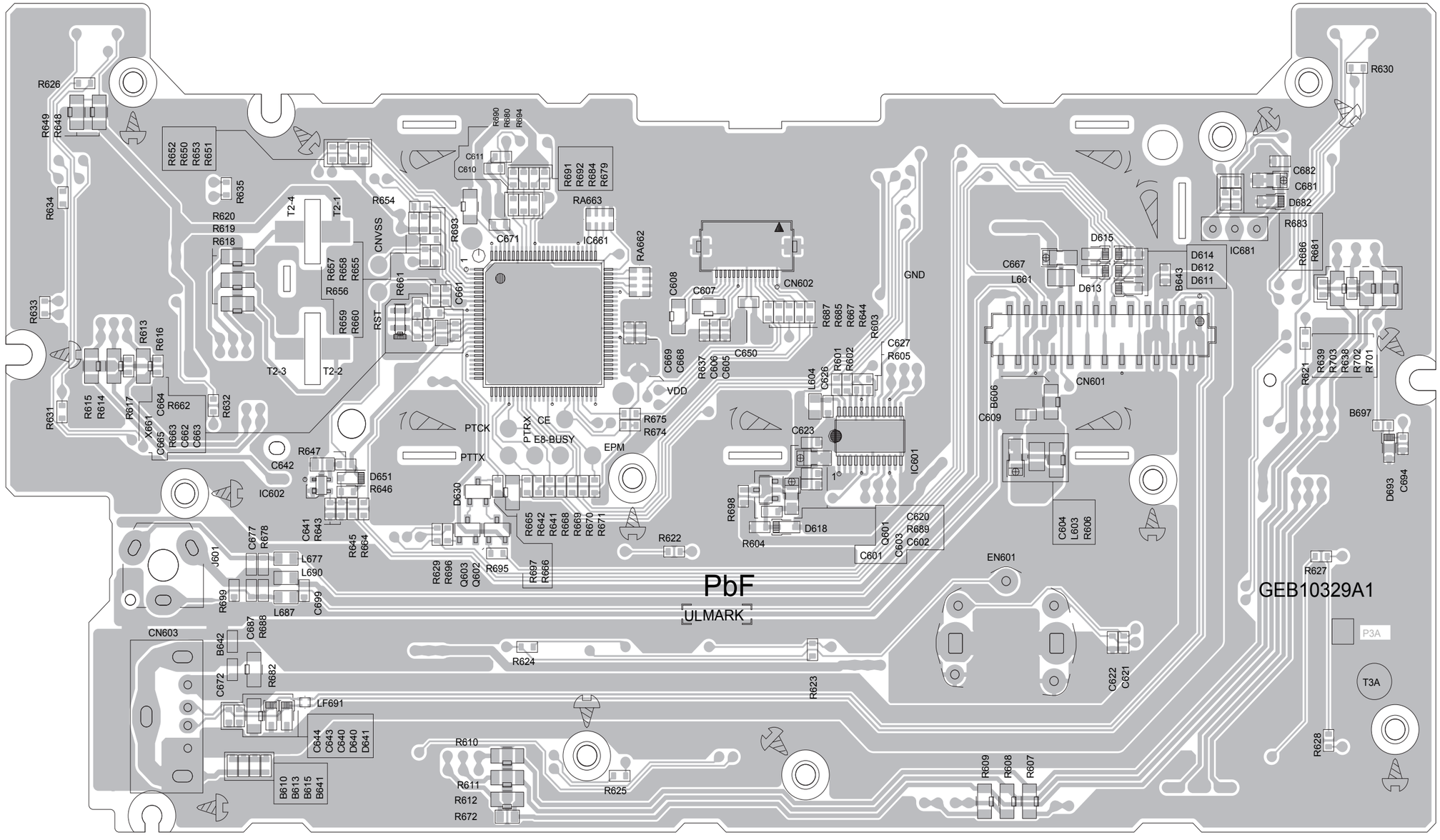
SWITCH UNIT-1

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



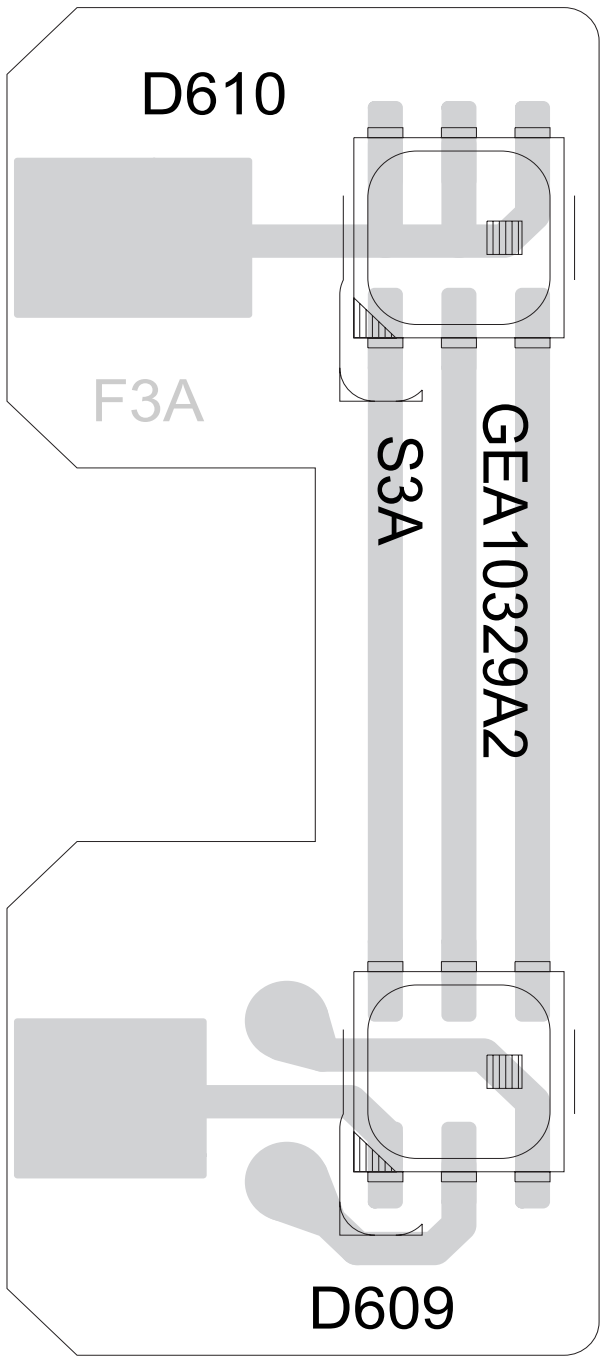
SWITCH UNIT-1

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))

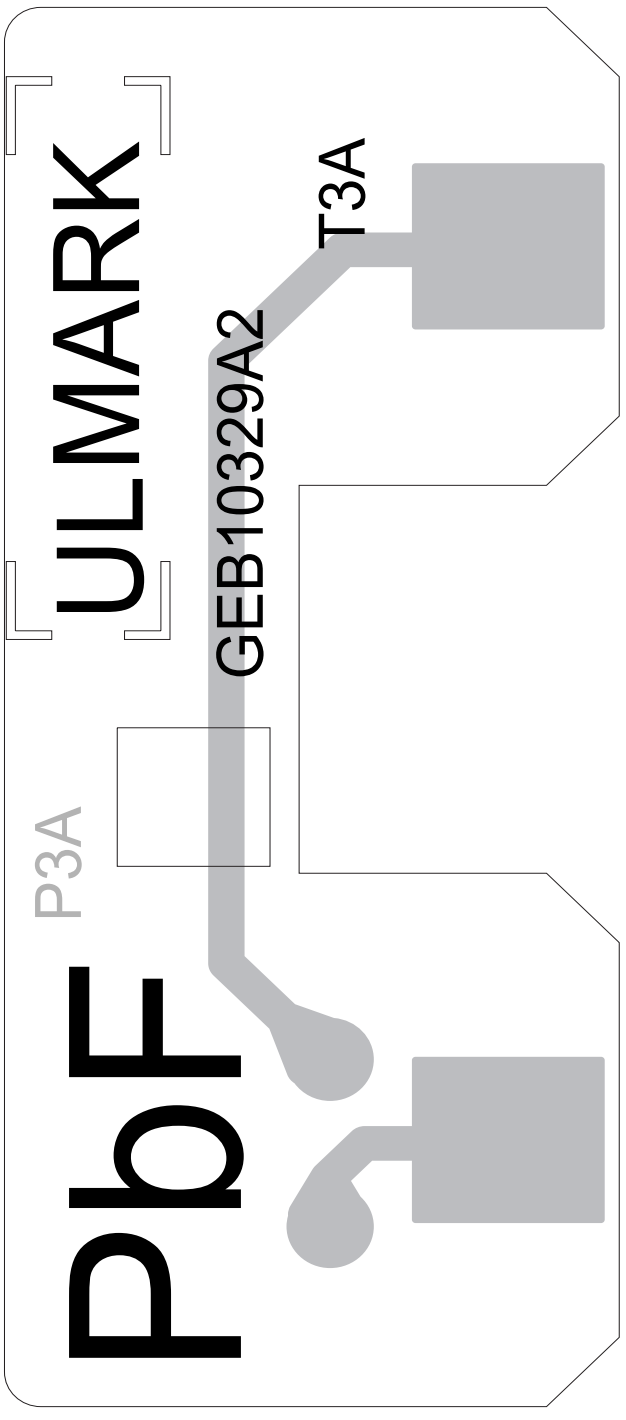


SWITCH UNIT-2

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))

