Pioneer

Service Manual

TOYOTA

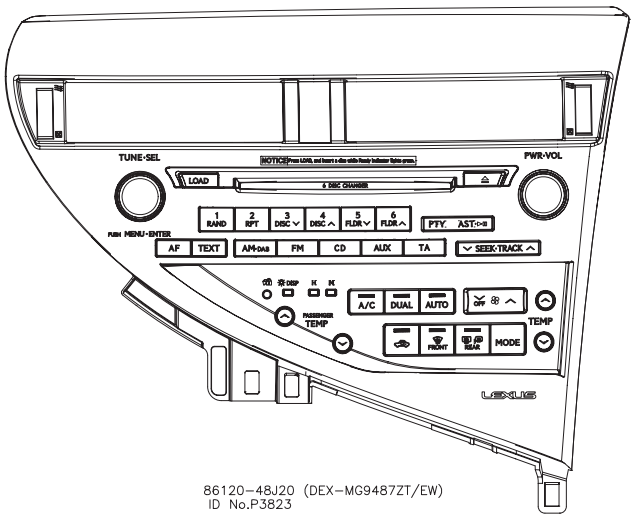
ORDER NO.
CRT4253

LEXUS RX
LEXUS RX(hybrid)
AUDIO SYSTEM
HEAD UNIT

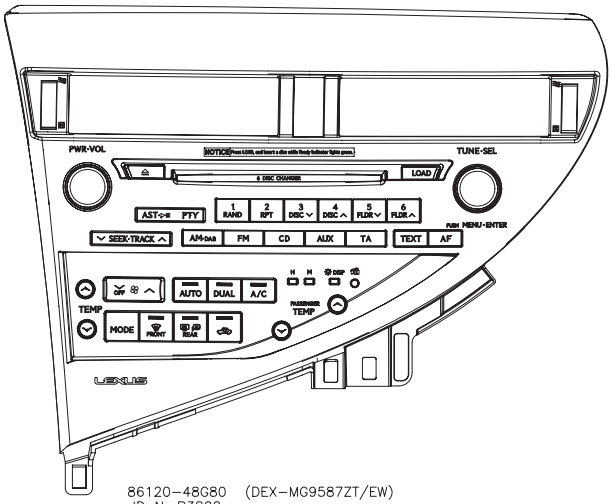
VEHICLE	DESTINATION	PRODUCED AFTER	OEM PARTS No.	ID No.	PIONEER MODEL No.
RX RX(hybrid)	EUROPE	December 2008	86120-48J20	P3823	DEX-MG9487ZT/EW DEX-MG9487ZT-91/EW
RX RX(hybrid)	EUROPE	December 2008	86120-48G80	P3822	DEX-MG9587ZT/EW DEX-MG9587ZT-91/EW

Manufactured for TOYOTA
by PIONEER CORPORATION

PUB.NO.CRT4253



86120-48J20 (DEX-MG9487ZT/EW)
ID No.P3823



86120-48G80 (DEX-MG9587ZT/EW)
ID No.P3822

Supplementary model is identical to the original except for the addition of following items.

*:Non spare part

Description	-91 model
Cover	CEG1045 (x 2)
Cover	CEG1326
Unit Box	CHA3750
Contain Box	CHD3750 (x 1/2)
* Air Cap	CHW1945
* Air Cap	CHW1948 (x 4)

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3228	CRT4162	G4	Circuit Over View, Mech. Over View, Disassembly, How To Assemble

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safety repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safety, you should not risk trying to do so and refer the repair to a qualified service technician.

Where in a manufacturer's service documentation, for example in circuit diagrams or lists of components, a symbol is used to indicate that a specific component shall be replaced only by the component specified in that documentation for safety reasons, the following symbol shall be used:

⚠

● **Safety Precautions for those who Service this Unit.**
When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

1. **During repair or tests, minimum distance of 13 cm from the focus lens must be kept.**
2. **During repair or tests, do not view laser beam for 10 seconds or longer.**

CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION
CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

WARNING!

The AEL (accessible emission level)of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for CLASS 1.
A specially instructed person should do servicing operation of the apparatus.

Laser diode characteristics

Wave length : 785 nm to 814 nm

Maximum output : 1 190 μW(Emitting period : unlimited)

Additional Laser Caution

Transistors Q101 in PCB drive the laser diodes.
When Q101 is shorted between their terminals, the laser diodes will radiate beam.
If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

CONTENTS

1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS

1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
3. This product has a transportation mode. There is a possibility to (the mechanism damage by the impact during transportation), if you did not put it in the transportation mode.
   Definitely put it in the transportation mode after servicing.
   Refer to the “6.6 TRANSPORTATION MODE” regarding how to put in the transportation mode.
4. Before turning ON the power supply, connect FFC between A/C Controller ASSY and Heat-Control Panel properly.
   If you turn ON electricity while FFC is inserted obliquely, the product may be broken.
5. If you attach the front panel to Chassis after the repair is terminated, insert FFC in A/C Controller ASSY by folding FFC properly.
6. Do not insert any metallic object in the hole at the lower part of the product (area where the sending pin land is collected). If you turn ON electricity while any metallic object contacts the sending pin land, the product may be broken.
7. Before turning ON the power supply, be sure to attach the grille. If you do not attach it, the Chassis is recognized as the model with display and the button is disabled.
8. Before turning ON the power supply, properly connect FFC between main board and Bluetooth module and FFC between main board and CDCH mechanism.

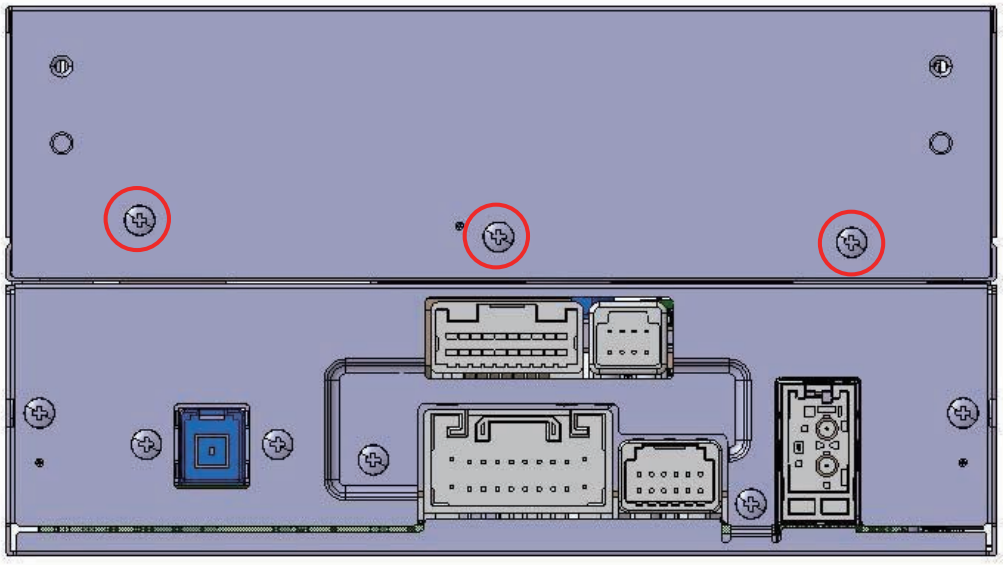
CD MECHANISM MODULE section precaution

1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY" .

• The unit employs a single voltage (+5 V) for the regulator, thus the reference potential of the signal is REFO (approximately 2.5 V) rather than GND.
Inadvertent contact of REFO and GND during adjustment can result not only in disabling normal potential measurement but also in exposing the pickup to strong impacts due to malfunctioning of the servo.
Therefore, you are requested to observe the following precautions.

• Make sure that the negative probe of the measuring instrument is not connected to REFO or GND. Special care must be exercised so that the channel 1 negative probe may not be connected to the oscilloscope and the channel 2 negative probe to GND. Since the frame of the measuring instrument is usually at the same potential as the negative probe, the frame of the measuring instrument must be changed to floating status.
When REFO is inadvertently connected to GND, you must immediately turn off the regulator or power supply.

• This model employs a photo-transistor for detecting discs at their loading or ejection. Thus, if its outer case is removed during repair work and internal parts are exposed to light of strong intensity, malfunctions including the following can result:
* The eject button becomes inoperable during play. Pressing the eject button does not eject a disc and play is continued.
* Loading becomes unavailable.
If a malfunction is recognized, appropriate remedial actions must be taken. Such actions include changing the light source position, changing the unit position and applying a cover to the photo-transistor.



Attention points of wrong screwing up

[Red circle points (5 points)]
■ Regular screw : BSZ26P040FTC
■ A screw which is same form and different length (The color is black.) : BSZ26P060 FTB
* Phenomenon in the wrong : A screw bumps into the mecha drive part, and the mecha stacks.

1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ℃.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ℃ in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 SPECIFICATIONS

General

Power source .....13.2 V DC (10.5 V to 16.0 V allowable)
Grounding system ..... Negative type
Rated current..... 3.0 A or less
Backup current ..... 0.15 mA or less

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Distortion ..... 0.2 % or less
S/N ..... 80 dB or more
Separation ..... 65 dB or more
Stereo balance ..... 1.5 dB with in
Dynamic range ..... 80 dB or more

FM tuner

Frequency .....87.5 MHz to 108.0 MHz
S/N .....46 dB or more
Distortion .....1.5 % or less
Image interference .....35 dB or more
IF interference .....80 dB or more

AM tuner

Frequency ..... 522 kHz to 1 611 kHz
S/N ..... 42 dB or more
Distortion ..... 1.5 % or less
Image interference ..... 45 dB or more
IF interference ..... 55 dB or more

Weight

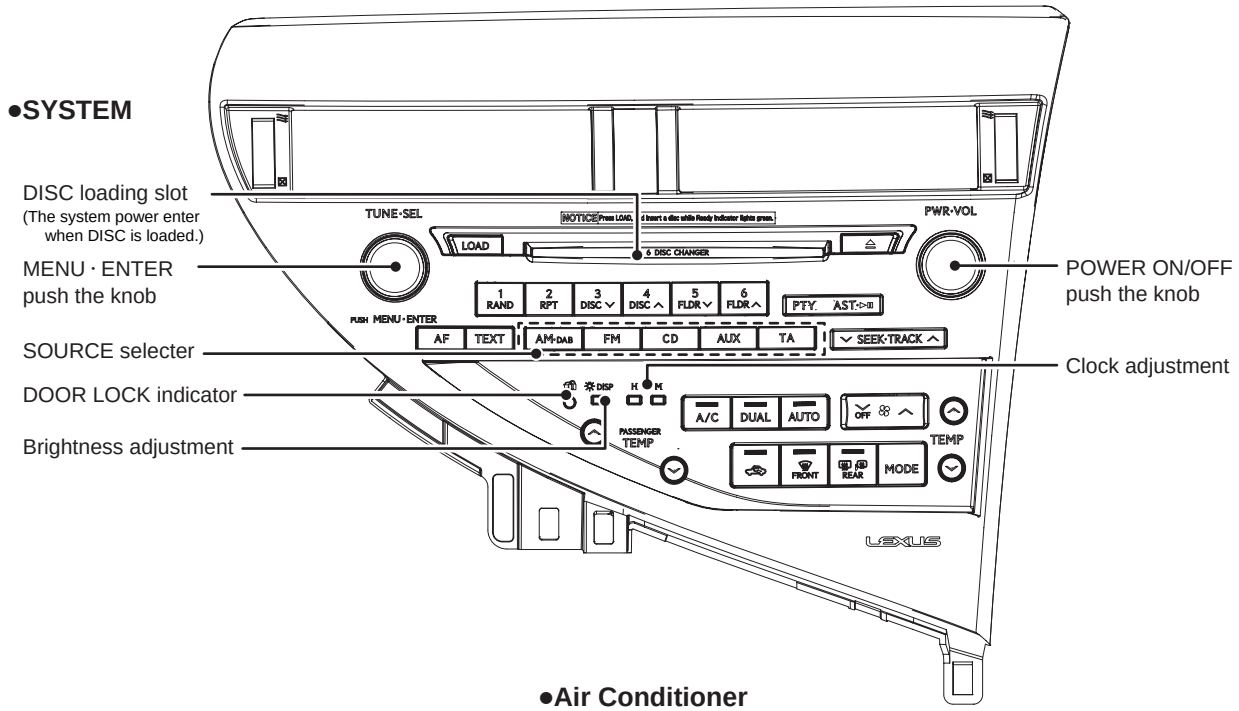
..... 3.160 kg

2.2 DISC/CONTENT FORMAT

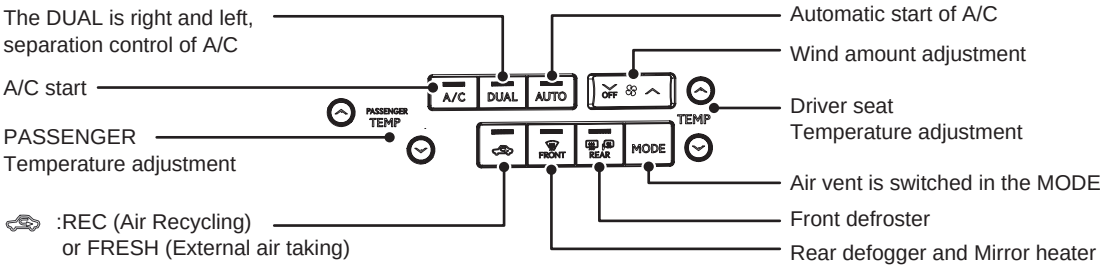
2.3 PANEL FACILITIES

DEX-MG9487ZT/EW

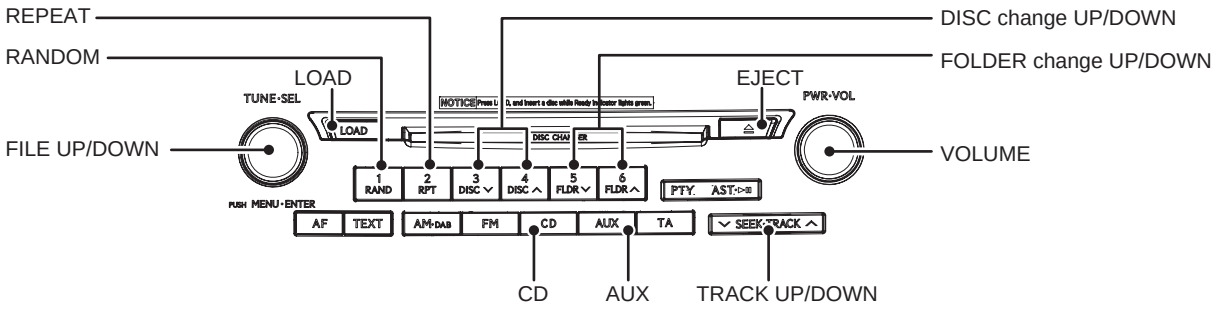
●SYSTEM



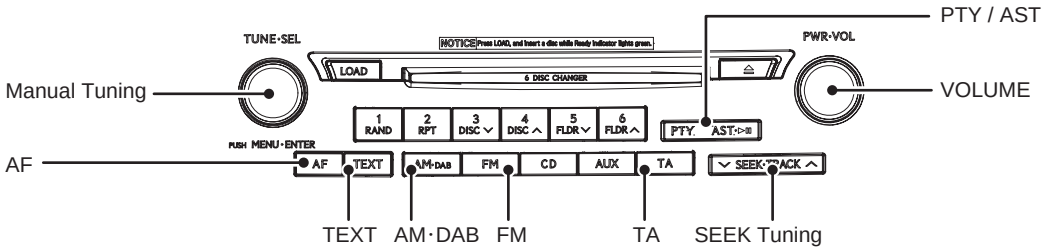
●Air Conditioner



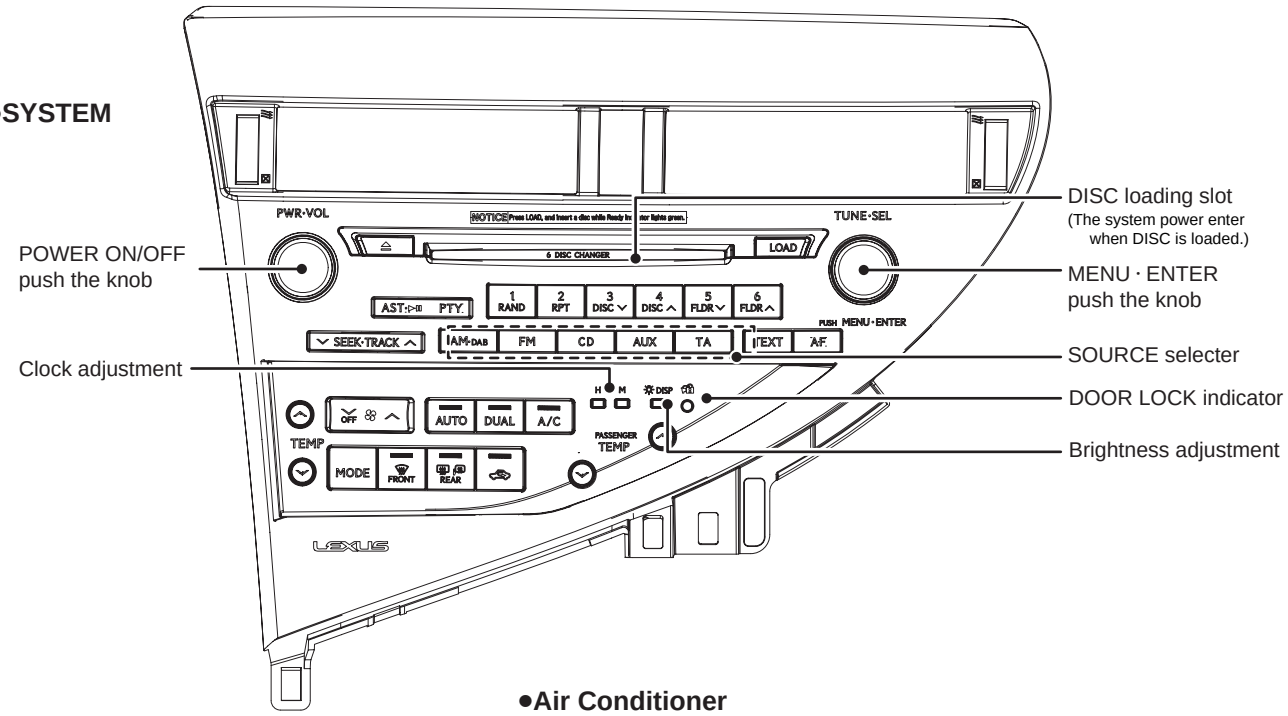
●AUDIO



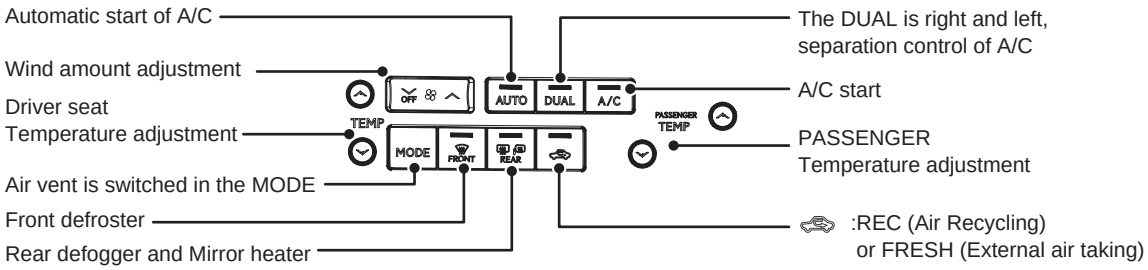
●RADIO



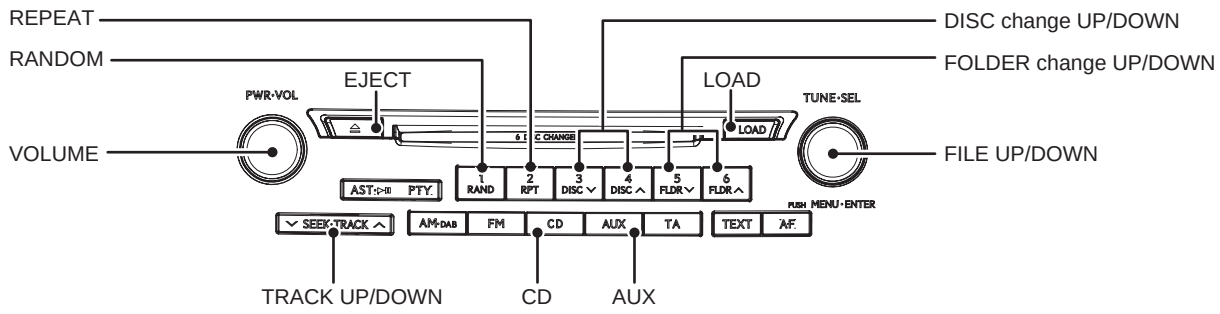
●SYSTEM



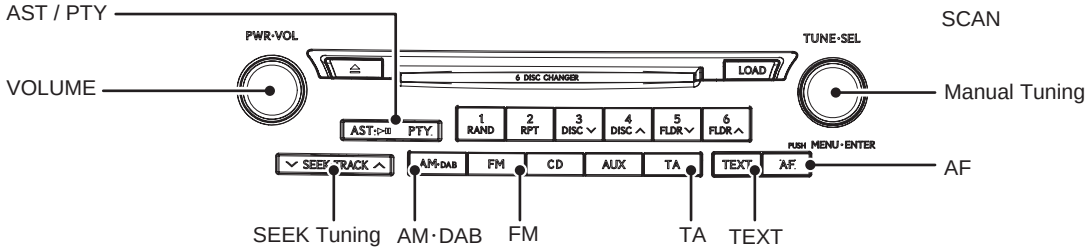
●Air Conditioner



●AUDIO



●RADIO



3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, please confirm following check points.

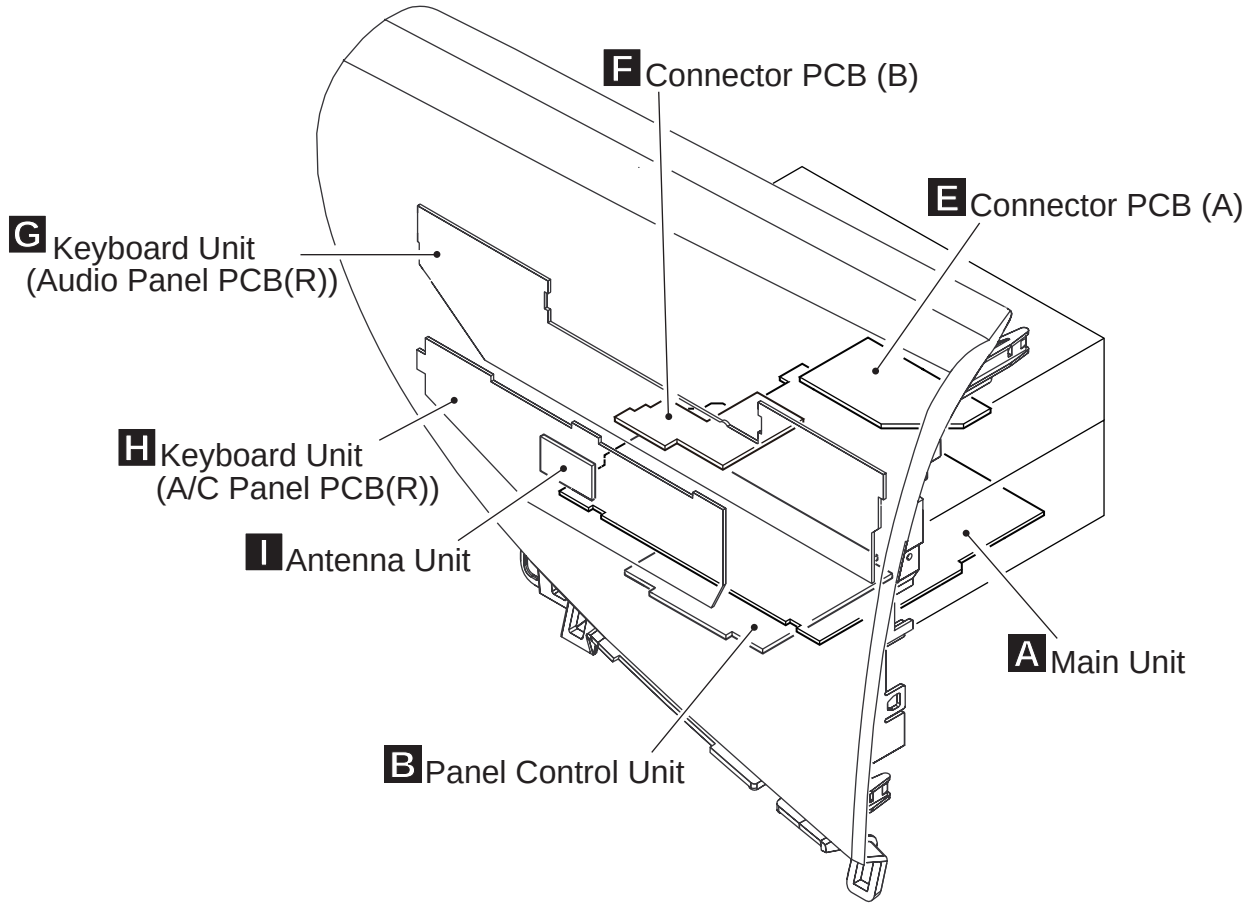
No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, audio and operations must be normal.
2	CD	Play back a CD. (Track search)	No malfunction on display, audio and operation.
3	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
4	Air Conditioner	Check the switch of Air Conditioner function.	Display must be normal.
5		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
6		Appearance check	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio:

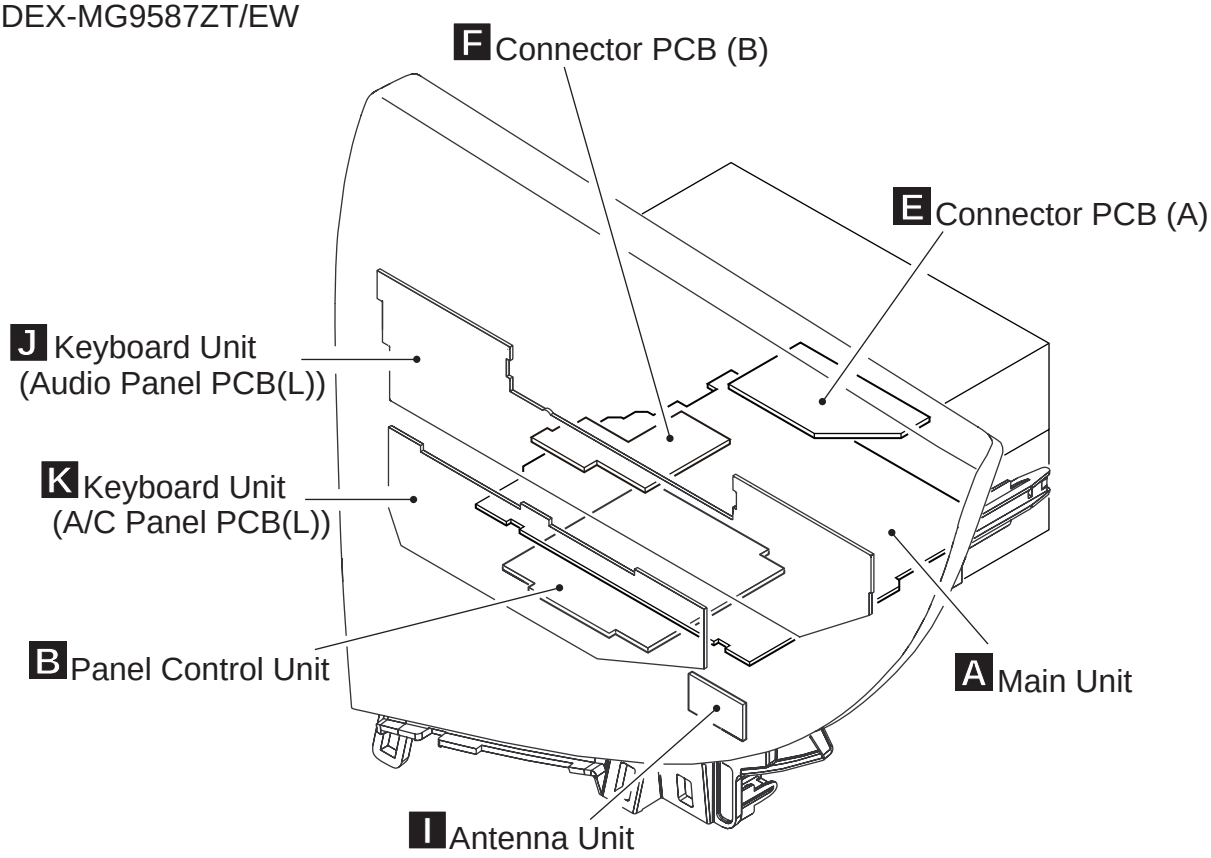
Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

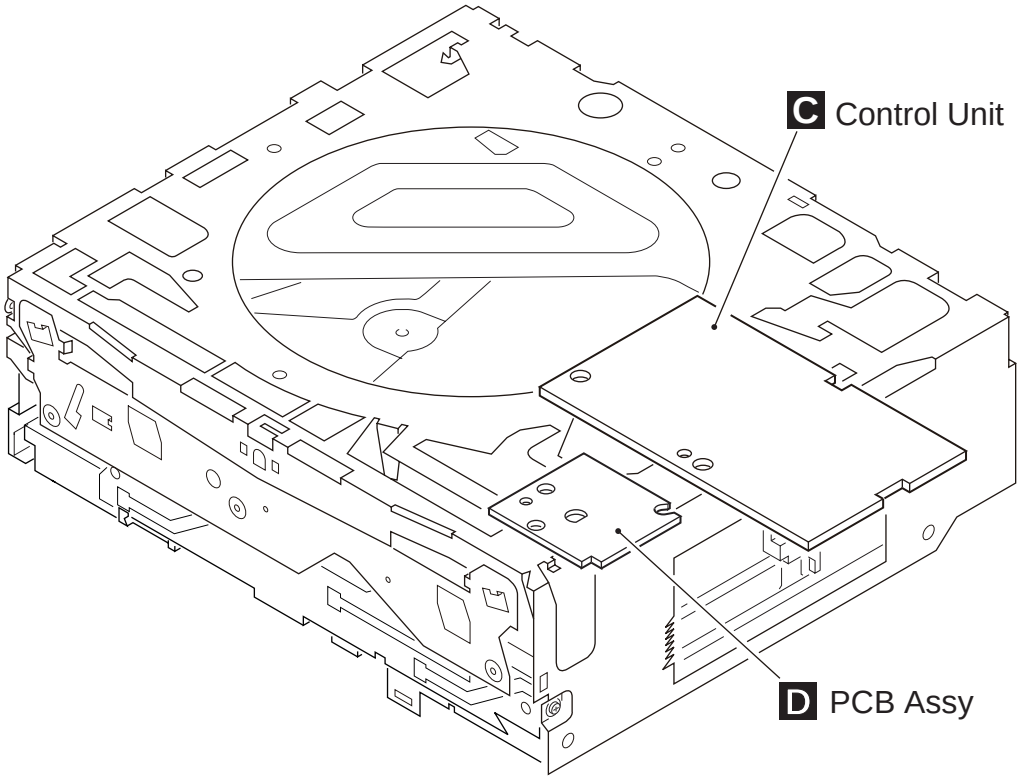
3.2 PCB LOCATIONS

DEX-MG9487ZT/EW



DEX-MG9587ZT/EW

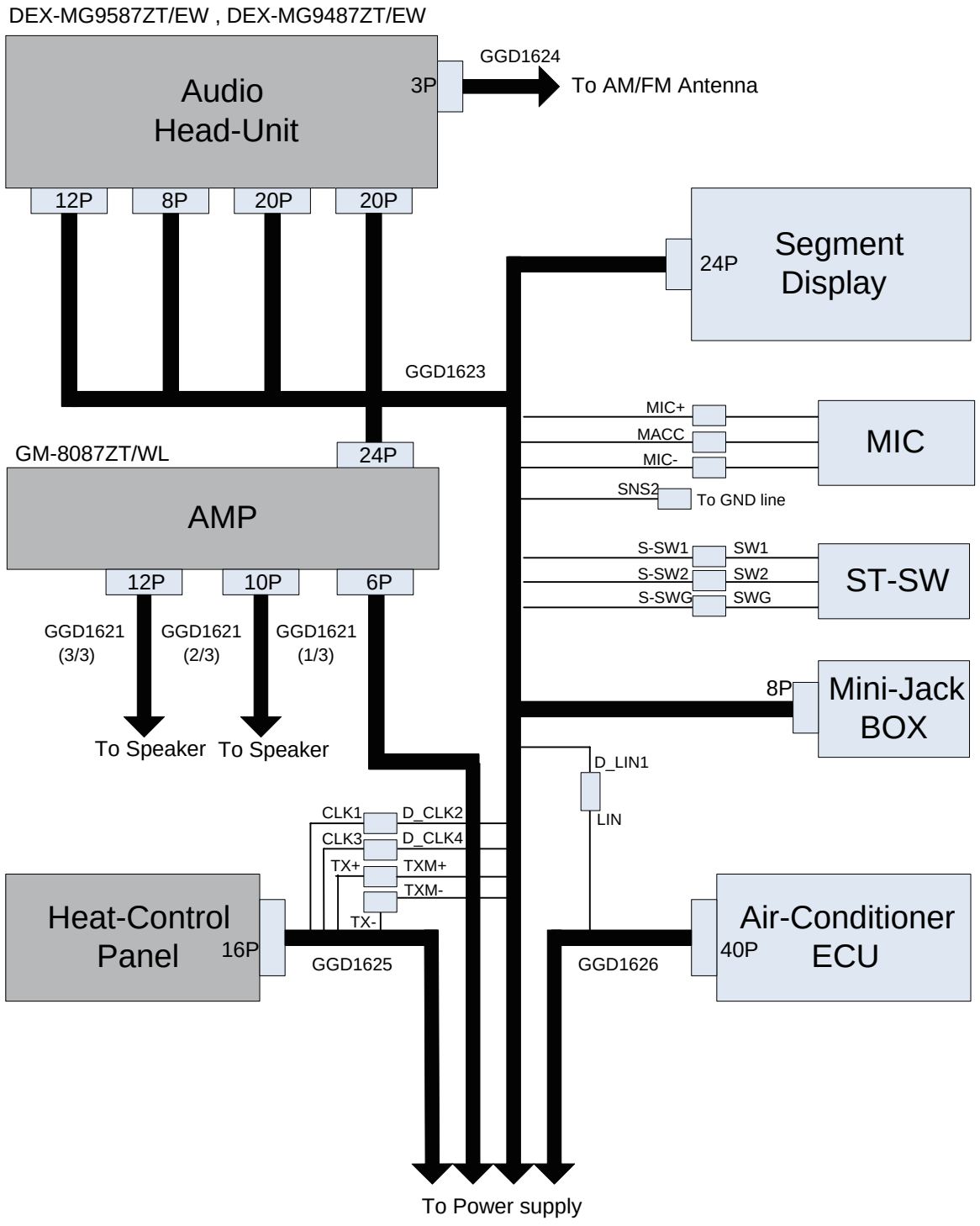




Unit Number : CWN2680
Unit Name : Main Unit
Unit Number : CWN3773
Unit Name : Panel Control Unit
Unit Number : CWN2684
Unit Name : Connector Unit
Unit Number : (MG9487ZT)
Unit Name : Keyboard Unit(Audio Panel PCB(R))
Unit Number : (MG9487ZT)
Unit Name : Keyboard Unit(A/C Panel PCB(R))
Unit Number : CWN3673
Unit Name : Antenna Unit
Unit Number : (MG9587ZT)
Unit Name : Keyboard Unit(Audio Panel PCB(L))
Unit Number : (MG9587ZT)
Unit Name : Keyboard Unit(A/C Panel PCB(L))
Unit Number : CWX3490
Unit Name : Control Unit
Unit Number : CWX3613
Unit Name : PCB Assy

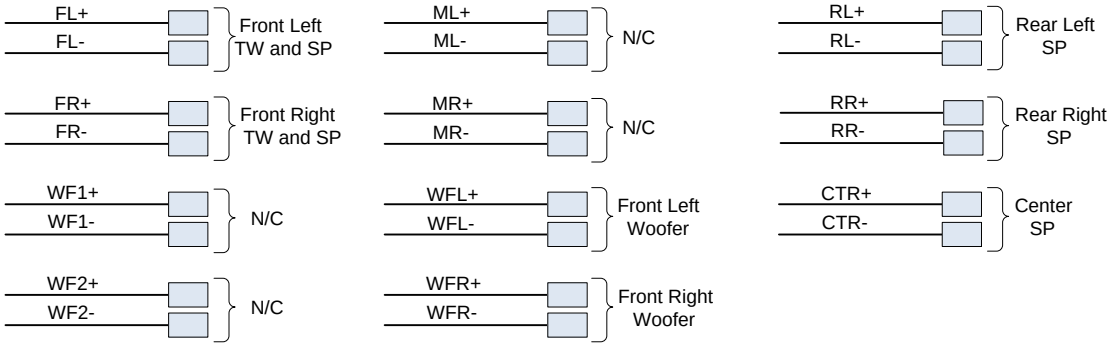
3.3 JIGS LIST

3.3.1Connection Diagram

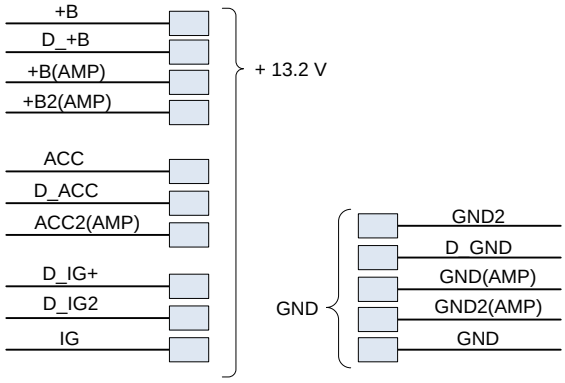


3.3.2 Connection Diagram(terminal)

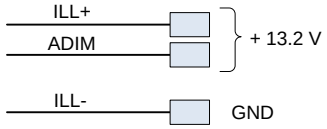
Speaker Terminal



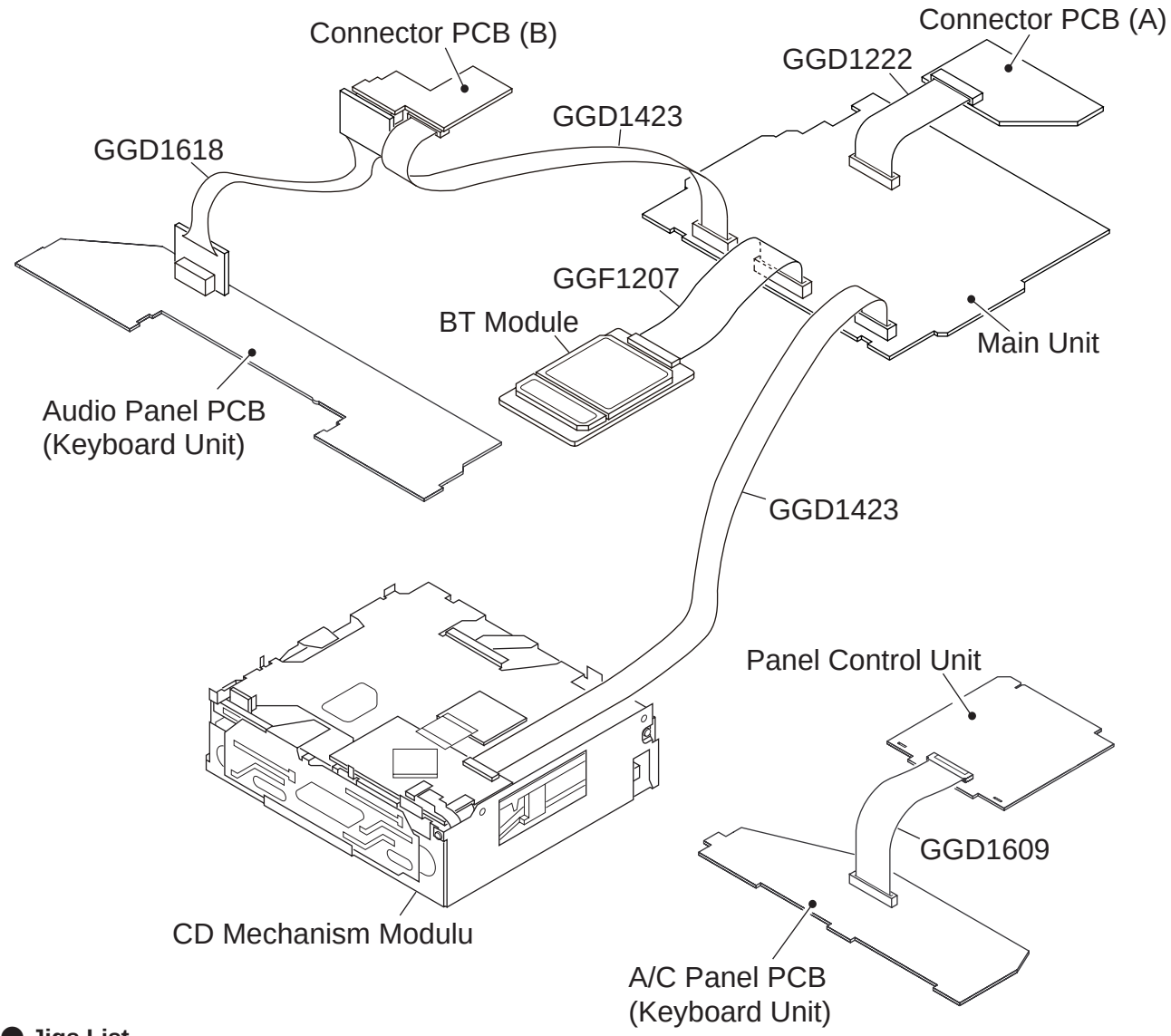
Power Terminal



Illumination Terminal



The Keyboard Unit in this figure is a left-hand drive model.
Although it is mirror image is the left-hand drive and right-hand drive,
connection method and connector number are the same.



● Jigs List

Name	Jig No.	Remarks
Assembly Jig	GGF1538	Assembly Jig for G4 (3pcs)
	GGF1539	Removing the cord assy (BT antenna cable)
30-Pin FFC	GGF1207	Main Unit (CN201) <-->BT Modle
22-Pin FFC	GGF1222	Main Unit (CN302) <--> Connector PCB (A) (CN2001)
18-Pin FFC	GGD1423	Main Unit (CN402) <--> Connector PCB (B) (CN1001)
18-Pin FFC	GGD1423	CD Mechanism Module (CN902) <--> Main Unit (CN401)
50-Pin FFC (0.5 mm pitch) -Gold Plate	GGD1609	Panel Control Unit (CN2802) <--> A/C Panel PCB (CN2501)
18-Pin Extension Cable -Gold Plate	GGD1618	Connector PCB (B) (CN1002) <--> Audio Panel PCB (CN2701)
Syringe	GGK1004	Grille Unit and Plate Unit for grease spreading
Needle of syringe	GGK1011	Grille Unit and Plate Unit for grease spreading
Sample of amount of grease spreading	GGF1561	Grille Unit and Plate Unit for grease spreading
System Harness	GGD1621	for system confirmation
System Harness	GGD1623	for system confirmation
System Cable	GGD1624	for system confirmation
System Cable	GGD1625	for system confirmation
System Cable	GGD1626	for system confirmation

● Grease List

Name	Jig No.	Remarks
Grease	GEM1024	Mechanism Module Unit(SERVICE)
Grease	GEM1048	Grille Unit and Plate Unit

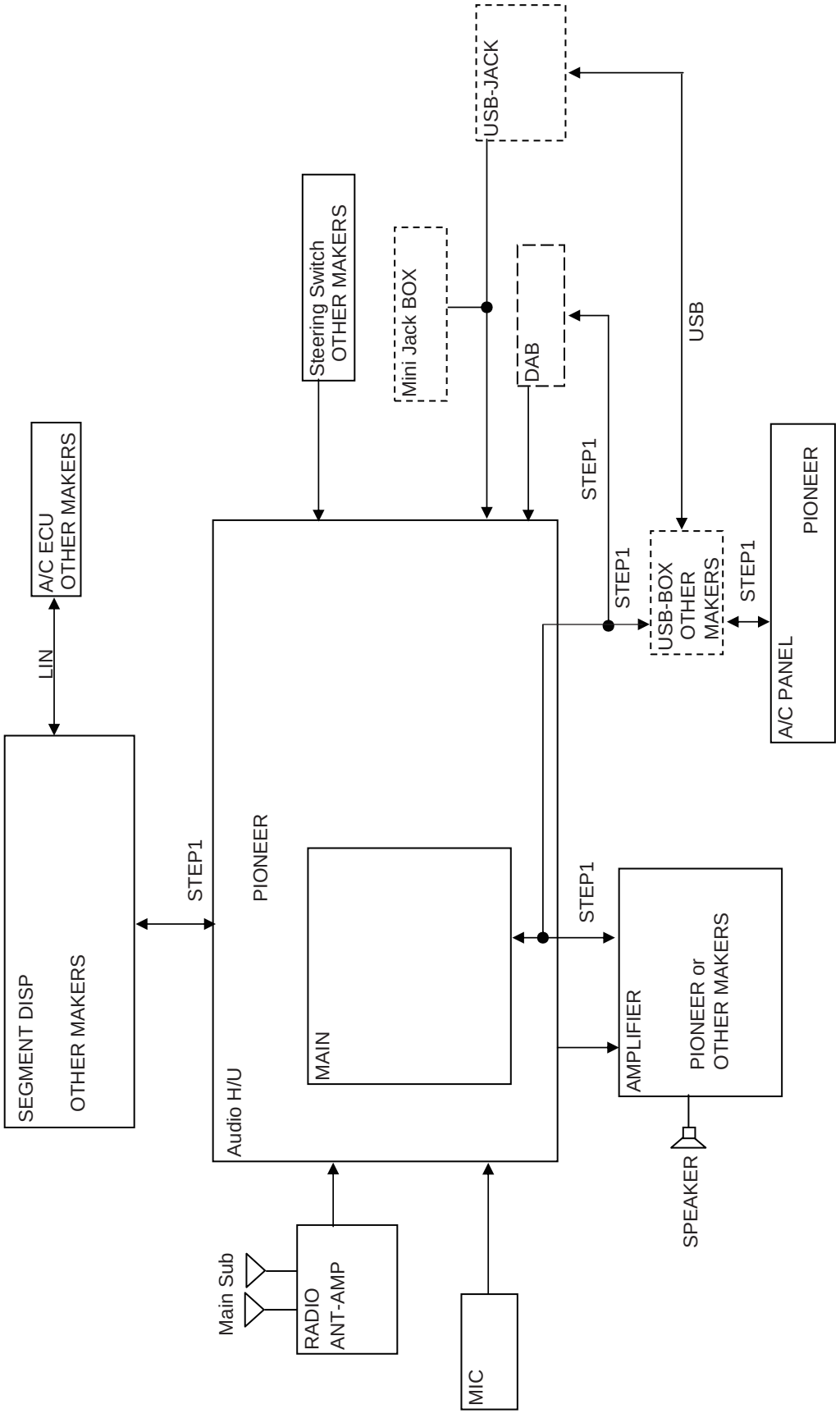
3.4 CLEANING

Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

3.5 SYSTEM BLOCK DIAGRAM



A

B

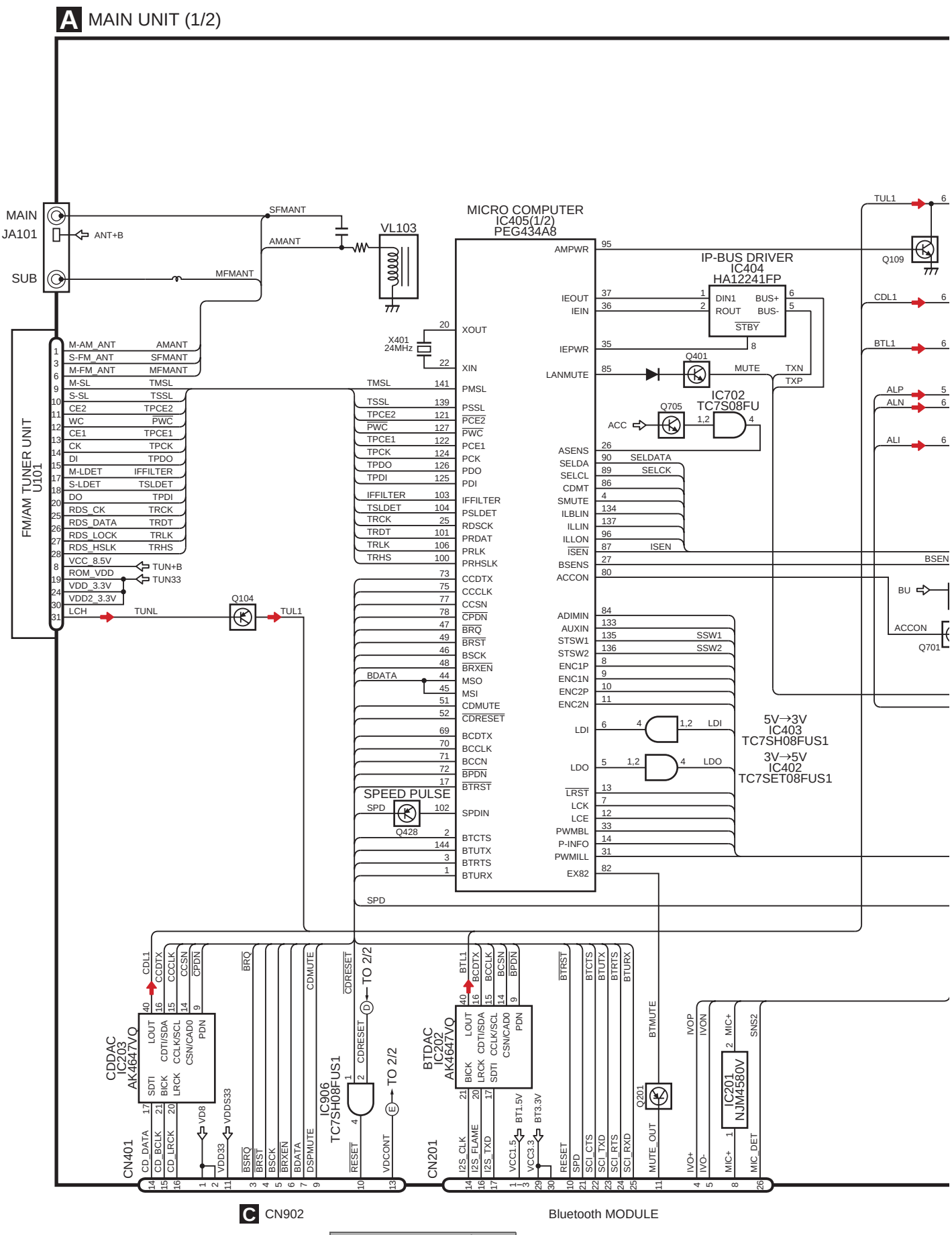
C

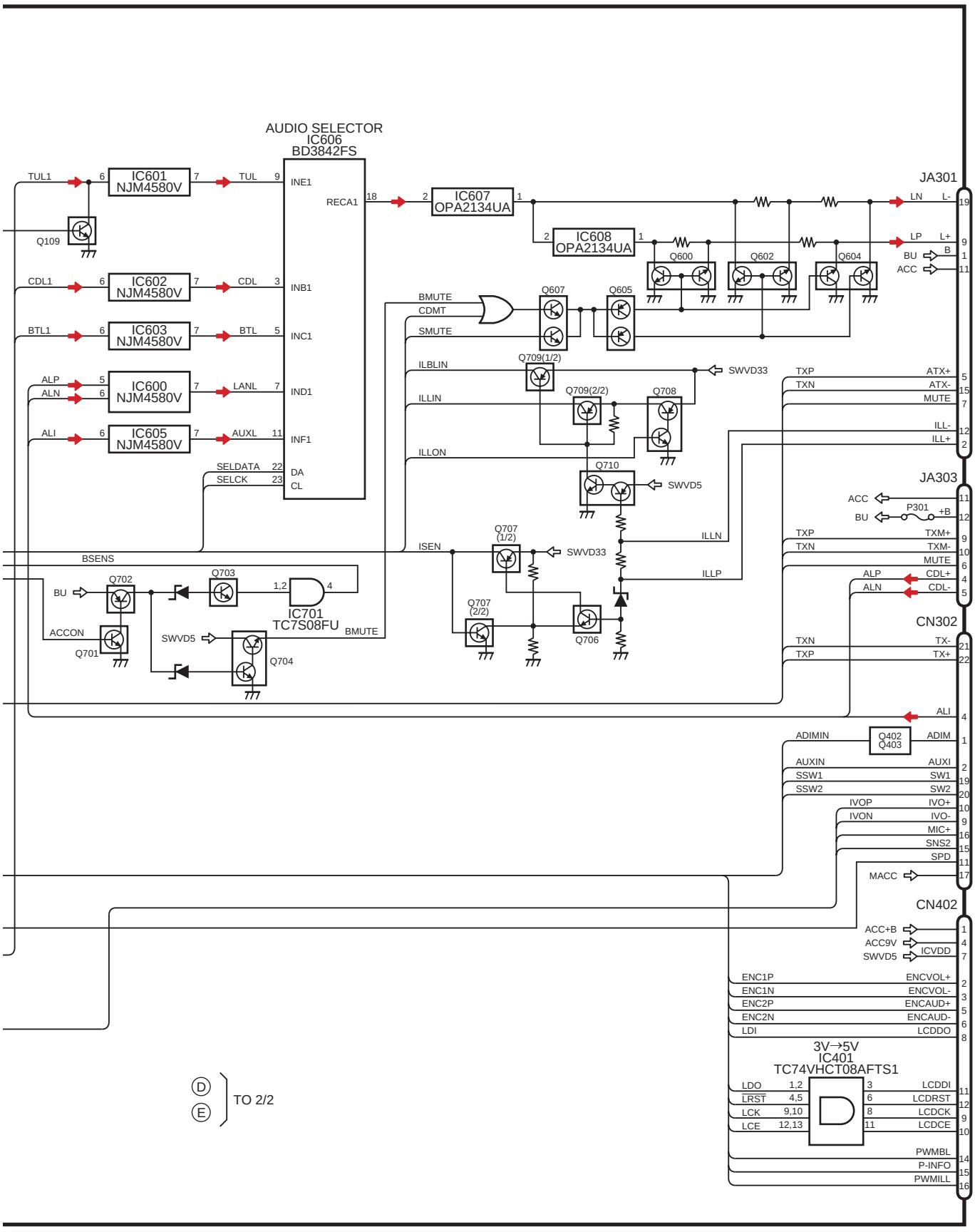
D

E

F

4. BLOCK DIAGRAM




AUDIO SELECTOR
IC606
BD3842FS
IC601
NJM4580V
IC602
NJM4580V
IC603
NJM4580V
IC600
NJM4580V
IC605
NJM4580V
IC607
OPA2134UA
IC608
OPA2134UA
IC701
TC7S08FU
IC401
TC74VHCT08AFTS1
JA301
JA303
CN302
CN2001
CN402
CN1001
TUL1
CDL1
BTL1
ALP
ALN
ALI
TUL
CDL
BTL
LANL
AUXL
INE1
INB1
INC1
IND1
INF1
RECA1
SELDATA
SELCK
DA
CL
Q109
BMUTE
CDMT
SMUTE
ILBLIN
ILLIN
ILLON
ISEN
BSENS
BU
ACCON
SWVD5
SWVD33
Q600
Q602
Q604
Q605
Q607
Q706
Q707 (1/2)
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Q708
Q709(1/2)
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Q701
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ILL+
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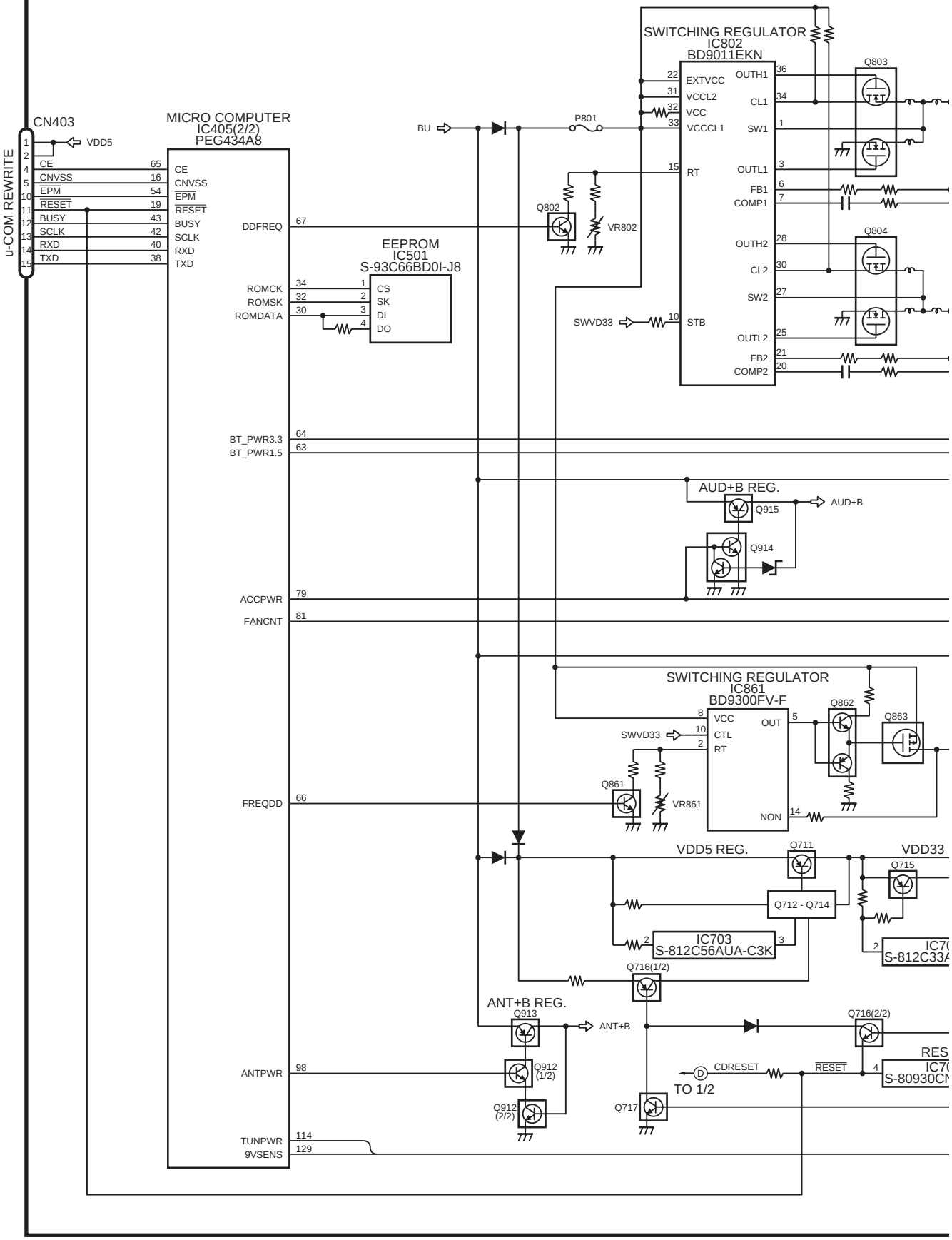
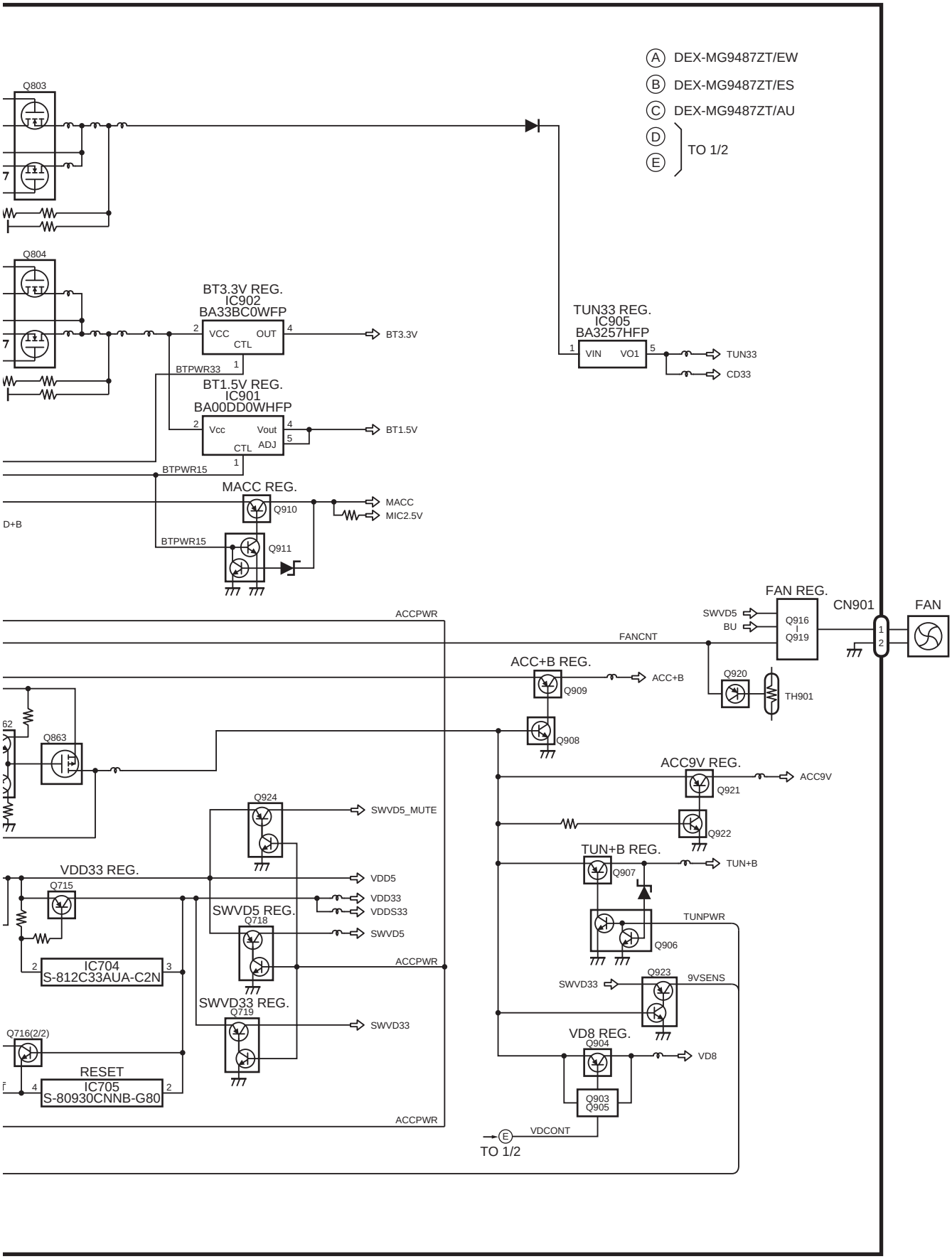
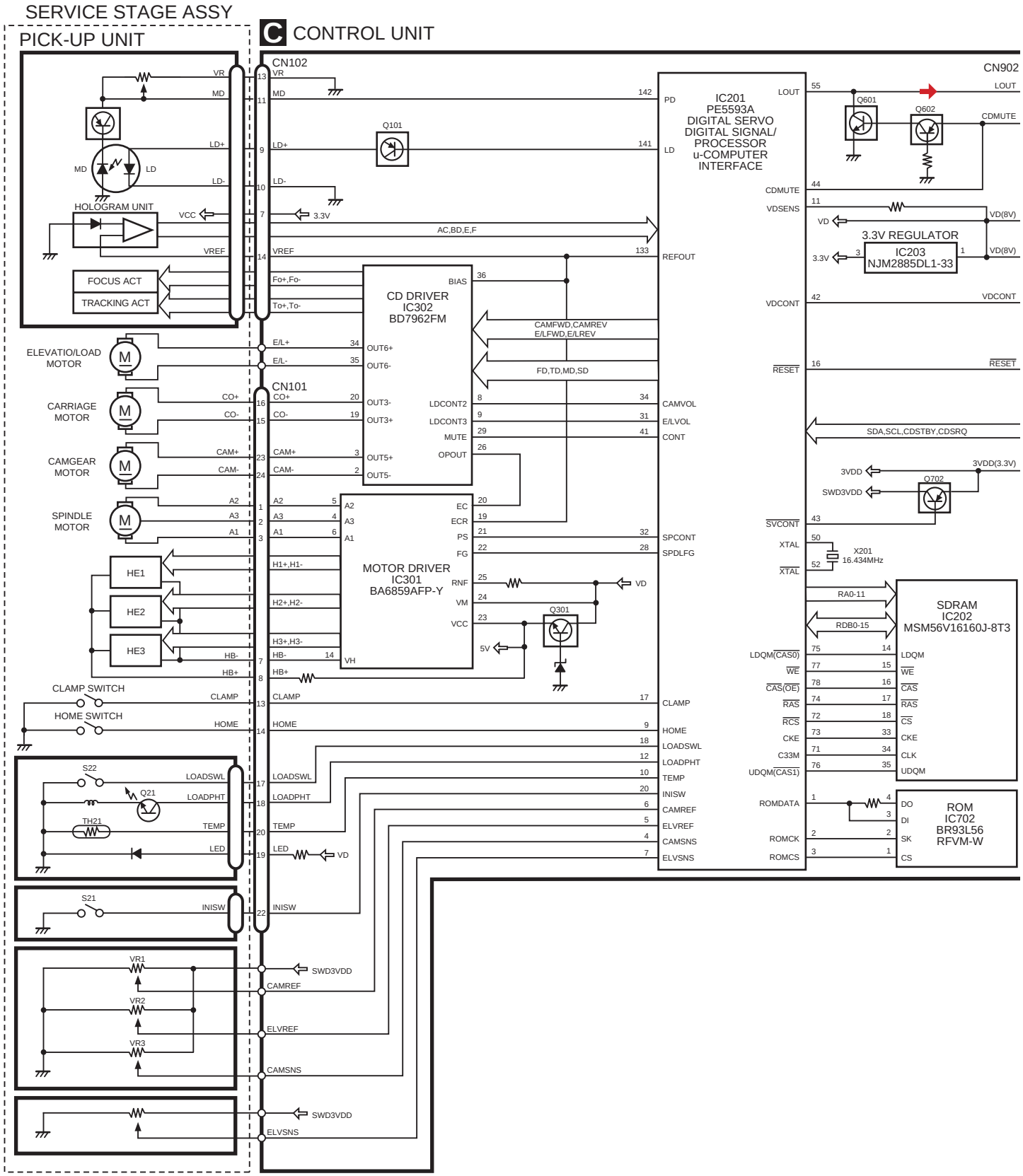
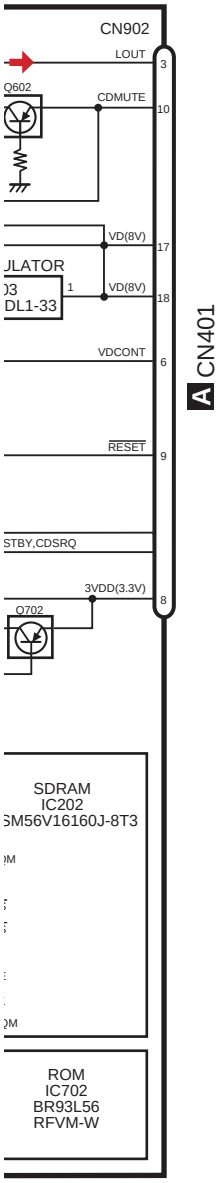
TXM+
TXM-
CDL+
CDL-
TX-
TX+
ALI
ADIMIN
Q402
Q403
ADIM
AUXIN
AUXI
SSW1
SW1
SSW2
SW2
IVOP
IVO+
IVON
IVO-
MIC+
SNS2
SPD
MACC
ACC+B
ACC9V
ICVDD
ENC1P
ENC1N
ENC2P
ENC2N
LDI
ENCVOL+
ENCVOL-
ENCAUD+
ENCAUD-
LCDDO
LDO
LRST
LCK
LCE
LCDDI
LCDRST
LCDCK
LCDCE
PWMBL
P-INFO
PWMILL
TO 2/2

A MAIN UNIT (2/2)

