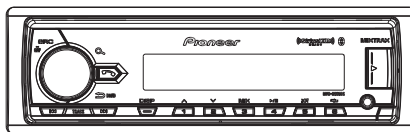


Pioneer

Service Manual



MVH-X580BS/XNUC

ORDER NO.
CRT5837

DIGITAL MEDIA RECEIVER

MVH-X580BS /XNUC

MVH-X580DAB /XNEW5

MVH-X580BT /XNEW5

MVH-X585BT /XNES



SAFETY INFORMATION

CAUTION

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 safely 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 safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

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:



CAUTION

Danger of explosion if battery is incorrectly replaced.
Replaced only with the same or equivalent type recommended by the manufacturer.
Discard used batteries according to the manufacturer's instructions.

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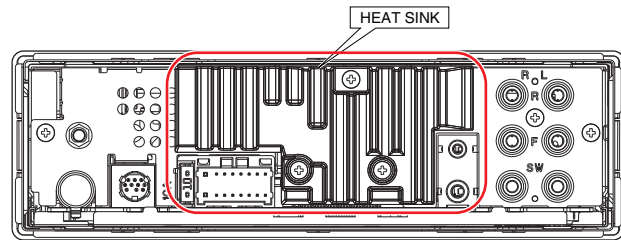
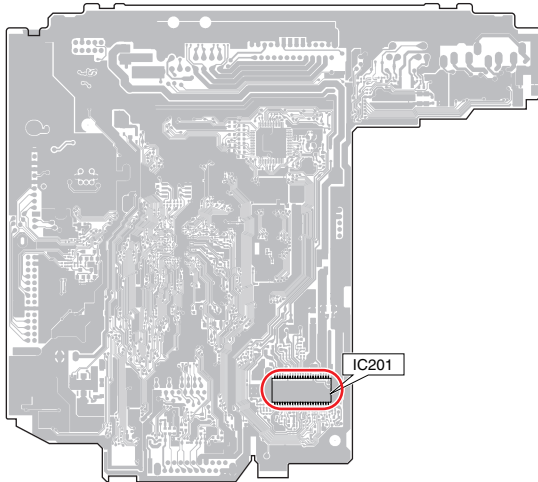
1. SERVICE PRECAUTIONS

1.1 SAFETY PRECAUTIONS



- 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.
-  area and a heat sink becomes hot areas. Be careful not to burn yourself.

TUNER AMP UNIT (Side B)

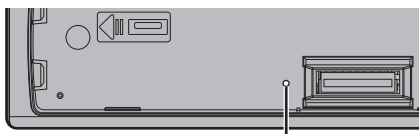


1.2 NOTES ON DISASSEMBLY / ASSEMBLY

- 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.
- Please be sure to conduct line process to original status if you make assembling after repair.

1.3 NOTES ON OPERATION CHECK / DIAGNOSIS

- Resetting the microprocessor
 - 1.Remove the front panel.
 - 2.Press the RESET button with a pointed instrument longer than 8 mm.



RESET button

1.4 NOTES ON REPLACING PARTS

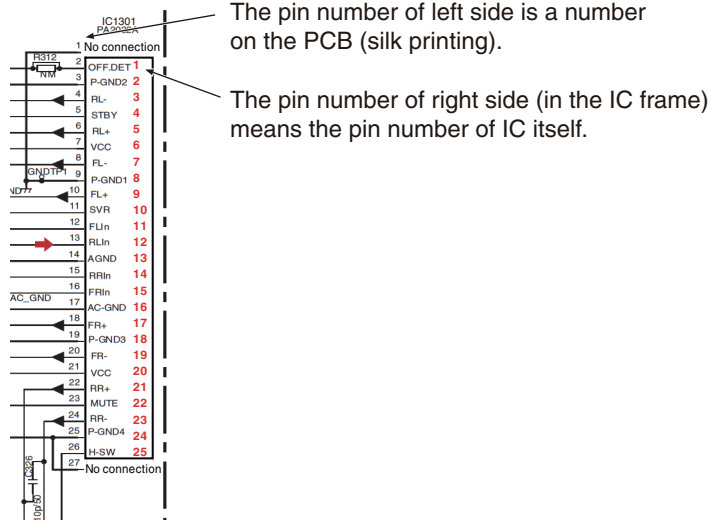
- Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
- Please be careful of not to apply static charge onto integrated circuits, etc, when you conduct repair work. Especially, please use soldering iron with its tip grounded.
Also, please use a pair of tweezers with static charge protection capability if there is the possibility of contacting to device terminals, and avoid the use of metal-made tweezers.
- The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