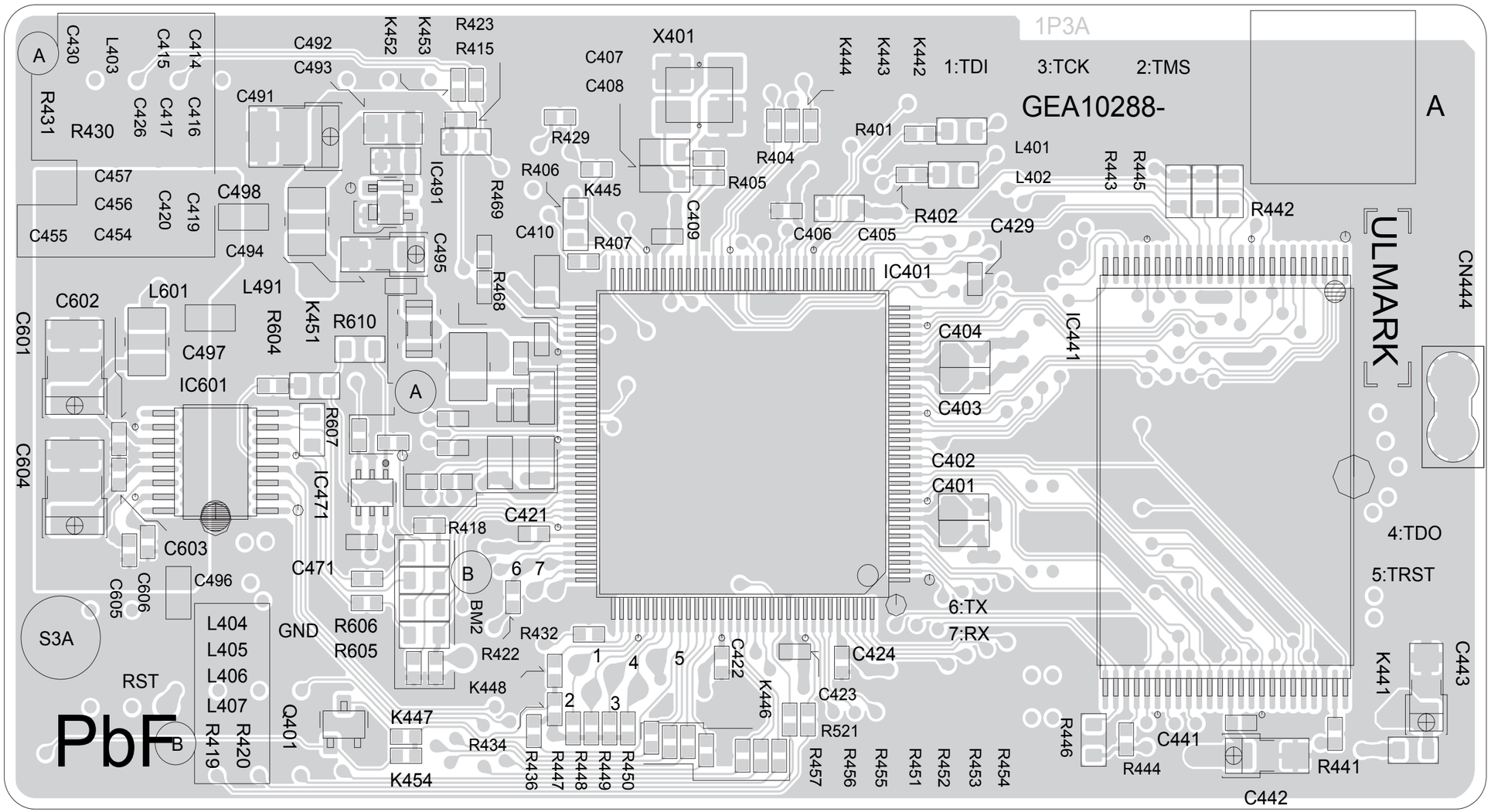


SWITCH UNIT-2
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



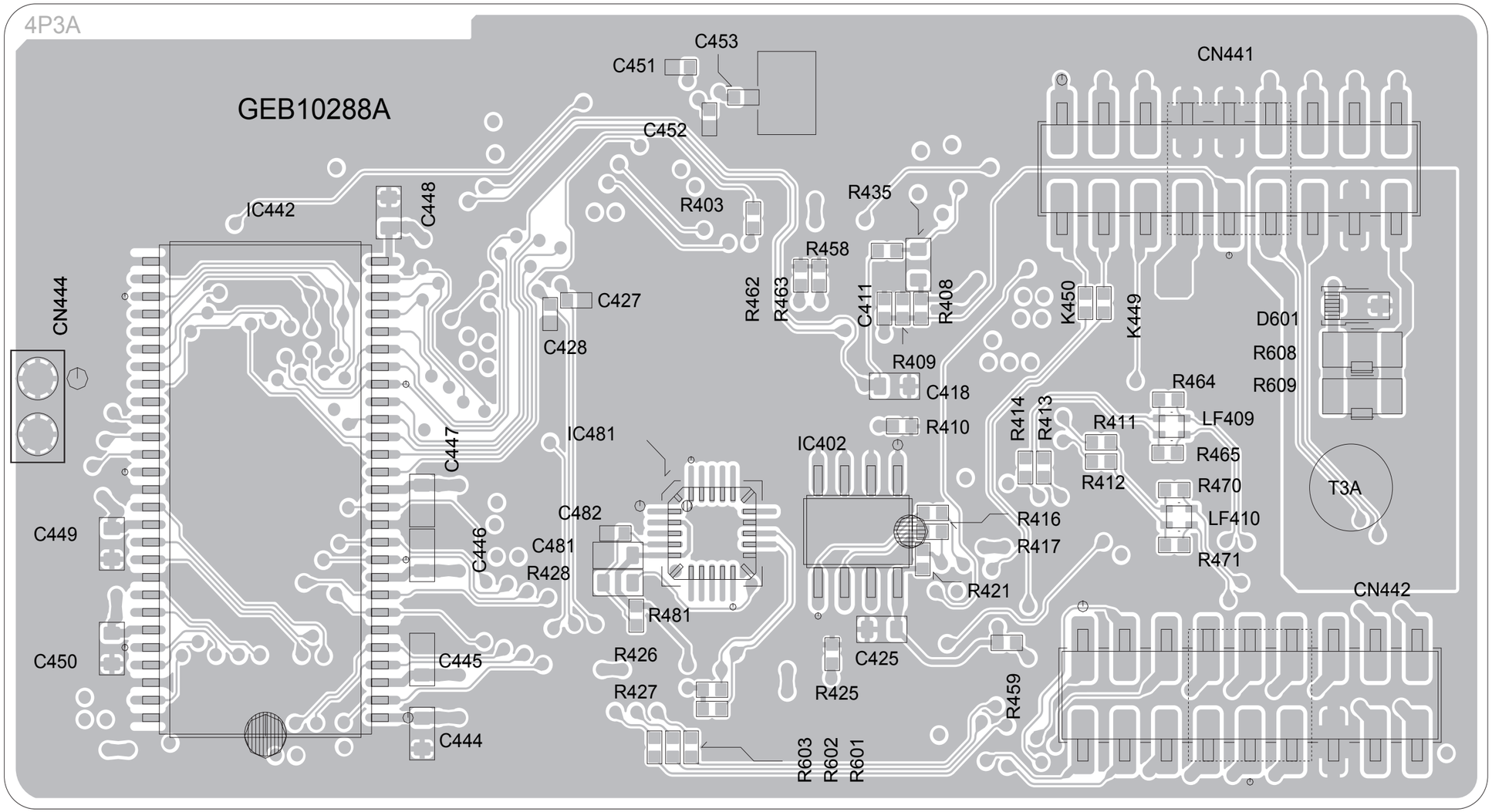
USB UNIT

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



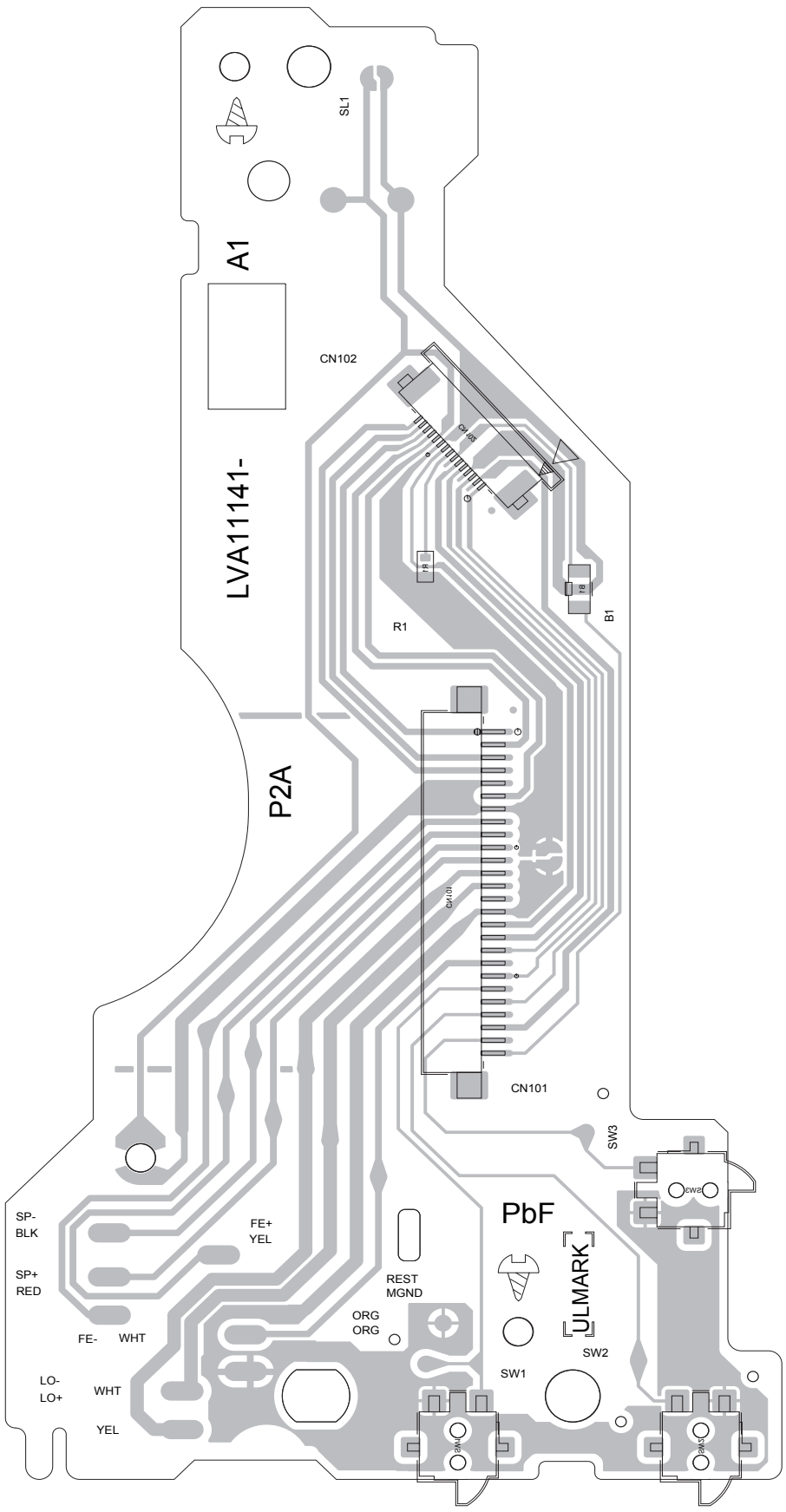
USB UNIT

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



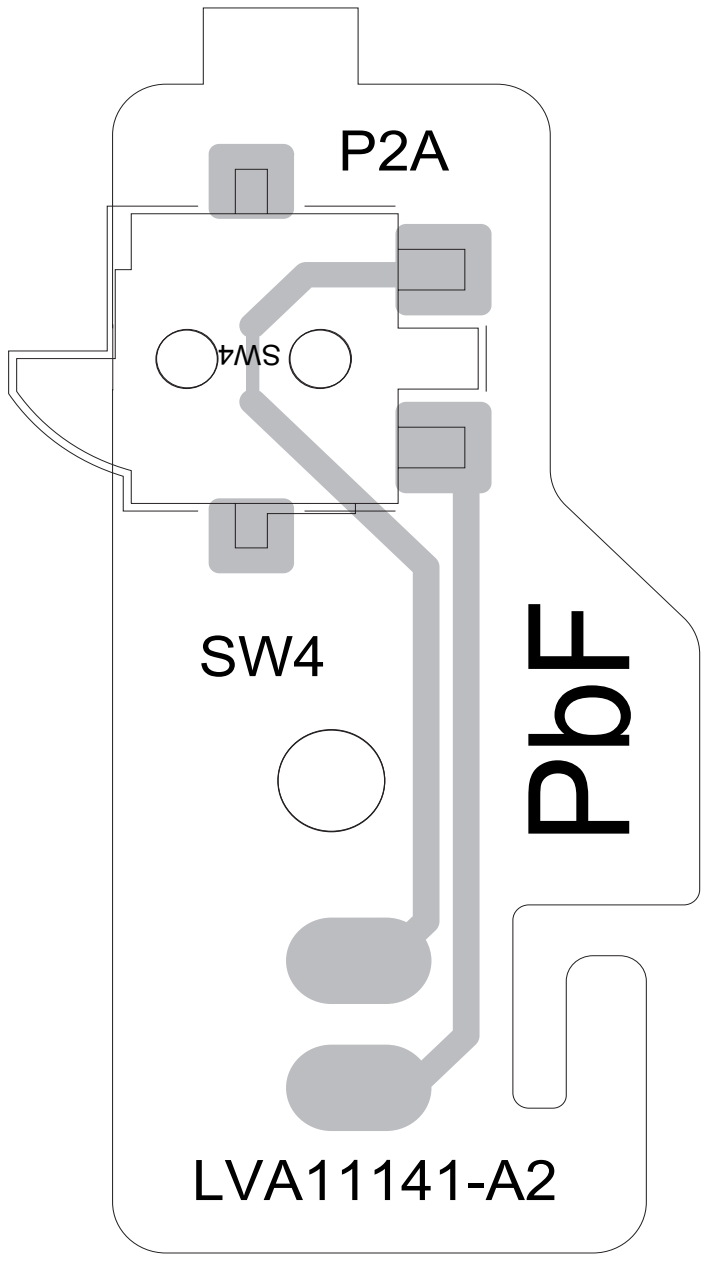
CD PLAYER UNIT-1

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



CD PLAYER UNIT-2

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



JVC

PARTS LIST

CD RECEIVER

KW-R900BTJ KW-R900BTU

■ PRECAUTIONS ON SCHEMATIC DIAGRAMS

- Due to the improvement in performance, some part numbers shown in the circuit diagrams may not agree with those indicated in the Parts List.
- The parts numbers, values and rated voltage etc. in the Schematic Diagrams are for reference only.
- Since the circuit diagrams are standard ones, the circuits and circuit constants may be subject to change for improvement without any notice.

■ PRECAUTIONS ON PARTS LIST

- The parts identified by the ⚠ symbol are critical for safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- When ordering chips, screws etc., place bulk orders (unit of tens) whenever possible to improve shipping efficiency.