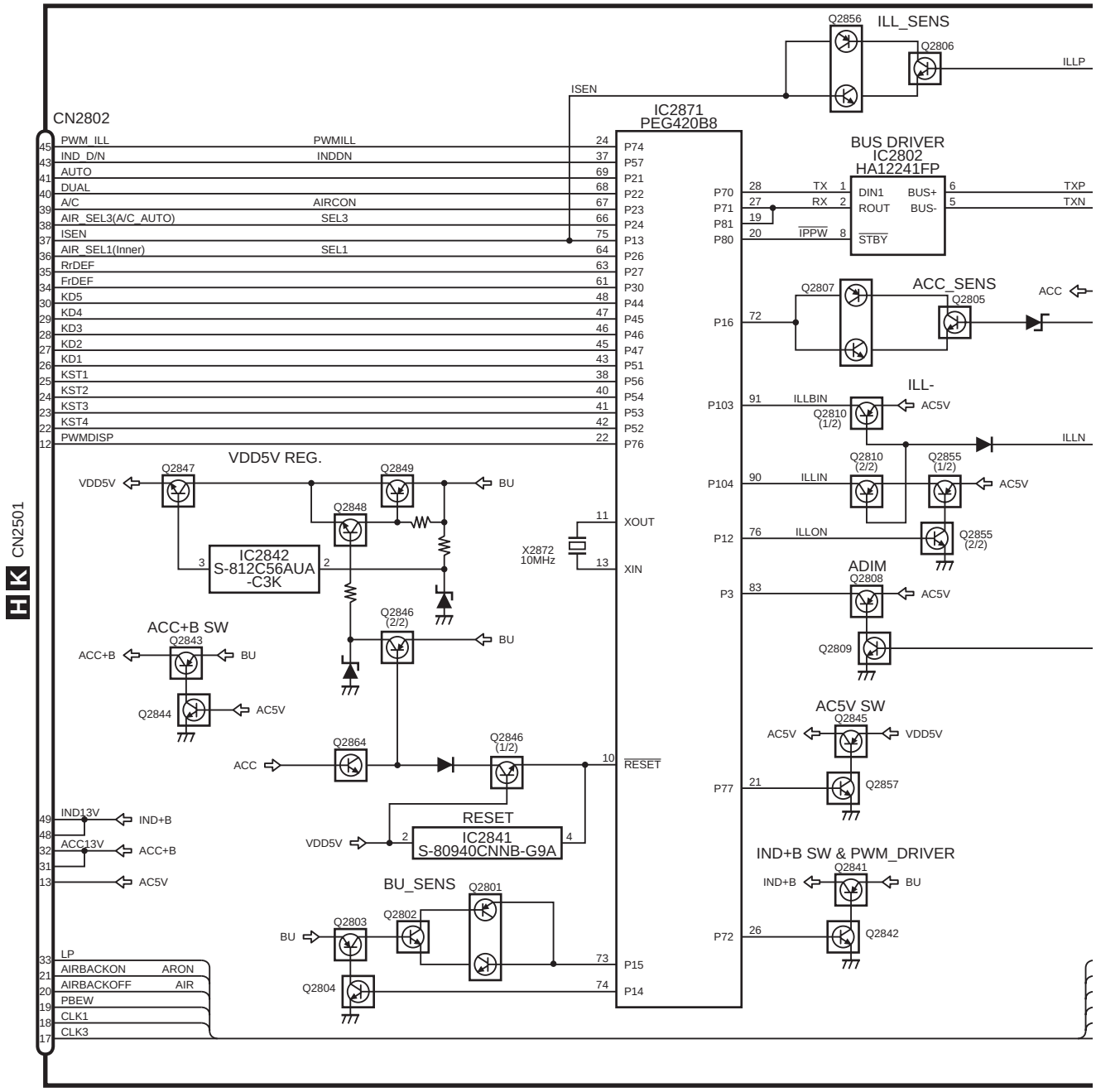



A DEX-MG9487ZT/EW
B DEX-MG9487ZT/ES
C DEX-MG9487ZT/AU
D
E
TO 1/2
Q803
Q804
BT3.3V REG.
IC902
BA33BC0WFP
VCC
CTL
OUT
BT3.3V
BTPWR33
BT1.5V REG.
IC901
BA00DD0WHFP
Vcc
CTL
Vout
ADJ
BT1.5V
BTPWR15
MACC REG.
Q910
MACC
MIC2.5V
Q911
D+B
TUN33 REG.
IC905
BA3257HFP
VIN
VO1
TUN33
CD33
FAN REG.
SWVD5
BU
Q916
Q919
CN901
FAN
FANCNT
ACCPWR
ACC+B REG.
Q909
ACC+B
Q920
TH901
Q908
Q863
ACC9V REG.
Q921
ACC9V
Q922
Q924
SWVD5_MUTE
TUN+B REG.
Q907
TUN+B
TUNPWR
Q906
VDD33 REG.
Q715
VDD5
VDD33
VDDS33
SWVD5 REG.
Q718
SWVD5
IC704
S-812C33AUA-C2N
SWVD33 REG.
Q719
SWVD33
Q923
9VSENS
VD8 REG.
Q904
VD8
Q903
Q905
VDCONT
Q716(2/2)
RESET
IC705
S-80930CNNB-G80

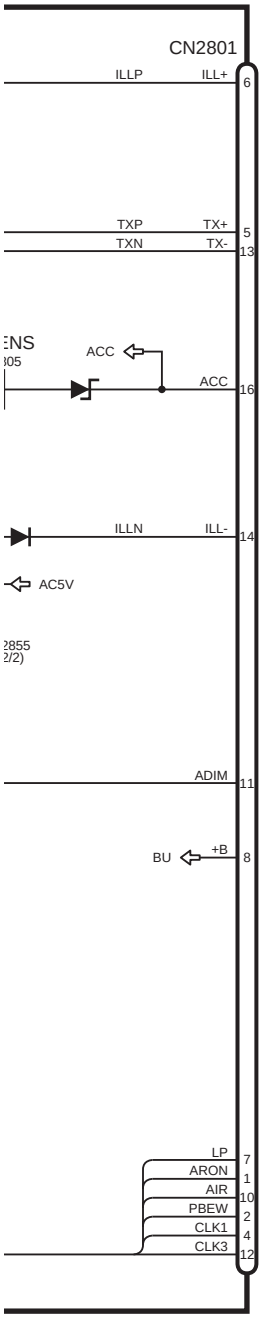

SERVICE STAGE ASSY
PICK-UP UNIT
C CONTROL UNIT
CN102
CN101
CN902
IC201
PE5593A
DIGITAL SERVO
DIGITAL SIGNAL/
PROCESSOR
u-COMPUTER
INTERFACE
CD DRIVER
IC302
BD7962FM
MOTOR DRIVER
IC301
BA6859AFP-Y
3.3V REGULATOR
IC203
NJM2885DL1-33
SDRAM
IC202
MSM56V16160J-8T3
ROM
IC702
BR93L56
RFVM-W
X201
16.434MHz
HOLOGRAM UNIT
FOCUS ACT
TRACKING ACT
ELEVATIO/LOAD MOTOR
CARRIAGE MOTOR
CAMGEAR MOTOR
SPINDLE MOTOR
HE1
HE2
HE3
CLAMP SWITCH
HOME SWITCH
VR
MD
LD
LD+
LD-
VCC
VREF
3.3V
AC,BD,E,F
REFOUT
Fo+,Fo-
To+,To-
BIAS
CAMFWD,CAMREV
E/LFWD,E/LREV
FD,TD,MD,SD
E/L+
E/L-
CO+
CO-
CAM+
CAM-
A2
A3
A1
H1+,H1-
H2+,H2-
H3+,H3-
HB-
HB+
CLAMP
HOME
LOADSWL
LOADPHT
TEMP
LED
INISW
CAMREF
ELVREF
CAMSNS
ELVSNS
SWD3VDD
VD
5V
Q101
Q301
Q601
Q602
Q702
S22
S21
Q21
TH21
VR1
VR2
VR3
LOUT
CDMUTE
VDSENS
VD
VD(8V)
VDCONT
RESET
SDA,SCL,CDSTBY,CDSRQ
3VDD
3VDD(3.3V)
SWD3VDD
SVCONT
XTAL
RA0-11
RDB0-15
LDQM(CAS0)
WE
CAS(OE)
RAS
RCS
CKE
C33M
UDQM(CAS1)
ROMDATA
ROMCK
ROMCS
CAMVOL
E/LVOL
CONT
SPCONT
SPDLFG
LDCONT2
LDCONT3
MUTE
OPOUT
EC
ECR
PS
FG
RNF
VM
VCC
VH

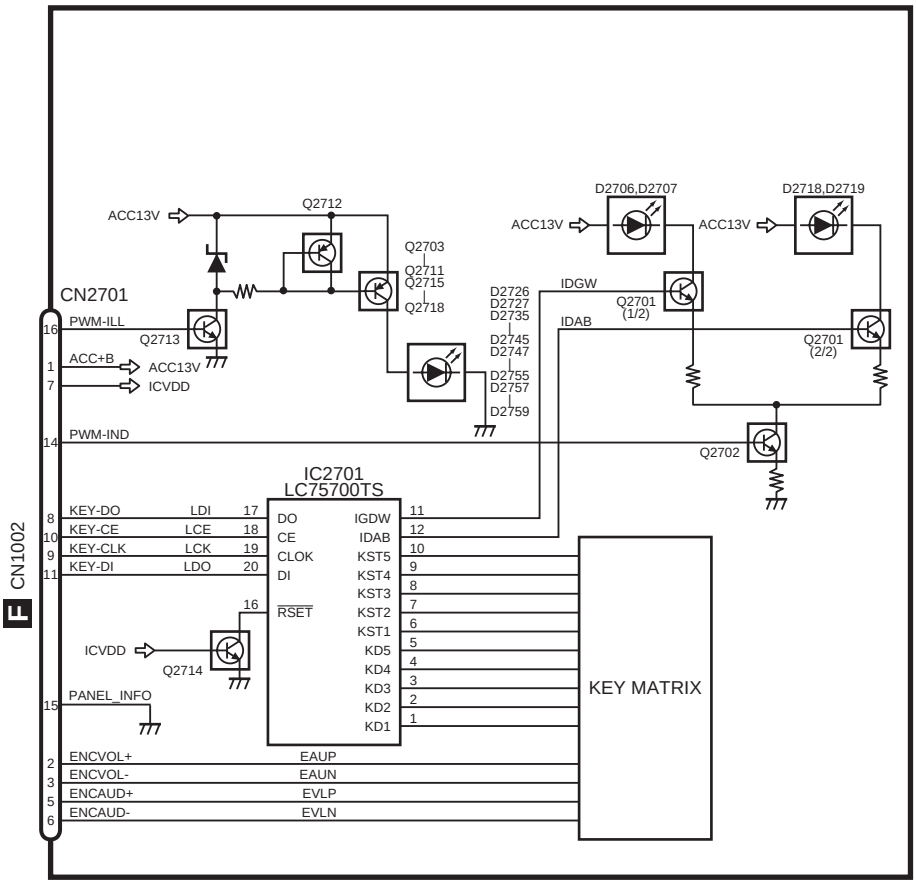

CN902
LOUT
3
Q602
CDMUTE
10
VD(8V)
17
JLATOR
)3
DL1-33
1
VD(8V)
18
VDCONT
6
RESET
9
STBY,CDSRQ
3VDD(3.3V)
8
Q702
SDRAM
IC202
SM56V16160J-8T3
ROM
IC702
BR93L56
RFVM-W
A CN401

B PANEL CONTROL UNIT

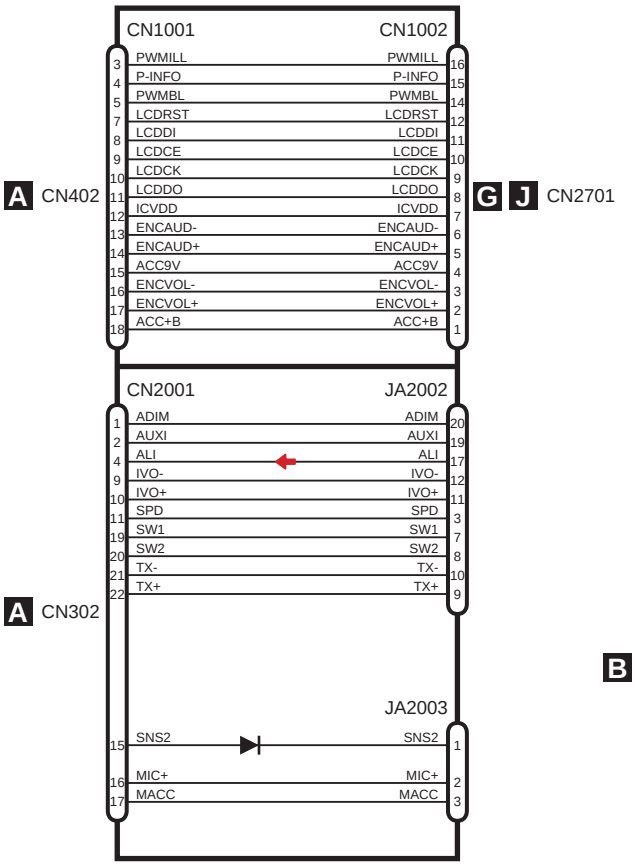


G J KEYBOARD UNIT (AUDIO PANEL PCB (R/L))



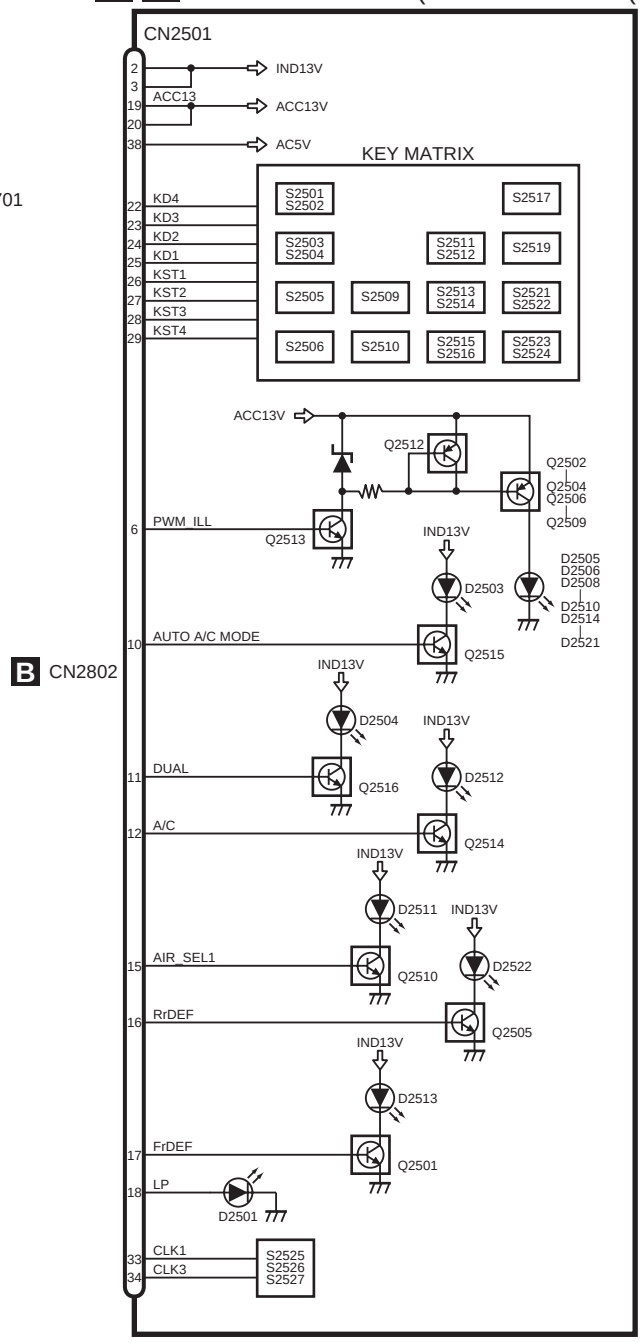


F CONNECTOR PCB (B)



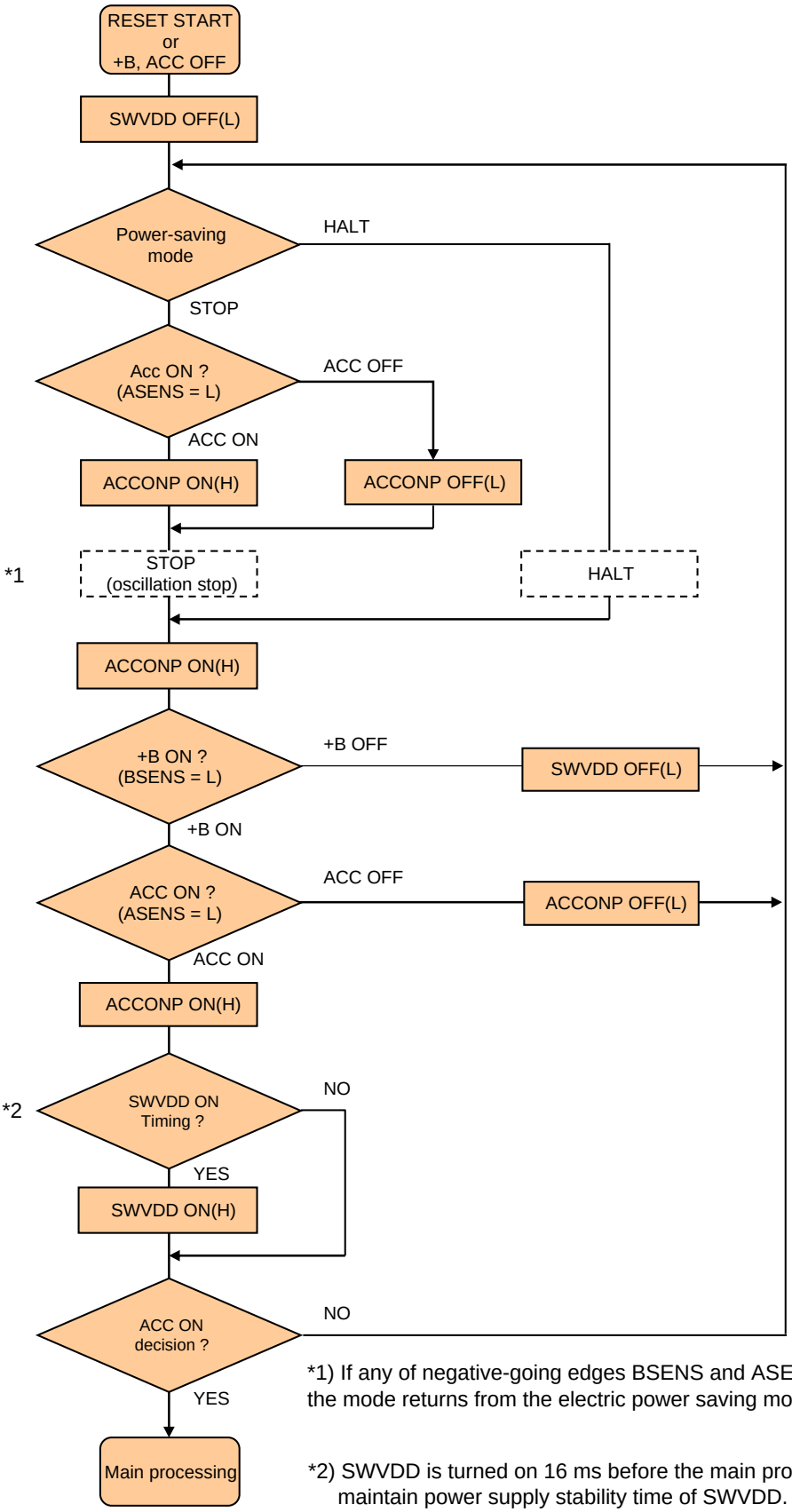
F CONNECTOR PCB (A)

H K KEYBOARD UNIT (A/C PANEL PCB(R/L))



5. DIAGNOSIS

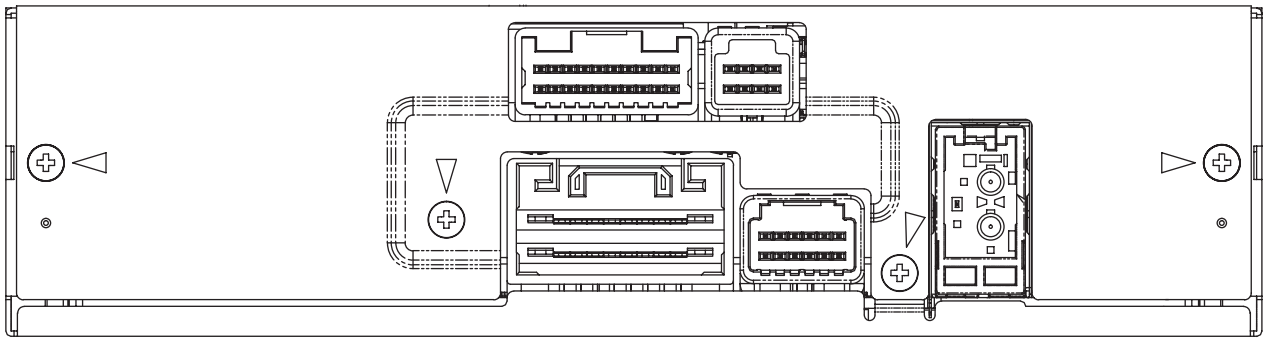
5.1 OPERATIONAL FLOWCHART

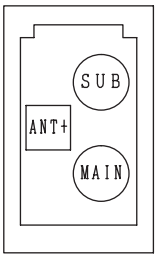


*1) If any of negative-going edges BSENS and ASENS is detected, the mode returns from the electric power saving mode.

*2) SWVDD is turned on 16 ms before the main processing is started to maintain power supply stability time of SWVDD.

5.2 CONNECTOR FUNCTION DESCRIPTION



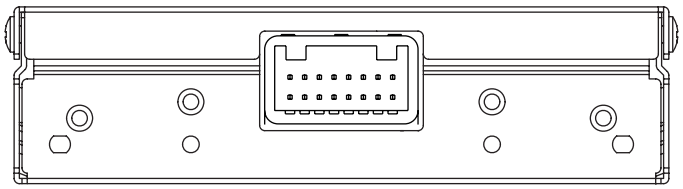


TX-	TX+	SW2	SW1	SWG			SPD			
ADIM	AUXI	AGND	ALI	ASGN	ARI		SLD1	IVO-	IVO+	

	MACC	MIN+	SNS2
		SGND	MIN-

SLD	L+	R+	MUTE		ATX+			ILL+	B
GND	L-	R-			ATX-			ILL-	ACC

(MUTE)	(CDL-)	(CDL+)	(CDR-)	(CDR+)	(CSLD)
(+B)	(ACC)	TXM-	TXM+		(GND)

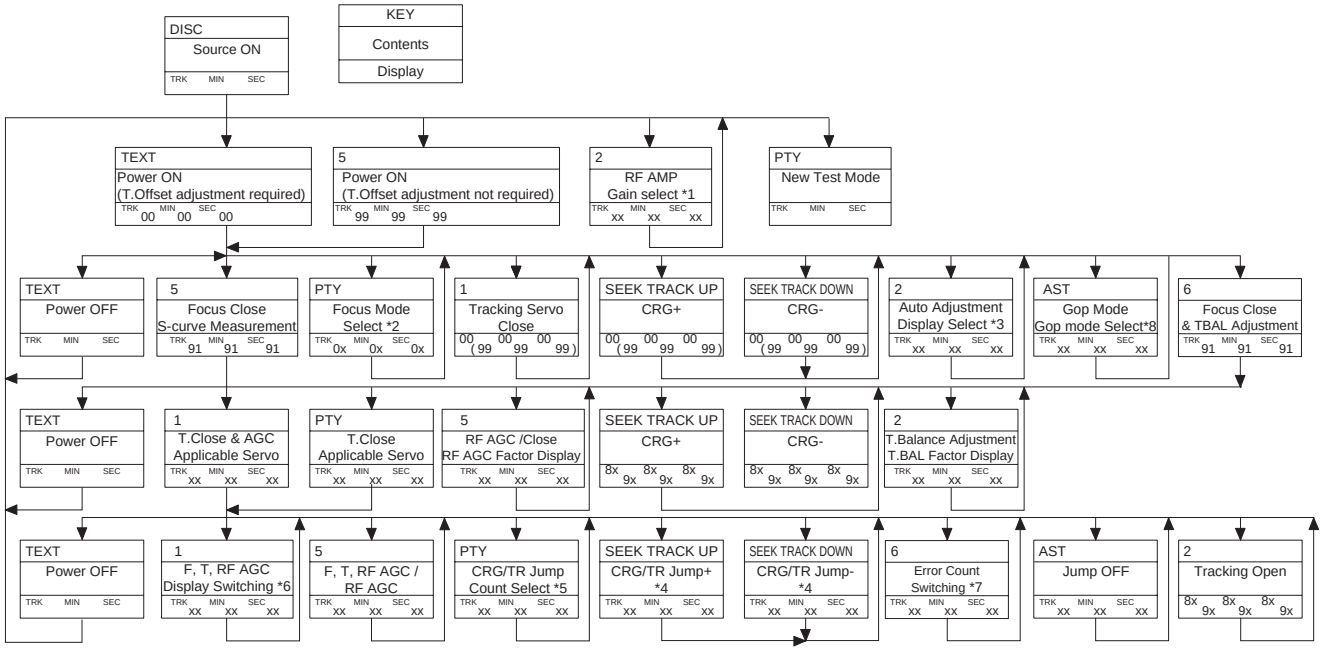


+B	LP	ILL+	TX+	CLK1			
ACC		ILL-	TX-	CLK3	ADIM		GND

6. SERVICE MODE
6.1 G4 SERVO TEST MODE

Note) If G4 SERVO TEST MODE is used, it is necessary to replace the panel with the one with display shown below.
"CXC4733:(FX-MG8667DVZT/EW)","CKS6054"
Be sure to replace CN802 of CXC4733 with "CKS6054".
1. Hold [1] button and [6] button and press [DISC] button three times.
   Display : Light the all FL.
2. Press [DISC] button and [SEEK•TRACK UP] button.
   Display : PBUS TEST
3. Press [DISC] button for two or more seconds continuously.
4. If the source is not CD, press [DISC] button.

G4 Servo Test Mode Flow Chart



*1) TYP -> -6 dB -> -12 dB

*2) Focus Close -> S.Curve -> F EQ measurement setting

*3) F.Offset Display -> RF.Offset Display -> F.cancel display -> Original display

*4) 1TR /4TR / 10TR / 32TR / 100TR/ CRG

*5) Single TR -> 4 TR -> 10 TR -> 32 TR -> 100 TR -> CRG Move (Speed control)
9X(8X):91(81) 92(82) 93(83) 94(84) 95(85) 96(86)

*6) TRK/MIN/SEC -> F.AGC Gain -> T.AGC Gain -> RF AGC Gain

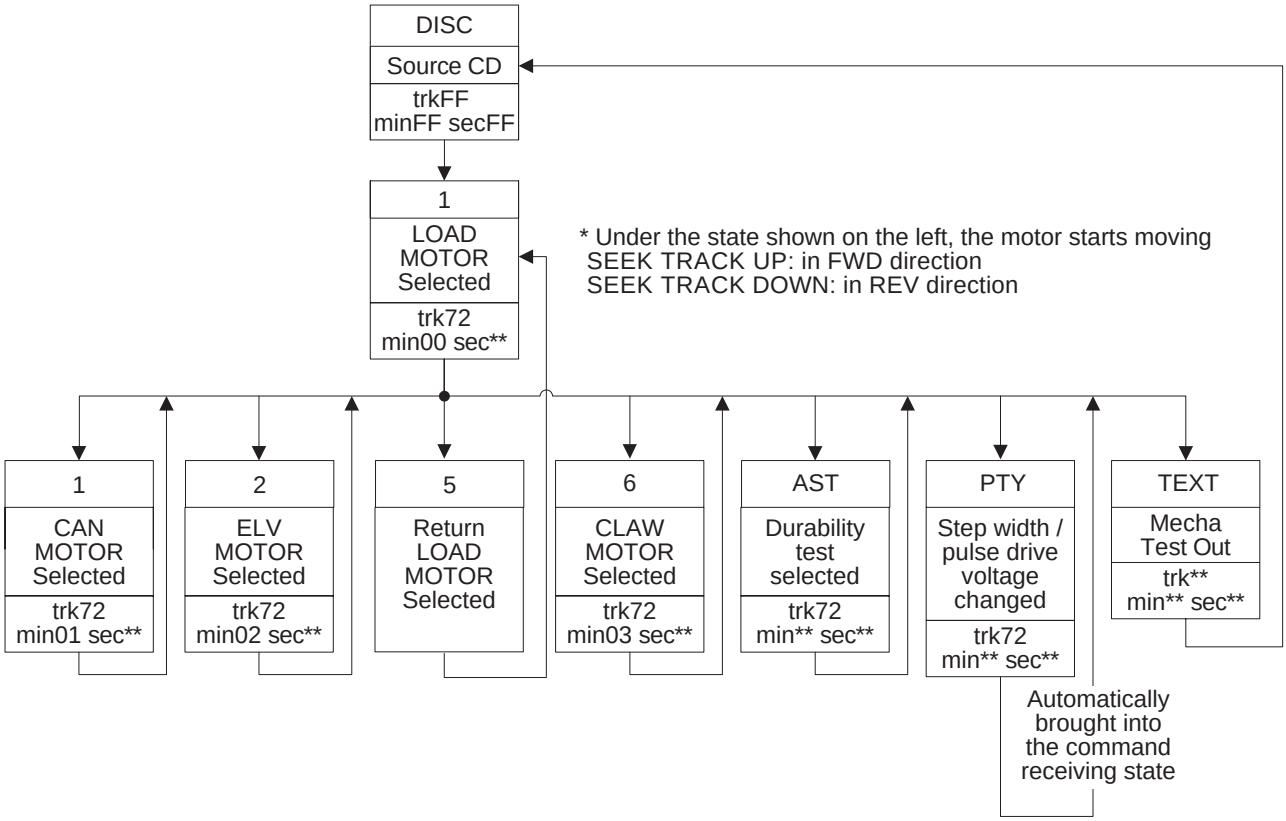
*7) TRK/MIN/SEC -> S.Curve -> C1 error count -> C2 error count
TRK = 0 (Completion of measurement)
TRK >0 (Between measurement)

*8) OFF(TYP) -> FOCUS -> TRACKING

Key	Operation
	Test Mode
TEXT	Power ON/OFF
SEEK TRACK UP	CRG+ / TR Jump+ (Toward outer perimeter)
SEEK TRACK DOWN	CRG-/TR Jump- (Toward inner perimeter)
1	T.CLS & AGC & Applicable servo / AGC, AGC display switching
2	RF gain select / Offset adjustment display / T.Balance adjustment / T.Open
5	F.Close, S.Curve /Rough Servo & RF AGC / F, T, RF AGC
6	Error occurrence time Start of Measurement (30 s) / Interruption of Measurement (max. 30 s) / Display of numbers of C1 & C2 errors (after completion of measurement)
AST	Jump OFF
PTY	Focus Mode Select / Tracking Close / CRG, TR Jump Select

After pressing the eject key, do not press any other key than [Eject] key, till the disc is ejected.
TR Jump operations except for 100TR Jump continues even after you release the relevant key.
For CRG Move and 100 TR Jump operations, the system goes to the Tracking-Close status, when you release the relevant key.
Upon turning the power Off/ON, the Jump Mode is reset to Single TR(91), and RF AMP Gain setting is reset to 0 dB, while the automatic adjusted values goes back to the initial values.
If you are in the middle of measurement, the measurement is terminated.

G4 Mecha Test Mode



2. Manual test

1. Select a motor to drive with “1”, “2”, “5”, “6”keys.
2. Select an action mode with “1”, “2”, “5”motor select keys.
3. Pressing SEEK TRACK UP/SEEK TRACK DOWN key, the selected motor will work in the selected mode.

2.1 “1”key to select CAM motor

“SEEK TRACK UP”key: in the direction of CamPlay position
“SEEK TRACK DOWN”key: in the direction of CamEject position
“1”key: selection among the following action modes

0: continuous action (voltage = H) * default
1: continuous action (voltage = L)
2: step drive (the same as normal action)
3: pulse drive (8ms) * A press of “TEXT/FOLDER UP” key will output only 1 pulse.
4: pulse drive (16ms) * A press and hold for 2 seconds or longer will bring continuous pulse drive.
5: pulse drive (24ms) *
6: pulse drive (32ms) *

“PTY”key: << at step drive setting >>
Selection of the step width of the step drive as described above
0: normal step action * default

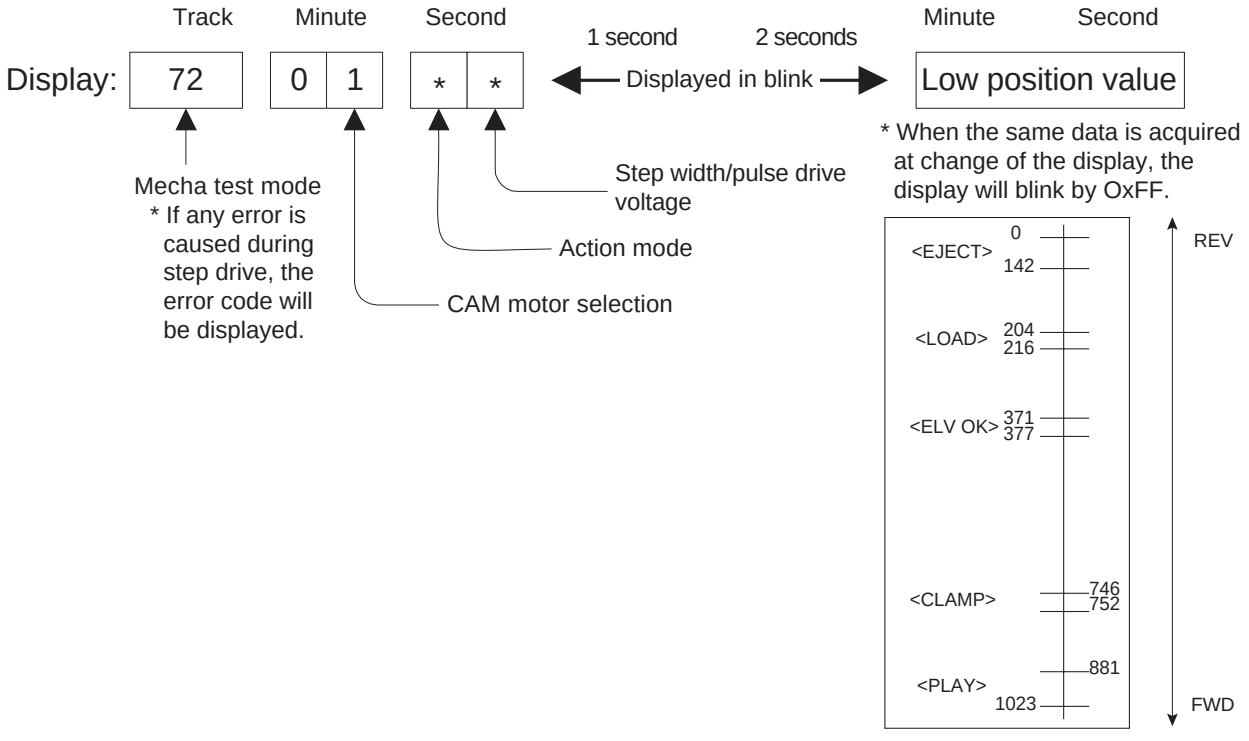
Common between G4 and MG5:
EJECT ◀▶ LOAD ◀▶ ELVOK ◀▶ CLAMP ◀▶ PLAY

1: stop at each position (except at SHUTTER CLOSE position)

Common between G4 and MG5:
EJECT ◀▶ LOAD ◀▶ ELVOK ◀▶ INIT ◀▶ SPDLARM ◀▶ CLAMP ◀▶ PLAY

<< At pulse drive setting >>
Selection of action voltage of the pulse drive as described above
0: voltage = H * default
1: voltage = L

Note) “PTY”key is invalid at continuous action setting. When the mode is changed, the setting for “PTY” key will take on the default.



2.2 “2”key to select ELV motor

“SEEK TRACK UP”key: in UP direction
“SEEK TRACK DOWN”key: in DOWN direction
“2”key: selection among the following action modes

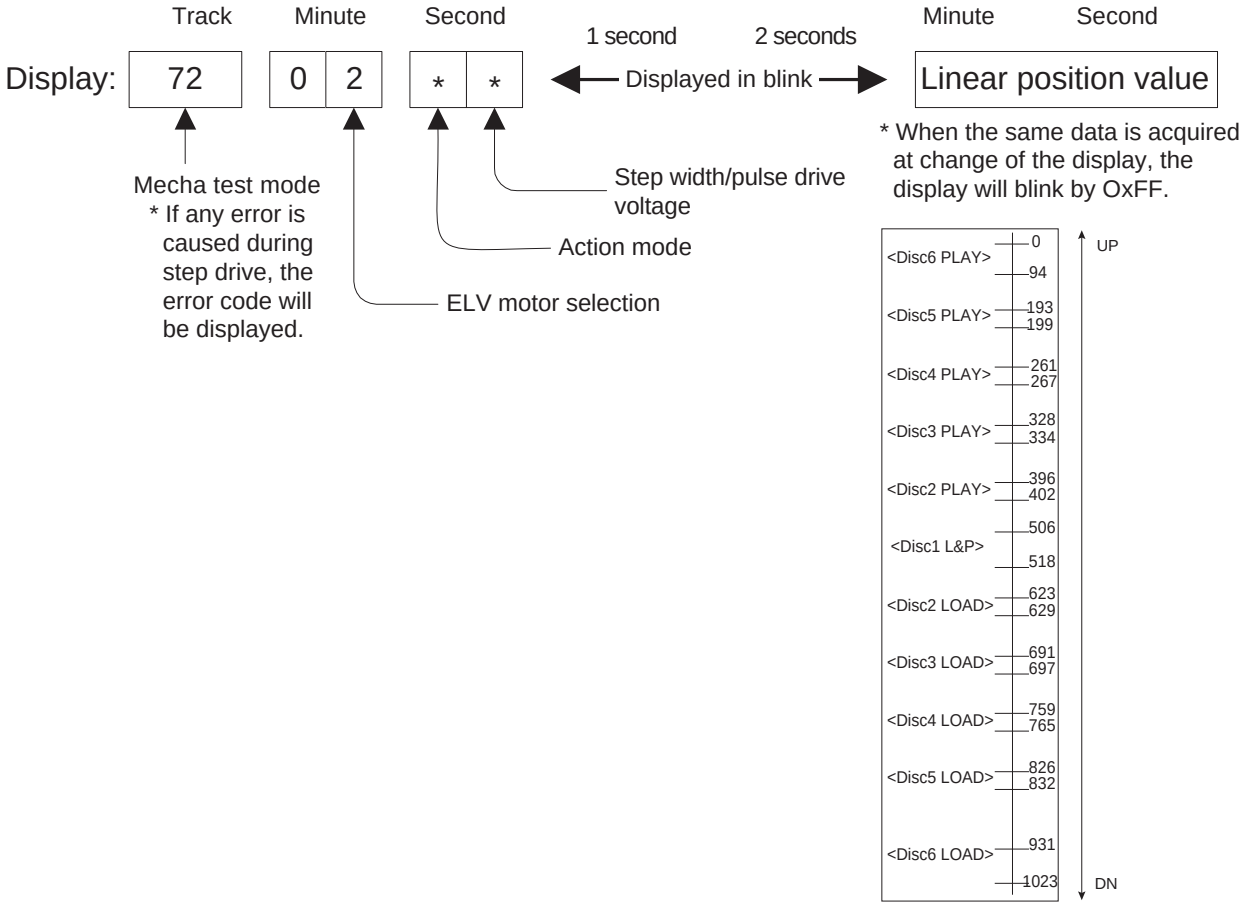
0: continuous action (voltage = H) * default
1: continuous action (voltage = L)
2: step drive (the same as normal action)
3: pulse drive (8ms) * A press of “SEEK TRACK UP/SEEK TRACK DOWN” key will output only 1 pulse.
4: pulse drive (16ms) * A press and hold for 2 seconds or longer will bring continuous pulse drive.
5: pulse drive (24ms) *
6: pulse drive (32ms) *

“PTY”key: << at step drive setting >>

Selection of the step width of the step drive as described above
0: normal step action *default
1: action to the next position of one
2: action to the next position of two
3: action to the next position of three
4: action to the next position of four
5: action to the next position of five
6: action to the next position of six
7: action to the next position of seven
8: action to the next position of eight
9: action to the next position of nine

<< At pulse drive setting >>
Selection of action voltage of the pulse drive as described above
0: voltage = H * default
1: voltage = L

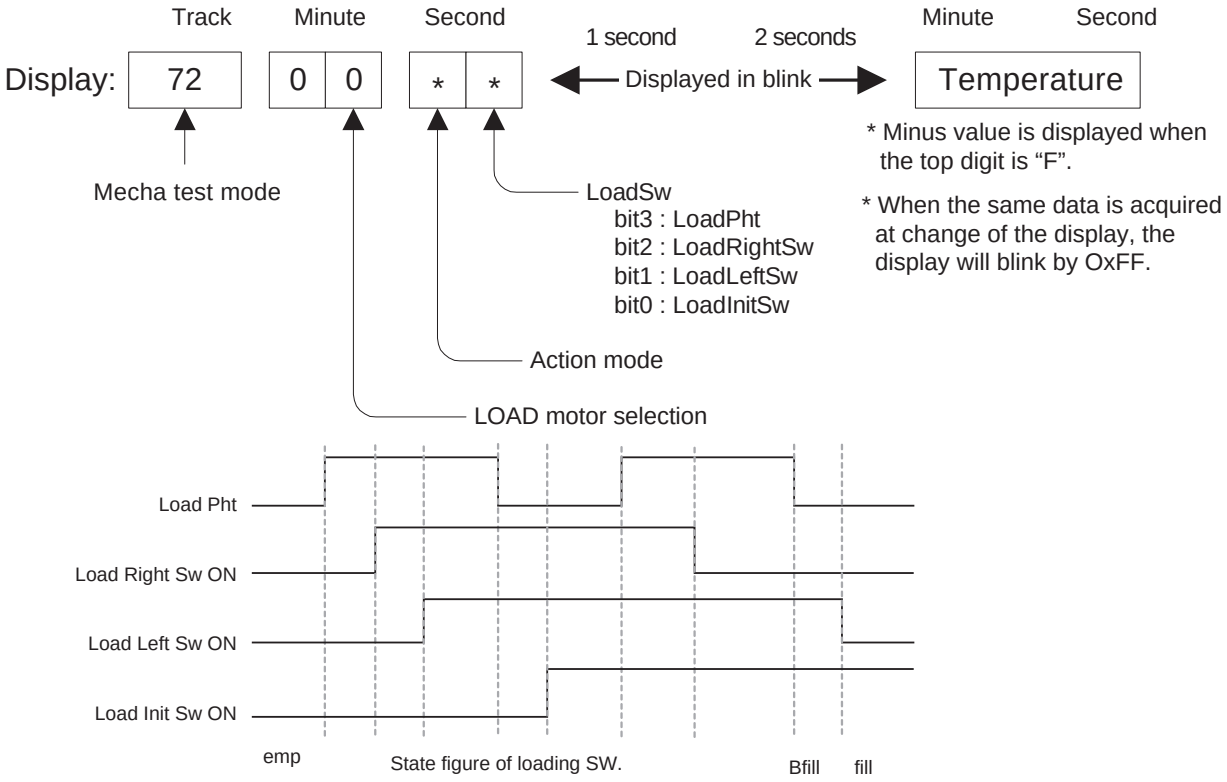
Note) “PTY”key is invalid at continuous action setting. When the mode is changed, the setting for “PTY” key will take on the default.



2.3 “5”key to select LOAD motor (default)

“SEEK TRACK UP”key: Load
“SEEK TRACK DOWN”key: Eject
“5”key: selection among the following action modes

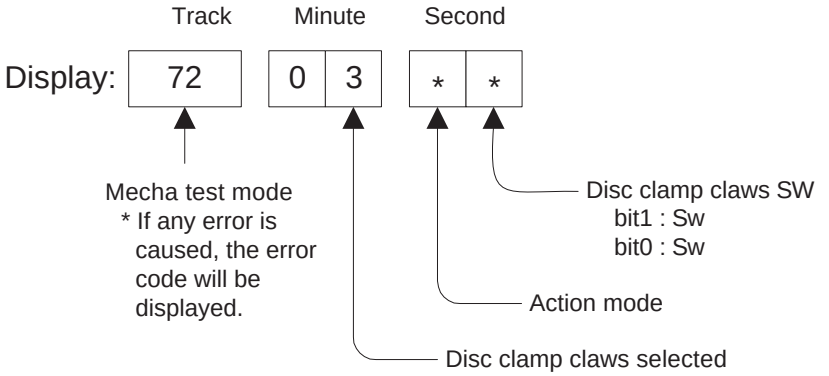
0: continuous action (voltage = H) * default
1: continuous action (voltage = L)
2: Step drive (action until SW is changed)
3: pulse drive (8ms) *
4: pulse drive (16ms) *
5: pulse drive (24ms) *
6: pulse drive (32ms) *



2.4 “6”key to select Disc clamp claws

* Attention: Since Disc clamp claws is controlled by servo in reality, the state of SW is uncertain in the mecha test. Disc clamp claws should be tested in servo test.

“SEEK TRACK DOWN”key: Disc clamp claws is opened.
“SEEK TRACK UP”key: Disc clamp claws is closed.
“6”key: selection among the following action modes



3. Durability test

A press of “AST” key will bring each durability test mode.
A press of “1” or “2” or “5” or “6” keys will cancel the test.

3.1 LOAD/EJECT durability test (LOAD completed <—> EJECT completed)

At the position of LOAD/EJECT durability test (see the separate sheet), press “AST” key and insert the Disc.

3.2 Cam durabilit test (ELV OK position <—> PLAY position)

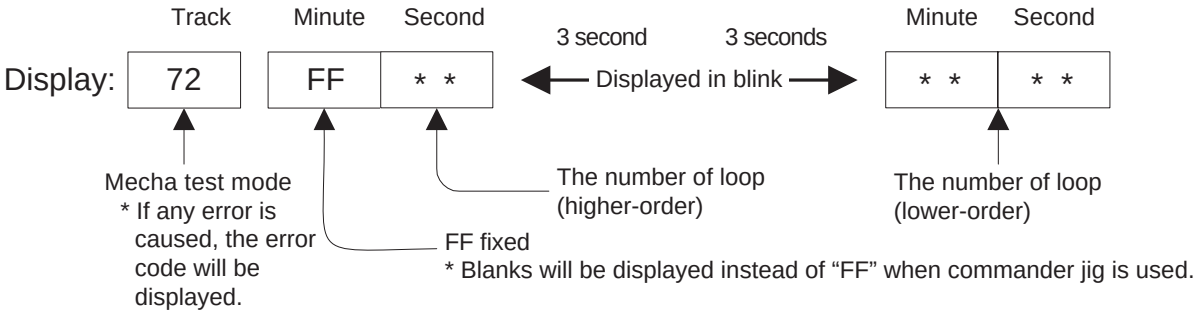
At the position of cam durability test (see the separate sheet), press “AST” key.

3.3 ELV durability test (DISC6 LOAD position <—> DISC6 PLAY position)

At the position of ELV durability test (see the separate sheet), press “AST” key.

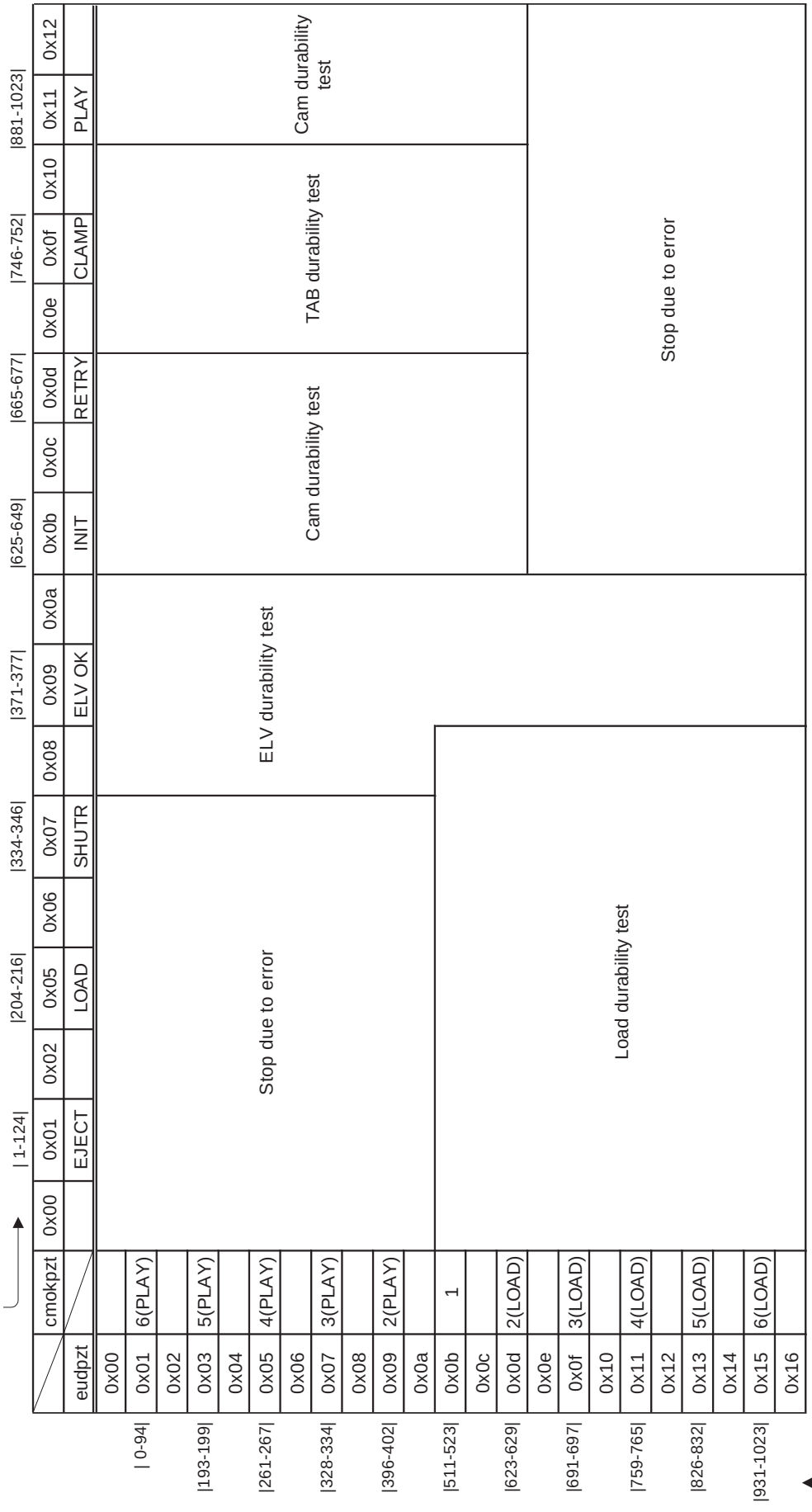
3.4 Disc clamp claws durability test (DSKFREE <—> DSKLOCK)

At the position of Disc clamp claws durability test (see the separate sheet), press “AST” key.



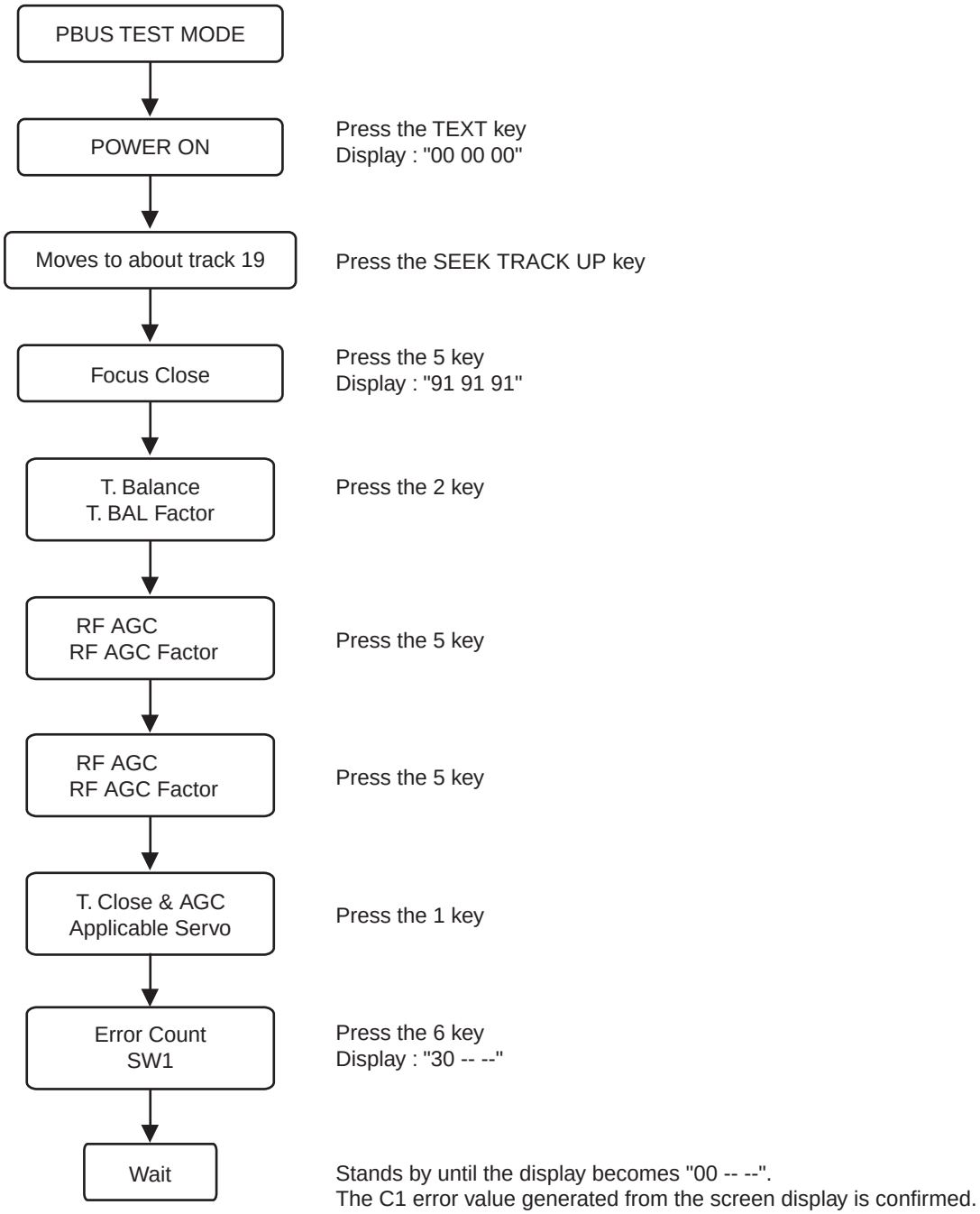
4. Correspondence table of durability test start position

After moving each value to the following position by CAM motor manual test or ELV motor manual test, each durability test will be started by sending AST to the mecha.



6.2 METHOD OF MEASURING ERROR RATE

The error rate is measured by using the static test mode installed in the product.
Please executes the following procedure.



The thing that the C1 error occurs 1115 times is shown when displayed as "11 15".

- Disc used : TCD-782 (Thing without wound and dirty)
- Measurement point : Point of TRACK19 (Watching)
- Threshold : 600 or less (C1 error value)

6.3 HOW TO CHECK THE EQUIPMENT VERSION

It can be displayed on the panel (CXC4733+CKS6054) and Segment Display.
1. Hold [1] button and [6] button and press [DISC] button three times.
2. Hold [2] button and [5] button and press [SEEK TRACK DOWN] button three times.
3. Select (VER_DISP) by [SEEK TRACK UP] button and press [2] button.
4. Check the version of the connected equipment by pressing [SEEK TRACK UP] button.
Example: HU 435A717

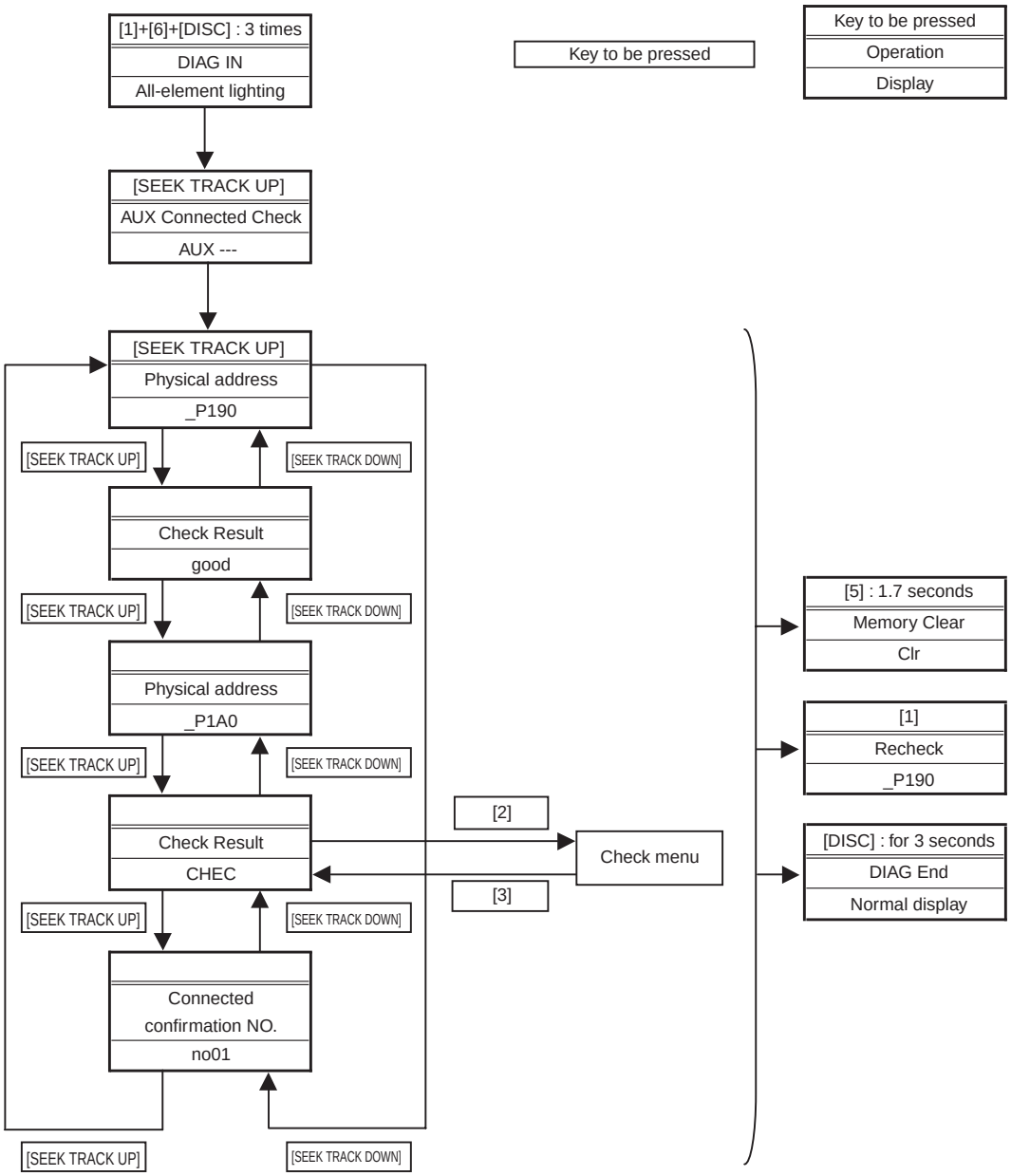
435: PD version
A: Sub number
717: Software version

HU CWW1473
CWW1473:CWW number

If there is no response of connection, "---" is displayed

6.4 AVC-LAN DIAGNOSIS MODE

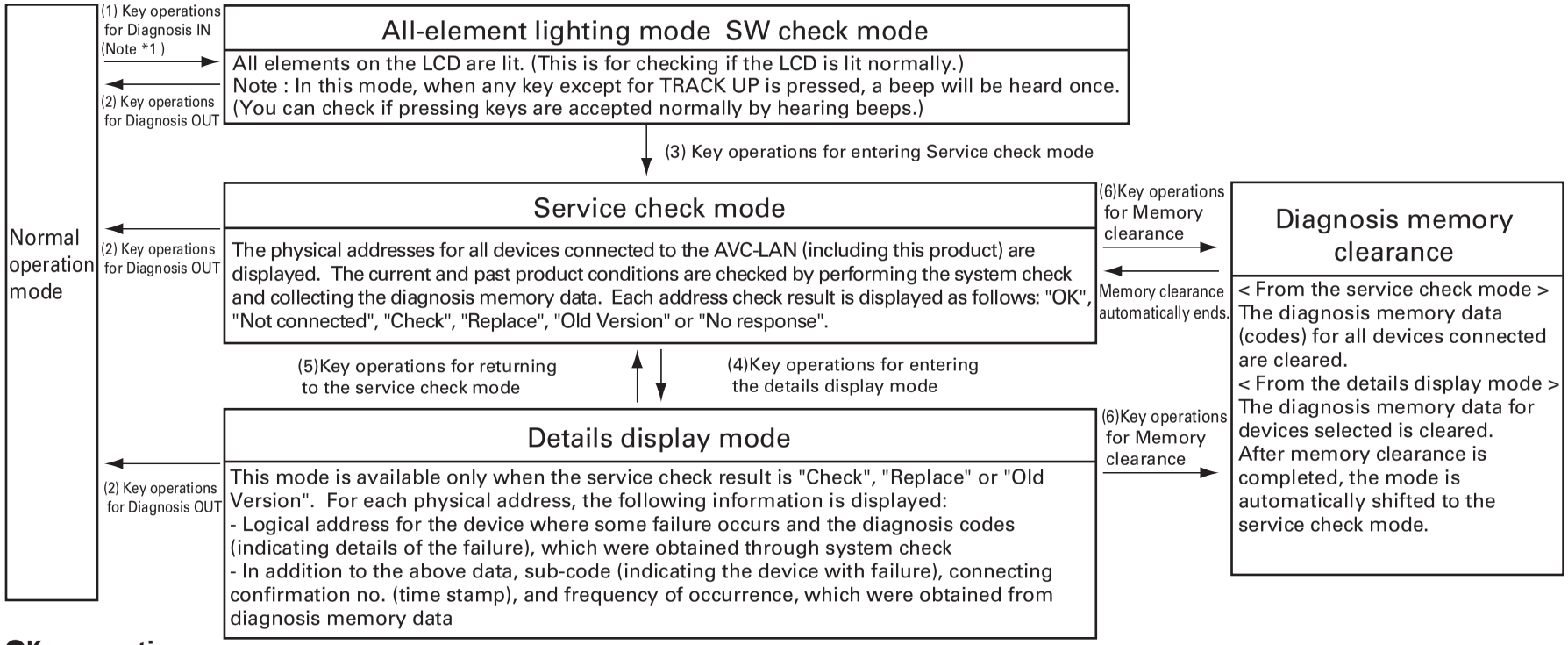
It is possible to display it with Segment Display.



Key operations

(1) Diagnosis IN With three times of beep sound, the mode change operation completes.	While pressing the CH1 and CH6 buttons simultaneously, press the DISC button three times.
(2) Diagnosis OUT	Keep the DISC button pressed for 1.7 seconds or more and turn the ACC switch OFF.
(3) Entering the Service check mode. With a beep sound, the mode change completes.	Press the TUNE UP button.
(4) Entering the Derails display mode.	Press the CH2 button.
(5) Returning to the service check mode.	Press the CH3 button.
(6)Clearing the Memory data	Keep the CH5 button pressed for 1.7 seconds or more.
Change the display (forward)	Press the TUNE-UP button.
Change the display (backward)	Press the TUNE-DOWN button.

●Operations and functions



●Key operations

(1) Diagnosis IN With three times of beep sound, the mode change operation completes.	While pressing the CH1 and CH6 buttons simultaneously, press the DISC button three times.
(2) Diagnosis OUT	Keep the DISC button pressed for 1.7 seconds or more and turn the ACC switch OFF.
(3) Entering the Service check mode. With a beep sound, the mode change completes.	Press the SEEK TRACK UP button.
(4) Entering the Details display mode.	Press the CH2 button.
(5) Returning to the service check mode.	Press the CH3 button.
(6)Clearing the Memory data	Keep the CH5 button pressed for 1.7 seconds or more.
Change the display (forward)	Press the SEEK TRACK UP button.
Change the display (backward)	Press the SEEK TRACK DOWN button.

Note *1: To enter the diagnosis IN mode, use the buttons on the head unit.

●Diagnosis mode display

Service check mode

After system check completes, the check results for the devices connected to the AVC-LAN are displayed in turn in order of physical address number as follows:

◆"Physical address"
...The smallest physical address number is displayed first, whose check result will follow it.
Ex. P190
- P: Physical address number (radio cassette)
- 190: The physical address is displayed.

◆"Check result"
...The check result is displayed.
Ex. good Normal (OK)
ECHn Replace
CHEC Check
OLd Old Version
→ Details display mode

◆"Physical address"
...The next physical address number is displayed.

◆"Connecting confirmation no. (current)"
...The AVC-LAN time stamp is displayed.

Ex. no01
- no: The connecting confirmation number is displayed.
- 01: The current connecting confirmation number (expressed in the hexadecimal number system by using 00 to FF)

The number increases by one each time one minute passes. When 256 minutes pass, the indication returns to 00.

Details display mode (only in case of "Replace", "Check", or "Old Version")

This mode is available only when the service check result is "Replace", "Check" or "Old Version".
To select this mode, press the CH2 key.

◆"Physical address (for selected devices)"
The physical address number is displayed, whose check result details will follow it.
Ex. _ P360
- P360: Physical address number (CD-CH)

◆ "Diagnosis data source"
The detailed items depend on the data source.

Ex. SyS The data was obtained from system check.

◆ "Logical address"
The logical address number for the device with failure is displayed.
Ex. 1L_63
- 1L_: The logical address is displayed.
- 63: Logical address number (CD-CH)
- 1: Serial number

◆ "Diagnosis code"
The diagnosis code indicates what problem occurs.
Ex. 1d_45
- 1d_: The diagnosis code is displayed.
- 45: Diagnosis code (abnormal EJECT)

Ex. COdE The data was obtained from diagnosis memory data.

◆ "Logical address"...The same as that for the SyS data
◆ "Diagnosis code"...The same as that for the SyS data
◆ "Sub code"...This code indicates the device with failure.
Ex. 1P_190
- 1P_: The sub code is displayed.

◆ "Connecting confirmation number (when some failure occurs)"... AVC-LAN time stamp
Ex. no01
- no: The connecting confirmation number (expressed in the hexadecimal number system by using 00 to FF)
- 01: The connecting confirmation number is displayed.

◆ "Frequency of occurrence"
...The frequency of failures occurred
Ex. 1c_15
- 1c_: The frequency of occurrence expressed in the decimal number system.
- 15: The frequency of occurrence is displayed.

If there are two or more diagnosis codes, the diagnosis data display will continue.

