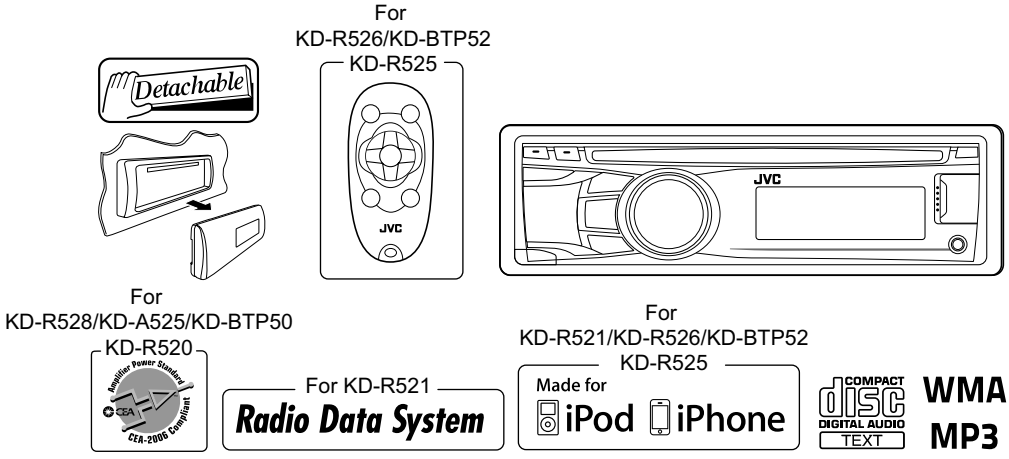
JVC

SERVICE MANUAL

CD RECEIVER

KD-A525J, KD-BTP50J, KD-BTP52U, KD-R520J, KD-R521E, KD-R521EU, KD-R521EY, KD-R524UI, KD-R525U, KD-R525UH, KD-R525UN, KD-R526U, KD-R526UH, KD-R526UN, KD-R526UT, KD-R528J



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)

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No.MA479<Rev.002>
2011/2

SPECIFICATION

KD-A525, KD-BTP50, KD-R520, KD-R528			
AUDIO AMPLIFIER SECTION			
Power Output	20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N		
Signal-to-Noise Ratio	80 dBA (reference: 1 W into 4 Ω)		
Load Impedance	4 Ω (4 Ω to 8 Ω allowance)		
Frequency Response	40 Hz to 20 000 Hz		
Line-Out or Subwoofer-Out Level/Impedance	2.5 V/20 kΩ load (full scale)		
Output Impedance	1 KΩ		
Other Terminal	USB input terminal, Front auxiliary input jack, Rear auxiliary/Bluetooth adapter input jack, Antenna terminal		
TUNER SECTION			
Frequency Range	FM	with channel interval set to 200 kHz	87.9 MHz to 107.9 MHz
		with channel interval set to 50 kHz	87.5 MHz to 108.0 MHz
	AM	with channel interval set to 10 kHz	530 kHz to 1 700 kHz
		with channel interval set to 9 kHz	531 kHz to 1 611 kHz
FM Tuner	Usable Sensitivity		9.3 dBf (0.8 μV/75 Ω)
	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 Tuner	Sensitivity/Selectivity		20 μV/40 dB
CD PLAYER SECTION			
Type	Compact disc player		
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	98 dB		
Wow and Flutter	Less than measurable limit		
MP3 Decoding Format (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps		
WMA (Windows Media® Audio) Decoding Format	Max. Bit Rate: 192 kbps		
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		
Max. Current	DC 5 V ⎓ 500 mA		
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 × 52 mm × 159 mm (7-3/16'' × 2-1/16'' × 6-5/16'')
	Panel Size		188 mm × 59 mm × 9 mm (7-7/16'' × 2-3/8'' × 3/8'')
Mass	1.2 kg (2.7 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.
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

KD-R521			
AUDIO AMPLIFIER SECTION			
Maximum Power Output	Front/Rear	50 W per channel	
Continuous Power Output (RMS)	Front/Rear	20 W per channel into 4 Ω,40 Hz to 20 000 Hz at no more 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	70 dB		
Line-Out or Subwoofer-Out Level/Impedance	2.5 V/20 kΩ load (full scale)		
Output Impedance	≤ 600 Ω		
Other Terminal	USB input terminal, Front auxiliary input jack, Rear auxiliary/Bluetooth adapter input jack, Aerial input		
TUNER SECTION			
Frequency Range	FM	87.5 MHz to 108.0 MHz	
	AM	MW	531 kHz to 1 611 kHz
		LW	153 kHz to 279 kHz
FM Tuner	Usable Sensitivity		9.3 dBf (0.8 μV/75 Ω)
	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
MW Tuner	Sensitivity/Selectivity		20 μV/40 dB
LW Tuner	Sensitivity		50 Mv
CD PLAYER SECTION			
Type	Compact disc player		
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	98 dB		
Wow and Flutter	Less than measurable limit		
MP3 Decoding Format (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps		
WMA (Windows Media® Audio) Decoding Format	Max. Bit Rate: 192 kbps		
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		
Max. Current	DC 5 V ⎓ 500 mA		
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):(approx.)	Installation Size		182 mm × 52 mm × 159 mm
	Panel Size		188 mm × 59 mm × 9 mm
Mass	1.2 kg (excluding accessories)		

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- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- KD-R521:''Made for iPod,'' and ''Made for iPhone'' mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.
- iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

KD-BTP52, KD-R524, KD-R525, KD-R526		
AUDIO AMPLIFIER SECTION		
Maximum Power Output	50 W per channel	
Continuous Power Output (RMS)	20 W per channel into 4 Ω,40 Hz to 20 000 Hz at no more than 1% total harmonic distortion.	
Signal-to-Noise Ratio	70 dB	
Load Impedance	4 Ω (4 Ω to 8 Ω allowance)	
Frequency Response	40 Hz to 20 000 Hz	
Line-Out or Subwoofer-Out Level/Impedance	2.5 V/20 kΩ load (full scale)	
Output Impedance	1 k Ω	
Other Terminal	USB input terminal, Front auxiliary input jack, Rear auxiliary/Bluetooth adapter input jack, Antenna terminal	
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 611 kHz
FM Tuner	Usable Sensitivity	9.3 dBf (0.8 μV/75 Ω)
	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 Tuner	Sensitivity/Selectivity	20 μV/40 dB
CD PLAYER SECTION		
Type	Compact disc player	
Signal Detection System	Non-contact optical pickup (semiconductor laser)	
Number of Channels	2 channels (stereo)	
Frequency Response	5 Hz to 20 000 Hz	
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MP3 Decoding Format (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps	
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- iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

SECTION 1
PRECAUTION

1.1 Safety Precautions

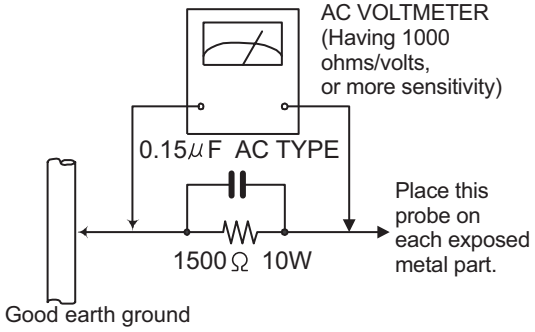
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the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

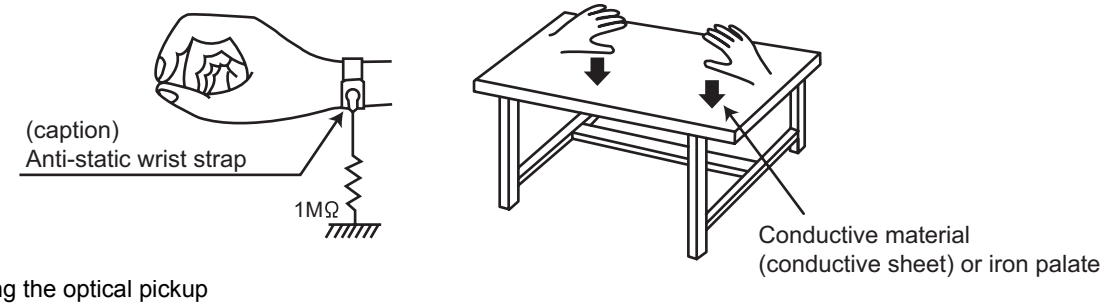
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

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.

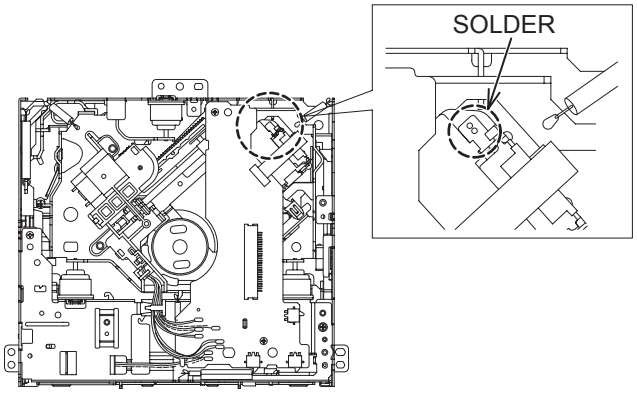
1.6 Handling the traverse unit (optical pickup)

(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.

احتیاط: 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)	RADIACION LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA 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) LV44603-003A

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 KD-BTP50J and KD-BTP52U

The KD-BTP50J and the KD-BTP52U are packaged products of a CD RECEIVER and a BLUETOOTH ADAPTER.

Model	CD RECEIVER	BLUETOOTH ADAPTER
KD-BTP50J	KD-R520	KS-BTA100
KD-BTP52U	KD-R525	KS-BTA100

SECTION 3
DISASSEMBLY

3.1 Main body (Used model: KD-R521)

3.1.1 Removing the Bottom chassis (See Fig.1)

(1) Disengage the seven hooks **a** engaging the Bottom chassis.
(2) Slide the Bottom chassis backward to remove it.

Fig.1

3.1.2 Removing the Front chassis (See Fig.2)

(1) Disengage the four hooks **b** engaging both sides of the Front chassis.

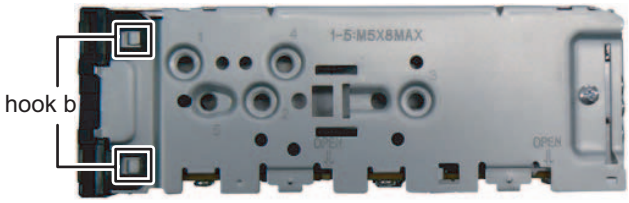


Fig.2

3.1.3 Removing the Main board (See Fig.3, 4 and 5)

(1) Remove the one screw **A** attaching the Rear Bracket. (See Fig.3)

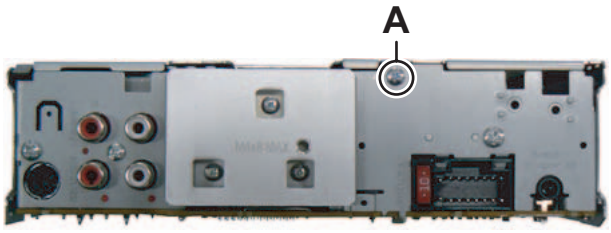


Fig.3

(2) Remove the two screws **B** attaching both sides of the Top chassis. (See Fig.4)

Fig.4

(3) Remove the three screws **C** attaching the Main board. (See Fig.5)
(4) Disconnect the board to board connector CN502 connecting the Main board and the CD mechanism. (See Fig.5)

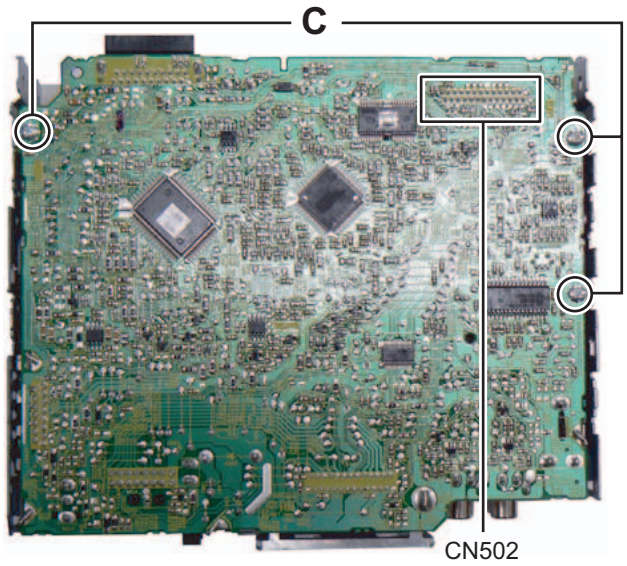


Fig.5

3.1.4 Removing the CD mechanism (See Fig.6)

(1) Remove the three screws **D** attaching the CD mechanism.

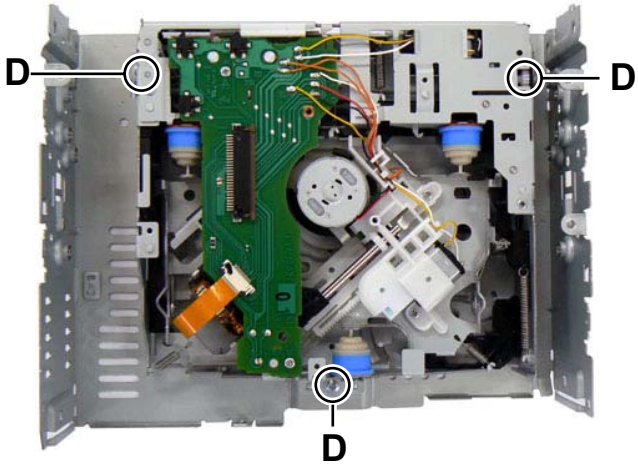


Fig.6

3.1.5 Removing the Switch board (See Fig.7)

(1) Remove the Volume knob.
(2) Remove the four screws **E** attaching the Rear cover.
(3) Disengage the twelve hooks **c** engaging the Rear cover.

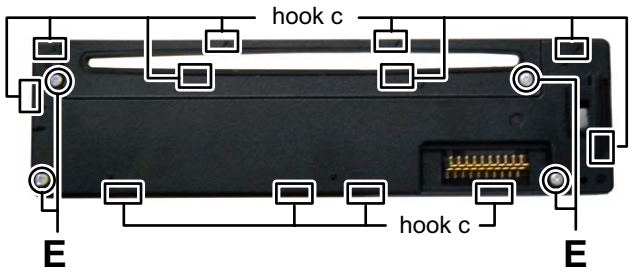


Fig.7

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)

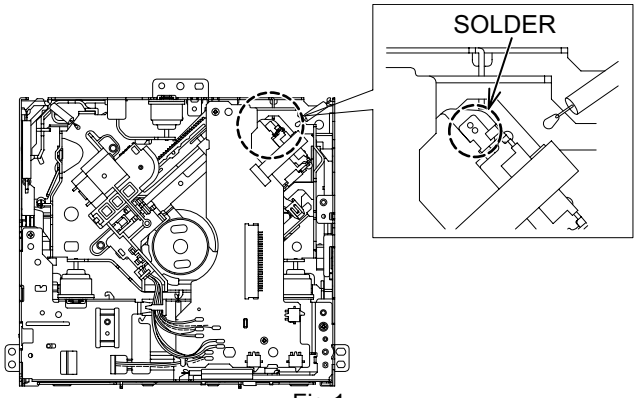


Fig.1

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

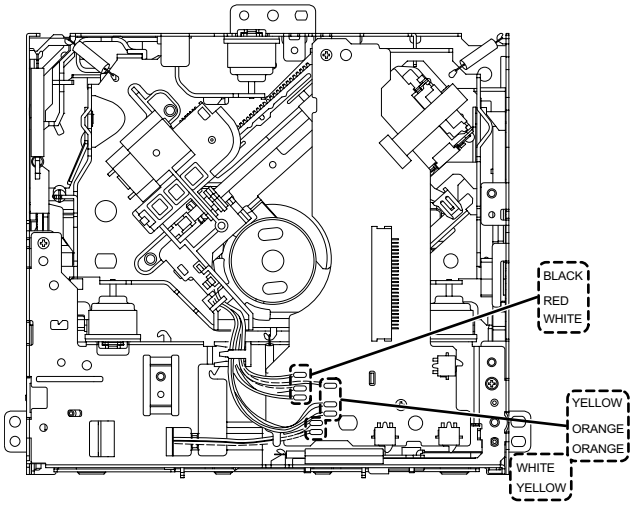


Fig.2

(3) Disconnect the flexible wire from the pickup connected to the connector CN102 on the Mecha control board. (See Fig.3)
(4) Remove the two screws **A** attaching the Mecha control board. (See Fig.3)

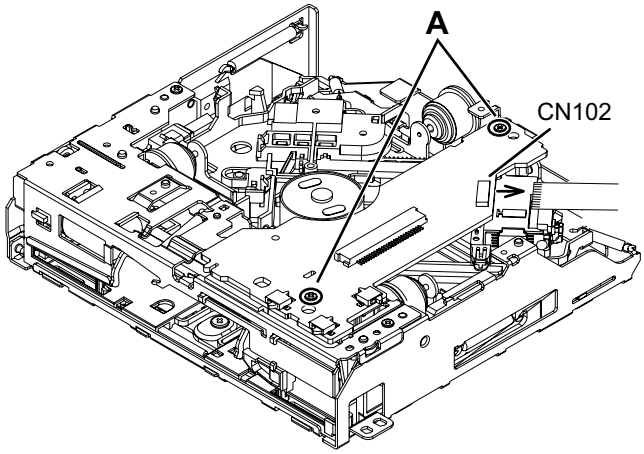


Fig.3

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

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

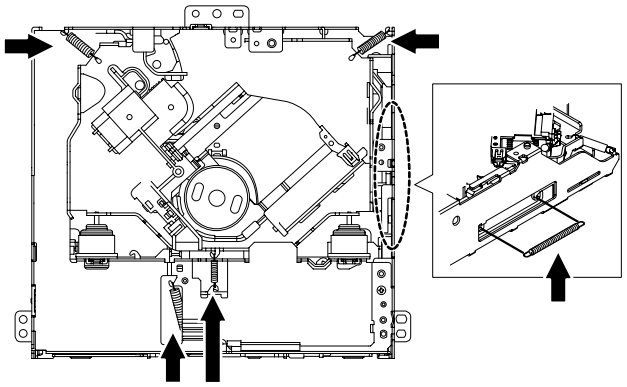


Fig.4

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

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

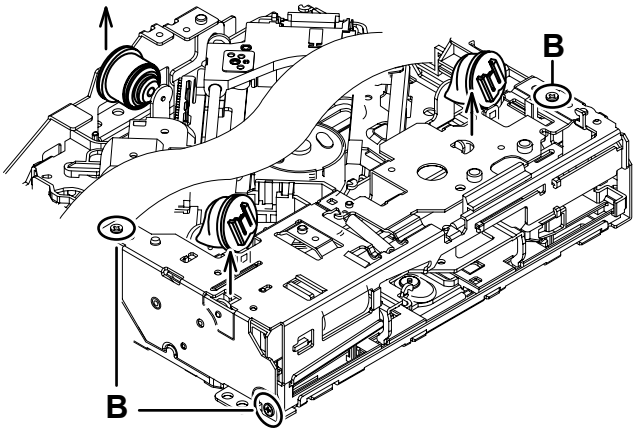


Fig.5

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

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

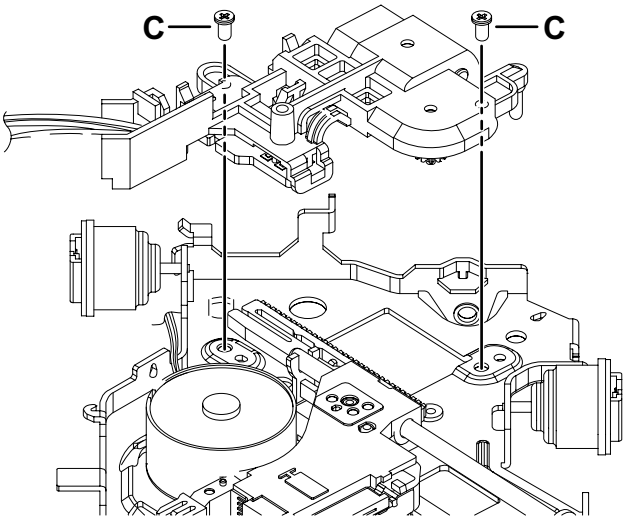


Fig.6

(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)

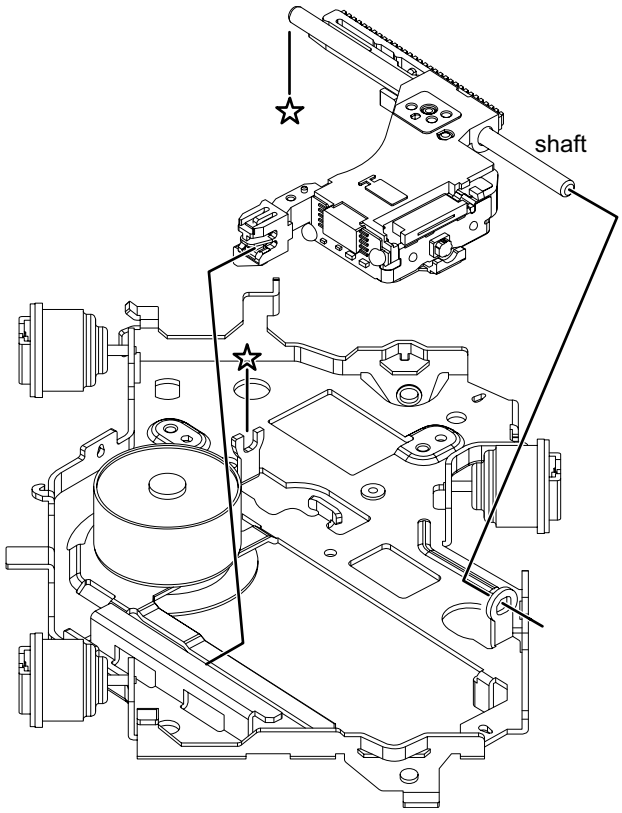


Fig.7

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)