- There are cases where the actual implemented parts in the sets and the service parts are different. When ordering parts, make sure to refer to the Parts List.

■ PRECAUTIONS ON SERVICE

Certain parts of the power circuits and the GNDs differ according to the models. Care must be taken for the following points as the differences are indicated separately in the LIVE GND (⏚) and the ISOLATED (NEUTRAL) GND (⊥).

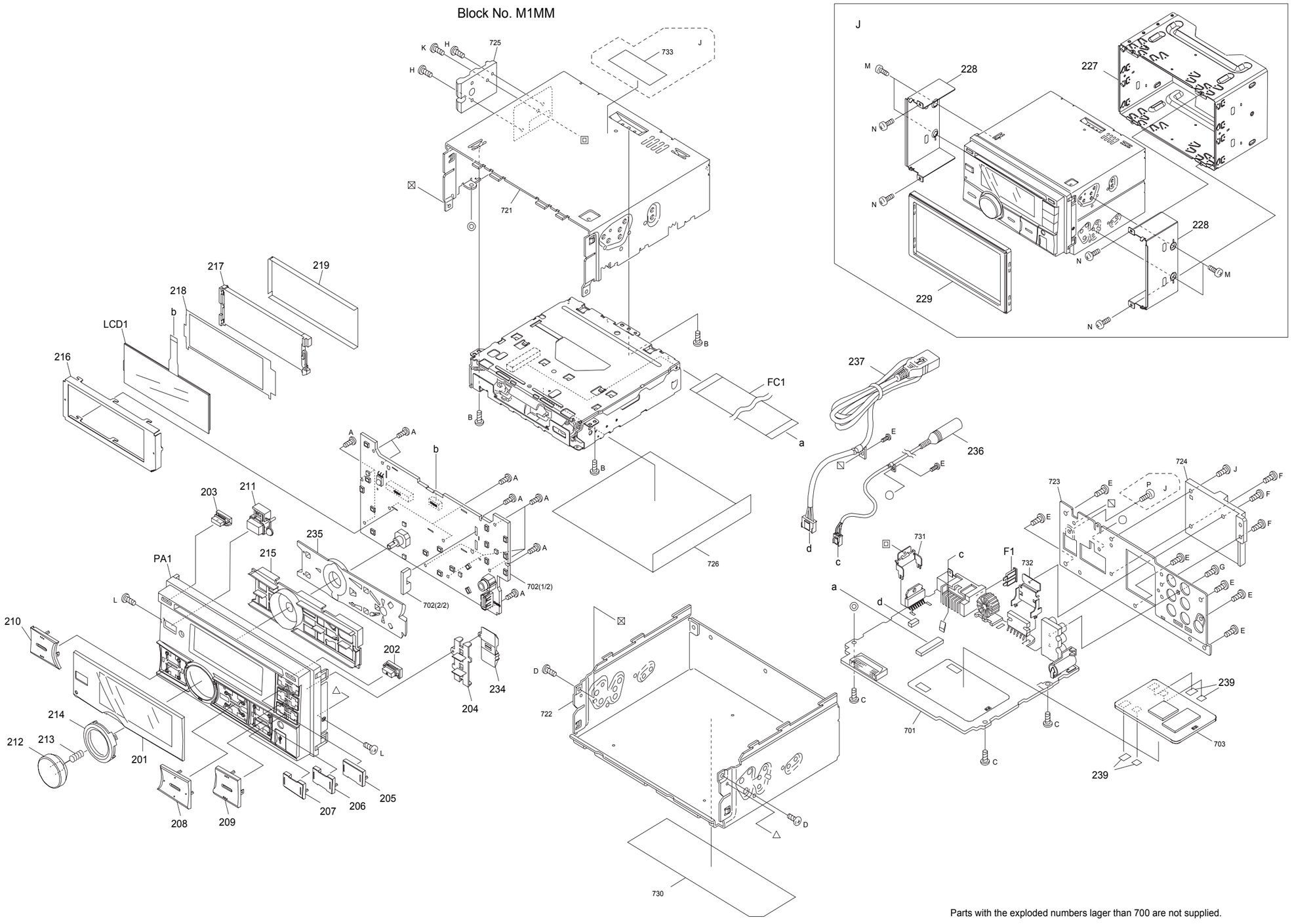
1. Do not touch the LIVE GND, or do not touch the LIVE GND and the ISOLATED (NEUTRAL) GND at the same time. It may cause an electric shock.
   Before pulling out the chassis or other parts, make sure to pull out the power cord from the wall outlet first.
2. Do not short circuit between the LIVE GND and ISOLATED (NEUTRAL) GND, or never measure the LIVE GND and ISOLATED (NEUTRAL) GND at the same time using measuring instruments (oscilloscope, etc.). It may blow fuses or damage other parts.

■ DEVIATION TOLERANCE RANGE

DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

EXPLODED VIEW (UNIT)

Block No. M1MM



Parts with the exploded numbers lager than 700 are not supplied.