② → Physical address allocation

③ ↓

①1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	M.DISP computer	New EMV	New device with AV	New MM ECU	device with AV				Audio ECU (RSA-L)	Audio H/U	DVD-P	Rear TV	Rear Control SW	Multi-CD decoder	CD-CH commander	AMP controlled radio tuner
1																XM radio tuner
2													Europe GW ECU			SIRIUS radio tuner
4					G-BOOK							1-DIN Navigation	Consolidated inside panel	Simple LCD	Consolidated SW	RSA-M
6													Gateway ECU			RSE-M
8			New 1-DIN TV		Europe navigation DISP.M/U		Rear TV with movie mode	Navigation with controls				DISPLAY with SW	FM multiplex DISPLAY	Fr controlled SW	MD-CH commander	
C							RES-L1	MONET ECU			Camera with controls		Steering SW	Navigation remote controller	Body computer	
D							RES-L2	Overseas TEL ECU								
E								Vehicle Information ECU								
1,3,5,7, 9-B,D,F																

Display
P①②③
Ex.P190
↓
Physical address

①2	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Navigation computer	ATIS	VICS	TV tuner	H/W CD-CH	H/W DVD-CH	TEL information ECU		Camera controller							
8				DTV tuner		DVD deck										
1-7, 9-F																

①3	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Radio		Cassette	Radio cassette with no CH controller	CD-P		1DIN CD-CH		MD-P		MD-CH		DAT		DCC	
8																TEL ECU
1-7, 9-F																

①4	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Equalizer				DSP				H/W AMP							
1-F																

①5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	GPS receiver	ATIS decoder	FM multiplex decoder	ETC	CD-CH		MD-CH		CD-ROM -CH		MD-ROM -CH		TEL information			
8			Radio wave beacon										May Day			
C			Optical beacon													
1-7,9-8,D-F																

①6	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	A/C computer								Body computer							
1-F																

Diagnosis code table

Logical address name	Logical address	Diagnosis code	Diagnosis details
Communi-cation control	01H	00	No diagnosis
		01	Abnormal reset
		10	Abnormal +B
		11	Abnormal ACC
		12	Abnormal MUTE
		13	Fuse broken
		20	Microcomputer - abnormal
		21	ROM - abnormal
		22	RAM - abnormal
		23	Bus - abnormal
		24	F-ROM - abnormal
		25	V-RAM - abnormal
		26	Gate allay abnormal
		27	Paint controller abnormal
		28	Backup memory abnormal
		29	Voice output controller abnormal
		2A	Internal power supply abnormal
		30	Sync signal abnormal (input)
		31	Sync signal abnormal (output)
		D0	ECU not connected
		D1	Transmission abnormal
		D2	Connecting confirmation: abnormal
		D4	Connecting confirmation: no response
		D5	Registered device data missing (History of registered devices)
		D6	Master unavailable
		D7	Connecting confirmation: abnormal
		D8	Connecting confirmation: no response
		D9	Last mode abnormal
		DA	Command/order: no response
		DB	Mode status abnormal
		DC	Transmission fault
		DD	Master reset
		DE	Slave reset
		DF	Master abnormal
		E0	Registration completion acknowledgement error
		E1	Voice processor ON abnormal
		E2	ON/OFF command or parameter abnormal
		E3	Registration command transmission
		E4	Multiple frames intermit.
		FF	Diagnosis - no response

Logical address name	Logical address	Diagnosis code	Diagnosis details
Radio	60H	10	AM tuner PLL unlocked
		11	FM tuner PLL unlocked
		40	No antenna connected
		41	Antenna power supply abnormal
		42	Tuner power supply abnormal
		43	AM tuner abnormal
		44	FM tuner abnormal
		45	SW tuner abnormal
TV tuner	40H	10	TV tuner PLL unlocked
		11	FRONTEND abnormal
		40	TV divergence shifting error
		41	TV – no reception
		42	VNR screen error
		43	No antenna connected
		44	Antenna power supply abnormal
		45	SEL +B current – small
		46	SEL +B current – large
Cassette tape	61H	10	Belt broken
		40	Mechanical failure or cassette broken
		41	EJECT failure
		42	TAPE jamming
		43	Dirty head
		44	Mech power supply abnormal
CD CD-P CD-CH	43H 62H 63H	10	CD Mech abnormal
		11	CD loading/unloading abnormal
		12	CD lead-in abnormal
		40	No disc loaded
		41	Incorrect disc
		42	Disc unreadable
		43	CD-ROM abnormal
		44	CD abnormal
		45	EJECT abnormal
		46	Scratches or non-recorded side
		47	CD high temperature detected
		48	Excessive current detected
		50	Tray IN/OUT abnormal
		51	Elevator abnormal
		52	Clamp abnormal
MD MD-CH	64H 65H	10	MD mech abnormal
		11	MD IN/OUT abnormal
		12	MD lead-in abnormal
		40	No disc loaded
		41	Incorrect disc
		42	Disc unreadable
		43	MD-ROM abnormal
		44	MD abnormal
		45	EJECT error
		46	Scratches or non-recorded side
		47	MD high temperature detected
		48	Excessive current detected
		50	Tray IN/OUT abnormal
		51	Elevator abnormal
		52	Clamp abnormal

Logical address name	Logical address	Diagnosis code	Diagnosis details
Navigation /GPS	58H 80H	10	Gyroscope abnormal
		11	GPS receiver abnormal
		12	RTC abnormal
		13	SS section abnormal
		14	No Time updating
		15	TCXO abnormal
		16	PLL lock abnormal
		40	GPS antenna abnormal
		41	GPS antenna power supply abnormal
		42	Map disc reading abnormal
		43	SPD signal abnormal
		44	Player abnormal
		45	High temperature abnormal
FM multiplex (VICS), radio wave beacon, beacon, optical beacon, FM multiplex (data), and FM multiplex tuner	5AH 84H 5BH 83H 82H 9AH	41	Antenna power supply abnormal
		45	Radio wave beacon - no antenna connected
		46	Optical beacon - no antenna connected
		47	No FM antenna connected
		4A	FM receiver abnormal
		4B	Radio wave beacon abnormal
		4C	Optical beacon abnormal
Voice control	85H	40	Voice-control activation SW abnormal
		41	Voice-control Microphone abnormal
Extended communi-cation	02H	40	Multi-CD-CH (optical cable) abnormal
		41	Multi-CD-CH (optical cable) not connected
		42	Multi-CD-CH (CarNet) abnormal
		43	Multi-CD-CH (CarNet) not connected
		50	HIT64 communication not connected
		51	HIT64 communication abnormal
		52	HIT64 BRQ disconnection
		53	HIT64 BRQ short-circuit
		54	HIT64 disconnection
		55	CarNet communication not connected
		56	CarNet communication abnormal
		57	CarNet periodical communication abnormal
Information display/front monitors	32H 34H	10	Video circuit abnormal
		11	Back light abnormal (with no current)
		12	Back light abnormal (with excessive current)
		13	Panel open/close mechanical operation abnormal
		40	Front seat monitor abnormal
		41	Heater abnormal
SW, Audio SW, SW shifting, Command SW	21H 23H 24H 25H	10	Panel SW abnormal
		11	Touch SW failure
XM tuner	C0H	11	PLL Unlock
		12	CODEC Communication Error
		13	SSDEC Communication Error
		14	SSDEC No Response Error
		15	NVM Error
		16	CAP Error
		40	ANTENNA No Contact
		41	ANTENNA Short

Diagnosis code table

Logical address name	Logical address	Diagnosis code	Diagnosis details
XM	C0H	11	PLL unlocked
		12	CDEC communication error
		13	SSDEC communication error
		14	SSDEC no response
		15	NVM error
		16	CAP error
		40	No antenna connected
		41	Antenna short-circuited
DVD-CH	45H	42	Disc unreadable
		44	DVD abnormal
		45	EJECT abnormal
		46	Scratches or non-recorded side
		47	DVD high temperature detected
		48	Excessive current detected
		50	Tray IN/OUT abnormal
		51	Elevator abnormal

6.5 HOW TO CHECK THE BLUETOOTH

Notes :
The followings are instructions for cell-phones actually connected at the service field site.
When using the maximum allowable number of Bluetooth units, you need to delete the registration with customer's consent, then newly register a Bluetooth unit for the confirmation.

Items to be checked
Check the connection by conducting a normal operation with BT-embedded cell-phone.

- Checking the Bluetooth connection
  Authentication connection: Check that a new BT-embedded cell-phone can be registered.
  Voice connection: Place a BT-embedded cell-phone about 3 meters away, then make a call to the cell-phone.
  Using a MIC tool, check that the sound quality of the call is satisfactory without noises.

<<Description of indications>>

1. Indication showing the state of the radio wave receive level of the cell-phone
   Note) It is not the Bluetooth receive level.

2. Bluetooth link connection indication
   When the mark is displayed: Bluetooth is currently connected.
   When the mark is not displayed: Bluetooth is not connected.

6.6 TRANSPORTATION MODE

Operation method

1. Make ACC a state of OFF.(+B is ON.)
2. Push the EJECT button of CD.
3. Turn on ACC while pushing the EJECT button.
4. Push the LOAD button 3 times within 5 sec while pushing the EJECT button.(MECHA SHIP MODE start)

7. DISASSEMBLY

While the photograph shown is slightly different from this model in shape, the disassembly procedure is the same.

● Removing the Grille Assy (Fig.1, 2)

1 Remove the four screws.

2 Remove the four hooks.

3 Disconnect the Cable from Connector and then remove Grille Unit.

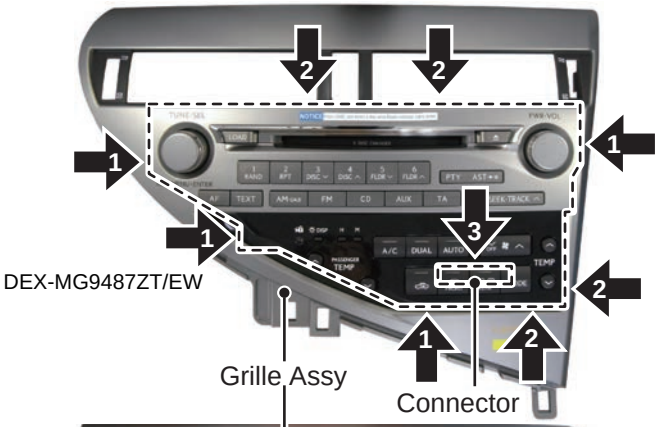


Fig.1

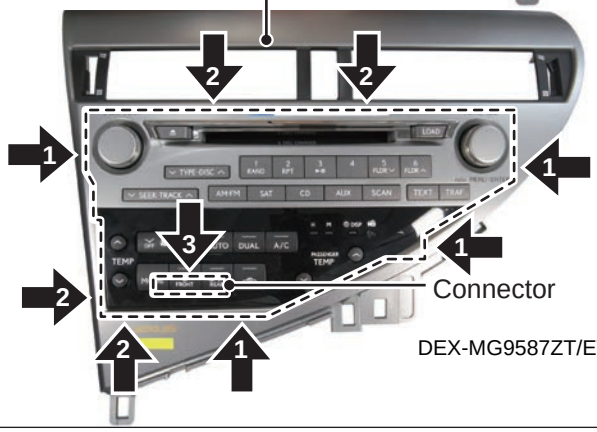


Fig.2

● Removing the Keyboard Unit (Fig.3, 4)

1 Remove the fourteen screws and then remove the Keyboard Unit.

DEX-MG9487ZT/EW

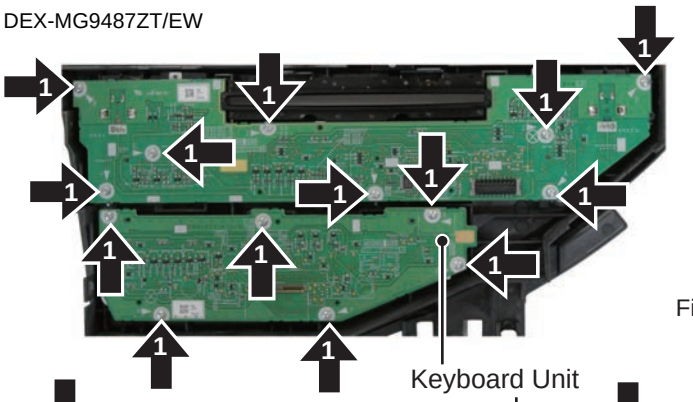


Fig.3

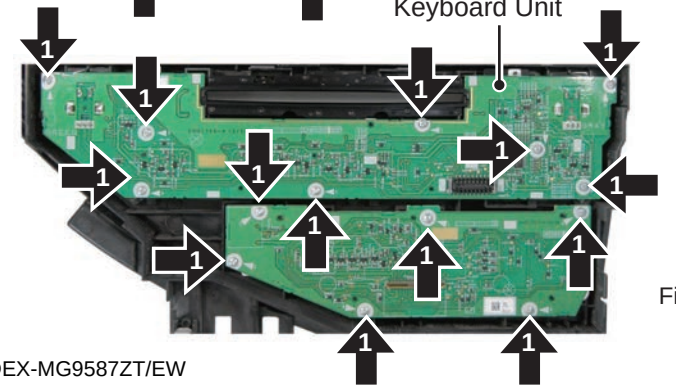


Fig.4

● Removing the Holder and the Cord Assy (Fig.5, 6)
DEX-MG9487ZT/EW

1 Remove the three screws and then remove the Holder (L). (Fig.5)

Disconnect the Cable from the Connector.(Fig.6)

2 Remove the two screws.(Fig.6)

3 Remove the four screws and then remove the Holder (R) and Cord Assy.(Fig.6)

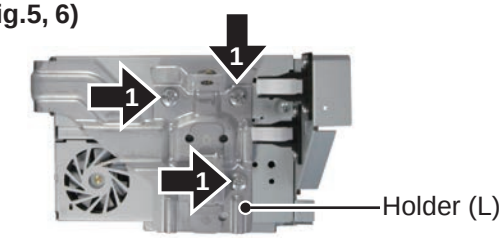


Fig.5

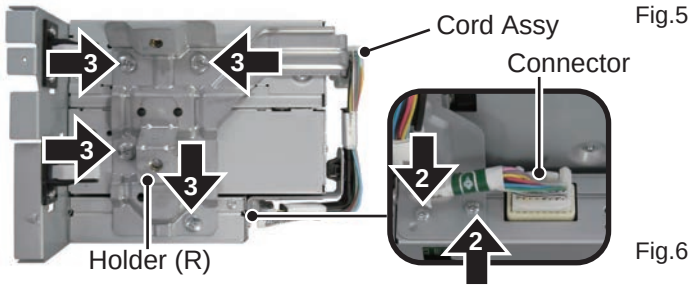


Fig.6

● Removing the Holder and the Cable Assy (Fig.7, 8)
DEX-MG9587ZT/EW

Disconnect the Cable from the Connector.(Fig.7)

1 Remove the two screws.(Fig.7)

2 Remove the four screws and then remove the Holder (L) and Cord Assy.(Fig.7)

3 Remove the three screws and then remove the Holder (R). (Fig.8)

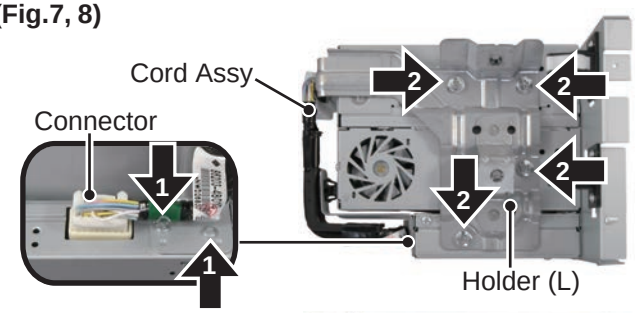


Fig.7

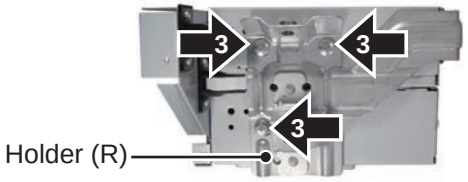
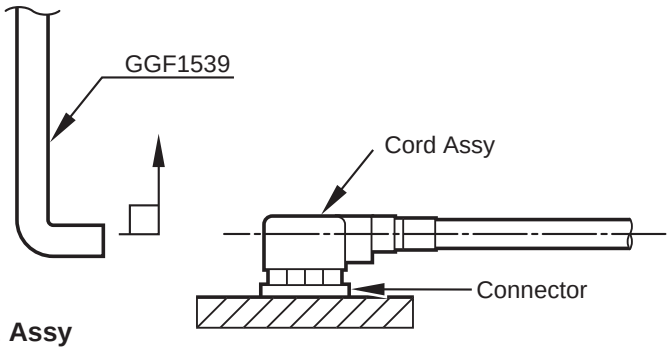


Fig.8

When unplugging the cord assy, make sure to use jig GGF1539.
If the antenna cable is directly unplugged without using jig GGF1539, you might damage your fingertip or fingernail.

● How to Remove the Cord Assy
When unplugging cord assy, hook the point of jig GGF1539 on the lid of cord assy and vertically draw out along with the engagement axis of connector.



● How to Attach the Cord Assy
For inserting cord assy, adjust cord assy with the engagement axis of connector and insert it as vertically as possible.
Do not insert the cord assy in extreme slant, as the connector might suffer damage.

● Removing the Controller Assy and the Frame Unit (Fig.9, 10)

DEX-MG9487ZT/EW

1 Remove the four screws and then remove the Controller Assy.

2 Disconnect the Cord Assy using GGF1539.

3 Remove the five screws and then remove the Frame Unit.

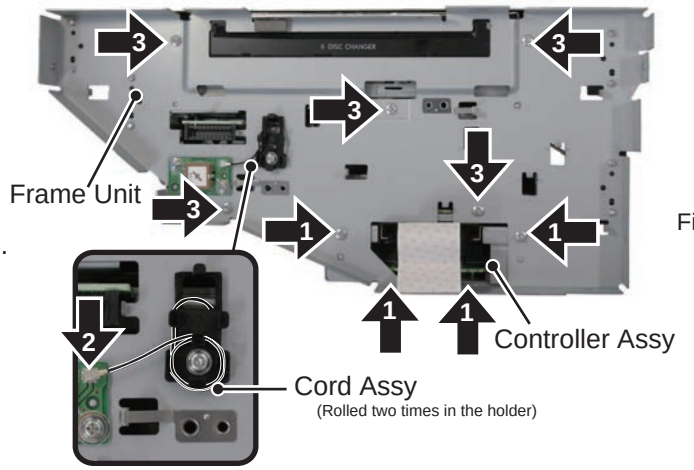


Fig.9

DEX-MG9587ZT/EW

Attention at installation)
The Code Assy is wrapped around the holder as shown in figure.

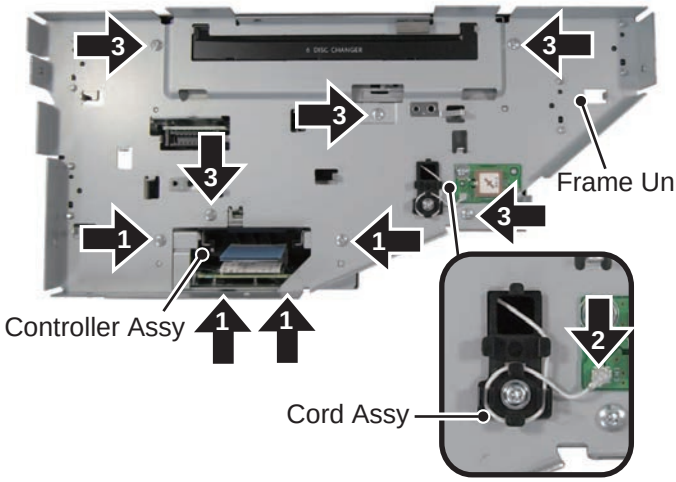


Fig.10

● Removing the Case (Fig.11, 12)

1 Remove the nine screws and then remove the Case.

Fig.11

Fig.12

● Removing the CD Mechanism Module and Shassis (Fig.13)

1 Disconnect the Cables.

2 Remove the five screws and then remove the CD Mechanism Module.

Remove the Chassis.

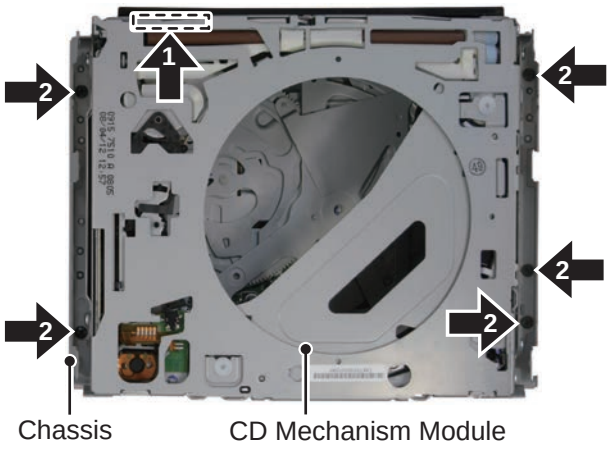


Fig.13

● Removing the BT Module and Connector PCB(B) (Fig.14)

1 Disconnect the Cables.

2 Disconnect the Cables and then remove Holder Assy.

3 Disconnect the Cord Assy using GGF1539.

4 Remove the four screws and then remove the BT Module.

5 Straighten the tabs at two locations indicated.

6 Remove the screw and then remove the Connector PCB(B).

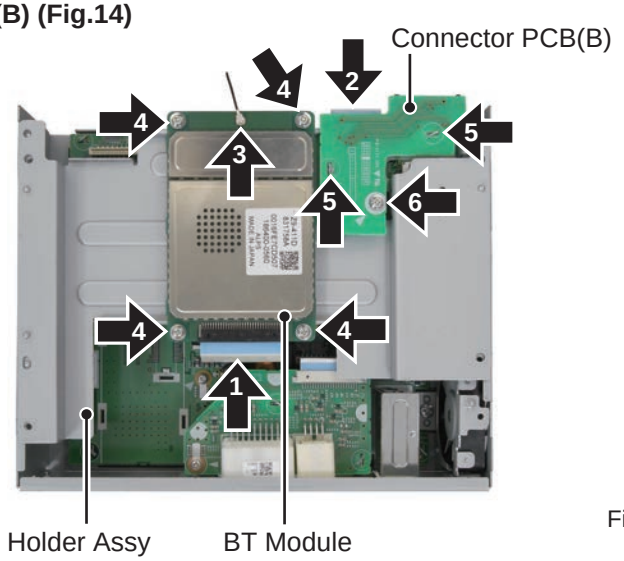


Fig.14

● Removing the Main Unit and Connector PCB(A) (Fig.15, 16)

1 Remove the four screws and then remove the Holder. (Fig.15)

2 Disconnect the Cables.(Fig.16)

3 Remove the screws and then remove the Fan Assy.(Fig.16)

4 Straighten the tabs at three locations indicated.(Fig.16)

5 Remove the three screws and then remove the Main Unit. (Fig.16)

6 Disconnect the Cables.

7 Straighten the tabs at two locations indicated.(Fig.16)

8 Remove the screws and then remove the Connector PCB(A).(Fig.16)

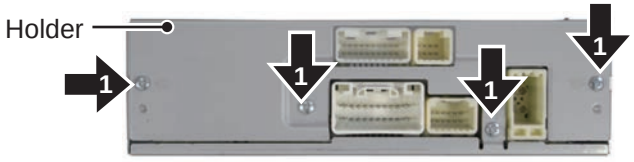


Fig.15

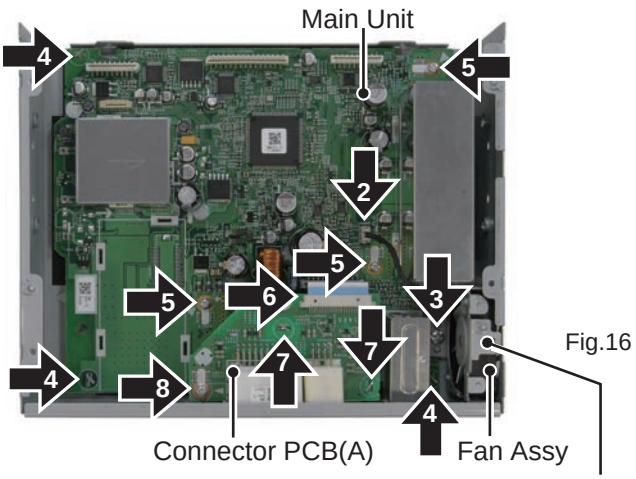


Fig.16

Note:When handling the board, be sure not to deform the ANT holder.

● Removing the Panel Control Unit (Fig.17, 18)

1 Remove the two screws
and then remove the Case. (Fig.17)

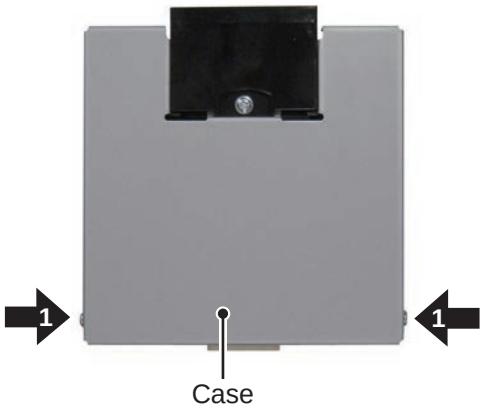


Fig.17

2 Straighten the tabs
at four locations indicated.(Fig.18)

3 Remove the screw
and then remove the Panel Contorl Unit. (Fig.18)

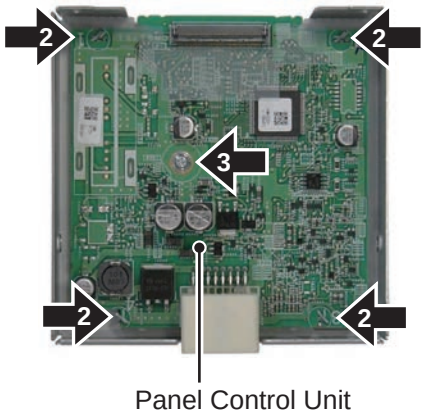


Fig.18

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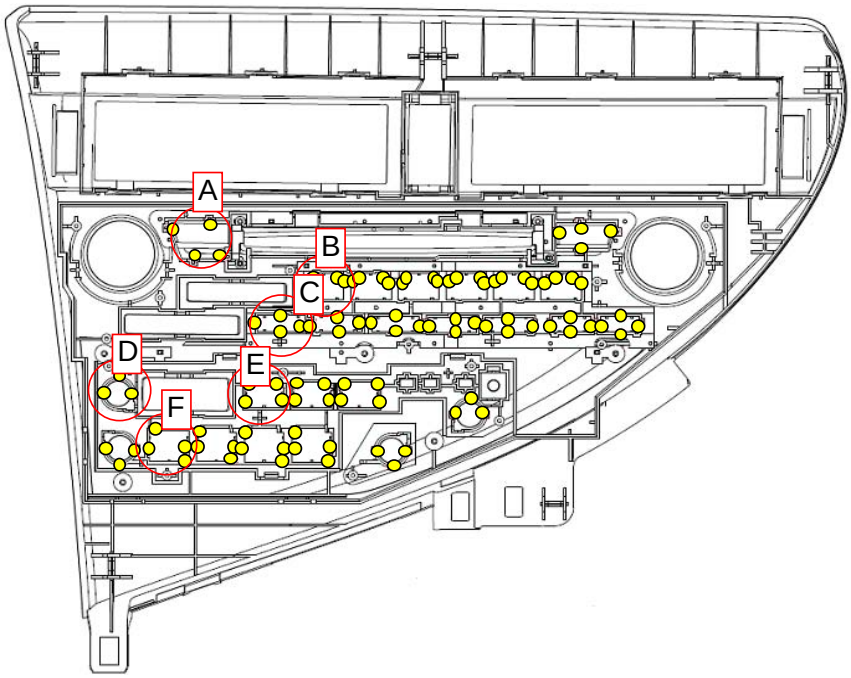
* Please refer to Mechanism Manual (CRT4162) for removing module part of CD mechanism.
Three GGF1538 are necessary to build up CD mechanism.

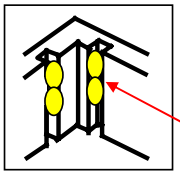
● Notice for changing buttons in Front Panel
Grease in panel when replacing buttons.
Please refer to the following procedure.

● Grease List(Jig No.)
GGK1004 : syringe(w/o needle)
GGL1011 : needle
GEM1048 : Grease
GGF1561 : Sample of Grease amount

● Procedure for applying Grease
1. Clean off the old Grease where the bottons are installed.
2. Install the needle in syringe and Grease in it.
*Not to fall off the needle, install it tightly.
3. Use the syringe and apply Grease about 2.0 mg on the spots shown in the following pictures.
*As for the amount of Grease, refer to the sample(GGF1561).
4. Install the buttons after applying Grease.
Check the Grease if it is stuck out or not.
*If the Grease is stuck out, return to Procedure Number 1.

● Grease is spread by two points.

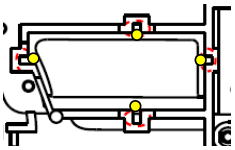


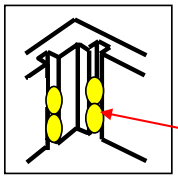


A

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Spread grease from the half of the ditch up.

A

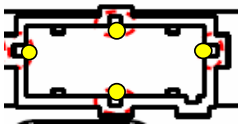




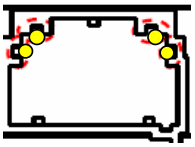
C

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Grease spreads 3/4 or more of the height of the ditch
in the vertical direction downward.

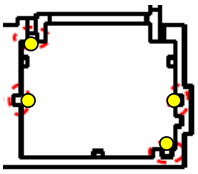
C

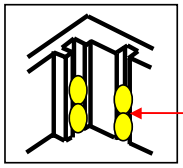


B



F

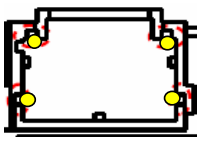


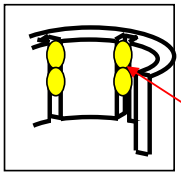


B E F

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Spread grease from the half of the ditch downward.

E

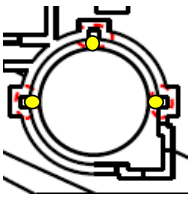




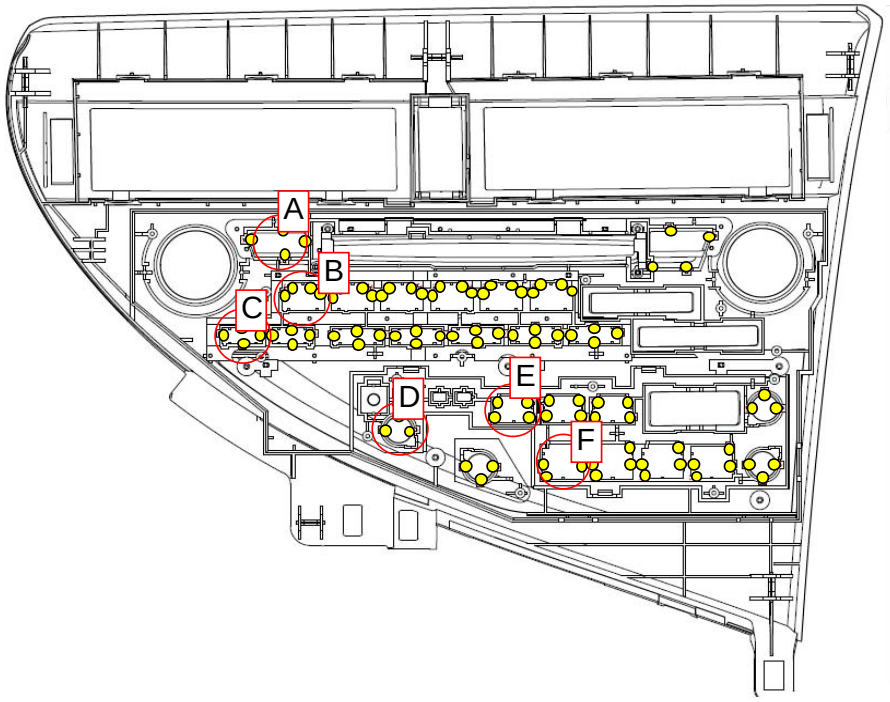
D

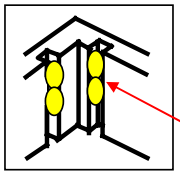
Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Spread grease from the half of the ditch up.

D



● Grease is spread by two points.

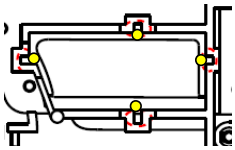


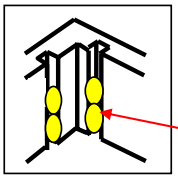


A

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Spread grease from the half of the ditch up.

A

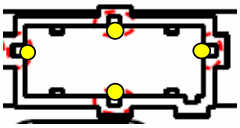


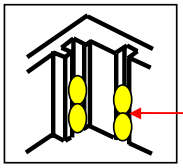


C

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Grease spreads 3/4 or more of the height of the ditch
in the vertical direction downward.

C

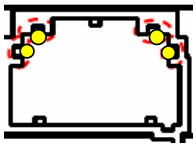




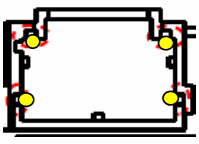
B E F

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Spread grease from the half of the ditch downward.

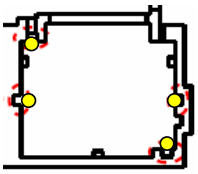
B

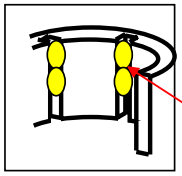


E



F

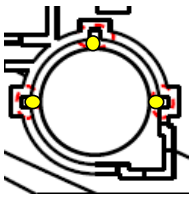




D

Two points must be spread grease on the ditch.
It doesn't care even about one side of the ditch alone.
Spread grease from the half of the ditch up.

D



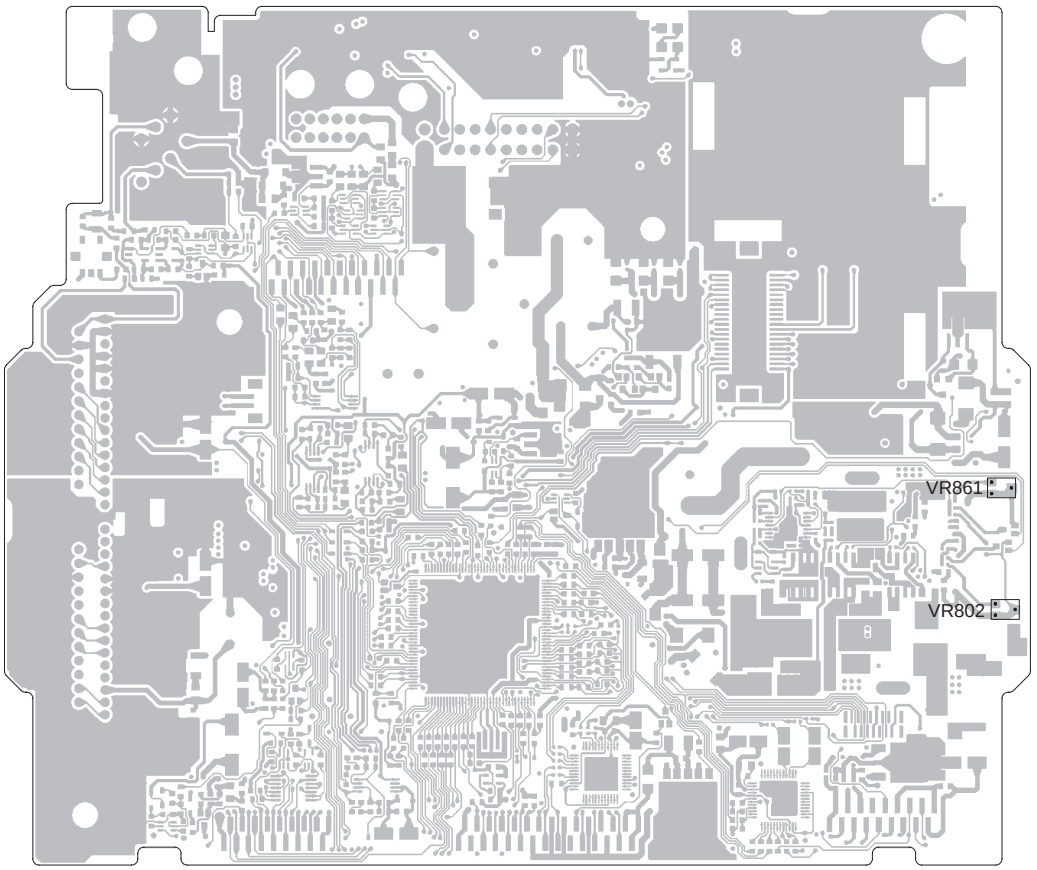
8. EACH SETTING AND ADJUSTMENT

8.1 MAIN UNIT ADJUSTMENT

● **Adjustment point**

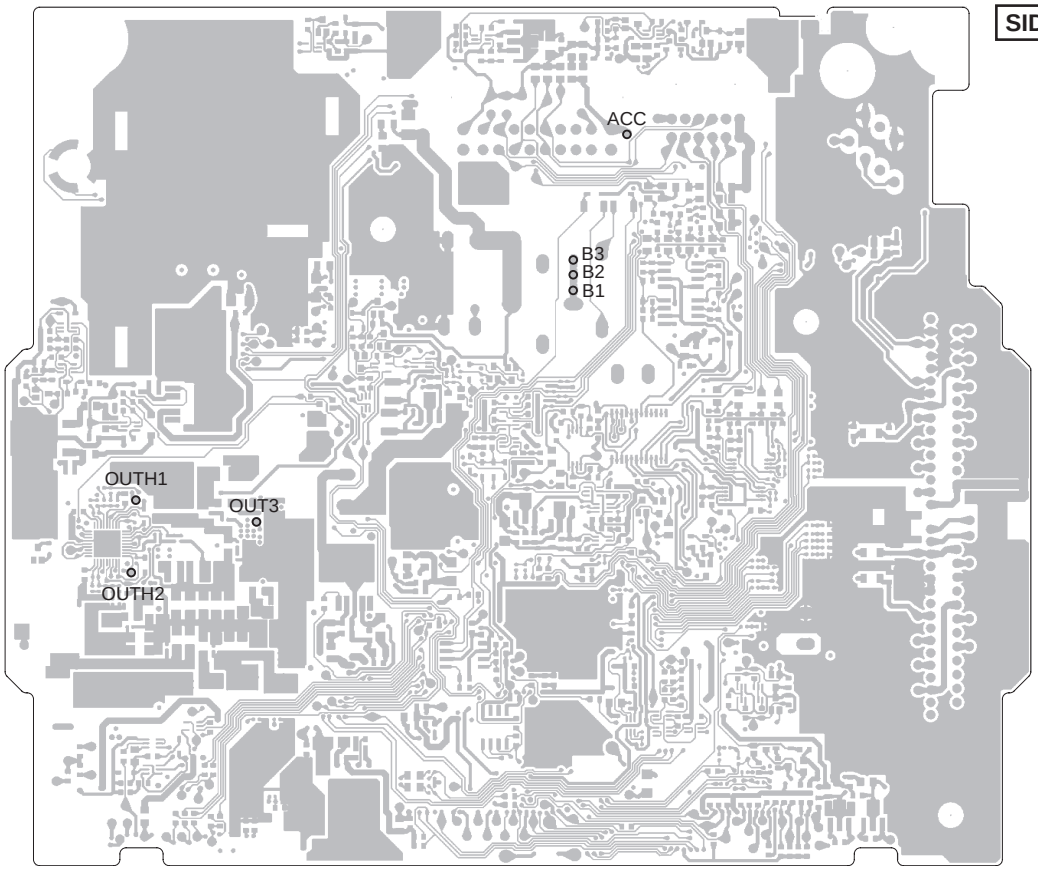
MAIN UNIT

SIDE A



MAIN UNIT

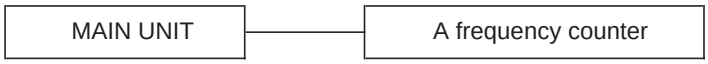
SIDE B



● DC-DC Converter adjustment

No.	Measuring point	Adjusting point	Content of adjustment
1	OUTH1	VR802	Frequency counter : 390 kHz ± 3 kHz
2	OUT3	VR861	Frequency counter : 390 kHz ± 3 kHz

SETTING



TEST Point

Test point in the main unit OUTH1
OUTH2
OUT3

ADJUST Parts

VR802
VR861

ADJUSTMENT method

(1) Floor temperature at the time of adjustment is 35 from 5℃.
(2) Connect a power supply to CN301(or TEST point : B1, B2, B3). Voltage 13.2 V ± 0.1 V
(3) Supply a power supply at a test point (ACC). Voltage 13.2 V ± 0.1 V
(4) Connect a power supply to CN301(or TEST point : ACC). Voltage 13.2 V ± 0.1 V
(5) Measure frequency of a test point (OUTH1, OUTH2, OUT3).
(6) Please change it in 3rd channels of AM.
(7) Adjust a variable resistance (VR802) so that frequency satisfied 393 kHz from 387 kHz.
(8) Confirm the output of OUTH2 is the same as OUTH1.
(9) Adjust a variable resistance (VR861) so that frequency of OUT3 satisfied 393 kHz from 387 kHz.

SPEC.

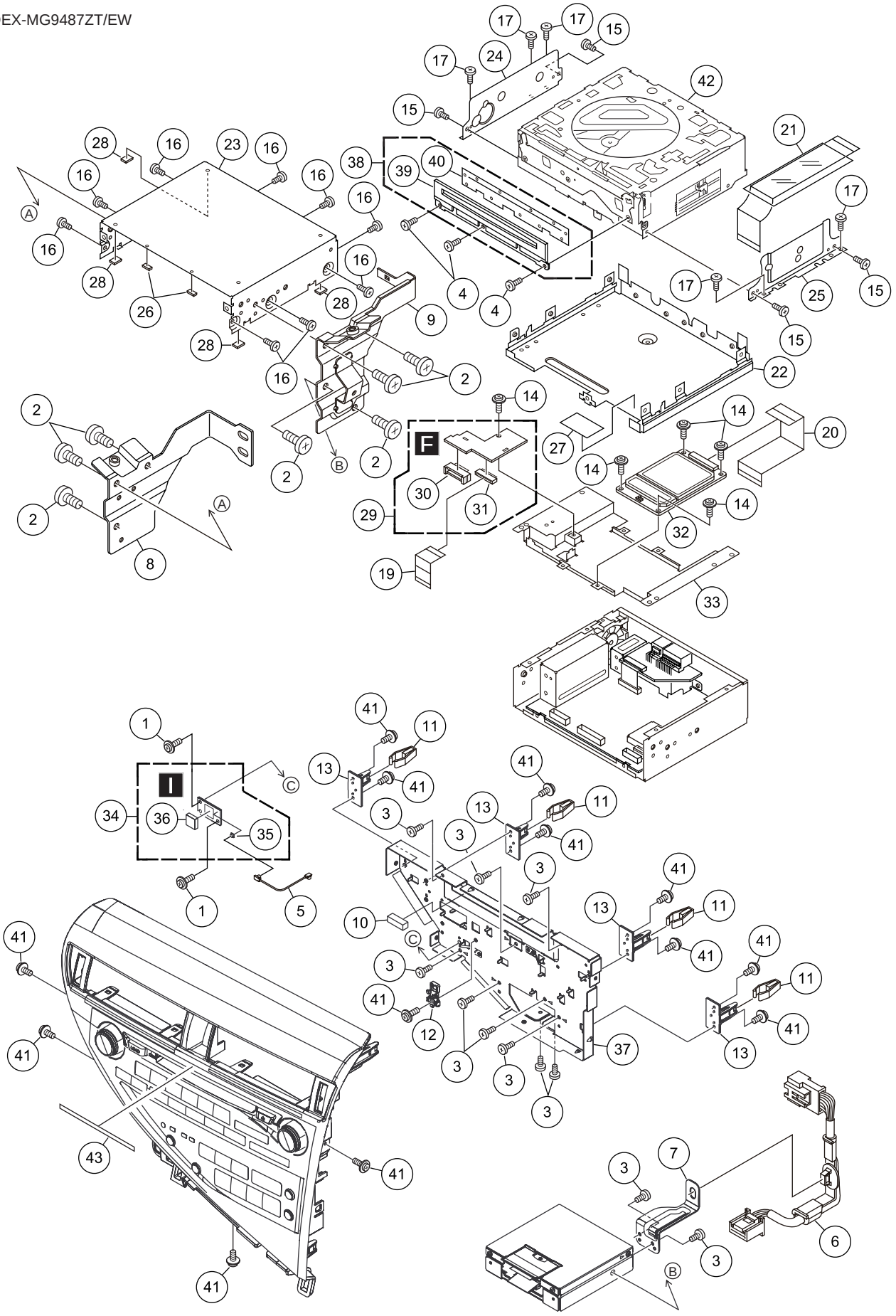
390 kHz ± 3 kHz

9. EXPLODED VIEWS AND PARTS LIST

NOTES : • *Parts marked by "* * " are generally unavailable because they are not in our Master Spare Parts List.*
• *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
• *Screw adjacent to▽ mark on the product are used for disassembly.*
• *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions,apply as you think it appropriate.)*

9.1 EXTERIOR (1)(DEX-MG9487ZT/EW)

DEX-MG9487ZT/EW

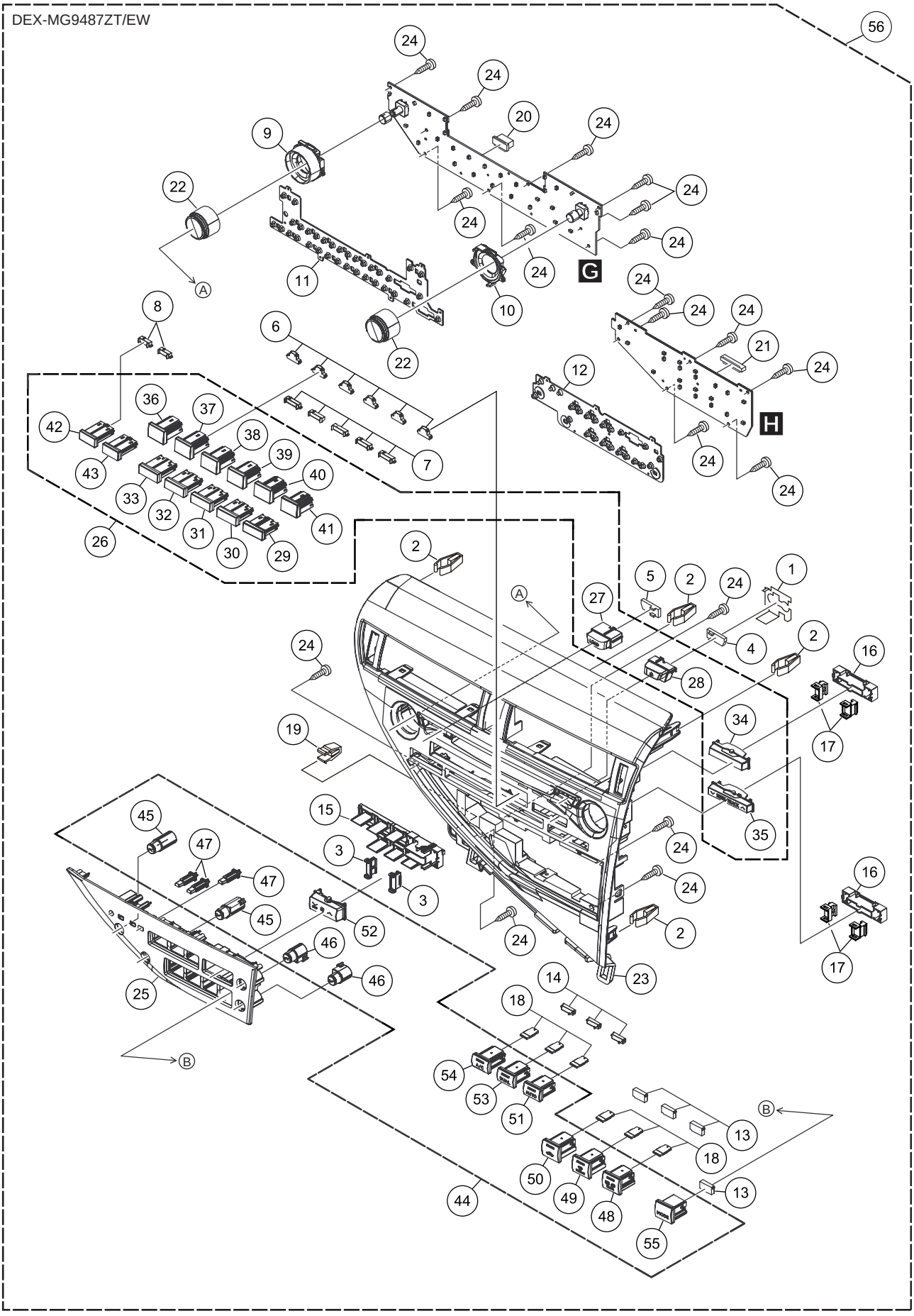


EXTERIOR (1)(DEX-MG9487ZT/EW) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	ASZ26P050FTC
	2	Screw	BMZ50P080FTC
	3	Screw	BSZ26P050FTC
	4	Screw(M2 x 1)	CBA2137
	5	Cord Assy	CDE8626
	6	86203-48030	CDE8725
	7	Holder	CND4562
	8	86212-48110	CND4685
	9	86211-48110	CND4686
	10	Cushion	CNN2388
	11	90467-13082	CNV9101
	12	Holder	CNW1130
	13	Guide	CNW1157
	14	Screw	ASZ26P050FTC
	15	Screw	BMZ30P040FTC
	16	Screw	BSZ26P040FTC
	17	Screw	BSZ26P060FTB
	18	•••••	
	19	Connector	CDE8483
	20	Connector	CDE8485
	21	Connector	CDE8486
	22	Chassis	CNA2936
	23	Case	CNB3338
	24	Holder	CND3536
	25	Holder	CND3537
	26	Cushion	CNN1564
	27	Cushion	CNN1759
	28	Cushion	CNN2462
	29	Connector Unit	CWN2684
	30	Connector(CN1002)	CKS6053
	31	Connector(CN1001)	VKN1310
	32	BT Module	CWW1711
	33	Holder Unit	CXC8510
	34	Antenna Unit	CWN3673
	35	Connector(CN1)	CKS5058
	36	BT Antenna(ANT1)	CWX3733
	37	Frame Unit	CXC9288
	38	Door Unit	CXC9314
	39	Door	CAT2839
*	40	Covew	CNN1630
	41	Screw	IMS26P050FTC
	42	CD Mechanism Module(Service)	CXX2245
*	43	Label	CRW1695

The screw (4:CBA2137) can not be used again when removing once.
Please exchange it for new parts when you remove the screw from the product.

9.2 EXTERIOR (2)(DEX-MG9487ZT/EW)

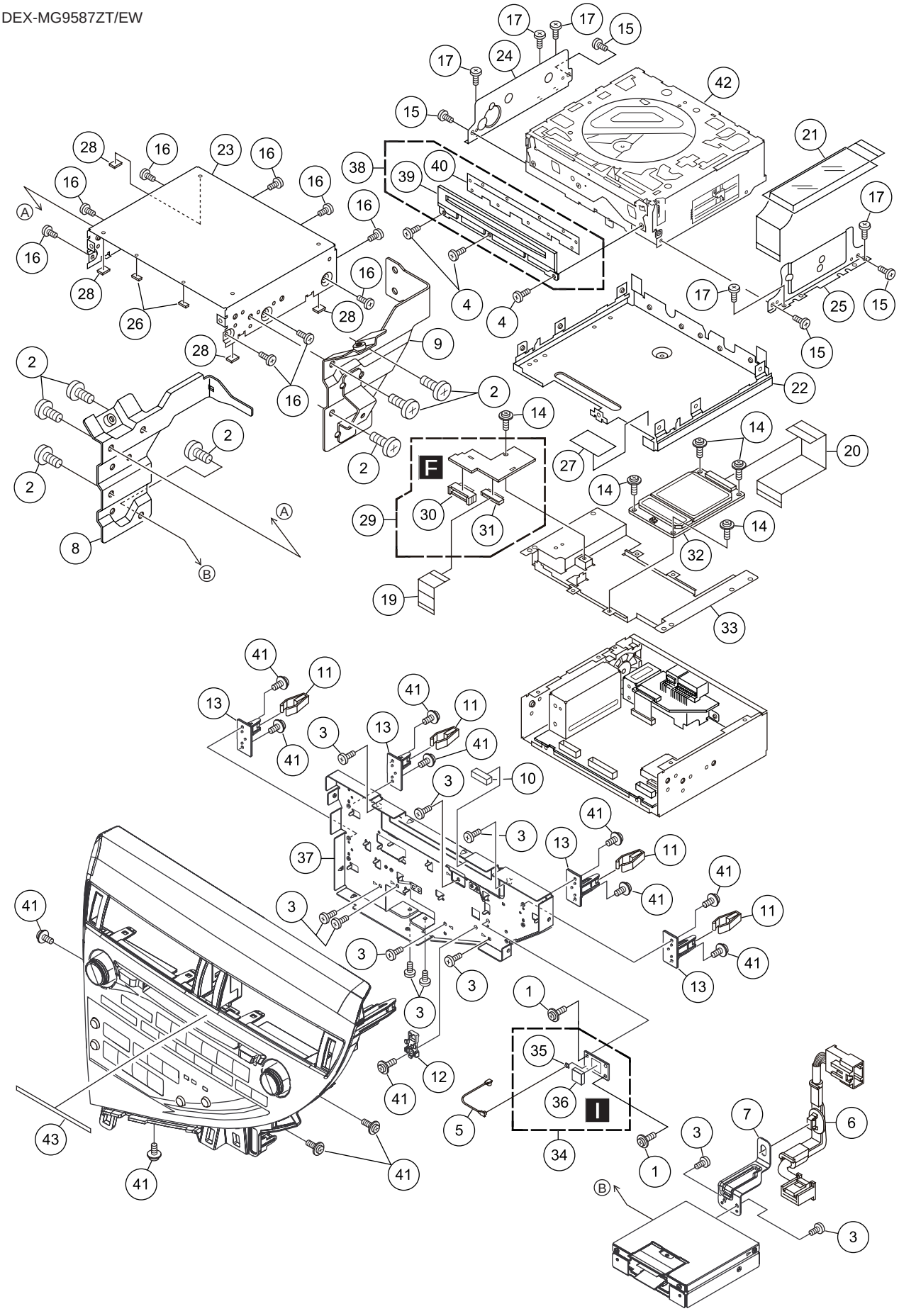


EXTERIOR (2)(DEX-MG9487ZT/EW) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Sheet	CNN2627
	2	90467-13082	CNV9101
	3	Holder	CNV9796
	4	Lighting Conductor	CNV9799
	5	Lighting Conductor	CNV9800
	6	Lighting Conductor	CNV9803
	7	Lighting Conductor	CNV9804
	8	Lighting Conductor	CNV9806
	9	Lighting Conductor	CNW1109
	10	Lighting Conductor	CNW1110
	11	Rubber	CNW1133
	12	Rubber	CNW1134
	13	Lighting Conductor	CNW1135
	14	Lighting Conductor	CNW1136
	15	Holder	CNW1138
	16	Holder	CNW1158
	17	Holder	CNW1159
	18	Lighting Conductor	CNW1160
	19	90467-10201	CNW1293
	20	Connector(CN2701)	CKS6054
	21	Connector(CN2501)	CKS5078
	22	Knob Unit	CXC8721
	23	Grille Unit	CXC9289
	24	Screw	BPZ20P080FTC
	25	Plate Unit	CXC9804
*	26	Button Unit	CXC9290
	27	Button(LOAD)	CAI1844
	28	Button(EJECT)	CAI1845
	29	Button(TA)	CAI1858
	30	Button(AUX)	CAI1859
	31	Button(CD)	CAI1860
	32	Button(FM)	CAI1861
	33	Button(AM DAB)	CAI1862
	34	Button(PTY/AST)	CAI1863
	35	Button(SEEK/TRACK)	CAI1864
	36	Button(1/RAND)	CAI1865
	37	Button(2/RPT)	CAI1866
	38	Button(3/DISC DOWN)	CAI1867
	39	Button(4/DISC UP)	CAI1868
	40	Button(5/FLDR DOWN)	CAI1869
	41	Button(6/FLDR UP)	CAI1870
	42	Button(AF)	CAI1871
	43	Button(TEXT)	CAI1872
*	44	Button Unit	CXC9312
	45	Button(PASSENGER TEMP)	CAI1598
	46	Button(TEMP)	CAI1600
	47	Button(DISP/H/M)	CAI1612
	48	Button(REAR)	CAI1873
	49	Button(FRONT)	CAI1874
	50	Button(REC)	CAI1875
	51	Button(AUTO)	CAI1876
	52	Button(WIND)	CAI1877
	53	Button(DUAL)	CAI1878
	54	Button(A/C)	CAI1879
	55	Button(MODE)	CAI1880
	56	Panel Assy	CPN2977

9.3 EXTERIOR (3)(DEX-MG9587ZT/EW)

DEX-MG9587ZT/EW

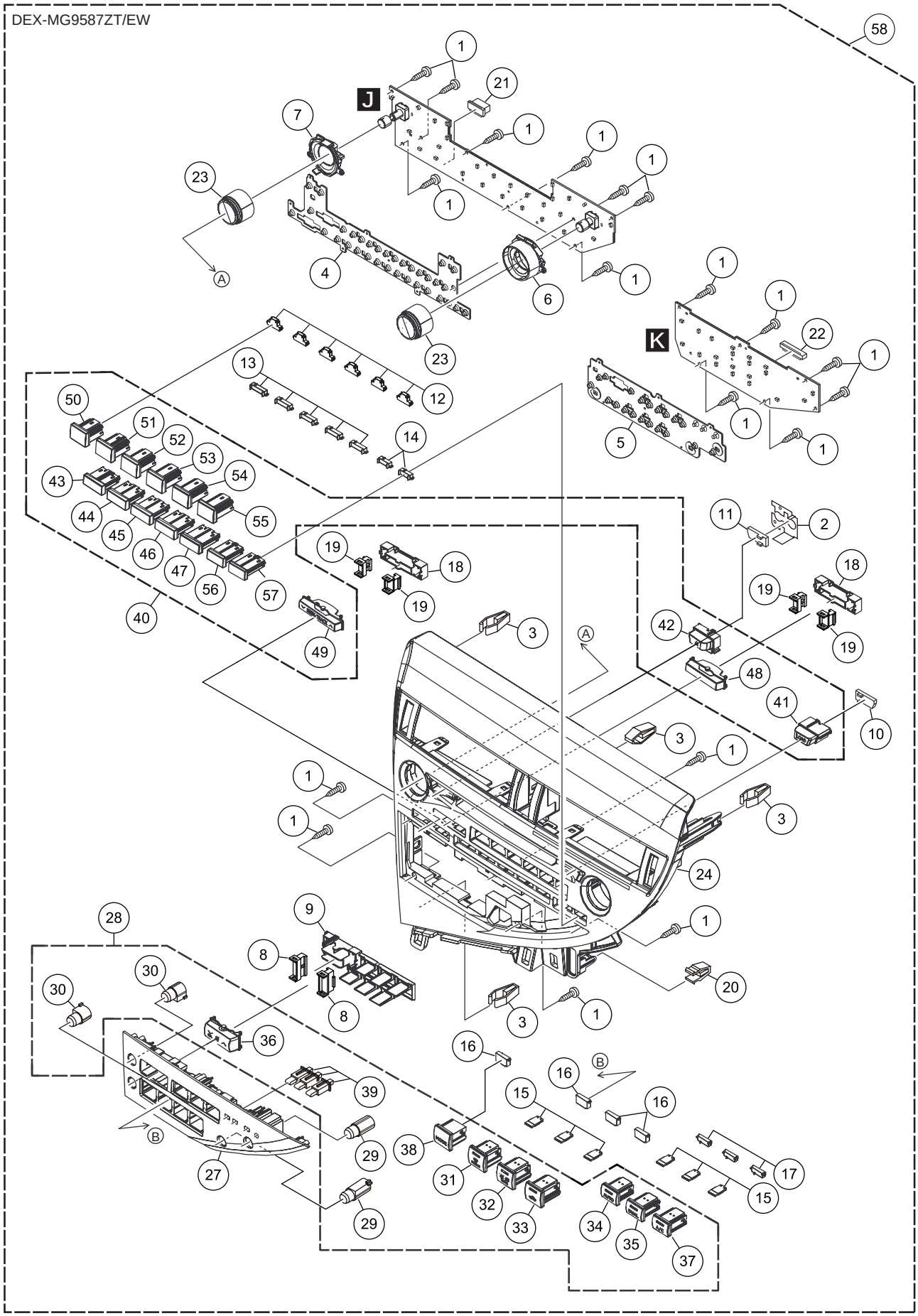


EXTERIOR (DEX-MG9587ZT/EW) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	ASZ26P050FTC
	2	Screw	BMZ50P080FTC
	3	Screw	BSZ26P050FTC
	4	Screw(M2 x 1)	CBA2137
	5	Cord Assy	CDE8525
	6	86203-48010	CDE8708
	7	Holder	CND4526
	8	86212-48100	CND4683
	9	86211-48100	CND4684
	10	Cushion	CNN2388
	11	90467-13082	CNV9101
	12	Holder	CNW1130
	13	Guide	CNW1157
	14	Screw	ASZ26P050FTC
	15	Screw	BMZ30P040FTC
	16	Screw	BSZ26P040FTC
	17	Screw	BSZ26P060FTB
	18	•••••	
	19	Connector	CDE8483
	20	Connector	CDE8485
	21	Connector	CDE8486
	22	Chassis	CNA2936
	23	Case	CNB3338
	24	Holder	CND3536
	25	Holder	CND3537
	26	Cushion	CNN1564
	27	Cushion	CNN1759
	28	Cushion	CNN2462
	29	Connector Unit	CWN2684
	30	Connector(CN1002)	CKS6053
	31	Connector(CN1001)	VKN1310
	32	BT Module	CWW1711
	33	Holder Unit	CXC8510
	34	Antenna Unit	CWN3673
	35	Connector(CN1)	CKS5058
	36	BT Antenna(ANT1)	CWX3733
	37	Frame Unit	CXC8722
	38	Door Unit	CXC9314
	39	Door	CAT2839
*	40	Cover	CNN1630
	41	Screw	IMS26P050FTC
	42	CD Mechanism Module(Service)	CXX2245
*	43	Label	CRW1695

The screw (4:CBA2137) can not be used again when removing once.
Please exchange it for new parts when you remove the screw from the product.

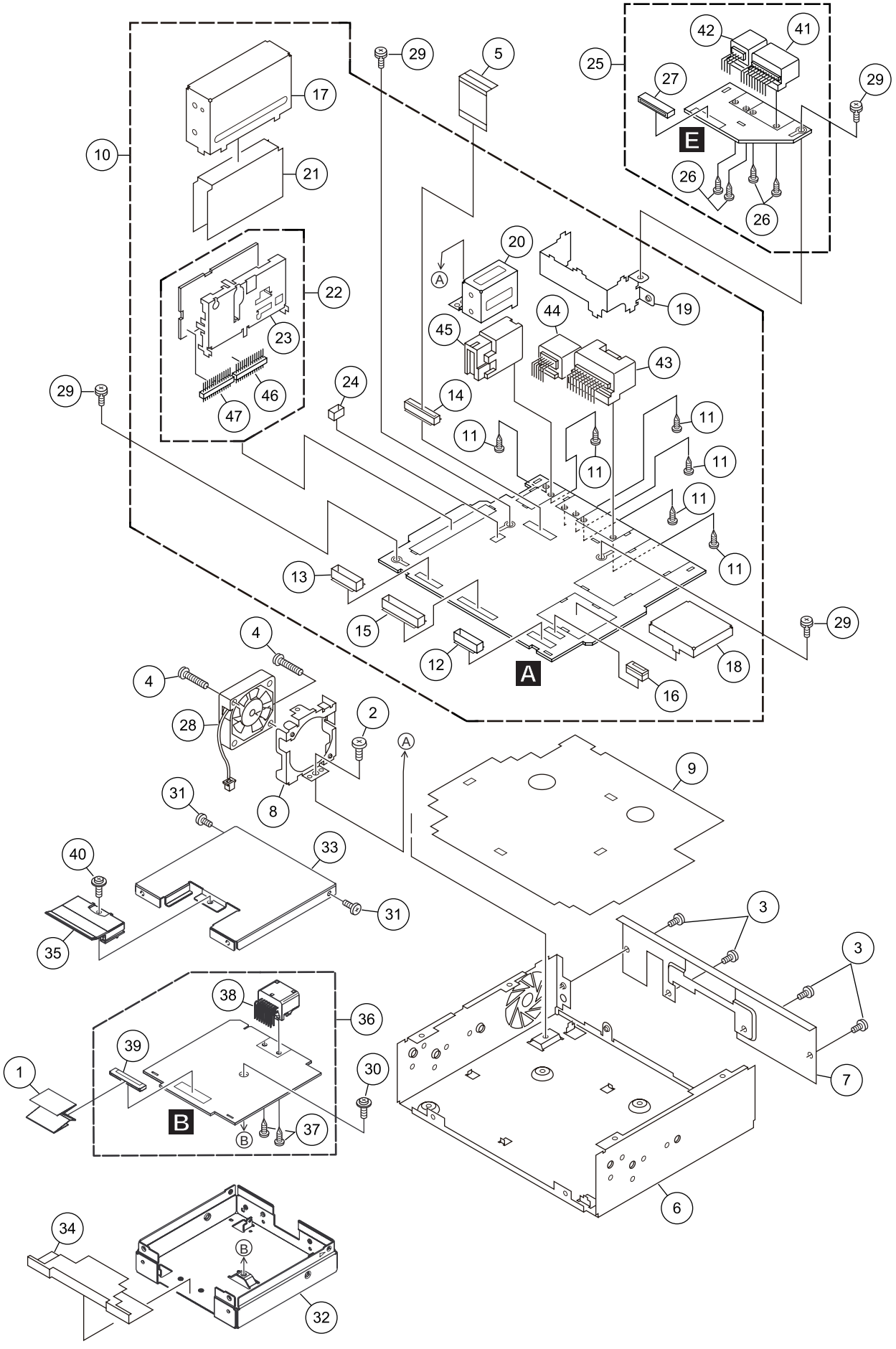
9.4 EXTERIOR (4)(DEX-MG9587ZT/EW)



EXTERIOR (4)(DEX-MG9587ZT/EW) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BPZ20P080FTC
	2	Sheet	CNN2626
	3	90467-13082	CNV9101
	4	Rubber	CNV9776
	5	Rubber	CNV9777
	6	Lighting Conductor	CNV9788
	7	Lighting Conductor	CNV9789
	8	Holder	CNV9796
	9	Holder	CNV9798
	10	Lighting Conductor	CNV9799
	11	Lighting Conductor	CNV9800
	12	Lighting Conductor	CNV9803
	13	Lighting Conductor	CNV9804
	14	Lighting Conductor	CNV9806
	15	Lighting Conductor	CNV9807
	16	Lighting Conductor	CNV9815
	17	Lighting Conductor	CNV9816
	18	Holder	CNW1158
	19	Holder	CNW1159
	20	90467-10201	CNW1293
	21	Connector(CN2701)	CKS6054
	22	Connector(CN2501)	CKS5078
	23	Knob Unit	CXC8721
	24	Grille Unit	CXC9443
	25	•••••	
	26	•••••	
	27	Plate Unit	CXC9794
*	28	Button Unit	CXC9310
	29	Button(PASSENGER TEMP)	CAI1598
	30	Button(TEMP)	CAI1600
	31	Button(FRONT)	CAI1602
	32	Button(REAR)	CAI1603
	33	Button(REC)	CAI1604
	34	Button(AUTO)	CAI1605
	35	Button(DUAL)	CAI1607
	36	Button(WIND)	CAI1608
	37	Button(A/C)	CAI1609
	38	Button(MODE)	CAI1610
	39	Button(H/M/DISP)	CAI1612
*	40	Button Unit	CXC9455
	41	Button(LOAD)	CAI1571
	42	Button(EJECT)	CAI1572
	43	Button(AM DAB)	CAI1928
	44	Button(FM)	CAI1929
	45	Button(CD)	CAI1582
	46	Button(AUX)	CAI1583
	47	Button(TA)	CAI1930
	48	Button(AST/PTY)	CAI1931
	49	Button(SEEK/TRACK)	CAI1883
	50	Button(1/RAND)	CAI1585
	51	Button(2/RPT)	CAI1586
	52	Button(3/DISC DOWN)	CAI1932
	53	Button(4/DISC UP)	CAI1933
	54	Button(5/FLDR DOWN)	CAI1589
	55	Button(6/FLDR UP)	CAI1590
	56	Button(TEXT)	CAI1591
	57	Button(AF)	CAI1934
	58	Panel Assy	CPN2976

9.5 EXTERIOR (5)

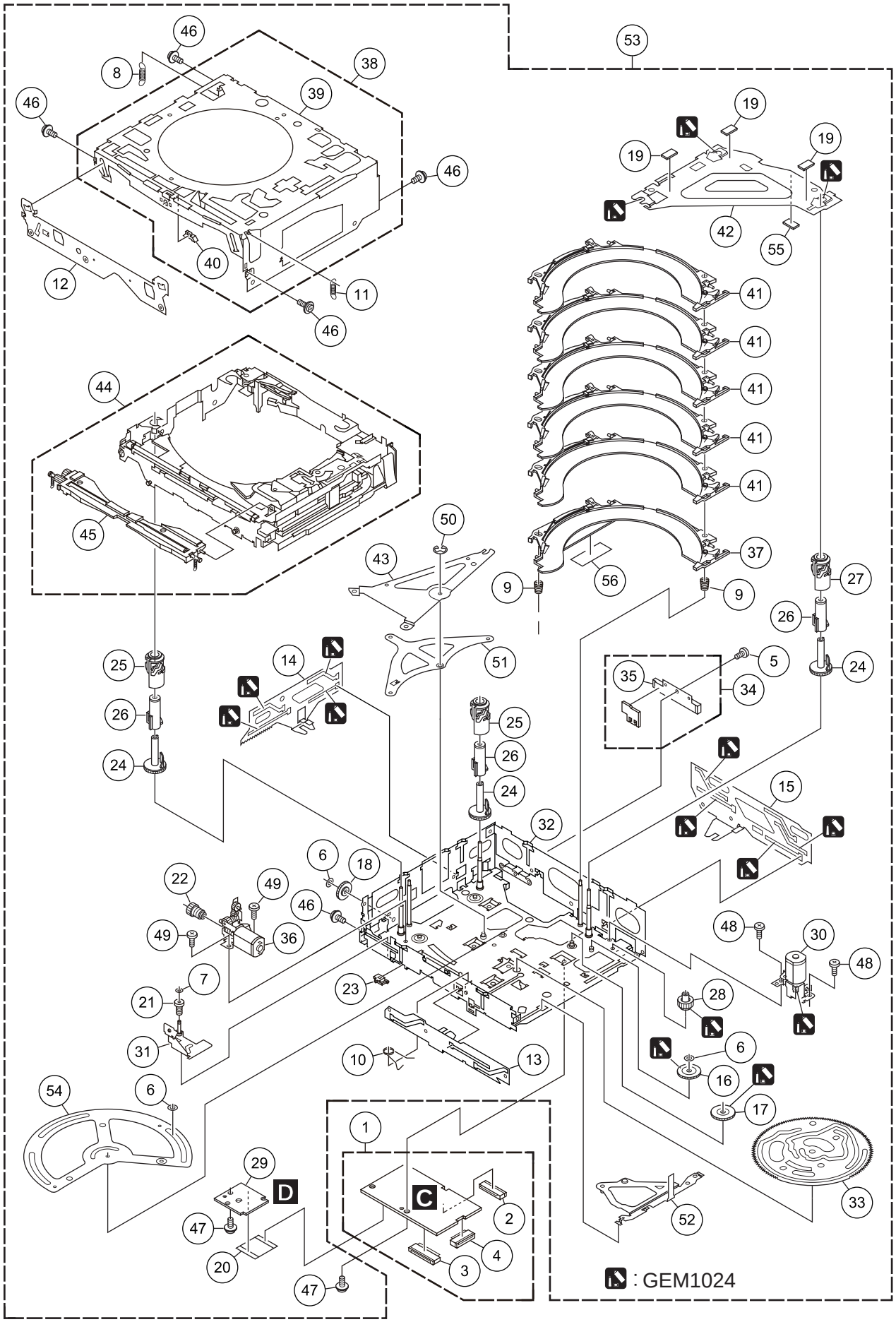


EXTERIOR (5) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Connectoe	CDE8519
	2	Screw	BMZ30P040FTC
	3	Screw	BSZ26P040FTC
	4	Screw(M2.6 x 10)	CBA1798
	5	Connector	CDE8484
	6	Chassis	CNA2990
	7	Holder	CNB3435
	8	Holder	CND3538
	9	Insulator	CNN1745
	10	Main Unit	CWN2680
	11	Screw(M3 x 6)	CBA2120
	12	Connector(CN401)	CKS3859
	13	Connector(CN402)	CKS3859
	14	Connector(CN302)	CKS3863
	15	Connector(CN201)	CKS3871
	16	Connector(CN403)	CKS4853
	17	Shield	CND3768
	18	Shield	CND3995
	19	Holder	CND4104
	20	Shield	CND4212
	21	Insulator	CNN2579
	22	FM/AM Tuner Unit(U101)	CWE2029
	23	Holder	CND3485
	24	Connector(CN901)	VKN1928
	25	Connector Unit	CWN2684
	26	Screw(M3 x 6)	CBA2120
	27	Connector(CN2001)	CKS3890
	28	Fan Motor	CXM1377
	29	Screw	PMH26P060FTC
	30	Screw	ASZ26P050FTC
	31	Screw	BSZ26P050FTC
	32	Chassis	CND4231
	33	Case	CND4527
	34	Sheet	CNN2530
	35	Holder	CNW1131
	36	Panel Control Unit	CWN3773
	37	Screw(M3 x 6)	CBA2154
	38	Plug(CN2801)	CKM1563
	39	Connector(CN2802)	CKS5732
	40	Screw	IMS26P050FTC
	41	Connector(JA2002)	CKM1467
	42	Connector(JA2003)	CKM1480
	43	Connector(JA301)	CKM1469
	44	Connector(JA303)	CKM1466
	45	Connector(JA101)	CKS5700
	46	Connector(CN1)	CKS5866
	47	Connector(CN2)	CKS5866

The screw (4:CBA1798) can not be used again when removing once.
Please exchange it for new parts when you remove the screw from the product.