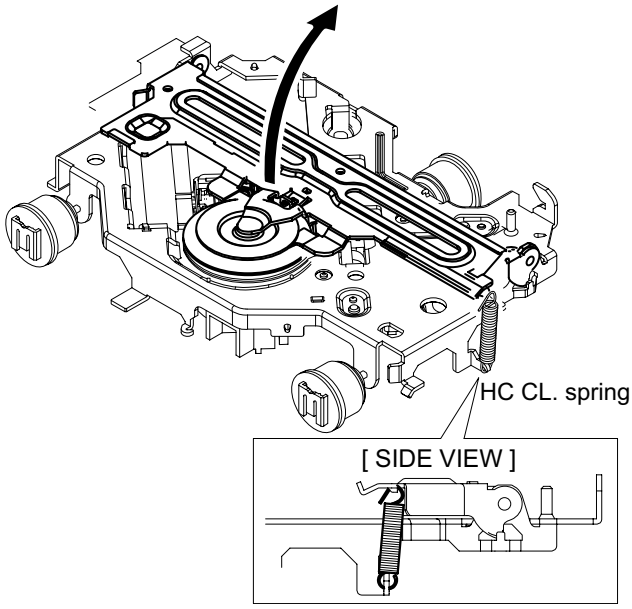


Fig.8

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

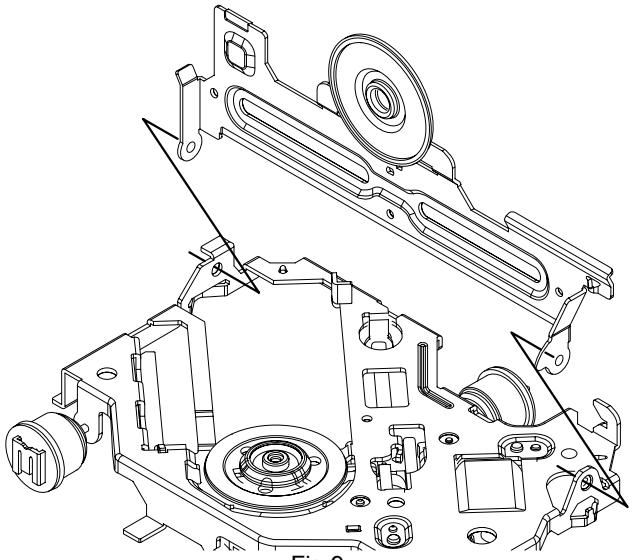


Fig.9

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

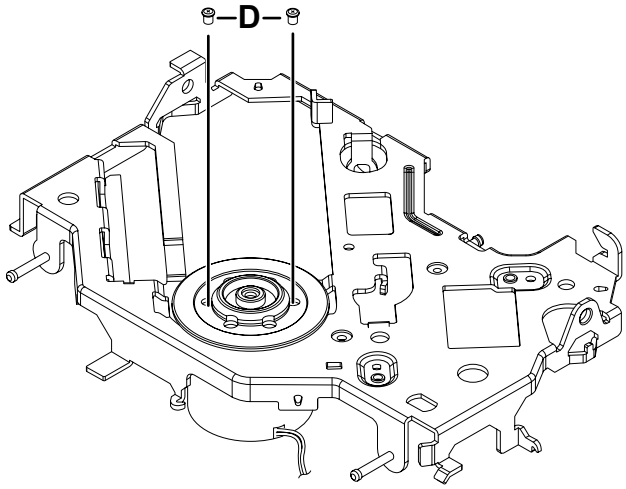


Fig.10

3.2.5 Removing the Loading motor

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

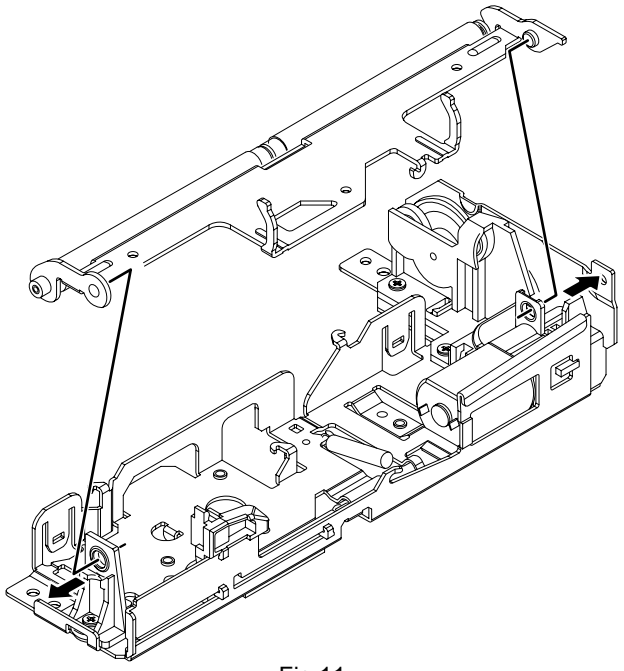


Fig.11

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

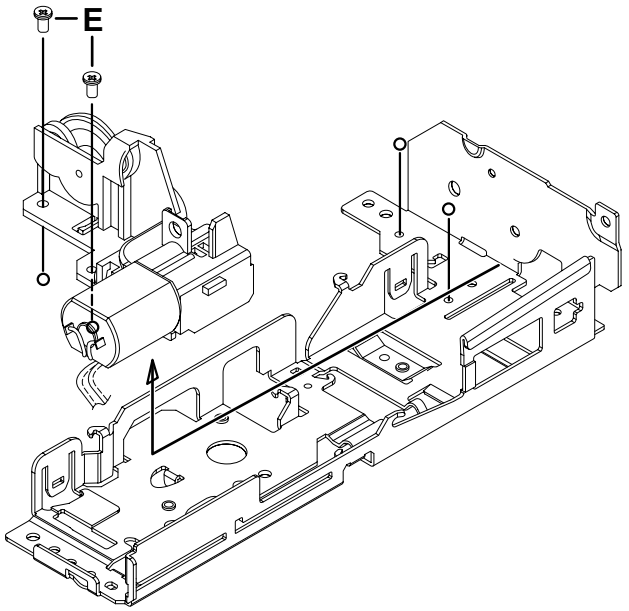


Fig.12

SECTION 4
ADJUSTMENT

4.1 Test instruments required for adjustment

(1) Digital oscilloscope (100MHz)
(2) Digital tester
(3) Test Disc

4.2 Standard measuring conditions

Power supply voltage DC14.4V(10.5 to 16V)
Load impedance 20K ohm (2 Speakers connection)
Output Level Line out 2.5V (Vol. MAX)

4.3 Standard volume position

Balance and Bass &Treble volume : Indication"0"
Loudness : OFF

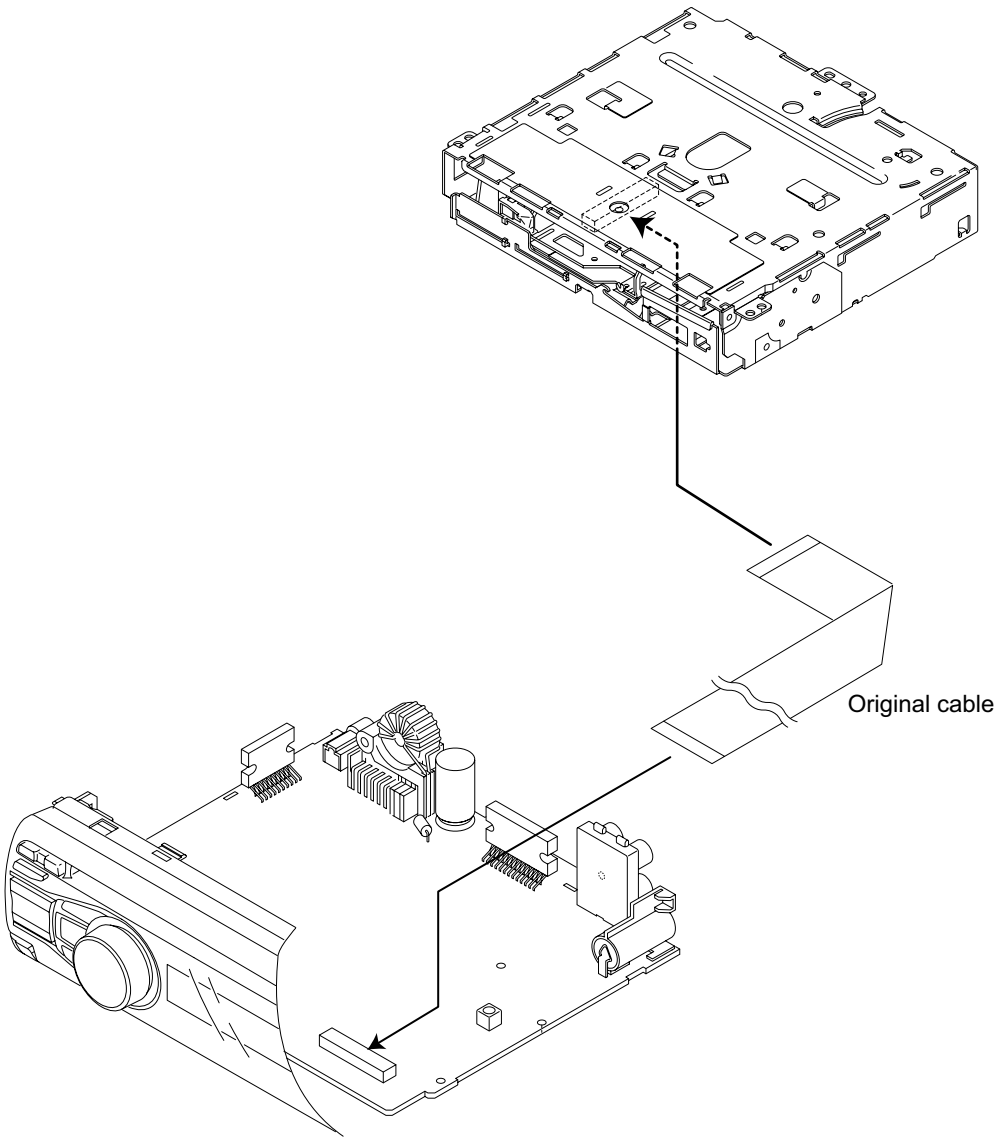
4.4 Dummy load

Exclusive dummy load should be used for AM,and FM.
For FM dummy load, there is a loss of 6dB between SSG output and antenna input.
The loss of 6dB need not be considered sincedirect reading of figures are applied in this working standard.

4.5 4.5 How to connect the cable for adjusting

Caution:

Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power.
If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.



4.6 Service mode

Operating Key : [MENU] → [DOWN] (7sec)

4.6.1 Mode content

Syscon shall display the information after entering this mode. The operation shown below shall be workable.

Display content	Detail
S R V ☐ T E S T ☐ ☐ ☐	The display is released when another operation is executed.

4.6.2 Common operation mode for all sources.

Operation	Display content		Detail
EQ	CD error information display mode	Transit CD error information display mode	
MENU	Syscon version display	S Y S ☐ # @ @ @ ☐ ☐ ☐	# = Display of destination. J = USA, R = EUROPE, E = EASTERN-EUROPE U = OTHERS(eq. ASIS), @@@ = Syscon version
UP	Syscon version display	P O N T M ☐ 0 H X X ☐	00~50 are displayed in " X X ". For less than 1 hour, the display is indicated per 10 minutes.
		P O N T M ☐ 0 X X X X	00001~10922 are displayed in " X X X X X ". MAX 10922 (hours).
■UP	Power ON duration clear	P O N T M ☐ 0 H 0 0 ☐	Clear Power ON duration by pressing for 2 seconds when Power ON duration is displayed.
DOWN	Disc operation duration display	C D T M ☐ ☐ 0 H X X ☐	00~50 are displayed in " X X ". For less than 1 hour, the display is indicated per 10minutes.
		C D T M ☐ ☐ X X X X X	00001~10922 are displayed in " X X X X X ". MAX 10922 (hours).
■DOWN	Disc operation duration clear	C D T M ☐ ☐ 0 H 0 0 ☐	Clear Disc operation duration by pressing for 2 seconds when it is displated (Only the displayed media is cleared).
BRIGHTNESS	Disc eject number of times	E J C N T ☐ X X X X X	Display Disc Eject number of times. MAX 65535 (times)
■BRIGHTNESS	Disc eject number of times clear	E J C N T ☐ 0 H 0 0 ☐	Clear Disc Eject number of times by pressing for 2 seconds when it is displayed.
I<<	Force Power OFF information display	P O F F ☐ ☐ - - - ☐ ☐	No force Power OFF
		P O F F ☐ P N L ☐ ☐ ☐	Force Power OFF due to Syscon-Panel commnication error.
■I<<	Force Power OFF information clear	P O F F ☐ ☐ - - - ☐ ☐	Clear force Power OFF information by pressing for 2 seconds when it is displayed.

4.6.3 CD error information display mode

Operation	Display content		Detail
Move between DISP (Forward search) item with I<< / >>I	CD mecha error log display	M E C H A ☐ E R # X X	Mecha error history 1,2,3 (latest) # = History No. (1,2,3) X X : number of errors, " -- " when there is none.
	CD load error informationdisplay	L O A D ☐ ☐ E R # X X	Load error switch 1,2 # = History No. (1,2) X X : number of errors, " -- " when there is none.
	CD load error informationdisplay	E J E C T ☐ E R # X X	Eject error switch 1,2,3,4 # = History No. (1,2,3,4) X X : number of errors, " -- " when there is none.
	CD time code error count informationdisplay (count skip)	C N T ☐ L O S E ☐ ☐ ☐	CD time code error count information (count updated) mode display
		C D D A ☐ ☐ ☐ ☐ ☐ X X	CD-DA error count numbers X X : numbers of errors and " -- " when there is none
		C D R O M ☐ ☐ ☐ ☐ X X	CD-ROM (compressed file) error count numbers X X : numbers of errors and " -- " when there is none
	CD time code error count information display (no count update)	C N T ☐ S T A Y ☐ ☐ ☐	CD time code error count information (count not updated) mode display
		C D D A ☐ ☐ ☐ ☐ ☐ X X	CD-DA error count numbers X X : numbers of errors and " -- " when there is none
		CD error information all clear C D R O M ☐ ☐ ☐ ☐ X X	CD-ROM (compressed file) error count numbers X X : numbers of errors and " -- " when there is none
■EQ	CD error informationclear	M E C H A ☐ E R 1 - -	Clear CD error information by pressing for 2 seconds when it is displayed.
EQ	Mode release	CD error information display mode release	Back to default status, All lights on

4.7 Service information clear mode

* The receiver is connected with the DC power supply (with the power supply turned off).
Operating Key : [BACK] → [POWER] → [DC power supply turned ON]
Mode content
After entering this mode, Syscom shall clear the information stored for service an output to the display.

Display content	Detail
D A T A □ C L R □ O K	When normal end
D A T A □ C L R □ N G	When error end

4.7.1 The following table shows the data that is cleared.

Information for data clearing	Detail
CD mecha information	CD mecha log display
	CD load error information display
	CD eject error information display
	CD time code error count information display (count skip)
	CD time code error count information display (no count update)
Service information	Power ON duration display
	CD operation duration display
	CD eject number of times display
	Force power OFF information display
DC error information	DC error 1 display (wrong connection and other detection information in detectiong duration)
	DC error 2 display (capacitor leakage detection number information)

4.8 DC error information mode

* The receiver is connected with the DC power supply (with the power supply turned off).
Operating Key : [MENU] → [UP] → [DC power supply turned ON]

4.8.1 Mode content

Syscon shall display the following after entering this mode. The operation shown below shall be workable.

Display content	Detail
D C □ □ E R R □ □ □ □	When DC error is detected (in case that one of capacitor leakage, wrong connection or other detection is found).
D C □ □ O K □ □ □ □ □	When DC error is not detected (in case that none of capacitor leakage, wrong connection or other detection is found).

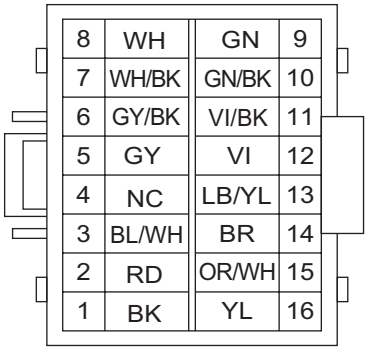
4.8.2 Mode operation specification

Operation	Display content		Detail
UP	DC ERR1 display	D C 1 □ E R R □ □ □ □	When wrong connection & DC error in other detection duration is detected.
		D C 1 □ O K □ □ □ □ □	When wrong connection & DC error in other detection duration is not detected.
■UP	DC ERR1 clear	D C 1 □ O K □ □ □ □ □	Clear detection information when wrong connection & DC error in other detection duration is displayed.(Clear data flash)
DOWN	DC ERR2 display	D C 2 □ 4 □ □ □ □ □ □	Display detecting number of times in capacitor leakage detection duration (0~4)
■DOWN	DC ERR2 clear	D C 2 □ 0 □ □ □ □ □ □	Clear number of times for detection information in capacitor leakage detection duration.(Clear data flash)