No.MA520

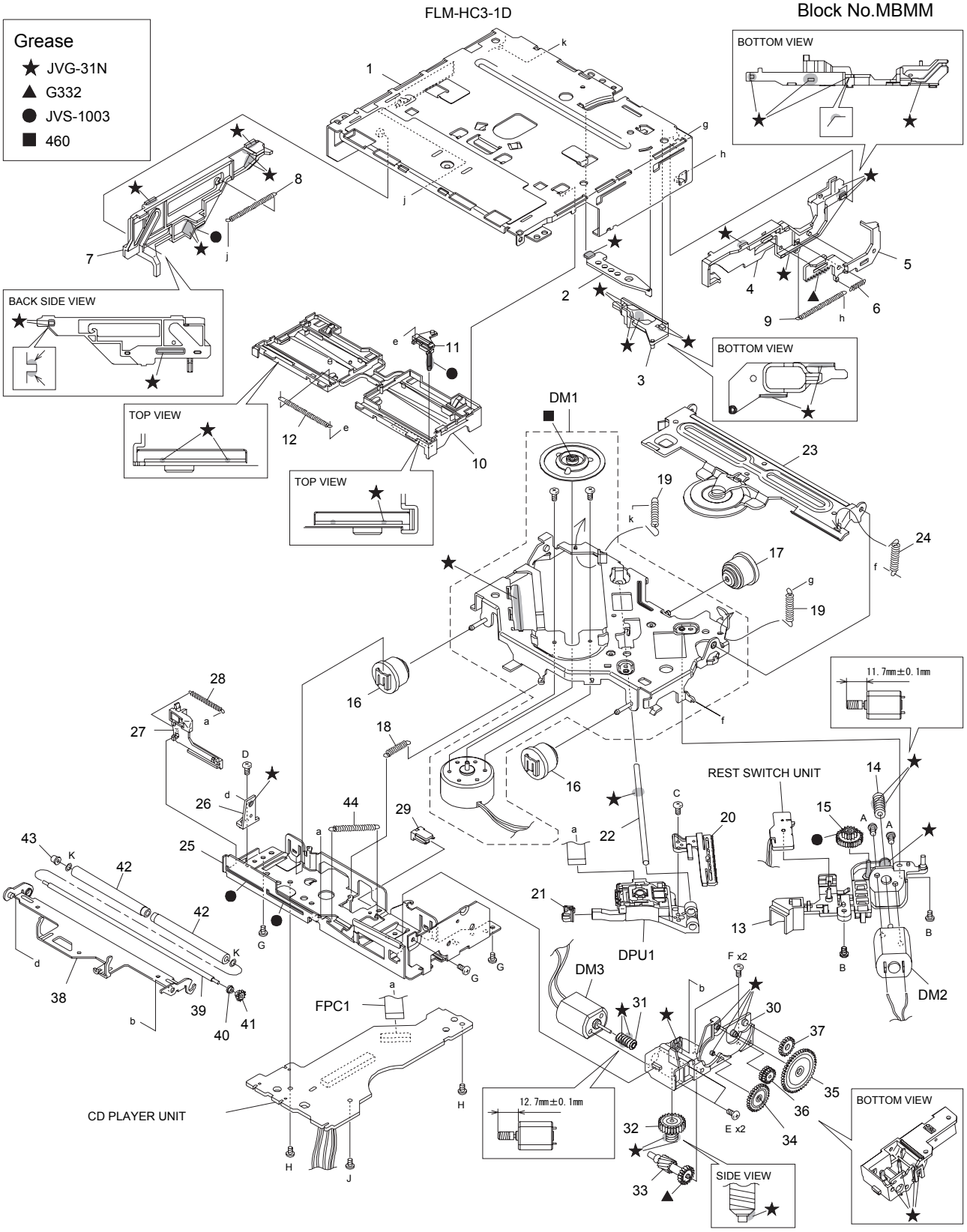
created date:2012-01-17

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

EXPLODED VIEW (UNIT) <M1MM>

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
⚠	F1	QMFZ064-100-J1	FUSE	10A	1	
	FC1	WJT0296-001A-E	E-CARD WIRE		1	
	LCD1	QLD0705-001	LCD MODULE		1	
	PA1	GE34823-011A	FRONT PANEL ASSY		1	
	A	QYSDSF2006ZA	TAP SCREW	M2 x 6mm	13	
	B	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm	3	
	C	GE40377-002A	SCREW		3	
	D	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	2	
	E	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	8	
	F	GE40377-001A	SCREW		3	
	G	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	1	
	H	GE40377-002A	SCREW		2	
	J	GE40377-003A	SPECIAL SCREW		1	
	K	QYSDST2608ZA	TAP SCREW	M2.6 x 8mm	1	
	L	QYSDST2004ZA	TAP SCREW	M2 x 4mm	2	
	M	QYSSSP5008ZA	SCREW	M5 x 8mm	4	A
	N	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm	4	A
	P	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	1	A
	201	GE20304-009A	FINDER		1	A
	201	GE20304-010A	FINDER		1	B
	202	GE34802-001A	EJECT BUTTON		1	
	203	GE34803-001A	DISP. BUTTON		1	
	204	GE34804-001A	LIGHT STRIP		1	
	205	GE34806-001A	PRESET BTN 1 2		1	
	206	GE34807-002A	PRESET BTN 3 4		1	
	207	GE34808-001A	PRESET BTN 5 6		1	
	208	GE34812-001A	NAVI BUTTON		1	
	209	GE34815-003A	EQ BUTTON		1	
	210	GE34816-001A	MENU BUTTON		1	
	211	GE40582-001A	SRC BTN ASSY		1	
	212	GE34820-002A	VOL KNOB		1	
	213	GE40127-005A	KNOB SPRING		1	
	214	GE34817-002A	RIM COVER		1	
	215	GE34813-001A	RIM LENS		1	
	216	GE34821-002A	LCD CASE		1	
	217	GE34822-002A	LCD LENS		1	
	218	GE40573-003A	LIGHT SHT(DOT)		1	
	219	GE40575-001A	REFL. SHT(DOT)		1	
	227	LV22425-007A	SLEEVE ASSY		1	A
	228	LV37151-004A	SUPPORT BKT		2	A
	229	GE20225-001A	TRIM PLATE		1	A
	234	GE34805-001A	LIGHT GUIDE (T)		1	
	235	GE34818-001A	LIGHT GUIDE (B)		1	
	236	QAM1360-002	CAR CABLE		1	
	237	QAM1370-001	CAR CABLE		1	
	239	GE40622-002A	SHEET		4	