SYSTEM MICROCOMPUTER	IC501	STA1080	BGA
BT MODULE	U1001	CWX4751	BGA
SYSTEM POWER SUPPLY	IC201	BD49101AEFS	Heat pad
E-VOL	IC751	PM9015A	Heat pad

- Notes about installation and pin number description of Power IC (IC1301: PA2032A)
The Power IC, PA2032A used on the Tuner Amp Unit is a 25 pin IC.
The same PCB of the Tuner Amp Unit is used for other models that use a 27 pin IC, too.
So, the PCB has lands for a 27 pin IC.
When you replace the Power IC, install the Power IC onto 25 pins (2- 26 pin) located in the center of 27 pins for IC301.

Therefore, when you check the Power IC on the schematic diagram and the PCB connection diagram, you have to pay attention as follows.

SCHEMATIC DIAGRAM



1.5 OTHERS

● 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.

2. SPECIFICATIONS

2.1 SPECIFICATIONS

For all items except the backup current, refer to the Owner's Manual.

Backup current..... 5.0 mA or less

2.2 DISC/CONTENT FORMAT

Made for



iPod



iPhone

PANDORA®



Spotify®



The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by PIONEER CORPORATION is under license. Other trademarks and trade names are those of their respective owners.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

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

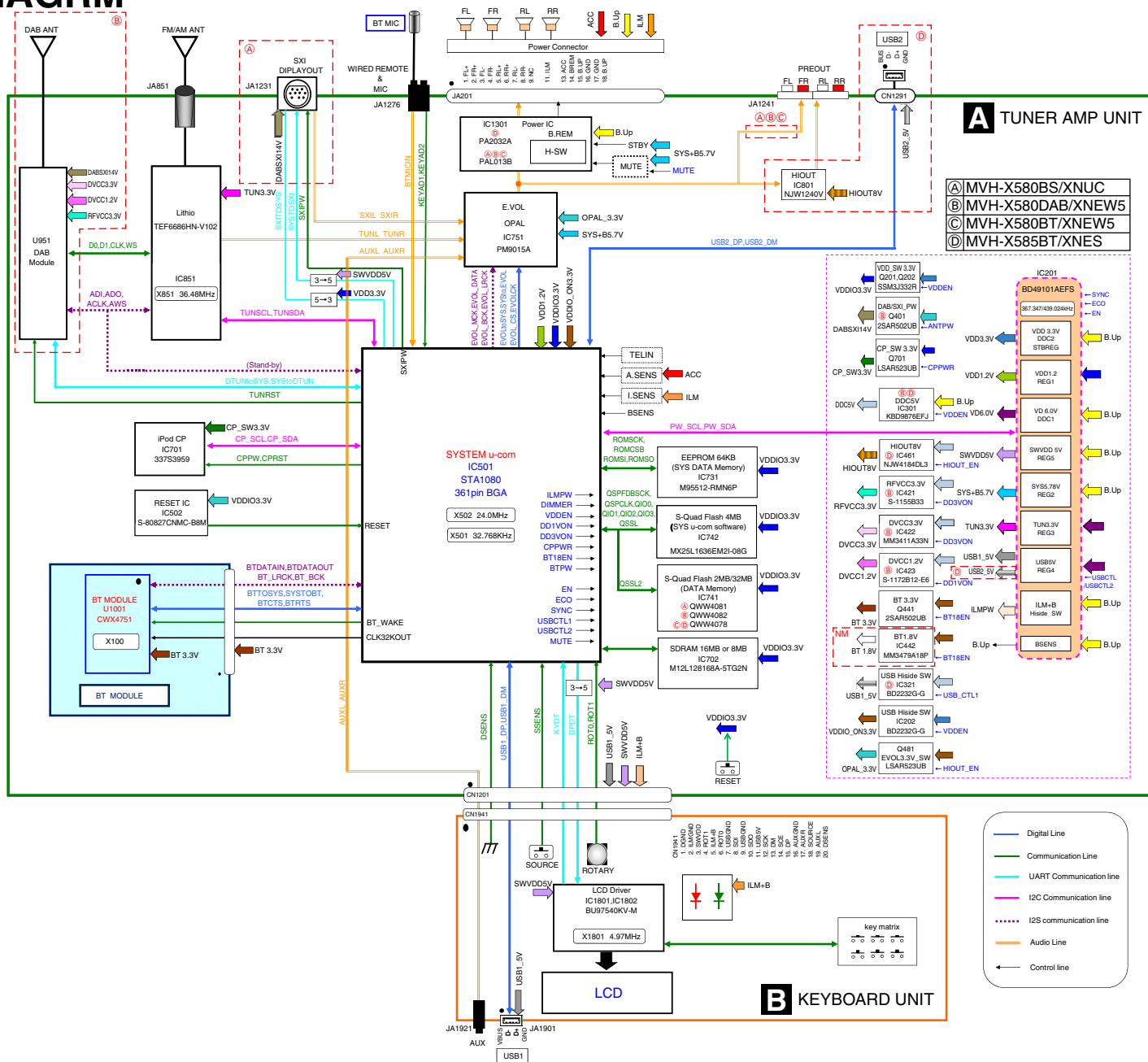
No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, audio and operations must be normal.
2	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
3		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:

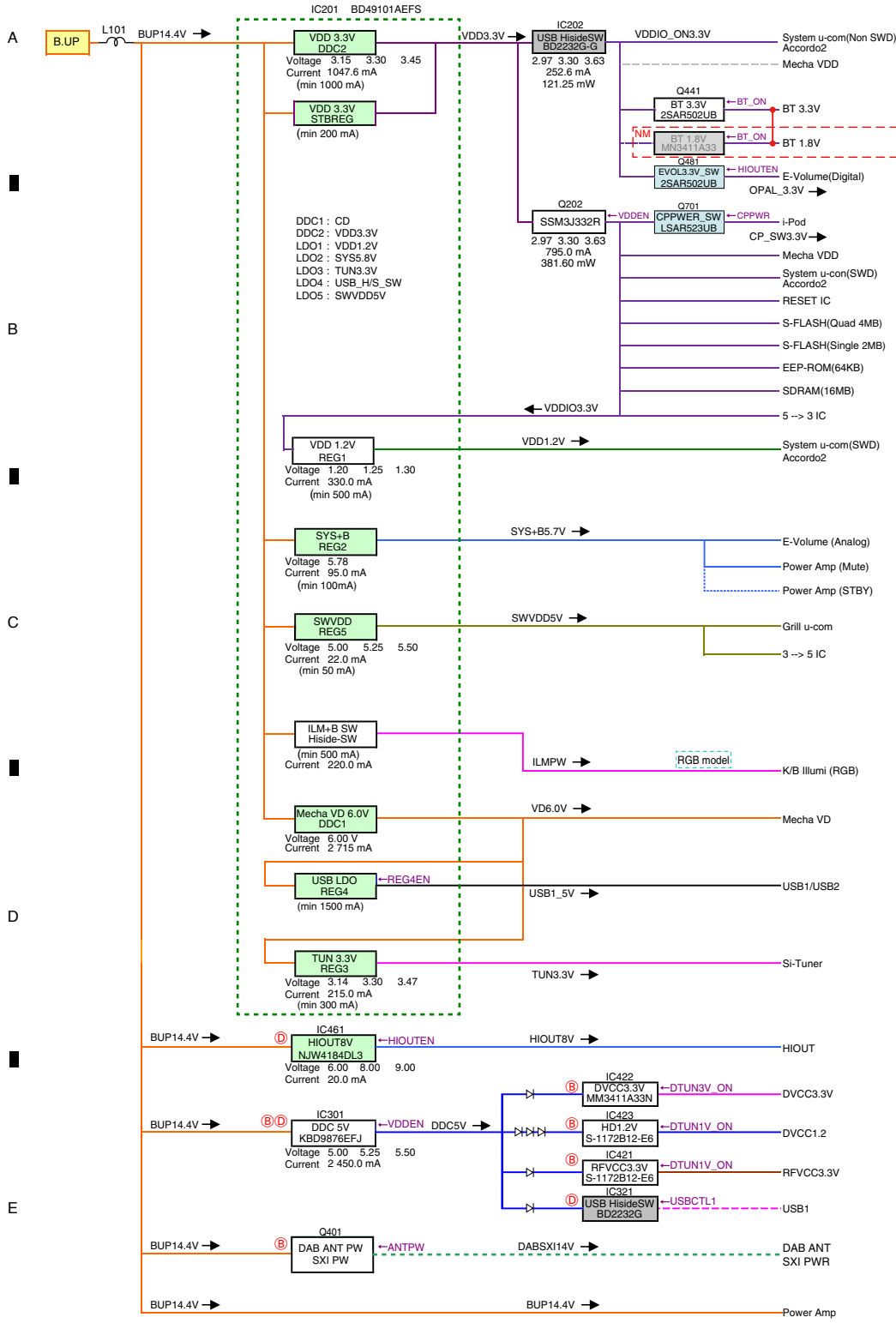
Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