SECTION 5
TROUBLESHOOTING

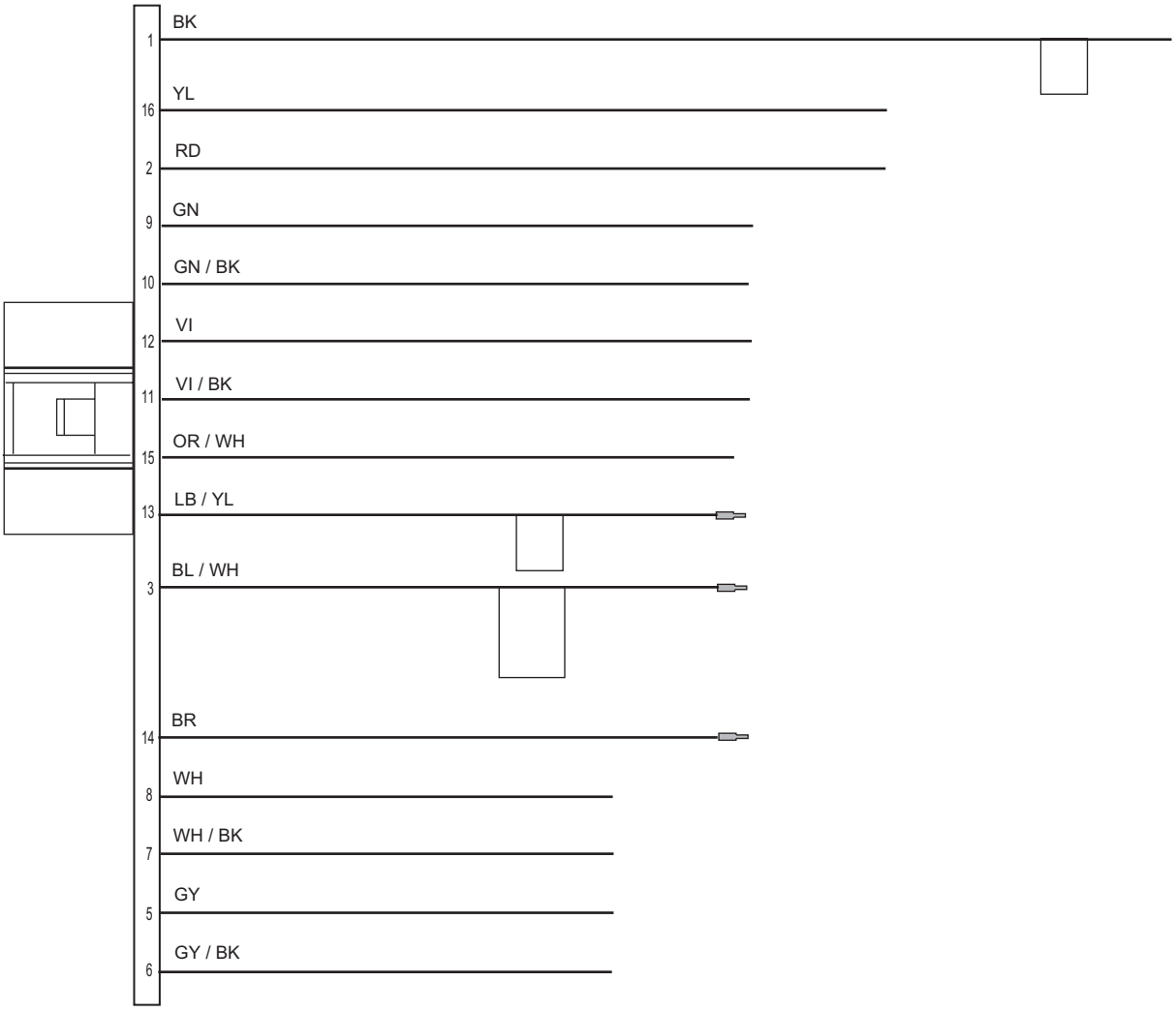
5.1 16PIN CORD DIAGRAM

5.1.1 For KD-A525,KD-R528

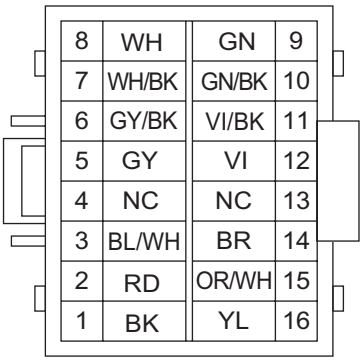


8	WH	GN	9
7	WH/BK	GN/BK	10
6	GY/BK	VI/BK	11
5	GY	VI	12
4	NC	LB/YL	13
3	BL/WH	BR	14
2	RD	OR/WH	15
1	BK	YL	16

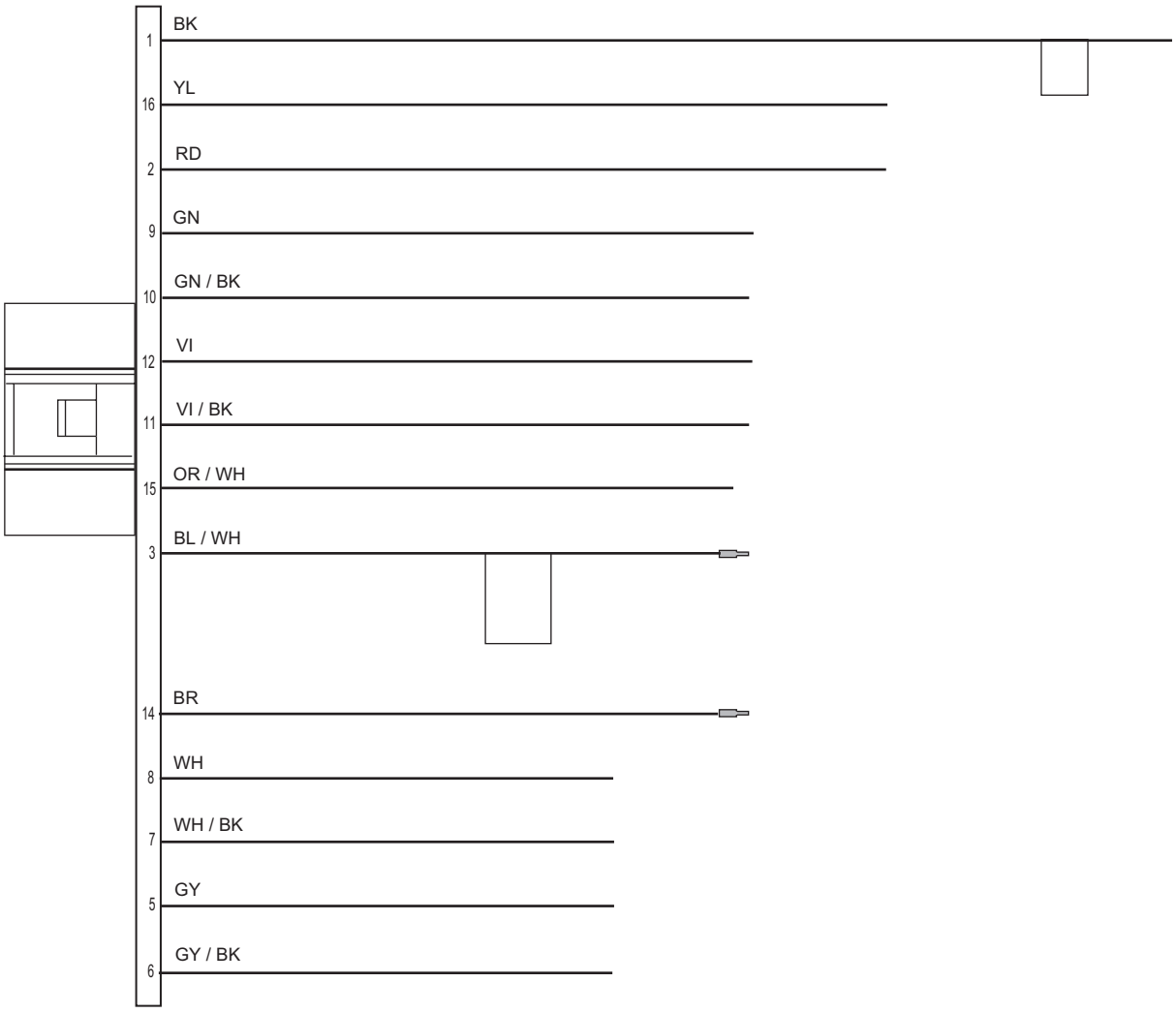
WH	White	GN	Green
BK	Black	VI	Violet
GY	Gray	LB	Light Blue
BL	Blue	YL	Yellow
RD	Red	BR	Brown
		OR	Orange



5.1.2 For KD-BTP50, KD-R520



BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	BR	Brown
WH	White	OR	Orange
GY	Gray	YL	Yellow

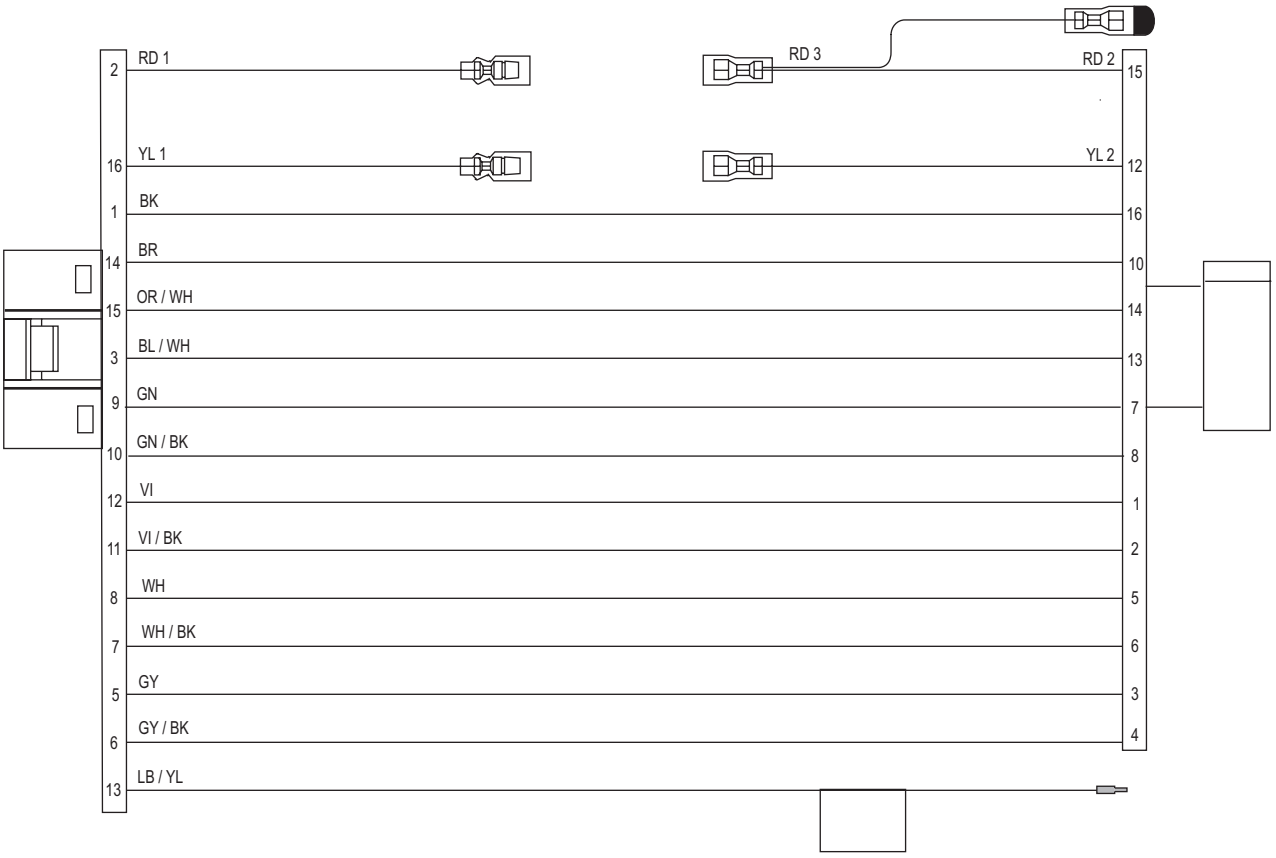


5.1.3 For KD-R521

WH	White	GN	Green
BK	Black	VI	Violet
GY	Gray	LB	Light Blue
BL	Blue	YL	Yellow
RD	Red	BR	Brown
		OR	Orange

8	WH	GN	9
7	WH/BK	GN/BK	10
6	GY/BK	VI/BK	11
5	GY	VI	12
4	NC	LB/YL	13
3	BL/WH	BR	14
2	RD1	OR/WH	15
1	BK	YL1	16

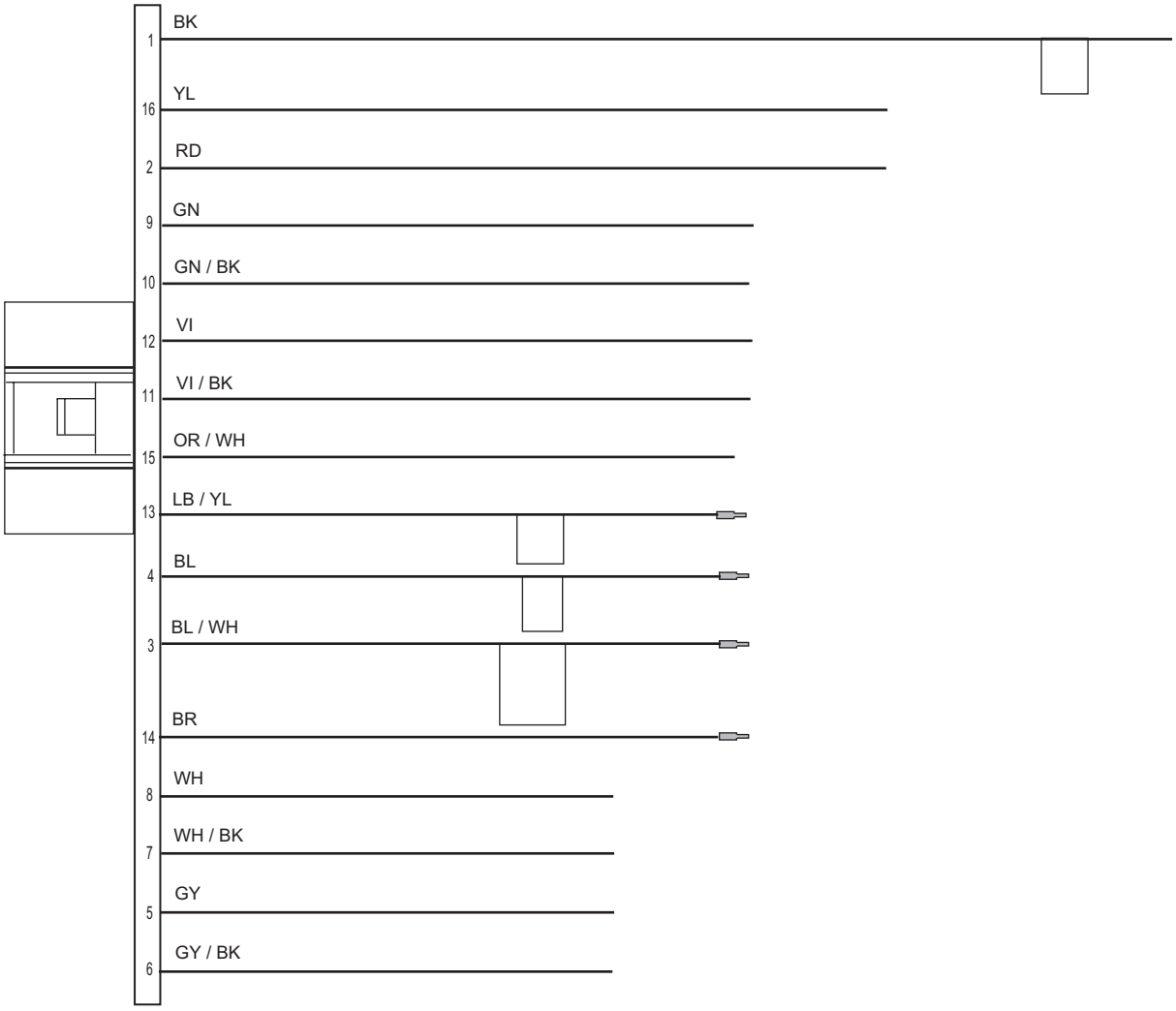
1	VI	2	VI/BK	9	NC	10	BR
3	GY	4	GY/BK	11	NC	12	YL2
5	WH	6	WH/BK	13	BL/WH	14	OR/WH
7	GN	8	GN/BK	15	RD2	16	BK



5.1.4 For KD-R524, KD-BTP52, KD-R525, KD-R526

8	WH	GN	9
7	WH/BK	GN/BK	10
6	GY/BK	VI/BK	11
5	GY	VI	12
4	BL	LB/YL	13
3	BL/WH	BR	14
2	RD	OR/WH	15
1	BK	YL	16

WH	White	GN	Green
BK	Black	VI	Violet
GY	Gray	LB	Light Blue
BL	Blue	YL	Yellow
RD	Red	BR	Brown
		OR	Orange



JVC

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Mobile Entertainment Division 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525, Japan

(No.MA479<Rev.002>)

Printed in Japan
VSE

JVC

SCHEMATIC DIAGRAMS

CD RECEIVER

KD-A525J
KD-BTP50J
KD-BTP52U
KD-R520J
KD-R521E
KD-R521EU
KD-R521EY
KD-R524UI
KD-R525U
KD-R525UH
KD-R525UN
KD-R526U
KD-R526UH
KD-R526UN
KD-R526UT
KD-R528J

■ 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

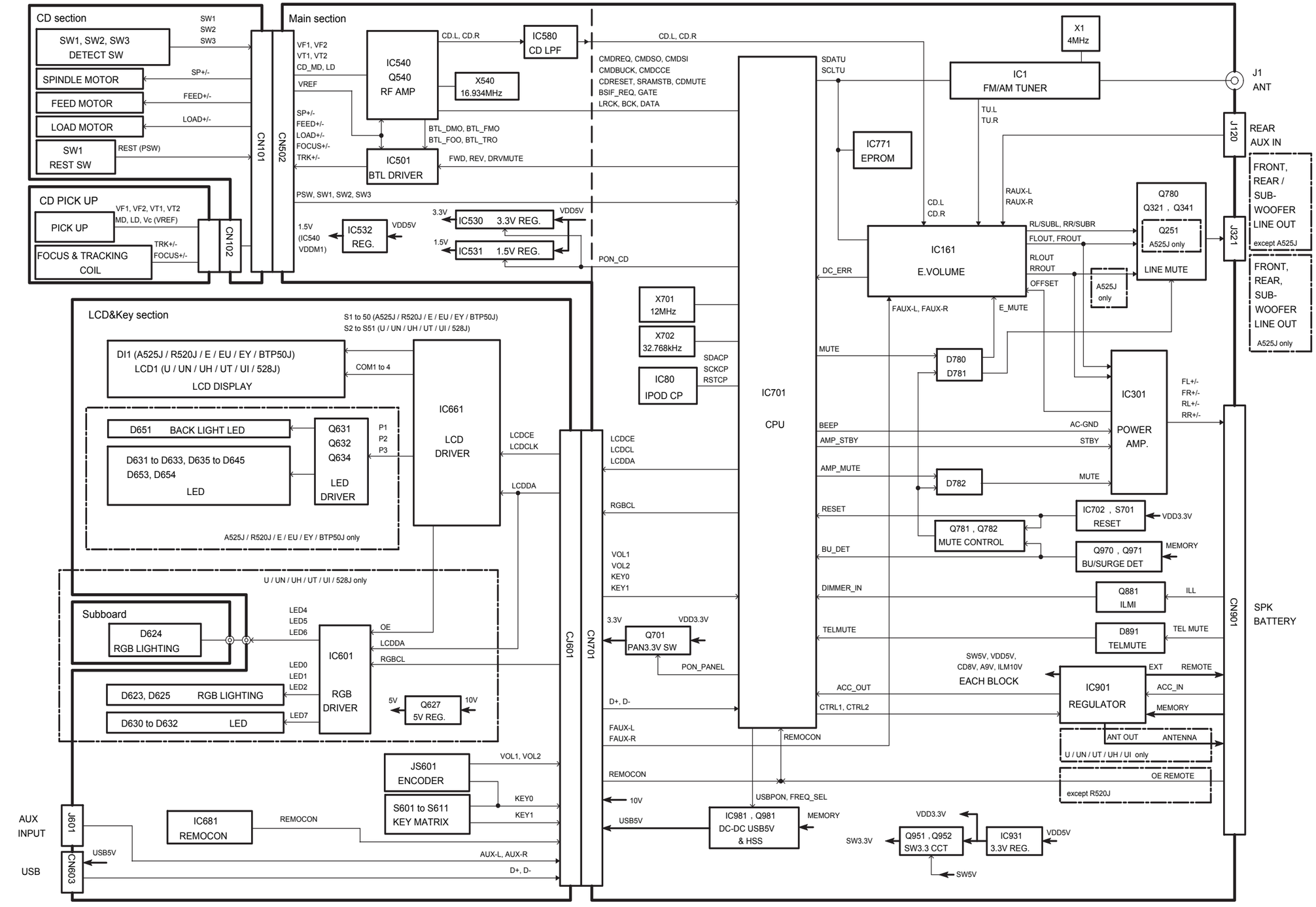
Certain parts of the power circuits and the GNDs differ according to the models. Care must be taken for the following points as the differences are indicated separately in the LIVE GND (⏚) and the ISOLATED (NEUTRAL) GND (⊥).

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

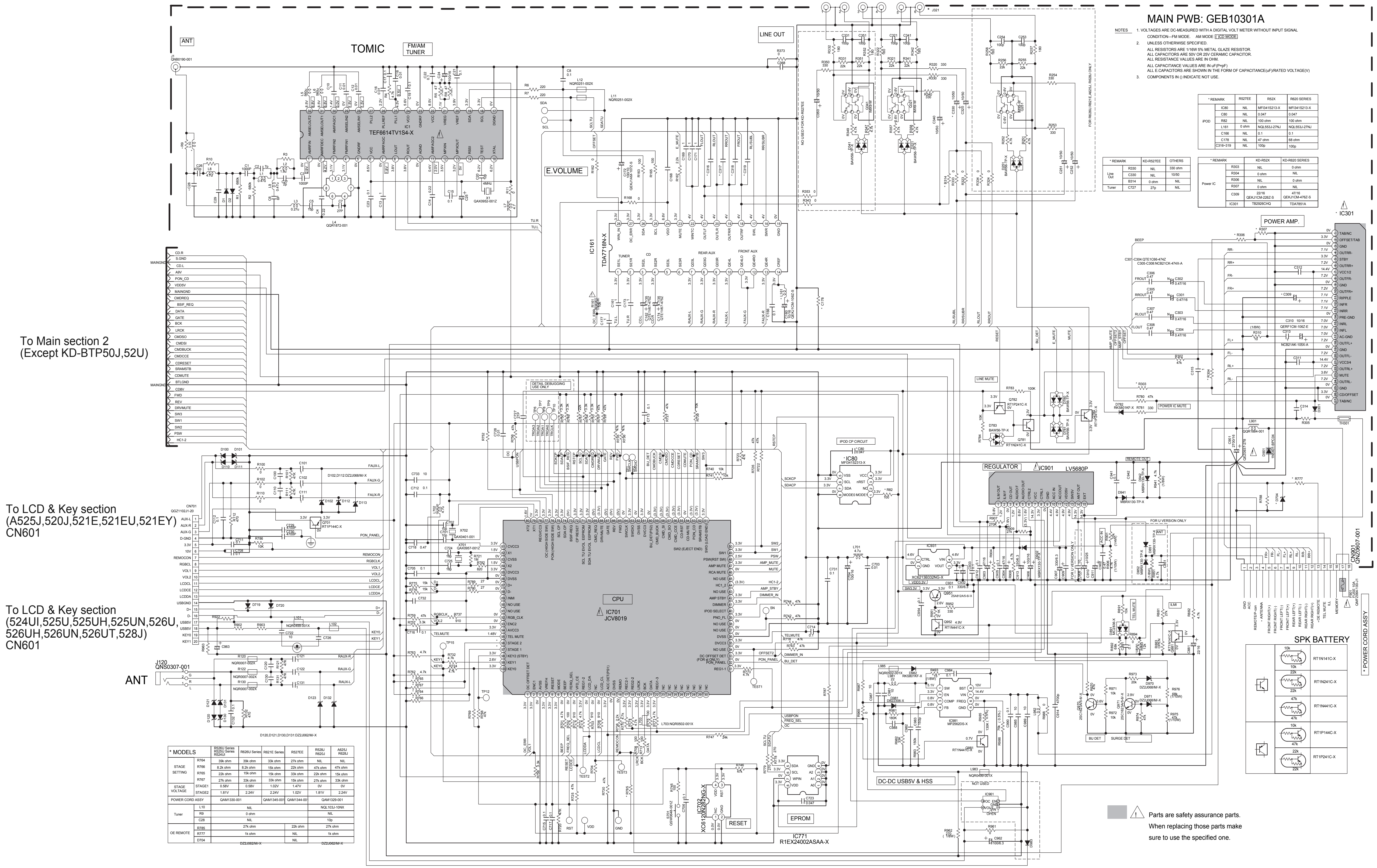
DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

Block diagram



<Main section 1 (Except KD-BTP50J,52U)>

* REMARK	MODELS	J321	1	2	3	4	5	6
3 pairs	R626U,R621E,A625J,R628J	QNN0866-001	Rear-L	Front-L	Sub-L	Rear-R	Front-R	Sub-R
2 pairs	R526U,R525U,R524UI,R528J,R620J	QNN0868-001	Rear-L/Sub-L	Front-L	-	Rear-R/Sub-R	Front-R	-
1 pair	R527EE	QNN0864-001	-	-	-	Rear-R/Sub-R	Rear-L/Sub-L	-



MAIN PWB: GEB10301A

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.