9.6 CD MECHANISM MODULE



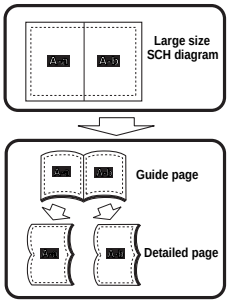
CD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Control Unit	CWX3490
	2	Connector(CN102)	CKS4911
	3	Connector(CN902)	CKS4914
	4	Connector(CN101)	CKS5682
	5	Screw	BMZ20P025FTC
	6	Washer	CBF1064
	7	Washer	CBF1098
	8	Spring	CBH2731
	9	Spring	CBH2950
	10	Spring	CBH2983
	11	Spring	CBH3033
	12	Lever	CND3569
	13	Stair	CND3570
	14	Stair	CND3571
	15	Stair	CND3572
	16	Gear	CND3821
	17	Gear	CND3822
	18	Gear	CND3823
	19	Sheet	CNM9680
	20	Flexible PCB	CNP7958
	21	Gear	CNV9222
	22	Gear	CNV9227
	23	Holder	CNV9232
	24	Cam	CNV9238
	25	Cam	CNV9239
	26	Cam	CNV9240
	27	Cam	CNV9241
	28	Gear	CNV9713
	29	PCB Assy	CWX3613
	30	Cam Motor Assy	CXC5908
	31	Lever Unit	CXC6760
	32	Chassis Unit	CXC6764
	33	Cam Gear Unit	CXC6765
	34	PCB Assy	CXC6770
	35	Volume	CCW1023
	36	ELV Motor Assy	CXC6773
	37	Under Tray Assy	CXC6776
	38	Upper Case Assy	CXC6777
	39	Case	CND3574
	40	Lighting Conductor	CNV9231
	41	Tray Assy	CXC7035
	42	Holder Unit	CXC8232
	43	Arm Unit	CXC9651
	44	Service Stage Assy	CXX2386
	45	Load Arm Assy	CXC7034
	46	Screw	IMS20P025FTC
	47	Screw	IMS26P025FTC
	48	Screw	JFZ20P020FTC
	49	Screw	JGZ20P022FTC
	50	Washer	YE15FTC
*	51	Arm	CND1933
*	52	Lever Unit	CXC9650
	53	Service Mechanism Unit(G4)	CXX2385
*	54	Gear	CND1924
	55	Sheet	CNN2387
	56	Sheet	CNN1310

10. SCHEMATIC DIAGRAM

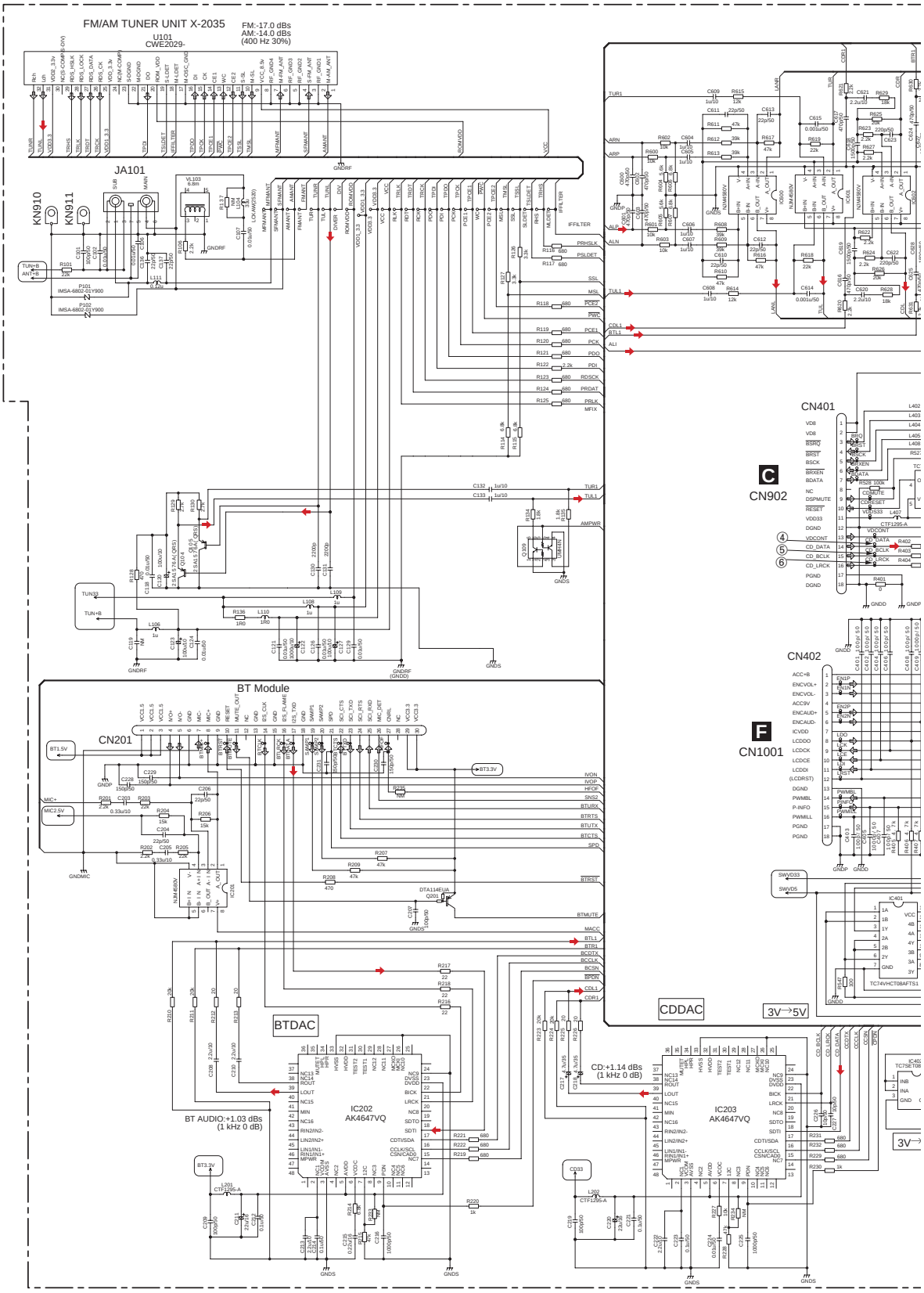
10.1 MAIN UNIT (MAIN)(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

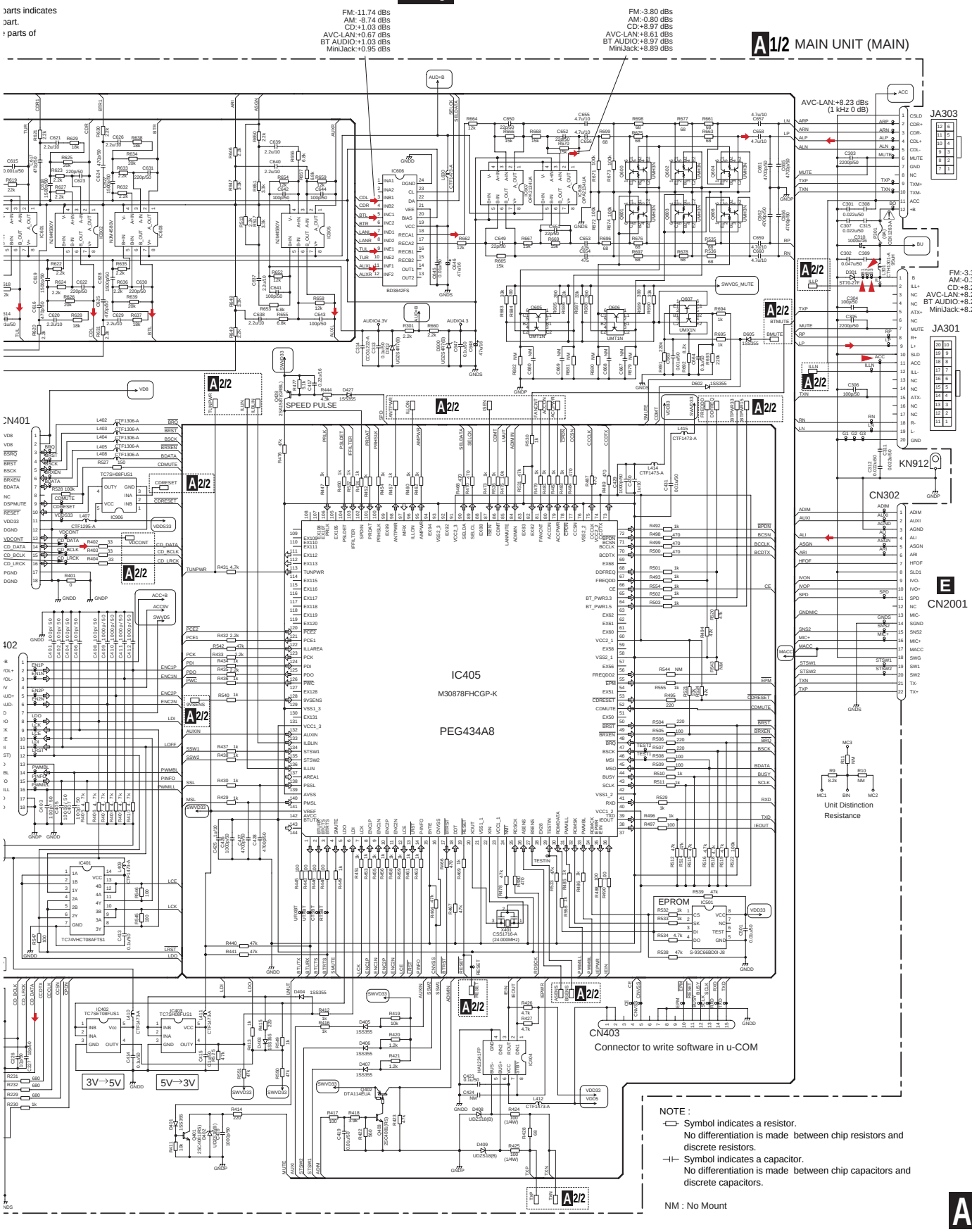


A-a 1/2

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



A 1/2


A1/2 MAIN UNIT (MAIN)
FM:-11.74 dBs
AM: -8.74 dBs
CD:+1.03 dBs
AVC-LAN:+0.67 dBs
BT AUDIO:+1.03 dBs
MiniJack:+0.95 dBs
FM:-3.80 dBs
AM:-0.80 dBs
CD:+8.97 dBs
AVC-LAN:+8.61 dBs
BT AUDIO:+8.97 dBs
MiniJack:+8.89 dBs
AVC-LAN:+8.23 dBs
(1 kHz 0 dB)
JA303
JA301
FM:-3.30 dBs
AM:-0.30 dBs
CD:+8.23 dBs
AVC-LAN:+8.23 dBs
BT AUDIO:+8.23 dBs
MiniJack:+8.23 dBs
KN912
CN302
CN2001
CN401
CN402
CN403
Connector to write software in u-COM
IC405
M30878FHCGP-K
PEG434A8
EPROM
SPEED PULSE
Unit Distinction Resistance
3V→5V
5V→3V
NOTE :
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
NM : No Mount

A-b 1/2

A-a | A-b

FM:-11.74 dBs
AM: -8.74 dBs
CD:+1.03 dBs
AVC-LAN:+0.67 dBs
BT AUDIO:+1.03 dBs
MiniJack:+0.95 dBs

FM:-3.80 dBs
AM:-0.80 dBs
CD:+8.97 dBs
AVC-LAN:+8.61 dBs
BT AUDIO:+8.97 dBs
MiniJack:+8.89 dBs

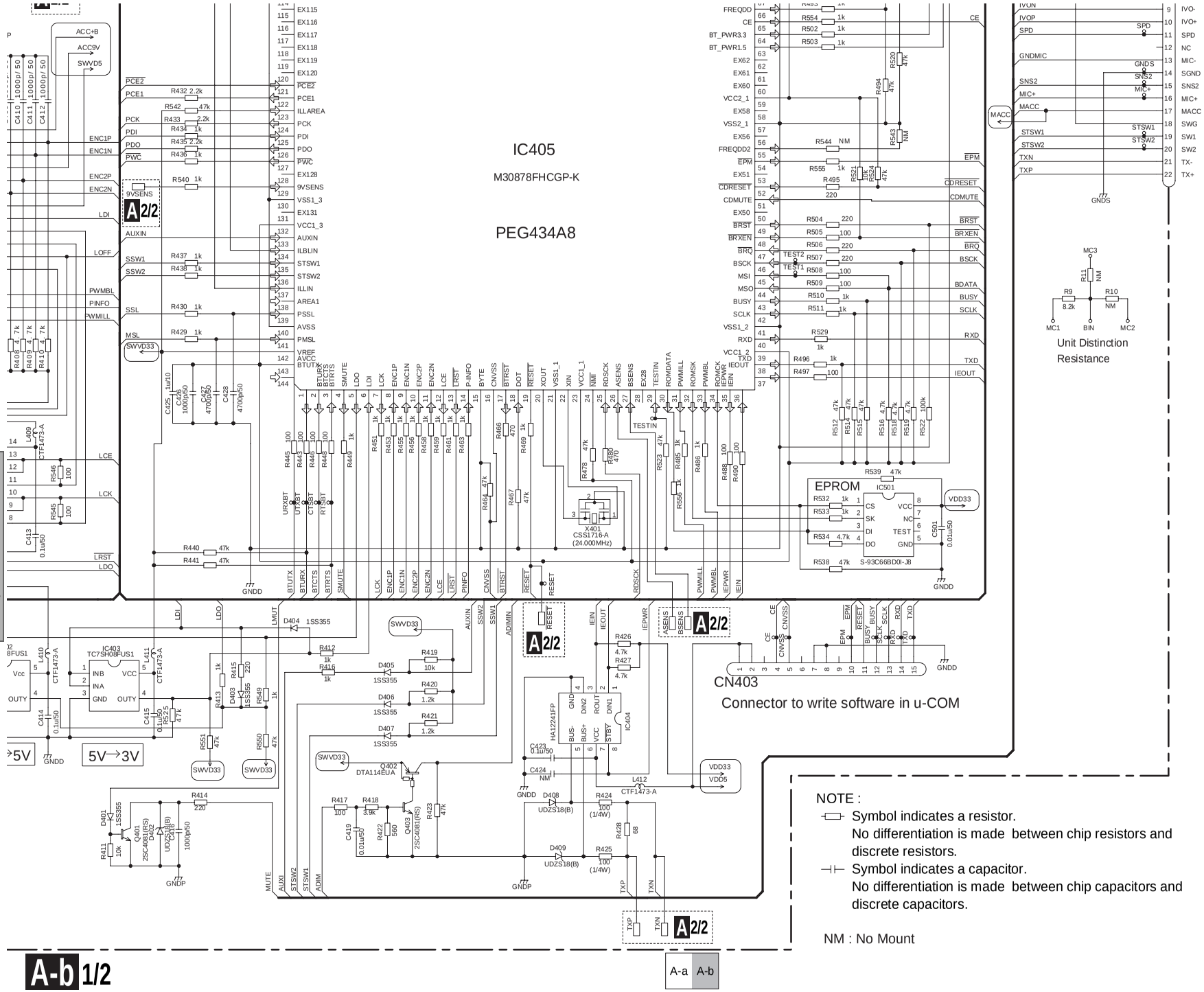
A1/2 MAIN UNIT (MAIN)

AVC-LAN:+8.23 dBs
(1 kHz 0 dB)

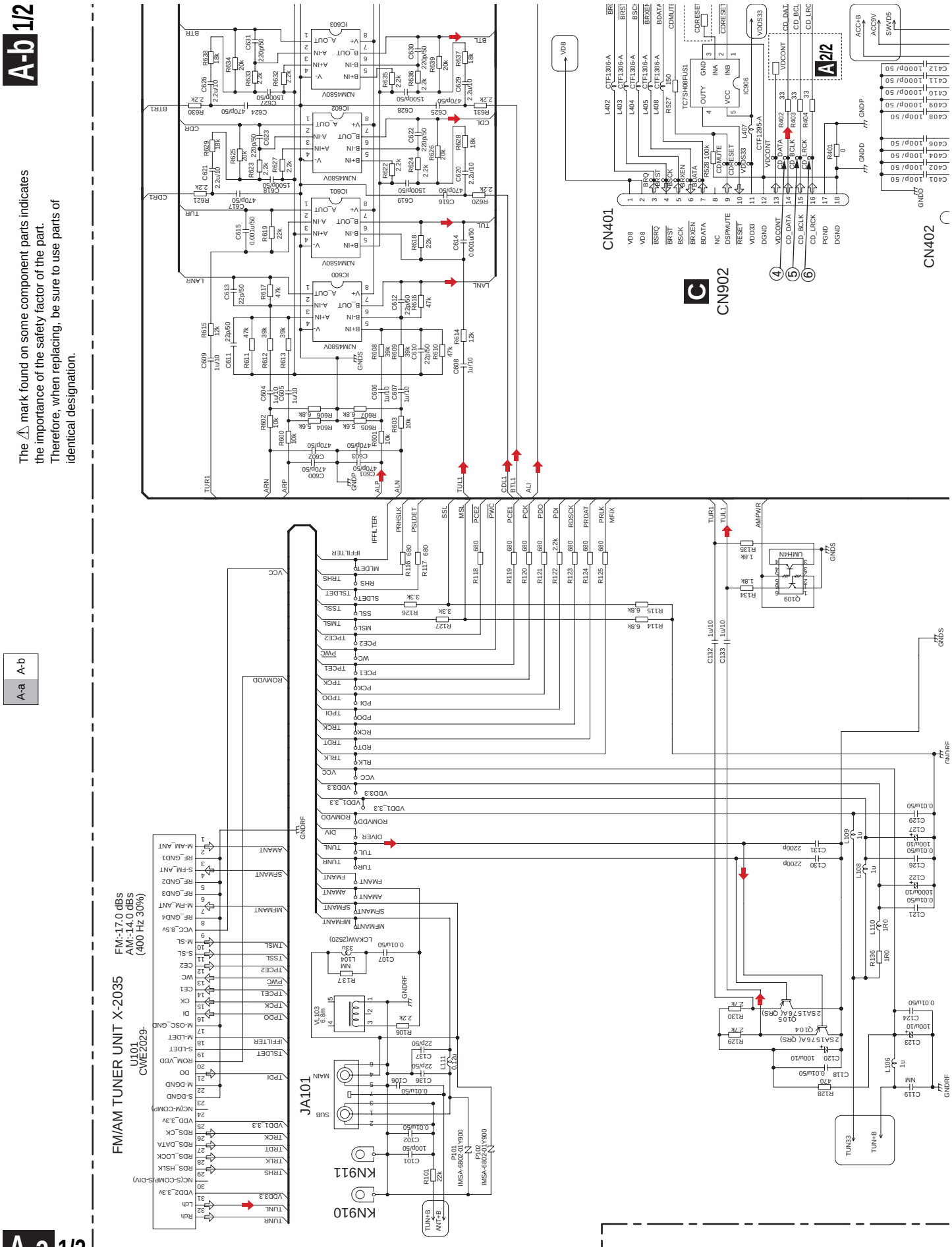
FM:-3.30 dBs
AM:-0.30 dBs
CD:+8.23 dBs
AVC-LAN:+8.23 dBs
BT AUDIO:+8.23 dBs
MiniJack:+8.23 dBs

JA303
JA301
KN912
CN302
CN2001

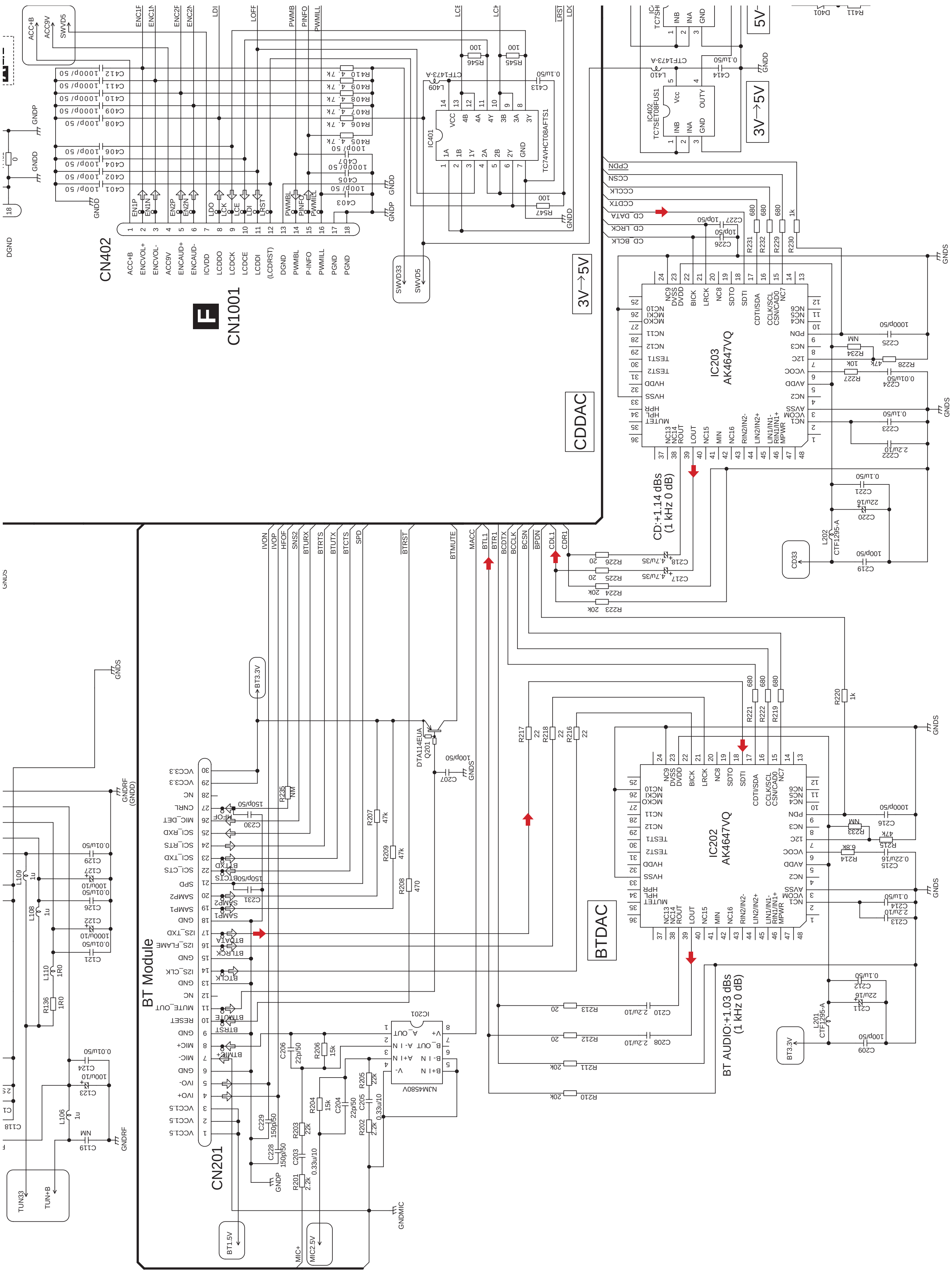
SPEED PULSE


IC405
M30878FHCGP-K
PEG434A8
CN2001
EPROM
IC501
S-93C66BD0I-J8
X401
CSS1716-A
(24.000MHz)
CN403
Connector to write software in u-COM
Unit Distinction
Resistance
NOTE :
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
NM : No Mount
A-b 1/2
A-a
A-b
DEX-MG9487ZT/EW

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.



5 6 7 8



A
B
C
D
E
F

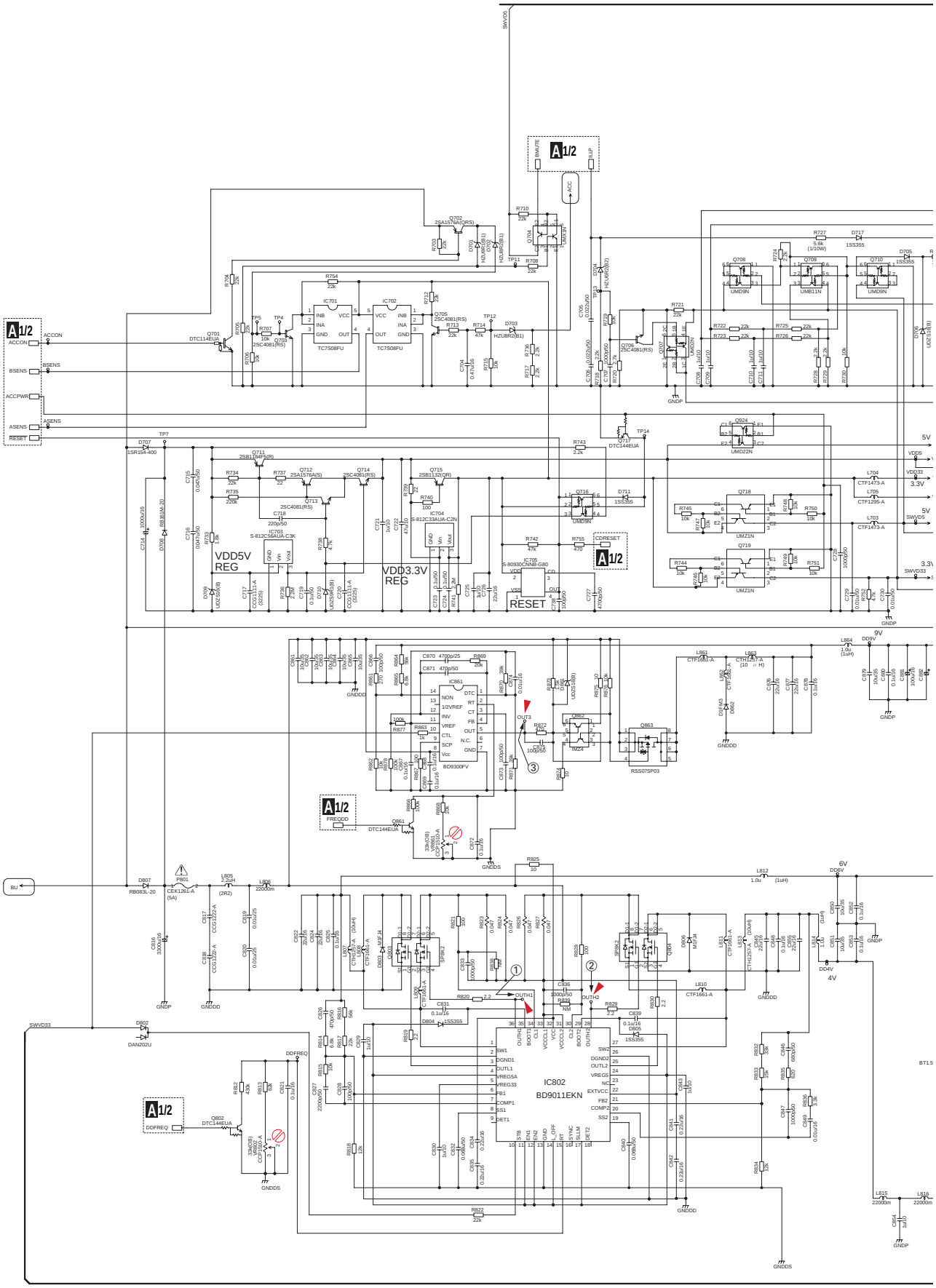
A-b 1/2

A-a A-b

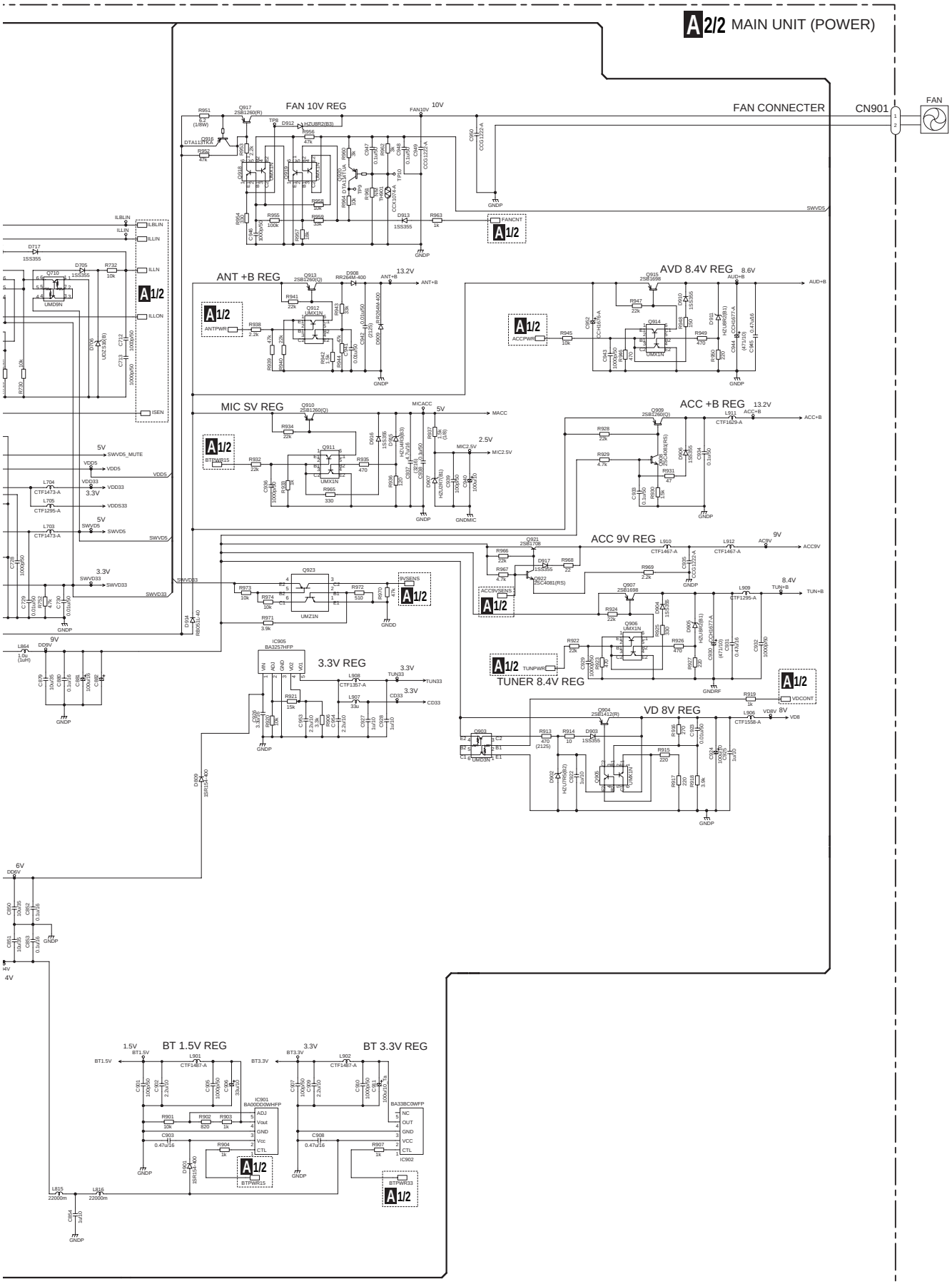
A-a 1/2

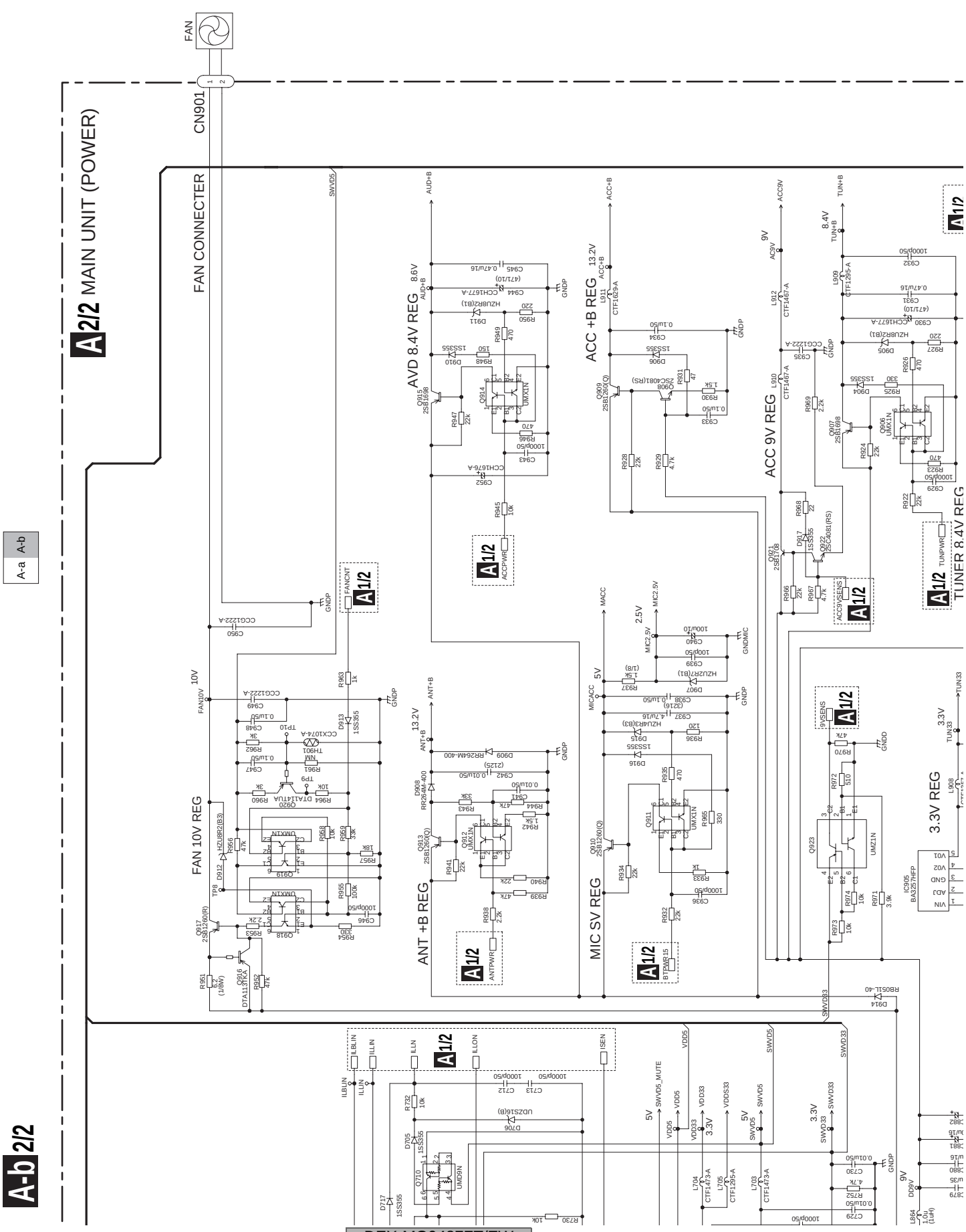
10.2 MAIN UNIT (POWER)(GUIDE PAGE)

A-a 2/2

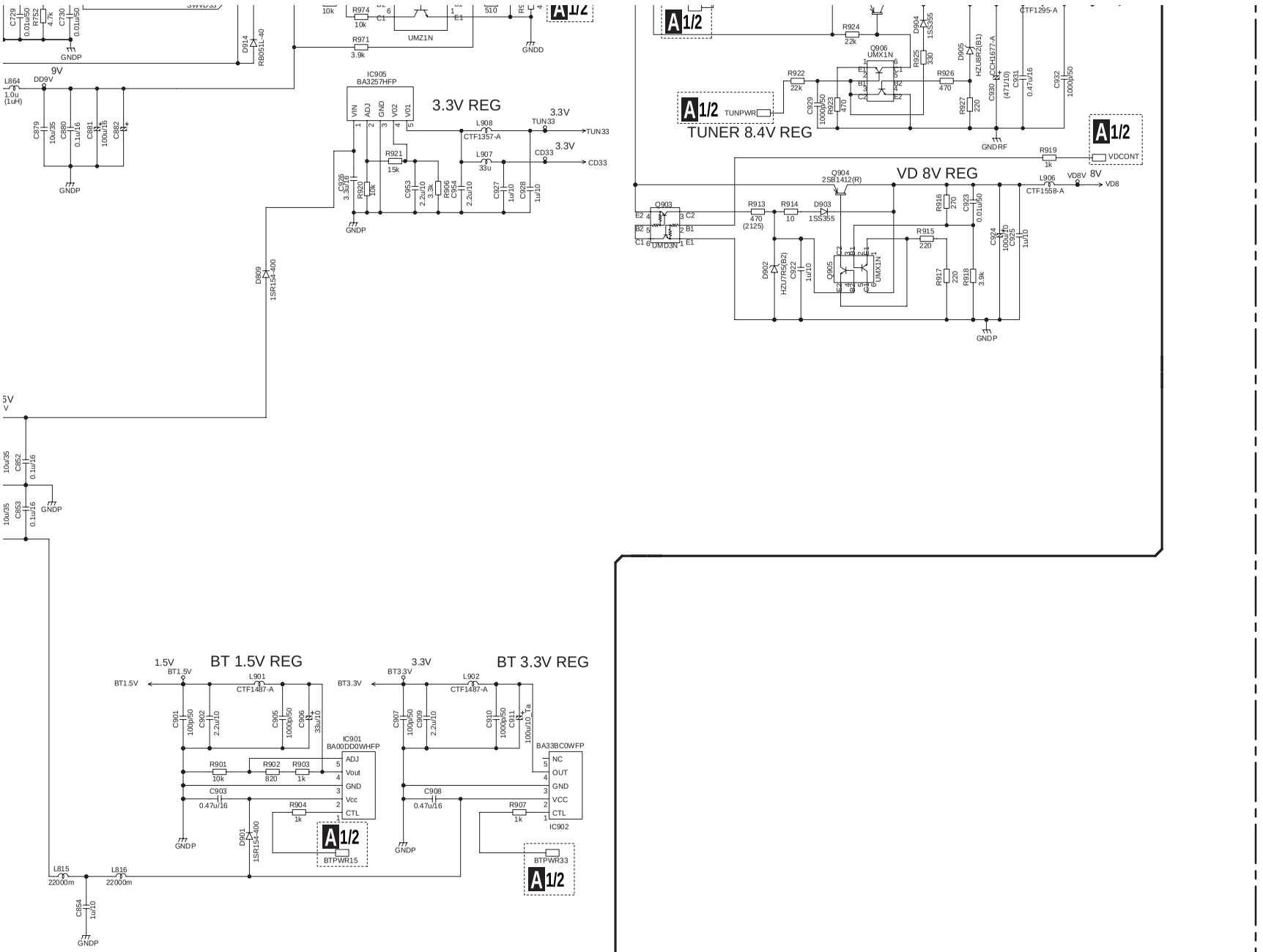


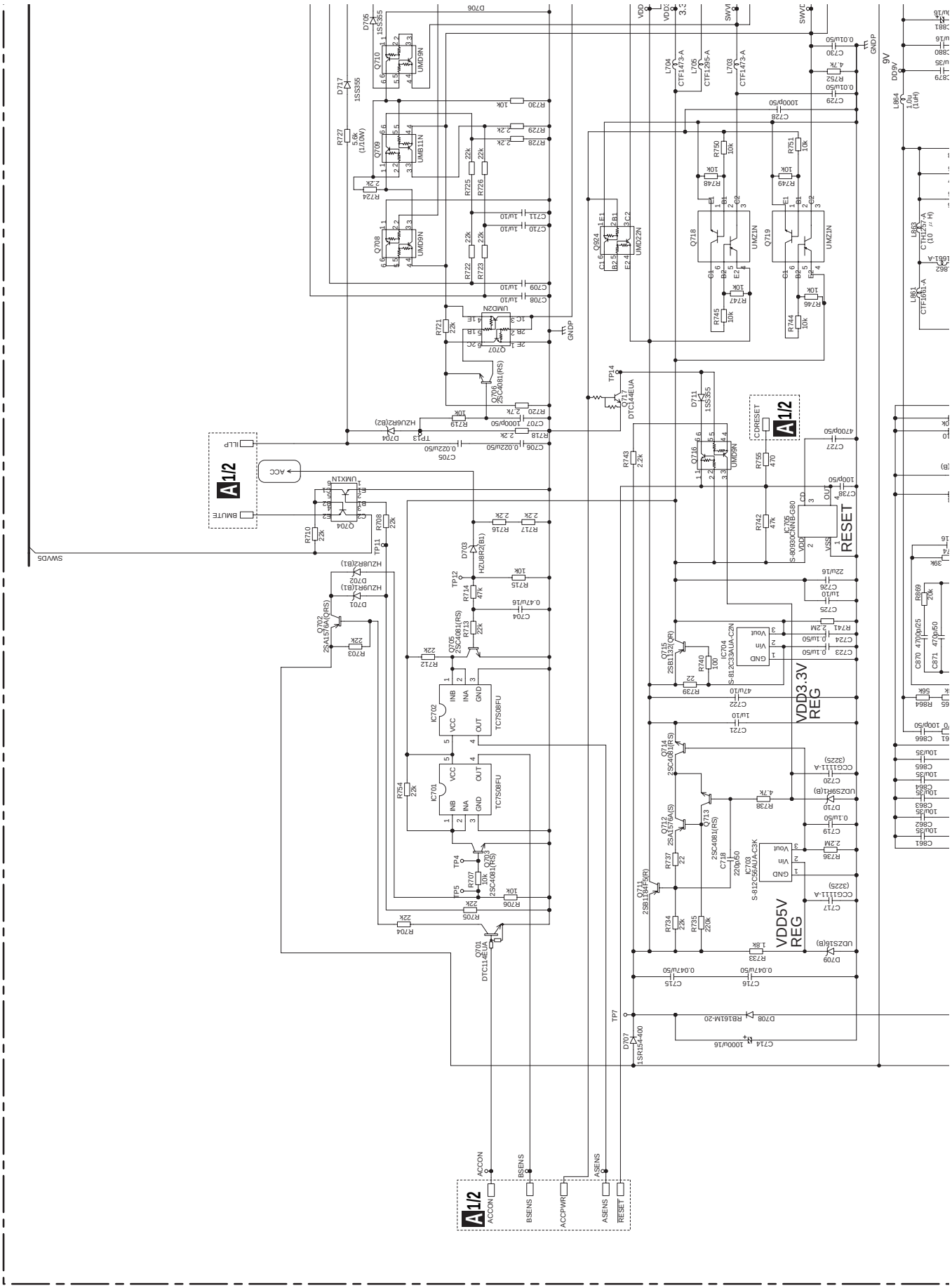
A2/2

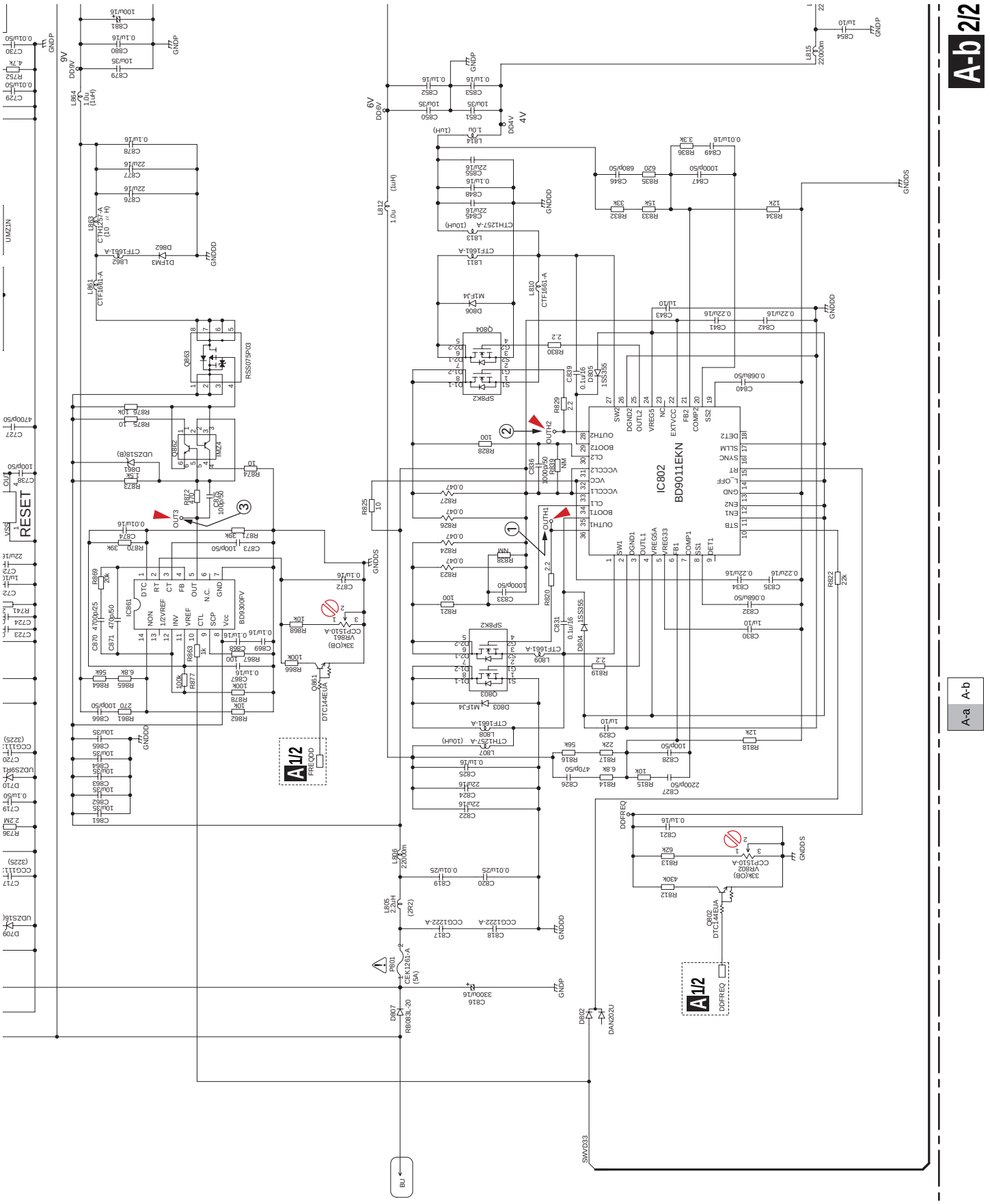

A2/2 MAIN UNIT (POWER)
FAN 10V REG
FAN CONNECTER
CN901
FAN
ANT +B REG
AVD 8.4V REG
MIC 5V REG
ACC +B REG
ACC 9V REG
TUNER 8.4V REG
VD 8V REG
3.3V REG
BT 1.5V REG
BT 3.3V REG
ILBLIN
ILLIN
ILLN
ILLON
ISEN
SWVDS_MUTE
VDD5
VDD33
VDDS33
SWVDS
SWVD33
ANTPWR
ACCPWR
BTPWR15
MICACC
MIC2.5V
FANCNT
TUNPWR
VDCONT
BTPWR33
ACC9VSENS
9VSENS
GNDP
GNDD
GNDMIC
GNDRF



DEX-MG9487ZT/EW

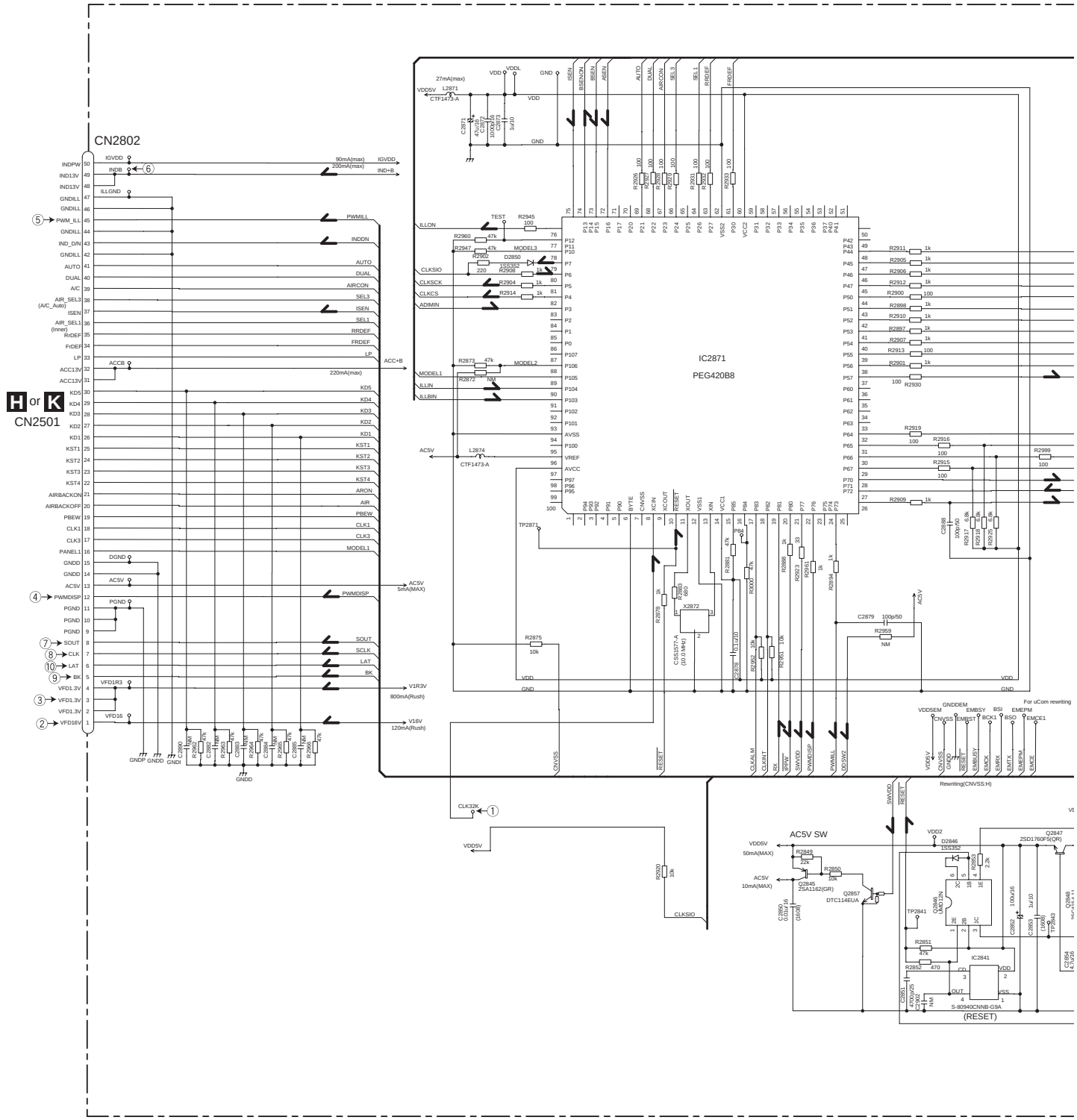

DEX-MG9487ZT/EW
TUNER 8.4V REG
VD 8V REG
3.3V REG
BT 1.5V REG
BT 3.3V REG
A1/2
A-b 2/2
A-a
A-b


A1/2
ACC
BMUTE
ILLP
SWVDS
RESET
VDD3.3V REG
VDD5V REG
ACCON
BSENS
ACCPWR
ASENS
RESET
GNDP
9V


A-b 2/2
A-a 2/2
IC802
BD9011EKN
RESET
A1/2
FREQDD
DDFREQ
A-b
A-a

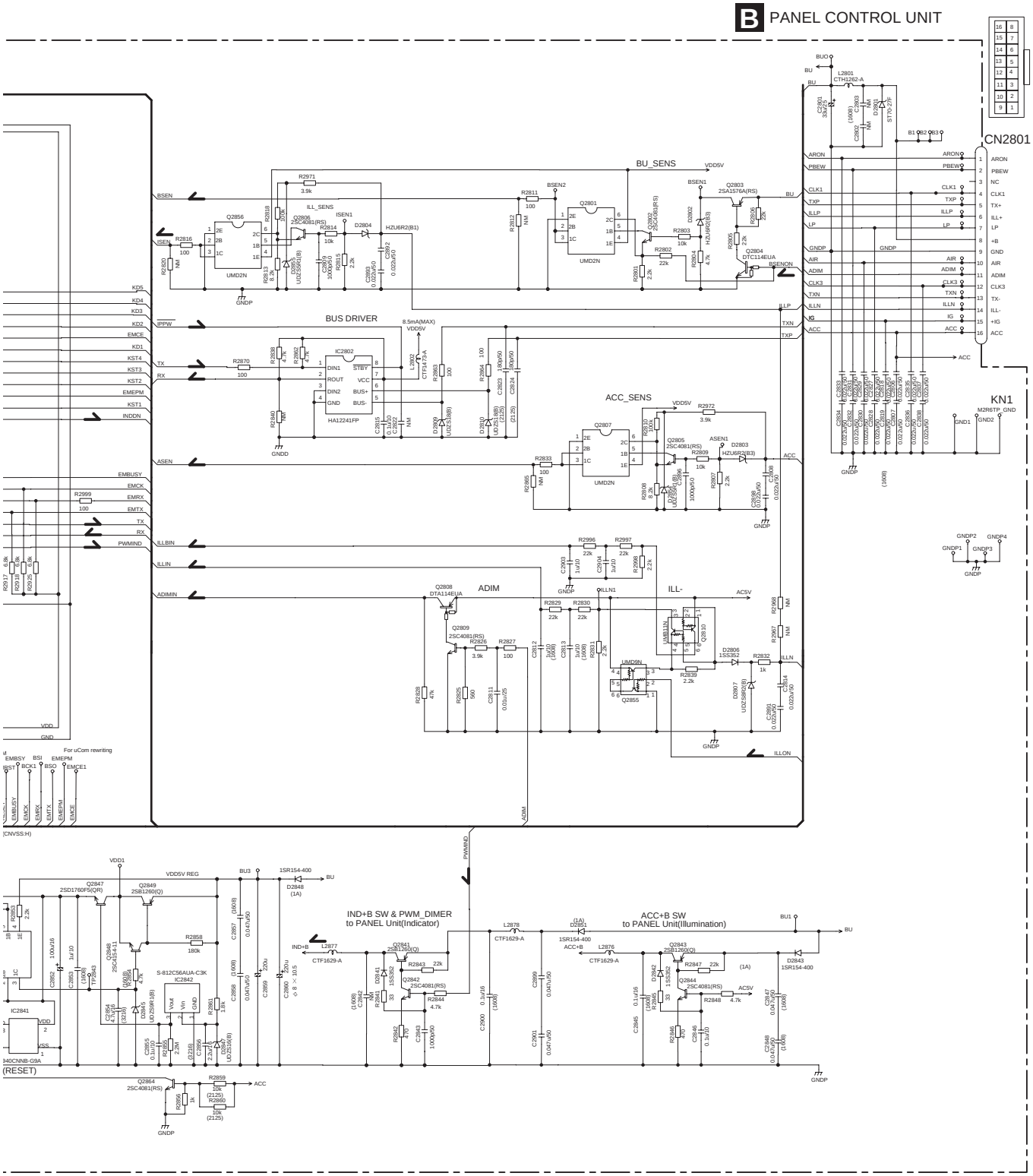
10.3 PANEL CONTROL UNIT(GUIDE PAGE)

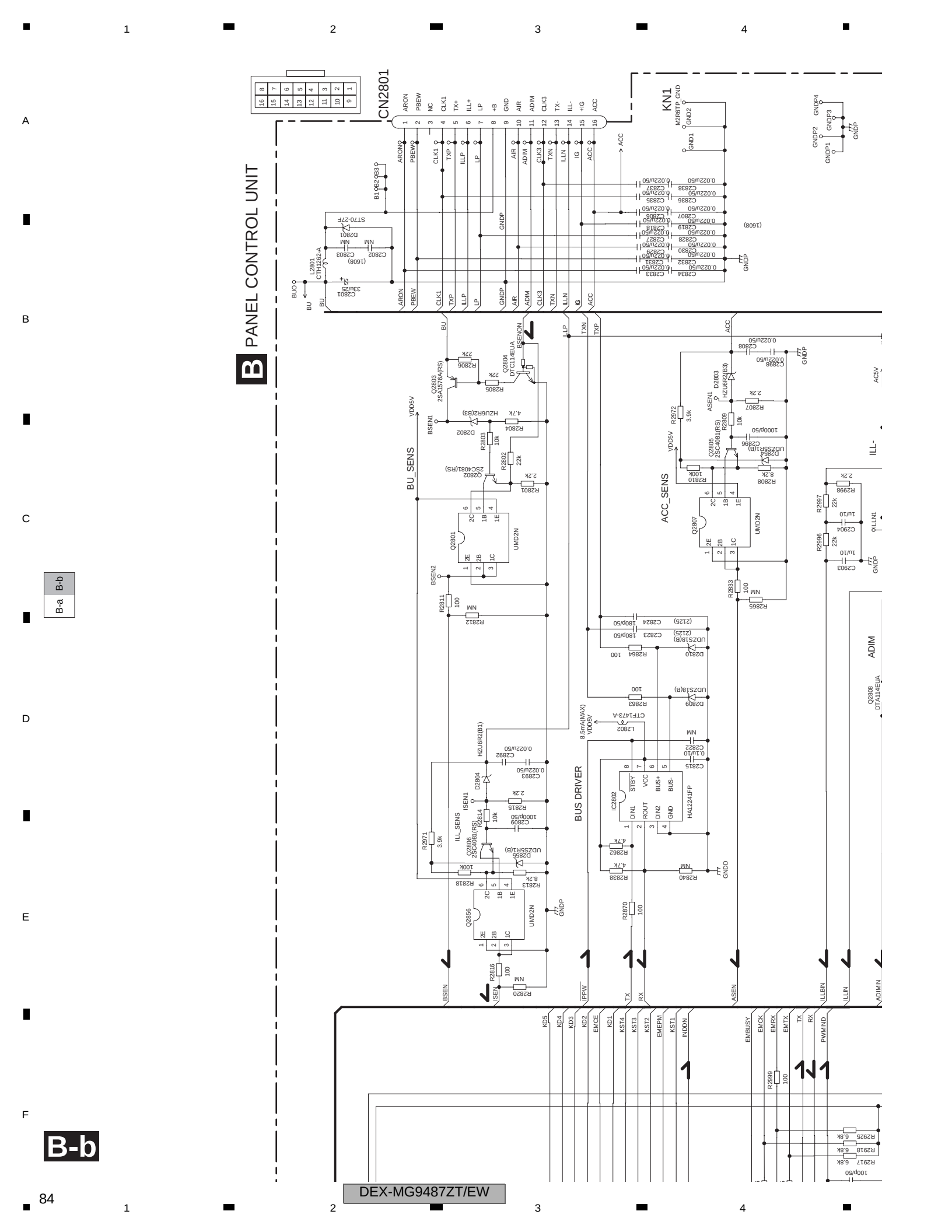
B-a

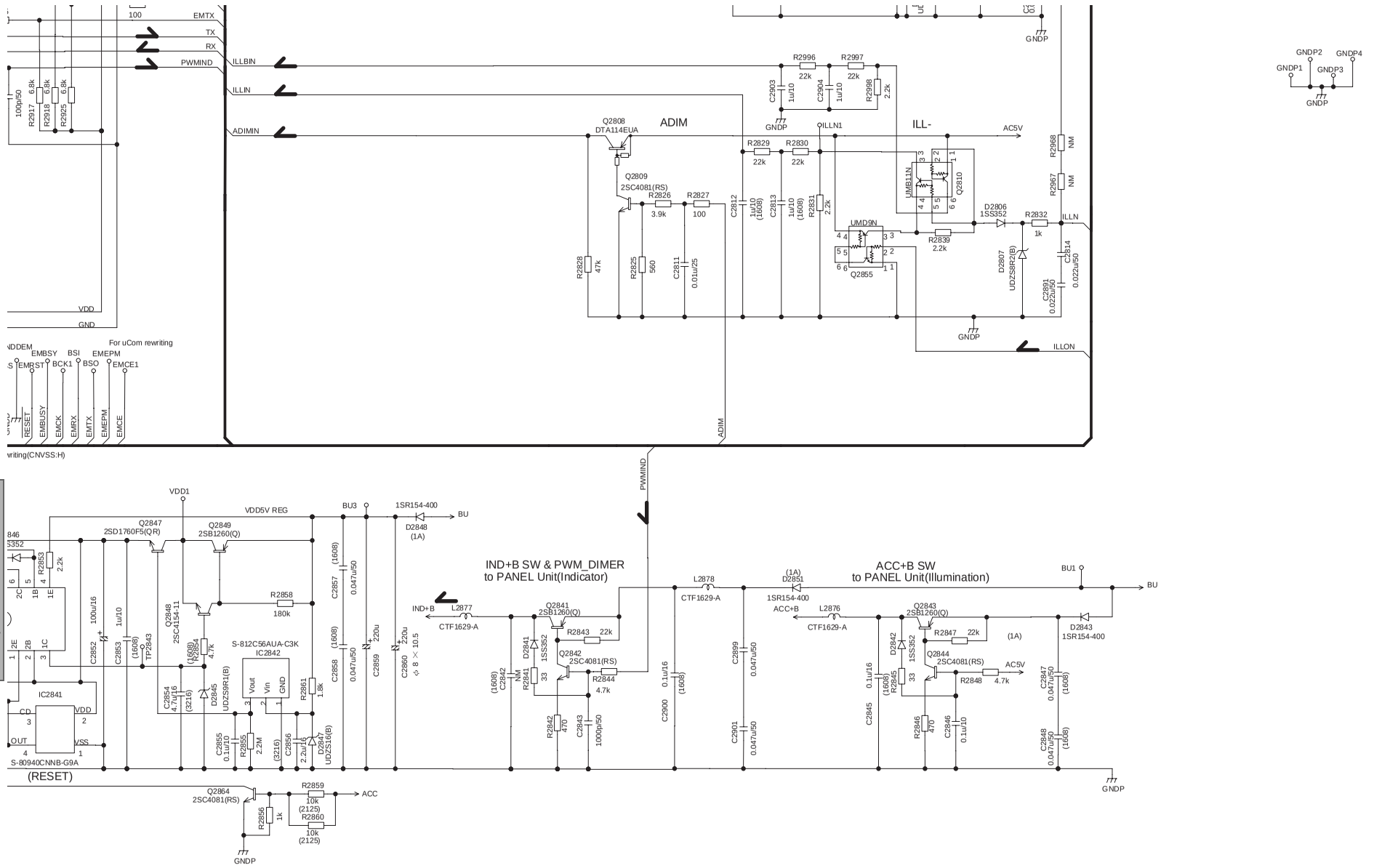


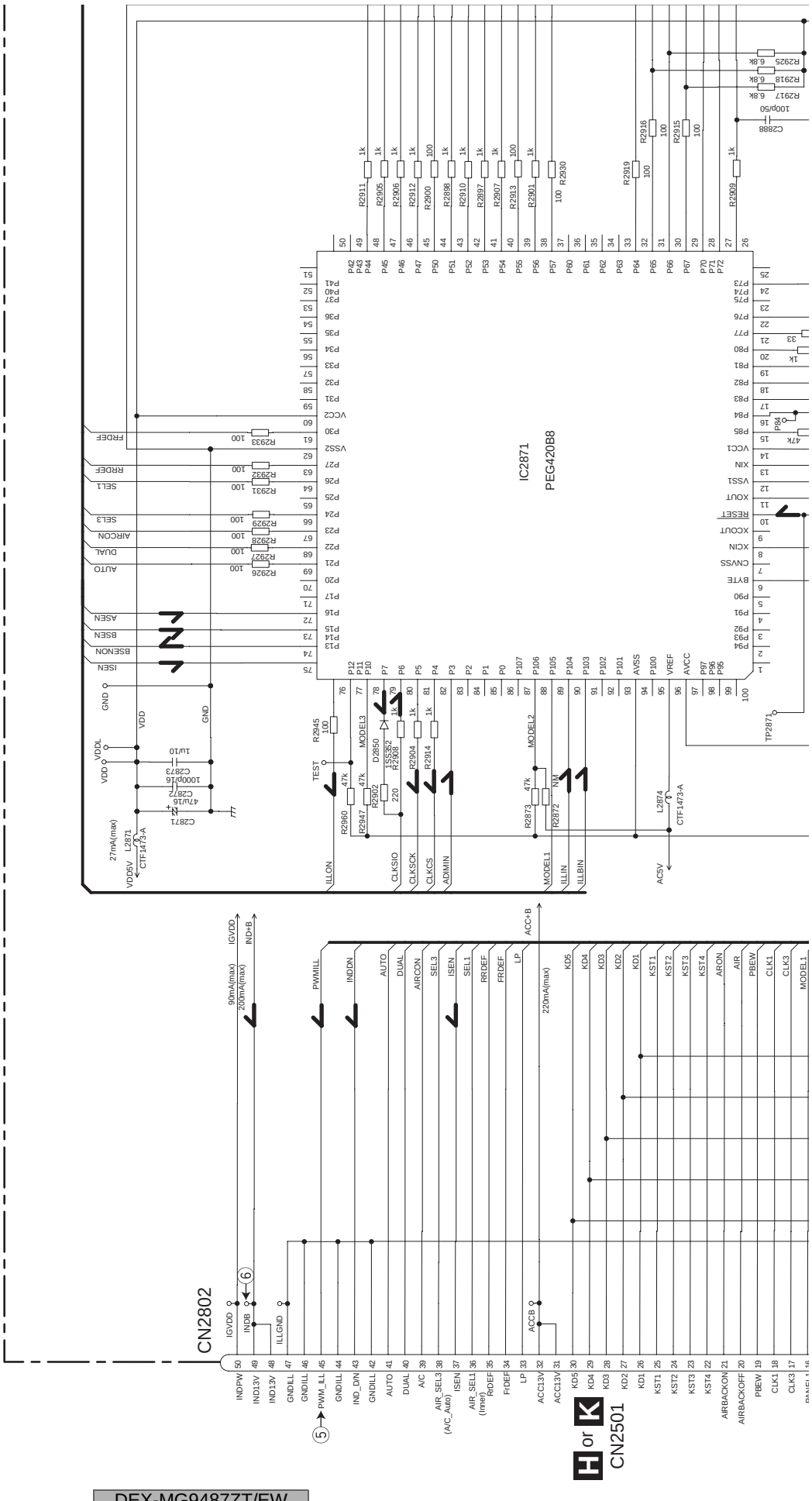
B

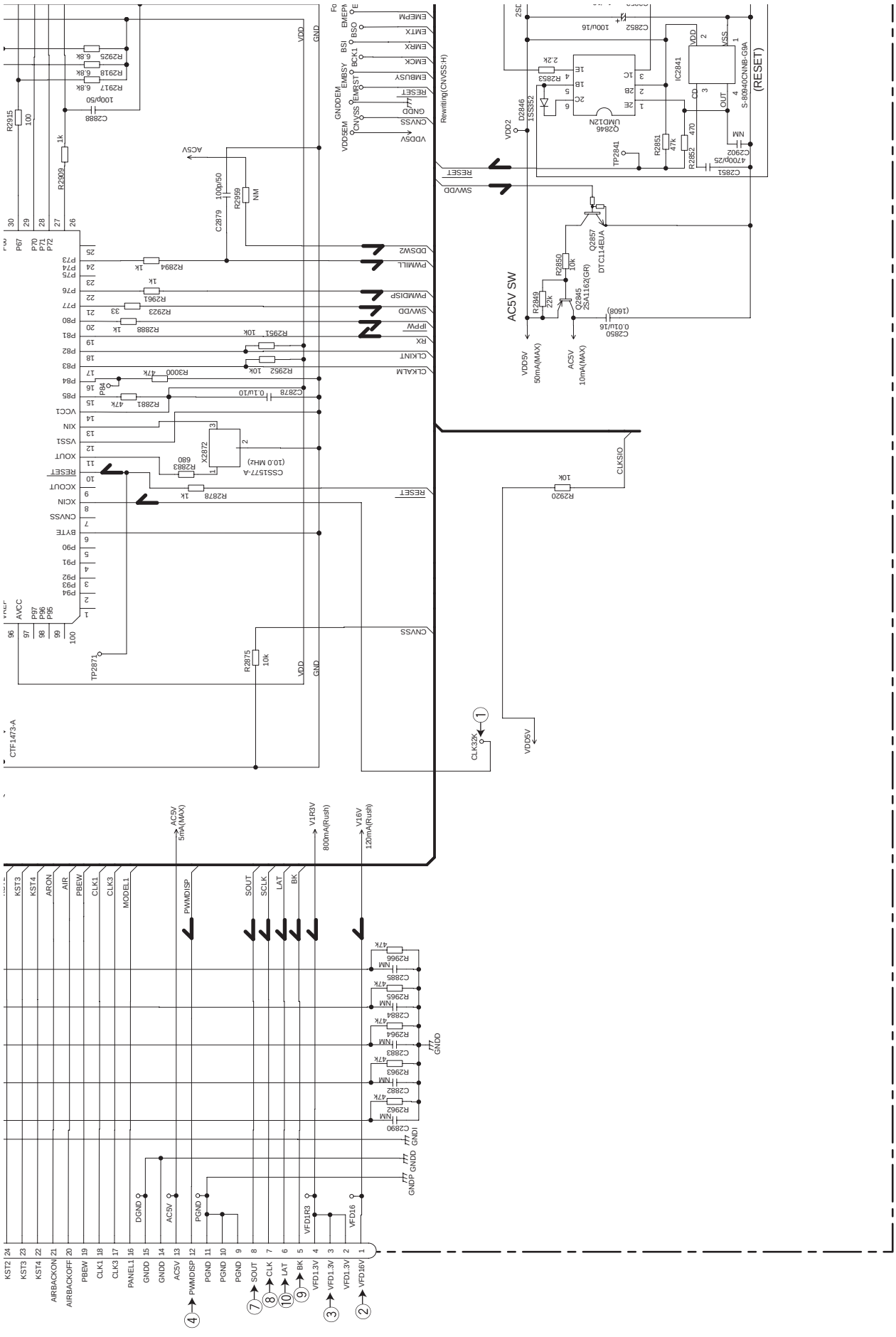
B PANEL CONTROL UNIT




B PANEL CONTROL UNIT
CN2801
KN1
BU_SENS
ACC_SENS
BUS DRIVER
ILL_SENS
ADIM
ILL-
B-a
B-b
B-b


EMTX
TX
RX
PWMIND
ILLBIN
ILLIN
ADIMIN
VDD
GND
For uCom rewriting
EMBSY
BSI
EMEPM
EMRST
BCK1
BSO
EMCE1
RESET
EMBUSY
EMCK
EMRX
EMTX
EMEPM
EMCE
writing(CNVSS:H)
ADIM
ILL-
ILLN1
AC5V
ILLN
ILLON
GNDP
GNDP1
GNDP2
GNDP3
GNDP4
PWMIND
VDD1
VDD5V REG
BU3
BU
BU1
1SR154-400
D2848
(1A)
IND+B SW & PWM_DIMER
to PANEL Unit(Indicator)
ACC+B SW
to PANEL Unit(Illumination)
IND+B
ACC+B
CTF1629-A
L2877
L2876
L2878
D2851
S-812C56AUA-C3K
IC2842
S-80940CNNB-G9A
IC2841
(RESET)
ACC
Q2808
DTA114EUA
Q2809
2SC4081(RS)
Q2855
UMB1N
UMD9N
Q2810
D2806
1SS352
D2807
UDZS8R2(B)
Q2847
2SD1760F5(QR)
Q2849
2SB1260(Q)
Q2841
2SB1260(Q)
Q2842
2SC4081(RS)
Q2843
2SB1260(Q)
Q2844
2SC4081(RS)
Q2848
2SC4154-11
Q2864
2SC4081(RS)
D2845
UDZS9R1(B)
D2846
UDZS16(B)
D2841
1SS352
D2842
1SS352
R2996
R2997
R2998
R2917
R2918
R2925
R2828
R2825
R2826
R2827
R2829
R2830
R2831
R2832
R2839
R2968
R2967
R2853
R2858
R2855
R2856
R2859
R2860
R2861
R2841
R2842
R2843
R2844
R2845
R2846
R2847
R2848
C2903
C2904
C2812
C2813
C2811
C2814
C2852
C2853
C2854
C2855
C2856
C2857
C2858
C2859
C2860
C2899
C2900
C2901
C2845
C2848
TP2843
DEX-MG9487ZT/EW
B-b
B-a
B-b
85