4.1 BLOCK DIAGRAM

4. BLOCK DIAGRM



4.2 POWER BLOCK DIAGRAM



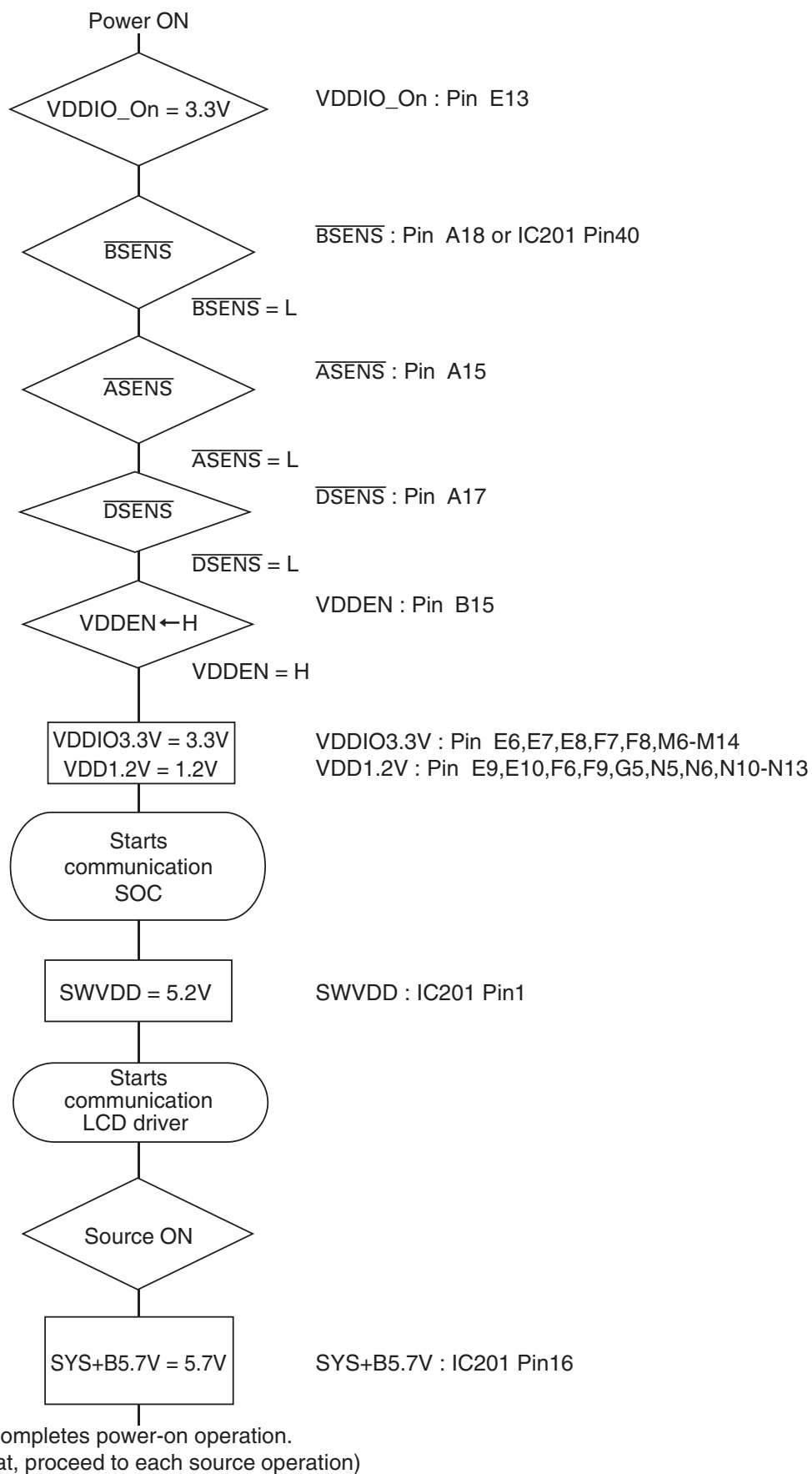
MAX	TYP	PART NO.
0.1 mA		STA1080
		S11.6 STD
97.5 mA	65.0 mA	BT HIC
60.0 mA	57.0 mA	BT HIC
95.0 mA	67.0 mA	PM9015A
7.5 mA	6.0 mA	337S3959
171 mA		S11.6 STD
150.0 mA		STA1080
0.0 mA	0.0 mA	S-80827CNMC-B8M
17.0 mA	10.0 mA	MX25L1636EM2I-08G
35.0 mA		MX25L1636EM2I-08G
2.5 mA		M95512-RMN6P
80.0 mA		M12L128168A-5TG2N
2.0 mA		TC7SH126FU
717.6 mA		STA1080
330.0 mA		STA1080
1047.6 mA		
95.0 mA	72.0 mA	PM9015A
0.018 mA		
10.0 mA	3.0 mA	BU97540KV
10.0 mA	3.0 mA	BU97540KV
2.0 mA		TC7SET08FUS1
220 mA		
1 000.0 mA	300.0 mA	S11.6 STD
1 500.0 mA	1 000.0 mA	USB1
215.0 mA	150.0 mA	Lithio
2715.0 mA	1450.0 mA	
20.0 mA	12.0 mA	NJW1240V
126 mA	50 mA	
383 mA	225 mA	
441 mA	414 mA	
1 500 mA	1 000 mA	USB1
2 450 mA		
400 mA		
300 mA	185 mA	

- A) MVH-X580BS/XNUC
- B) MVH-X580DAB/XNEW5
- C) MVH-X580BT/XNEW5
- D) MVH-X585BT/XNES

5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART

Signal on System ucom(IC501)



5.2 ERROR CODE LIST

Common

AMP ERROR

- This unit fails to operate or the speaker connection is incorrect.
 - Check the speaker connection.
 - Check the power IC and its peripheral circuit.

NO XXXX (NO TITLE, for example)

- There is no embedded text information.
 - Switch the display or play another track/file.

Bluetooth device

ERROR-10

- The power failed for the Bluetooth module of the unit.
 - Turn the ignition switch OFF and back to ACC or ON.

Apps

NO BT DEVICE GO TO BT MENU TO REGISTER

- No Bluetooth device found.
 - Connect the unit and the device via Bluetooth.

CONN. FAILED PRESS BAND KEY TO RETRY

- Bluetooth connection failed.
 - Press **BAND** /  to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY

- Bluetooth connection failed.
 - Press **BAND** /  to make a connection again.

CHECK APP

- Connection to the application failed.
 - Follow the instructions that appear on the screen.

START UP APP

- The application has not started running yet.
 - Operate the mobile device to start up the application.