* REMARK		R527EE	R52X	R620 SERIES
iPOD	IC80	NIL	MFI341S213-X	MFI341S213-X
	C80	NIL	0.047	0.047
	R82	NIL	100 ohm	100 ohm
	L161	0 ohm	NQL553J-27NJ	NQL553J-27NJ
	C166	NIL	0.1	0.1
	C178	NIL	47 ohm	68 ohm
	C316~319	NIL	100p	100p

* REMARK		KD-R527EE	OTHERS
Line Out	R330	NIL	330 ohm
	C330	NIL	10/50
	B314	0 ohm	NIL
Tuner	C727	27p	NIL

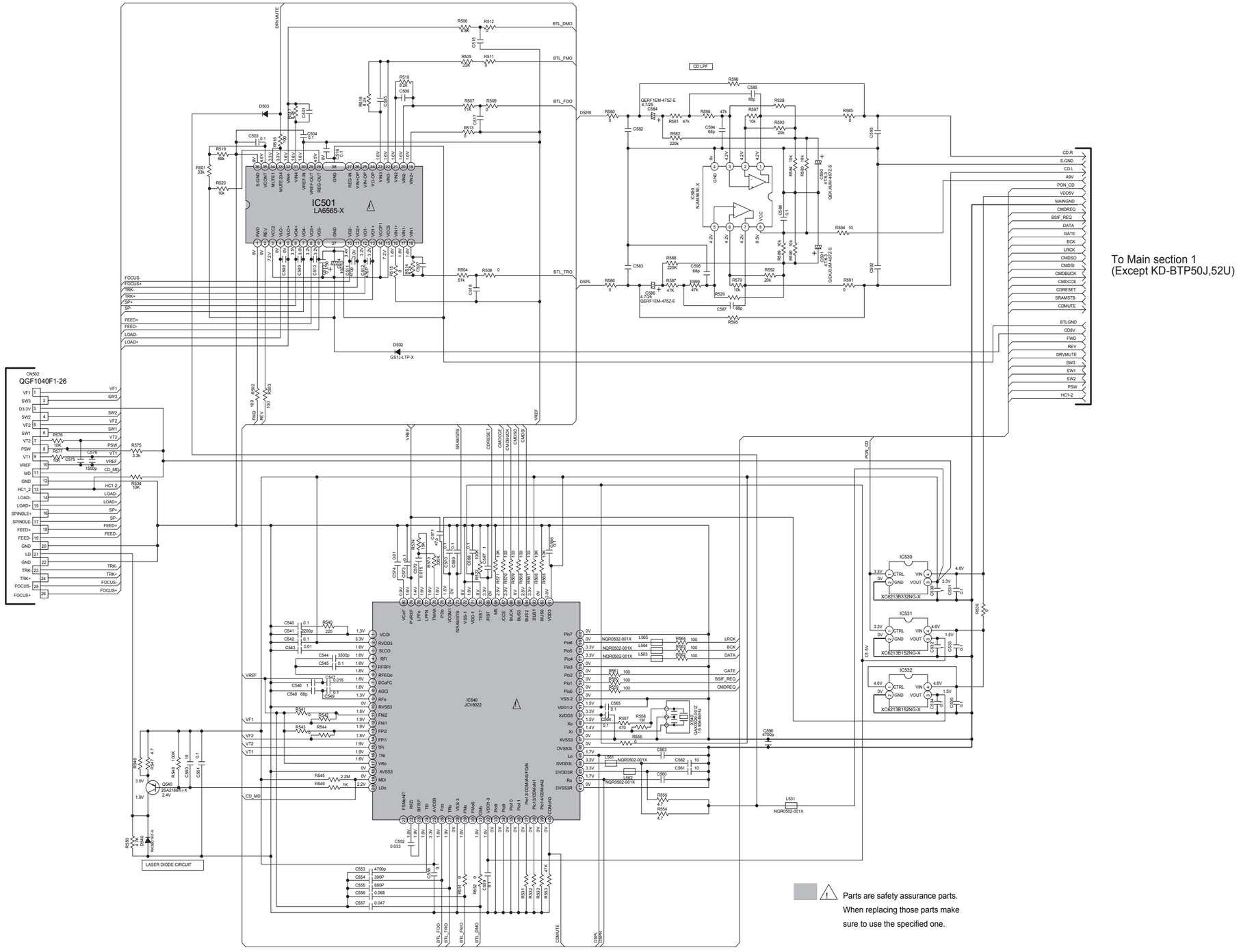
* REMARK		KD-R52X	KD-R620 SERIES
Power IC	R303	NIL	0 ohm
	R304	0 ohm	NIL
	R306	NIL	0 ohm
	R307	0 ohm	NIL
	C309	22/16 QEKJ1CM-226Z-S	47/16 QEKJ1CM-476Z-S
	IC301	TB2926CHQ	TDA7851A

* MODELS		R526U Series R525U Series R524UI	R626U Series	R621E Series	R527EE	R528J R620J	A625J R628J
STAGE SETTING	R764	39k ohm	39k ohm	33k ohm	27k ohm	NIL	NIL
	R766	8.2k ohm	8.2k ohm	15k ohm	22k ohm	47k ohm	47k ohm
	R765	22k ohm	15k ohm	15k ohm	33k ohm	22k ohm	15k ohm
	R767	27k ohm	33k ohm	33k ohm	15k ohm	27k ohm	33k ohm
STAGE VOLTAGE	STAGE1	0.58V	0.58V	1.02V	1.47V	0V	0V
	STAGE2	1.81V	2.24V	2.24V	1.02V	1.81V	2.24V
POWER CORD ASSY		QAM1330-001		QAM1345-001	QAM1344-001	QAM1329-001	
Tuner	L10	NIL				NQL103J-10NX	
	R9	0 ohm				NIL	
	C28	NIL				10p	
OE REMOTE	R785	27k ohm			22k ohm	27k ohm	
	R777	1k ohm			NIL	1k ohm	
	D704	DZ2J062/M/-X			NIL	DZ2J062/M/-X	

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

<Main section 2 (Except KD-BTP50J,52U)>

MAIN PWB: GEB10301A



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

<Main section 1 (KD-BTP50J,52U)>

* REMARK	MODELS	J521	1	2	3	4	5	6
3 pairs	R626U,R621E,A625J,R628J	QNN0666-001	Rear-L	Front-L	Sub-L	Rear-R	Front-R	Sub-R
2 pairs	R626U,R625X,R624X,R621E,R624J,R623J,R622J,R620X	QNN0668-001	Rear-L/Sub-L	Front-L	-	Rear-R/Sub-R	Front-R	-
1 pair	RS27EE	QNN0804-001	-	-	-	Rear-R/Sub-R	Rear-L/Sub-L	-

MAIN PWB: GEB10301A

NOTES:
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION---FM MODE. AM MODE [CNT 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(PmoF)
   ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
3. COMPONENTS IN ( ) INDICATE NOT USE.

* REMARK	RS27EE	R52X (KT52J Series	R620 SERIES
IPOD C80	NIL	MF34152I3-X	MF34152I3-X
IPOD R62	NIL	100 ohm	100 ohm
IPOD L161	0 ohm	NQL553J-27NJ	NQL553J-27NJ
IPOD C166	NIL	0.1	0.1
IPOD C178	NIL	47 ohm	68 ohm
IPOD C319~319	NIL	100p	100p

* REMARK	KD-RS27EE	OTHERS
Line Out R330	NIL	330 ohm
Line Out C330	NIL	10/50
Line Out E314	0 ohm	NIL
Tuner C727	27p	NIL

* REMARK	RS2XBTP52J Series	KD-R620 SERIES
Power IC R303	NIL	0 ohm
Power IC R304	0 ohm	NIL
Power IC R306	NIL	0 ohm
Power IC R307	0 ohm	NIL
Power IC C309	22/16 QEK(1CM-226Z-S	47/16 QEK(1CM-476Z-S
Power IC IC301	TB2926CHQ	TDA7851A

IC301

To Main section 2
(KD-BTP50J,52U)

To LCD & Key section
(A525J,520J,521E,521EU,521EY)
CN601

ANT

J120
QNS0307-001

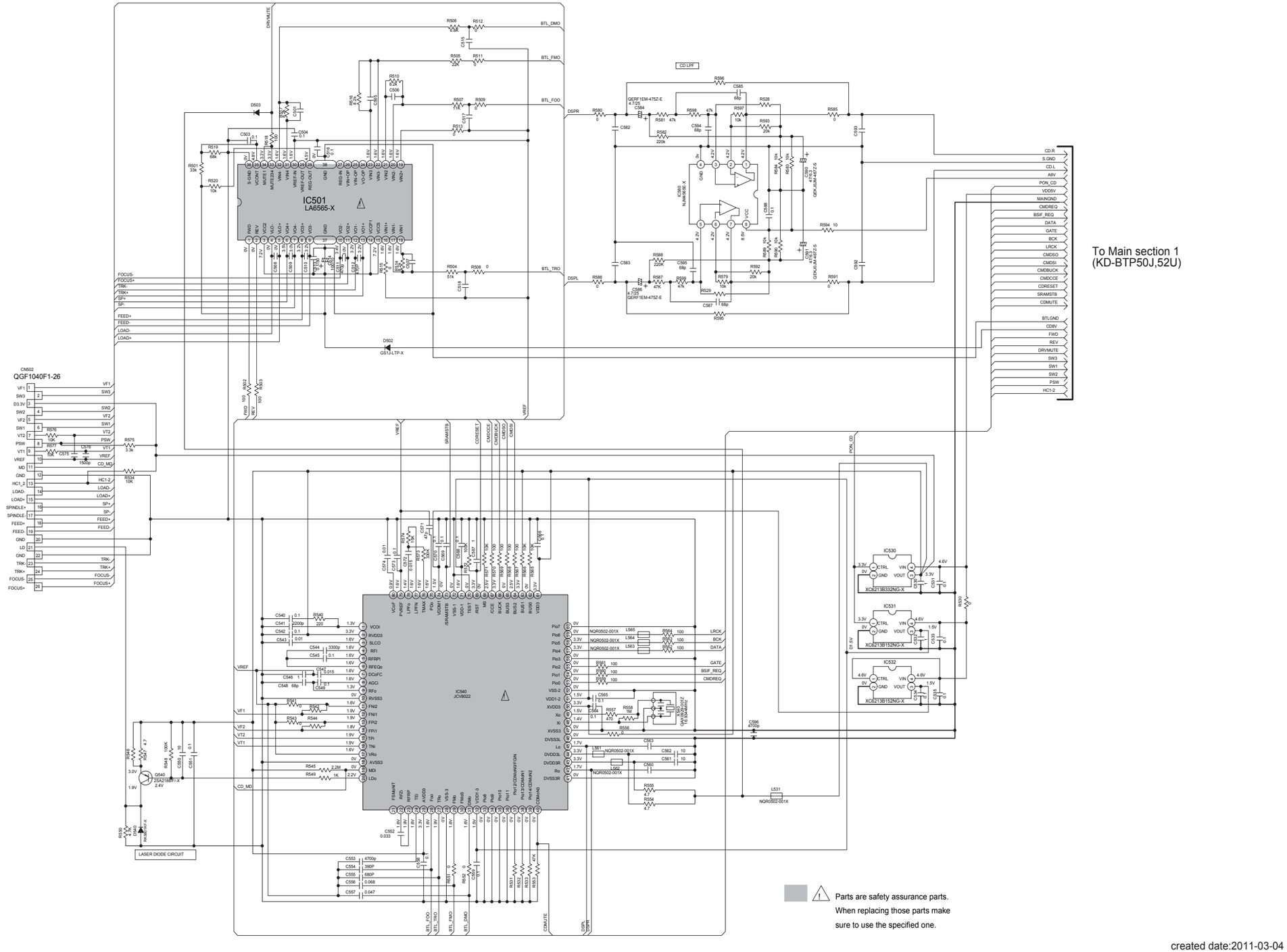
* MODELS	R626U Series R625X Series KT52J Series R624J	R621E Series	RS27EE	R628J R623J	A625J R628J
STAGE SETTING R764	30k ohm	33k ohm	33k ohm	27k ohm	NIL	NIL
STAGE SETTING R766	8.2k ohm	8.2k ohm	15k ohm	22k ohm	47k ohm	47k ohm
STAGE SETTING R765	22k ohm	15k ohm	15k ohm	33k ohm	22k ohm	15k ohm
STAGE SETTING R767	27k ohm	33k ohm	33k ohm	15k ohm	27k ohm	33k ohm
STAGE VOLTAGE STAGE1	0.58V	0.58V	1.02V	1.47V	0V	0V
STAGE VOLTAGE STAGE2	1.87V	2.24V	2.24V	1.02V	1.87V	2.24V
POWER CORD ASSY	QAM1330-001		QAM1345-001	QAM1344-001	QAM1329-001	
Tuner L10	NIL				NQL153J-10NK	
Tuner R8	0 ohm				NIL	
Tuner C28	NIL				10p	
OE REMOTE R785	27k ohm		22k ohm		27k ohm	
OE REMOTE R777	1k ohm		NIL		1k ohm	
OE REMOTE D704	DZ2J062M0L		NIL		DZ2J062M0L	

D120,D121,D130,D131:DZ2J062M0L

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

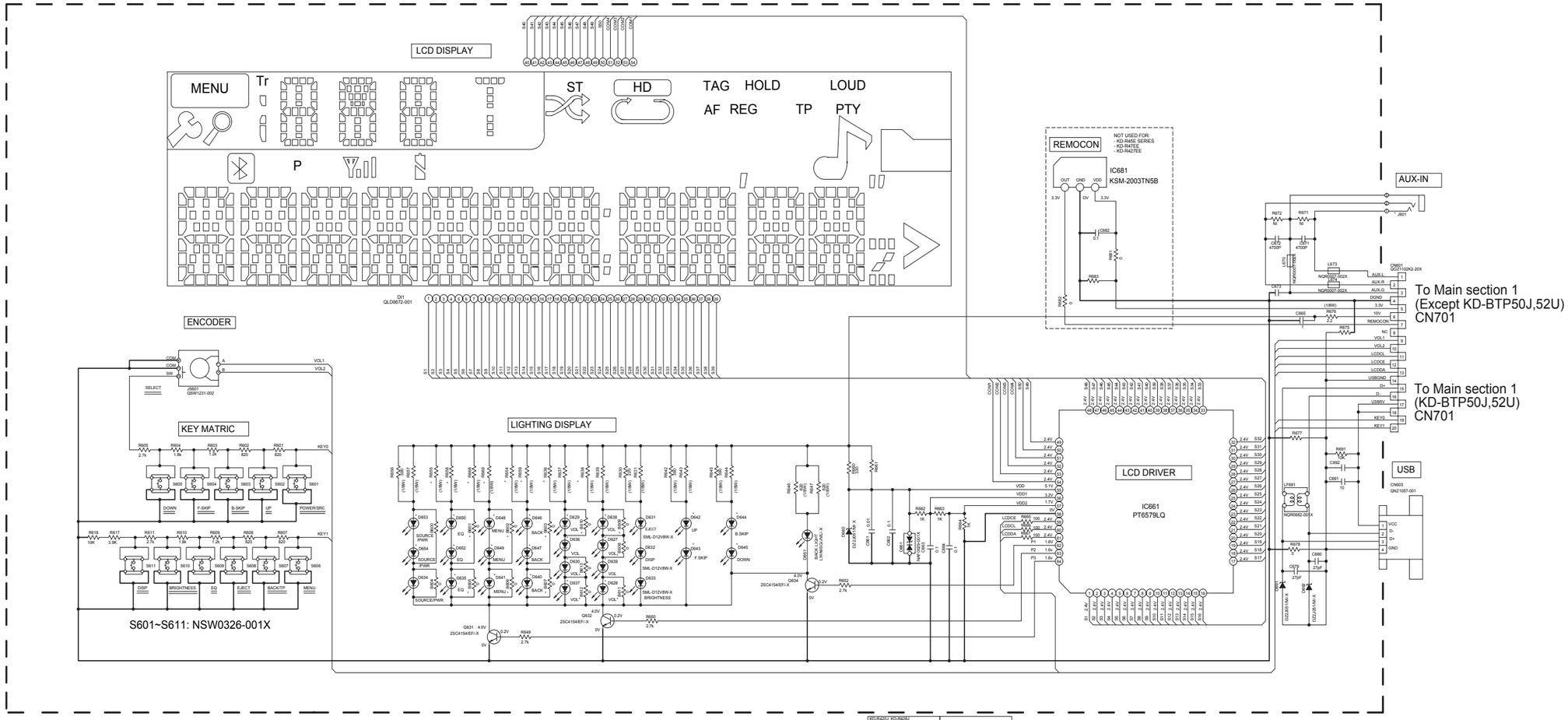
* POWER CORD ASSY

<Main section 2 (KD-BTP50J,52U)>



<LCD & Key section (A525J,520J,521E,521EU,521EY)>

SW PWB:GEB10304A



* REMARKS:

LED	D640,D641,D635	SML-D12V8W-X (RED)	NIL
	D636, D639		SML-D12P8W-X (GREEN)
	D637, D638		NIL
	D642 ~ D645		SML-D12P8W-X (GREEN)
	D627 ~ D630	NIL	
	D646 ~ D650,D652		
	D653,D654	SML-D12V8W-X (RED)	
	B601 ~ B603 B608,B610,B611,B613	0 Ohm	NIL
	B605 ~ B607 B609,B612	NIL	0 Ohm
LED BRIGHTNESS	R655/R568/R654	820	390
	R658/R569/R659	1.5K	NIL
	R636/R638	390	220

AUX JACK	J601	QNS0299-001	QNS0298-001

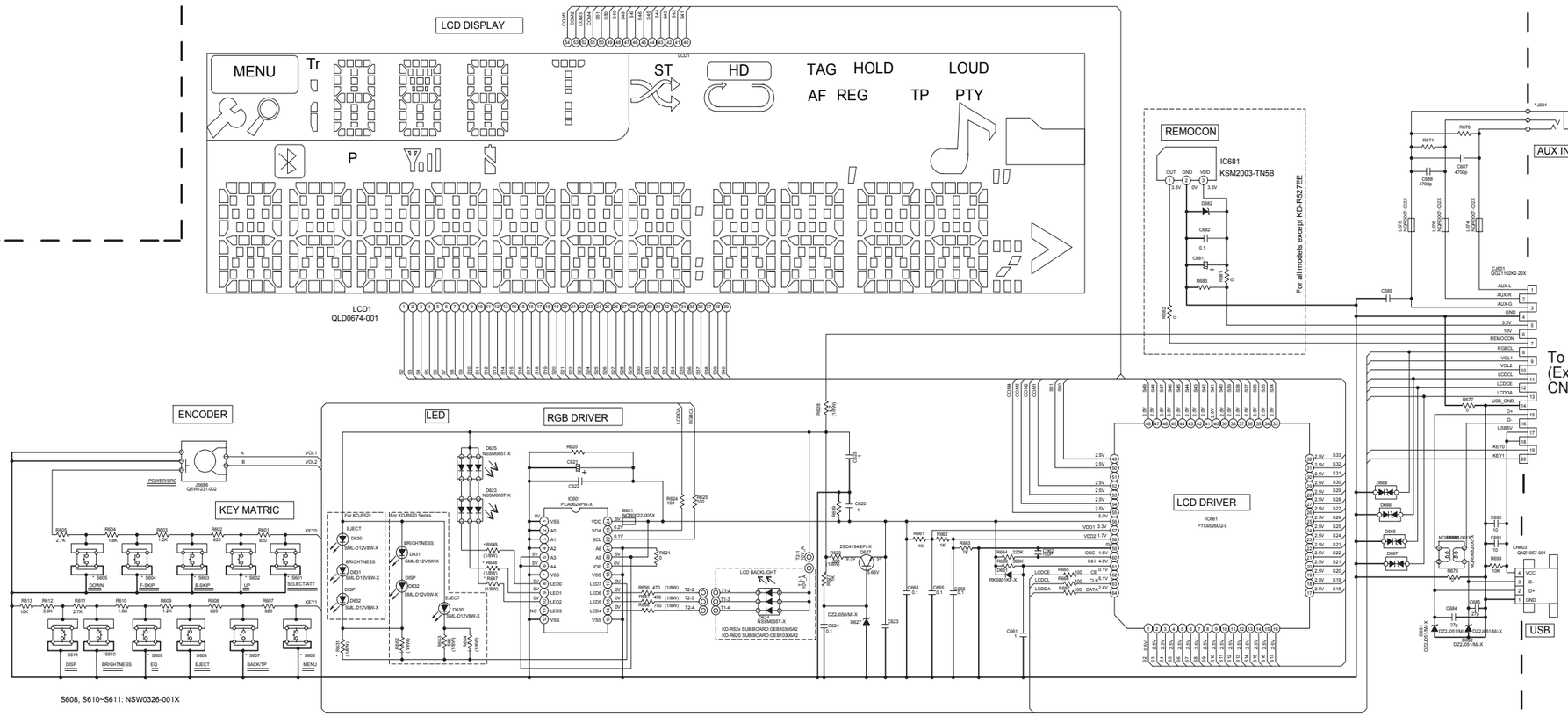
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL

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)
   T — TANTAL CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