IC2871
PEG420B8
CN2802
CN2501
H or K
B-a
DEX-MG9487ZT/EW



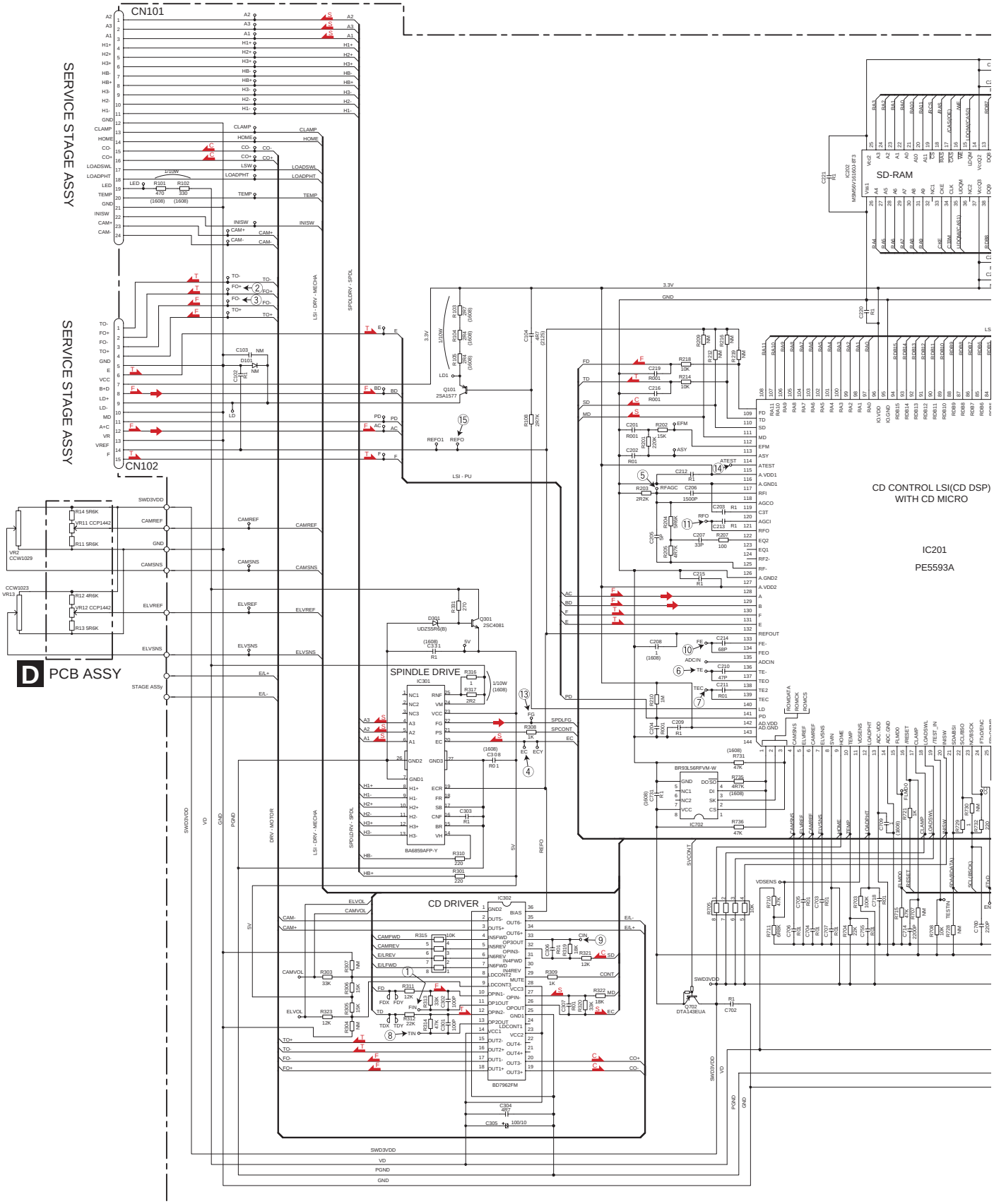
B-b

B-a

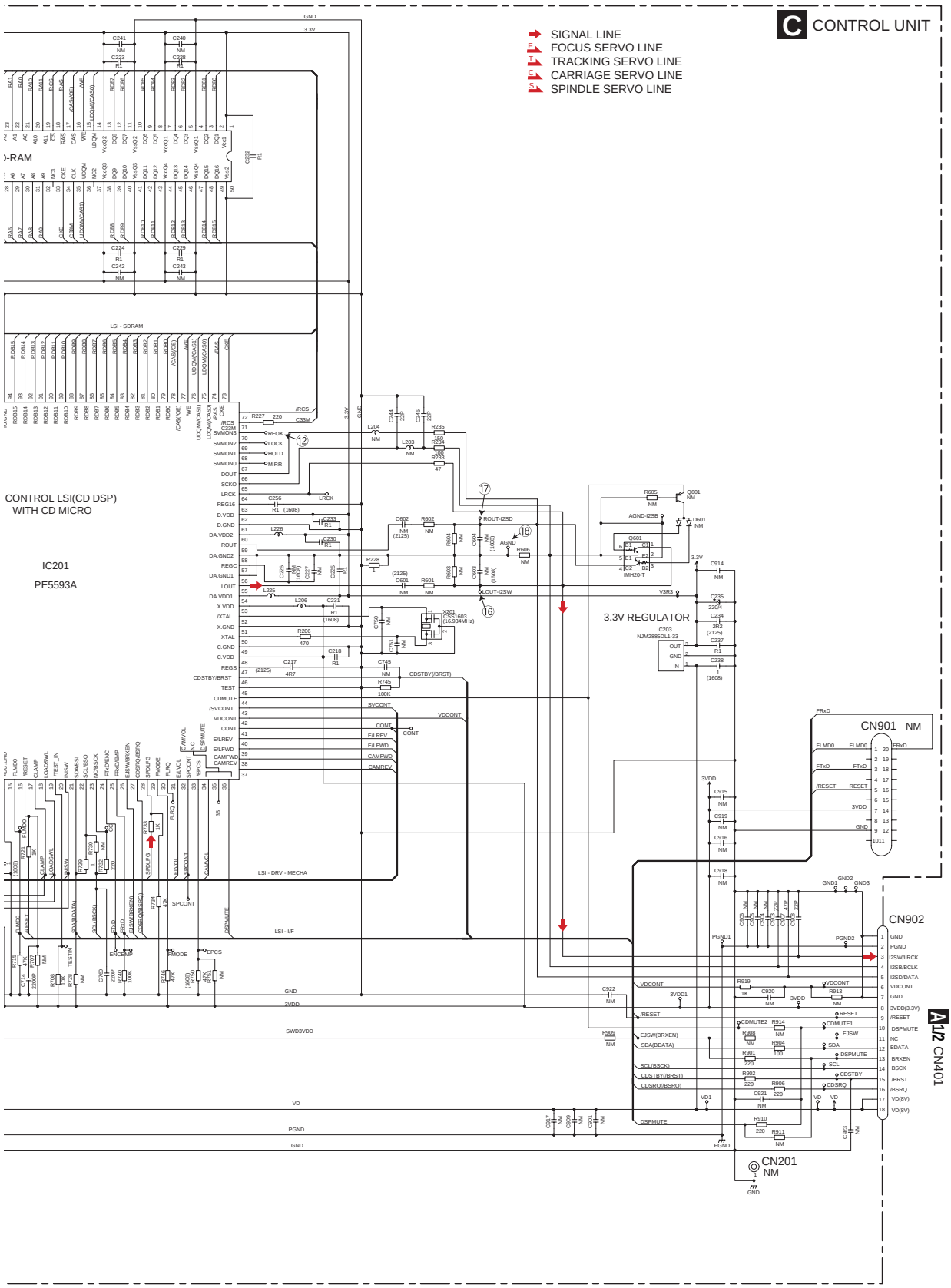
DEX-MG9487ZT/EW

10.4 CD MECHANISM MODULE(GUIDE PAGE)

C-a

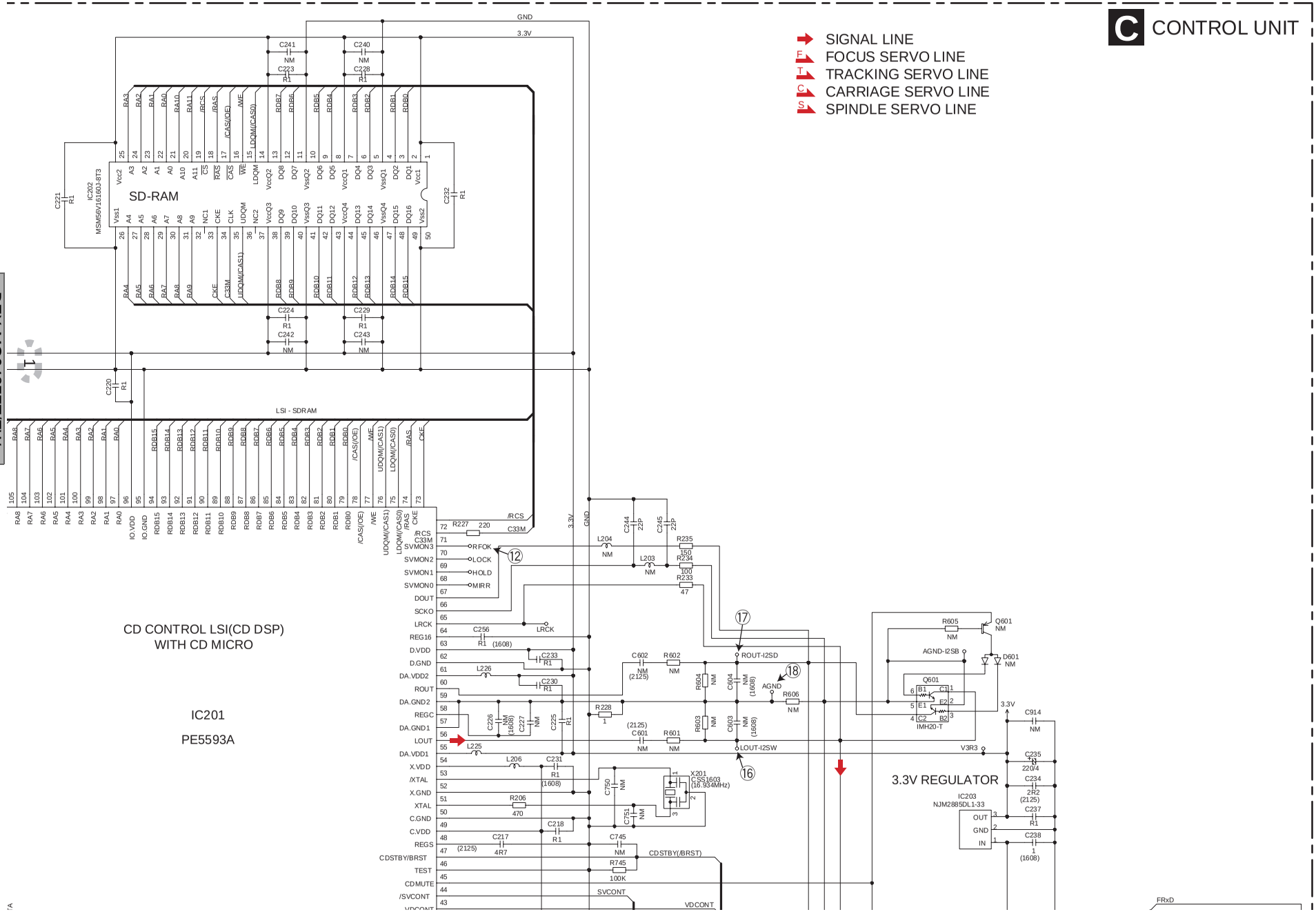


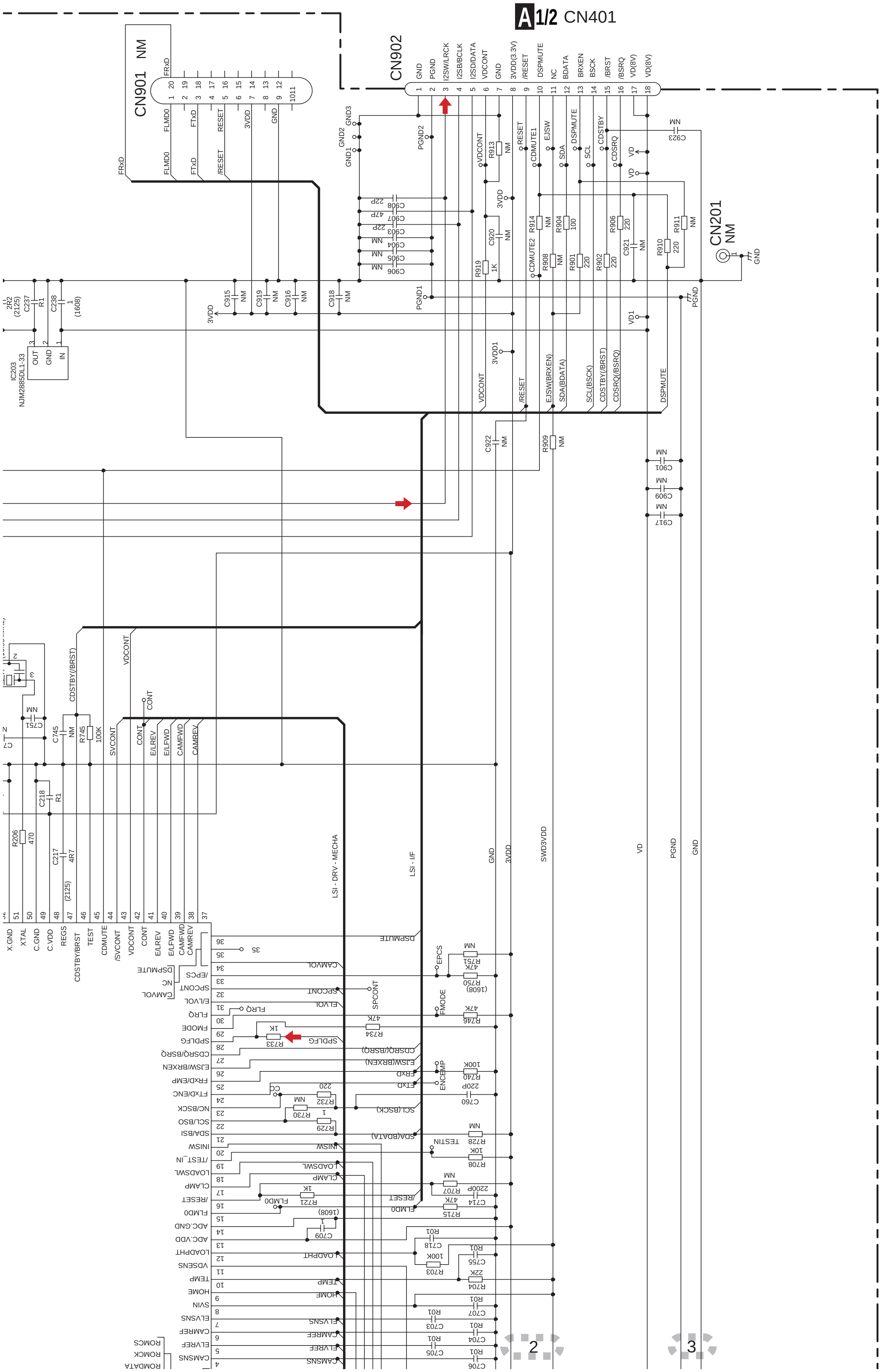
C D


C CONTROL UNIT
SIGNAL LINE
FOCUS SERVO LINE
TRACKING SERVO LINE
CARRIAGE SERVO LINE
SPINDLE SERVO LINE
CONTROL LSI(CD DSP)
WITH CD MICRO
IC201
PE5593A
3.3V REGULATOR
IC203
NJM2885DL1-33
CN901 NM
CN902
CN201
NM
CN401
LSI - SDRAM
LSI - DRV - MECHA
LSI - I/F
GND
3.3V
3VDD
SWD3VDD
VD
PGND

C CONTROL UNIT

SIGNAL LINE
F FOCUS SERVO LINE
T TRACKING SERVO LINE
C CARRIAGE SERVO LINE
S SPINDLE SERVO LINE




A 1/2 CN401
CN902
CN901 NM
CN201 NM
IC203
NJM2885DL1-33
LSI - DRV - MECHA
LSI - I/F
C-a
C-b

1 2 3 4

A

C-b

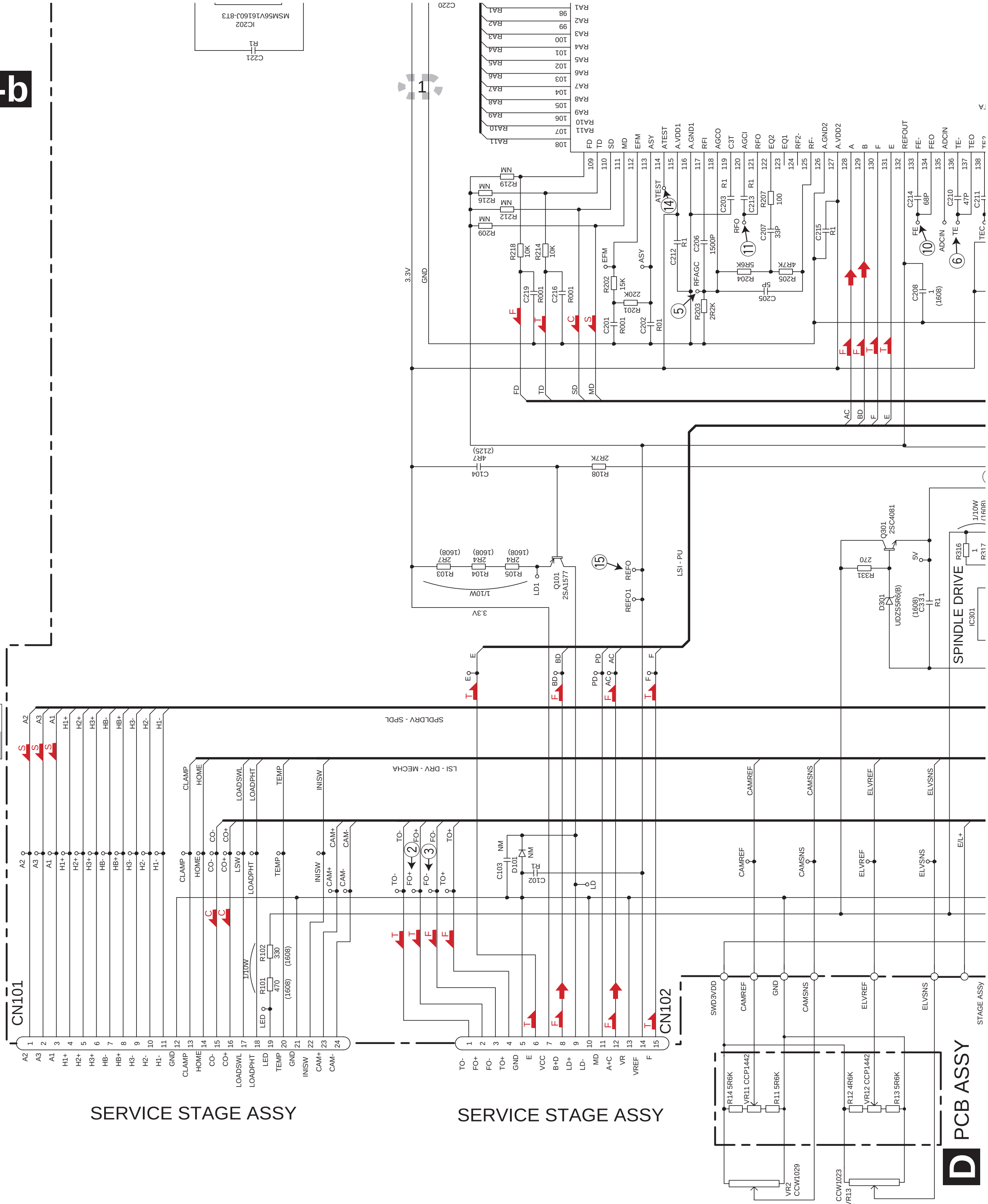
B

C

D

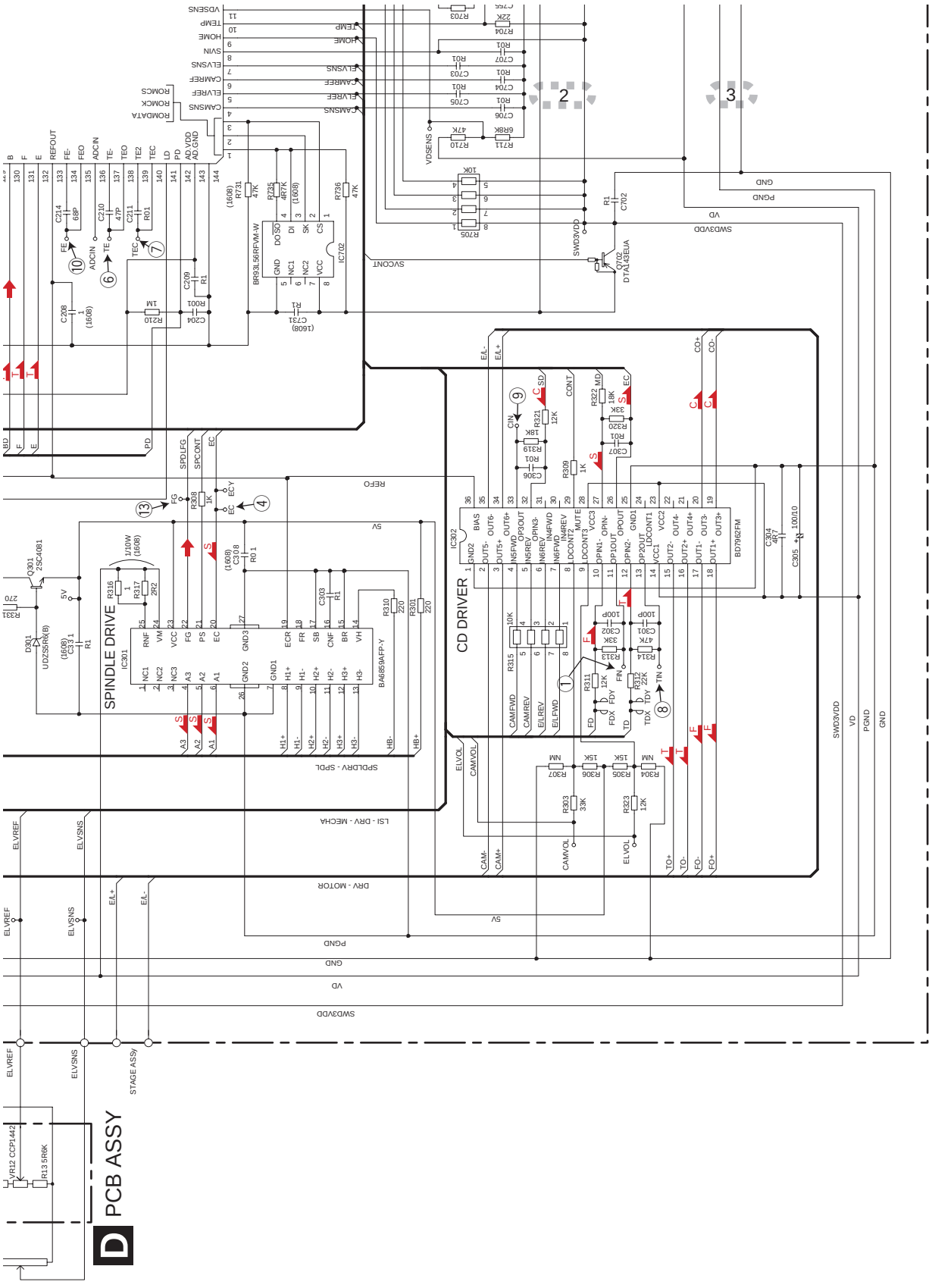
E

F

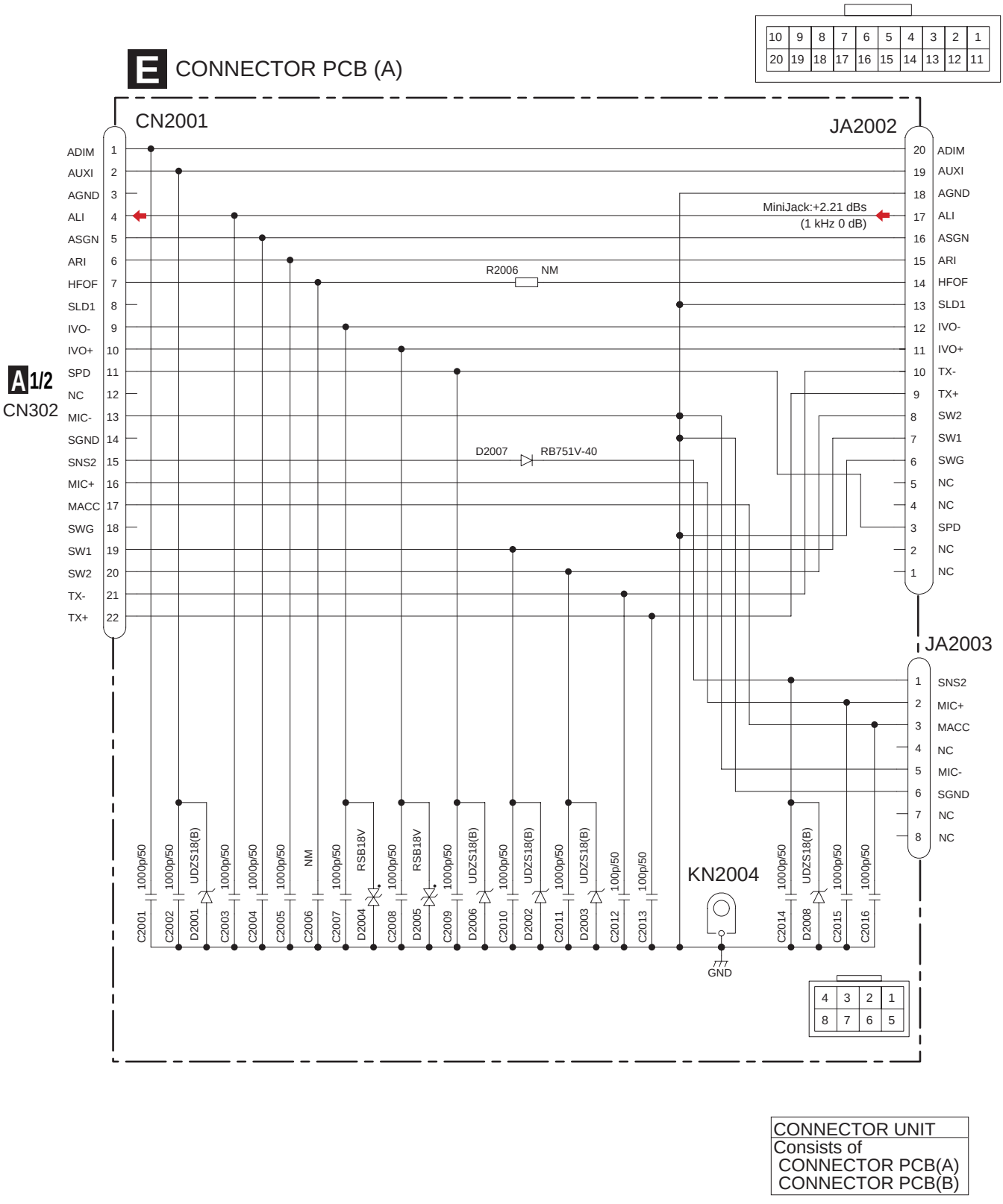


C-a **D**

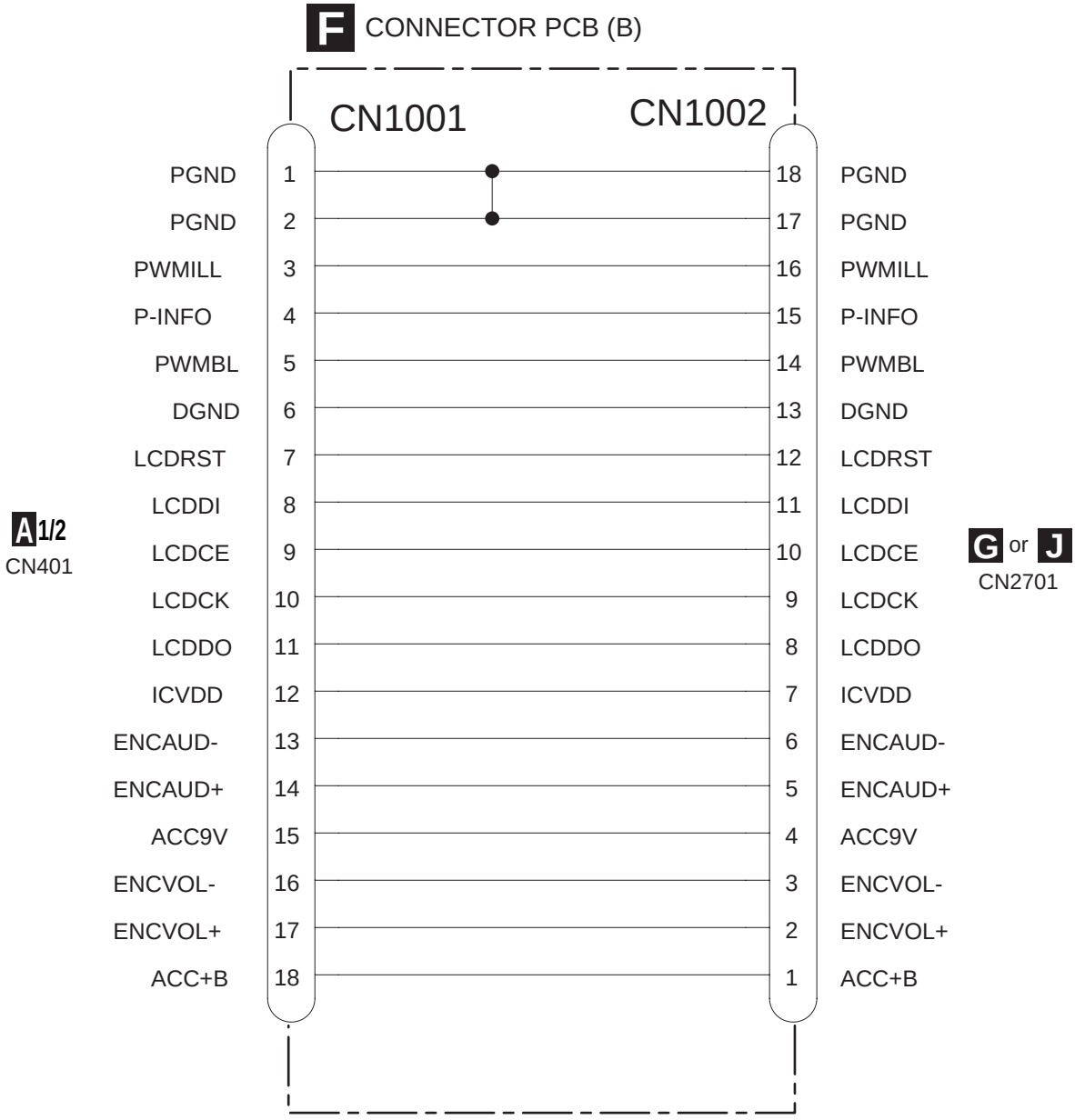
1 2 3 4


C-b
C-a C-b
D PCB ASSY
C-a D
SPINDLE DRIVE
CD DRIVER
IC301
IC302
BD7962FM
BA6859AFP-Y
BR93L56RFVM-W
SPDLDRV - SPDL
LSI - DRV - MECHA
DRV - MOTOR
SWD3VDD
VD
PGND
GND
SV
REFO
ELVREF
ELVSNS
STAGE ASSy
E/L+
E/L-
CAM+
CAM-
CAMVOL
ELVOL
TO+
TO-
FO+
FO-
SPDLFG
SPCONT
SVCONT
VDSENS
TEMP
HOME
SVIN
ELVSNS
CAMREF
ELVREF
CAMSNS
ROMDATA
ROMCK
ROMCS
AD.VDD
AD.GND
REFOUT
FE-
FEO
ADCIN
TE-
TEO
TE2
TEC
LD
PD
FG
EC
SD
CONT
CIN
FIN
TIN
FD
FDX
FDY
TD
TDX
TDY

10.5 CONNECTOR PCB (A)

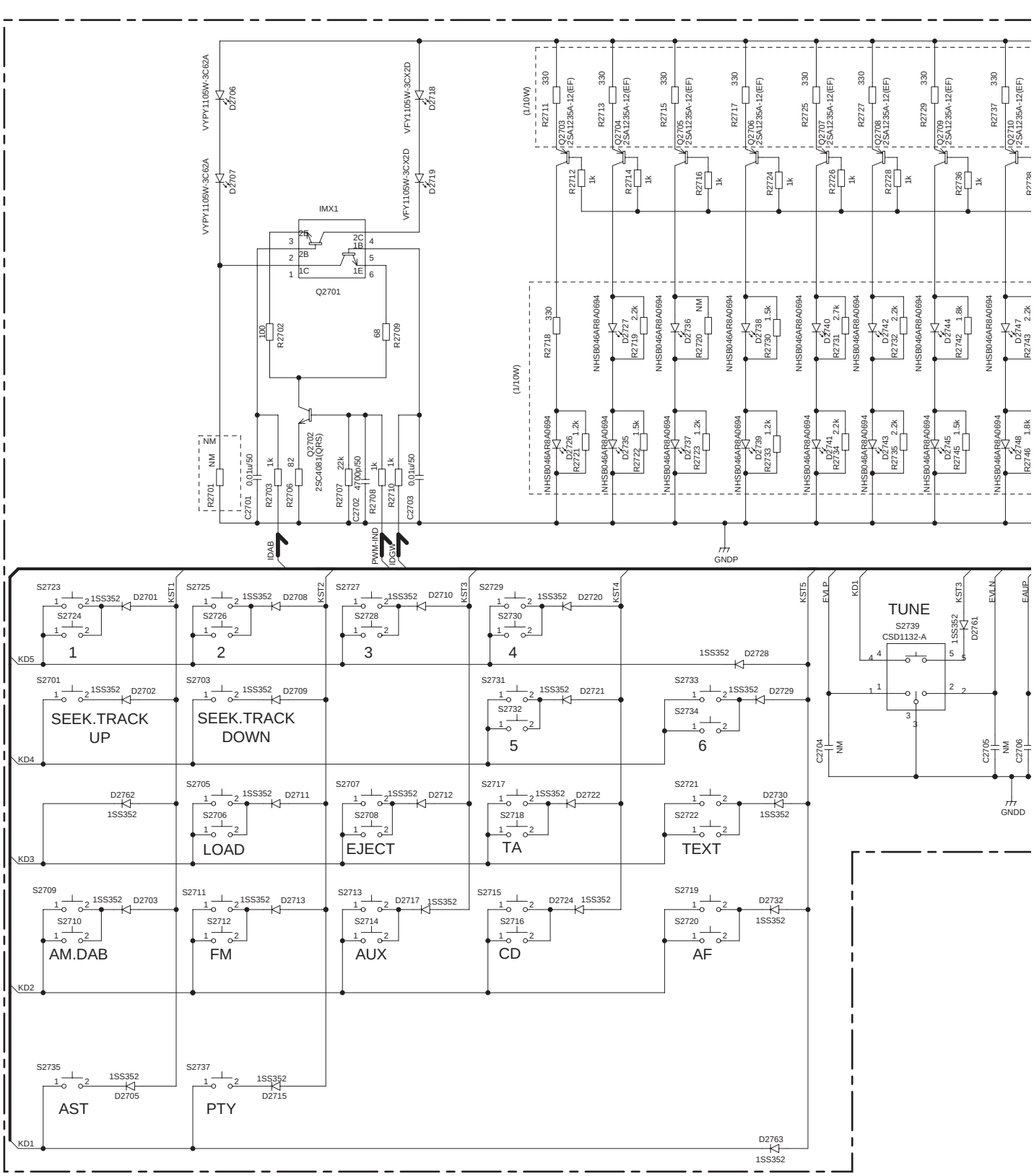


10.6 CONNECTOR PCB (B)



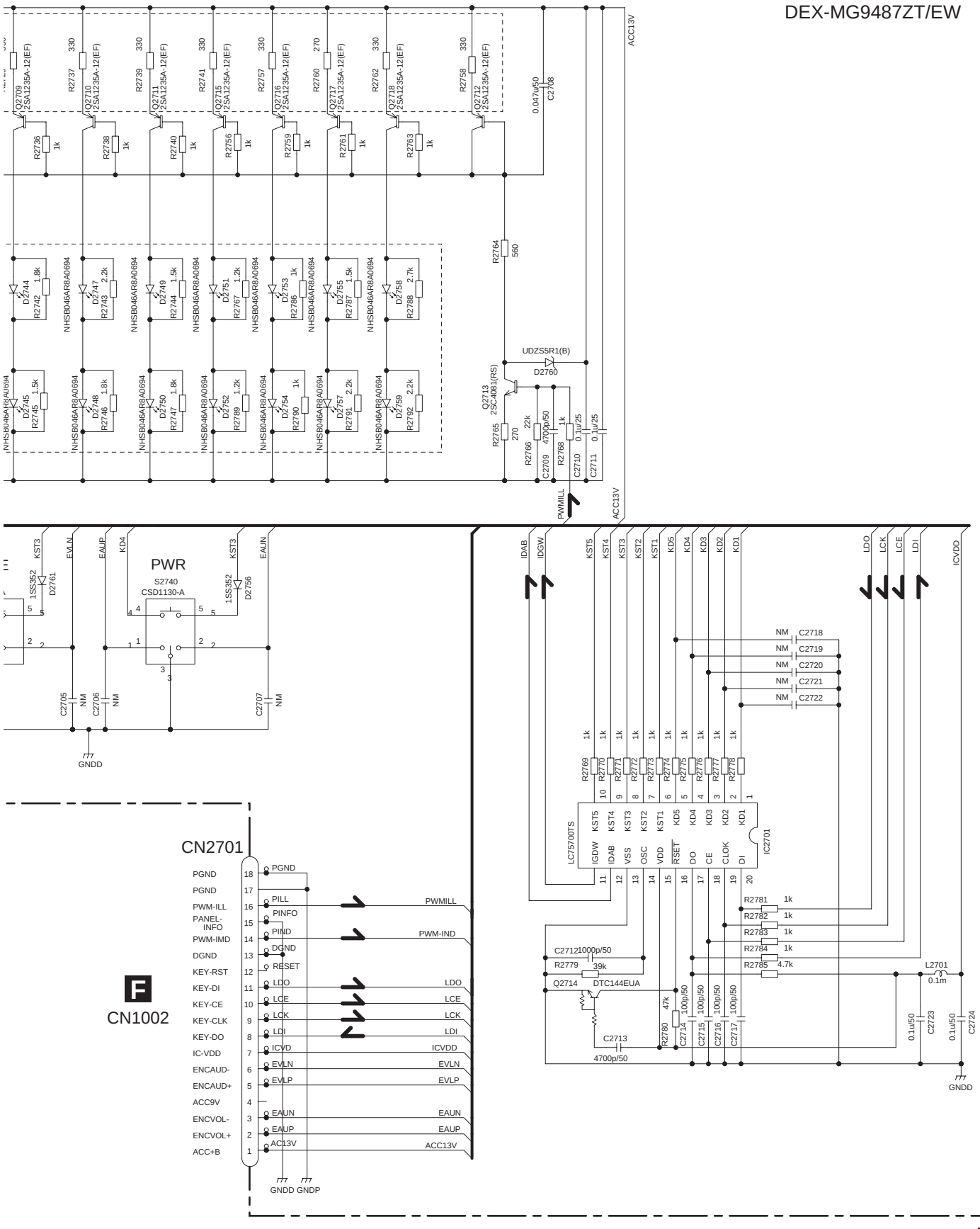
CONNECTOR UNIT
Consists of CONNECTOR PCB(A) CONNECTOR PCB(B)

10.7 KEYBOARD UNIT (AUDIO PANEL PCB(R))

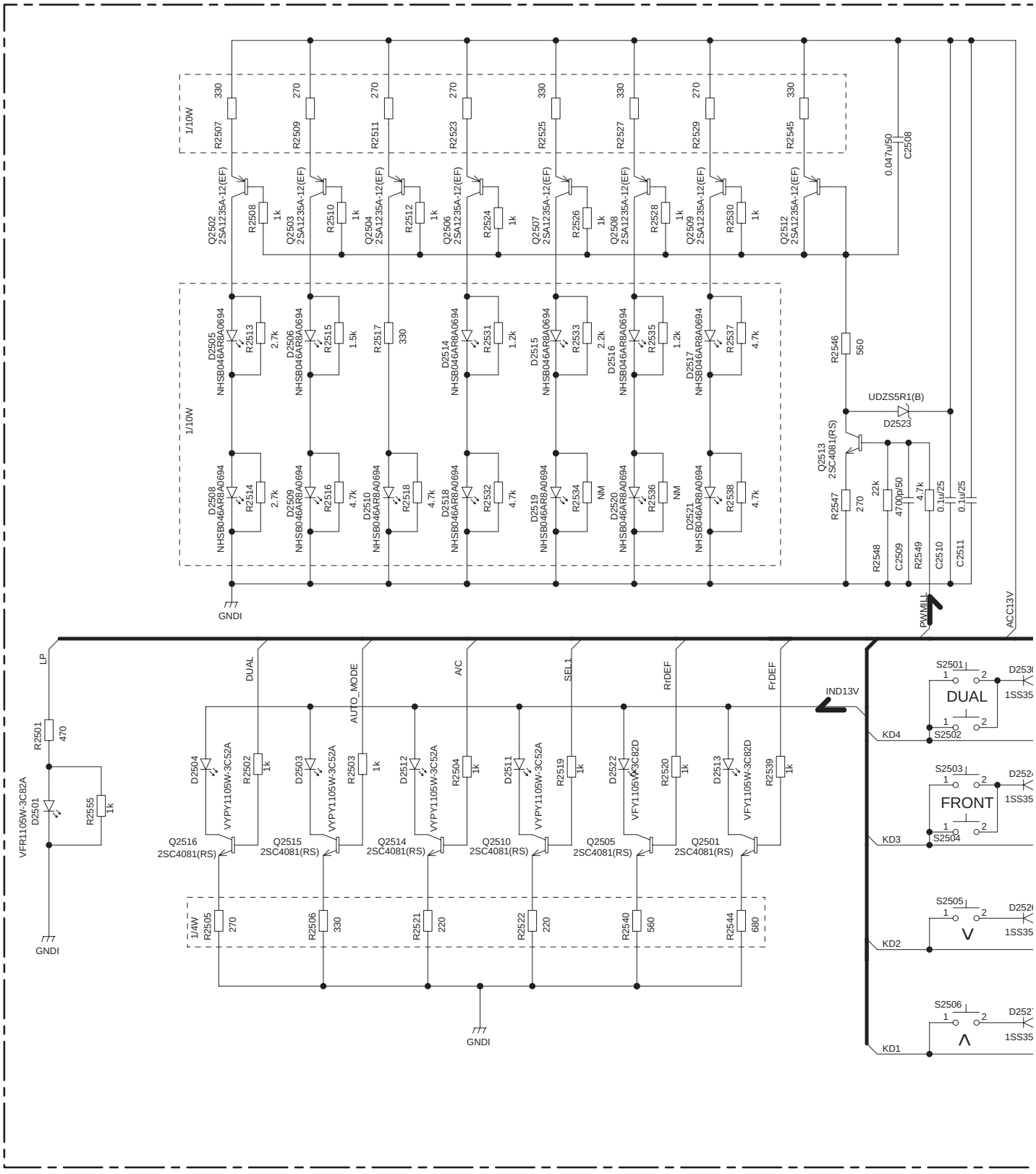


G KEYBOARD UNIT (AUDIO PANEL PCB(R))

DEX-MG9487ZT/EW

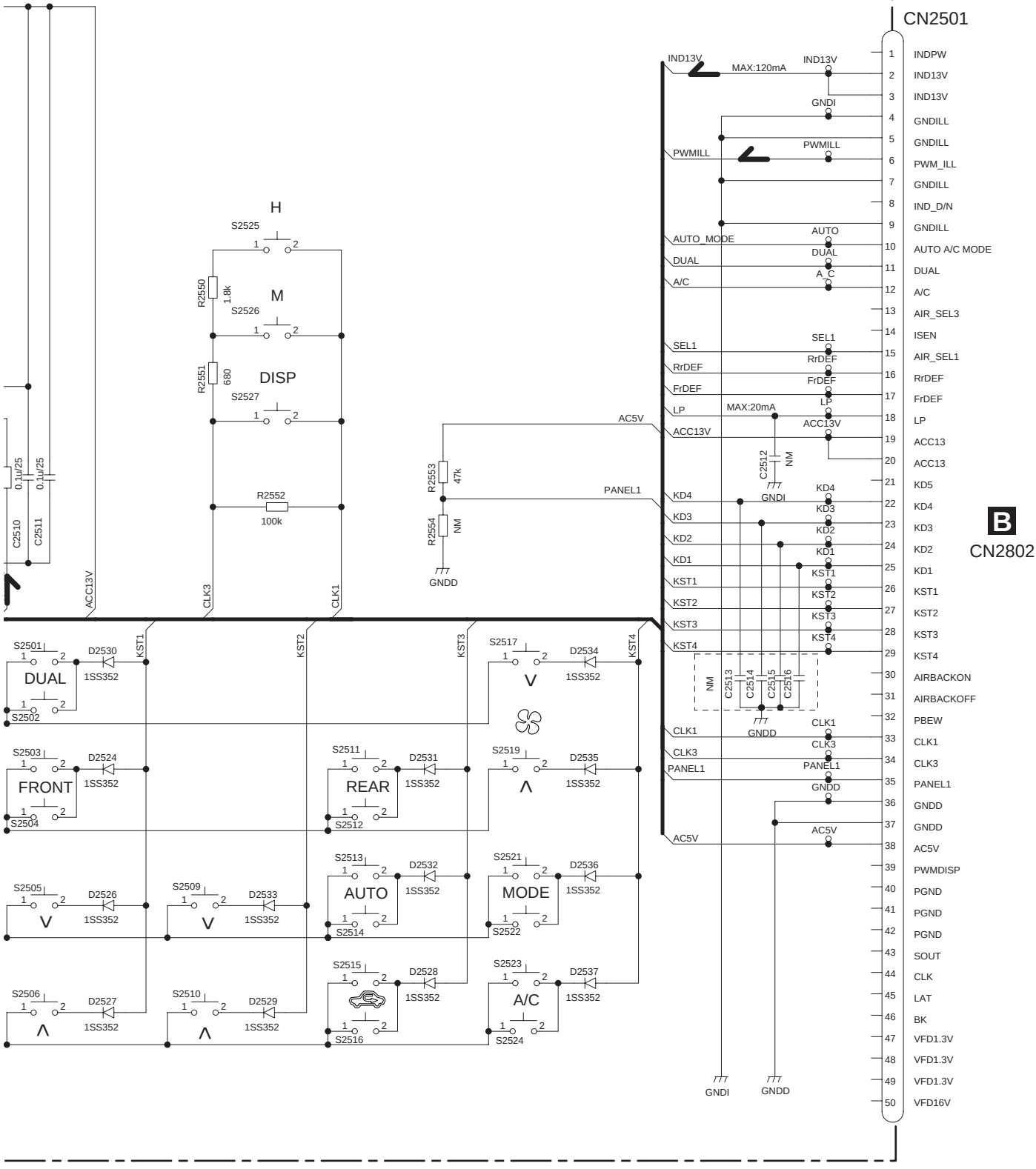


10.8 KEYBOARD UNIT (A/C PANEL PCB(R))

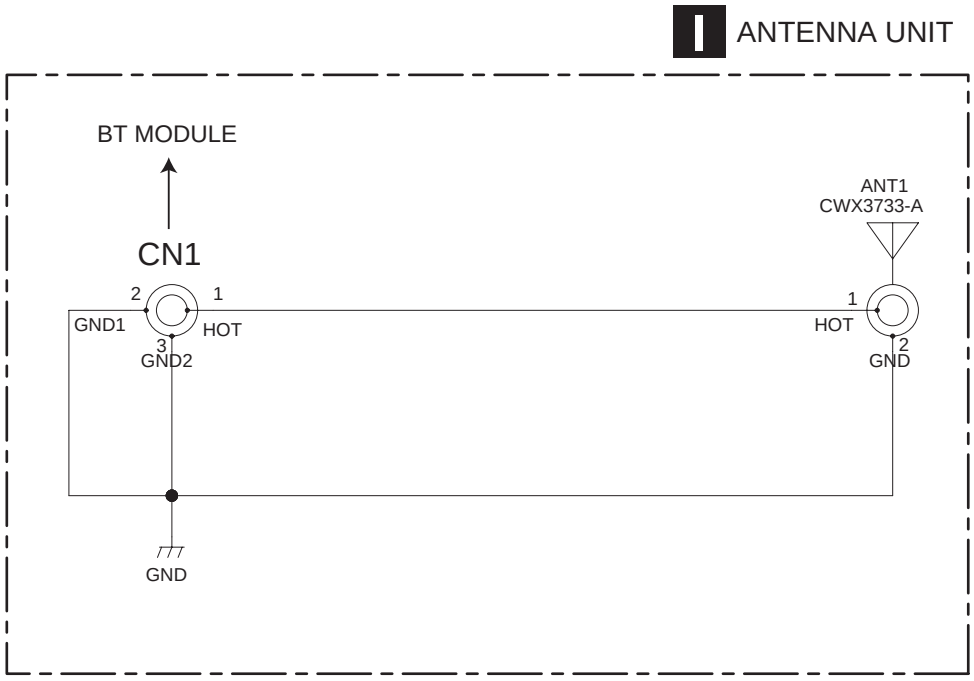


H KEYBOARD UNIT (A/C PANEL PCB(R))

DEX-MG9487ZT/EW



10.9 ANTENNA UNIT



A

B

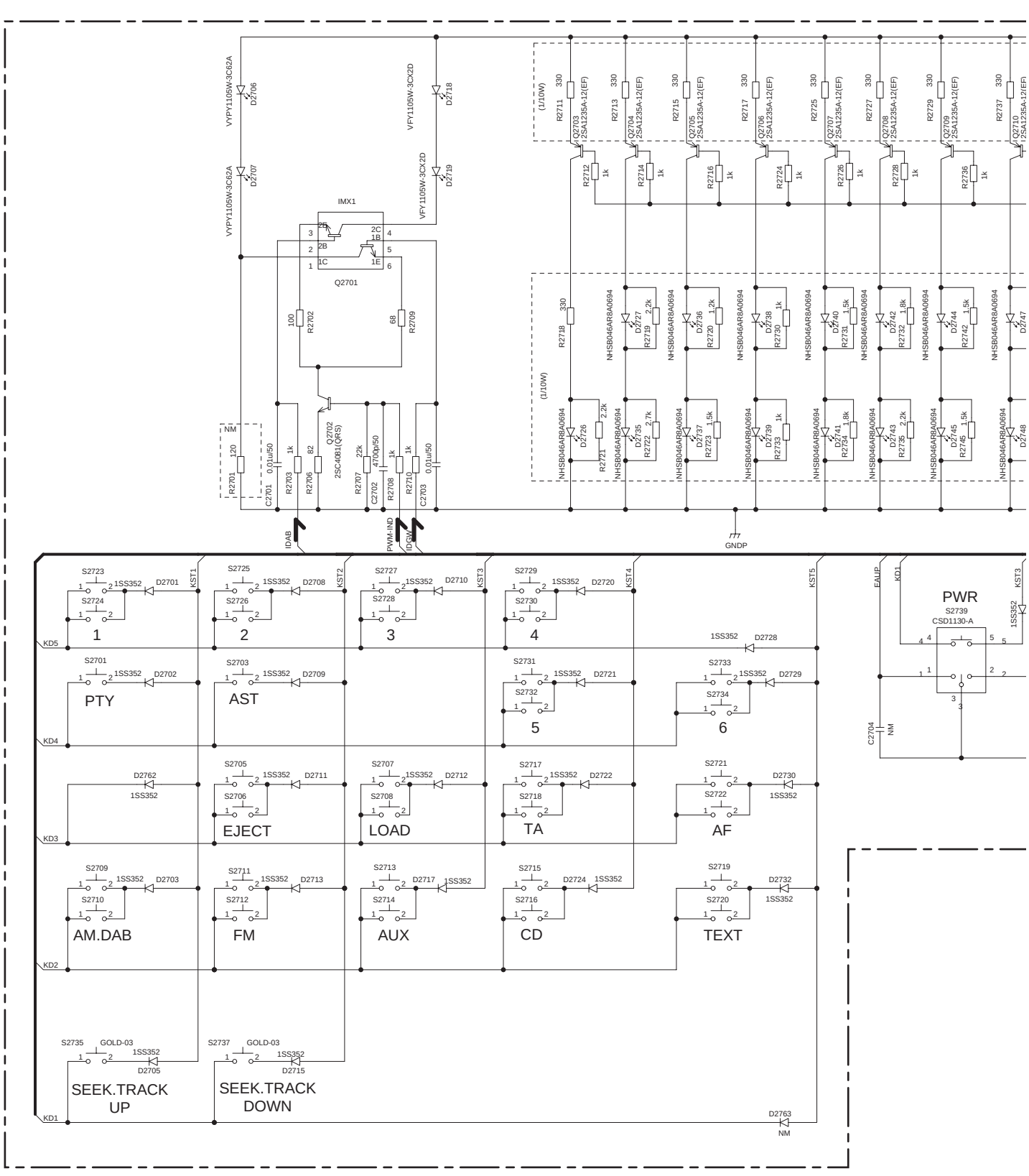
C

D

E

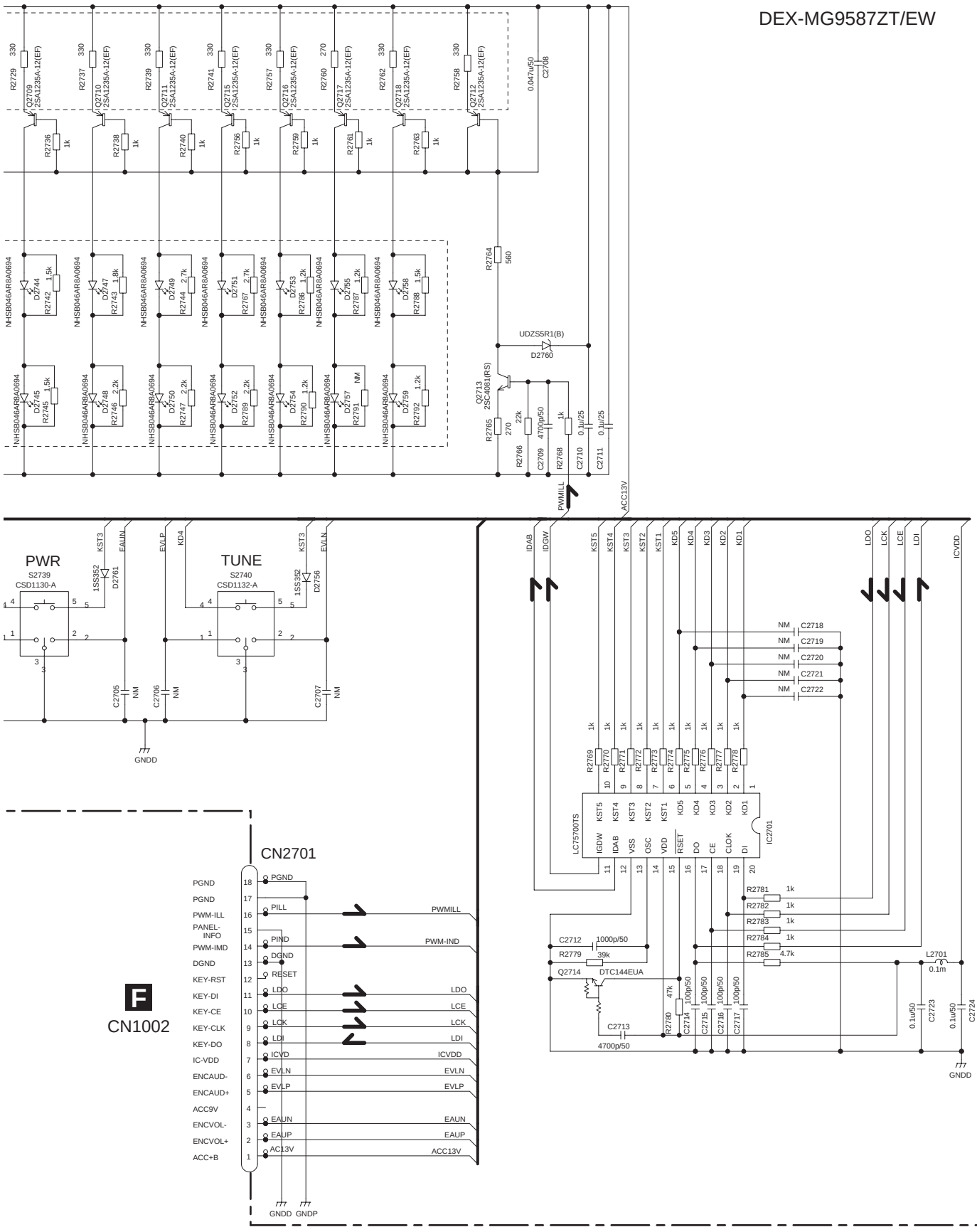
F

10.10 KEYBOARD UNIT (AUDIO PANEL PCB(L))

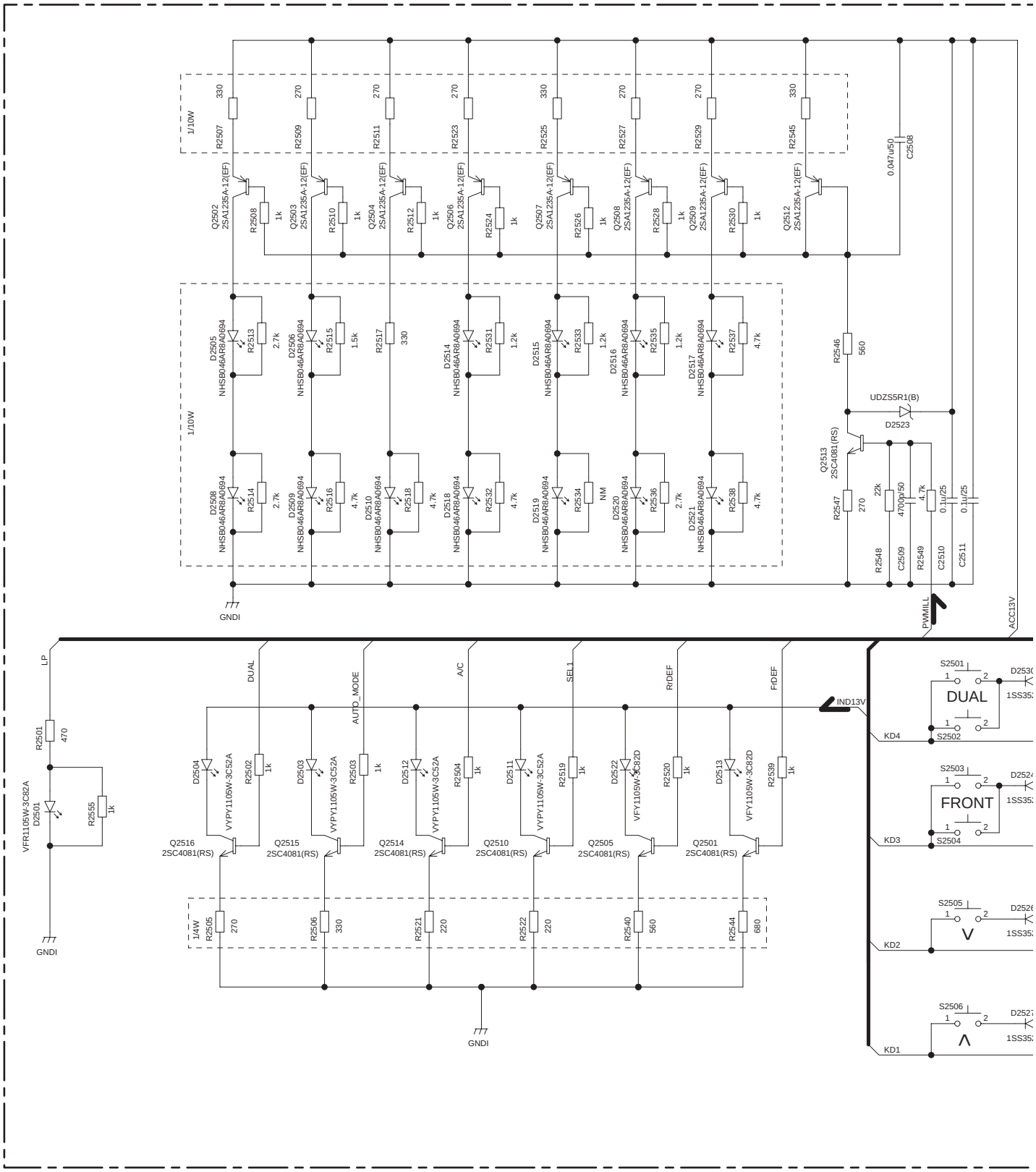


J KEYBOARD UNIT (AUDIO PANEL PCB(L))