EXPLODED VIEW (CD MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.		Parts No.	Parts Name	Description	QTY	Local
EXPLODED VIEW (CD MECHANISM: FLM-HC3-1D) <MBMM>							
	DM1		CM-FLMHC1D	SPINDLE MOTOR ASSY		1	
	DM2		QAR0144-003	MOTOR	2.0V DC	1	
	DM3		QAR0144-003	MOTOR	2.0V DC	1	
⚠	DPU1		QAL1226-001	PICK UP		1	
	FPC1		QAL0817-003	FPC		1	
	A		QYSPSPT2025MA	SCREW	M2 x 2.5mm	2	
	B		VKZ4539-054	MINI SCREW		2	
	C		QYSPSGT1745ZA	TAP SCREW	M1.7 x 4.5mm	1	
	D		VKZ4539-054	MINI SCREW		1	
	E		QYSPSPT2025MA	SCREW	M2 x 2.5mm	2	
	F		VKZ4539-054	MINI SCREW		2	
	G		VKZ4539-054	MINI SCREW		3	
	H		VKZ4539-054	MINI SCREW		2	
	J		VKZ4539-054	MINI SCREW		1	
	K		LV45449-001A	WASHER		2	
	1		LV11685-004A	TOP FRAME		1	
	2		LV38953-001A	TRIGGER PLATE		1	
	3		LV38952-001A	FL SLIDER(B)		1	
	4		LV22826-003A	LOAD CAM		1	
	5		LV38951-001A	TRIGGER RACK		1	
	6		LV45415-001A	TRIGGER SPRING		1	
	7		LV22827-001A	FL SLIDER(L)		1	
	8		LV45416-001A	LOAD CAM SPRING		1	
	9		LV45417-001A	FL SLIDERSPRING		1	
	10		LV11689-001A	DISC GUIDE		1	
	11		LV38957-001A	SW SLIDER(R)		1	
	12		LV45505-001A	SW ACT SPRING		1	
	13		LV22828-001A	FEED BRACKET		1	
	14		LV36814-201A	F WORM GEAR		1	
	15		LV36815-002A	F WHEEL GEAR		1	
	16		LV36904-001A	DAMPER		2	
	17		LV37061-001A	DAMPER		1	
	18		LV45422-001A	SUS SPRING(F)		1	
	19		LV45423-001A	SUS SPRING(B)		2	
	20		LV38960-001A	FEED RACK		1	
	21		LV36813-201A	SUB GUIDE CAP		1	
	22		LV44555-001A	MAIN SHAFT		1	
	23		LV38950-002A	HC CL.BASE ASSY		1	
	24		LV45421-001A	HC CL.SPRING		1	
	25		LV11686-002A	BOTTOM FRAME		1	
	26		LV38954-002A	R.ARM GUIDE		1	
	27		LV39496-001A	SW ACTUATOR (2)		1	
	28		LV45505-001A	SW ACT SPRING		1	
	29		LV38962-001A	WIRE GUIDE		1	
	30		LV11688-001A	LOADING BASE		1	
	31		LV38963-001A	D.WORM GEAR		1	
	32		LV38964-001A	D.WHEEL GEAR		1	
	33		LV38965-002A	ACT GEAR(1)		1	
	34		LV38966-001A	ACT GEAR(2)		1	
	35		LV38967-001A	ACT GEAR(3)		1	
	36		LV38968-001A	ROLLER ACT GEAR		1	
	37		LV38969-001A	DRIVE GEAR		1	
	38		LV11690-001A	ROLLER ARM		1	
	39		LV45654-002A	ROLLER SHAFT 2		1	
	40		LV45412-001A	RA COLLAR(R)		1	
	41		LV38970-001A	HC ROLLER GEAR		1	
	42		LV45424-001A	HC ROLLER		2	
	43		LV45648-001A	RA COLLAR(L) 2		1	
	44		LV45418-001A	R.ARM SPRING		1	
ELECTORIC UNIT <01>							
⚠	IC1		TEF6614TV1S4-X	IC		1	
	IC90		NJM4565E-X	IC		1	
	IC161		TDA7716N	IC		1	
	IC201		AK7600VF-X	IC		1	
	IC271		NJM2160BV-X	IC		1	
⚠	IC301		TDA7851A	IC		1	
	IC361		NJM2792V-X	IC		1	
⚠	IC501		LA6565-X	IC		1	
	IC541		MN6627553PA	IC		1	
	IC581		NJM8801E-X	IC		1	
⚠	IC701		JES235C	IC(MCU)		1	
	IC771		BR24T02FJ-W-X	IC		1	
	IC771	or	R1EX24002ASAA-X	IC		1	
	IC801		74AHCT126PW-X	IC		1	A
⚠	IC901		LV5680P	IC		1	
	IC902		XC6213B332NG-X	IC		1	
⚠	IC921		BD00GA3WEFJ-X	IC		1	
⚠	IC931		BD9673EFJ-X	IC		1	
	IC932		RT9715EGB-X	IC		1	
⚠	IC941		BD9673EFJ-X	IC		1	
	Q261		IMX9-W	PAIR TRANSISTOR		1	
	Q301		DRC2114E-X	DIGI TRANSISTOR		1	
	Q301	or	RT1N141C-X	DIGI TRANSISTOR		1	
	Q322		IMX9-W	PAIR TRANSISTOR		1	
	Q332		IMX9-W	PAIR TRANSISTOR		1	
	Q501		2SB1424/R/-W	TRANSISTOR		1	
	Q540		2SA2188/F/-X	TRANSISTOR		1	
	Q701		2SA812A/5-6/-X	TRANSISTOR		1	
	Q701	or	ISA1530AC1/QR/X	TRANSISTOR		1	
	Q702		2SC1623A/5-6/-X	TRANSISTOR		1	
	Q702	or	2SC3928A/QR/-X	TRANSISTOR		1	
	Q782		DRA2114E-X	DIGI TRANSISTOR		1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.		Parts No.	Parts Name	Description	QTY	Local
	Q782	or	RT1P141C-X	DIGI TRANSISTOR		1	
	Q783		DRC2124E-X	DIGI TRANSISTOR		1	
	Q783	or	RT1N241C-X	DIGI TRANSISTOR		1	
	Q784		DRA2124E-X	DIGI TRANSISTOR		1	
	Q784	or	RT1P241C-X	TRANSISTOR		1	
	Q881		DRC2114E-X	DIGI TRANSISTOR		1	
	Q881	or	RT1N141C-X	DIGI TRANSISTOR		1	
	Q970		2SC1623A/5-6/-X	TRANSISTOR		1	
	Q970	or	2SC3928A/QR/-X	TRANSISTOR		1	
	Q971		2SC1623A/5-6/-X	TRANSISTOR		1	
	Q971	or	2SC3928A/QR/-X	TRANSISTOR		1	
	D3		NAF0029-001X	DIODE		1	
	D261		BAW56-TP-X	SI DIODE		1	
	D261	or	MC2836-X	DIODE		1	
	D321		BAW56-TP-X	SI DIODE		1	
	D321	or	MC2836-X	DIODE		1	
	D331		BAW56-TP-X	SI DIODE		1	
	D331	or	MC2836-X	DIODE		1	
	D477		NAF0029-001X	DIODE		1	
	D478		NAF0029-001X	DIODE		1	
	D501		GS1J-LTP-X	DIODE		1	
	D501	or	1SR154-400-X	SI DIODE		1	
	D502		GS1J-LTP-X	DIODE		1	
	D502	or	1SR154-400-X	SI DIODE		1	
	D711		RKZ6.2B2KG-X	Z DIODE		1	
	D711	or	DZ2J062/M/-X	Z DIODE		1	
	D712		RKZ6.2B2KG-X	Z DIODE		1	
	D712	or	DZ2J062/M/-X	Z DIODE		1	
	D713		RKZ6.2B2KG-X	Z DIODE		1	
	D713	or	DZ2J062/M/-X	Z DIODE		1	
	D714		RKZ6.2B2KG-X	Z DIODE		1	
	D714	or	DZ2J062/M/-X	Z DIODE		1	
	D718		RKZ6.2B2KG-X	Z DIODE		1	
	D718	or	DZ2J062/M/-X	Z DIODE		1	
	D719		RKZ6.2B2KG-X	Z DIODE		1	
	D719	or	DZ2J062/M/-X	Z DIODE		1	
	D721		MC2838-X	DIODE		1	
	D722		BAW56-TP-X	SI DIODE		1	
	D722	or	MC2836-X	DIODE		1	
	D782		BAW56-TP-X	SI DIODE		1	
	D782	or	MC2836-X	DIODE		1	
	D783		BAW56-TP-X	SI DIODE		1	
	D783	or	MC2836-X	DIODE		1	
	D784		RKS801KF-X	SI DIODE		1	
	D784	or	DA2J101-X	SI DIODE		1	
	D785		RKS801KF-X	SI DIODE		1	
	D785	or	DA2J101-X	SI DIODE		1	
	D851		MBRX130-TP-X	SB DIODE		1	B
	D852		MBRX130-TP-X	SB DIODE		1	B
	D901		1N5401-BPC04	SI DIODE		1	
	D931		RB051L-40-X	SB DIODE		1	
	D941		RB051L-40-X	SB DIODE		1	
	D970		RKZ6.8B2KG-X	Z DIODE		1	
	D970	or	DZ2J068/M/-X	Z DIODE		1	
	D971		RKZ6.8B2KG-X	Z DIODE		1	
	D971	or	DZ2J068/M/-X	Z DIODE		1	
	D981		MBRX130-TP-X	SB DIODE		1	
	D982		MBRX130-TP-X	SB DIODE		1	
	C1		NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C2		NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	1	
	C3		NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C4		NCB31CK-224X	C CAPACITOR	0.22uF 16V K	1	
	C5		NDC31HJ-150X	C CAPACITOR	15pF 50V J	1	
	C6		NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C7		NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C8		NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	1	
	C9		NDC31HJ-5R6X	C CAPACITOR	5.6pF 50V J	1	
	C10		NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C11		NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C12		NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C13		NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C14		NCB31CK-224X	C CAPACITOR	0.22uF 16V K	1	
	C15		NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C16		NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C17		NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C18		NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C19		NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C22		NDC31HJ-120X	C CAPACITOR	12pF 50V J	1	
	C23		NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C24		NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C25		NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C26		QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C30		NDC31HJ-560X	C CAPACITOR	56pF 50V J	1	
	C32		NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C92		NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C93		NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C94		NDC31HJ-331X	C CAPACITOR	330pF 50V J	1	
	C95		NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C96		QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	1	
	C97		NDC31HJ-331X	C CAPACITOR	330pF 50V J	1	
	C98		NCB31HK-333X	C CAPACITOR	0.033uF 50V K	1	
	C99		NCB31HK-273X	C CAPACITOR	0.027uF 50V K	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C100	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	1	
	C101	NDC31HJ-220X	C CAPACITOR	22pF 50V J	1	
	C102	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	1	
	C103	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	1	
	C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C105	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	1	
	C106	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C161	QEKJ1HM-105Z-S	E CAPACITOR	1uF 50V M	1	
	C162	QTE1V67-475Z	E CAPACITOR	4.7uF 35V	1	
	C163	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A
	C168	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C169	QEKJ1CM-107Z-S	E CAPACITOR	100uF 16V M	1	
	C170	QEKJ1HM-225Z-S	E CAPACITOR	2.2uF 50V M	1	
	C171	QEKJ1HM-105Z-S	E CAPACITOR	1uF 50V M	1	
	C172	QTE1V67-475Z	E CAPACITOR	4.7uF 35V	1	
	C173	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A
	C178	QEKJ1CM-476Z-S	E CAPACITOR	47uF 16V M	1	
	C179	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C181	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C182	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C185	NCB31HK-332X	C CAPACITOR	3300pF 50V K	1	
	C189	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	1	
	C191	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C192	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C195	NCB31HK-332X	C CAPACITOR	3300pF 50V K	1	
	C199	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	1	
	C201	NCB31HK-182X	C CAPACITOR	1800pF 50V K	1	
	C202	NCB31HK-182X	C CAPACITOR	1800pF 50V K	1	
	C203	NCB31HK-182X	C CAPACITOR	1800pF 50V K	1	
	C204	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C205	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C206	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C207	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C208	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C209	QEKJ0JM-107Z-S	E CAPACITOR	100uF 6.3V M	1	
	C210	QEKJ1HM-225Z-S	E CAPACITOR	2.2uF 50V M	1	
	C211	NCB31HK-182X	C CAPACITOR	1800pF 50V K	1	
	C212	NCB31HK-182X	C CAPACITOR	1800pF 50V K	1	
	C213	NCB31HK-182X	C CAPACITOR	1800pF 50V K	1	
	C214	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C215	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C216	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C217	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C218	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C220	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C221	QEKJ1CM-106Z-S	E CAPACITOR	10uF 16V M	1	
	C222	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C223	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	1	
	C224	QTE1C57-106Z	E CAPACITOR	10uF 16V	1	
	C225	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C226	NDC31HJ-120X	C CAPACITOR	12pF 50V J	1	
	C227	NDC31HJ-120X	C CAPACITOR	12pF 50V J	1	
	C233	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C234	NCB31HK-472X	C CAPACITOR	4700pF 50V K	1	
	C235	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C237	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C239	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C261	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	
	C262	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C263	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C264	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C265	NCB31HK-152X	C CAPACITOR	1500pF 50V K	1	
	C266	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C271	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	
	C273	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C274	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C275	NCB31HK-152X	C CAPACITOR	1500pF 50V K	1	
	C276	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C301	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C302	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C303	NDC31HJ-560X	C CAPACITOR	56pF 50V J	1	
	C304	NDC31HJ-560X	C CAPACITOR	56pF 50V J	1	
	C305	NDC31HJ-820X	C CAPACITOR	82pF 50V J	1	
	C306	QERF1CM-106Z-E	E CAPACITOR	10uF 16V M	1	
	C307	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C310	NDC31HJ-820X	C CAPACITOR	82pF 50V J	1	
	C311	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C312	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C313	NDC31HJ-560X	C CAPACITOR	56pF 50V J	1	
	C314	NDC31HJ-560X	C CAPACITOR	56pF 50V J	1	
	C315	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C316	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	
	C317	QTE1C57-476Z	E CAPACITOR	47uF 16V	1	
	C318	NCB21AK-105X-A	C CAPACITOR	1uF 10V K	1	
	C319	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	1	
	C320	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	1	
	C335	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C336	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C337	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C338	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C361	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	
	C362	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C365	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C366	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C367	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	1	
	C368	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	1	
	C369	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	1	
	C370	NCB31HK-152X	C CAPACITOR	1500pF 50V K	1	
	C371	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C372	NCB31HK-152X	C CAPACITOR	1500pF 50V K	1	
	C381	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	
	C382	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	1	
	C385	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C386	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C387	QERF1AM-227Z	E CAPACITOR	220uF 10V M	1	
	C388	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C477	NDC31HJ-220X	C CAPACITOR	22pF 50V J	1	
	C478	NDC31HJ-220X	C CAPACITOR	22pF 50V J	1	
	C493	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	1	
	C501	NCB31HK-222X	C CAPACITOR	2200pF 50V K	1	
	C503	NCB31HK-562X	C CAPACITOR	5600pF 50V K	1	
	C505	NCB31HK-222X	C CAPACITOR	2200pF 50V K	1	
	C507	NCB31HK-682X	C CAPACITOR	6800pF 50V K	1	
	C509	NDC31HJ-680X	C CAPACITOR	68pF 50V J	1	
	C510	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C511	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C512	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C513	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	1	
	C515	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	
	C516	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C517	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C519	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C520	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C521	NDC31HJ-820X	C CAPACITOR	82pF 50V J	1	
	C537	NDC31HJ-821X	C CAPACITOR	820pF 50V J	1	
	C538	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C541	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C542	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C543	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C544	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C545	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	1	
	C546	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C547	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	1	
	C549	NCB31HK-272X	C CAPACITOR	2700pF 50V K	1	
	C550	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	1	
	C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C552	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	1	
	C553	NCB31HK-332X	C CAPACITOR	3300pF 50V K	1	
	C554	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	1	
	C555	NCB21CK-475X	C CAPACITOR	4.7uF 16V K	1	
	C556	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C557	NDC31HJ-681X	C CAPACITOR	680pF 50V J	1	
	C558	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	1	
	C559	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	1	
	C560	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C561	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C562	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C563	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	1	
	C564	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C565	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C566	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	1	
	C568	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C569	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	1	
	C570	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C571	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C573	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C574	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C575	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C576	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C577	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C578	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C579	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C583	NDC31HJ-821X	C CAPACITOR	820pF 50V J	1	
	C584	NDC31HJ-821X	C CAPACITOR	820pF 50V J	1	
	C585	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C586	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C587	NDC31HJ-151X	C CAPACITOR	150pF 50V J	1	
	C588	NDC31HJ-151X	C CAPACITOR	150pF 50V J	1	
	C589	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C590	QEKJ0JM-476Z-S	E CAPACITOR	47uF 6.3V M	1	
	C592	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C701	NDC31HJ-220X	C CAPACITOR	22pF 50V J	1	
	C702	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C709	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C711	NDC31HJ-681X	C CAPACITOR	680pF 50V J	1	
	C712	NDC31HJ-681X	C CAPACITOR	680pF 50V J	1	
	C713	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	1	
	C714	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C715	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C716	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C717	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	
	C718	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C719	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C721	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C722	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C723	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	1	
	C724	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C725	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	1	
	C727	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	
	C730	NDC31HJ-821X	C CAPACITOR	820pF 50V J	1	
	C731	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	
	C732	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	
	C733	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C735	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C736	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C737	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C738	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C739	NDC31HJ-470X	C CAPACITOR	47pF 50V J	1	
	C741	NDC31HJ-470X	C CAPACITOR	47pF 50V J	1	
	C742	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C744	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C771	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	
	C784	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C785	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	1	
	C801	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	1	A
	C881	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	1	
	C901	QEZ0936-278	E CAPACITOR	2700uF	1	
	C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	1	
	C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	1	
	C904	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	1	
	C906	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C907	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C908	QERF1AM-227Z	E CAPACITOR	220uF 10V M	1	
	C909	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	1	
	C910	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C911	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C915	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C916	NCB31HK-332X	C CAPACITOR	3300pF 50V K	1	
	C917	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	1	
	C918	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C921	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C922	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	
	C925	NCJ30JM-106X-A	C CAPACITOR	10uF 6.3V M	1	
	C928	NDC31HJ-391X	C CAPACITOR	390pF 50V J	1	
	C931	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C932	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C933	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C934	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C935	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C937	NCB31HK-682X	C CAPACITOR	6800pF 50V K	1	
	C938	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C939	QEZ0850-157Z	E CAPACITOR	150uF	1	