<LCD & Key section (524UI,525U,525UH,525UN,526U,526UH,526UN,526UT,528J)>



KD-R620 Series SW PWB: GEB10306A1
Others SW PWB: GEB10305A1

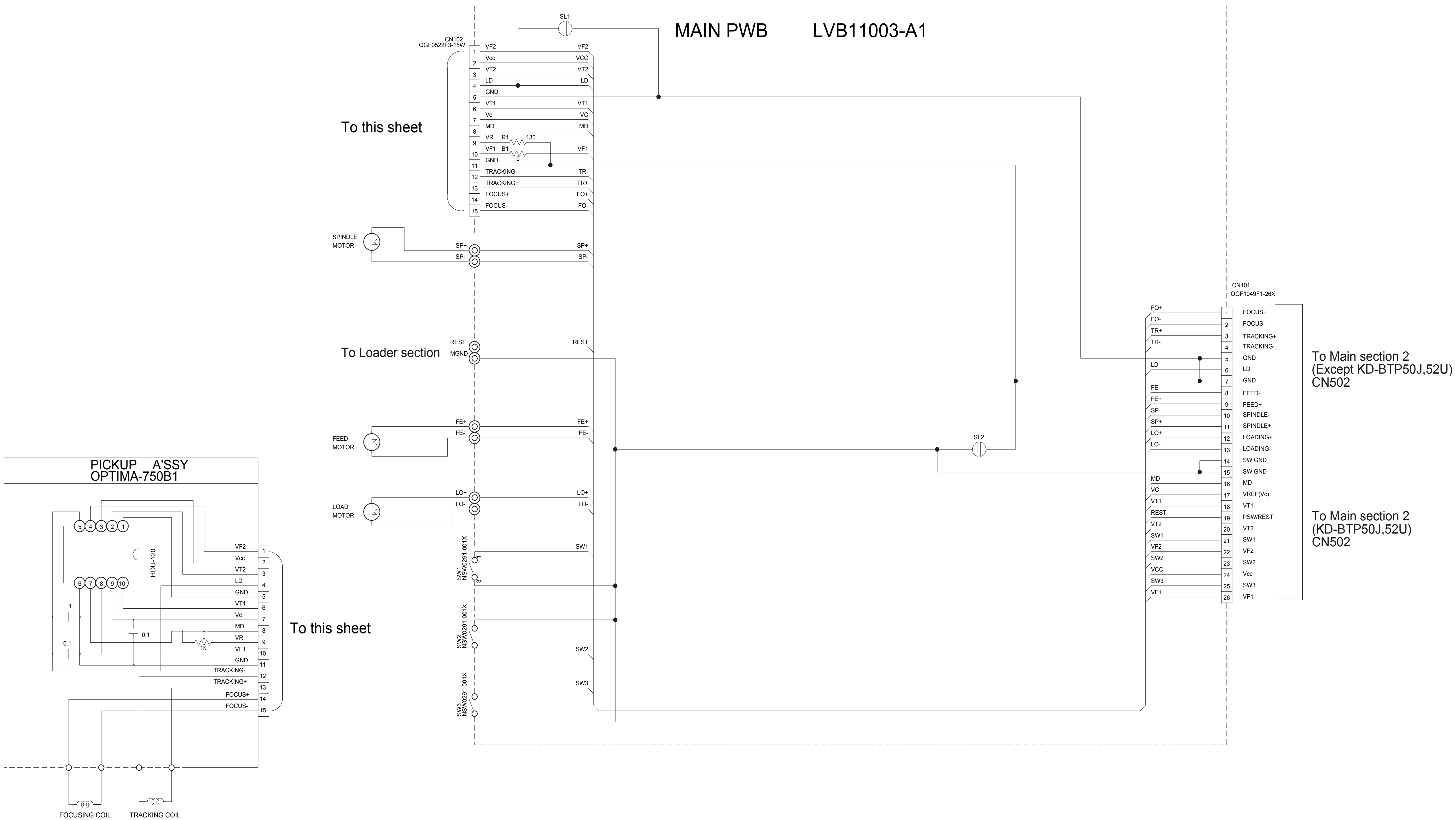
*MODEL		KD-R52x	KD-R620 Series
RGB BRIGHTNESS	R647, R648	470 ohm	270 ohm
	R649	820 ohm	560 ohm
LED BRIGHTNESS	R631	270 ohm	680 ohm
TAC SW	S601~S607,S609	NSW0326-001X	NSW0246-001X

*MODEL		KD-R527EE	Others
AUX JACK	J601	QNS0298-001	QNS0299-001

NOTES

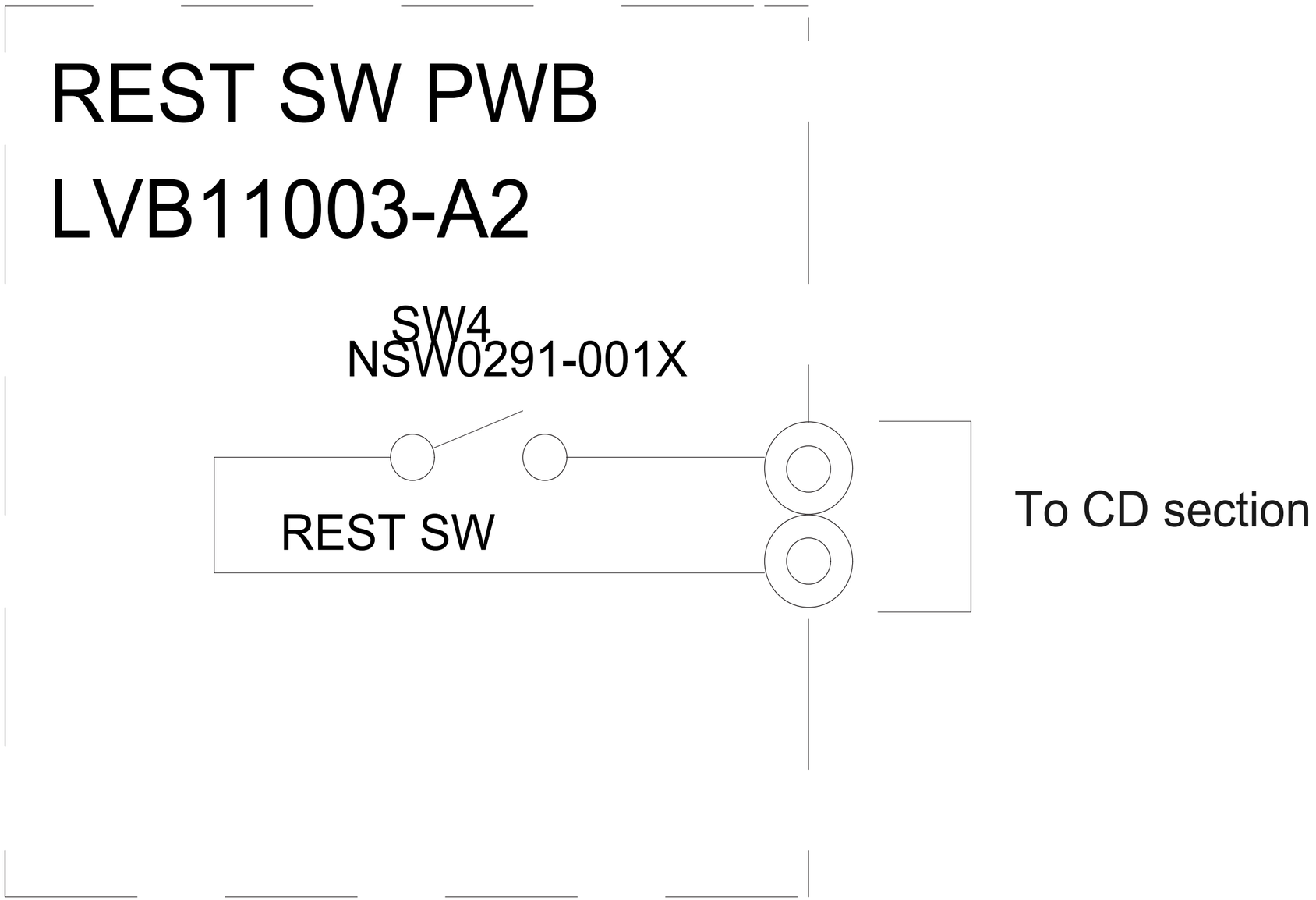
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W +5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS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

<CD section>



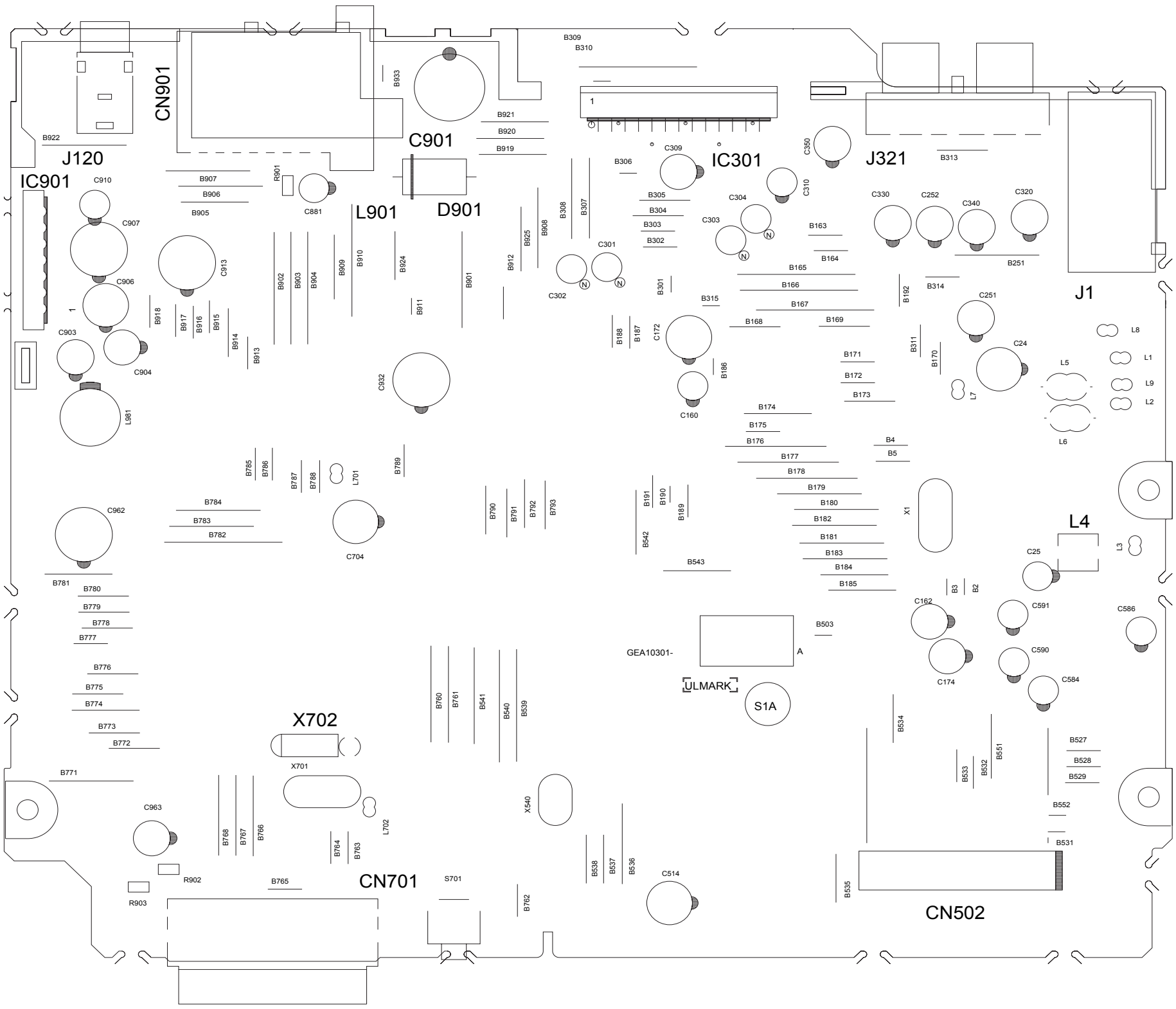
MAIN PWB LVB11003-A1
CN102
QGF0522F3-15W
To this sheet
SPINDLE MOTOR
To Loader section
FEED MOTOR
LOAD MOTOR
PICKUP A'SSY
OPTIMA-750B1
HDU-120
To this sheet
FOCUSING COIL
TRACKING COIL
CN101
QGF1049F1-26X
To Main section 2
(Except KD-BTP50J,52U)
CN502
To Main section 2
(KD-BTP50J,52U)
CN502

<Loader section>



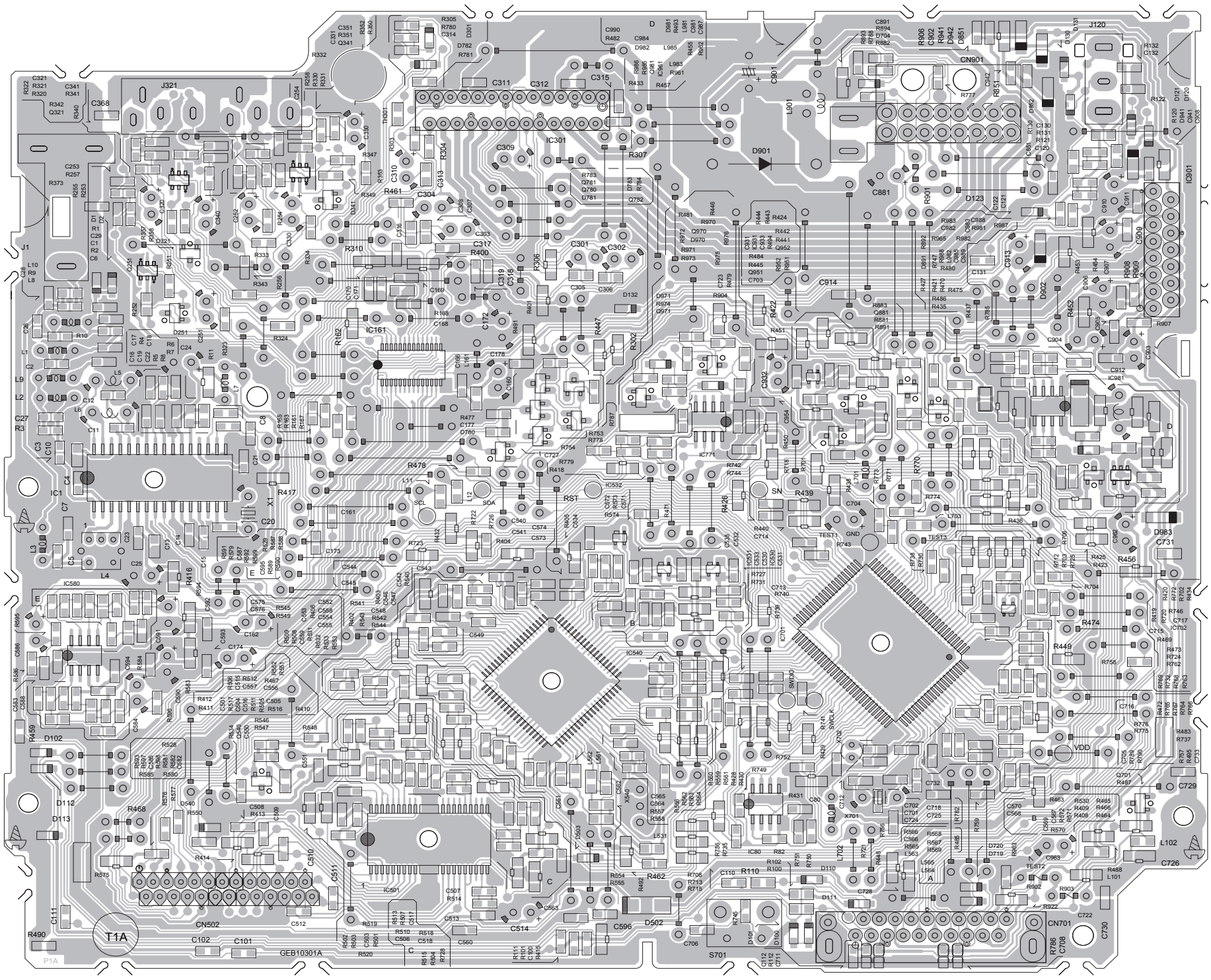
<Main board (Except KD-BTP50J,52U)>

(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))



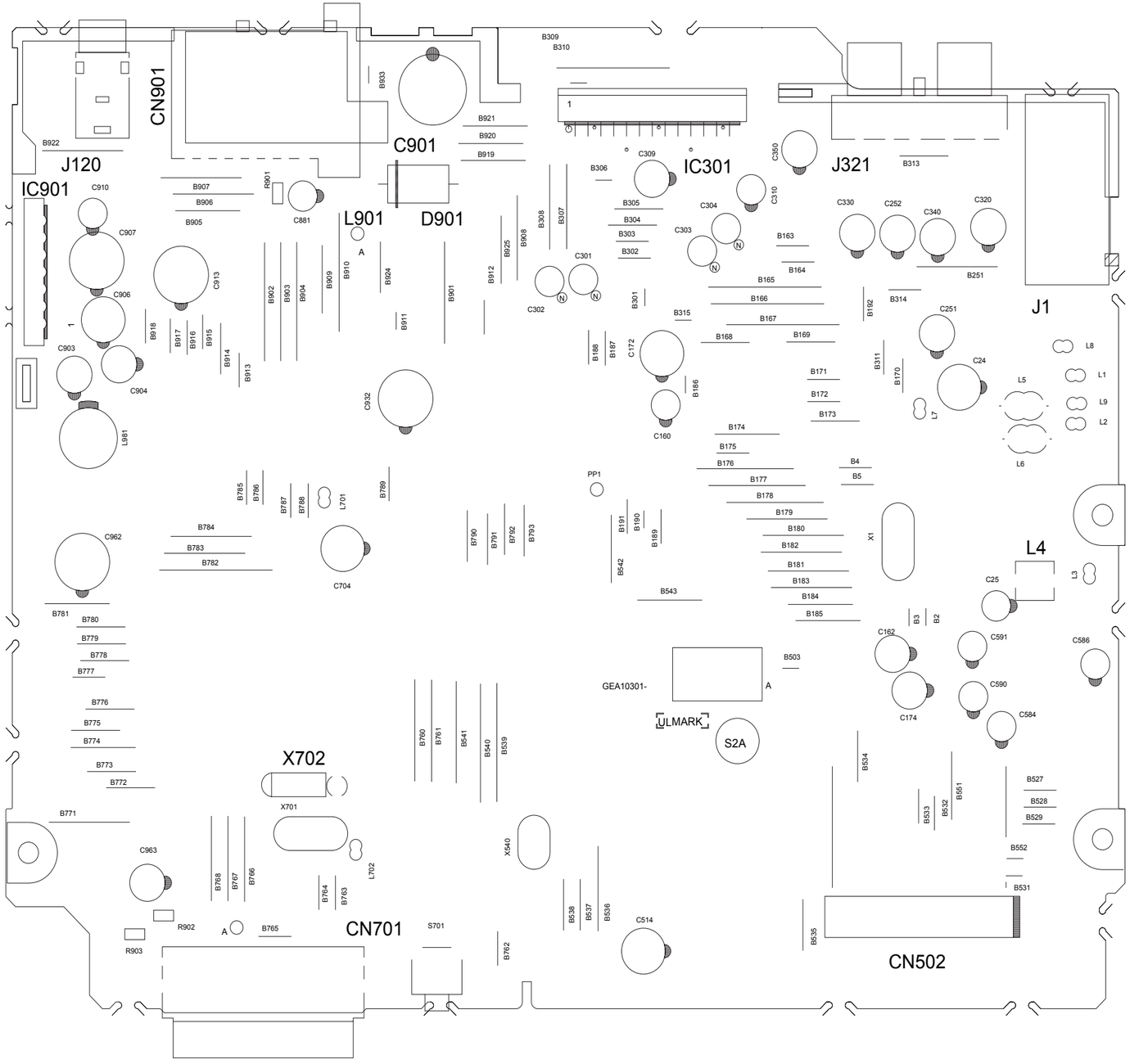
<Main board (Except KD-BTP50J,52U)>

(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))