DEX-MG9587ZT/EW

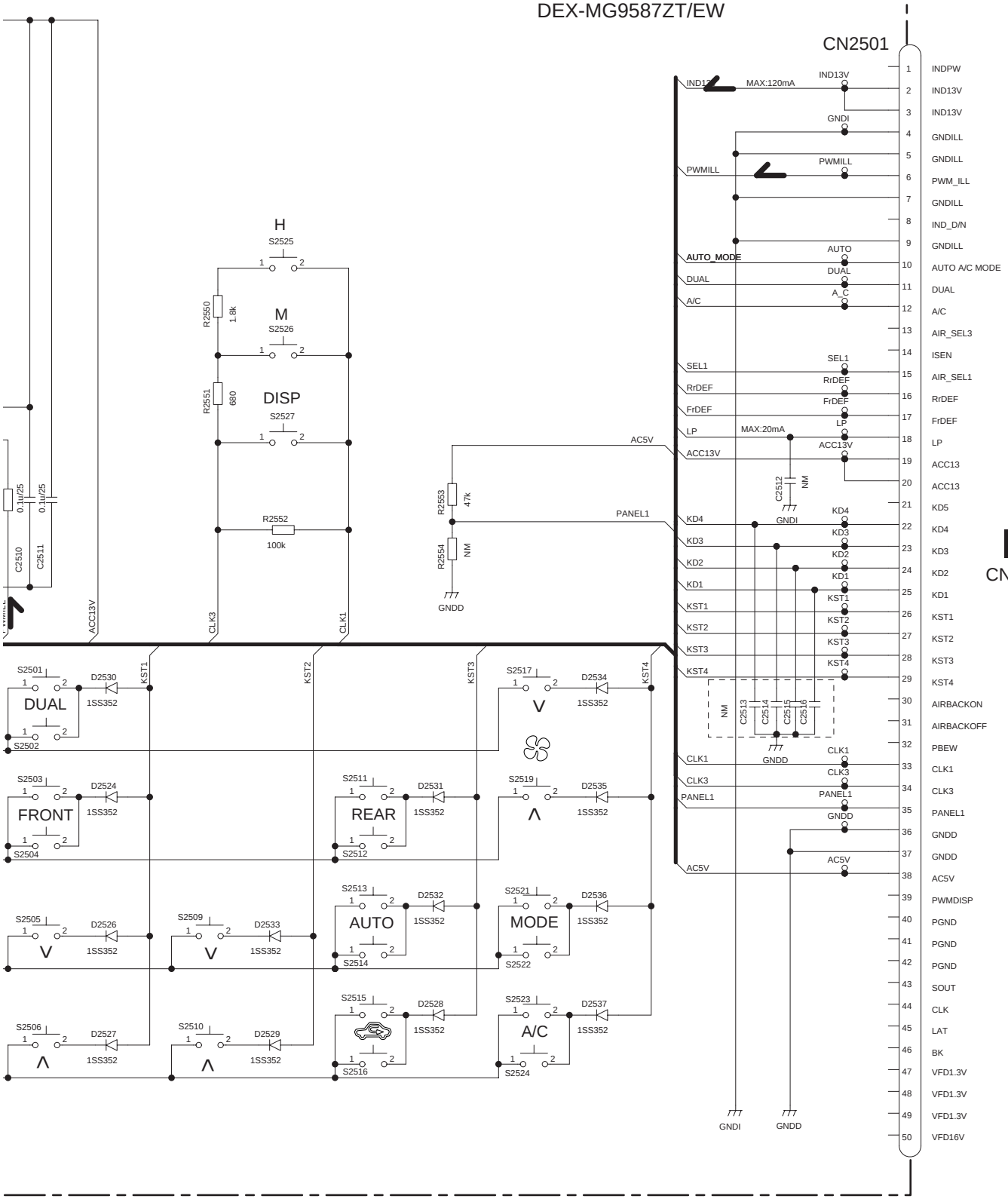


10.11 KEYBOARD UNIT (A/C PANEL PCB(L))



K KEYBOARD UNIT (A/C PANEL PCB(L))

DEX-MG9587ZT/EW

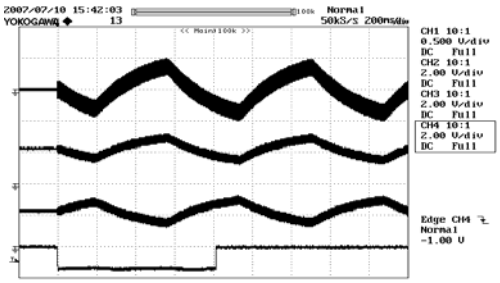


10.12 WAVEFORMS

CONTROL UNIT

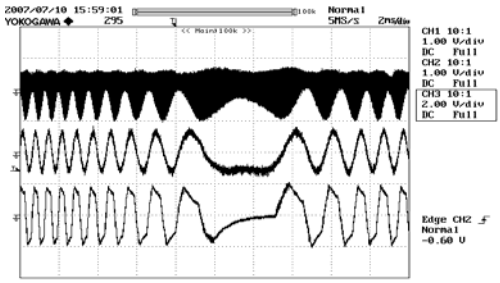
CH1 : ① FIN
CH2 : ② FO+
CH3 : ③ FO-
CH4 : ④ EC
Standerd : ⑮ REFO
Mode : Test

Focus search mode



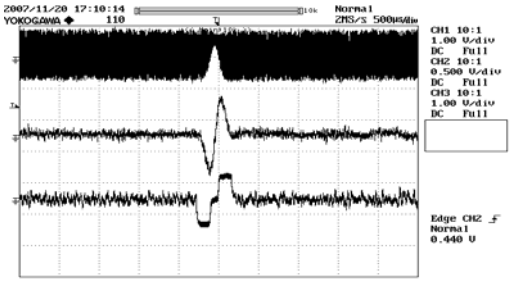
CH1 : ⑤ RFAGC
CH2 : ⑥ TE
CH3 : ⑦ TEC
Standerd : ⑮ REFO
Mode : Test

Tracking open



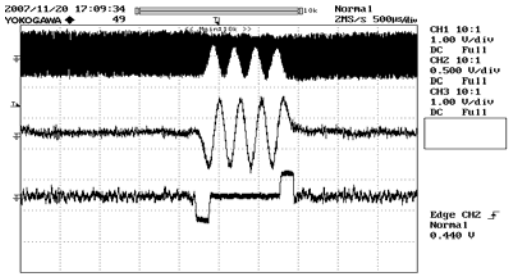
CH1 : ⑤ RFAGC
CH2 : ⑥ TE
CH3 : ⑧ TIN
Standerd : ⑮ REFO
Mode : Test

1 Track Jump



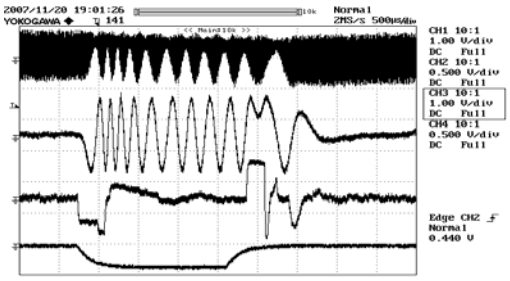
CH1 : ⑤ RFAGC
CH2 : ⑥ TE
CH3 : ⑧ TIN
Standerd : ⑮ REFO
Mode : Test

4 Track Jump



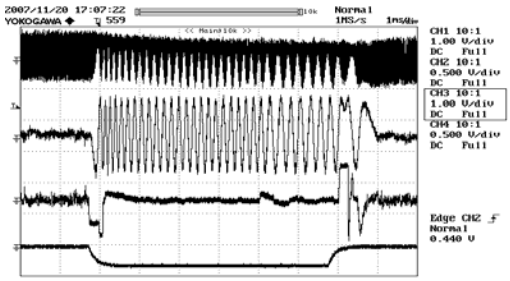
CH1 : ⑤ RFAGC
CH2 : ⑥ TE
CH3 : ⑧ TIN
CH4 : ⑨ CIN
Standerd : ⑮ REFO
Mode : Test

10 Track Jump



CH1 : ⑤ RFAGC
CH2 : ⑥ TE
CH3 : ⑧ TIN
CH4 : ⑨ CIN
Standerd : ⑮ REFO
Mode : Test

32 Track Jump



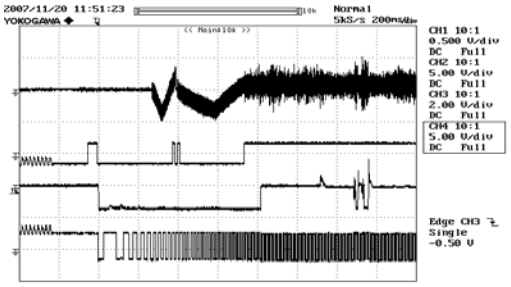
CH1 : ⑥ TE Mode : Normal
CH2 : ⑩ FE
CH3 : ⑪ RFO

Standerd : ⑮ REFO

Focus close

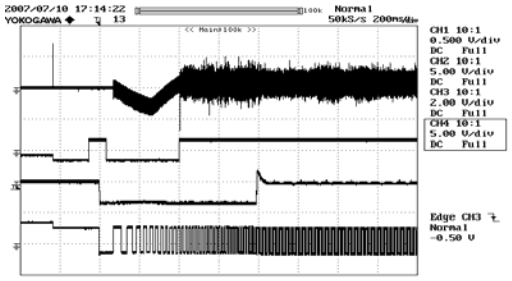
CH1 : ① FIN Mode : Normal
CH2 : ⑫ RFOK
CH3 : ④ EC
CH4 : ⑬ FG
Standerd : ⑮ REFO

Setup (No memory capacity during PLAY)



CH1 : ① FIN Mode : Normal
CH2 : ⑫ RFOK
CH3 : ④ EC
CH4 : ⑬ FG
Standerd : ⑮ REFO

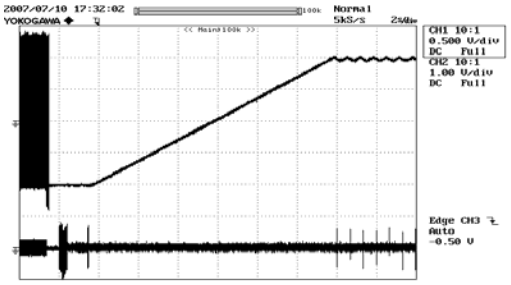
Setup (Memory capacity during PLAY)



CH1 : ⑭ ATEST Mode : Normal
CH2 : ⑥ TE

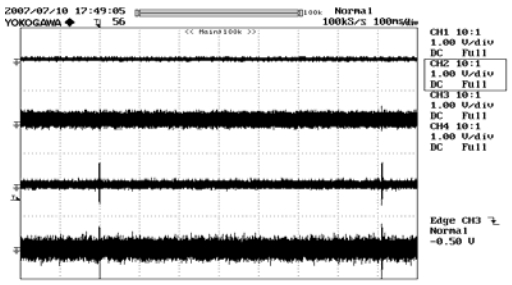
Standerd : ⑮ REFO

Memory capacity (remainig) PLAY start



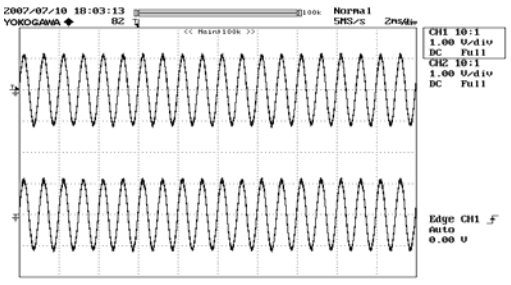
CH1 : ⑩ FE Mode : Normal
CH2 : ① FIN
CH3 : ⑥ TE
CH4 : ⑧ TIN
Standerd : ⑮ REFO

During “Play”



CH1 : ⑯ LOUT Mode : Normal
CH2 : ⑰ ROUT

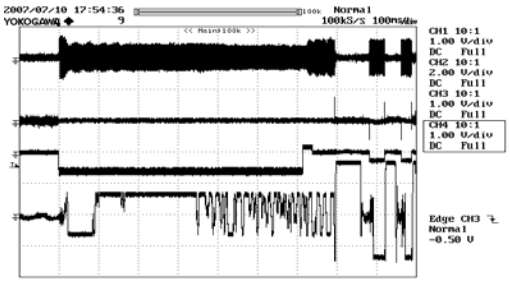
Standerd : ⑱ AGND
Audio output (1 kHz, 0 dB)



CH1 : ⑥ TE
CH2 : ⑧ TIN
CH3 : ⑨ CIN
CH4 : ④ EC
Standerd : ⑮ REFO

Mode : Normal

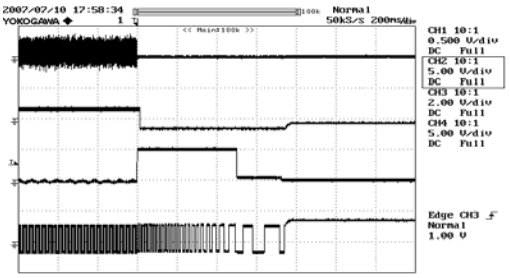
During inside / outside search



CH1 : ① FIN
CH2 : ⑫ RFOK
CH3 : ④ EC
CH4 : ⑬ FG
Standerd : ⑮ REFO

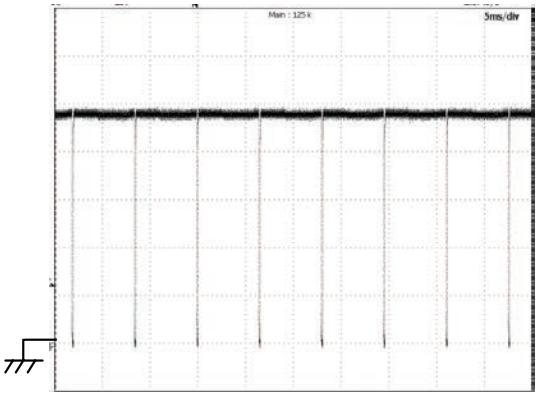
Mode : Normal

DISC stop

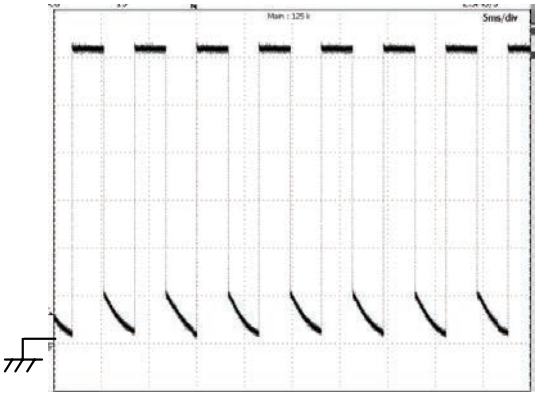


PANEL CONTROL UNIT

⑤PWM_ILL 1 V/div. 5 ms/div.



⑥IND+B 2 V/div. 5 ms/div.

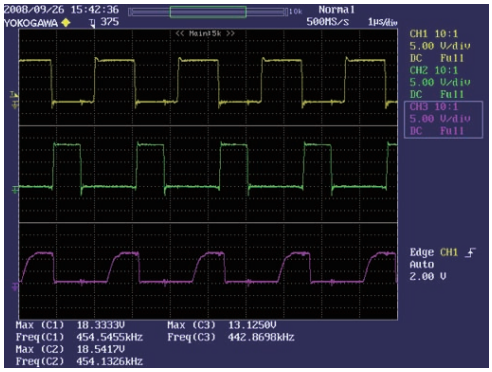


MAIN UNIT

DD converter

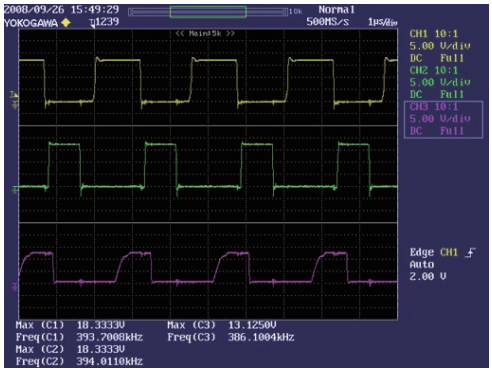
AM mode (CH1) play

①OUTH1
②OUTH2
③OUT3



AM mode (CH3) play

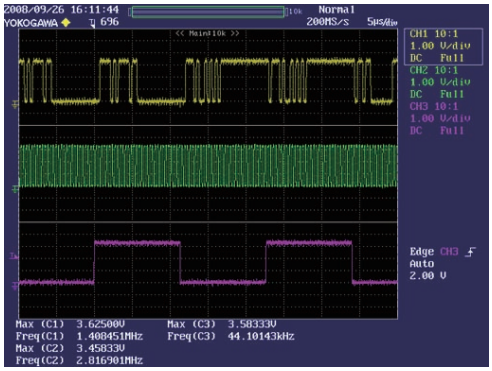
①OUTH1
②OUTH2
③OUT3



CD

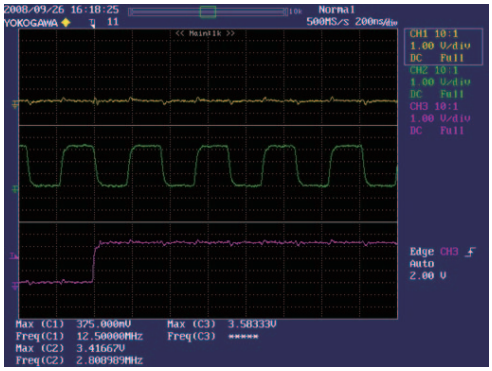
CD mode play 5 us/div

④CD_DATA
⑤CD_BCLK
⑥CD_LRCK



CD mode play 200 ns/div

④CD_DATA
⑤CD_BCLK
⑥CD_LRCK

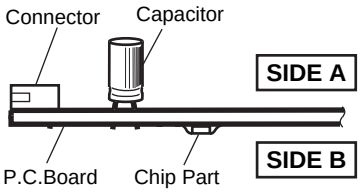


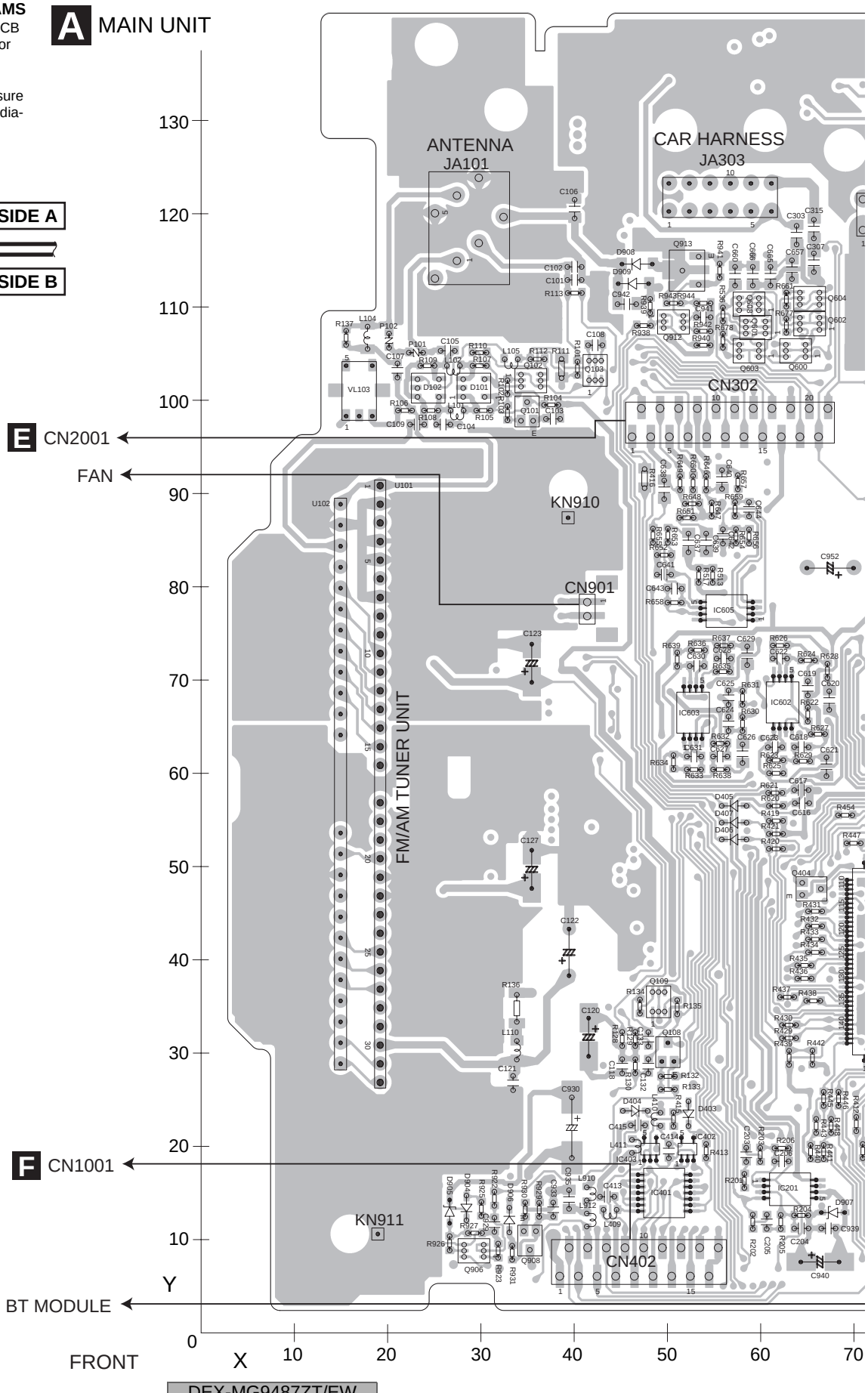
11. PCB CONNECTION DIAGRAM

11.1 MAIN UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams





SIDE A

A

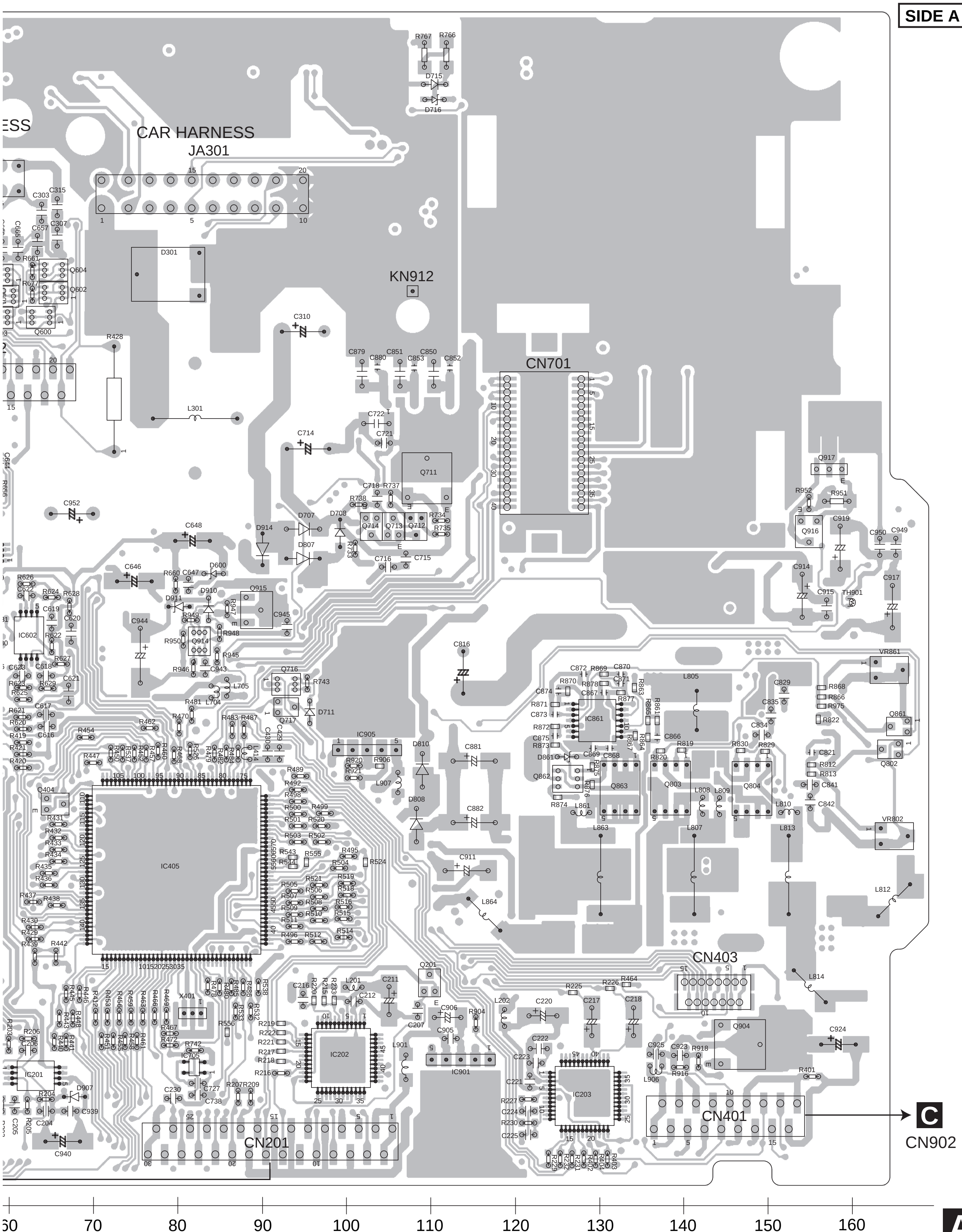
B

C

D

E

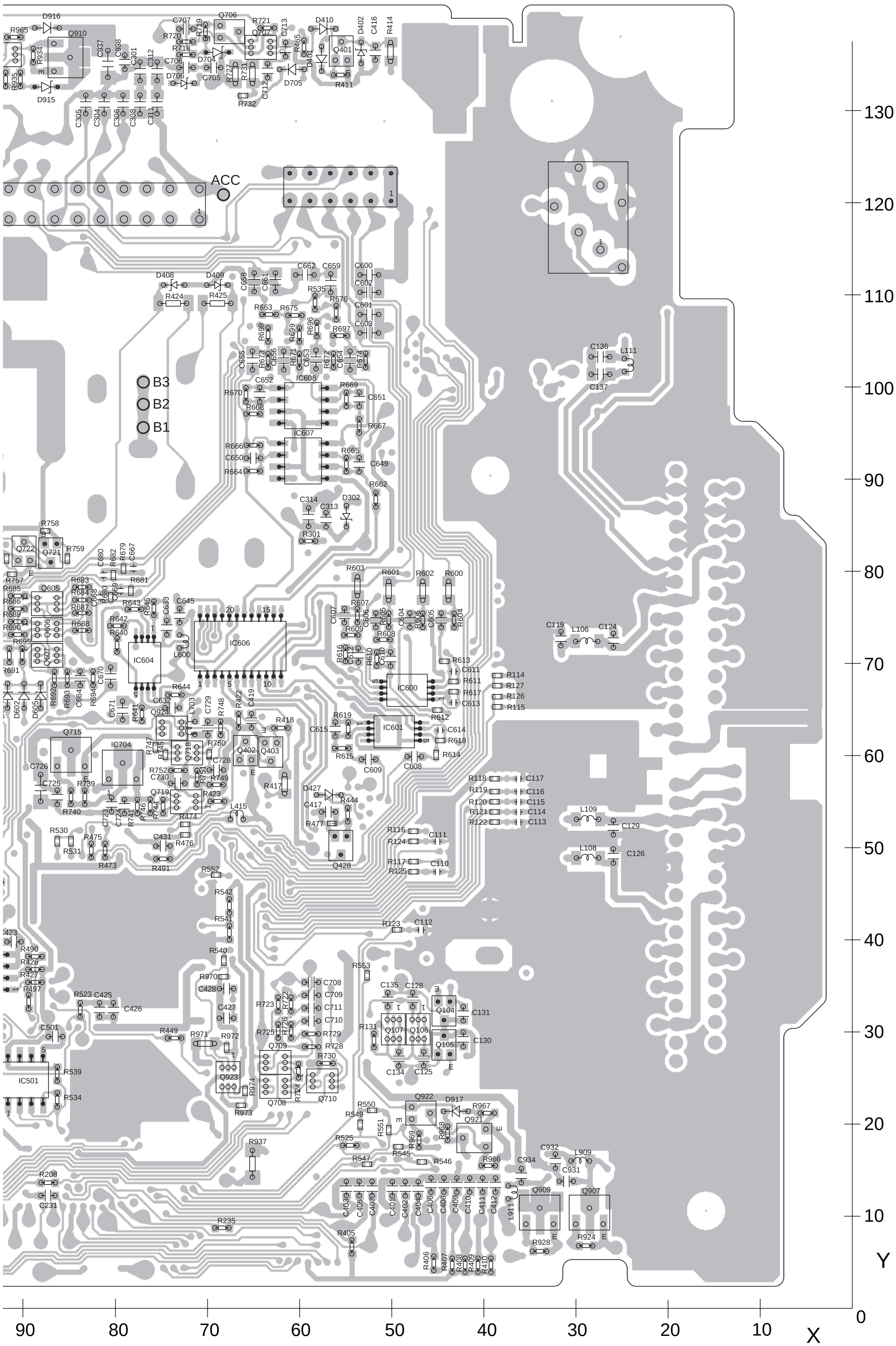
F



A

A MAIN UNIT

⚠ P301(B,104,122) Fuse 8 A CEK1263
⚠ P801(B,134,66) Fuse 5 A CEK1261

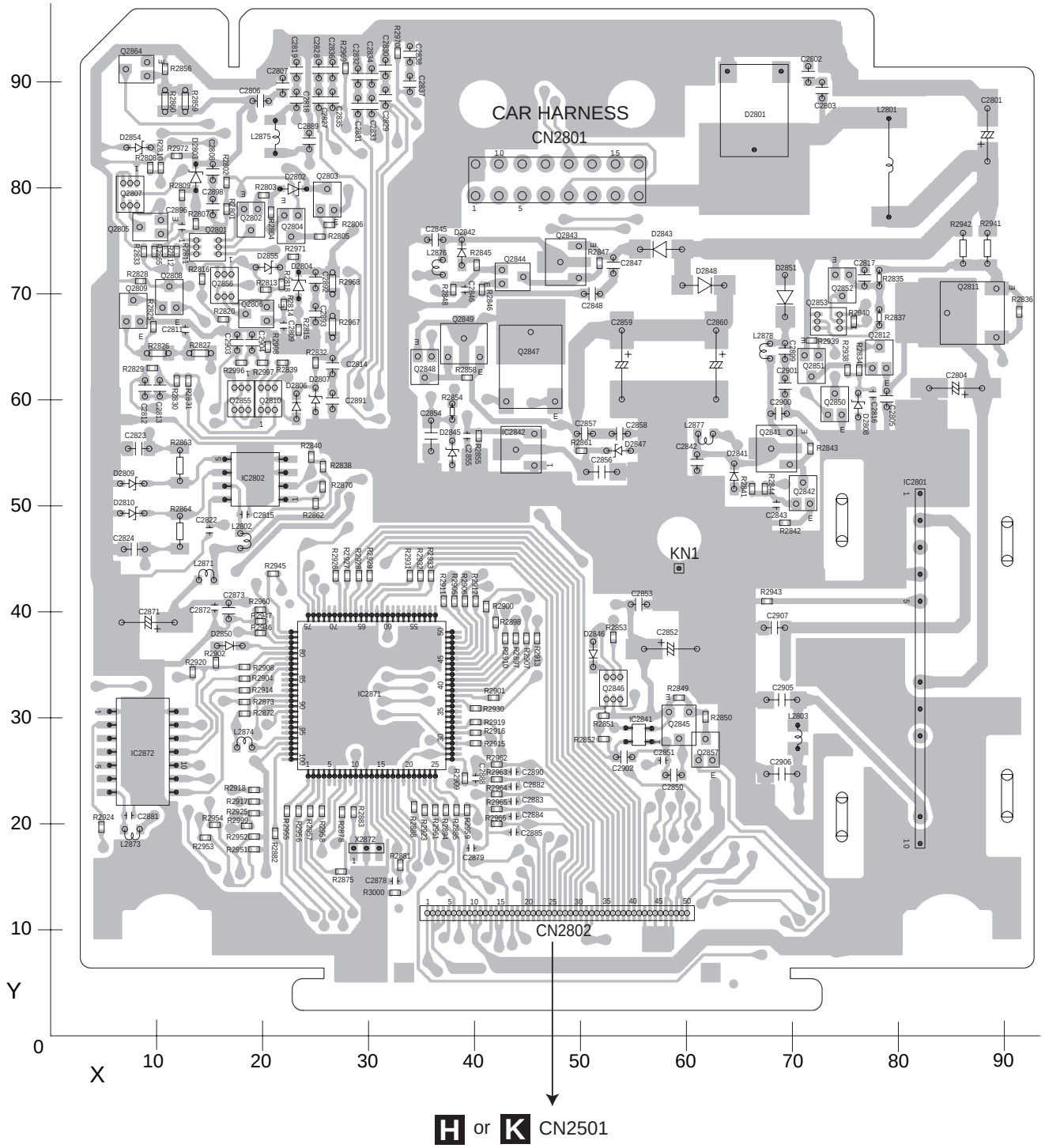

SIDE B
ACC
B3
B2
B1
IC606
IC604
IC607
IC608
IC600
IC601
IC704
IC501
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130

A

11.2 PANEL CONTROL UNIT

B PANEL CONTROL UNIT

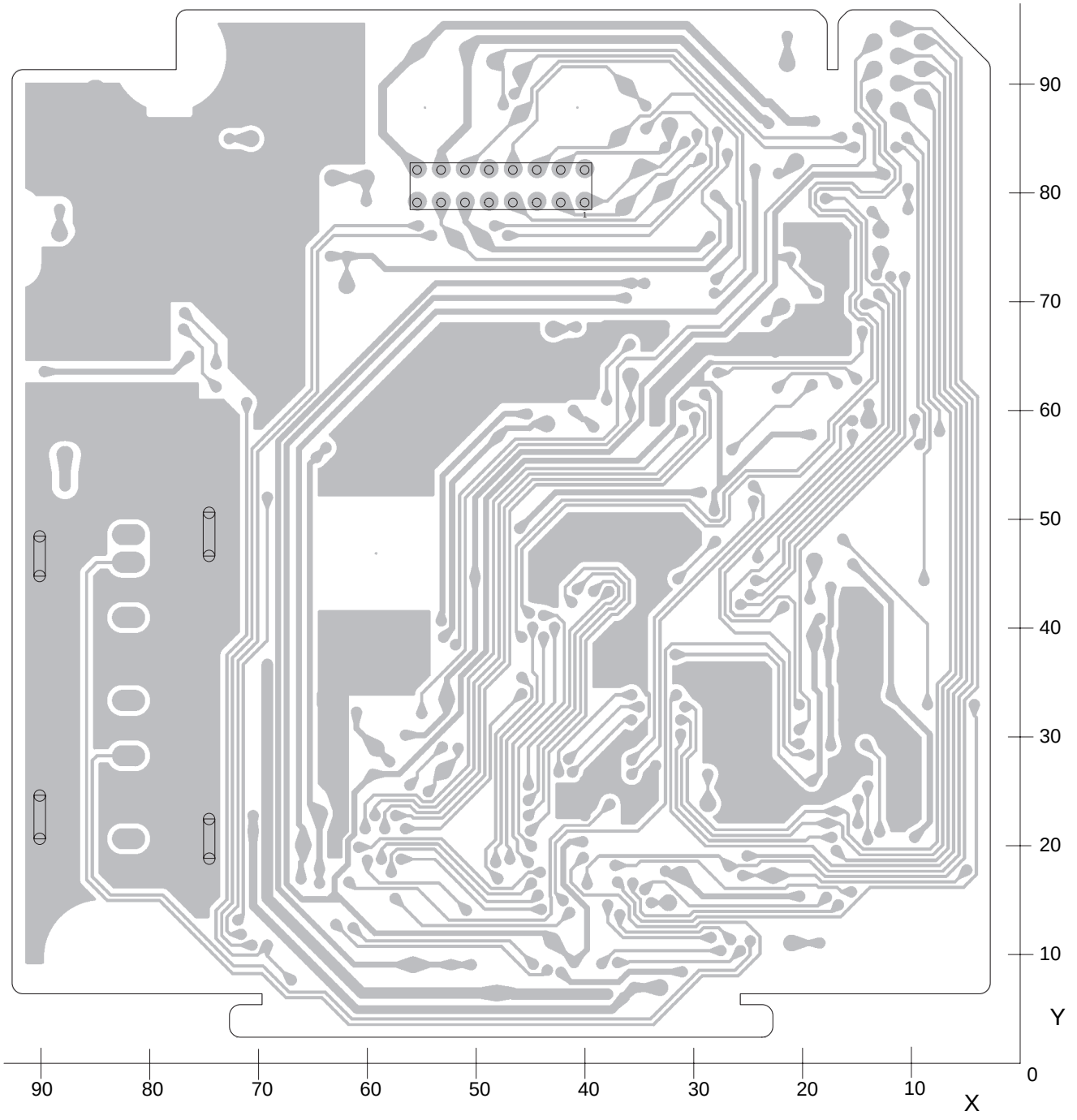
SIDE A



B

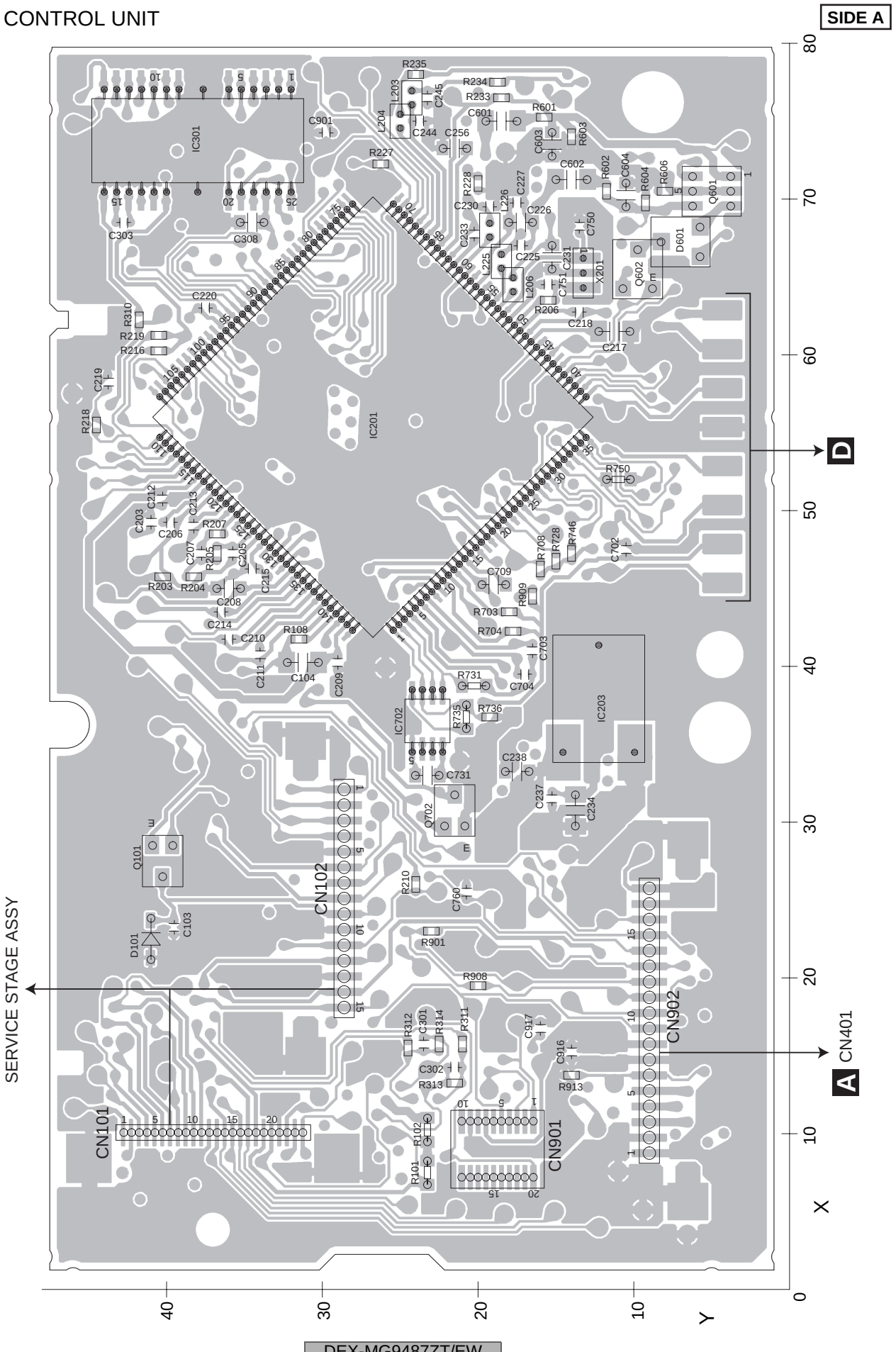
B PANEL CONTROL UNIT

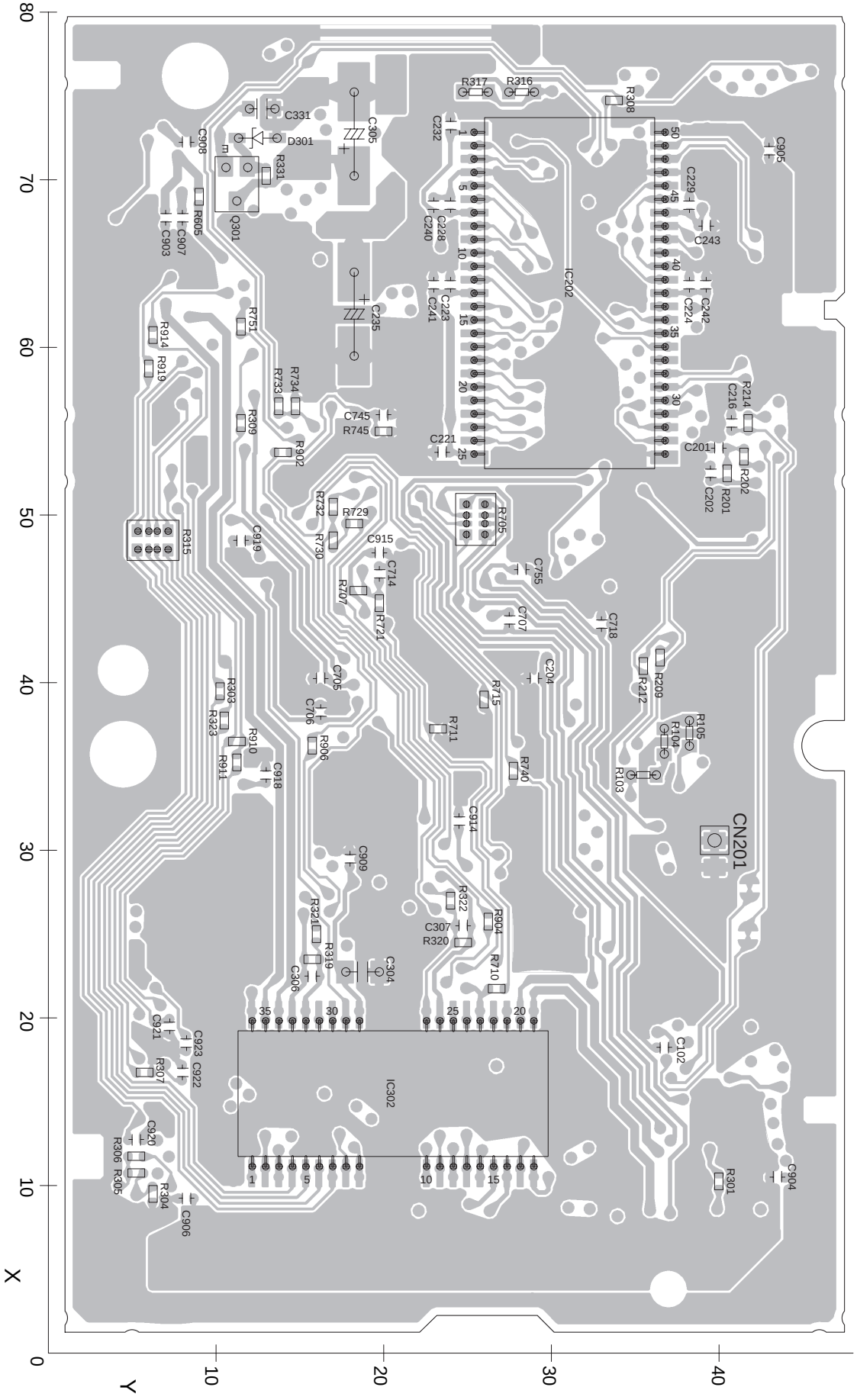
SIDE B



11.3 CONTROL UNIT

C CONTROL UNIT

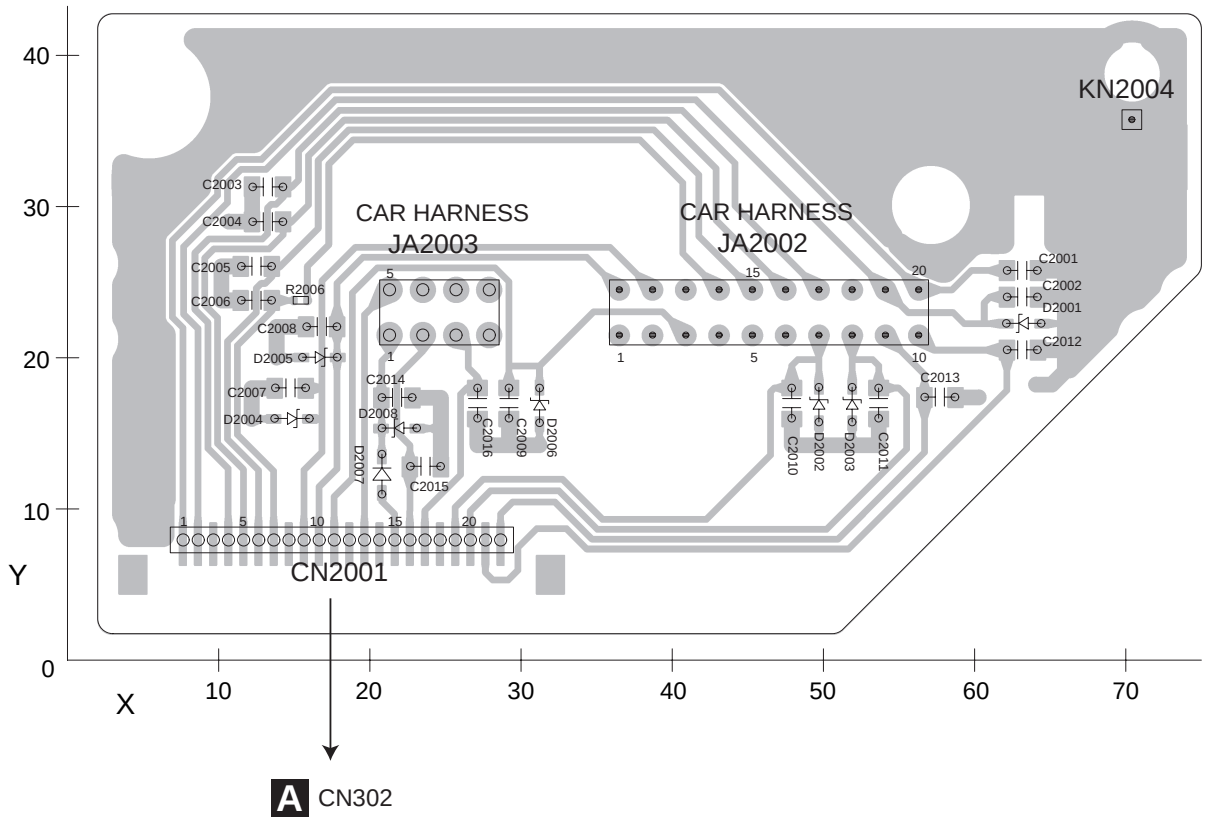



IC202
IC302
CN201
C331
D301
C305
R331
Q301
C908
C903
C907
R605
C235
R751
R914
R919
R734
R733
R309
R902
C745
R745
R729
R732
R730
C919
R315
C915
C714
R707
R721
C705
C706
R906
R303
R323
R910
R911
C918
C909
R321
R319
C306
C304
C307
R320
R322
R904
R710
C921
C923
C922
R307
C920
R306
R305
R304
C906
C755
C707
C718
C204
R715
R711
R740
C914
R209
R212
R105
R104
R103
C102
R301
C904
C905
R308
R317
R316
C232
C229
C228
C240
C243
C223
C241
C242
C224
C221
R214
C216
C201
R202
R201
C202
R705

11.4 CONNECTOR PCB (A)

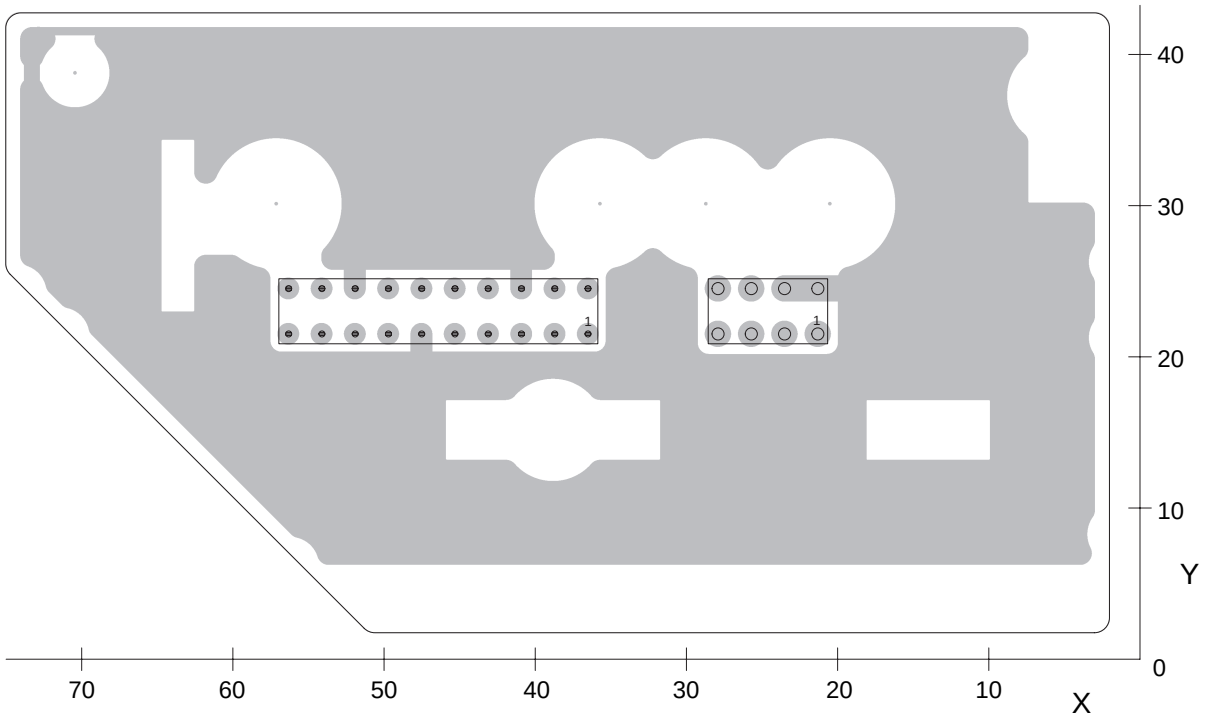
E CONNECTOR PCB (A)

SIDE A



E CONNECTOR PCB (A)

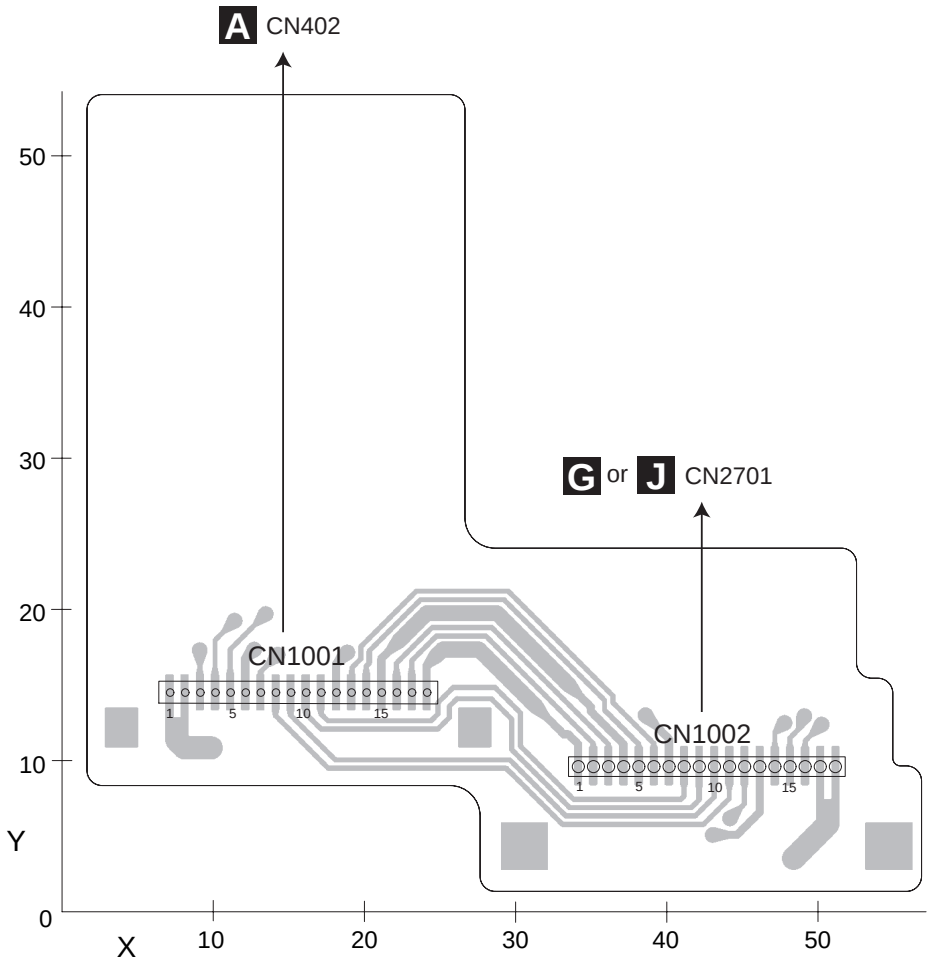
SIDE B



11.5 CONNECTOR PCB (B)

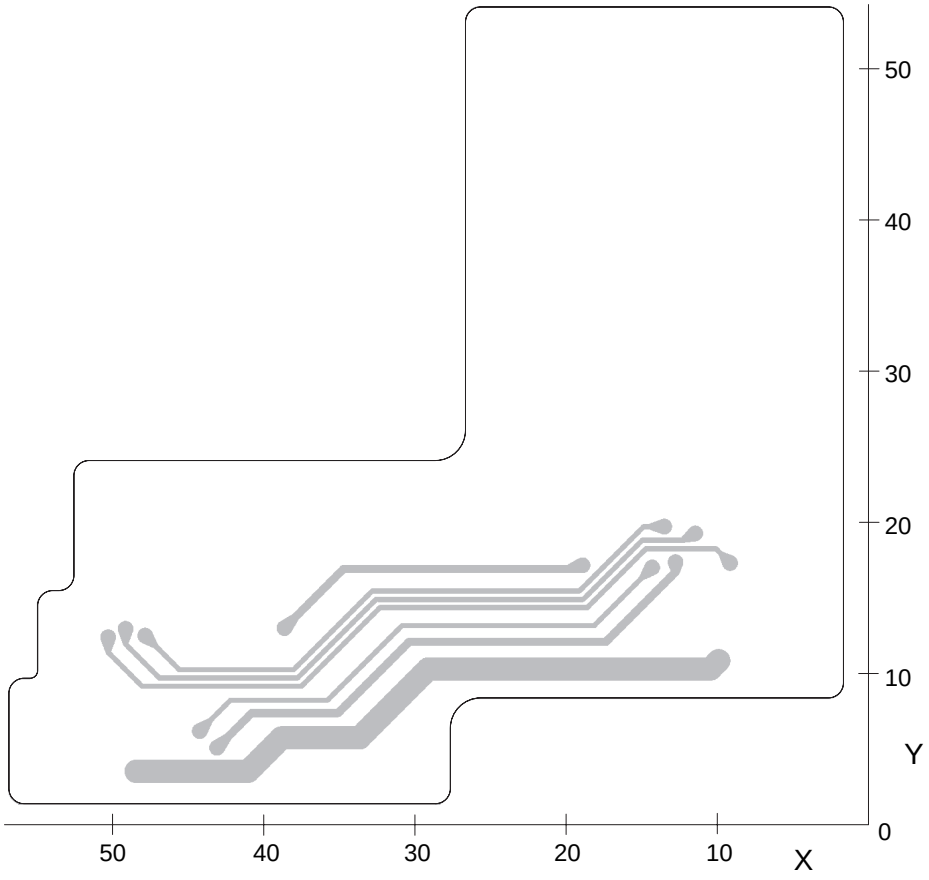
F CONNECTOR PCB (B)

SIDE A



F CONNECTOR PCB (B)

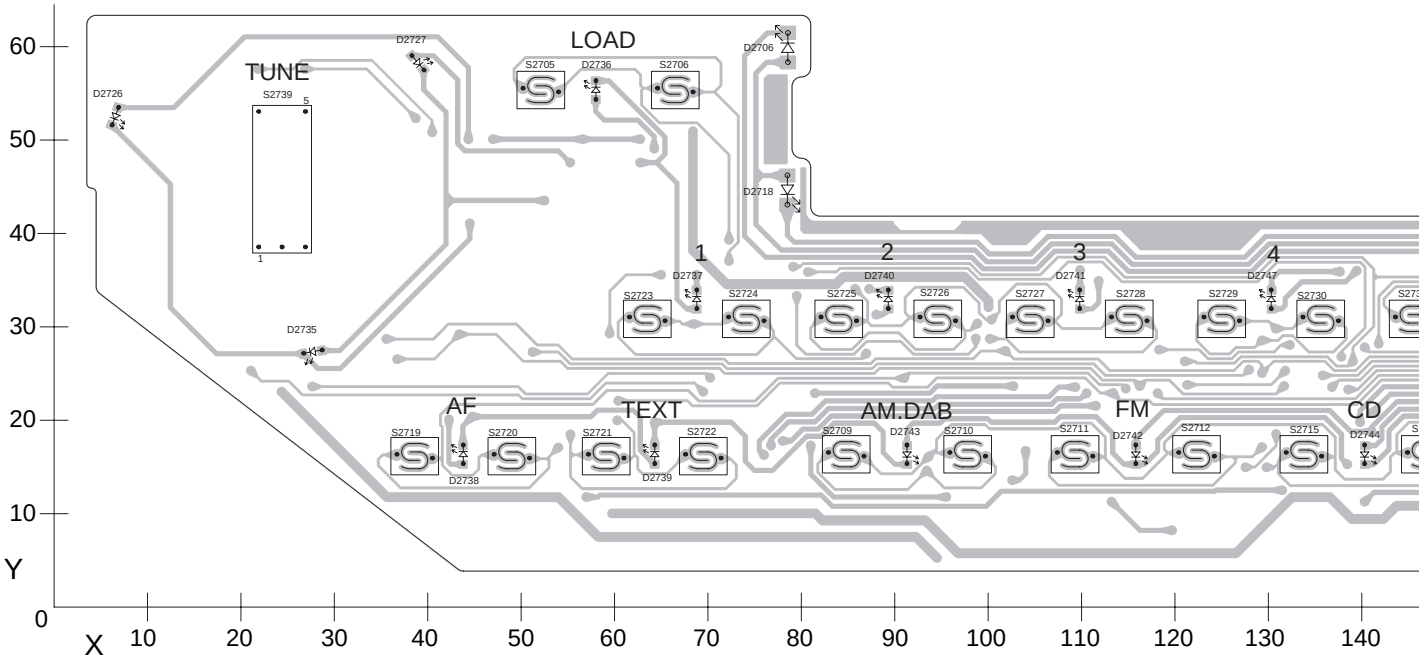
SIDE B



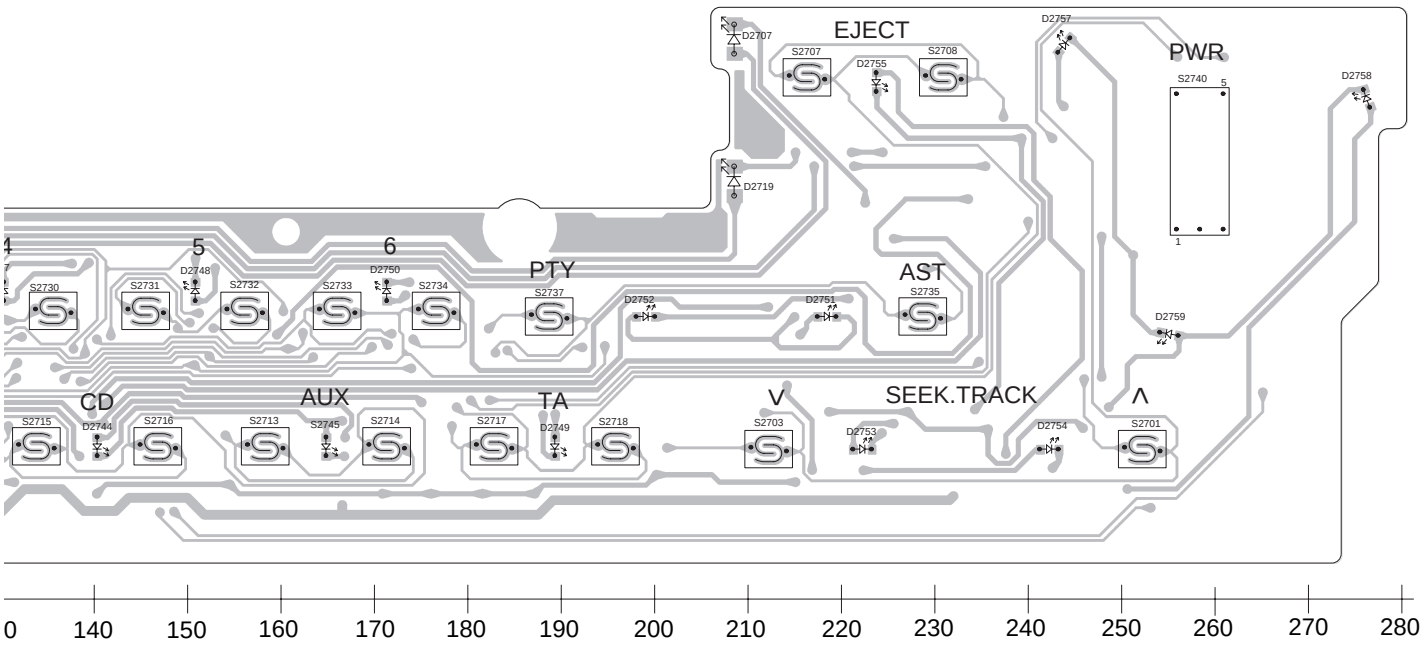
11.6 KEYBOARD UNIT (AUDIO PANEL PCB(R))

G KEYBOARD UNIT
(AUDIO PANEL PCB(R))

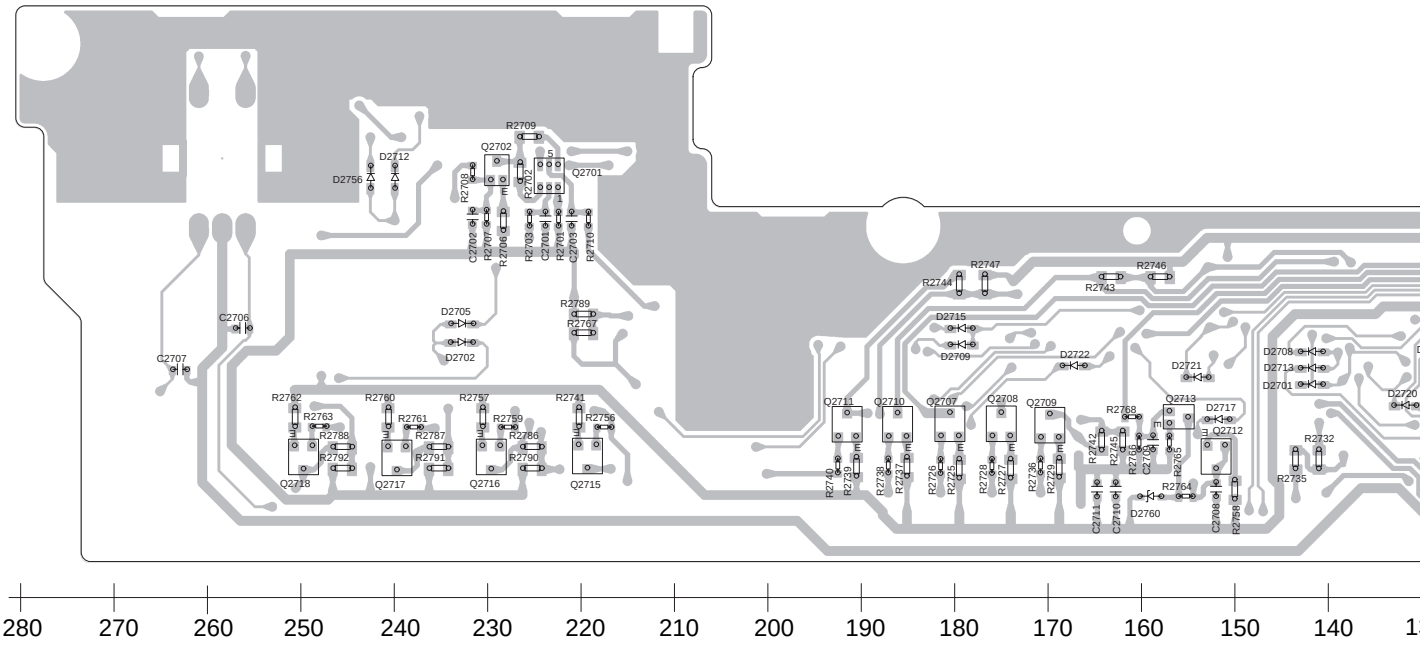
DEX-MG9487ZT/EW



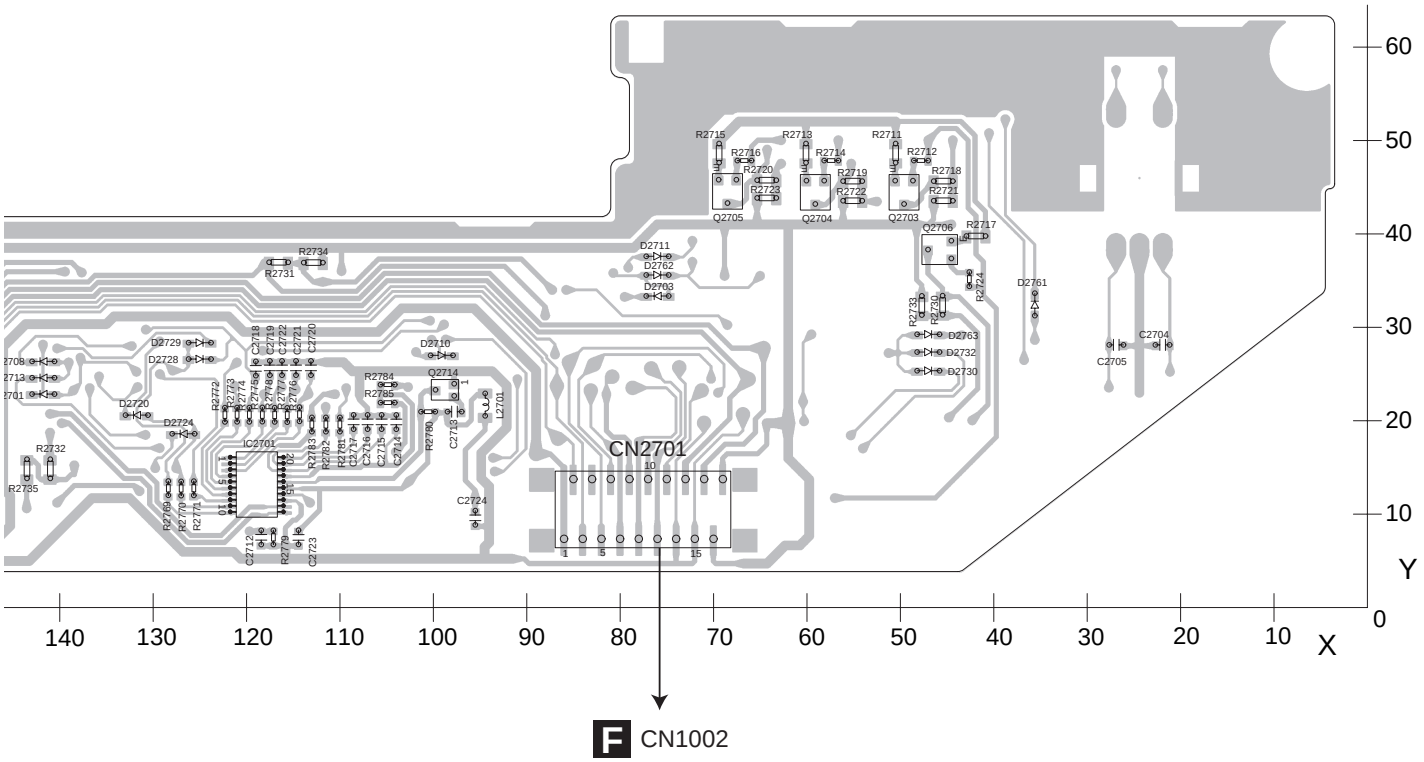
SIDE A


EJECT
PWR
PTY
AST
CD
AUX
TA
V
SEEK.TRACK
Λ
D2707
S2707
S2708
D2755
D2757
S2740
D2758
D2719
S2730
S2731
D2748
S2732
S2733
D2750
S2734
S2737
D2752
D2751
S2735
D2759
S2715
D2744
S2716
S2713
S2745
S2714
S2717
D2749
S2718
S2703
D2753
D2754
S2701
0 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280