	C941	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C942	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C943	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C944	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C945	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C947	NCB31HK-682X	C CAPACITOR	6800pF 50V K	1	
	C948	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C949	QEZ0850-157Z	E CAPACITOR	150uF	1	
	C950	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C951	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	1	
	C953	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C961	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C962	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C963	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C964	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C965	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C966	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C967	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C968	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C982	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C990	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C992	NCB31HK-222X	C CAPACITOR	2200pF 50V K	1	
	R1	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	1	
	R2	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	1	
	R4	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R5	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	1	
	R6	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	1	
	R7	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	1	
	R8	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	1	
	R9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	B
	R14	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	1	
	R15	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	1	
	R90	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R92	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R93	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1	
	R94	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1	
	R95	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	1	
	R96	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R97	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R98	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R99	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	1	
	R100	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R101	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R104	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R165	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R175	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R181	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R182	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R185	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	1	
	R187	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R188	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R191	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R192	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R195	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	1	
	R197	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R198	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R201	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R202	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R203	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R205	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	1	
	R206	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	1	
	R211	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R212	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R213	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R215	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R216	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R261	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R262	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R264	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R265	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R266	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R267	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R268	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R271	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R274	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R275	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R276	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R277	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R278	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R302	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R306	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R307	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R309	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J	1	
	R310	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R311	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R312	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R313	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R314	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R317	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R322	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R323	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R324	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R331	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R332	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R333	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R334	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R341	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R342	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R343	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R344	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R351	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R352	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R353	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R354	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R361	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R362	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R365	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R366	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R381	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R382	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R385	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R386	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R502	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	
	R503	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R504	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R505	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R507	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R509	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R510	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R511	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	1	
	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R513	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R514	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R515	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	1	
	R516	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R517	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	
	R518	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R519	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R520	NRS124J-100X	MG RESISTOR	10Ω 1/2W J	1	
	R521	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R522	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	1	
	R523	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	
	R524	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	1	
	R540	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R541	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	1	
	R542	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	1	
	R544	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R546	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	1	
	R547	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	1	
	R548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R549	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R550	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R552	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	1	
	R553	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	1	
	R554	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R556	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R557	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R558	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R559	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R560	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R561	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R562	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R563	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J	1	
	R564	NRSA02J-100X	MG RESISTOR	10Ω 1/10W J	1	
	R565	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R566	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R571	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R572	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R573	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R574	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R575	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R576	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R577	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	1	
	R583	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	1	
	R584	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	1	
	R585	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R586	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	
	R587	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	1	
	R588	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	1	
	R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R592	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R593	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R594	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R601	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	1	
	R701	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R702	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	1	
	R703	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R705	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R707	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R710	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	1	
	R711	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R713	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R714	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R715	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R716	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	1	
	R717	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R719	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R720	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R721	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	1	
	R722	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R723	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R724	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R725	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	1	
	R726	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R727	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R728	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R729	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R730	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R731	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R733	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R734	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R735	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R737	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1	
	R738	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R739	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	1	
	R740	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	1	
	R742	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R743	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R744	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R745	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R746	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	B
	R748	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	A
	R748	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	1	B
	R749	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R751	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R752	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R754	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R755	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R757	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R758	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R759	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	A
	R760	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R761	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	1	
	R762	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A
	R763	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	A
	R764	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	A
	R765	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	A
	R766	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R767	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R768	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	1	
	R769	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	
	R770	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	1	
	R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	1	
	R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	1	
	R781	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R782	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R785	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R786	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R790	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	
	R791	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R792	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R793	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R794	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R797	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R799	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R801	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	1	A
	R803	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	A
	R804	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	A
	R805	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	A
	R806	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	A
	R807	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	A
	R808	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	A
	R809	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	A
	R810	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	A
	R811	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	A
	R812	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	1	A
	R814	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A
	R851	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	B
	R881	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	1	
	R882	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R901	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	1	
	R902	NRS181J-682X	MG RESISTOR	6.8kΩ 1/8W J	1	
	R903	NRSA02J-562X	MG RESISTOR	5.6kΩ 1/10W J	1	
	R904	NRSA63D-274X	MG RESISTOR	270kΩ 1/16W D	1	
	R905	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R906	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	1	
	R907	NRS181J-682X	MG RESISTOR	6.8kΩ 1/8W J	1	
	R921	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	1	
	R922	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R924	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	1	
	R925	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R931	NRSA63D-913X	MG RESISTOR	91kΩ 1/16W D	1	
	R932	NRSA63D-243X	MG RESISTOR	24kΩ 1/16W D	1	
	R933	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R934	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R935	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R936	NRSA63D-224X	MG RESISTOR	220kΩ 1/16W D	1	
	R941	NRSA63D-913X	MG RESISTOR	91kΩ 1/16W D	1	
	R942	NRSA63D-243X	MG RESISTOR	24kΩ 1/16W D	1	
	R943	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R944	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R945	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R946	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R947	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R948	NRSA63D-224X	MG RESISTOR	220kΩ 1/16W D	1	
	R949	NRS181J-271X	MG RESISTOR	270Ω 1/8W J	1	
	R971	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R972	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R973	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	1	
	R974	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R975	NRSA02J-473X	MG RESISTOR	47kΩ 1/10W J	1	
	R976	NRSA02J-683X	MG RESISTOR	68kΩ 1/10W J	1	
	R977	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R981	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	1	
	L1	NQL093K-R47X	P COIL	0.47uH K	1	
	L2	NQL093K-1R8X	P COIL	1.8uH K	1	
	L3	NQL093K-R27X	P COIL	0.27uH K	1	
	L4	QQR1872-001	RF COIL		1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	L5	QQL244J-561Z	COIL	560uH J	1	
	L6	QQL244J-561Z	COIL	560uH J	1	
	L8	NQL093K-4R7X	P COIL	4.7uH K	1	
	L9	NQL093K-R47X	P COIL	0.47uH K	1	
	L10	NQR0269-026X	FERRITE BEADS	10.500mA	1	A
	L161	NQL553J-27NX	COIL	27nH J	1	
	L162	NQL79GM-100X	COIL	10uH M	1	
	L201	NQL79GM-470X	COIL	47uH M	1	
	L521	NQL093K-1R8X	P COIL	1.8uH K	1	
	L701	NQL79GM-4R7X	COIL	4.7uH M	1	
	L702	NQL79GM-4R7X	COIL	4.7uH M	1	
	L703	NQL79GM-470X	COIL	47uH M	1	
	L901	QQR1883-001	CHOKE COIL		1	
	L902	NQL79GM-101X	COIL	100uH M	1	
	L931	QQL92AK-220Z	COIL	22uH K	1	
	L941	QQL92AK-220Z	COIL	22uH K	1	
	B106	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B202	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B301	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	B303	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	B307	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B308	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B309	NRS125J-0R0X	MG RESISTOR	0Ω 1/2W J	1	
	B310	NRS125J-0R0X	MG RESISTOR	0Ω 1/2W J	1	
	B311	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B312	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B370	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	B371	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B501	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	B905	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B924	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B932	NRZ0084-0R0X	MG RESISTOR	0Ω	1	
	B933	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	B934	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	B991	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	CN90	QGA2001F1-02	CONNECTOR	W-B (1-2)	1	
	CN472	QGA2001C1-05	CONNECTOR	W-B (1-5)	1	
	CN502	QGF1049F1-26X	CONNECTOR	FFC/FPC (1-26)	1	
	CN701	QGB1004K1-24	CONNECTOR	B-B (1-24)	1	
	CN901	QNZ0607-001	CAR CONNECTOR		1	
⚠	F902	NMFZ018-3R0X-E	FUSE	3A	1	
	J1	QNB0190-001	ANT TERMINAL		1	
	J1 or	QNB0348-001	ANT TERMINAL		1	
	J321	QNN0877-001	PIN JACK		1	
	J801	QNZ0095-001	CONNECTOR		1	A
	K162	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	K171	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	K172	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	K581	NQR0022-005X	FERRITE BEADS		1	
	K931	NQLH25M-4R7X	COIL	4.7uH M	1	
	K941	NQLH25M-4R7X	COIL	4.7uH M	1	
	LF472	NQR0682-001X	CHOKE COIL		1	
	PP1	QZW0010-001	STYLE PIN		1	
	PP2	QZW0010-001	STYLE PIN		1	
	PP3	QZW0010-001	STYLE PIN		1	
	PP4	QZW0010-001	STYLE PIN		1	
	X11	QAX0952-001Z	CRYSTAL		1	
	X201	NAX1133-001X	CRYSTAL		1	
	X521	QAX0714-001Z	C RESONATOR	16.000MHz	1	
	X701	NAX0647-001X	C RESONATOR	20.000MHz	1	
	X702	QAX0401-001	CRYSTAL	32.768KHz	1	