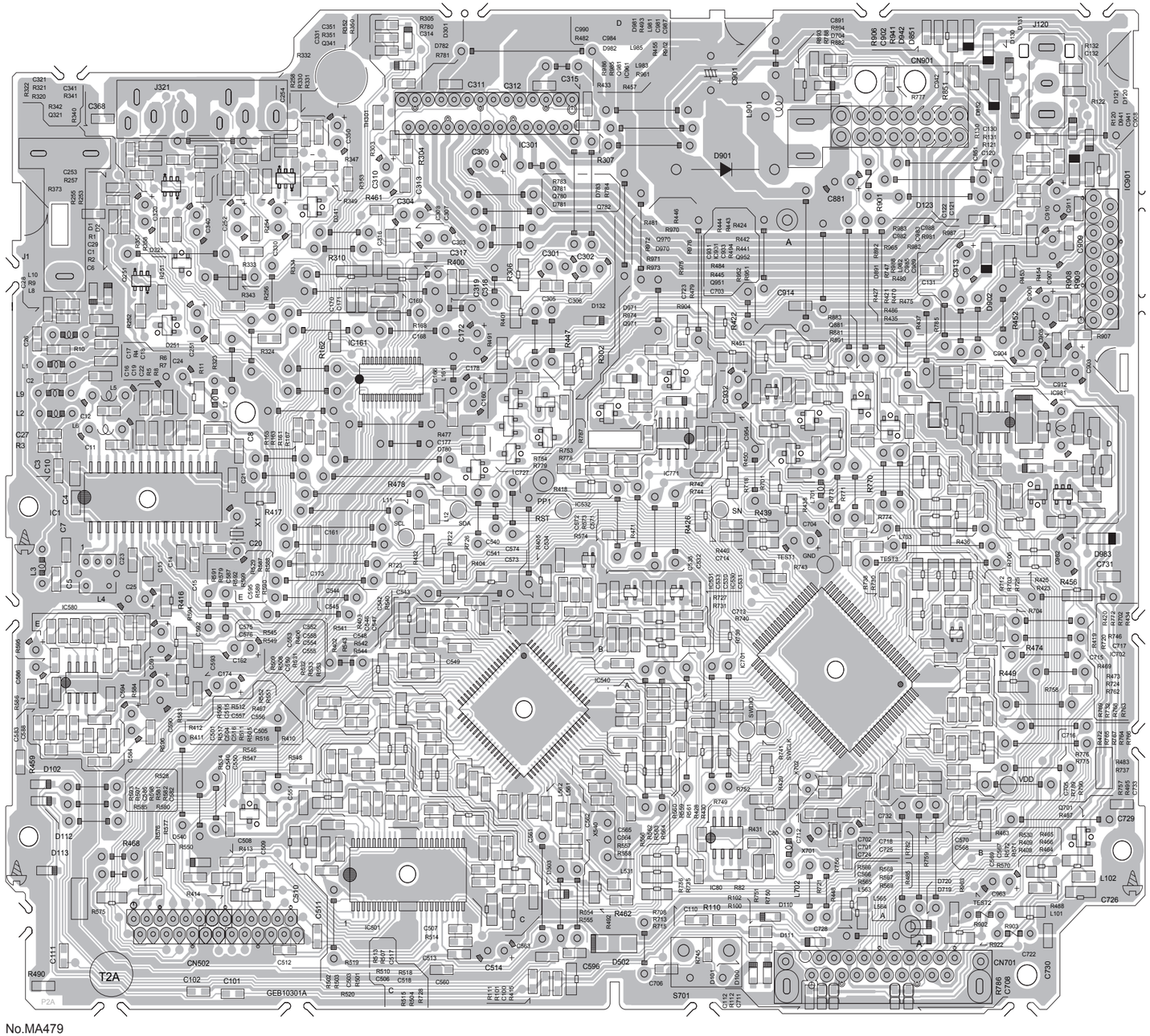
<Main board (KD-BTP50J,52U)>

(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))



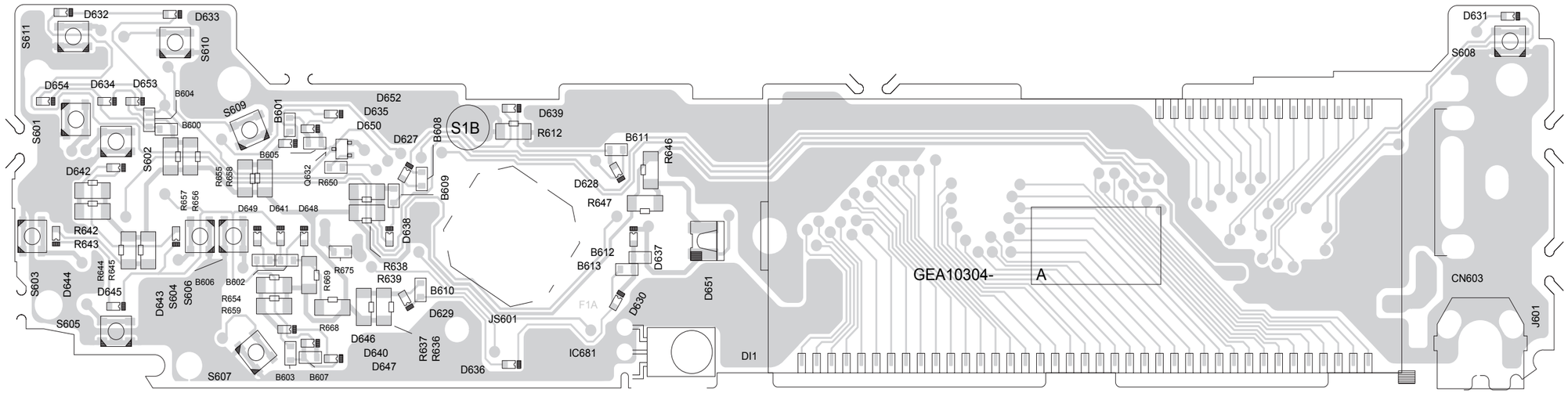
<Main board (KD-BTP50J,52U)>

(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))

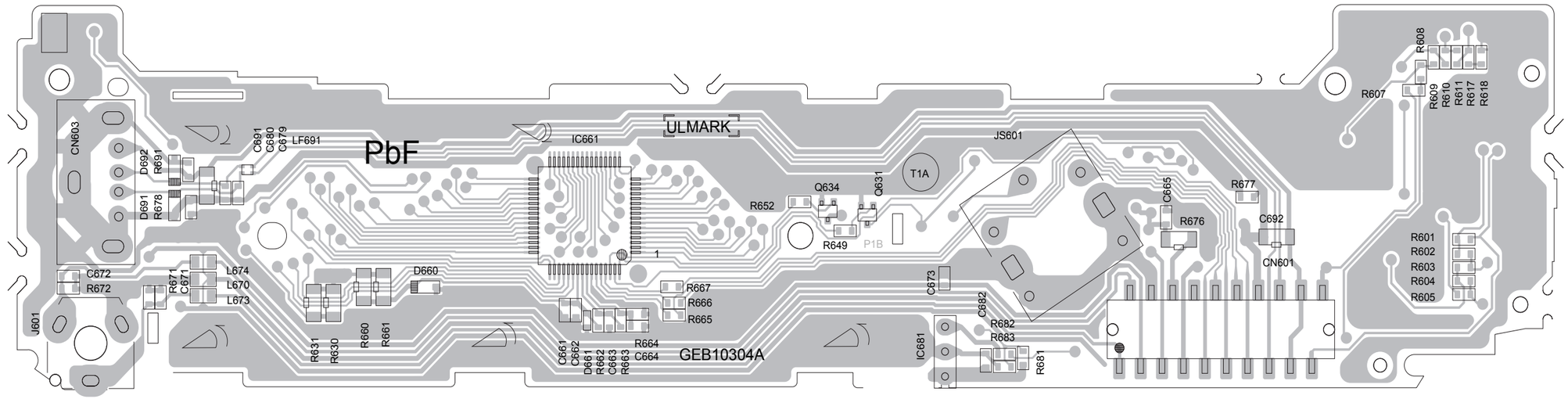


<Switch board (A525J,520J,521E,521EU,521EY)>

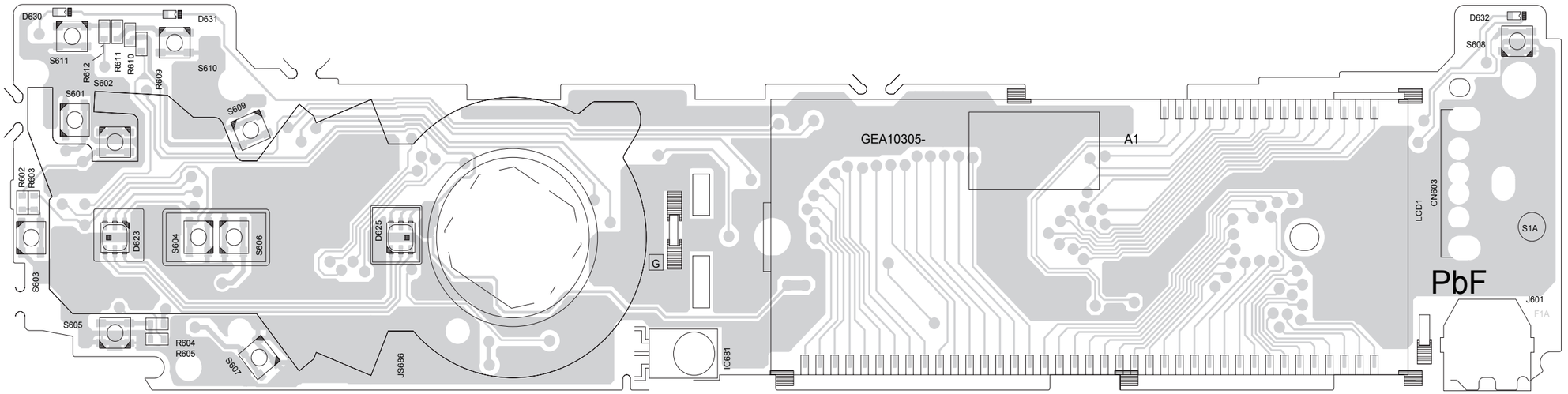
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



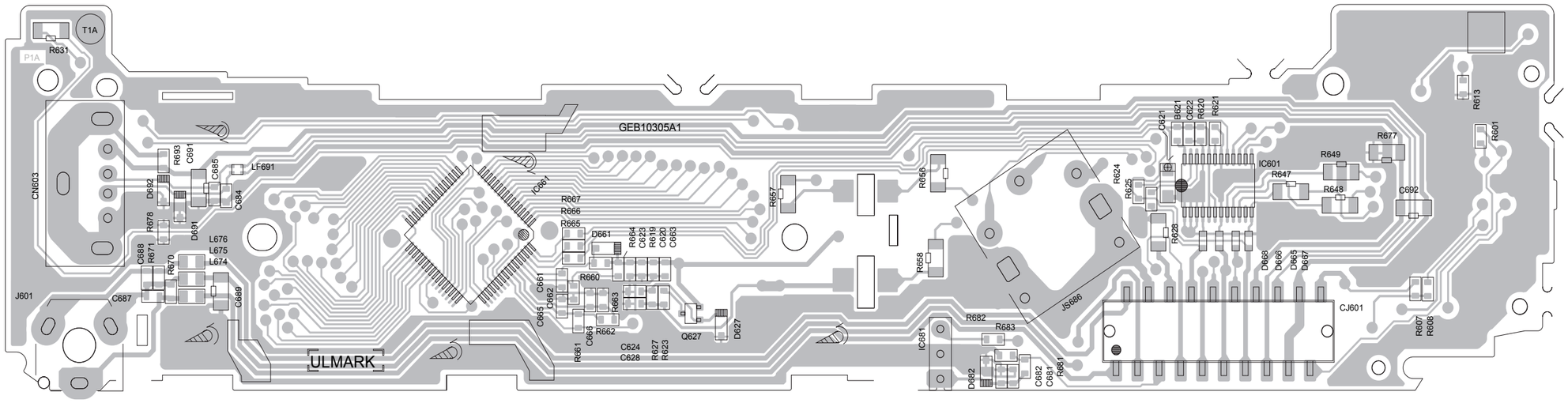
<Switch board (A525J,520J,521E,521EU,521EY)>
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



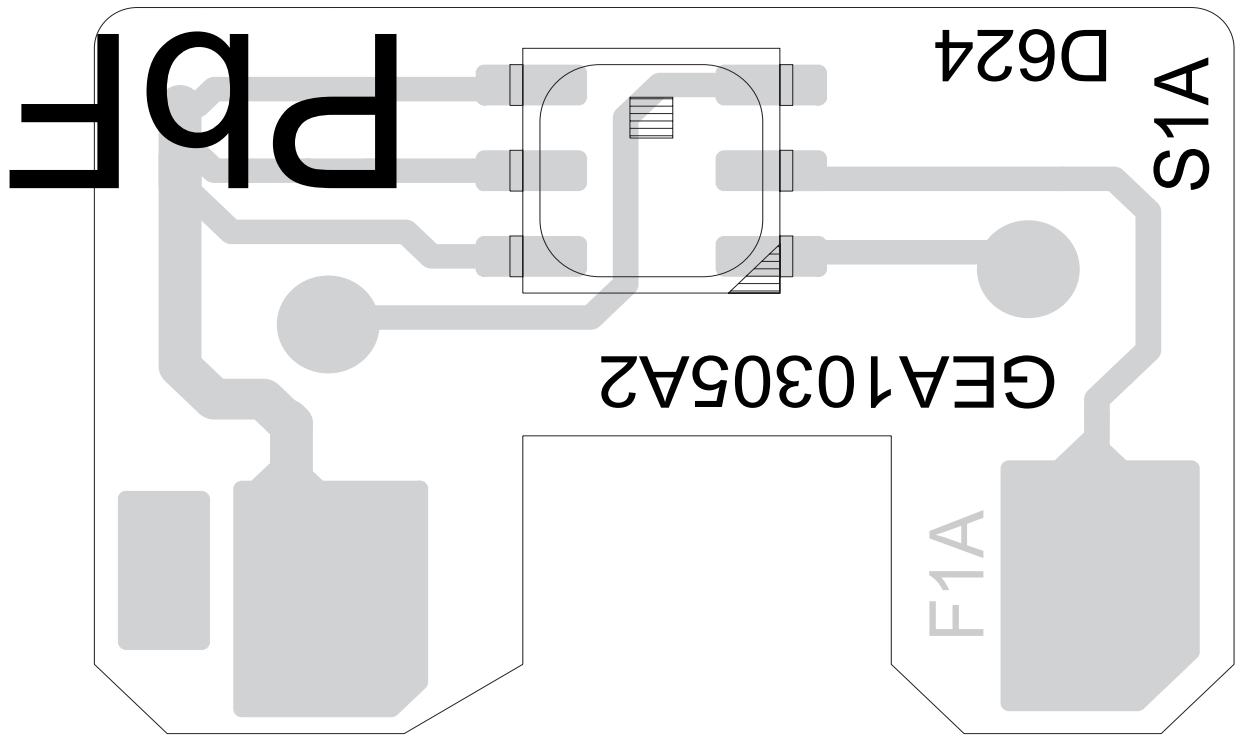
<Switch board (524UI,525U,525UH,525UN,526U,526UH,526UN,526UT,528J)>
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



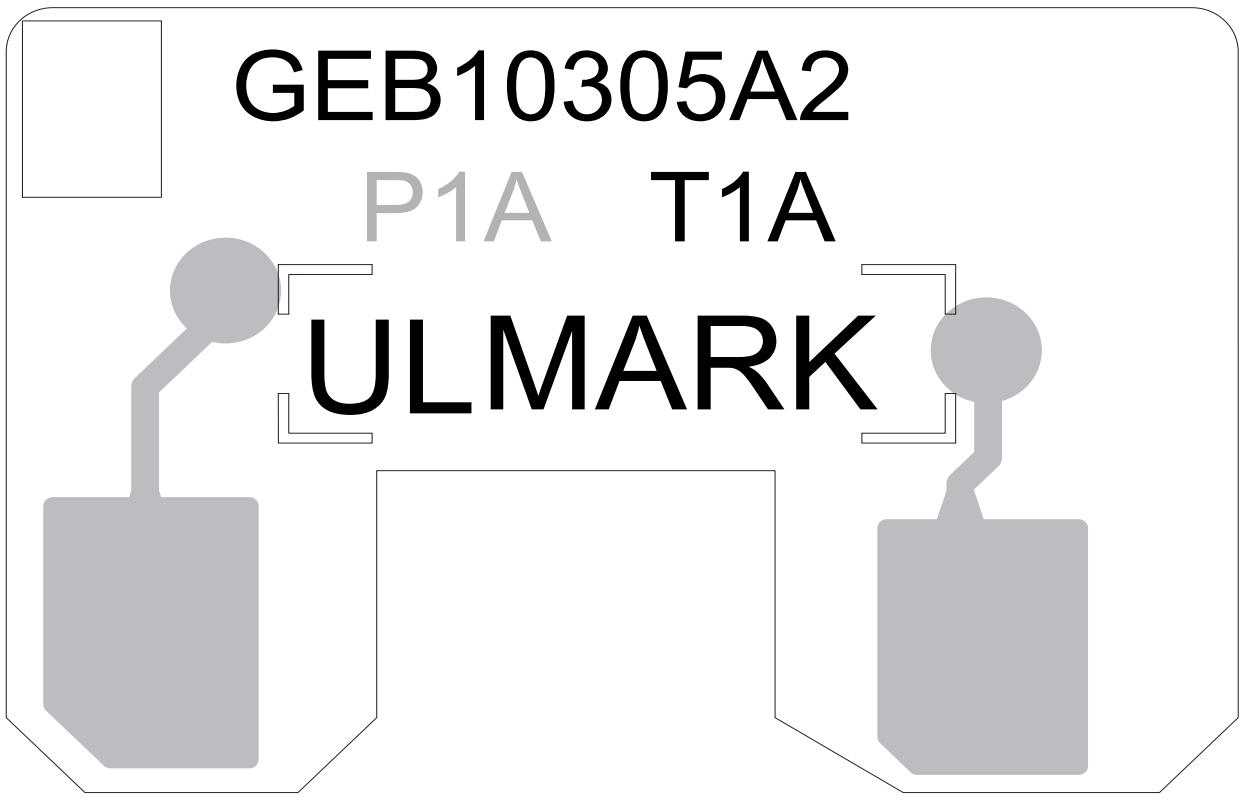
<Switch board (524UI,525U,525UH,525UN,526U,526UH,526UN,526UT,528J)>
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



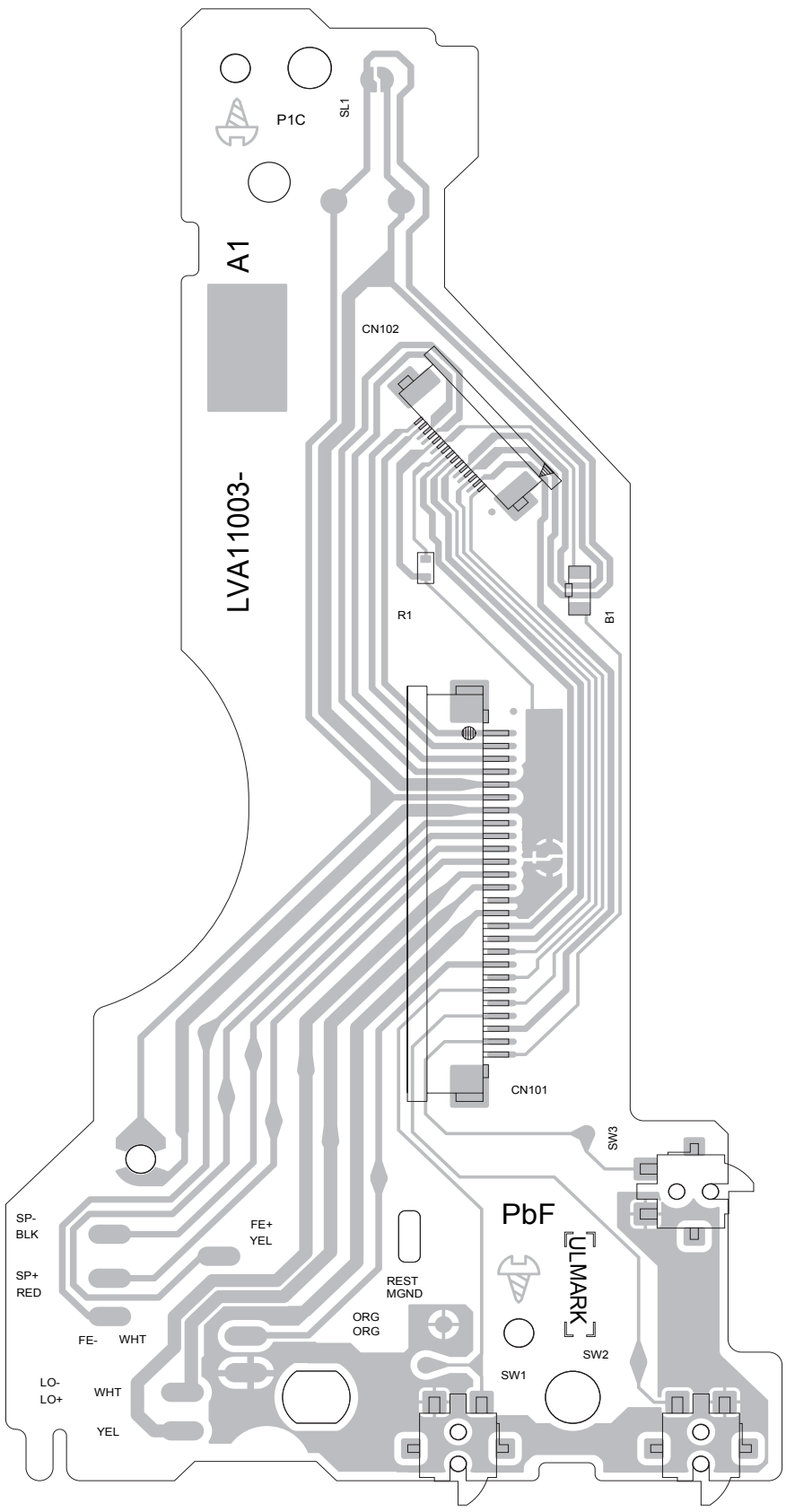
<Sub board (524UI,525U,525UH,525UN,526U,526UH,526UN,526UT,528J)>
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



<Sub board (524UI,525U,525UH,525UN,526U,526UH,526UN,526UT,528J)>
(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))