G KEYBOARD UNIT (AUDIO PANEL PCB(R))



SIDE B

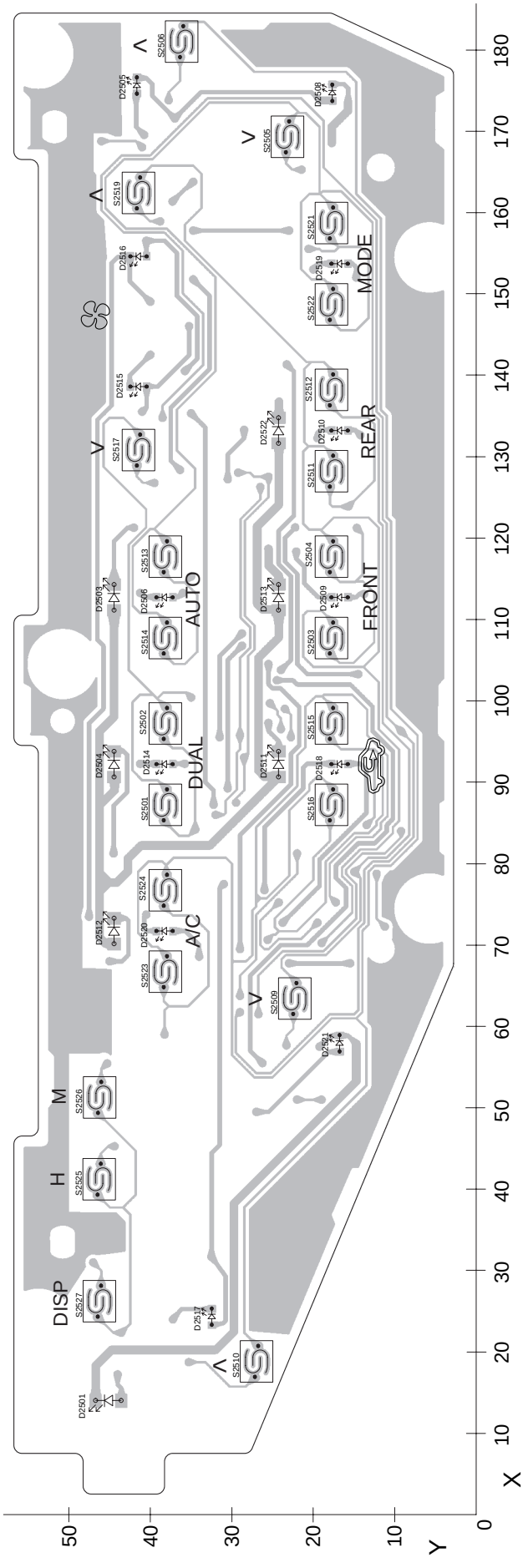

CN2701
IC2701
Q2704
Q2705
Q2703
Q2706
Q2714
R2715
R2713
R2711
R2716
R2714
R2712
R2720
R2719
R2718
R2722
R2721
R2717
R2734
R2731
D2711
D2762
D2703
D2761
D2729
D2728
D2710
D2720
D2724
D2763
D2732
D2730
C2704
C2705
R2732
R2735
C2724
C2701
C2712
C2723
R2784
R2785
R2700
C2713
X
Y
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
60
50
40
30
20
10
F CN1002

11.7 KEYBOARD UNIT (A/C PANEL PCB(R))

H KEYBOARD UNIT
(A/C PANEL PCB(R))

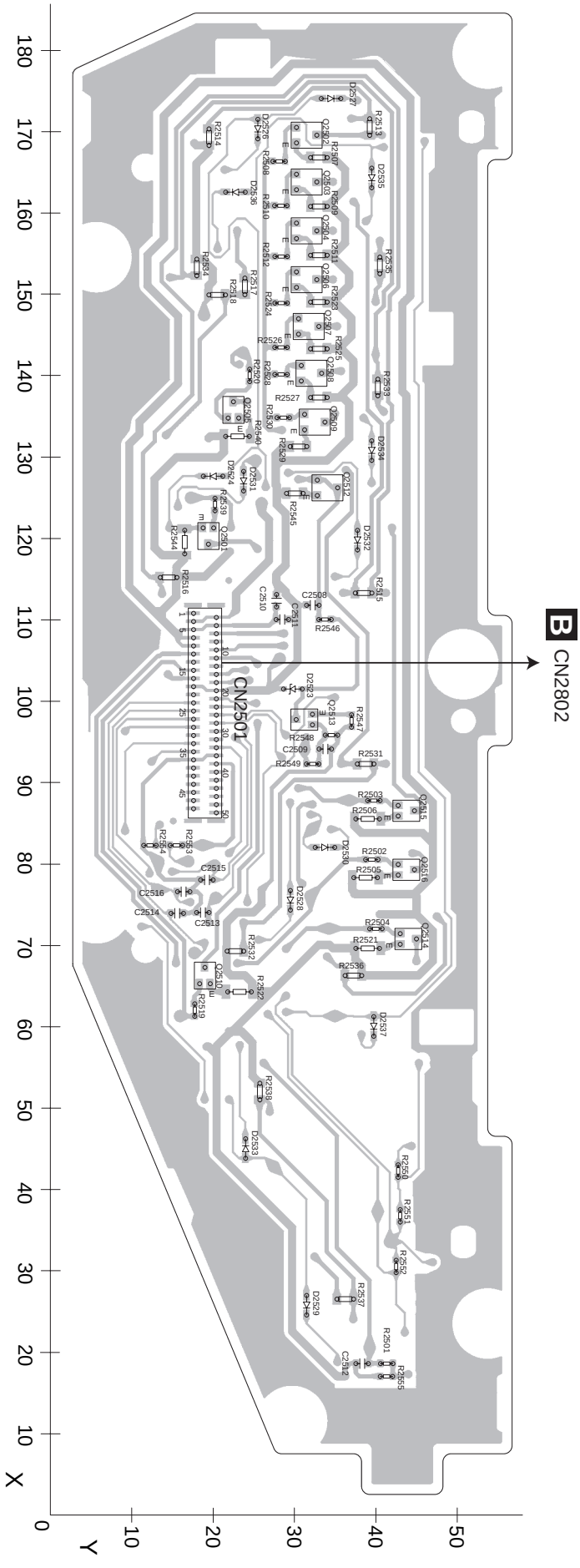
DEX-MG9487ZT/EW

SIDE A



H KEYBOARD UNIT
(A/C PANEL PCB(R))

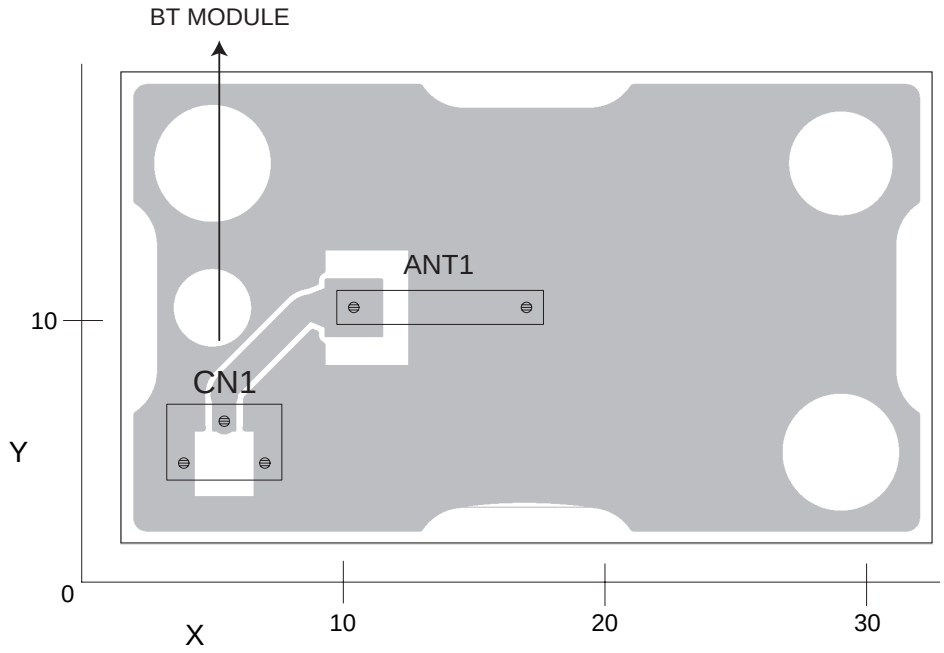
SIDE B



11.8 ANTENNA UNIT

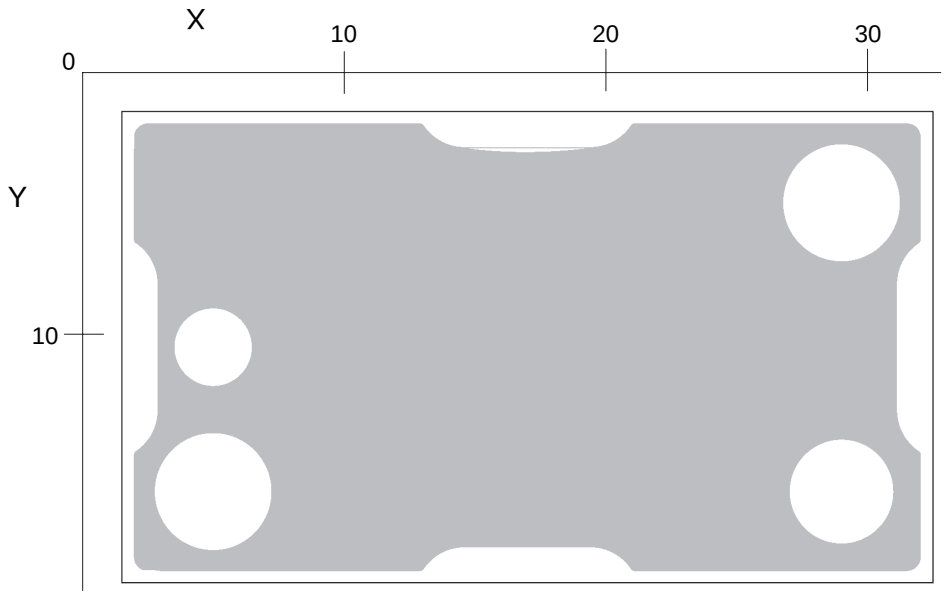
ANTENNA UNIT

SIDE A



ANTENNA UNIT

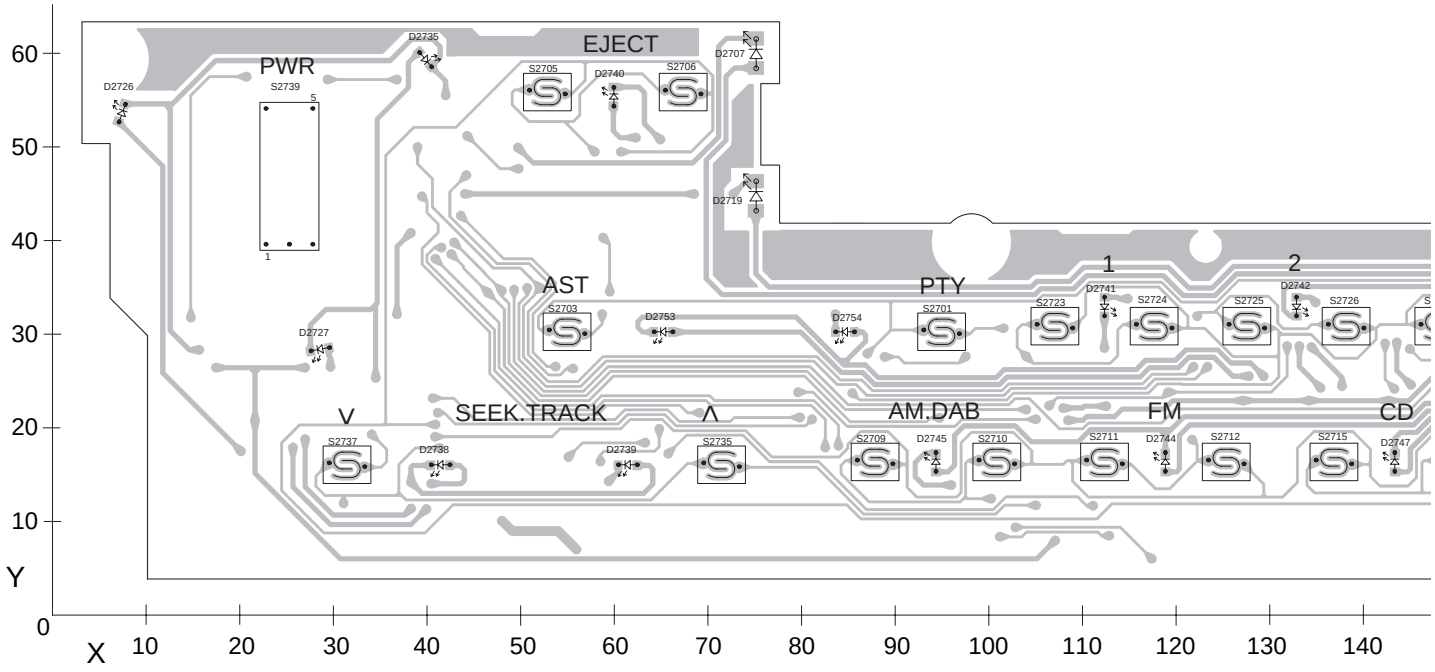
SIDE B



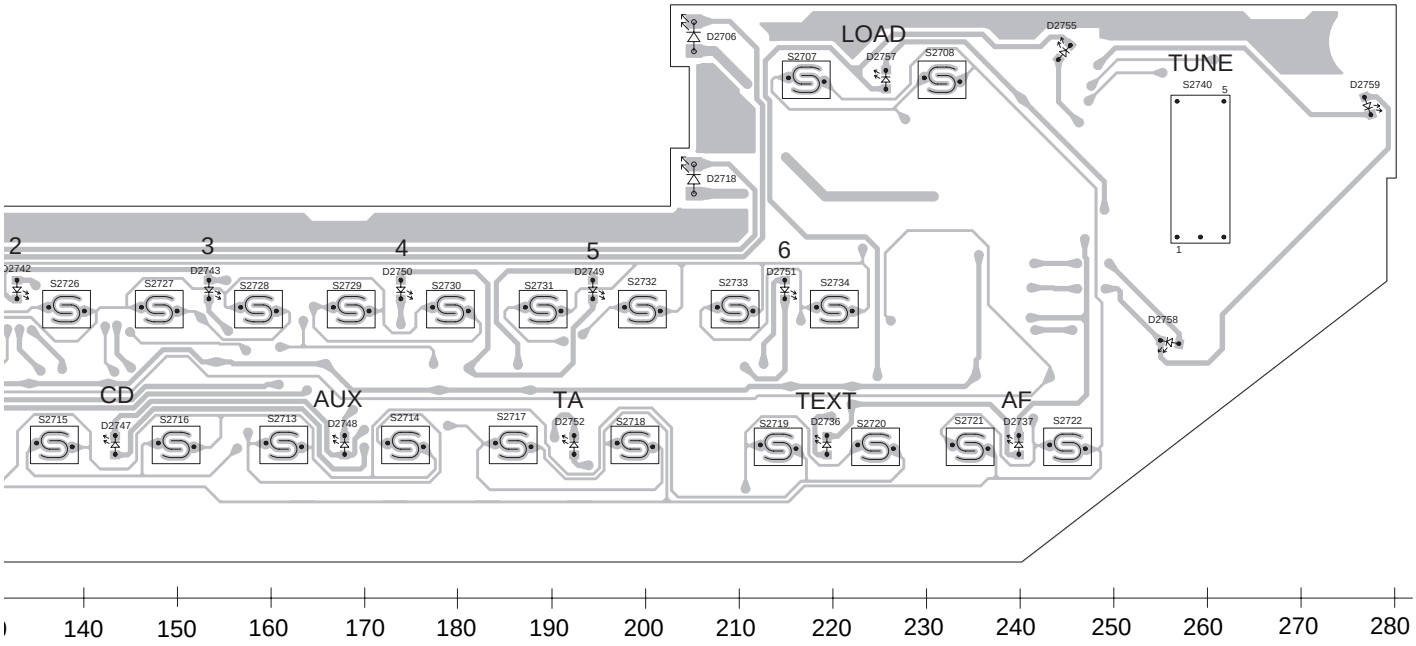
11.9 KEYBOARD UNIT (AUDIO PANEL PCB(L))

J KEYBOARD UNIT
(AUDIO PANEL PCB(L))

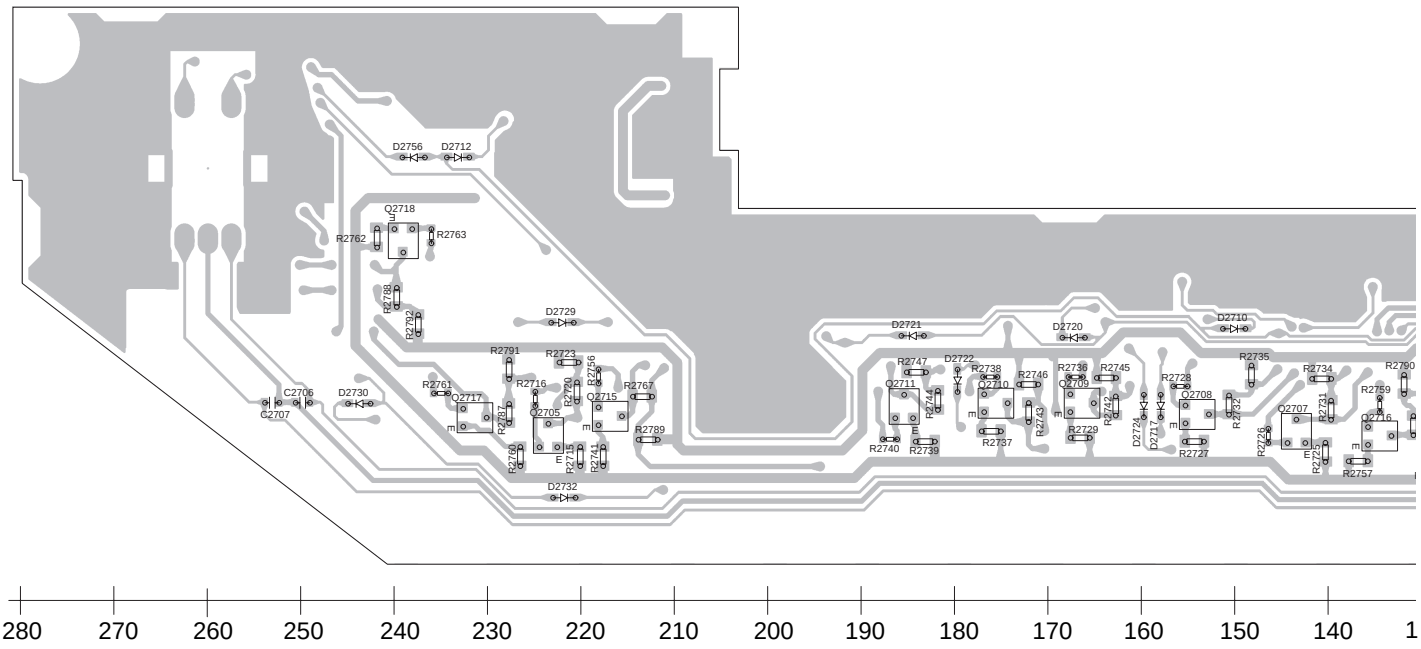
DEX-MG9587ZT/EW



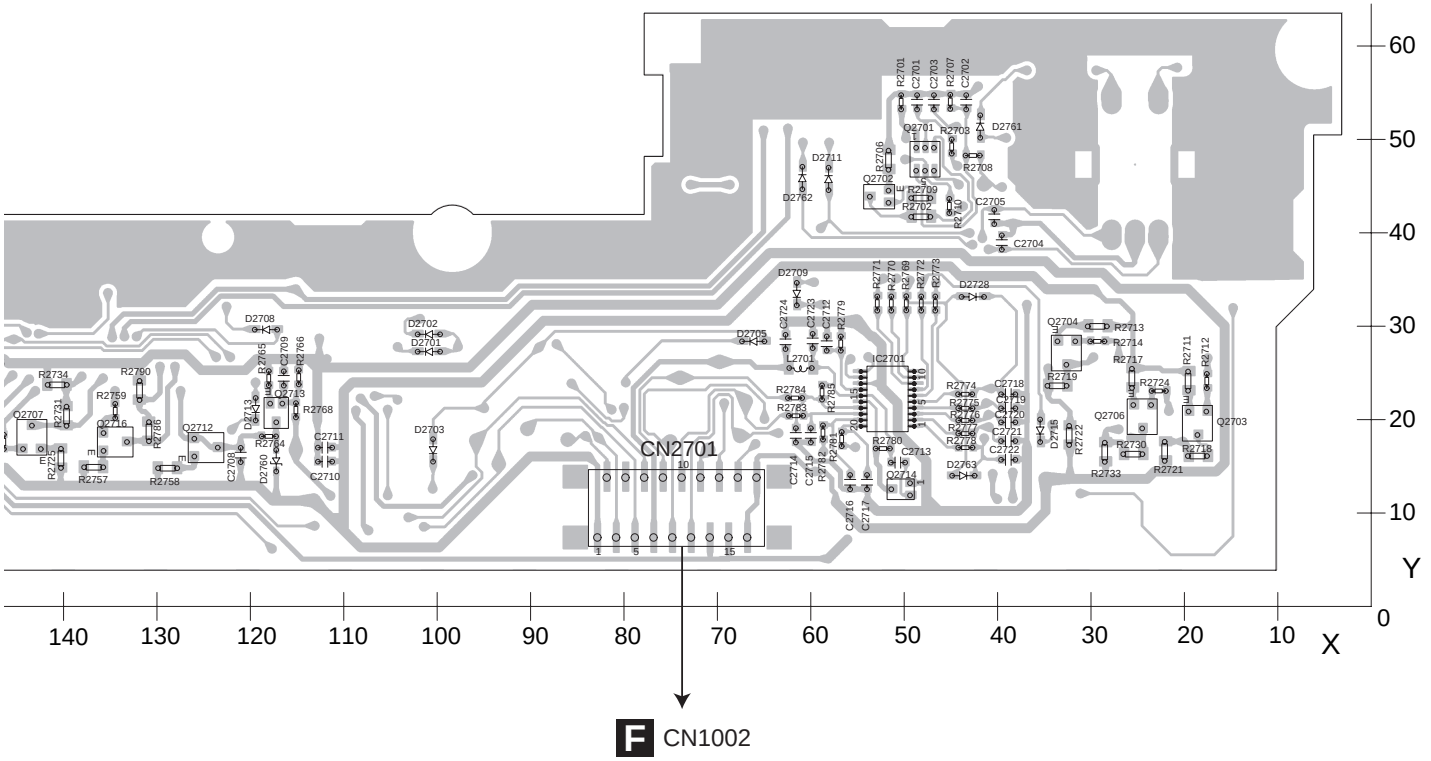
SIDE A


LOAD
TUNE
D2706
D2718
D2755
D2757
D2759
D2758
S2707
S2708
S2740
2
3
4
5
6
S2726
S2727
S2728
S2729
S2730
S2731
S2732
S2733
S2734
D2742
D2743
D2750
D2749
D2751
CD
AUX
TA
TEXT
AF
S2715
S2716
S2713
S2714
S2717
S2718
S2719
S2720
S2721
S2722
D2747
D2748
D2752
D2736
D2737
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280

J KEYBOARD UNIT
(AUDIO PANEL PCB(L))



SIDE B



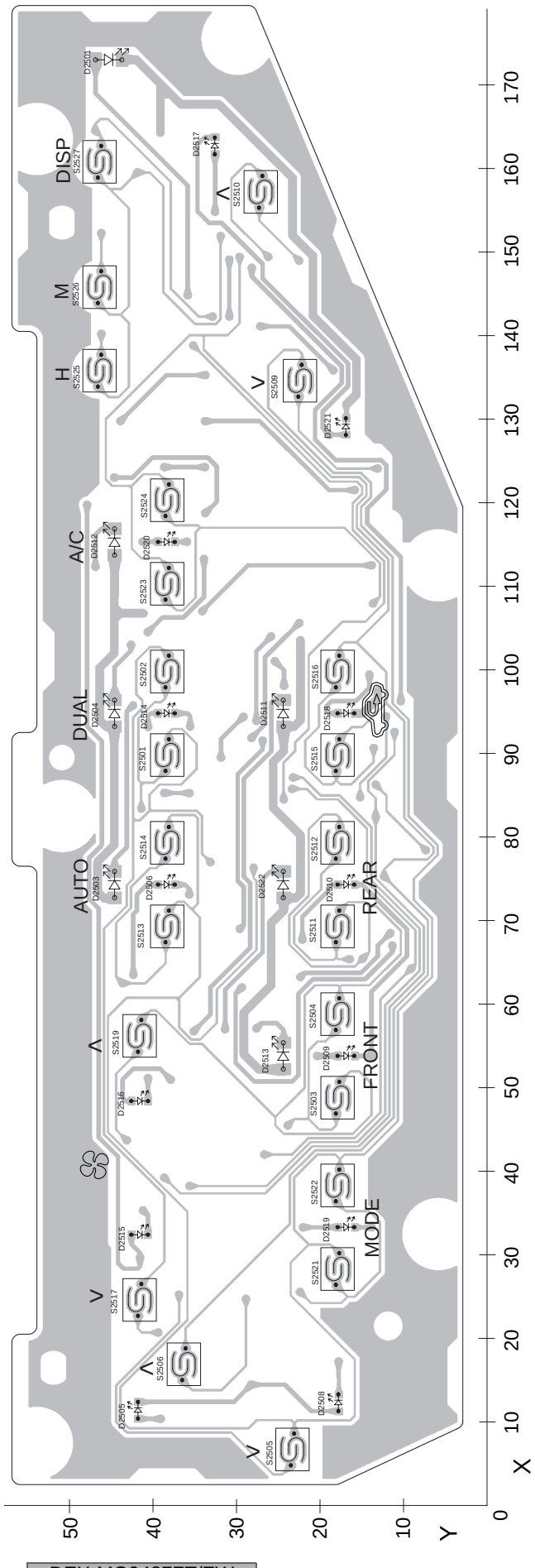
F CN1002

11.10 KEYBOARD UNIT (A/C PANEL PCB(L))

K KEYBOARD UNIT
(A/C PANEL PCB(L))

DEX-MG9587ZT/EW

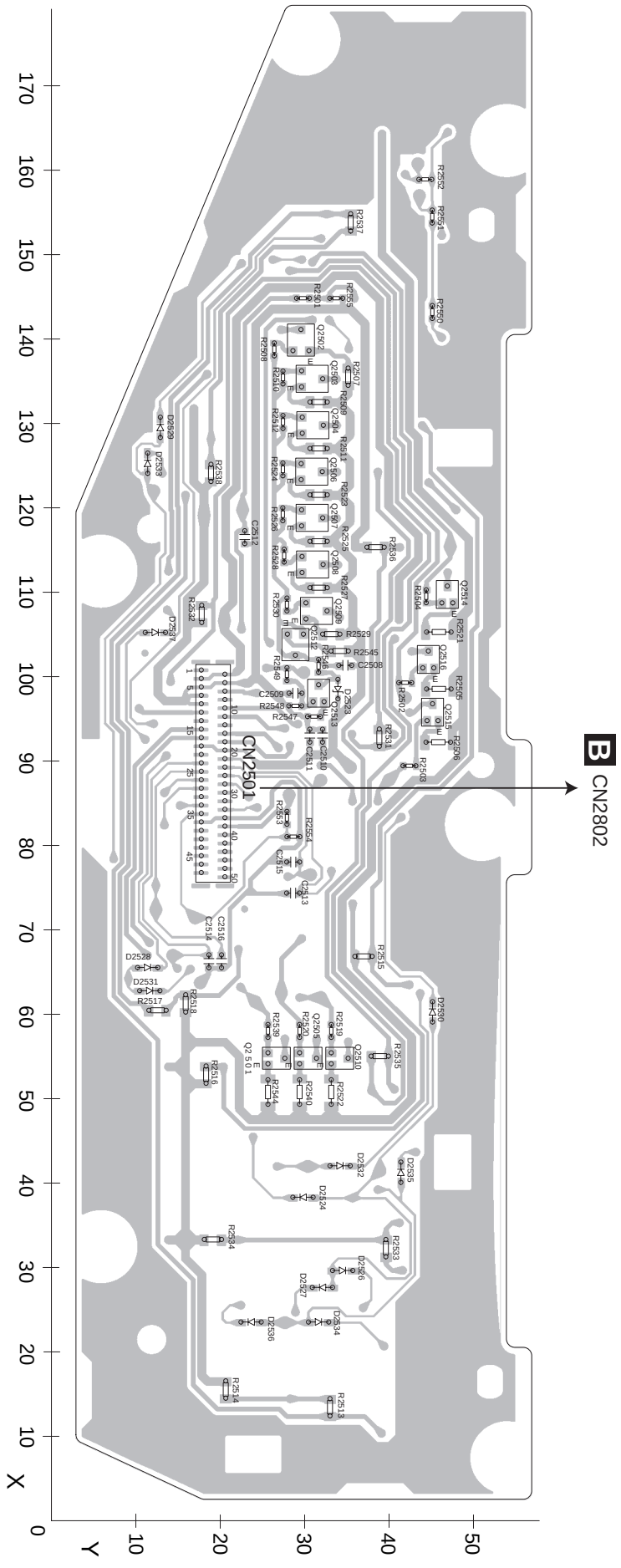
SIDE A



DEX-MG9487ZT/EW

K KEYBOARD UNIT
(A/C PANEL PCB(L))

SIDE B



12. ELECTRICAL PARTS LIST

NOTE:

- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.*

  Chip Resistor

  RS1/◯S◯◯◯J,RS1/◯◯S◯◯◯J

  Chip Capacitor (except for CQS.....)

  CKS....., CCS....., CSZS.....
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

- *The expression of the unit in this manual is shown by u instead of µ. Please do not make a mistake.*

Unit Number : CWN2680
Unit Name : Main Unit
Unit Number : CWN3773
Unit Name : Panel Control Unit
Unit Number : CWN2684
Unit Name : Connector Unit
Unit Number : (MG9487ZT)
Unit Name : Keyboard Unit(Audio Panel PCB(R))
Unit Number : (MG9487ZT)
Unit Name : Keyboard Unit(A/C Panel PCB(R))
Unit Number : CWN3673
Unit Name : Antenna Unit
Unit Number : (MG9587ZT)
Unit Name : Keyboard Unit(Audio Panel PCB(L))
Unit Number : (MG9587ZT)
Unit Name : Keyboard Unit(A/C Panel PCB(L))
Unit Number : CWX3490
Unit Name : Control Unit
Unit Number : CWX3613
Unit Name : PCB Assy

A

Unit Number : CWN2680
Unit Name : Main Unit

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 201	(A,63,15) IC	NJM4580V
IC 202	(A,99,18) IC	AK4647VQ
IC 203	(A,128,13) IC	AK4647VQ
IC 401	(A,50,15) IC	TC74VHCT08AFTS1
IC 402	(A,52,20) L-MOS And Gate	TC7SET08FUS1
IC 403	(A,48,20) IC	TC7SH08FUS1
IC 404	(B,95,37) IC	HA12241FP
IC 405	(A,80,40) IC	PEG434A8
IC 501	(B,90,25) IC	S-93C66BD0I-J8
IC 600	(B,48,67) IC	NJM4580V
IC 601	(B,50,63) IC	NJM4580V
IC 602	(A,62,68) IC	NJM4580V
IC 603	(A,53,67) IC	NJM4580V
IC 605	(A,56,77) IC	NJM4580V
IC 606	(B,66,72) IC	BD3842FS
IC 607	(B,60,92) IC	OPA2134UA
IC 608	(B,60,98) IC	OPA2134UA
IC 701	(B,108,83) IC	TC7S08FU
IC 702	(B,119,135) IC	TC7S08FU
IC 703	(B,100,77) IC	S-812C56AUA-C3K
IC 704	(B,79,59) IC	S-812C33AUA-C2N
IC 705	(A,82,16) IC	S-80930CNNB-G80
IC 802	(B,153,55) IC	BD9011EKN
IC 861	(A,130,58) IC	BD9300FV-F
IC 901	(A,114,12) IC	BA00DD0WHFP
IC 902	(B,112,50) IC	BA33BC0WFP
IC 905	(A,102,59) IC	BA3257HFP
IC 906	(B,139,25) IC	TC7SH08FUS1
Q 104	(B,44,32) Transistor	2SA1576A
Q 105	(B,44,29) Transistor	2SA1576A
Q 109	(A,49,36) Transistor	UMH4N
Q 201	(A,110,26) Chip Transistor	DTA114EUA
Q 401	(B,56,137) Transistor	2SC4081
Q 402	(B,66,61) Chip Transistor	DTA114EUA
Q 403	(B,63,60) Transistor	2SC4081
Q 428	(B,56,50) Transistor	2SA1587
Q 600	(A,64,105) Transistor	UMH3N
Q 601	(A,59,108) Transistor	UMH3N
Q 602	(A,65,108) Transistor	UMH3N
Q 603	(A,59,105) Transistor	UMH3N
Q 604	(A,65,111) Transistor	UMH3N
Q 605	(B,87,77) Transistor	UMT1N

Circuit Symbol and No.		Part No.
Q 606	(B,87,74) Transistor	UMT1N
Q 607	(B,87,71) Transistor	UMX1N
Q 608	(A,59,110) Transistor	UMH3N
Q 701	(B,108,88) Chip Transistor	DTC114EUA
Q 702	(B,109,93) Transistor	2SA1576A
Q 703	(B,111,84) Transistor	2SC4081
Q 704	(B,111,77) Transistor	UMX1N
Q 705	(B,118,138) Transistor	2SC4081
Q 706	(B,68,139) Transistor	2SC4081
Q 707	(B,64,137) Transistor	UMD2N
Q 708	(B,63,24) Transistor	UMD9N
Q 709	(B,63,27) Chip Transistor	UMB11N
Q 710	(B,58,25) Transistor	UMD12N
Q 711	(A,110,89) Transistor	2SB1184F5
Q 712	(A,108,81) Chip Transistor	2SA1576A
Q 713	(A,106,81) Transistor	2SC4081
Q 714	(A,103,81) Transistor	2SC4081
Q 715	(B,85,61) Transistor	2SB1132
Q 716	(A,93,62) Transistor	UMD9N
Q 717	(A,93,59) Digital Transistor	DTC144EUA
Q 718	(B,72,60) Transistor	UMZ1N
Q 719	(B,72,55) Transistor	UMZ1N
Q 802	(A,164,54) Digital Transistor	DTC144EUA
Q 803	(A,138,50) FET	SP8K2
Q 804	(A,148,49) FET	SP8K2
Q 861	(A,166,57) Digital Transistor	DTC144EUA
Q 862	(A,126,51) Transistor	IMZ4
Q 863	(A,132,50) P-CH MOS FET	RSS075P03
Q 903	(B,145,22) Transistor	UMD3N
Q 904	(A,149,19) Transistor	2SB1412
Q 905	(B,145,18) Transistor	UMX1N
Q 906	(A,29,9) Transistor	UMX1N
Q 907	(B,29,11) Transistor	2SB1698
Q 908	(A,35,10) Transistor	2SC4081
Q 909	(B,34,11) Transistor	2SB1260
Q 910	(B,85,136) Transistor	2SB1260
Q 911	(B,92,136) Transistor	UMX1N
Q 912	(A,51,108) Transistor	UMX1N
Q 913	(A,52,114) Transistor	2SB1260
Q 914	(A,83,67) Transistor	UMX1N
Q 915	(A,90,71) Transistor	2SB1698
Q 916	(A,155,80) Digital Transistor	DTA113TKA
Q 917	(A,157,89) Transistor	2SB1260
Q 918	(B,159,90) Transistor	UMX1N
Q 919	(B,159,83) Transistor	UMX1N
Q 920	(B,163,79) Transistor	DTA114TUA
Q 921	(B,41,19) Transistor	2SB1708
Q 922	(B,47,21) Transistor	2SC4081
Q 923	(B,68,25) Transistor	UMZ1N
Q 924	(B,74,63) Transistor	UMD22N
D 301	(A,75,110) Diode	ST70-27F
D 302	(B,55,86) Diode	UDZS4R7(B)
D 401	(B,58,136) Diode	1SS355
D 402	(B,53,136) Diode	UDZS18(B)
D 405	(A,57,57) Diode	1SS355
D 406	(A,57,53) Diode	1SS355
D 407	(A,57,55) Diode	1SS355
D 408	(B,74,111) Diode	UDZS18(B)
D 409	(B,69,111) Diode	UDZS18(B)
D 427	(B,57,56) Diode	1SS355

Circuit Symbol and No.		Part No.
D 600	(A,84,75) Diode	UDZS4R7(B)
D 602	(B,90,67) Diode	1SS355
D 605	(B,88,67) Diode	1SS355
D 701	(B,113,91) Diode	HZU9R1(B1)
D 702	(B,111,91) Diode	HZU8R2(B1)
D 703	(B,114,138) Diode	HZU8R2(B1)
D 704	(B,69,136) Diode	HZU6R2(B2)
D 705	(B,61,135) Diode	1SS355
D 706	(B,73,133) Diode	UDZS16(B)
D 707	(A,95,80) Diode	1SR154-400
D 708	(A,99,80) Diode	RB161M-20
D 709	(B,104,75) Diode	UDZS16(B)
D 710	(B,104,80) Diode	UDZS9R1(B)
D 711	(A,96,59) Diode	1SS355
D 802	(B,117,77) Diode	DAN202U
D 803	(B,137,38) Diode	M1FJ4
D 804	(B,147,59) Diode	1SS355
D 805	(B,146,51) Diode	1SS355
D 806	(B,146,44) Diode	M1FJ4
D 807	(A,95,77) Diode	RB083L-20
D 809	(B,118,72) Diode	1SR154-400
D 861	(A,126,53) Diode	UDZS18(B)
D 862	(B,129,43) Diode	D1FM3
D 901	(B,116,22) Diode	1SR154-400
D 902	(B,149,18) Diode	HZU7R5(B2)
D 903	(B,141,22) Diode	1SS355
D 904	(A,28,13) Diode	1SS355
D 905	(A,27,13) Diode	HZU8R2(B1)
D 906	(A,33,12) Diode	1SS355
D 907	(A,68,13) Diode	HZU2R7(B1)
D 908	(A,47,115) Diode	RR264M-400
D 909	(A,46,113) Diode	RR264M-400
D 910	(A,84,71) Diode	1SS355
D 911	(A,80,71) Diode	HZU8R2(B1)
D 912	(B,159,92) Diode	HZU8R2(B3)
D 913	(B,158,81) Diode	1SS355
D 914	(A,90,78) Diode	RB051L-40
D 915	(B,88,133) Diode	HZU4R3(B3)
D 916	(B,87,139) Diode	1SS355
D 917	(B,43,21) Diode	1SS355
L 104	(A,18,107) Inductor	LCKAW330J2520
L 106	(B,29,72) Chip Coil	LCTAW1R0J2520
L 108	(B,29,49) Chip Coil	LCTAW1R0J2520
L 109	(B,29,53) Chip Coil	LCTAW1R0J2520
L 110	(A,34,30) Chip Coil	LCTAW1R0J2520
L 111	(B,25,102) Inductor	LCYBR12J1608
L 201	(A,101,26) Inductor	CTF1295
L 202	(A,119,22) Inductor	CTF1295
L 301	(A,82,93) Choke Coil 95 uH	CTH1301
L 402	(B,138,10) Inductor	CTF1306
L 403	(B,135,18) Inductor	CTF1306
L 404	(B,140,10) Inductor	CTF1306
L 405	(B,137,18) Inductor	CTF1306
L 407	(B,146,10) Inductor	CTF1295
L 408	(B,141,10) Inductor	CTF1306
L 409	(A,44,13) Inductor	CTF1473
L 410	(A,49,23) Inductor	CTF1473
L 411	(A,46,20) Inductor	CTF1473
L 412	(B,93,41) Inductor	CTF1473
L 414	(A,89,54) Inductor	CTF1473

Circuit Symbol and No.		Part No.
L 415	(B,67,53) Inductor	CTF1473
L 600	(B,73,72) Inductor	CTF1473
L 703	(B,71,63) Inductor	CTF1473
L 704	(A,84,61) Inductor	CTF1473
L 705	(A,86,61) Inductor	CTF1295
L 805	(A,142,59) Choke Coil 2.2 uH	CTH1380
L 806	(B,133,54) Inductor	CTF1688
L 807	(A,141,39) Inductor	CTH1257
L 808	(A,142,47) Inductor	CTF1661
L 809	(A,144,47) Inductor	CTF1661
L 810	(A,153,47) Inductor	CTF1661
L 811	(B,149,43) Inductor	CTF1661
L 812	(A,165,36) Choke Coil 1 uH	CTH1358
L 813	(A,152,39) Inductor	CTH1257
L 814	(A,155,26) Choke Coil 1 uH	CTH1358
L 815	(B,116,37) Inductor	CTF1688
L 816	(B,116,41) Inductor	CTF1688
L 861	(A,128,47) Inductor	CTF1661
L 862	(B,128,47) Inductor	CTF1661
L 863	(A,130,39) Inductor	CTH1257
L 864	(A,116,35) Choke Coil 1 uH	CTH1358
L 901	(A,107,16) Inductor	CTF1487
L 902	(B,108,41) Inductor	CTF1487
L 906	(A,137,17) Inductor	CTF1558
L 907	(A,106,50) Chip Coil	LCTAW330J2520
L 908	(B,105,49) Inductor	CTF1357
L 909	(B,30,16) Inductor	CTF1295
L 910	(A,41,15) Inductor	CTF1467
L 911	(B,37,13) Inductor	CTF1629
L 912	(A,41,12) Inductor	CTF1467
TH901	(A,159,72) Thermistor	CCX1074
X 401	(A,82,23) Oscillator 24.000 MHz	CSS1716
VR802	(A,165,44) Semi-fixed 33 kohm(OB)	CCP1510
VR861	(A,164,64) Semi-fixed 33 kohm(OB)	CCP1510
P 101	(A,23,105) Surge Protector	IMSA-6802-01Y900
P 102	(A,20,106) Surge Protector	IMSA-6802-01Y900
⚠P301	(B,104,122) Fuse 8 A	CEK1263
⚠P801	(B,134,66) Fuse 5 A	CEK1261
VL103	(A,17,101) Coil	CTB1113
U 101	(A,19,91) FM/AM Tuner Unit	CWE2029

RESISTORS

R 9	(B,157,21)	RS1/16S822J
R 101	(A,40,103)	RS1/16S223J
R 106	(A,22,99)	RS1/16S222J
R 114	(B,39,69)	RS1/16SS682J
R 115	(B,39,65)	RS1/16SS682J
R 116	(B,48,52)	RS1/16SS681J
R 117	(B,48,49)	RS1/16SS681J
R 118	(B,39,58)	RS1/16SS681J
R 119	(B,39,56)	RS1/16SS681J
R 120	(B,39,55)	RS1/16SS681J
R 121	(B,39,54)	RS1/16SS681J
R 122	(B,39,53)	RS1/16SS222J
R 123	(B,49,41)	RS1/16SS681J
R 124	(B,48,51)	RS1/16SS681J
R 125	(B,48,47)	RS1/16SS681J
R 126	(B,39,66)	RS1/16SS332J
R 127	(B,39,68)	RS1/16SS332J
R 128	(A,45,32)	RS1/16S471J
R 129	(A,47,32)	RS1/16S272J
R 130	(A,47,29)	RS1/16S272J
R 134	(A,47,35)	RS1/16S182J
R 135	(A,51,35)	RS1/16S182J
R 136	(A,34,35)	RS1/4SA1R0J
R 201	(A,58,16)	RS1/16S2201D
R 202	(A,59,12)	RS1/16S2201D
R 203	(A,60,19)	RS1/16S2202D
R 204	(A,64,13)	RS1/16S1502D
R 205	(A,62,12)	RS1/16S2202D
R 206	(A,62,20)	RS1/16S1502D
R 207	(A,87,13)	RS1/16S473J
R 208	(B,87,14)	RS1/16S471J
R 209	(A,89,13)	RS1/16S473J
R 210	(B,100,17)	RS1/16SS203J
R 211	(B,100,15)	RS1/16SS203J
R 212	(B,100,18)	RS1/16SS200J
R 213	(B,100,14)	RS1/16SS200J
R 214	(B,100,24)	RS1/16SS682J
R 215	(A,97,24)	RS1/16SS473J
R 216	(A,92,16)	RS1/16S220J
R 217	(A,92,18)	RS1/16SS220J
R 218	(A,92,17)	RS1/16SS220J
R 219	(A,92,22)	RS1/16SS681J
R 220	(A,96,24)	RS1/16SS102J
R 221	(A,92,19)	RS1/16SS681J
R 222	(A,92,21)	RS1/16SS681J
R 223	(B,125,26)	RS1/16SS203J
R 224	(B,128,26)	RS1/16SS203J
R 225	(A,127,25)	RS1/16SS200J
R 226	(A,131,26)	RS1/16SS200J
R 227	(A,122,13)	RS1/16S103J
R 228	(B,125,12)	RS1/16S473J
R 229	(A,124,6)	RS1/16S681J
R 230	(A,122,10)	RS1/16S102J
R 231	(A,127,6)	RS1/16S681J
R 232	(A,125,6)	RS1/16S681J
R 301	(B,59,83)	RS1/16S222J
R 401	(A,155,15)	RS1/16S0R0J
R 402	(A,128,6)	RS1/16S330J
R 403	(A,131,6)	RS1/16S330J
R 404	(A,130,6)	RS1/16S330J
R 405	(B,54,7)	RS1/16S472J
R 406	(B,45,5)	RS1/16S472J
R 407	(B,43,5)	RS1/16S472J
R 408	(B,42,5)	RS1/16S472J
R 409	(B,41,5)	RS1/16S472J
R 410	(B,39,5)	RS1/16S472J
R 411	(B,56,134)	RS1/16S103J
R 412	(A,70,22)	RS1/16S102J
R 413	(A,54,20)	RS1/16S102J
R 414	(B,50,136)	RS1/10S221J
R 416	(A,48,92)	RS1/10S102J
R 417	(B,62,57)	RS1/10S101J
R 418	(B,62,63)	RS1/16S392J
R 419	(A,62,55)	RS1/16S103J
R 420	(A,62,52)	RS1/16S122J
R 421	(A,62,54)	RS1/16S122J
R 422	(B,67,64)	RS1/16S561J

Circuit Symbol and No.		Part No.
R 423	(B,69,55)	RS1/16S473J
R 424	(B,74,109)	RS1/4SA101J
R 425	(B,69,109)	RS1/4SA101J
R 426	(B,89,37)	RS1/16S472J
R 427	(B,89,35)	RS1/16S472J
R 428	(A,72,96)	RS1PMF680J
R 429	(A,63,32)	RS1/16S102J
R 430	(A,63,33)	RS1/16S102J
R 431	(A,66,45)	RS1/16S472J
R 432	(A,66,44)	RS1/16S222J
R 433	(A,66,42)	RS1/16S222J
R 434	(A,66,41)	RS1/16S102J
R 435	(A,65,39)	RS1/16S222J
R 436	(A,65,38)	RS1/16S102J
R 437	(A,63,36)	RS1/16S102J
R 438	(A,66,36)	RS1/16S102J
R 440	(A,65,19)	RS1/16S473J
R 441	(A,67,19)	RS1/16S473J
R 443	(A,66,22)	RS1/16S101J
R 444	(B,55,54)	RS1/16S432J
R 445	(A,67,25)	RS1/16S101J
R 446	(A,68,25)	RS1/16S101J
R 447	(A,70,53)	RS1/16S102J
R 448	(A,68,22)	RS1/16S101J
R 449	(B,74,29)	RS1/16S102J
R 450	(A,72,54)	RS1/16S102J
R 451	(A,71,20)	RS1/16S102J
R 452	(A,75,54)	RS1/16S102J
R 453	(A,72,22)	RS1/16S102J
R 454	(A,69,56)	RS1/16S102J
R 455	(A,72,20)	RS1/16S102J
R 456	(A,73,22)	RS1/16S102J
R 457	(A,76,54)	RS1/16S102J
R 458	(A,74,20)	RS1/16S102J
R 459	(A,74,22)	RS1/16S102J
R 460	(A,78,54)	RS1/16S102J
R 461	(A,75,20)	RS1/16S102J
R 462	(A,77,57)	RS1/16S102J
R 463	(A,76,22)	RS1/16S102J
R 464	(A,133,26)	RS1/16SS473J
R 466	(A,77,22)	RS1/16S471J
R 467	(A,79,20)	RS1/16S473J
R 468	(A,80,53)	RS1/16S471J
R 469	(A,79,23)	RS1/16S102J
R 470	(A,80,57)	RS1/16S471J
R 473	(B,81,50)	RS1/16S102J
R 474	(B,72,53)	RS1/16SS102J
R 475	(B,83,50)	RS1/16S103J
R 476	(B,72,51)	RS1/16SS473J
R 477	(B,57,53)	RS1/16SS512J
R 478	(A,84,26)	RS1/16S473J
R 479	(A,84,54)	RS1/16S102J
R 480	(A,85,26)	RS1/16S471J
R 481	(A,82,58)	RS1/16S102J
R 482	(A,86,54)	RS1/16S102J
R 483	(A,86,56)	RS1/16S102J
R 484	(A,87,54)	RS1/16S471J
R 485	(A,86,26)	RS1/16S102J
R 486	(A,88,26)	RS1/16S102J
R 487	(A,88,56)	RS1/16S471J

Circuit Symbol and No.		Part No.
R 488	(B,95,31)	RS1/16S101J
R 489	(A,95,51)	RS1/16S471J
R 490	(B,89,38)	RS1/16S101J
R 492	(A,94,49)	RS1/16S102J
R 493	(B,93,46)	RS1/16S102J
R 494	(B,96,46)	RS1/16S473J
R 495	(A,100,41)	RS1/16S221J
R 496	(A,94,31)	RS1/16S102J
R 497	(B,89,33)	RS1/16S101J
R 498	(A,94,48)	RS1/16S471J
R 499	(A,97,47)	RS1/16S471J
R 500	(A,94,46)	RS1/16S471J
R 501	(A,94,45)	RS1/16S102J
R 502	(A,97,43)	RS1/16S102J
R 503	(A,94,43)	RS1/16S102J
R 504	(A,99,40)	RS1/16S221J
R 505	(A,94,37)	RS1/16S101J
R 506	(A,97,37)	RS1/16S221J
R 507	(A,94,36)	RS1/16S221J
R 508	(A,97,35)	RS1/16S101J
R 509	(A,94,35)	RS1/16S101J
R 510	(A,97,34)	RS1/16S102J
R 511	(A,94,33)	RS1/16S102J
R 512	(A,97,31)	RS1/16S473J
R 513	(A,55,81)	RS1/16S2201D
R 514	(A,100,32)	RS1/16S473J
R 515	(A,100,34)	RS1/16S473J
R 516	(A,100,35)	RS1/16S472J
R 517	(A,53,81)	RS1/16S3301D
R 518	(A,100,37)	RS1/16S472J
R 519	(A,100,38)	RS1/16S472J
R 520	(A,97,45)	RS1/16S473J
R 521	(A,97,38)	RS1/16S103J
R 522	(B,100,41)	RS1/16S104J
R 523	(B,84,32)	RS1/16S473J
R 524	(A,102,41)	RS1/16SS473J
R 525	(B,55,18)	RS1/16S473J
R 526	(A,81,54)	RS1/16S102J
R 527	(B,134,10)	RS1/16S151J
R 528	(B,136,10)	RS1/16S104J
R 529	(B,103,31)	RS1/16SS102J
R 530	(B,86,51)	RS1/16SS102J
R 531	(B,85,51)	RS1/16SS473J
R 532	(A,89,23)	RS1/16S102J
R 533	(A,87,23)	RS1/16S102J
R 534	(B,86,23)	RS1/16S472J
R 535	(B,58,109)	RS1/16S680J
R 536	(A,56,109)	RS1/16S680J
R 537	(A,73,54)	RS1/16S102J
R 538	(A,90,26)	RS1/16S473J
R 539	(B,86,25)	RS1/16S473J
R 540	(B,68,38)	RS1/16SS102J
R 542	(B,68,44)	RS1/16S473J
R 554	(B,104,43)	RS1/16SS102J
R 555	(A,95,41)	RS1/16SS102J
R 556	(A,86,21)	RS1/16SS102J
R 600	(B,44,78)	RS1/10S103J
R 601	(B,50,78)	RS1/10S103J
R 602	(B,47,78)	RS1/10S103J
R 603	(B,54,78)	RS1/10S103J

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 604	(B,43,75)	RS1/16S562J	R 670	(B,66,99)	RS1/16S153J
R 605	(B,50,75)	RS1/16S562J	R 671	(B,60,103)	RS1/16S104J
R 606	(B,47,75)	RS1/16S682J	R 672	(B,56,103)	RS1/16S104J
R 607	(B,54,75)	RS1/16S682J	R 673	(B,63,103)	RS1/16S104J
R 608	(B,51,73)	RS1/16S393J	R 674	(B,53,103)	RS1/16S104J
R 609	(B,54,73)	RS1/16S393J	R 675	(B,61,108)	RS1/16S680J
R 610	(B,52,71)	RS1/16S473J	R 676	(B,56,108)	RS1/16S680J
R 611	(B,43,68)	RS1/16SS473J	R 677	(A,63,108)	RS1/16S680J
R 612	(B,45,65)	RS1/16SS393J	R 678	(A,56,106)	RS1/16S680J
R 613	(B,44,70)	RS1/16SS393J	R 683	(B,84,78)	RS1/16S3302D
R 614	(B,45,60)	RS1/16SS123J	R 684	(B,84,77)	RS1/16S391J
R 615	(B,55,61)	RS1/16S123J	R 685	(B,91,77)	RS1/16S391J
R 616	(B,55,71)	RS1/16S473J	R 686	(B,91,76)	RS1/16S3302D
R 617	(B,43,67)	RS1/16SS473J	R 687	(B,84,76)	RS1/16S3302D
R 618	(B,45,62)	RS1/16SS223J	R 688	(B,84,74)	RS1/16S391J
R 619	(B,55,63)	RS1/16S223J	R 689	(B,91,75)	RS1/16S391J
R 620	(A,62,57)	RS1/16S222J	R 690	(B,91,73)	RS1/16S3302D
R 621	(A,62,58)	RS1/16S222J	R 691	(B,92,71)	RS1/16S224J
R 622	(A,65,66)	RS1/16S222J	R 692	(B,87,68)	RS1/16S8201D
R 623	(A,62,61)	RS1/16S222J	R 693	(B,85,68)	RS1/16S224J
R 624	(A,65,72)	RS1/16S222J	R 694	(B,82,68)	RS1/16S102J
R 625	(A,62,60)	RS1/16S203J	R 695	(B,90,71)	RS1/16S102J
R 626	(A,62,74)	RS1/16S203J	R 696	(B,58,106)	RS1/16S680J
R 627	(A,66,64)	RS1/16S222J	R 697	(B,56,106)	RS1/16S680J
R 628	(A,67,71)	RS1/16S183J	R 698	(B,63,106)	RS1/16S680J
R 629	(A,65,61)	RS1/16S183J	R 699	(B,60,106)	RS1/16S680J
R 630	(A,58,65)	RS1/16S222J	R 703	(B,109,90)	RS1/16S223J
R 631	(A,58,68)	RS1/16S222J	R 704	(B,110,87)	RS1/16S223J
R 632	(A,56,63)	RS1/16S222J	R 705	(B,110,81)	RS1/16S223J
R 633	(A,53,60)	RS1/16S222J	R 706	(B,113,87)	RS1/16S103J
R 634	(A,51,61)	RS1/16S203J	R 707	(B,111,87)	RS1/16S103J
R 635	(A,56,71)	RS1/16S222J	R 708	(B,111,81)	RS1/16S223J
R 636	(A,53,73)	RS1/16S222J	R 710	(B,113,79)	RS1/16S223J
R 637	(A,56,74)	RS1/16S183J	R 712	(B,120,139)	RS1/16S223J
R 638	(A,56,60)	RS1/16S183J	R 713	(B,116,138)	RS1/16S223J
R 639	(A,51,72)	RS1/16S203J	R 714	(B,115,135)	RS1/16S473J
R 646	(A,54,91)	RS1/16S2201D	R 715	(B,114,135)	RS1/16S103J
R 647	(A,55,88)	RS1/16S3301D	R 716	(B,112,138)	RS1/16S222J
R 648	(A,53,89)	RS1/16S3301D	R 717	(B,112,135)	RS1/16S222J
R 649	(A,51,91)	RS1/16S2201D	R 718	(B,72,136)	RS1/16S222J
R 650	(A,53,91)	RS1/16S2201D	R 719	(B,70,139)	RS1/16S103J
R 651	(A,52,87)	RS1/16S3301D	R 720	(B,72,138)	RS1/16S272J
R 652	(A,50,83)	RS1/16S1202D	R 721	(B,64,139)	RS1/16S223J
R 653	(A,50,86)	RS1/16S6801D	R 722	(B,61,33)	RS1/16S223J
R 654	(A,57,85)	RS1/16S1202D	R 723	(B,62,33)	RS1/16S223J
R 655	(A,48,86)	RS1/16S6801D	R 724	(B,60,26)	RS1/16S222J
R 656	(A,59,85)	RS1/16S6801D	R 725	(B,62,30)	RS1/16S223J
R 657	(A,58,91)	RS1/16S6801D	R 726	(B,61,30)	RS1/16S223J
R 658	(A,51,78)	RS1/16S1202D	R 727	(B,67,134)	RS1/10S472J
R 659	(A,57,88)	RS1/16S1202D	R 728	(B,59,28)	RS1/16S222J
R 660	(A,80,74)	RS1/16S222J	R 729	(B,59,30)	RS1/16S222J
R 661	(A,63,111)	RS1/16S680J	R 730	(B,57,27)	RS1/16S103J
R 662	(B,52,88)	RS1/16S123J	R 731	(B,65,134)	RS1/10S562J
R 663	(B,63,108)	RS1/16S680J	R 732	(B,66,132)	RS1/16SS473J
R 664	(B,65,91)	RS1/16S123J	R 733	(A,101,78)	RS1/16S182J
R 665	(B,55,92)	RS1/16S153J	R 734	(A,111,81)	RS1/16S223J
R 666	(B,65,94)	RS1/16S153J	R 735	(A,111,80)	RS1/16S224J
R 667	(B,54,96)	RS1/16S153J	R 736	(B,99,81)	RS1/16S225J
R 668	(B,65,97)	RS1/16S153J	R 737	(A,105,84)	RS1/16S220J
R 669	(B,55,99)	RS1/16S153J	R 738	(A,101,83)	RS1/16S472J

Circuit Symbol and No.			Part No.
R 739	(B,83,56)		RS1/16S220J
R 740	(B,85,56)		RS1/16S101J
R 741	(B,78,55)		RS1/16S225J
R 742	(A,82,18)		RS1/16S473J
R 743	(A,95,62)		RS1/16S222J
R 744	(B,75,55)		RS1/16S103J
R 745	(B,75,60)		RS1/16SS103J
R 746	(B,76,55)		RS1/16S103J
R 747	(B,76,61)		RS1/16SS103J
R 748	(B,69,63)		RS1/16S103J
R 749	(B,69,57)		RS1/16S103J
R 750	(B,70,60)		RS1/16SS103J
R 751	(B,71,58)		RS1/16S103J
R 752	(B,73,58)		RS1/16S472J
R 754	(B,108,85)		RS1/16S223J
R 755	(B,136,25)		RS1/16S471J
R 812	(A,155,52)		RS1/16SS4303D
R 813	(A,155,51)		RS1/16SS6202D
R 814	(B,153,61)		RS1/16SS682J
R 815	(B,154,61)		RS1/16SS103J
R 816	(B,152,63)		RS1/16SS5602D
R 817	(B,152,61)		RS1/16SS2202D
R 818	(B,151,61)		RS1/16SS1202D
R 819	(A,140,54)		RS1/16SS2R2J
R 820	(A,137,54)		RS1/16SS2R2J
R 821	(B,141,55)		RS1/16SS101J
R 822	(A,156,58)		RS1/16SS223J
R 823	(B,138,49)	0.047 ohm	CCN1167
R 824	(B,138,51)	0.047 ohm	CCN1167
R 825	(B,145,49)		RS1/16SS100J
R 826	(B,142,49)	0.047 ohm	CCN1167
R 827	(B,142,51)	0.047 ohm	CCN1167
R 828	(B,146,54)		RS1/16SS101J
R 829	(A,150,54)		RS1/16SS2R2J
R 830	(A,147,54)		RS1/16SS2R2J
R 832	(B,151,45)		RS1/16SS3302D
R 833	(B,151,47)		RS1/16SS1502D
R 834	(B,153,47)		RS1/16SS1202D
R 835	(B,152,47)		RS1/16SS621J
R 836	(B,154,47)		RS1/16SS332J
R 861	(A,137,58)		RS1/16SS271J
R 862	(B,133,58)		RS1/16SS1002D
R 863	(A,134,61)		RS1/16SS102J
R 864	(A,136,56)		RS1/16SS5602D
R 865	(A,136,58)		RS1/16SS6801D
R 866	(A,156,60)		RS1/16SS1003D
R 867	(A,134,56)		RS1/16SS101J
R 868	(A,156,61)		RS1/16SS1002D
R 869	(A,131,63)		RS1/16SS203J
R 870	(A,126,61)		RS1/16SS393J
R 871	(A,125,59)		RS1/16SS393J
R 872	(A,125,57)		RS1/16SS471J
R 873	(A,125,55)		RS1/16SS152J
R 874	(A,125,48)		RS1/16SS100J
R 875	(A,129,52)		RS1/16SS100J
R 876	(A,129,50)		RS1/16SS103J
R 877	(A,133,61)		RS1/16SS1003D
R 878	(A,131,62)		RS1/16SS1003D
R 901	(B,111,20)		RS1/16S1002D
R 902	(B,111,21)		RS1/16S8200D

Circuit Symbol and No.		Part No.
R 903	(B,111,23)	RS1/16S1001D
R 904	(A,115,22)	RS1/16S102J
R 906	(A,104,52)	RS1/16SS332J
R 907	(B,117,45)	RS1/16S102J
R 913	(B,148,20)	RS1/10S471J
R 914	(B,145,20)	RS1/16S100J
R 915	(B,147,16)	RS1/16S221J
R 916	(A,140,16)	RS1/16S271J
R 917	(B,150,14)	RS1/16S221J
R 918	(A,142,17)	RS1/16S392J
R 919	(B,150,20)	RS1/16S102J
R 920	(A,101,52)	RS1/16S1002D
R 921	(A,101,51)	RS1/16S1502D
R 922	(A,31,14)	RS1/16S223J
R 923	(A,32,9)	RS1/16S471J
R 924	(B,29,7)	RS1/16S223J
R 925	(A,30,13)	RS1/16S331J
R 926	(A,27,10)	RS1/16S471J
R 927	(A,29,11)	RS1/16S221J
R 928	(B,34,6)	RS1/16S223J
R 929	(A,36,13)	RS1/16S472J
R 930	(A,35,13)	RS1/16S152J
R 931	(A,33,9)	RS1/16S470J
R 932	(B,95,135)	RS1/16S223J
R 933	(B,95,138)	RS1/16S102J
R 934	(B,89,136)	RS1/16S223J
R 935	(B,90,133)	RS1/16S471J
R 936	(B,92,133)	RS1/16S121J
R 937	(B,65,16)	RS1/8S152J
R 938	(A,47,108)	RS1/16S222J
R 939	(A,48,110)	RS1/16S473J
R 940	(A,54,106)	RS1/16S223J
R 941	(A,56,114)	RS1/16S223J
R 942	(A,54,107)	RS1/16S152J
R 943	(A,51,110)	RS1/16S333J
R 944	(A,54,110)	RS1/16S473J
R 945	(A,85,65)	RS1/16S103J
R 946	(A,82,64)	RS1/16S471J
R 947	(A,86,71)	RS1/16S223J
R 948	(A,85,68)	RS1/16S151J
R 949	(A,82,69)	RS1/16S471J
R 950	(A,81,67)	RS1/16S221J
R 951	(A,158,84)	RS1/8S6R2J
R 952	(A,155,83)	RS1/16S473J
R 953	(B,155,81)	RS1/16S222J
R 954	(B,163,89)	RS1/16S331J
R 955	(B,160,87)	RS1/16S104J
R 956	(B,161,85)	RS1/16S473J
R 957	(B,163,86)	RS1/16S183J
R 958	(B,158,88)	RS1/16S103J
R 959	(B,158,86)	RS1/16S333J
R 960	(B,166,81)	RS1/16S302J
R 962	(B,163,82)	RS1/16S302J
R 963	(B,157,79)	RS1/16S102J
R 964	(B,160,79)	RS1/16S103J
R 965	(B,91,138)	RS1/16S331J
R 966	(B,40,16)	RS1/16S223J
R 967	(B,40,21)	RS1/16S472J
R 968	(B,44,19)	RS1/16S220J
R 969	(B,47,18)	RS1/16S222J

Circuit Symbol and No.		Part No.
R 970	(B,68,36)	RS1/16SS473J
R 971	(B,70,29)	RS1/10S392J
R 972	(B,68,28)	RS1/16SS511J
R 973	(B,66,22)	RS1/16SS103J
R 974	(B,66,24)	RS1/16SS103J