PANEL UNIT <02>

	IC601	PCA9624PW-X	IC		1	
	IC602	XC6120N242NG-X	IC		1	
	IC661	JES237G	IC(MCU)		1	
	IC681	KSM-2003TN5B	IR DETECT UNIT		1	
	Q601	2SC1623A/5-6/-X	TRANSISTOR		1	
	Q601 or	2SC3928A/QR/-X	TRANSISTOR		1	
	Q602	2SA812A/5-6/-X	TRANSISTOR		1	
	Q602 or	ISA1530AC1/QR/X	TRANSISTOR		1	
	Q603	2SA812A/5-6/-X	TRANSISTOR		1	
	Q603 or	ISA1530AC1/QR/X	TRANSISTOR		1	
	D601	NSSM065T-X	LED		1	
	D602	NSSM065T-X	LED		1	
	D603	NSSM065T-X	LED		1	
	D604	NSSM065T-X	LED		1	
	D605	NSSM065T-X	LED		1	
	D609	NSSM065T-X	LED		1	
	D610	NSSM065T-X	LED		1	
	D618	RKZ5.6B2KG-X	Z DIODE		1	
	D618 or	DZ2J056/M/-X	Z DIODE		1	
	D620	SML-D12V8W-X	LED		1	
	D621	SML-D12V8W-X	LED		1	
	D630	MC2838-X	DIODE		1	
	D640	RKZ5.1B2KG-X	SB DIODE		1	
	D640 or	DZ2J051/M/-X	Z DIODE		1	
	D641	RKZ5.1B2KG-X	SB DIODE		1	
	D641 or	DZ2J051/M/-X	Z DIODE		1	
	D651	RKS801KF-X	SI DIODE		1	
	D651 or	DA2J101-X	SI DIODE		1	
	D682	RKZ3.3B2KG-X	Z DIODE		1	
	D682 or	DZ2J033/M/-X	Z DIODE		1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	D693	RKZ6.2B2KG-X	Z DIODE		1	
	D693 or	DZ2J062/M/-X	Z DIODE		1	
	C601	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C602	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C604	NBE21CM-106X	TA E CAPACITOR	10uF 16V M	1	
	C605	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C606	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	1	
	C607	NCB11EK-475X	C CAPACITOR	4.7uF 25V K	1	
	C608	NCB11EK-475X	C CAPACITOR	4.7uF 25V K	1	
	C614	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C640	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C642	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	
	C643	NDC31HJ-220X	C CAPACITOR	22pF 50V J	1	
	C644	NDC31HJ-220X	C CAPACITOR	22pF 50V J	1	
	C650	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C661	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	1	
	C662	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C663	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	1	
	C667	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	1	
	C669	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	1	
	C671	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	1	
	C672	NDC31HJ-121X	C CAPACITOR	120pF 50V J	1	
	C682	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	R601	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R602	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R604	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R607	NRS181J-331X	MG RESISTOR	330Ω 1/8W J	1	
	R608	NRS181J-331X	MG RESISTOR	330Ω 1/8W J	1	
	R609	NRS181J-681X	MG RESISTOR	680Ω 1/8W J	1	
	R610	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	1	
	R611	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	1	
	R612	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	1	
	R613	NRS181J-122X	MG RESISTOR	1.2kΩ 1/8W J	1	
	R614	NRS181J-122X	MG RESISTOR	1.2kΩ 1/8W J	1	
	R615	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	1	
	R618	NRS181J-331X	MG RESISTOR	330Ω 1/8W J	1	
	R619	NRS181J-331X	MG RESISTOR	330Ω 1/8W J	1	
	R620	NRS181J-681X	MG RESISTOR	680Ω 1/8W J	1	
	R621	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R622	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R623	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1	
	R624	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	1	
	R625	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	1	
	R626	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R627	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R628	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1	
	R629	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	1	
	R630	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	1	
	R631	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R632	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R633	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1	
	R634	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	1	
	R635	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	1	
	R637	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	1	
	R641	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R642	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R644	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R645	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R646	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R647	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R649	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	1	
	R650	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R651	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R652	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	1	
	R653	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	1	
	R654	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R655	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R657	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R658	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R660	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	1	
	R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R662	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R663	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	1	
	R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R665	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R666	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	1	
	R667	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R668	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R669	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R670	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R671	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R672	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	1	
	R674	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R675	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R679	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R680	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R681	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R683	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R684	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R685	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R687	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R689	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R690	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R691	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R692	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R693	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	1	
	R694	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R695	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R696	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R697	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	1	
	R698	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R701	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	1	
	R702	NRS181J-122X	MG RESISTOR	1.2kΩ 1/8W J	1	
	R703	NRS181J-122X	MG RESISTOR	1.2kΩ 1/8W J	1	
	L603	NQL79GM-470X	COIL	47uH M	1	
	L604	NQR0022-005X	FERRITE BEADS		1	
	L661	NQL79GM-470X	COIL	47uH M	1	
	L677	NQR0007-002X	FERRITE BEADS		1	
	L687	NQR0007-002X	FERRITE BEADS		1	
	L690	NQR0007-002X	FERRITE BEADS		1	
	B606	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	B642	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	B697	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	CN601	QGB1004J2-24X	CONNECTOR	B-B (1-24)	1	
	CN602	QGF0534F5-15X	CONNECTOR	FFC/FPC (1-15)	1	
	CN603	QNZ1076-001	USB CONNECTOR		1	
	CN603 or	QNZ1057-001	USB CONNECTOR		1	
	EN601	QSW1231-002	ROTARY ENCODER		1	
	J601	QNS0298-001	3.5 JACK		1	
	LF691	NQR0682-001X	CHOKE COIL		1	
	S661	NSW0246-001X	TACT SWITCH		1	
	S662	NSW0246-001X	TACT SWITCH		1	
	S663	NSW0246-001X	TACT SWITCH		1	
	S664	NSW0246-001X	TACT SWITCH		1	
	S665	NSW0246-001X	TACT SWITCH		1	
	S666	NSW0246-001X	TACT SWITCH		1	
	S667	NSW0246-001X	TACT SWITCH		1	
	S668	NSW0246-001X	TACT SWITCH		1	
	S669	NSW0246-001X	TACT SWITCH		1	
	S670	NSW0246-001X	TACT SWITCH		1	
	S671	NSW0246-001X	TACT SWITCH		1	
	S672	NSW0246-001X	TACT SWITCH		1	
	S673	NSW0246-001X	TACT SWITCH		1	
	S674	NSW0246-001X	TACT SWITCH		1	
	S675	NSW0246-001X	TACT SWITCH		1	
	S676	NSW0246-001X	TACT SWITCH		1	
	S677	NSW0246-001X	TACT SWITCH		1	
	S691	NSW0246-001X	TACT SWITCH		1	
	TH601	NAD0028-103X	N THERMISTOR	10kΩ	1	
	X661	NAX0613-001X	C RESONATOR	16.000MHz	1	
USB UNIT <03>						
	IC401	TCC8600	IC		1	
	IC402	R1EX24512ASAS-X	IC		1	
	IC402 or	M24512-WMN6-X	IC		1	
	IC441	JVM546K	PROGRAMMED IC		1	
	IC442	A3V28S40FTP-G6	IC		1	
	IC471	74LVC1G3157GW-X	IC		1	
	IC481	MFI341S2162-X	IC		1	
	IC491	NJM2878F4-18-X	IC		1	
	IC601	PCM1780-X	IC		1	
	Q401 or	DRC5144E-X	DIGI TRANSISTOR		1	
	D601	RKZ5.1B2KG-X	SB DIODE		1	
	D601 or	DZ2J051/M/-X	Z DIODE		1	
	C401	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C402	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C403	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C404	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C405	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C406	NDCA1HJ-471W	C CAPACITOR	470pF 50V J	1	
	C407	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C408	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C409	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C410	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C414	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C415	NCBA1HK-122W	C CAPACITOR	1200pF 50V K	1	
	C416	NCJ30JM-106X-A	C CAPACITOR	10uF 6.3V M	1	
	C417	NDCA1HJ-331W	C CAPACITOR	330pF 50V J	1	
	C418	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	1	
	C419	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C420	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C421	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C422	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C423	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C424	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C425	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C426	NDCA1HJ-200W	C CAPACITOR	20pF 50V J	1	
	C430	NQR0450-001X	EMI FILTER	0.022uF 50V M	1	
	C441	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C442	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	1	
	C443	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	1	
	C444	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C445	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C446	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C447	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C448	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C449	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C450	NDC31HJ-561X	C CAPACITOR	560pF 50V J	1	
	C451	NDCA1HJ-471W	C CAPACITOR	470pF 50V J	1	
	C452	NDCA1HJ-471W	C CAPACITOR	470pF 50V J	1	
	C453	NDCA1HJ-471W	C CAPACITOR	470pF 50V J	1	
	C454	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	1	
	C455	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	1	
	C471	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C481	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C482	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C491	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	1	
	C492	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C493	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C494	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C495	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	1	
	C497	NDC31HJ-331X	C CAPACITOR	330pF 50V J	1	
	C601	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	1	
	C602	NCBA1CK-123W	C CAPACITOR	0.012uF 16V K	1	
	C603	NCBA1CK-104W	C CAPACITOR	0.1uF 16V K	1	
	C604	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	1	
	C605	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	1	
	C606	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	1	
	R401	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	1	
	R402	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	1	
	R403	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	1	
	R404	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	1	
	R405	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	1	
	R406	NQR0022-005X	FERRITE BEADS		1	
	R407	NQR0286-007X	FERRITE BEADS		1	
	R408	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	1	
	R409	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	1	
	R410	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R411	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R412	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R413	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R414	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R415	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R416	NRSA6AJ-271W	MG RESISTOR	270Ω 1/16W J	1	
	R417	NRSA6AJ-271W	MG RESISTOR	270Ω 1/16W J	1	
	R418	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R419	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R420	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R421	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	1	
	R422	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	1	
	R423	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R425	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	1	
	R426	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R427	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R428	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R429	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	1	
	R430	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	1	
	R431	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	1	
	R432	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	1	
	R435	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R436	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	1	
	R441	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	1	
	R443	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R444	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	1	
	R445	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R446	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R451	NQR0286-007X	FERRITE BEADS		1	
	R452	NQR0286-007X	FERRITE BEADS		1	
	R453	NQR0286-007X	FERRITE BEADS		1	
	R454	NQR0286-007X	FERRITE BEADS		1	
	R455	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R456	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R457	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	1	
	R458	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	1	
	R462	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	1	
	R463	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	1	
	R469	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	1	
	R481	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	1	
	R521	NQR0286-007X	FERRITE BEADS		1	
	R601	NQR0286-007X	FERRITE BEADS		1	
	R602	NQR0286-007X	FERRITE BEADS		1	
	R603	NQR0286-007X	FERRITE BEADS		1	
	R604	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	1	
	R605	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	1	
	R606	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	1	
	R607	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	1	
	R608	NRS181J-181X	MG RESISTOR	180Ω 1/8W J	1	
	R609	NRS181J-181X	MG RESISTOR	180Ω 1/8W J	1	
	L401	NQL093K-R12X	P COIL	0.12uH K	1	
	L402	NQL093K-R12X	P COIL	0.12uH K	1	
	L403	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	L404	NQR0022-005X	FERRITE BEADS		1	
	L405	NQR0022-005X	FERRITE BEADS		1	
	L406	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	1	