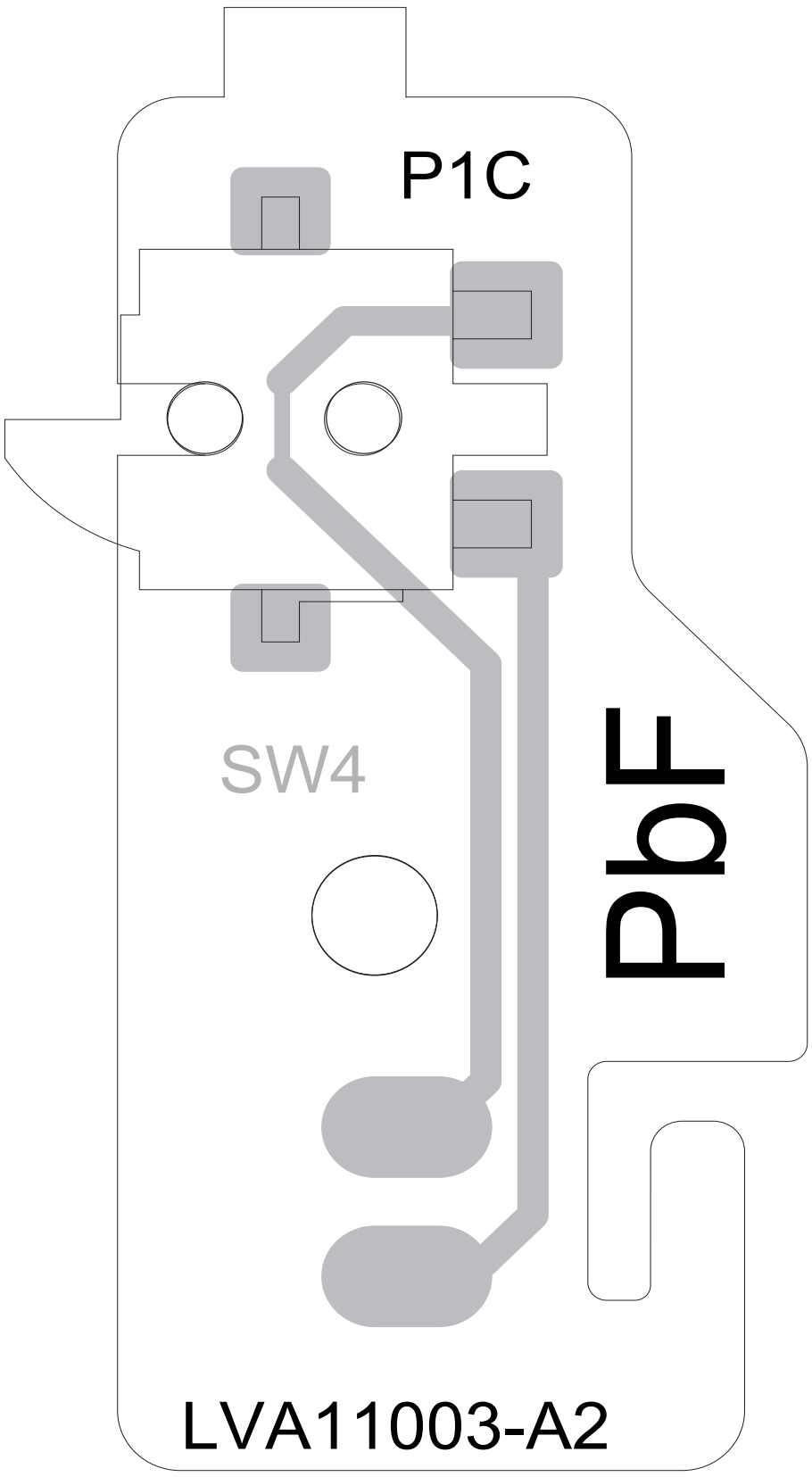
<Mecha control board>
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



No.MA479

created date:2011-03-04

<Rest switch board>
(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

REVISION INFORMATION

CD RECEIVER

KD-A525J, KD-BTP50J, KD-BTP52U, KD-R520J, KD-R521E, KD-R521EU, KD-R521EY, KD-R524UI, KD-R525U, KD-R525UH, KD-R525UN, KD-R526U, KD-R526UH, KD-R526UN, KD-R526UT, KD-R528J

■ OVERVIEW

Add KD-BTP50J, KD-BTP52U

■ DETAILS

COVER SECTION

Title	Line	No.MA479<Rev.001>	No.MA479<Rev.002>	Description
Revision		Rev.001	Rev.002	
Issue Date		2010/11	2011/02	
Model No.		KD-A525J, KD-R520J, KD-R521E, KD-R521EU, KD-R521EY, KD-R524UI, KD-R525U, KD-R525UH, KD-R525UN, KD-R526U, KD-R526UH, KD-R526UN, KD-R526UT, KD-R528J	KD-A525J, KD-BTP50J, KD-BTP52U, KD-R520J, KD-R521E, KD-R521EU, KD-R521EY, KD-R524UI, KD-R525U, KD-R525UH, KD-R525UN, KD-R526U, KD-R526UH, KD-R526UN, KD-R526UT, KD-R528J	
Cover Illustration		ILLUSTRATION(ma479_0001.png)	ILLUSTRATION(ma479_0001.png)	
Copyright		COPYRIGHT (C) 2010 Victor Company of Japan, Limited	COPYRIGHT (C) 2011 Victor Company of Japan, Limited	
SPECIFICATION	2	KD-A525, KD-R520, KD-R528	KD-A525, KD-BTP50, KD-R520, KD-R528	
	100	KD-R524, KD-R525, KD-R526	KD-BTP52, KD-R524, KD-R525, KD-R526	

SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

Title	Line	No.MA479<Rev.001>	No.MA479<Rev.002>	Description
2 SPECIFIC SERVICE INSTRUCTIONS	1	This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.	-	
2.1 KD-BTP50J and KD-BTP52U	T	-	2.1 KD-BTP50J and KD-BTP52U	
	1	-	The KD-BTP50J and the KD-BTP52U are packaged products of a CD RECEIVER and a BLUETOOTH ADAPTER.	
	3	-	Model CD RECEIVER BLUETOOTH ADAPTER	
	4	-	KD-BTP50J KD-R520 KS-BTA100	
	5	-	KD-BTP52U KD-R525 KS-BTA100	

SECTION 5 TROUBLESHOOTING

Title	Line	No.MA479<Rev.001>	No.MA479<Rev.002>	Description
5.1.2 For KD-BTP50, KD-R520	T	-	5.1.2 For KD-BTP50, KD-R520	
	1	-	ILLUSTRATION(QAM1326-001.png)	
5.1.3 For KD-R521	T	5.1.2 For KD-R520	5.1.3 For KD-R521	
	1	ILLUSTRATION(QAM1326-001.png)	ILLUSTRATION(QAM1345-001.png)	
5.1.4 For KD-R524, KD-BTP52, KD-R525, KD-R526	T	5.1.3 For KD-R521	5.1.4 For KD-R524, KD-BTP52, KD-R525, KD-R526	
	1	ILLUSTRATION(QAM1345-001.png)	ILLUSTRATION(QAM1330-001.png)	
-	T	5.1.4 For KD-R524,KD-R525,KD-R526	-	
	1	ILLUSTRATION(QAM1330-001.png)	-	

STANDARD SCHEMATIC DIAGRAMS

Schematic Diagram

Diagram Name	No.MA479<Rev.001>	No.MA479<Rev.002>	Description
Menu	Main section 1	Main section 1 (Except KD-BTP50J,52U)	
Menu	Main section 2	Main section 2 (Except KD-BTP50J,52U)	
Menu	-	Loader section ma479_s007.svgz	
Menu	-	Main section 1 (KD-BTP50J,52U) ma479_s008.svgz	
Menu	-	Main section 2 (KD-BTP50J,52U) ma479_s009.svgz	

Printed Circuit Board

Diagram Name	No.MA479<Rev.001>	No.MA479<Rev.002>	Description
Menu	Main board	Main board (Except KD-BTP50J,52U)	
Menu	-	Main board (KD-BTP50J,52U) ma479_p008.svgz	

Description of Major ICs

Diagram Name	No.MA479<Rev.001>	No.MA479<Rev.002>	Description
Menu	IC701: JES199C	IC701: JES219B	

PARTS LIST

MODEL No. LIST

Model No.	No.MA479<Rev.002>
KD-A525J	01
KD-BTP50J	02
KD-BTP52U	03
KD-R520J	04
KD-R521E	05
KD-R521EU	06
KD-R521EY	07
KD-R524UI	08
KD-R525U	09
KD-R525UH	0A
KD-R525UN	0B
KD-R526U	0C
KD-R526UH	0D
KD-R526UN	0E
KD-R526UT	0F
KD-R528J	10

General assembly [M1MM]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	M1MM	15		----------	GE10301-011A	FRONT PANEL	(Addition)	1	02
	M1MM	25		----------	GE34140-006A	MENU BUTTON	(Addition)	1	02
	M1MM	40		----------	GE34300-003A	NAME PLATE	(Addition)	1	02
	M1MM	40		----------	GE34309-002A	NAME PLATE	(Addition)	1	03

CD mechanism (FLM-HC1-1D) [MBMM]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	MBMM	27		QAL0993-001	QAL1226-001	PICK UP	Delete ⚠	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10

Electrical parts list Main board Except KD-BTP50J,52U [01]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
⚠	01	IC701		JES199C	JES219B	IC		1	01,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10

Switch board J,E,EU,EY [02]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	02	B601		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B602		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B603		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B604		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B608		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B610		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B611		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02
	02	B613		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02

Switch board U,UI,UH,UN,UT,KD-R528J [03]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	03	C662		----------	NDC31HJ-121X	C CAPACITOR	(Addition)	1	03
	03	R664		----------	NRSA63J-164X	MG RESISTOR	(Addition)	1	03
	03	B621		----------	NQR0022-005X	FERRITE BEADS	(Addition)	1	03

Main board KD-BTP50J,52U [05]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
⚠	05	IC1		----------	TEF6614TV1S4-X	IC	(Addition)	1	02,03
	05	IC80		----------	MFI341S2313-X	IC	(Addition)	1	02,03
	05	IC161		----------	TDA7718N-X	IC	(Addition)	1	02,03
⚠	05	IC301		----------	TB2926CHQ	IC	(Addition)	1	02,03
⚠	05	IC501		----------	LA6565-X	IC	(Addition)	1	02,03
	05	IC530		----------	XC6213B332NG-X	IC	(Addition)	1	02,03
	05	IC531		----------	XC6213B152NG-X	IC	(Addition)	1	02,03
	05	IC532		----------	XC6213B152NG-X	IC	(Addition)	1	02,03
⚠	05	IC540		----------	JCV8022	IC	(Addition)	1	02,03
	05	IC580		----------	NJM4565E-X	IC	(Addition)	1	02,03
⚠	05	IC701		----------	JES219B	IC	(Addition)	1	02,03
	05	IC702		----------	XC6120N282NG-X	IC	(Addition)	1	02,03
	05	IC771		----------	R1EX24002ASAA-X	IC	(Addition)	1	02,03
⚠	05	IC901		----------	LV5680P	IC	(Addition)	1	02,03
	05	IC931		----------	XC6213B332NG-X	IC	(Addition)	1	02,03
	05	IC981		----------	MP2562DS-X	IC	(Addition)	1	02,03
	05	Q321		----------	IMX9-W	PAIR TRANSISTOR	(Addition)	1	02,03
	05	Q341		----------	IMX9-W	PAIR TRANSISTOR	(Addition)	1	02,03
	05	Q540		----------	2SA2188/F/-X	TRANSISTOR	(Addition)	1	02,03
	05	Q701		----------	RT1P144C-X	DIGI TRANSISTOR	(Addition)	1	02,03
	05	Q780		----------	RT1P241C-X	TRANSISTOR	(Addition)	1	02,03
	05	Q781		----------	RT1N241C-X	DIGI TRANSISTOR	(Addition)	1	02,03
	05	Q782		----------	RT1P241C-X	TRANSISTOR	(Addition)	1	02,03
	05	Q881		----------	RT1N141C-X	DIGI TRANSISTOR	(Addition)	1	02,03
	05	Q951		----------	2SA812A/5-6/-X	TRANSISTOR	(Addition)	1	02,03
	05	Q951	or	----------	ISA1530AC1/QR/X	TRANSISTOR	(Addition)	1	02,03
	05	Q952		----------	RT1N441C-X	TRANSISTOR	(Addition)	1	02,03
	05	Q970		----------	2SC1623A/5-6/-X	TRANSISTOR	(Addition)	1	02,03
	05	Q970	or	----------	2SC3928A/QR/-X	TRANSISTOR	(Addition)	1	02,03
	05	Q971		----------	2SC1623A/5-6/-X	TRANSISTOR	(Addition)	1	02,03
	05	Q971	or	----------	2SC3928A/QR/-X	TRANSISTOR	(Addition)	1	02,03
	05	Q981		----------	RT1N441C-X	TRANSISTOR	(Addition)	1	02,03
	05	D102		----------	DZ2J068/M/-X	Z DIODE	(Addition)	1	02,03
	05	D112		----------	DZ2J068/M/-X	Z DIODE	(Addition)	1	02,03
	05	D120		----------	DZ2J062/M/-X	Z DIODE	(Addition)	1	02,03
	05	D121		----------	DZ2J062/M/-X	Z DIODE	(Addition)	1	02,03
	05	D130		----------	DZ2J062/M/-X	Z DIODE	(Addition)	1	02,03
	05	D131		----------	DZ2J062/M/-X	Z DIODE	(Addition)	1	02,03
	05	D321		----------	BAW56-TP-X	SI DIODE	(Addition)	1	02,03
	05	D321	or	----------	MC2836-X	DIODE	(Addition)	1	02,03
	05	D341		----------	BAW56-TP-X	SI DIODE	(Addition)	1	02,03

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	05	D341	or	----------	MC2836-X	DIODE	(Addition)	1	02,03
	05	D502		----------	GS1J-LTP-X	DIODE	(Addition)	1	02,03
	05	D502	or	----------	1SR154-400-X	SI DIODE	(Addition)	1	02,03
	05	D540		----------	RKS801KF-X	SI DIODE	(Addition)	1	02,03
	05	D540	or	----------	DA2J101-X	SI DIODE	(Addition)	1	02,03
	05	D704		----------	DZ2J062/M/-X	Z DIODE	(Addition)	1	03
	05	D780		----------	BAW56-TP-X	SI DIODE	(Addition)	1	02,03
	05	D780	or	----------	MC2836-X	DIODE	(Addition)	1	02,03
	05	D781		----------	BAW56-TP-X	SI DIODE	(Addition)	1	02,03
	05	D781	or	----------	MC2836-X	DIODE	(Addition)	1	02,03
	05	D782		----------	RKS801KF-X	SI DIODE	(Addition)	1	02,03
	05	D782	or	----------	DA2J101-X	SI DIODE	(Addition)	1	02,03
	05	D783		----------	BAW56-TP-X	SI DIODE	(Addition)	1	02,03
	05	D783	or	----------	MC2836-X	DIODE	(Addition)	1	02,03
	05	D851		----------	MBRX130-TP-X	SB DIODE	(Addition)	1	03
	05	D852		----------	MBRX130-TP-X	SB DIODE	(Addition)	1	03
	05	D891		----------	BAW56-TP-X	SI DIODE	(Addition)	1	02,03
	05	D891	or	----------	MC2836-X	DIODE	(Addition)	1	02,03
⚠	05	D901		----------	1N5401-BPC04	SI DIODE	(Addition)	1	02,03
	05	D902		----------	MBRX130-TP-X	SB DIODE	(Addition)	1	02,03
	05	D941		----------	MBRX130-TP-X	SB DIODE	(Addition)	1	02,03
	05	D942		----------	MBRX130-TP-X	SB DIODE	(Addition)	1	02,03
	05	D970		----------	DZ2J068/M/-X	Z DIODE	(Addition)	1	02,03
	05	D971		----------	DZ2J068/M/-X	Z DIODE	(Addition)	1	02,03
	05	D981		----------	DB22306-X	SB DIODE	(Addition)	1	02,03
	05	D982		----------	RKS801KF-X	SI DIODE	(Addition)	1	02,03
	05	D982	or	----------	DA2J101-X	SI DIODE	(Addition)	1	02,03
	05	C1		----------	NCB31HK-102X	C CAPACITOR	(Addition)	1	02,03
	05	C2		----------	NDC31HJ-7R0X	C CAPACITOR	(Addition)	1	02,03
	05	C3		----------	NCB31HK-102X	C CAPACITOR	(Addition)	1	02,03
	05	C4		----------	NCB31CK-224X	C CAPACITOR	(Addition)	1	02,03
	05	C5		----------	NDC31HJ-150X	C CAPACITOR	(Addition)	1	02,03
	05	C6		----------	NDC31HJ-6R0X	C CAPACITOR	(Addition)	1	02,03
	05	C7		----------	NDC31HJ-270X	C CAPACITOR	(Addition)	1	02,03
	05	C10		----------	NCB21CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C11		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C12		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C13		----------	NCB21CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C14		----------	NCB31CK-224X	C CAPACITOR	(Addition)	1	02,03
	05	C15		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C16		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C17		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C18		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C19		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C20		----------	NDC31HJ-120X	C CAPACITOR	(Addition)	1	02,03
	05	C21		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C22		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C23		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C24		----------	QEKJ1CM-107Z	E CAPACITOR	(Addition)	1	02,03
	05	C25		----------	QEKJ1EM-106Z	E CAPACITOR	(Addition)	1	02,03
	05	C26		----------	NDC31HJ-471X	C CAPACITOR	(Addition)	1	02,03
	05	C27		----------	NDC31HJ-2R0X	C CAPACITOR	(Addition)	1	02,03
	05	C28		----------	NDC31HJ-100X	C CAPACITOR	(Addition)	1	02
	05	C80		----------	NCB31EK-473X	C CAPACITOR	(Addition)	1	02,03
	05	C101		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C102		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C111		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C112		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C121		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C122		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C131		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C132		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C160		----------	QEKJ1CM-106Z-S	E CAPACITOR	(Addition)	1	02,03
	05	C161		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C162		----------	QTE1V67-475Z	E CAPACITOR	(Addition)	1	02,03
	05	C166		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C169		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C170		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03

⚠	Symbol		or	Part No.		Part Name	Description	Qty	Models
				<Rev.001>	<Rev.002>				
	05	C171		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C172		----------	QEKJ1AM-107Z-S	E CAPACITOR	(Addition)	1	02,03
	05	C173		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C174		----------	QTE1V67-475Z	E CAPACITOR	(Addition)	1	02,03
	05	C177		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C178		----------	NRSA63J-470X	MG RESISTOR	(Addition)	1	02,03
	05	C301		----------	QTE1C66-474Z	E CAPACITOR	(Addition)	1	02,03
	05	C302		----------	QTE1C66-474Z	E CAPACITOR	(Addition)	1	02,03
	05	C303		----------	QTE1C66-474Z	E CAPACITOR	(Addition)	1	02,03
	05	C304		----------	QTE1C66-474Z	E CAPACITOR	(Addition)	1	02,03
	05	C305		----------	NCB21CK-474X-A	C CAPACITOR	(Addition)	1	02,03
	05	C306		----------	NCB21CK-474X-A	C CAPACITOR	(Addition)	1	02,03
	05	C307		----------	NCB21CK-474X-A	C CAPACITOR	(Addition)	1	02,03
	05	C308		----------	NCB21CK-474X-A	C CAPACITOR	(Addition)	1	02,03
	05	C309		----------	QEKJ1CM-226Z-S	E CAPACITOR	(Addition)	1	02,03
	05	C310		----------	QERF1CM-106Z-E	E CAPACITOR	(Addition)	1	02,03
	05	C311		----------	NCB31HK-223X	C CAPACITOR	(Addition)	1	02,03
	05	C312		----------	NCB31HK-223X	C CAPACITOR	(Addition)	1	02,03
	05	C313		----------	NCB21AK-105X-A	C CAPACITOR	(Addition)	1	02,03
	05	C314		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C315		----------	NCB31AK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C316		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C317		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C318		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C319		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C320		----------	QEKJ1HM-106Z	E CAPACITOR	(Addition)	1	02,03
	05	C321		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C330		----------	QEKJ1HM-106Z	E CAPACITOR	(Addition)	1	02,03
	05	C331		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C340		----------	QEKJ1HM-106Z	E CAPACITOR	(Addition)	1	02,03
	05	C341		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C350		----------	QEKJ1HM-106Z	E CAPACITOR	(Addition)	1	02,03
	05	C351		----------	NDC31HJ-101X	C CAPACITOR	(Addition)	1	02,03
	05	C503		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C504		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C511		----------	NDC31HJ-471X	C CAPACITOR	(Addition)	1	02,03
	05	C512		----------	NDC31HJ-471X	C CAPACITOR	(Addition)	1	02,03
	05	C513		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C514		----------	QERF1AM-107Z	E CAPACITOR	(Addition)	1	02,03
	05	C516		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C530		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C531		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C532		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C533		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C534		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C535		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C540		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C541		----------	NCB31HK-222X	C CAPACITOR	(Addition)	1	02,03
	05	C542		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C543		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C544		----------	NCB31HK-332X	C CAPACITOR	(Addition)	1	02,03
	05	C545		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C546		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C547		----------	NCB31HK-153X	C CAPACITOR	(Addition)	1	02,03
	05	C548		----------	NDC31HJ-680X	C CAPACITOR	(Addition)	1	02,03
	05	C549		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C550		----------	NCB20JK-106X-R	C CAPACITOR	(Addition)	1	02,03
	05	C551		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C552		----------	NCB31HK-333X	C CAPACITOR	(Addition)	1	02,03
	05	C553		----------	NCB31HK-472X	C CAPACITOR	(Addition)	1	02,03
	05	C554		----------	NDC31HJ-391X	C CAPACITOR	(Addition)	1	02,03
	05	C555		----------	NDC31HJ-681X	C CAPACITOR	(Addition)	1	02,03
	05	C556		----------	NCB31CK-683X	C CAPACITOR	(Addition)	1	02,03
	05	C557		----------	NCB31EK-473X	C CAPACITOR	(Addition)	1	02,03
	05	C558		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C559		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C561		----------	NCB20JK-106X	C CAPACITOR	(Addition)	1	02,03
	05	C562		----------	NCB20JK-106X	C CAPACITOR	(Addition)	1	02,03