CAPACITORS

C 101	(A,40,113)	CCSRCH101J50
C 102	(A,40,114)	CKSRYB103K50
C 106	(A,40,121)	CKSQYB103K50
C 107	(A,21,103)	CKSRYB103K50
C 118	(A,45,29)	CKSRYB103K50
C 120	(A,42,32)	CEVQW101M10
C 121	(A,33,27)	CKSRYB103K50
C 122	(A,39,41)	CEAT102M10(P45)
C 123	(A,35,72)	CEVQW101M10
C 124	(B,26,73)	CKSRYB103K50
C 126	(B,26,49)	CKSRYB103K50
C 127	(A,35,50)	CEVQW101M10
C 129	(B,26,52)	CKSRYB103K50
C 130	(B,42,29)	CKSRYB222K50
C 131	(B,42,32)	CKSRYB222K50
C 132	(A,48,29)	CKSRYB105K10
C 133	(A,48,32)	CKSRYB105K10
C 136	(B,27,103)	CCSQCH220J50
C 137	(B,27,101)	CCSQCH220J50
C 203	(A,58,19)	CKSRYB334K10
C 204	(A,64,11)	CCSRCH220J50
C 205	(A,61,12)	CKSRYB334K10
C 206	(A,62,18)	CCSRCH220J50
C 207	(A,108,23)	CCSRCH101J50
C 208	(B,103,17)	CKSQYB225K10
C 209	(B,102,28)	CCSRCH101J50
C 210	(B,103,15)	CKSQYB225K10
C 211	(A,105,24)	CEVQW220M16
C 212	(A,101,24)	CKSRYB104K50
C 213	(B,103,27)	CKSQYB225K10
C 214	(B,103,25)	CKSRYB104K50
C 215	(B,100,25)	CKSRYB224K16
C 216	(A,95,24)	CKSRYB102K50
C 217	(A,129,22)	CEVW4R7M35
C 218	(A,134,22)	CEVW4R7M35
C 219	(B,120,21)	CCSRCH101J50
C 220	(A,123,23)	CEVQW220M16
C 221	(A,122,15)	CKSRYB104K50
C 222	(A,123,19)	CKSQYB225K10
C 223	(A,122,17)	CKSRYB104K50
C 224	(A,122,11)	CKSRYB103K50
C 225	(A,122,8)	CKSRYB102K50
C 226	(B,130,9)	CCSRCH100D50
C 227	(B,129,9)	CCSRCH100D50
C 228	(B,102,6)	CCSRCH151J50
C 229	(B,102,7)	CCSRCH151J50
C 230	(A,79,13)	CCSRCH151J50
C 231	(B,87,12)	CCSRCH151J50
C 301	(B,77,134)	CKSQYB223K50
C 302	(B,108,120)	CKSQYB473K50
C 303	(A,64,118)	CKSQYB222K50
C 304	(B,81,131)	CCSQCH101J50
C 305	(B,83,131)	CKSQYB222K50
C 306	(B,79,131)	CCSQCH101J50
C 307	(A,66,115)	CKSQYB223K50
C 308	(B,77,131)	CKSQYB223K50
C 309	(B,107,122)	CKSQYB473K50
C 310	(A,95,104) 1 000 uF/16 V	CCH1681(P45)
C 311	(B,76,131)	CKSQYB223K50
C 312	(B,76,134)	CKSQYB223K50
C 313	(B,57,86)	CKSRYB104K50
C 314	(B,59,86) 4.7 uF	CCG1222
C 315	(A,66,118)	CKSQYB223K50
C 401	(B,50,13)	CCSRCH101J50
C 402	(B,49,13)	CCSRCH101J50
C 403	(B,55,13)	CCSRCH101J50
C 404	(B,47,13)	CCSRCH101J50
C 405	(B,54,13)	CKSRYB102K50
C 406	(B,46,13)	CCSRCH101J50
C 407	(B,52,13)	CCSRCH101J50
C 408	(B,44,13)	CCSRCH101J50
C 409	(B,43,13)	CKSRYB102K50
C 410	(B,42,13)	CKSRYB102K50
C 411	(B,40,13)	CKSRYB102K50
C 412	(B,39,13)	CKSRYB102K50
C 413	(A,44,15)	CKSRYB104K50
C 414	(A,50,20)	CKSRYB104K50
C 415	(A,47,22)	CKSRYB104K50
C 416	(B,52,136)	CKSRYB102K50
C 417	(B,57,54)	CKSRYB224K16
C 419	(B,65,64)	CKSRYB103K50
C 423	(B,91,40)	CKSRYB104K50
C 425	(B,82,32)	CKSRYB105K10
C 426	(B,80,32)	CKSRYB102K50
C 427	(B,68,32)	CKSRYB472K50
C 428	(B,68,35)	CKSRYB472K50
C 429	(A,92,54)	CKSRYB102K50
C 430	(A,91,54)	CKSRYB105K10
C 431	(B,75,50)	CKSRYB103K50
C 501	(B,87,30)	CKSRYB103K50
C 600	(B,52,112)	CCSQCH471J50
C 601	(B,52,108)	CCSQCH471J50
C 602	(B,52,110)	CCSQCH471J50
C 603	(B,52,106)	CCSQCH471J50
C 604	(B,48,75)	CKSRYB105K10
C 605	(B,45,75)	CKSRYB105K10
C 606	(B,52,75)	CKSRYB105K10
C 607	(B,55,75)	CKSRYB105K10
C 608	(B,48,60)	CKSRYB105K10
C 609	(B,53,60)	CKSRYB105K10
C 610	(B,50,71)	CCSRCH220J50
C 611	(B,43,69)	CCSSCH220J50
C 612	(B,54,71)	CCSRCH220J50
C 613	(B,43,66)	CCSSCH220J50
C 614	(B,45,63)	CKSSYB102K50
C 615	(B,56,63)	CKSRYB102K50
C 616	(A,64,57)	CKSRYB471K50
C 617	(A,64,58)	CKSRYB471K50
C 618	(A,64,63)	CKSRYB152K50
C 619	(A,65,69)	CKSRYB152K50
C 620	(A,67,68)	CKSQYB225K10
C 621	(A,67,61)	CKSQYB225K10

Circuit Symbol and No.		Part No.
C 622	(A,62,72)	CKSRYB221K50
C 623	(A,62,63)	CKSRYB221K50
C 624	(A,57,65)	CKSRYB471K50
C 625	(A,57,68)	CKSRYB471K50
C 626	(A,58,62)	CKSQYB225K10
C 627	(A,56,62)	CKSRYB152K50
C 628	(A,56,72)	CKSRYB152K50
C 629	(A,59,73)	CKSQYB225K10
C 630	(A,53,72)	CKSRYB221K50
C 631	(A,53,62)	CKSRYB221K50
C 637	(A,52,85)	CKSQYB225K10
C 638	(A,50,90)	CKSQYB225K10
C 639	(A,54,85)	CKSQYB225K10
C 640	(A,56,92)	CKSQYB225K10
C 641	(A,50,81)	CCSRCH101J50
C 642	(A,56,85)	CCSRCH101J50
C 643	(A,51,80)	CCSRCH101J50
C 644	(A,59,88)	CCSRCH101J50
C 645	(B,73,75)	CKSRYB103K50
C 646	(A,75,74)	CEVQW470M16
C 647	(A,81,74)	CKSRYB104K50
C 648	(A,82,79)	CEVQW470M16
C 649	(B,54,92)	CCSRCH220J50
C 650	(B,65,92)	CCSRCH220J50
C 651	(B,54,99)	CCSRCH220J50
C 652	(B,64,99)	CCSRCH220J50
C 653	(B,58,103)	CKSQYB475K10
C 654	(B,55,103)	CKSQYB475K10
C 655	(B,65,103)	CKSQYB475K10
C 656	(B,62,103)	CKSQYB475K10
C 657	(A,63,114)	CKSQYB475K10
C 658	(B,65,111)	CKSQYB475K10
C 659	(B,57,111)	CKSQYB475K10
C 660	(A,57,113)	CKSQYB475K10
C 661	(B,63,111)	CKSQYB472K50
C 662	(B,59,112)	CKSQYB472K50
C 663	(B,93,71)	CKSRYB103K50
C 664	(B,84,68)	CKSRYB104K50
C 665	(A,61,113)	CKSQYB472K50
C 666	(A,59,113)	CKSQYB472K50
C 704	(B,117,135)	CKSRYB474K16
C 705	(B,69,135)	CKSRYB223K50
C 706	(B,72,135)	CKSRYB223K50
C 707	(B,72,139)	CKSRYB102K50
C 708	(B,59,35)	CKSRYB105K10
C 709	(B,59,34)	CKSRYB105K10
C 710	(B,59,31)	CKSRYB105K10
C 711	(B,59,33)	CKSRYB105K10
C 712	(B,64,134)	CCSRCH102J50
C 713	(B,62,137)	CCSRCH102J50
C 714	(A,95,90) 1 000 uF/16 V	CCH1681(P45)
C 715	(A,107,77)	CKSRYB473K50
C 716	(A,105,76)	CKSRYB473K50
C 717	(B,107,74) 4.7 uF	CCG1111
C 718	(A,104,84)	CCSRCH221J50
C 719	(B,100,81)	CKSRYB104K50
C 720	(B,106,79) 4.7 uF	CCG1111
C 721	(A,104,90)	CKSRYB105K10
C 722	(A,104,93) 47 uF	CCG1233
C 723	(B,80,55)	CKSRYB104K50

Circuit Symbol and No.		Part No.
C 724	(B,79,55)	CKSRYB104K50
C 725	(B,86,56)	CKSRYB105K10
C 726	(B,88,57) 22 uF	CCG1254
C 727	(A,82,15)	CKSRYB472K50
C 728	(B,69,58)	CKSRYB102K50
C 729	(B,70,63)	CKSRYB103K50
C 730	(B,73,57)	CKSRYB103K50
C 738	(A,82,13)	CCSRCH101J50
C 816	(A,114,63) 3 300 uF/16 V	CCH1486(P45)
C 817	(B,134,61) 4.7 uF	CCG1222
C 818	(B,130,61) 4.7 uF	CCG1222
C 819	(B,131,54)	CKSSYB103K25
C 820	(B,131,52)	CKSSYB103K25
C 821	(A,155,54)	CKSSYB104K16
C 822	(B,139,39) 22 uF	CCG1254
C 824	(B,141,39) 22 uF	CCG1254
C 825	(B,143,38)	CKSSYB104K16
C 826	(B,154,64)	CKSSYB471K50
C 827	(B,155,61)	CKSSYB222K50
C 828	(B,154,60)	CCSSCH101J50
C 829	(A,152,60)	CKSRYB105K10
C 830	(B,150,62)	CKSRYB105K10
C 831	(B,148,57)	CKSSYB104K16
C 832	(B,157,60)	CKSRYB683K50
C 833	(B,143,55)	CKSSYB102K50
C 834	(A,149,56)	CKSRYB224K16
C 835	(A,150,58)	CKSRYB224K16
C 836	(B,144,56)	CKSSYB102K50
C 839	(B,148,52)	CKSSYB104K16
C 840	(B,156,50)	CKSRYB683K50
C 841	(A,155,50)	CKSRYB224K16
C 842	(A,155,48)	CKSRYB224K16
C 843	(B,149,47)	CKSRYB105K10
C 845	(B,147,37) 22 uF	CCG1254
C 846	(B,152,45)	CKSSYB681K50
C 847	(B,154,49)	CKSSYB102K50
C 848	(B,149,41)	CKSSYB104K16
C 849	(B,155,47)	CKSSYB103K16
C 850	(A,110,99) 10 uF	CCG1236
C 851	(A,106,99) 10 uF	CCG1236
C 852	(A,112,99)	CKSSYB104K16
C 853	(A,108,99)	CKSSYB104K16
C 854	(B,114,40)	CKSRYB105K10
C 855	(B,147,39) 22 uF	CCG1254
C 861	(B,141,45) 10 uF	CCG1236
C 862	(B,137,45) 10 uF	CCG1236
C 863	(B,139,45) 10 uF	CCG1236
C 864	(B,133,45) 10 uF	CCG1236
C 865	(B,135,45) 10 uF	CCG1236
C 866	(A,137,56)	CCSSCH101J50
C 867	(A,131,61)	CKSSYB104K16
C 868	(A,131,54)	CKSSYB104K16
C 869	(A,129,54)	CKSSYB104K16
C 870	(A,133,63)	CKSSYB472K25
C 871	(A,133,62)	CKSSYB471K50
C 872	(A,128,63)	CKSSYB104K16
C 873	(A,125,58)	CCSSCH101J50
C 874	(A,125,61)	CKSSYB103K16
C 875	(A,125,56)	CCSSCH101J50
C 876	(B,133,38) 22 uF	CCG1254

Circuit Symbol and No.		Part No.
C 877	(B,131,38) 22 uF	CCG1254
C 878	(B,135,38)	CKSSYB104K16
C 879	(A,102,99) 10 uF	CCG1236
C 880	(A,104,99)	CKSSYB104K16
C 881	(A,115,53)	CEVW101M16
C 882	(A,115,45)	CEVW101M16
C 901	(B,103,9)	CCSRCH101J50
C 902	(B,105,9)	CKSQYB225K10
C 903	(B,115,20)	CKSRYB474K16
C 905	(A,112,20)	CKSRYB102K50
C 906	(A,112,22)	CSZFSR330M10
C 907	(B,109,35)	CCSRCH101J50
C 908	(B,114,42)	CKSRYB474K16
C 909	(B,108,37)	CKSQYB225K10
C 910	(B,110,40)	CKSRYB102K50
C 911	(A,114,40)	CSZSC101M10
C 922	(B,150,16)	CKSRYB105K10
C 923	(A,140,18)	CKSRYB103K50
C 924	(A,158,19)	CEVQW101M10
C 925	(A,137,18)	CKSRYB105K10
C 926	(B,97,50)	CKSYB335K16
C 927	(B,102,47)	CKSRYB105K10
C 928	(B,102,48)	CKSRYB105K10
C 929	(A,31,12)	CKSRYB102K50
C 930	(A,40,22) 470 uF/10 V	CCH1677
C 931	(B,31,14)	CKSRYB474K16
C 932	(B,32,16)	CKSRYB102K50
C 933	(A,38,13)	CKSRYB104K50
C 934	(B,36,14)	CKSRYB104K50
C 935	(A,39,14) 4.7 uF	CCG1222
C 936	(B,95,137)	CKSRYB102K50
C 937	(B,81,135)	CKSYB475K16
C 938	(B,79,135)	CKSRYB104K50
C 939	(A,67,11)	CCSRCH101J50
C 940	(A,66,8)	CEVQW101M10
C 941	(A,54,109)	CKSRYB103K50
C 942	(A,46,110)	CKSQYB103K50
C 943	(A,83,64)	CKSRYB102K50
C 944	(A,76,65) 470 uF/10 V	CCH1677
C 945	(A,93,69)	CKSRYB474K16
C 946	(B,163,88)	CKSRYB102K50
C 947	(B,161,82)	CKSRYB104K50
C 948	(B,164,84)	CKSRYB104K50
C 949	(A,165,78) 4.7 uF	CCG1222
C 950	(A,163,78) 4.7 uF	CCG1222
C 952	(A,67,82) 2 200 uF/16 V	CCH1676(P45)
C 953	(B,101,52)	CKSQYB225K10
C 954	(B,104,52)	CKSQYB225K10

B

Unit Number : CWN3773
Unit Name : Panel Control Unit

MISCELLANEOUS

IC 2802	(A,19,53) IC	HA12241FP
IC 2841	(A,56,28) IC	S-80940CNNB-G9A
IC 2842	(A,44,55) IC	S-812C56AUA-C3K
IC 2871	(A,30,32) IC	PEG420B8
Q 2801	(A,15,74) Transistor	UMD2N
Q 2802	(A,19,77) Transistor	2SC4081
Q 2803	(A,26,79) Chip Transistor	2SA1576A
Q 2804	(A,23,76) Chip Transistor	DTC114EUA
Q 2805	(A,9,76) Transistor	2SC4081
Q 2806	(A,19,68) Transistor	2SC4081
Q 2807	(A,8,79) Transistor	UMD2N
Q 2808	(A,11,70) Chip Transistor	DTA114EUA
Q 2809	(A,8,68) Transistor	2SC4081
Q 2810	(A,21,60) Chip Transistor	UMB11N
Q 2841	(A,68,55) Transistor	2SB1260
Q 2842	(A,71,51) Transistor	2SC4081
Q 2843	(A,48,73) Transistor	2SB1260
Q 2844	(A,44,72) Transistor	2SC4081
Q 2845	(A,59,29) Transistor	2SA1162
Q 2846	(A,53,33) Transistor	UMD12N
Q 2847	(A,45,65) Transistor	2SD1760F5
Q 2848	(A,35,63) Transistor	2SC4154-11
Q 2849	(A,39,66) Transistor	2SB1260
Q 2855	(A,18,60) Transistor	UMD9N
Q 2856	(A,16,71) Transistor	UMD2N
Q 2857	(A,62,27) Chip Transistor	DTC114EUA
Q 2864	(A,8,91) Transistor	2SC4081
D 2801	(A,66,84) Diode	ST70-27F
D 2802	(A,23,80) Diode	HZU6R2(B3)
D 2803	(A,14,81) Diode	HZU6R2(B3)
D 2804	(A,23,71) Diode	HZU6R2(B1)
D 2806	(A,23,59) Diode	1SS352
D 2807	(A,25,60) Diode	UDZS8R2(B)
D 2809	(A,8,52) Diode	UDZS18(B)
D 2810	(A,8,49) Diode	UDZS18(B)
D 2841	(A,65,53) Diode	1SS352
D 2842	(A,39,74) Diode	1SS352
D 2843	(A,58,74) Diode	1SR154-400
D 2845	(A,38,55) Diode	UDZS9R1(B)
D 2846	(A,51,36) Diode	1SS352
D 2847	(A,54,55) Diode	UDZS16(B)
D 2848	(A,62,71) Diode	1SR154-400
D 2850	(A,17,37) Diode	1SS352
D 2851	(A,69,70) Diode	1SR154-400
D 2854	(A,8,84) Diode	UDZS5R1(B)
D 2855	(A,21,73) Diode	UDZS5R1(B)
L 2801	(A,79,82) Inductor	CTH1262
L 2802	(A,18,47) Inductor	CTF1473
L 2871	(A,15,43) Inductor	CTF1473
L 2874	(A,18,27) Inductor	CTF1473
L 2876	(A,37,73) Inductor	CTF1629
L 2877	(A,62,57) Inductor	CTF1629
L 2878	(A,68,65) Inductor	CTF1629
X 2872	(A,30,18) Radiator 10.0 MHz	CSS1577

RESISTORS

R 2801	(A,17,78)	RS1/16SS222J
R 2802	(A,17,81)	RS1/16SS223J
R 2803	(A,20,79)	RS1/16SS103J
R 2804	(A,21,78)	RS1/16SS472J
R 2805	(A,25,75)	RS1/16SS223J
R 2806	(A,26,77)	RS1/16SS223J
R 2807	(A,14,77)	RS1/16SS222J
R 2808	(A,9,82)	RS1/16SS822J
R 2809	(A,12,79)	RS1/16SS103J

Circuit Symbol and No.		Part No.
R 2810	(A,10,82)	RS1/16SS104J
R 2811	(A,12,74)	RS1/16SS101J
R 2813	(A,20,70)	RS1/16SS822J
R 2814	(A,22,69)	RS1/16SS103J
R 2815	(A,23,67)	RS1/16SS222J
R 2816	(A,14,71)	RS1/16SS101J
R 2818	(A,22,71)	RS1/16SS104J
R 2825	(A,10,67)	RS1/16SS561J
R 2826	(A,10,64)	RS1/10S392J
R 2827	(A,14,64)	RS1/10S101J
R 2828	(A,9,71)	RS1/16SS473J
R 2829	(A,10,63)	RS1/16SS223J
R 2830	(A,12,62)	RS1/16SS223J
R 2831	(A,13,62)	RS1/16SS222J
R 2832	(A,25,64)	RS1/16SS102J
R 2833	(A,9,74)	RS1/16SS101J
R 2838	(A,26,54)	RS1/16SS472J
R 2839	(A,22,64)	RS1/16SS222J
R 2841	(A,66,52)	RS1/16SS330J
R 2842	(A,69,48)	RS1/16SS471J
R 2843	(A,72,55)	RS1/16SS223J
R 2844	(A,67,52)	RS1/16SS472J
R 2845	(A,40,73)	RS1/16SS330J
R 2846	(A,41,70)	RS1/16SS471J
R 2847	(A,52,73)	RS1/16SS223J
R 2848	(A,38,70)	RS1/16SS472J
R 2849	(A,59,32)	RS1/16SS223J
R 2850	(A,62,30)	RS1/16SS103J
R 2851	(A,52,30)	RS1/16SS473J
R 2852	(A,52,28)	RS1/16SS471J
R 2853	(A,53,38)	RS1/16SS222J
R 2854	(A,38,59)	RS1/16S472J
R 2855	(A,40,57)	RS1/16SS225J
R 2856	(A,11,91)	RS1/16SS102J
R 2858	(A,39,62)	RS1/16SS184J
R 2859	(A,13,88)	RS1/10S103J
R 2860	(A,11,88)	RS1/10S103J
R 2861	(A,50,55)	RS1/16SS182J
R 2862	(A,25,50)	RS1/16SS472J
R 2863	(A,12,54)	RS1/4SA101J
R 2864	(A,12,48)	RS1/4SA101J
R 2870	(A,26,52)	RS1/16SS101J
R 2873	(A,18,32)	RS1/16SS473J
R 2875	(A,27,16)	RS1/16SS103J
R 2878	(A,28,21)	RS1/16SS102J
R 2881	(A,33,16)	RS1/16SS473J
R 2883	(A,29,21)	RS1/16SS681J
R 2888	(A,34,22)	RS1/16SS102J
R 2894	(A,37,21)	RS1/16SS102J
R 2897	(A,44,38)	RS1/16SS102J
R 2898	(A,42,39)	RS1/16SS102J
R 2900	(A,41,41)	RS1/16SS101J
R 2901	(A,42,32)	RS1/16SS102J
R 2902	(A,16,35)	RS1/16SS221J
R 2905	(A,38,41)	RS1/16SS102J
R 2906	(A,39,41)	RS1/16SS102J
R 2907	(A,45,38)	RS1/16SS102J
R 2908	(A,18,35)	RS1/16SS102J
R 2909	(A,39,24)	RS1/16SS102J
R 2910	(A,43,38)	RS1/16SS102J

Circuit Symbol and No.		Part No.
R 2911	(A,37,41)	RS1/16SS102J
R 2912	(A,40,41)	RS1/16SS102J
R 2913	(A,46,38)	RS1/16SS101J
R 2915	(A,40,28)	RS1/16SS101J
R 2916	(A,40,29)	RS1/16SS101J
R 2917	(A,19,22)	RS1/16SS682J
R 2918	(A,19,23)	RS1/16SS682J
R 2919	(A,40,30)	RS1/16SS101J
R 2920	(A,13,34)	RS1/16SS103J
R 2923	(A,35,21)	RS1/16SS330J
R 2925	(A,19,21)	RS1/16SS682J
R 2926	(A,27,43)	RS1/16SS101J
R 2927	(A,28,43)	RS1/16SS101J
R 2928	(A,29,43)	RS1/16SS101J
R 2929	(A,30,43)	RS1/16SS101J
R 2930	(A,40,31)	RS1/16SS101J
R 2931	(A,34,43)	RS1/16SS101J
R 2932	(A,35,43)	RS1/16SS101J
R 2933	(A,36,43)	RS1/16SS101J
R 2945	(A,21,44)	RS1/16SS101J
R 2947	(A,20,39)	RS1/16SS473J
R 2951	(A,19,18)	RS1/16SS103J
R 2952	(A,19,19)	RS1/16SS103J
R 2960	(A,20,40)	RS1/16SS473J
R 2962	(A,42,26)	RS1/16SS473J
R 2963	(A,42,24)	RS1/16SS473J
R 2964	(A,42,23)	RS1/16SS473J
R 2965	(A,42,21)	RS1/16SS473J
R 2966	(A,42,20)	RS1/16SS473J
R 2971	(A,23,74)	RS1/16SS392J
R 2972	(A,12,83)	RS1/16SS392J
R 2996	(A,18,64)	RS1/16SS223J
R 2997	(A,20,64)	RS1/16SS223J
R 2998	(A,21,65)	RS1/16SS222J
R 2999	(A,19,20)	RS1/16SS101J
R 3000	(A,33,14)	RS1/16SS473J

CAPACITORS

C 2801	(A,88,85)	CEVW330M25
C 2806	(A,20,88)	CKSRYB223K50
C 2807	(A,22,90)	CKSRYB223K50
C 2808	(A,15,82)	CKSRYB223K50
C 2809	(A,22,67)	CKSSYB102K50
C 2811	(A,13,67)	CKSSYB103K25
C 2812	(A,9,61)	CKSRYB105K10
C 2813	(A,10,61)	CKSRYB105K10
C 2814	(A,27,63)	CKSRYB223K50
C 2815	(A,18,49)	CKSSYB104K10
C 2818	(A,23,88)	CKSRYB223K50
C 2819	(A,23,91)	CKSRYB223K50
C 2823	(A,8,55)	CCSQCH181J50
C 2824	(A,8,46)	CCSQCH181J50
C 2827	(A,25,88)	CKSRYB223K50
C 2828	(A,25,91)	CKSRYB223K50
C 2829	(A,32,89)	CKSRYB223K50
C 2830	(A,32,91)	CKSRYB223K50
C 2831	(A,29,88)	CKSRYB223K50
C 2832	(A,29,91)	CKSRYB223K50
C 2833	(A,30,88)	CKSRYB223K50

Circuit Symbol and No.		Part No.
C 2834	(A,30,91)	CKSRYB223K50
C 2835	(A,27,88)	CKSRYB223K50
C 2836	(A,27,91)	CKSRYB223K50
C 2837	(A,34,90)	CKSRYB223K50
C 2838	(A,34,93)	CKSRYB223K50
C 2843	(A,69,50)	CKSSYB102K50
C 2845	(A,36,75)	CKSRYB104K16
C 2846	(A,39,70)	CKSSYB104K10
C 2847	(A,53,73)	CKSRYB473K50
C 2848	(A,51,70)	CKSRYB473K50
C 2850	(A,59,25)	CKSRYB103K16
C 2851	(A,58,26)	CKSSYB472K25
C 2852	(A,59,37)	CEVW101M16
C 2853	(A,56,41)	CKSRYB105K10
C 2854	(A,36,57)	CKSYB475K16
C 2855	(A,39,57)	CKSSYB104K10
C 2856	(A,52,53)	CKSYB225K16
C 2857	(A,50,57)	CKSRYB473K50
C 2858	(A,54,57)	CKSRYB473K50
C 2859	(A,54,63)	CEVW221M16
C 2860	(A,63,63)	CEVW221M16
C 2871	(A,9,39)	CEVW470M16
C 2872	(A,16,40)	CKSSYB102K16
C 2873	(A,17,40)	CKSRYB105K10
C 2878	(A,33,15)	CKSSYB104K10
C 2879	(A,40,18)	CCSSCH101J50
C 2888	(A,40,24)	CCSSCH101J50
C 2891	(A,27,60)	CKSRYB223K50
C 2892	(A,25,71)	CKSRYB223K50
C 2893	(A,25,68)	CKSRYB223K50
C 2896	(A,12,76)	CKSSYB102K50
C 2898	(A,15,78)	CKSRYB223K50
C 2899	(A,69,65)	CKSRYB473K50
C 2900	(A,69,59)	CKSRYB104K16
C 2901	(A,69,61)	CKSRYB473K50
C 2903	(A,18,65)	CKSRYB105K10
C 2904	(A,19,65)	CKSRYB105K10

Connector Unit
Consists of
Connector PCB(A)
Connector PCB(B)

E F

Unit Number : CWN2684
Unit Name : Connector Unit

MISCELLANEOUS

D 2001	(A,63,22)	Diode	UDZS18(B)
D 2002	(A,50,17)	Diode	UDZS18(B)
D 2003	(A,52,17)	Diode	UDZS18(B)
D 2004	(A,15,16)	Diode	RSB18V
D 2005	(A,17,20)	Diode	RSB18V
D 2006	(A,31,17)	Diode	UDZS18(B)
D 2007	(A,21,12)	Diode	RB751V-40
D 2008	(A,22,15)	Diode	UDZS18(B)

CAPACITORS

Circuit Symbol and No.		Part No.
C 2001	(A,63,26)	CKSQYB102K50
C 2002	(A,63,24)	CKSQYB102K50
C 2003	(A,13,31)	CKSQYB102K50
C 2004	(A,13,29)	CKSQYB102K50
C 2005	(A,13,26)	CKSQYB102K50
C 2007	(A,15,18)	CKSQYB102K50
C 2008	(A,17,22)	CKSQYB102K50
C 2009	(A,29,17)	CKSQYB102K50
C 2010	(A,48,17)	CKSQYB102K50
C 2011	(A,54,17)	CKSQYB102K50
C 2012	(A,63,21)	CCSQCH101J50
C 2013	(A,58,17)	CCSQCH101J50
C 2014	(A,22,17)	CKSQYB102K50
C 2015	(A,24,13)	CKSQYB102K50
C 2016	(A,27,17)	CKSQYB102K50

G

Unit Number : (MG9487ZT)
Unit Name : Keyboard Unit(Audio Panel PCB(R))

MISCELLANEOUS

IC 2701	(B,119,13)	IC	LC75700TS
Q 2701	(B,223,45)	Transistor	IMX1
Q 2702	(B,229,46)	Transistor	2SC4081
Q 2703	(B,50,44)	Transistor	2SA1235A-12
Q 2704	(B,59,44)	Transistor	2SA1235A-12
Q 2705	(B,69,45)	Transistor	2SA1235A-12
Q 2706	(B,46,38)	Transistor	2SA1235A-12
Q 2707	(B,181,19)	Transistor	2SA1235A-12
Q 2708	(B,175,19)	Transistor	2SA1235A-12
Q 2709	(B,170,18)	Transistor	2SA1235A-12
Q 2710	(B,186,19)	Transistor	2SA1235A-12
Q 2711	(B,192,19)	Transistor	2SA1235A-12
Q 2712	(B,152,15)	Transistor	2SA1235A-12
Q 2713	(B,156,19)	Transistor	2SC4081
Q 2714	(B,99,23)	Digital Transistor	DTC144EUA
Q 2715	(B,219,15)	Transistor	2SA1235A-12
Q 2716	(B,230,15)	Transistor	2SA1235A-12
Q 2717	(B,240,15)	Transistor	2SA1235A-12
Q 2718	(B,250,15)	Transistor	2SA1235A-12
D 2701	(B,142,23)	Diode	1SS352
D 2702	(B,233,27)	Diode	1SS352
D 2703	(B,76,33)	Diode	1SS352
D 2705	(B,233,29)	Diode	1SS352
D 2706	(A,79,60)	LED	VYPY1105W-3C62A
D 2707	(A,209,60)	LED	VYPY1105W-3C62A
D 2708	(B,142,26)	Diode	1SS352
D 2709	(B,179,27)	Diode	1SS352
D 2710	(B,99,27)	Diode	1SS352
D 2711	(B,76,38)	Diode	1SS352
D 2712	(B,240,45)	Diode	1SS352
D 2713	(B,142,25)	Diode	1SS352
D 2715	(B,179,29)	Diode	1SS352
D 2717	(B,152,19)	Diode	1SS352
D 2718	(A,79,45)	LED	VFY1105W-3CX2D
D 2719	(A,209,45)	LED	VFY1105W-3CX2D
D 2720	(B,132,21)	Diode	1SS352
D 2721	(B,154,24)	Diode	1SS352
D 2722	(B,167,25)	Diode	1SS352

Circuit Symbol and No.		Part No.
D 2724	(B,127,19) Diode	1SS352
D 2726	(A,7,53) LED	NHSB046AR8A0694
D 2727	(A,39,58) LED	NHSB046AR8A0694
D 2728	(B,125,27) Diode	1SS352
D 2729	(B,125,28) Diode	1SS352
D 2730	(B,47,25) Diode	1SS352
D 2732	(B,47,27) Diode	1SS352
D 2735	(A,28,27) LED	NHSB046AR8A0694
D 2736	(A,58,55) LED	NHSB046AR8A0694
D 2737	(A,69,33) LED	NHSB046AR8A0694
D 2738	(A,44,16) LED	NHSB046AR8A0694
D 2739	(A,64,16) LED	NHSB046AR8A0694
D 2740	(A,89,33) LED	NHSB046AR8A0694
D 2741	(A,110,33) LED	NHSB046AR8A0694
D 2742	(A,116,16) LED	NHSB046AR8A0694
D 2743	(A,91,16) LED	NHSB046AR8A0694
D 2744	(A,140,16) LED	NHSB046AR8A0694
D 2745	(A,165,16) LED	NHSB046AR8A0694
D 2747	(A,130,33) LED	NHSB046AR8A0694
D 2748	(A,151,33) LED	NHSB046AR8A0694
D 2749	(A,189,16) LED	NHSB046AR8A0694
D 2750	(A,171,33) LED	NHSB046AR8A0694
D 2751	(A,218,30) LED	NHSB046AR8A0694
D 2752	(A,199,30) LED	NHSB046AR8A0694
D 2753	(A,222,16) LED	NHSB046AR8A0694
D 2754	(A,242,16) LED	NHSB046AR8A0694
D 2755	(A,224,55) LED	NHSB046AR8A0694
D 2756	(B,243,45) Diode	1SS352
D 2757	(A,244,59) LED	NHSB046AR8A0694
D 2758	(A,276,54) LED	NHSB046AR8A0694
D 2759	(A,255,28) LED	NHSB046AR8A0694
D 2760	(B,159,11) Diode	UDZS5R1(B)
D 2761	(B,36,32) Diode	1SS352
D 2762	(B,76,36) Diode	1SS352
D 2763	(B,47,29) Diode	1SS352
L 2701	(B,94,22) Inductor	LCTAW101J2520
S 2739	(A,24,46) Encoder(TUNE)	CSD1132
S 2740	(A,258,47) Encoder(PWR)	CSD1130

RESISTORS

R 2702	(B,227,46)	RS1/10S101J
R 2703	(B,226,41)	RS1/16S102J
R 2706	(B,228,40)	RS1/10S820J
R 2707	(B,230,41)	RS1/16S223J
R 2708	(B,232,46)	RS1/16S102J
R 2709	(B,226,49)	RS1/10S680J
R 2710	(B,219,41)	RS1/16S102J
R 2711	(B,51,49)	RS1/10S331J
R 2712	(B,48,48)	RS1/16S102J
R 2713	(B,60,49)	RS1/10S331J
R 2714	(B,57,48)	RS1/16S102J
R 2715	(B,69,49)	RS1/10S331J
R 2716	(B,67,48)	RS1/16S102J
R 2717	(B,42,40)	RS1/10S331J
R 2718	(B,45,46)	RS1/10S331J
R 2719	(B,55,46)	RS1/10S222J
R 2721	(B,45,44)	RS1/10S122J
R 2722	(B,55,44)	RS1/10S152J
R 2723	(B,64,44)	RS1/10S122J
R 2724	(B,43,35)	RS1/16S102J
R 2725	(B,180,14)	RS1/10S331J
R 2726	(B,182,14)	RS1/16S102J
R 2727	(B,174,14)	RS1/10S331J
R 2728	(B,176,14)	RS1/16S102J
R 2729	(B,169,14)	RS1/10S331J
R 2730	(B,45,32)	RS1/10S152J
R 2731	(B,117,37)	RS1/10S272J
R 2732	(B,141,15)	RS1/10S222J
R 2733	(B,48,32)	RS1/10S122J
R 2734	(B,113,37)	RS1/10S222J
R 2735	(B,144,15)	RS1/10S222J
R 2736	(B,171,14)	RS1/16S102J
R 2737	(B,185,14)	RS1/10S331J
R 2738	(B,187,14)	RS1/16S102J
R 2739	(B,191,14)	RS1/10S331J
R 2740	(B,193,14)	RS1/16S102J
R 2741	(B,220,19)	RS1/10S331J
R 2742	(B,164,17)	RS1/10S182J
R 2743	(B,163,34)	RS1/10S222J
R 2744	(B,180,34)	RS1/10S152J
R 2745	(B,162,17)	RS1/10S152J
R 2746	(B,158,34)	RS1/10S182J
R 2747	(B,177,34)	RS1/10S182J
R 2756	(B,218,18)	RS1/16S102J
R 2757	(B,231,19)	RS1/10S331J
R 2758	(B,150,12)	RS1/10S331J
R 2759	(B,228,18)	RS1/16S102J
R 2760	(B,241,19)	RS1/10S271J
R 2761	(B,238,18)	RS1/16S102J
R 2762	(B,251,19)	RS1/10S331J
R 2763	(B,248,18)	RS1/16S102J
R 2764	(B,155,11)	RS1/16S561J
R 2765	(B,157,17)	RS1/16S271J
R 2766	(B,160,17)	RS1/16S223J
R 2767	(B,220,28)	RS1/10S122J
R 2768	(B,161,19)	RS1/16S102J
R 2769	(B,128,13)	RS1/16S102J
R 2770	(B,127,13)	RS1/16S102J
R 2771	(B,126,13)	RS1/16S102J
R 2772	(B,122,21)	RS1/16S102J
R 2773	(B,121,21)	RS1/16S102J
R 2774	(B,120,21)	RS1/16S102J
R 2775	(B,118,21)	RS1/16S102J
R 2776	(B,114,21)	RS1/16S102J
R 2777	(B,116,21)	RS1/16S102J
R 2778	(B,117,21)	RS1/16S102J
R 2779	(B,117,8)	RS1/16S393J
R 2780	(B,101,21)	RS1/16S473J
R 2781	(B,110,20)	RS1/16S102J
R 2782	(B,112,20)	RS1/16S102J
R 2783	(B,113,20)	RS1/16S102J
R 2784	(B,105,24)	RS1/16S102J
R 2785	(B,105,22)	RS1/16S472J
R 2786	(B,225,16)	RS1/10S102J
R 2787	(B,235,16)	RS1/10S152J
R 2788	(B,246,16)	RS1/10S272J
R 2789	(B,220,30)	RS1/10S122J
R 2790	(B,225,14)	RS1/10S102J
R 2791	(B,235,14)	RS1/10S222J

Circuit Symbol and No.		Part No.
R 2792	(B,246,14)	RS1/10S222J

CAPACITORS

C 2701	(B,224,41)	CKSRYB103K50
C 2702	(B,232,41)	CKSRYB472K50
C 2703	(B,221,41)	CKSRYB103K50
C 2708	(B,152,12)	CKSRYB473K50
C 2709	(B,159,17)	CKSRYB472K50
C 2710	(B,163,12)	CKSRYB104K25
C 2711	(B,165,12)	CKSRYB104K25
C 2712	(B,118,8)	CKSRYB102K50
C 2713	(B,98,21)	CKSRYB472K50
C 2714	(B,104,20)	CCSRCH101J50
C 2715	(B,106,20)	CCSRCH101J50
C 2716	(B,107,20)	CCSRCH101J50
C 2717	(B,109,20)	CCSRCH101J50
C 2723	(B,114,8)	CKSRYB104K50
C 2724	(B,96,10)	CKSRYB104K50

H

Unit Number : (MG9487ZT)
Unit Name : Keyboard Unit(A/C Panel PCB(R))

MISCELLANEOUS

Q 2501	(B,120,19)	Transistor	2SC4081
Q 2502	(B,170,32)	Transistor	2SA1235A-12
Q 2503	(B,164,32)	Transistor	2SA1235A-12
Q 2504	(B,158,32)	Transistor	2SA1235A-12
Q 2505	(B,136,23)	Transistor	2SC4081
Q 2506	(B,152,32)	Transistor	2SA1235A-12
Q 2507	(B,146,32)	Transistor	2SA1235A-12
Q 2508	(B,140,32)	Transistor	2SA1235A-12
Q 2509	(B,134,33)	Transistor	2SA1235A-12
Q 2510	(B,66,19)	Transistor	2SC4081
Q 2512	(B,126,34)	Transistor	2SA1235A-12
Q 2513	(B,98,31)	Transistor	2SC4081
Q 2514	(B,71,44)	Transistor	2SC4081
Q 2515	(B,87,44)	Transistor	2SC4081
Q 2516	(B,79,44)	Transistor	2SC4081
D 2501	(A,14,45)	LED	VFR1105W-3C82A
D 2503	(A,113,44)	LED	VYPY1105W-3C52A
D 2504	(A,92,44)	LED	VYPY1105W-3C52A
D 2505	(A,176,42)	LED	NHSB046AR8A0694
D 2506	(A,113,38)	LED	NHSB046AR8A0694
D 2508	(A,175,18)	LED	NHSB046AR8A0694
D 2509	(A,113,17)	LED	NHSB046AR8A0694
D 2510	(A,133,17)	LED	NHSB046AR8A0694
D 2511	(A,92,24)	LED	VYPY1105W-3C52A
D 2512	(A,72,44)	LED	VYPY1105W-3C52A
D 2513	(A,113,24)	LED	VFY1105W-3C82D
D 2514	(A,92,38)	LED	NHSB046AR8A0694
D 2515	(A,139,41)	LED	NHSB046AR8A0694
D 2516	(A,155,41)	LED	NHSB046AR8A0694
D 2517	(A,24,32)	LED	NHSB046AR8A0694
D 2518	(A,92,17)	LED	NHSB046AR8A0694
D 2519	(A,154,17)	LED	NHSB046AR8A0694
D 2520	(A,72,38)	LED	NHSB046AR8A0694
D 2521	(A,58,17)	LED	NHSB046AR8A0694
D 2522	(A,133,24)	LED	VFY1105W-3C82D

Circuit Symbol and No.			Part No.
D 2523	(B,101,30)	Diode	UDZS5R1(B)
D 2524	(B,128,20)	Diode	1SS352
D 2526	(B,170,26)	Diode	1SS352
D 2527	(B,174,35)	Diode	1SS352
D 2528	(B,76,30)	Diode	1SS352
D 2529	(B,26,32)	Diode	1SS352
D 2530	(B,82,34)	Diode	1SS352
D 2531	(B,127,24)	Diode	1SS352
D 2532	(B,120,38)	Diode	1SS352
D 2533	(B,45,24)	Diode	1SS352
D 2534	(B,131,40)	Diode	1SS352
D 2535	(B,164,40)	Diode	1SS352
D 2536	(B,163,23)	Diode	1SS352
D 2537	(B,60,40)	Diode	1SS352

RESISTORS

R 2501	(B,19,41)	RS1/16S471J
R 2502	(B,81,40)	RS1/16S102J
R 2503	(B,88,40)	RS1/16S102J
R 2504	(B,72,40)	RS1/16S102J
R 2505	(B,78,39)	RS1/4SA271J
R 2506	(B,86,39)	RS1/4SA331J
R 2507	(B,167,33)	RS1/10S331J
R 2508	(B,166,28)	RS1/16S102J
R 2509	(B,161,33)	RS1/10S271J
R 2510	(B,161,28)	RS1/16S102J
R 2511	(B,155,33)	RS1/10S271J
R 2512	(B,155,28)	RS1/16S102J
R 2513	(B,171,39)	RS1/10S272J
R 2514	(B,169,20)	RS1/10S272J
R 2515	(B,113,39)	RS1/10S152J
R 2516	(B,115,15)	RS1/10S472J
R 2517	(B,151,24)	RS1/10S331J
R 2518	(B,150,21)	RS1/10S472J
R 2519	(B,62,18)	RS1/16S102J
R 2520	(B,140,25)	RS1/16S102J
R 2521	(B,70,39)	RS1/4SA221J
R 2522	(B,64,23)	RS1/4SA221J
R 2523	(B,149,33)	RS1/10S271J
R 2524	(B,149,28)	RS1/16S102J
R 2525	(B,143,33)	RS1/10S331J
R 2526	(B,143,28)	RS1/16S102J
R 2527	(B,137,33)	RS1/10S331J
R 2528	(B,140,28)	RS1/16S102J
R 2529	(B,131,31)	RS1/10S271J
R 2530	(B,135,29)	RS1/16S102J
R 2531	(B,92,39)	RS1/10S122J
R 2532	(B,69,23)	RS1/10S472J
R 2533	(B,139,40)	RS1/10S222J
R 2535	(B,154,41)	RS1/10S122J
R 2537	(B,27,36)	RS1/10S472J
R 2538	(B,52,26)	RS1/10S472J
R 2539	(B,124,20)	RS1/16S102J
R 2540	(B,133,23)	RS1/4SA561J
R 2544	(B,120,17)	RS1/4SA681J
R 2545	(B,126,30)	RS1/10S331J
R 2546	(B,110,34)	RS1/16S561J
R 2547	(B,98,37)	RS1/16S271J
R 2548	(B,96,35)	RS1/16S223J
R 2549	(B,92,32)	RS1/16S472J

Circuit Symbol and No.		Part No.
R 2550	(B,42,43)	RS1/16S1801F
R 2551	(B,37,43)	RS1/16S6800F
R 2552	(B,31,43)	RS1/16S1003F
R 2553	(B,82,16)	RS1/16S473J
R 2555	(B,17,41)	RS1/16S102J

CAPACITORS

C 2508	(B,112,32)	CKSRYB473K50
C 2509	(B,94,34)	CKSRYB472K50
C 2510	(B,112,28)	CKSRYB104K25
C 2511	(B,110,29)	CKSRYB104K25

I

Unit Number : CWN3673
Unit Name : Antenna Unit

MISCELLANEOUS

ANT1	(A,17,11)	BT Antenna	CWX3733

J

Unit Number : (MG9587ZT)
Unit Name : Keyboard Unit(Audio Panel PCB(L))

MISCELLANEOUS

IC 2701	(B,52,22)	IC	LC75700TS
Q 2701	(B,48,48)	Transistor	IMX1
Q 2702	(B,53,44)	Transistor	2SC4081
Q 2703	(B,19,20)	Transistor	2SA1235A-12
Q 2704	(B,33,27)	Transistor	2SA1235A-12
Q 2705	(B,223,18)	Transistor	2SA1235A-12
Q 2706	(B,24,20)	Transistor	2SA1235A-12
Q 2707	(B,143,18)	Transistor	2SA1235A-12
Q 2708	(B,154,20)	Transistor	2SA1235A-12
Q 2709	(B,166,21)	Transistor	2SA1235A-12
Q 2710	(B,175,21)	Transistor	2SA1235A-12
Q 2711	(B,185,21)	Transistor	2SA1235A-12
Q 2712	(B,124,17)	Transistor	2SA1235A-12
Q 2713	(B,117,21)	Transistor	2SC4081
Q 2714	(B,50,13)	Digital Transistor	DTC144EUA
Q 2715	(B,216,20)	Transistor	2SA1235A-12
Q 2716	(B,134,18)	Transistor	2SA1235A-12
Q 2717	(B,231,20)	Transistor	2SA1235A-12
Q 2718	(B,238,38)	Transistor	2SA1235A-12
D 2701	(B,101,27)	Diode	1SS352
D 2702	(B,101,29)	Diode	1SS352
D 2703	(B,100,17)	Diode	1SS352
D 2705	(B,66,28)	Diode	1SS352
D 2706	(A,205,60)	LED	VYPY1105W-3C62A
D 2707	(A,75,60)	LED	VYPY1105W-3C62A
D 2708	(B,118,30)	Diode	1SS352
D 2709	(B,61,33)	Diode	1SS352
D 2710	(B,150,29)	Diode	1SS352
D 2711	(B,58,46)	Diode	1SS352
D 2712	(B,233,47)	Diode	1SS352
D 2713	(B,119,21)	Diode	1SS352
D 2715	(B,35,19)	Diode	1SS352
D 2717	(B,158,21)	Diode	1SS352
D 2718	(A,205,45)	LED	VFY1105W-3CX2D
D 2719	(A,75,45)	LED	VFY1105W-3CX2D
D 2720	(B,167,28)	Diode	1SS352
D 2721	(B,184,28)	Diode	1SS352
D 2722	(B,179,23)	Diode	1SS352
D 2724	(B,159,21)	Diode	1SS352
D 2726	(A,7,54)	LED	NHSB046AR8A0694
D 2727	(A,29,28)	LED	NHSB046AR8A0694
D 2728	(B,43,33)	Diode	1SS352
D 2729	(B,221,30)	Diode	1SS352
D 2730	(B,243,21)	Diode	1SS352
D 2732	(B,221,11)	Diode	1SS352
D 2735	(A,40,59)	LED	NHSB046AR8A0694
D 2736	(A,219,16)	LED	NHSB046AR8A0694
D 2737	(A,240,16)	LED	NHSB046AR8A0694
D 2738	(A,41,16)	LED	NHSB046AR8A0694
D 2739	(A,61,16)	LED	NHSB046AR8A0694
D 2740	(A,60,55)	LED	NHSB046AR8A0694
D 2741	(A,112,33)	LED	NHSB046AR8A0694
D 2742	(A,133,33)	LED	NHSB046AR8A0694
D 2743	(A,153,33)	LED	NHSB046AR8A0694
D 2744	(A,119,16)	LED	NHSB046AR8A0694
D 2745	(A,94,16)	LED	NHSB046AR8A0694
D 2747	(A,143,16)	LED	NHSB046AR8A0694
D 2748	(A,168,16)	LED	NHSB046AR8A0694
D 2749	(A,194,33)	LED	NHSB046AR8A0694
D 2750	(A,174,33)	LED	NHSB046AR8A0694
D 2751	(A,215,33)	LED	NHSB046AR8A0694
D 2752	(A,192,16)	LED	NHSB046AR8A0694
D 2753	(A,65,30)	LED	NHSB046AR8A0694
D 2754	(A,85,30)	LED	NHSB046AR8A0694
D 2755	(A,245,58)	LED	NHSB046AR8A0694
D 2756	(B,237,47)	Diode	1SS352
D 2757	(A,226,55)	LED	NHSB046AR8A0694
D 2758	(A,256,27)	LED	NHSB046AR8A0694
D 2759	(A,277,53)	LED	NHSB046AR8A0694
D 2760	(B,117,16)	Diode	UDZS5R1(B)
D 2761	(B,42,51)	Diode	1SS352
D 2762	(B,61,46)	Diode	1SS352
L 2701	(B,61,25)	Inductor	LCTAW101J2520
S 2739	(A,25,47)	Encoder(PWR)	CSD1130
S 2740	(A,259,46)	Encoder(TUNE)	CSD1132

RESISTORS

R 2702	(B,48,42)	RS1/10S101J
R 2703	(B,45,49)	RS1/16S102J
R 2706	(B,52,48)	RS1/10S820J
R 2707	(B,45,54)	RS1/16S223J
R 2708	(B,43,48)	RS1/16S102J
R 2709	(B,48,44)	RS1/10S680J
R 2710	(B,45,43)	RS1/16S102J
R 2711	(B,20,24)	RS1/10S331J
R 2712	(B,18,24)	RS1/16S102J
R 2713	(B,29,30)	RS1/10S331J
R 2714	(B,29,28)	RS1/16S102J
R 2715	(B,220,15)	RS1/10S331J
R 2716	(B,224,22)	RS1/16S102J
R 2717	(B,26,24)	RS1/10S331J
R 2718	(B,19,16)	RS1/10S331J
R 2719	(B,34,24)	RS1/10S222J

Circuit Symbol and No.		Part No.
R 2720	(B,220,22)	RS1/10S122J
R 2721	(B,22,17)	RS1/10S222J
R 2722	(B,32,18)	RS1/10S272J
R 2723	(B,221,25)	RS1/10S152J
R 2724	(B,23,23)	RS1/16S102J
R 2725	(B,140,16)	RS1/10S331J
R 2726	(B,146,18)	RS1/16S102J
R 2727	(B,154,17)	RS1/10S331J
R 2728	(B,155,23)	RS1/16S102J
R 2729	(B,166,17)	RS1/10S331J
R 2730	(B,25,16)	RS1/10S102J
R 2731	(B,139,20)	RS1/10S152J
R 2732	(B,150,21)	RS1/10S182J
R 2733	(B,28,16)	RS1/10S102J
R 2734	(B,140,24)	RS1/10S182J
R 2735	(B,148,24)	RS1/10S222J
R 2736	(B,167,24)	RS1/16S102J
R 2737	(B,176,18)	RS1/10S331J
R 2738	(B,176,24)	RS1/16S102J
R 2739	(B,183,17)	RS1/10S331J
R 2740	(B,186,17)	RS1/16S102J
R 2741	(B,217,15)	RS1/10S331J
R 2742	(B,162,21)	RS1/10S152J
R 2743	(B,172,20)	RS1/10S182J
R 2744	(B,181,21)	RS1/10S272J
R 2745	(B,163,24)	RS1/10S152J
R 2746	(B,172,23)	RS1/10S222J
R 2747	(B,184,24)	RS1/10S222J
R 2756	(B,218,24)	RS1/16S102J
R 2757	(B,136,15)	RS1/10S331J
R 2758	(B,129,15)	RS1/10S331J
R 2759	(B,134,21)	RS1/16S102J
R 2760	(B,226,15)	RS1/10S271J
R 2761	(B,234,22)	RS1/16S102J
R 2762	(B,241,39)	RS1/10S331J
R 2763	(B,235,39)	RS1/16S102J
R 2764	(B,118,18)	RS1/16S561J
R 2765	(B,118,24)	RS1/16S271J
R 2766	(B,115,24)	RS1/16S223J
R 2767	(B,213,22)	RS1/10S272J
R 2768	(B,115,21)	RS1/16S102J
R 2769	(B,50,32)	RS1/16S102J
R 2770	(B,51,32)	RS1/16S102J
R 2771	(B,53,32)	RS1/16S102J
R 2772	(B,48,32)	RS1/16S102J
R 2773	(B,47,32)	RS1/16S102J
R 2774	(B,43,23)	RS1/16S102J
R 2775	(B,43,21)	RS1/16S102J
R 2776	(B,43,20)	RS1/16S102J
R 2777	(B,43,18)	RS1/16S102J
R 2778	(B,43,17)	RS1/16S102J
R 2779	(B,57,28)	RS1/16S393J
R 2780	(B,52,17)	RS1/16S473J
R 2781	(B,57,18)	RS1/16S102J
R 2782	(B,59,19)	RS1/16S102J
R 2783	(B,61,20)	RS1/16S102J
R 2784	(B,62,22)	RS1/16S102J
R 2785	(B,59,23)	RS1/16S472J
R 2786	(B,131,19)	RS1/10S122J
R 2787	(B,227,20)	RS1/10S122J
R 2788	(B,239,32)	RS1/10S152J
R 2789	(B,212,17)	RS1/10S222J
R 2790	(B,132,23)	RS1/10S122J
R 2792	(B,237,29)	RS1/10S122J

CAPACITORS

C 2701	(B,49,54)	CKSRYB103K50
C 2702	(B,43,54)	CKSRYB472K50
C 2703	(B,47,54)	CKSRYB103K50
C 2708	(B,121,16)	CKSRYB473K50
C 2709	(B,116,24)	CKSRYB472K50
C 2710	(B,112,15)	CKSRYB104K25
C 2711	(B,112,17)	CKSRYB104K25
C 2712	(B,58,28)	CKSRYB102K50
C 2713	(B,51,15)	CKSRYB472K50
C 2714	(B,61,18)	CCSRCH101J50
C 2715	(B,60,18)	CCSRCH101J50
C 2716	(B,56,13)	CCSRCH101J50
C 2717	(B,54,13)	CCSRCH101J50
C 2723	(B,60,28)	CKSRYB104K50
C 2724	(B,63,28)	CKSRYB104K50

K

Unit Number : (MG9587ZT)

Unit Name : Keyboard Unit(A/C Panel PCB(L))

MISCELLANEOUS

Q 2501	(B,55,27)	Transistor	2SC4081
Q 2502	(B,140,30)	Transistor	2SA1235A-12
Q 2503	(B,135,31)	Transistor	2SA1235A-12
Q 2504	(B,130,31)	Transistor	2SA1235A-12
Q 2505	(B,55,30)	Transistor	2SC4081
Q 2506	(B,124,31)	Transistor	2SA1235A-12
Q 2507	(B,119,31)	Transistor	2SA1235A-12
Q 2508	(B,113,31)	Transistor	2SA1235A-12
Q 2509	(B,108,31)	Transistor	2SA1235A-12
Q 2510	(B,55,34)	Transistor	2SC4081
Q 2512	(B,104,29)	Transistor	2SA1235A-12
Q 2513	(B,98,32)	Transistor	2SC4081
Q 2514	(B,110,47)	Transistor	2SC4081
Q 2515	(B,96,45)	Transistor	2SC4081
Q 2516	(B,102,45)	Transistor	2SC4081
D 2501	(A,173,45)	LED	VFR1105W-3C82A
D 2503	(A,74,45)	LED	VYPY1105W-3C52A
D 2504	(A,95,45)	LED	VYPY1105W-3C52A
D 2505	(A,11,42)	LED	NHSB046AR8A0694
D 2506	(A,74,38)	LED	NHSB046AR8A0694
D 2508	(A,12,18)	LED	NHSB046AR8A0694
D 2509	(A,54,17)	LED	NHSB046AR8A0694
D 2510	(A,74,17)	LED	NHSB046AR8A0694
D 2511	(A,95,24)	LED	VYPY1105W-3C52A
D 2512	(A,115,45)	LED	VYPY1105W-3C52A
D 2513	(A,54,24)	LED	VFY1105W-3C82D
D 2514	(A,95,38)	LED	NHSB046AR8A0694
D 2515	(A,32,42)	LED	NHSB046AR8A0694
D 2516	(A,48,42)	LED	NHSB046AR8A0694
D 2517	(A,163,33)	LED	NHSB046AR8A0694
D 2518	(A,95,17)	LED	NHSB046AR8A0694
D 2519	(A,33,17)	LED	NHSB046AR8A0694
D 2520	(A,115,38)	LED	NHSB046AR8A0694

Circuit Symbol and No.		Part No.
D 2521	(A,129,17) LED	NHSB046AR8A0694
D 2522	(A,74,24) LED	VFY1105W-3C82D
D 2523	(B,98,34) Diode	UDZS5R1(B)
D 2524	(B,38,30) Diode	1SS352
D 2526	(B,30,35) Diode	1SS352
D 2527	(B,28,32) Diode	1SS352
D 2528	(B,66,11) Diode	1SS352
D 2529	(B,130,13) Diode	1SS352
D 2530	(B,60,45) Diode	1SS352
D 2531	(B,63,12) Diode	1SS352
D 2532	(B,42,34) Diode	1SS352
D 2533	(B,125,11) Diode	1SS352
D 2534	(B,24,32) Diode	1SS352
D 2535	(B,41,41) Diode	1SS352
D 2536	(B,24,24) Diode	1SS352
D 2537	(B,105,12) Diode	1SS352

RESISTORS

R 2501	(B,145,30)	RS1/16S471J
R 2502	(B,99,42)	RS1/16S102J
R 2503	(B,89,42)	RS1/16S102J
R 2504	(B,110,44)	RS1/16S102J
R 2505	(B,99,46)	RS1/4SA271J
R 2506	(B,92,46)	RS1/4SA331J
R 2507	(B,136,35)	RS1/10S331J
R 2508	(B,139,26)	RS1/16S102J
R 2509	(B,133,32)	RS1/10S271J
R 2510	(B,135,27)	RS1/16S102J
R 2511	(B,127,32)	RS1/10S271J
R 2512	(B,130,27)	RS1/16S102J
R 2513	(B,13,33)	RS1/10S272J
R 2514	(B,16,21)	RS1/10S272J
R 2515	(B,67,37)	RS1/10S152J
R 2516	(B,53,18)	RS1/10S472J
R 2517	(B,60,13)	RS1/10S331J
R 2518	(B,61,16)	RS1/10S472J
R 2519	(B,58,33)	RS1/16S102J
R 2520	(B,58,29)	RS1/16S102J
R 2521	(B,105,46)	RS1/4SA221J
R 2522	(B,51,33)	RS1/4SA221J
R 2523	(B,122,32)	RS1/10S271J
R 2524	(B,125,27)	RS1/16S102J
R 2525	(B,116,32)	RS1/10S331J
R 2526	(B,119,27)	RS1/16S102J
R 2527	(B,111,32)	RS1/10S271J
R 2528	(B,114,28)	RS1/16S102J
R 2529	(B,105,33)	RS1/10S271J
R 2530	(B,109,28)	RS1/16S102J
R 2531	(B,93,39)	RS1/10S122J
R 2532	(B,107,18)	RS1/10S472J
R 2533	(B,32,40)	RS1/10S122J
R 2535	(B,55,39)	RS1/10S122J
R 2536	(B,115,38)	RS1/10S272J
R 2537	(B,154,35)	RS1/10S472J
R 2538	(B,124,19)	RS1/10S472J
R 2539	(B,58,26)	RS1/16S102J
R 2540	(B,51,29)	RS1/4SA561J
R 2544	(B,51,26)	RS1/4SA681J
R 2545	(B,103,34)	RS1/10S331J

Circuit Symbol and No.		Part No.
R 2546	(B,101,32)	RS1/16S561J
R 2547	(B,95,31)	RS1/16S271J
R 2548	(B,97,29)	RS1/16S223J
R 2549	(B,100,28)	RS1/16S472J
R 2550	(B,143,45)	RS1/16S1801F
R 2551	(B,154,45)	RS1/16S6800F
R 2552	(B,159,44)	RS1/16S1003F
R 2553	(B,83,28)	RS1/16S473J
R 2555	(B,145,34)	RS1/16S102J

CAPACITORS

C 2508	(B,101,35)	CKSRYB473K50
C 2509	(B,98,29)	CKSRYB472K50
C 2510	(B,93,32)	CKSRYB104K25
C 2511	(B,93,31)	CKSRYB104K25

C

Unit Number : CWX3490
Unit Name : Control Unit

MISCELLANEOUS

IC 201	(A,56,27)	IC	PE5593A
IC 202	(B,63,31)	IC	MSM56V16160J-8T3
IC 203	(A,39,12)	IC	NJM2885DL1-33
IC 301	(A,74,38)	IC	BA6859AFP-Y
IC 302	(B,15,21)	IC	BD7962FM
IC 702	(A,37,23)	IC	BR93L56RFVM-W
Q 101	(A,28,40)	Transistor	2SA1577
Q 301	(B,70,11)	Transistor	2SC4081
Q 702	(A,31,22)	Digital Transistor	DTA143EUA
D 301	(B,73,13)	Diode	UDZS5R6(B)
L 203	(A,77,24)	Inductor	CTF1675
L 204	(A,75,25)	Inductor	CTF1675
L 206	(A,65,18)	Inductor	CTF1707
L 225	(A,66,19)	Inductor	CTF1708
L 226	(A,68,19)	Inductor	CTF1708
X 201	(A,65,13)	Ceramic Resonator	16.934 MHz CSS1603

RESISTORS

R 101	(A,8,23)	RS1/10SR471J
R 102	(A,10,23)	RS1/10SR331J
R 103	(B,35,36)	RS1/10SR2R7J
R 104	(B,37,37)	RS1/10SR2R4J
R 105	(B,37,38)	RS1/10SR2R4J
R 108	(A,42,32)	RS1/16SS272J
R 201	(B,53,41)	RS1/16SS224J
R 202	(B,54,42)	RS1/16SS153J
R 203	(A,46,40)	RS1/16SS222J
R 204	(A,46,38)	RS1/16SS562J
R 205	(A,47,37)	RS1/16SS472J
R 206	(A,64,16)	RS1/16SS471J
R 207	(A,49,37)	RS1/16SS101J
R 210	(A,26,24)	RS1/16SS105J
R 214	(B,56,42)	RS1/16SS103J
R 218	(A,56,45)	RS1/16SS103J
R 227	(A,72,26)	RS1/16SS221J
R 228	(A,71,20)	RS1/16SS1R0J
R 233	(A,77,19)	RS1/16SS470J
R 234	(A,78,19)	RS1/16SS101J

Circuit Symbol and No.		Part No.
R 235	(A,78,24)	RS1/16SS151J
R 301	(B,10,40)	RS1/16SS221J
R 303	(B,40,10)	RS1/16SS333J
R 305	(B,11,5)	RS1/16SS153J
R 306	(B,12,5)	RS1/16SS153J
R 308	(B,75,34)	RS1/16SS102J
R 309	(B,56,12)	RS1/16SS102J
R 310	(A,62,42)	RS1/16SS221J
R 311	(A,16,21)	RS1/16SS123J
R 312	(A,16,25)	RS1/16SS223J
R 313	(A,13,22)	RS1/16SS333J
R 314	(A,16,23)	RS1/16SS473J
R 315	(B,49,6)	RAB4CQ103J
R 316	(B,75,28)	RS1/10SR1R0J
R 317	(B,75,26)	RS1/10SR2R2J
R 319	(B,24,16)	RS1/16SS183J
R 320	(B,25,25)	RS1/16SS333J
R 321	(B,25,16)	RS1/16SS123J
R 322	(B,27,24)	RS1/16SS183J
R 323	(B,38,11)	RS1/16SS123J
R 331	(B,70,13)	RS1/16SS271J
R 703	(A,44,18)	RS1/16SS104J
R 704	(A,42,18)	RS1/16SS223J
R 705	(B,50,26)	RAB4CQ103J
R 708	(A,46,16)	RS1/16SS103J
R 710	(B,22,27)	RS1/16SS473J
R 711	(B,37,23)	RS1/16SS682J
R 715	(B,39,26)	RS1/16SS473J
R 721	(B,45,20)	RS1/16SS102J
R 729	(B,50,18)	RS1/16SS1R0J
R 731	(A,39,20)	RS1/16S473J
R 732	(B,51,17)	RS1/16SS221J
R 733	(B,57,14)	RS1/16SS102J
R 734	(B,57,15)	RS1/16SS473J
R 735	(A,37,21)	RS1/16S472J
R 736	(A,37,19)	RS1/16SS473J
R 740	(B,35,28)	RS1/16SS104J
R 745	(B,55,20)	RS1/16SS104J
R 746	(A,47,14)	RS1/16SS473J
R 750	(A,52,11)	RS1/16S473J
R 901	(A,23,23)	RS1/16SS221J
R 902	(B,54,14)	RS1/16SS221J
R 904	(B,26,26)	RS1/16SS101J
R 906	(B,36,16)	RS1/16SS221J
R 910	(B,37,11)	RS1/16SS221J
R 919	(B,59,6)	RS1/16SS102J

CAPACITORS

C 102	(B,18,37)	CKSSYB104K10
C 104	(A,40,31)	CKSQYB475K6R3
C 201	(B,54,40)	CKSSYB102K50
C 202	(B,53,40)	CKSSYB103K16
C 203	(A,49,41)	CKSSYB104K10
C 204	(B,40,29)	CKSSYB102K50
C 205	(A,47,36)	CCSSCH5R0C50
C 206	(A,49,40)	CKSSYB152K50
C 207	(A,47,38)	CCSSCH330J50
C 208	(A,45,36)	CKSRYB105K6R3
C 209	(A,40,29)	CKSSYB104K10
C 210	(A,42,36)	CCSSCH470J50
C 211	(A,41,34)	CKSSYB103K16
C 212	(A,51,40)	CKSSYB104K10
C 213	(A,49,38)	CKSSYB104K10
C 214	(A,44,37)	CCSSCH680J50
C 215	(A,46,35)	CKSSYB104K10
C 216	(B,56,41)	CKSSYB102K50
C 217	(A,62,11)	CKSQYB475K6R3
C 218	(A,63,14)	CKSSYB104K10
C 219	(A,58,44)	CKSSYB102K50
C 220	(A,63,38)	CKSSYB104K10
C 221	(B,54,24)	CKSSYB104K10
C 223	(B,64,24)	CKSSYB104K10
C 224	(B,64,38)	CKSSYB104K10
C 225	(A,67,17)	CKSSYB104K10
C 228	(B,69,24)	CKSSYB104K10
C 229	(B,69,38)	CKSSYB104K10
C 230	(A,70,19)	CKSSYB104K10
C 231	(A,66,15)	CKSRYB104K10
C 232	(B,73,24)	CKSSYB104K10
C 233	(A,68,20)	CKSSYB104K10
C 234	(A,31,14)	CKSQYB225K10
C 235	(B,62,18)	CEVW221M4
C 237	(A,32,15)	CKSSYB104K10
C 238	(A,33,18)	CKSRYB105K10
C 244	(A,75,24)	CCSSCH220J50
C 245	(A,77,23)	CCSSCH220J50
C 256	(A,73,22)	CKSRYB104K10
C 301	(A,16,24)	CCSSCH101J50
C 302	(A,14,22)	CCSSCH101J50
C 303	(A,69,43)	CKSSYB104K10
C 304	(B,23,19)	CKSQYB475K10
C 305	(B,73,18)	CEVW101M10
C 306	(B,23,16)	CKSSYB103K16
C 307	(B,26,25)	CKSSYB103K16
C 308	(A,69,35)	CKSRYB103K25
C 331	(B,74,13)	CKSRYB104K10
C 702	(A,48,11)	CKSSYB104K10
C 703	(A,41,17)	CKSSYB103K16
C 704	(A,40,17)	CKSSYB103K16
C 705	(B,40,16)	CKSSYB103K16
C 706	(B,38,16)	CKSSYB103K16
C 707	(B,44,28)	CKSSYB103K16
C 709	(A,45,19)	CKSRYB105K6R3
C 714	(B,47,20)	CKSSYB222K50
C 718	(B,44,33)	CKSSYB103K16
C 731	(A,33,23)	CKSRYB104K10
C 755	(B,47,28)	CKSSYB103K16
C 760	(A,26,21)	CCSSCH221J50
C 903	(B,68,7)	CCSSCH220J50
C 907	(B,68,8)	CCSSCH470J50
C 908	(B,72,8)	CCSSCH220J50

D

Unit Number : CWX3613
Unit Name : PCB Assy

MISCELLANEOUS

Circuit Symbol and No.		Part No.
VR11	Semi-fixed 1 kohm(B)	CCP1442
VR12	Semi-fixed 1 kohm(B)	CCP1442

RESISTORS

R 11	RS1/16S562J
R 12	RS1/16S472J
R 13	RS1/16S562J
R 14	RS1/16S562J

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