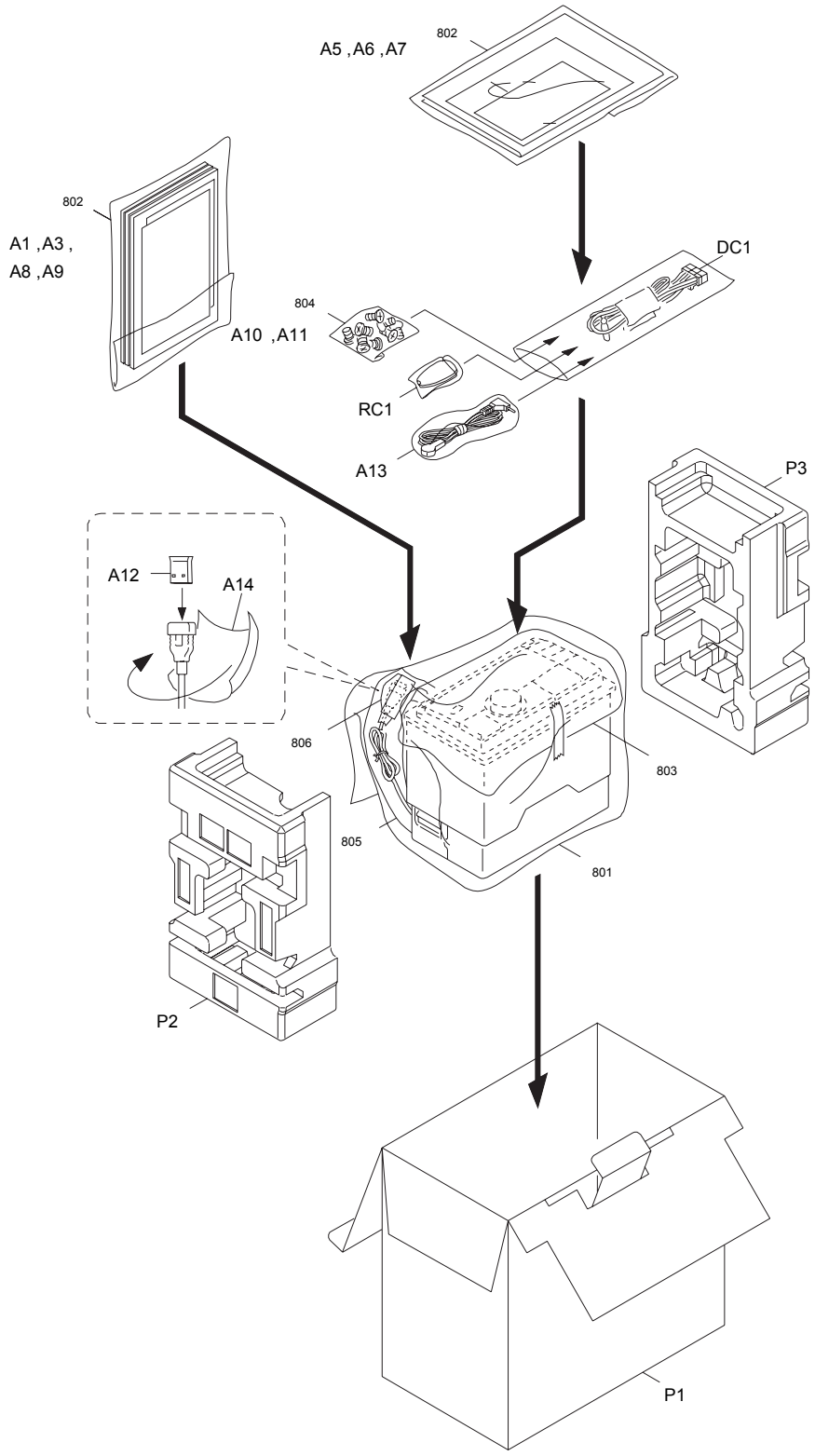
MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	L407	NQR0022-005X	FERRITE BEADS		1	
	L491	NQL79GM-4R7X	COIL	4.7uH M	1	
	L601	NQL79GM-470X	COIL	47uH M	1	
	CN441	QGG2011M1-18X	CONNECTOR	(1-18)	1	
	CN442	QGG2011M1-18X	CONNECTOR	(1-18)	1	
	CN444	QGG2504M5-02	CONNECTOR	(1-2)	1	
	K441	NQR0502-001X	FERRITE BEADS		1	
	K442	NQR0286-007X	FERRITE BEADS		1	
	K443	NQR0286-007X	FERRITE BEADS		1	
	K444	NQR0286-007X	FERRITE BEADS		1	
	K445	NQR0286-007X	FERRITE BEADS		1	
	K446	NQR0286-007X	FERRITE BEADS		1	
	K447	NQR0286-007X	FERRITE BEADS		1	
	K448	NQR0286-007X	FERRITE BEADS		1	
	K451	NQR0022-005X	FERRITE BEADS		1	
	K452	NQR0286-007X	FERRITE BEADS		1	
	K453	NQR0286-007X	FERRITE BEADS		1	
	LF409	NQR0682-001X	CHOKE COIL		1	
	LF410	NQR0682-001X	CHOKE COIL		1	
	X401	NAX1168-001X	CRYSTAL		1	
CD PLYAER UNIT (FLM-HC3-1D) <04>						
	R1	NRSA63J-131X	MG RESISTOR	130Ω 1/16W J	1	
	CN101	QGF1044F2-26X	CONNECTOR	FFC/FPC (1-26)	1	
	CN102	QGF0522F3-15W	CONNECTOR	FFC/FPC (1-15)	1	
	SW1	NSW0291-001X	DETECT SWITCH		1	
	SW1 or	NSW0233-001X	DETECT SWITCH		1	
	SW2	NSW0291-001X	DETECT SWITCH		1	
	SW2 or	NSW0233-001X	DETECT SWITCH		1	
	SW3	NSW0291-001X	DETECT SWITCH		1	
	SW3 or	NSW0233-001X	DETECT SWITCH		1	
	SW4	NSW0291-001X	DETECT SWITCH		1	
	SW4 or	NSW0233-001X	DETECT SWITCH		1	

PACKING AND ACCESSORIES (US)

Block No.M3MM

No additional / supplemental order of WARRANTY CARDs are available.



Parts with the exploded numbers lager than 700 are not supplied.

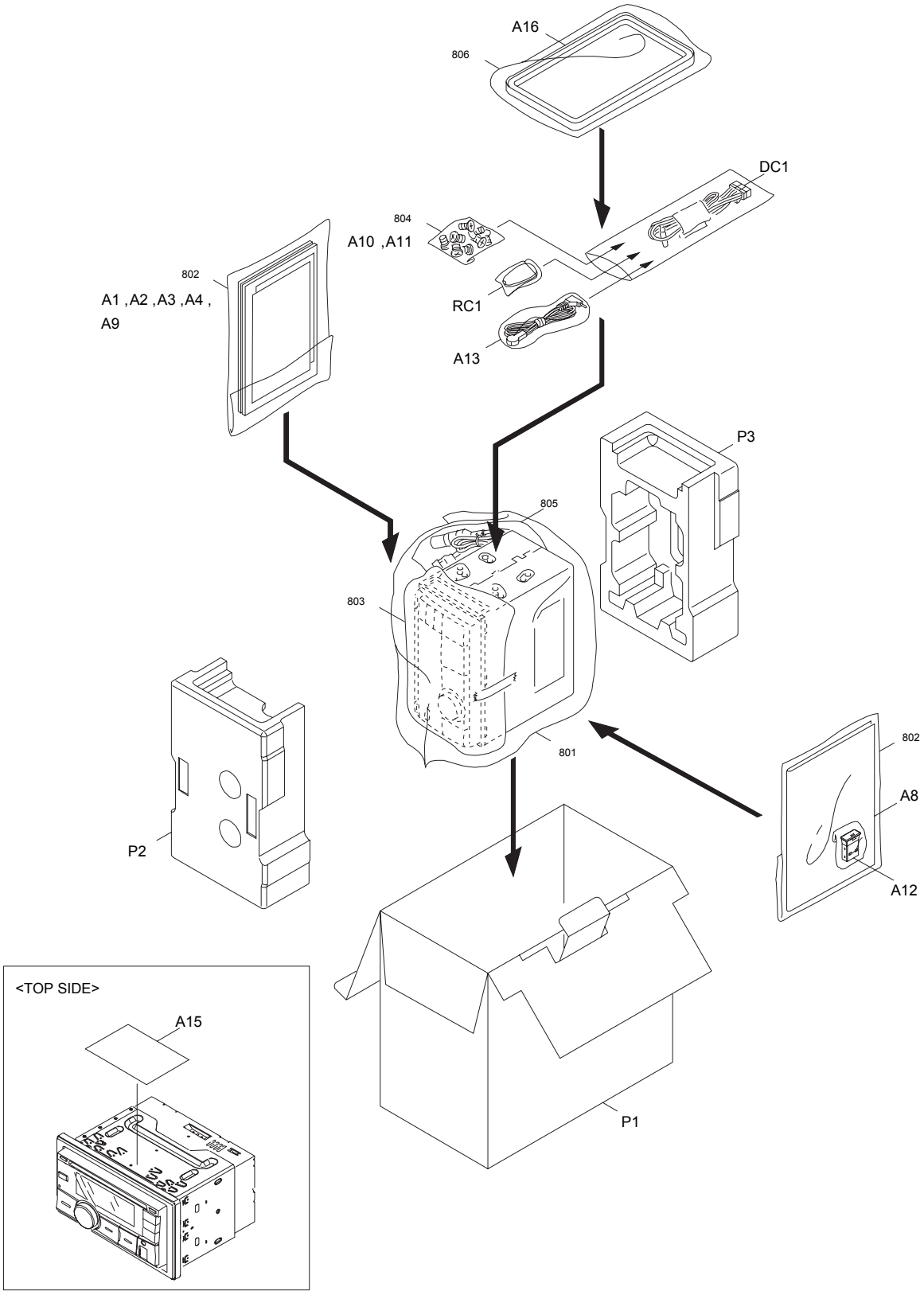
MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
PACKING AND ACCESSORIES(US) <M3MM>						
	DC1	QAM1331-001	DC CORD		1	A
	RC1	RM-RK52M	REMOCON UNIT		1	A
	A1	GET0808-001A	INST BOOK	ENG SPA FRE	1	A
	A3	GET0808-002A	INSTALL MANUAL	ENG SPA FRE	1	A
	A5	----------	WARRANTY CARD	BT-51018-6	1	A
	A6	----------	WARRANTY CARD	BT-52008-1	1	A
	A7	BT-51044-1	REGISTRATION CARD	BT-51044-1	1	A
	A8	GET0617-001H	USB/BT ADP SHT		1	A
	A9	GET0820-001A	BT COUNTRY LIST		1	A
	A10	QYSDSP5008ZA	SCREW	M5 x 8mm	8	A
	A11	QYSSSP5008ZA	SCREW	M5 x 8mm	4	A
	A12	QAU0526-002	RF MODULE		1	A
	A13	QAN0109-001	MICROPHONE		1	A
	A14	GET0725-001A	BT DONGLE SHEET		1	A
	P1	GE34972-001A	INNER CARTON		1	A
	P2	GE10280-003A	CUSHION L		1	A
	P3	GE10281-001A	CUSHION R		1	A

PACKING AND ACCESSORIES (ASIA)

Block No.M4MM

No additional / supplemental order of WARRANTY CARDs are available.



Parts with the exploded numbers lager than 700 are not supplied.

MODEL	MARK	MODEL	MARK
KW-R900BTJ	A	KW-R900BTU	B

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
PACKING AND ACCESSORIES(ASIA) <M4MM>						
	DC1	QAM1332-001	DC CORD		1	B
	RC1	RM-RK52M	REMOCON UNIT		1	B
	A1	GET0809-001A	INST BOOK	ENG CHI(TAIWAN)	1	B
	A2	GET0809-002A	INST BOOK	RUS THA ARA PER	1	B
	A3	GET0809-003A	INSTALL MANUAL	ENG CHI(TAIWAN)	1	B
	A4	GET0809-004A	INSTALL MANUAL	RUS THA ARA PER	1	B
	A8	GET0617-001H	USB/BT ADP SHT		1	B
	A9	GET0820-001A	BT COUNTRY LIST		1	B
	A10	QYSDSP5008ZA	SCREW	M5 x 8mm	8	B
	A11	QYSSSP5008ZA	SCREW	M5 x 8mm	8	B
	A12	QAU0526-002	RF MODULE		1	B
	A13	QAN0109-001	MICROPHONE		1	B
	A15	GET0713-001A	CAUTION SHEET		1	B
	A16	GE20224-001A	TRIM PLATE		1	B
	P1	GE34975-001A	INNER CARTON		1	B
	P2	GE10332-001A	CUSHION F		1	B
	P3	GE10333-001A	CUSHION R		1	B