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	05	C564		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C565		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C566		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C567		----------	NCB31CK-105X	C CAPACITOR	(Addition)	1	02,03
	05	C568		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C569		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C570		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C571		----------	NDC31HJ-470X	C CAPACITOR	(Addition)	1	02,03
	05	C572		----------	NCB31HK-153X	C CAPACITOR	(Addition)	1	02,03
	05	C573		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C574		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C576		----------	NCB31HK-152X	C CAPACITOR	(Addition)	1	02,03
	05	C584		----------	QERF1EM-475Z-E	E CAPACITOR	(Addition)	1	02,03
	05	C585		----------	NDC31HJ-680X	C CAPACITOR	(Addition)	1	02,03
	05	C586		----------	QERF1EM-475Z-E	E CAPACITOR	(Addition)	1	02,03
	05	C587		----------	NDC31HJ-680X	C CAPACITOR	(Addition)	1	02,03
	05	C588		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C590		----------	QEKJ0JM-476Z-S	E CAPACITOR	(Addition)	1	02,03
	05	C591		----------	QEKJ0JM-476Z-S	E CAPACITOR	(Addition)	1	02,03
	05	C594		----------	NDC31HJ-680X	C CAPACITOR	(Addition)	1	02,03
	05	C595		----------	NDC31HJ-680X	C CAPACITOR	(Addition)	1	02,03
	05	C701		----------	NDC31HJ-100X	C CAPACITOR	(Addition)	1	02,03
	05	C702		----------	NDC31HJ-100X	C CAPACITOR	(Addition)	1	02,03
	05	C703		----------	NCB31HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C704		----------	QEKJ0JM-107Z	E CAPACITOR	(Addition)	1	02,03
	05	C705		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C706		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C708		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C711		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C712		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C713		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C714		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C715		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C716		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C717		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C718		----------	NCB31AK-474X	C CAPACITOR	(Addition)	1	02,03
	05	C722		----------	NCB10JK-106X-A	C CAPACITOR	(Addition)	1	02,03
	05	C723		----------	NCB31EK-473X	C CAPACITOR	(Addition)	1	02,03
	05	C724		----------	NDC31HJ-180X	C CAPACITOR	(Addition)	1	02,03
	05	C725		----------	NDC31HJ-180X	C CAPACITOR	(Addition)	1	02,03
	05	C728		----------	NCB11HK-103X	C CAPACITOR	(Addition)	1	02,03
	05	C729		----------	NCB31HK-472X	C CAPACITOR	(Addition)	1	02,03
	05	C730		----------	NCB31HK-472X	C CAPACITOR	(Addition)	1	02,03
	05	C731		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C733		----------	NCB10JK-106X-A	C CAPACITOR	(Addition)	1	02,03
	05	C881		----------	QEKJ1CM-226Z	E CAPACITOR	(Addition)	1	02,03
	05	C891		----------	NCB31HK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C901		----------	QEZ0937-278	E CAPACITOR	(Addition)	1	02,03
	05	C902		----------	NCB31EK-474X	C CAPACITOR	(Addition)	1	02,03
	05	C903		----------	QEKJ1CM-476Z	E CAPACITOR	(Addition)	1	02,03
	05	C904		----------	QEKJ1CM-476Z	E CAPACITOR	(Addition)	1	02,03
	05	C905		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C906		----------	QEKJ1CM-107Z	E CAPACITOR	(Addition)	1	02,03
	05	C907		----------	QERF0JM-337Z	E CAPACITOR	(Addition)	1	02,03
	05	C908		----------	NCJ11EK-106X-R	C CAPACITOR	(Addition)	1	03
	05	C910		----------	QEKJ1EM-106Z	E CAPACITOR	(Addition)	1	02,03
	05	C912		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C913		----------	QERF0JM-337Z	E CAPACITOR	(Addition)	1	02,03
	05	C914		----------	NCB31HK-472X	C CAPACITOR	(Addition)	1	02,03
	05	C931		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C932		----------	QERF0JM-337Z	E CAPACITOR	(Addition)	1	02,03
	05	C933		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C941		----------	NCB31HK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C954		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03
	05	C962		----------	QEKJ0JM-107Z	E CAPACITOR	(Addition)	1	02,03
	05	C981		----------	NCB10JK-106X-A	C CAPACITOR	(Addition)	1	02,03
	05	C983		----------	NDC31HJ-151X	C CAPACITOR	(Addition)	1	02,03
	05	C984		----------	NCB31CK-104X	C CAPACITOR	(Addition)	1	02,03

⚠	Symbol		or	Part No.		Part Name	Description	Qty	Models
				<Rev.001>	<Rev.002>				
	05	C985		----------	NCJ11EK-106X-R	C CAPACITOR	(Addition)	1	02,03
	05	C987		----------	NCB10JK-106X-A	C CAPACITOR	(Addition)	1	02,03
	05	C989		----------	NCJ11EK-106X-R	C CAPACITOR	(Addition)	1	02,03
	05	C990		----------	NCB31HK-104X	C CAPACITOR	(Addition)	1	02,03
	05	R1		----------	NRSA63J-684X	MG RESISTOR	(Addition)	1	02,03
	05	R2		----------	NRSA63J-684X	MG RESISTOR	(Addition)	1	02,03
	05	R4		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R5		----------	NRSA02J-470X	MG RESISTOR	(Addition)	1	02,03
	05	R6		----------	NRSA63J-221X	MG RESISTOR	(Addition)	1	02,03
	05	R7		----------	NRSA63J-221X	MG RESISTOR	(Addition)	1	02,03
	05	R8		----------	NRSA02J-470X	MG RESISTOR	(Addition)	1	02,03
	05	R9		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	03
	05	R11		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R82		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R100		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R101		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R102		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R110		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R111		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R112		----------	NRSA63J-471X	MG RESISTOR	(Addition)	1	02,03
	05	R120		----------	NQR0007-002X	FERRITE BEADS	(Addition)	1	02,03
	05	R121		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R122		----------	NQR0007-002X	FERRITE BEADS	(Addition)	1	02,03
	05	R130		----------	NQR0007-002X	FERRITE BEADS	(Addition)	1	02,03
	05	R131		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R132		----------	NRSA63J-471X	MG RESISTOR	(Addition)	1	02,03
	05	R161		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R162		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R163		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R165		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R167		----------	NRSA63J-222X	MG RESISTOR	(Addition)	1	02,03
	05	R168		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R302		----------	NRS181J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R304		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R307		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R310		----------	NRS181J-100X	MG RESISTOR	(Addition)	1	02,03
	05	R320		----------	NRSA63J-331X	MG RESISTOR	(Addition)	1	02,03
	05	R321		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02,03
	05	R322		----------	NRSA63J-181X	MG RESISTOR	(Addition)	1	02,03
	05	R323		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R330		----------	NRSA63J-331X	MG RESISTOR	(Addition)	1	02,03
	05	R331		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02,03
	05	R332		----------	NRSA63J-181X	MG RESISTOR	(Addition)	1	02,03
	05	R333		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R340		----------	NRSA63J-331X	MG RESISTOR	(Addition)	1	02,03
	05	R341		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02,03
	05	R342		----------	NRSA63J-181X	MG RESISTOR	(Addition)	1	02,03
	05	R343		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R347		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R349		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R350		----------	NRSA63J-331X	MG RESISTOR	(Addition)	1	02,03
	05	R351		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02,03
	05	R352		----------	NRSA63J-181X	MG RESISTOR	(Addition)	1	02,03
	05	R353		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R357		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R358		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R373		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R400		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R401		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R402		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R403		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R404		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R405		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R406		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R408		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R409		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R410		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R411		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03

⚠	Symbol		or	Part No.		Part Name	Description	Qty	Models
				<Rev.001>	<Rev.002>				
	05	R412		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R413		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R414		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R415		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R416		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R417		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R418		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R419		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R420		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R421		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R422		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R423		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R424		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R425		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R427		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R428		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R429		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R430		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R431		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R432		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R433		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R434		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R435		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R436		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R437		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R438		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R439		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R440		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R441		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R442		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R443		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R444		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R445		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R446		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R447		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R448		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R449		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R450		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R451		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R452		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R453		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R454		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R455		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R456		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R457		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R459		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R461		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R462		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R463		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R464		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R465		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R466		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R467		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R468		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R469		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R470		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R471		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R472		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R473		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R474		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R475		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R477		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R478		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R479		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R480		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R481		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R482		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R483		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03

⚠	Symbol		or	Part No.		Part Name	Description	Qty	Models
				<Rev.001>	<Rev.002>				
	05	R484		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R485		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R486		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R487		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R488		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R491		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R493		----------	NRS181J-150X	MG RESISTOR	(Addition)	1	02,03
	05	R494		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R495		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R501		----------	NRSA63J-333X	MG RESISTOR	(Addition)	1	02,03
	05	R502		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R503		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R504		----------	NRS181J-513X	MG RESISTOR	(Addition)	1	02,03
	05	R505		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02,03
	05	R506		----------	NRSA63J-682X	MG RESISTOR	(Addition)	1	02,03
	05	R507		----------	NRSA63J-113X	MG RESISTOR	(Addition)	1	02,03
	05	R508		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R509		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R510		----------	NRSA63J-822X	MG RESISTOR	(Addition)	1	02,03
	05	R511		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R512		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R513		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R514		----------	NRSA63J-822X	MG RESISTOR	(Addition)	1	02,03
	05	R515		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R516		----------	NRSA63J-822X	MG RESISTOR	(Addition)	1	02,03
	05	R517		----------	NRSA63J-822X	MG RESISTOR	(Addition)	1	02,03
	05	R518		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R519		----------	NRSA63J-683X	MG RESISTOR	(Addition)	1	02,03
	05	R520		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R530		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R534		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R540		----------	NRSA63J-221X	MG RESISTOR	(Addition)	1	02,03
	05	R541		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R543		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R545		----------	NRSA63J-225X	MG RESISTOR	(Addition)	1	02,03
	05	R547		----------	NRSA63J-4R7X	MG RESISTOR	(Addition)	1	02,03
	05	R548		----------	NRSA63J-104X	MG RESISTOR	(Addition)	1	02,03
	05	R549		----------	NRSA63J-102X	MG RESISTOR	(Addition)	1	02,03
	05	R550		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R551		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R552		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R553		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R554		----------	NRSA02J-4R7X	MG RESISTOR	(Addition)	1	02,03
	05	R555		----------	NRSA02J-4R7X	MG RESISTOR	(Addition)	1	02,03
	05	R556		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R557		----------	NRSA63J-471X	MG RESISTOR	(Addition)	1	02,03
	05	R558		----------	NRSA63J-105X	MG RESISTOR	(Addition)	1	02,03
	05	R559		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R560		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R561		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R562		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R563		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R564		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R565		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R566		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R567		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R568		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R569		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R570		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R571		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R572		----------	NRSA63J-104X	MG RESISTOR	(Addition)	1	02,03
	05	R573		----------	NRSA63J-334X	MG RESISTOR	(Addition)	1	02,03
	05	R574		----------	NRSA63J-153X	MG RESISTOR	(Addition)	1	02,03
	05	R575		----------	NRS181J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R576		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R577		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R579		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R580		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03

⚠	Symbol		or	Part No.		Part Name	Description	Qty	Models
				<Rev.001>	<Rev.002>				
	05	R581		----------	NRSA02J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R582		----------	NRSA63J-224X	MG RESISTOR	(Addition)	1	02,03
	05	R583		----------	NRS181J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R584		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R585		----------	NRSA02J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R586		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R587		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R588		----------	NRSA63J-224X	MG RESISTOR	(Addition)	1	02,03
	05	R589		----------	NRSA02J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R590		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R591		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R592		----------	NRSA63J-203X	MG RESISTOR	(Addition)	1	02,03
	05	R593		----------	NRSA63J-203X	MG RESISTOR	(Addition)	1	02,03
	05	R594		----------	NRS181J-100X	MG RESISTOR	(Addition)	1	02,03
	05	R597		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R598		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R599		----------	NRSA02J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R701		----------	NRS181J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R702		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R703		----------	NRSA63J-911X	MG RESISTOR	(Addition)	1	02,03
	05	R706		----------	NRSA63J-911X	MG RESISTOR	(Addition)	1	02,03
	05	R708		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R712		----------	NRSA63J-911X	MG RESISTOR	(Addition)	1	02,03
	05	R713		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R715		----------	NRS181J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R718		----------	NRS181J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R720		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R721		----------	NRSA63J-105X	MG RESISTOR	(Addition)	1	02,03
	05	R722		----------	NRS181J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R723		----------	NRS181J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R724		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R725		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R726		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R727		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R728		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R730		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R731		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R732		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R735		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R736		----------	NRS181J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R737		----------	NRSA63J-911X	MG RESISTOR	(Addition)	1	03
	05	R738		----------	NRSA63J-222X	MG RESISTOR	(Addition)	1	02,03
	05	R739		----------	NRS181J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R740		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R741		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R742		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R743		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R744		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R745		----------	NRSA63J-101X	MG RESISTOR	(Addition)	1	02,03
	05	R746		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R747		----------	NRSA63J-243X	MG RESISTOR	(Addition)	1	02,03
	05	R749		----------	NRSA63J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R750		----------	NRSA63J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R751		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02,03
	05	R753		----------	NRSA63J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R754		----------	NRSA63J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R756		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R757		----------	NRSA02J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R758		----------	NRSA63J-332X	MG RESISTOR	(Addition)	1	02,03
	05	R759		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	03
	05	R762		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R763		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R764		----------	NRSA63J-393X	MG RESISTOR	(Addition)	1	03
	05	R765		----------	NRSA63J-273X	MG RESISTOR	(Addition)	1	02
	05	R765		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	03
	05	R766		----------	NRS181J-473X	MG RESISTOR	(Addition)	1	02
	05	R766		----------	NRS181J-822X	MG RESISTOR	(Addition)	1	03
	05	R767		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02

⚠	Symbol		or	Part No.		Part Name	Description	Qty	Models
				<Rev.001>	<Rev.002>				
	05	R767		----------	NRSA63J-273X	MG RESISTOR	(Addition)	1	03
	05	R768		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R770		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R771		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R772		----------	NRS181J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R773		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R774		----------	NRSA63D-472X	MG RESISTOR	(Addition)	1	02,03
	05	R775		----------	NRSA63J-153X	MG RESISTOR	(Addition)	1	02,03
	05	R776		----------	NRSA63J-153X	MG RESISTOR	(Addition)	1	02,03
	05	R777		----------	NRSA63J-102X	MG RESISTOR	(Addition)	1	03
	05	R778		----------	NRSA63J-271X	MG RESISTOR	(Addition)	1	02,03
	05	R779		----------	NRSA63J-271X	MG RESISTOR	(Addition)	1	02,03
	05	R780		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R781		----------	NRSA63J-331X	MG RESISTOR	(Addition)	1	02,03
	05	R782		----------	NRSA63J-821X	MG RESISTOR	(Addition)	1	02,03
	05	R783		----------	NRSA63J-104X	MG RESISTOR	(Addition)	1	02,03
	05	R784		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R785		----------	NRSA63J-223X	MG RESISTOR	(Addition)	1	02
	05	R785		----------	NRSA63J-273X	MG RESISTOR	(Addition)	1	03
	05	R786		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R789		----------	NRSA63J-270X	MG RESISTOR	(Addition)	1	02,03
	05	R790		----------	NRSA63J-270X	MG RESISTOR	(Addition)	1	02,03
	05	R851		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	03
	05	R881		----------	NRSA63J-273X	MG RESISTOR	(Addition)	1	02,03
	05	R882		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R891		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R892		----------	NRSA63J-683X	MG RESISTOR	(Addition)	1	02,03
	05	R893		----------	NRS181J-123X	MG RESISTOR	(Addition)	1	02,03
	05	R894		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R901		----------	QRE141J-103Y	C RESISTOR	(Addition)	1	02,03
	05	R906		----------	NRSA63J-562X	MG RESISTOR	(Addition)	1	02,03
	05	R907		----------	NRSA63J-274X	MG RESISTOR	(Addition)	1	02,03
	05	R908		----------	NRSA63J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R909		----------	NRSA63J-273X	MG RESISTOR	(Addition)	1	02,03
	05	R922		----------	NRS181J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R941		----------	NRS181J-472X	MG RESISTOR	(Addition)	1	02,03
	05	R951		----------	NRS181J-102X	MG RESISTOR	(Addition)	1	02,03
	05	R952		----------	NRSA63J-331X	MG RESISTOR	(Addition)	1	02,03
	05	R961		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R962		----------	NRS181J-271X	MG RESISTOR	(Addition)	1	02,03
	05	R965		----------	NRSA63J-0R0X	MG RESISTOR	(Addition)	1	02,03
	05	R970		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R971		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R972		----------	NRSA63J-103X	MG RESISTOR	(Addition)	1	02,03
	05	R973		----------	NRSA63J-203X	MG RESISTOR	(Addition)	1	02,03
	05	R974		----------	NRSA63J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R975		----------	NRSA02J-473X	MG RESISTOR	(Addition)	1	02,03
	05	R976		----------	NRSA02J-683X	MG RESISTOR	(Addition)	1	02,03
	05	R981		----------	NRSA63D-184X	MG RESISTOR	(Addition)	1	02,03
	05	R982		----------	NRSA63D-333X	MG RESISTOR	(Addition)	1	02,03
	05	R983		----------	NRSA63J-154X	MG RESISTOR	(Addition)	1	02,03
	05	R985		----------	NRSA63D-134X	MG RESISTOR	(Addition)	1	02,03
	05	R986		----------	NRSA63D-753X	MG RESISTOR	(Addition)	1	02,03
	05	L1		----------	QQL231K-R47Y	COIL	(Addition)	1	02,03
	05	L2		----------	QQL231K-1R8Y	COIL	(Addition)	1	02,03
	05	L3		----------	QQL231K-R27Y	COIL	(Addition)	1	02,03
	05	L4		----------	QQR1872-001	RF COIL	(Addition)	1	02,03
	05	L5		----------	QQL244J-561Z	COIL	(Addition)	1	02,03
	05	L6		----------	QQL244J-561Z	COIL	(Addition)	1	02,03
	05	L7		----------	QQL231K-4R7Y	INDUCTOR	(Addition)	1	02,03
	05	L8		----------	QQL231K-4R7Y	INDUCTOR	(Addition)	1	02,03
	05	L9		----------	QQL231K-R47Y	COIL	(Addition)	1	02,03
	05	L10		----------	NQL103J-10NX	COIL	(Addition)	1	02
	05	L11		----------	NQR0251-002X	FERRITE BEADS	(Addition)	1	02,03
	05	L12		----------	NQR0251-002X	FERRITE BEADS	(Addition)	1	02,03
	05	L101		----------	NQR0499-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L161		----------	NQL553J-27NX	COIL	(Addition)	1	02,03
	05	L531		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	05	L561		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L562		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L563		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L564		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L565		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L701		----------	QQL231K-4R7Y	INDUCTOR	(Addition)	1	02,03
	05	L702		----------	QQL231K-4R7Y	INDUCTOR	(Addition)	1	02,03
	05	L703		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L901		----------	QQR1884-001	CHOKE COIL	(Addition)	1	02,03
	05	L981		----------	QQL92AK-220Z	COIL	(Addition)	1	02,03
	05	L982		----------	NQLH25M-4R7X	COIL	(Addition)	1	02,03
	05	L983		----------	NQR0499-001X	FERRITE BEADS	(Addition)	1	02,03
	05	L985		----------	NQR0502-001X	FERRITE BEADS	(Addition)	1	02,03
	05	CN502		----------	QGF1040F1-26	CONNECTOR	(Addition)	1	02,03
	05	CN701		----------	QGZ1102J1-20	CONNECTOR	(Addition)	1	02,03
	05	CN901		----------	QNZ0607-001	CAR CONNECTOR	(Addition)	1	02,03
	05	J1		----------	QNB0190-001	ANT TERMINAL	(Addition)	1	02,03
	05	J1	or	----------	QNB0348-001	ANT TERMINAL	(Addition)	1	02,03
	05	J120		----------	QNS0307-001	3.5 JACK	(Addition)	1	02,03
	05	J321		----------	QNN0868-001	PIN JACK	(Addition)	1	02,03
	05	S701		----------	QSW0648-001Z	TACT SWITCH	(Addition)	1	02,03
	05	X1		----------	QAX0952-001Z	CRYSTAL	(Addition)	1	02,03
	05	X540		----------	QAX0929-001Z	C RESONATOR	(Addition)	1	02,03
	05	X701		----------	QAX0957-001Z	CRYSTAL	(Addition)	1	02,03
	05	X702		----------	QAX0401-001	CRYSTAL	(Addition)	1	02,03

Packing and accessories [M3MM]

⚠	Symbol		or	Part No. <Rev.001>	Part No. <Rev.002>	Part Name	Description	Qty	Models
	M3MM	A19		----------	----------	WARRANTY CARD	(Addition)	1	02
	M3MM	A20		----------	----------	WARRANTY CARD	(Addition)	1	02
	M3MM	P1		----------	GE34491-001A	CARTON	(Addition)	1	02
	M3MM	P1		----------	GE34523-001A	CARTON	(Addition)	1	03
	M3MM	P2		----------	GE10299-002A	CUSHION	(Addition)	1	02,03
	M3MM	P3		----------	QPC03004315PL	POLY BAG	(Addition)	1	02,03
	M3MM	P6		----------	FSPG4002-001	POLY BAG	(Addition)	1	02,03
	M3MM	P7		----------	QPA00801205	POLY BAG	(Addition)	1	02,03

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