Spotify

NO BT DEVICE GO TO BT MENU TO REGISTER

- No Bluetooth device found.
 - Connect the unit and the device via Bluetooth.

CONN. FAILED PRESS BAND KEY TO RETRY

- Bluetooth connection failed.
 - Press **BAND** /  to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY

- Connection to the Spotify application failed.
 - Press **BAND** /  to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY

- Bluetooth connection lost.
 - Press **BAND** /  to make a connection again.

CHECK APP

- Connection to the Spotify application failed.
 - Follow the instructions that appear on the screen.

Pandora

ERROR-19

- Communication failed.
 - Disconnect the cable from the device. Once the device's main menu is displayed, reconnect the device and reset it.

START UP APP

- The Pandora application has not started running yet.
 - Start up the Pandora application.

RATING ERROR

- The thumb rating operation was disabled.
 - Run the same command for another track.

CAN'T SKIP

- The skip operation was disabled.
 - Run the same command for another track.

TRY LATER

- Unable to save thumb rating.
- Unable to save BookMark.
- Unable to add station.
 - Try again later.

MAINTENANCE

- Pandora system is undergoing maintenance.
 - Try again later.

SKIP LIMIT

- Due to music licensing restrictions, Pandora limits the total number of skips per hour.
 - Wait until Pandora allows you to skip again.

UPDATE APP

- This version of the Pandora application is not supported.
 - Connect a device that has a compatible version of the Pandora application installed.

LOGIN ERROR

- Your Pandora account is not logged in.
 - Disconnect the cable from the device, and log in to your Pandora account. Then reconnect the device.

CHECK DEVICE

- Device error message displayed in the Pandora application.
 - Check the connected device.

PLEASE CREATE A STATION ON THE PHONE

- No station found.
 - Create a station in the Pandora application on your connected device.

SELECT STN

- No station selected.
 - Select a station.

NO BT DEVICE GO TO BT MENU TO REGISTER

- No Bluetooth device found.
 - Connect the unit and the device via Bluetooth.

CONN. FAILED PRESS BAND KEY TO RETRY

- Bluetooth connection failed.
 - Press **BAND** /  to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY

- Connection to the Pandora application failed.
 - Press **BAND** /  to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY

- Bluetooth connection lost.
 - Press **BAND** /  to make a connection again.

STATION FULL

- A new station cannot be added.
 - Delete an old station to open a spot for a new one.

CAN'T DELETE

- The station could not be deleted.
 - Run the same command for another station.

NO NETWORK

- The connected device is out of area.
 - Connect the device to a network.

NO SERVICE IN THIS COUNTRY

- The connected device is out of area.
 - Connect the device to a network.

STN DELETED

- The operation was disabled.
 - Run the same command for another station.

DAB tuner

ANTENNA ERROR

- The antenna connection is incorrect.
 - Check the antenna connection.
 - Turn the ignition switch OFF and back to ON again. If the message remains, contact your dealer or an authorized Pioneer Service Station for assistance.

SiriusXM Satellite Radio

CHECK ANTENNA

- The antenna cable may be either disconnected or damaged.
 - Check the antenna connection or replace if damaged.

CHECK TUNER

- The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.
 - Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.

NO SIGNAL

- The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.
 - Move your vehicle outdoors with a clear view of the southern sky.
 - Make sure that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside the vehicle.
 - Move the SiriusXM antenna away from any obstructions.

SUBSCRIPTION UPDATED

- This unit has detected a change in your SiriusXM subscription status.
 - Press any key to clear the message.

CH UNAVAIL

- The channel that you have requested is not available.
 - Check the SiriusXM channel lineup.

CHAN UNSUB

- The channel that you have requested is not included in your SiriusXM subscription package.
 - Check the content of your SiriusXM subscription package.

CH LOCKED

- The channel has been locked by the Parental Control function.
 - Set [LOCKED CH] to [OFF] or [CLEAR ALL] to [YES] in the FUNCTION settings.

NO TUNEMIX CH

- There is only one music in the band.
 - Select a band with two or more channels.
 - Add more music channels to the current band.

A

B

C

D

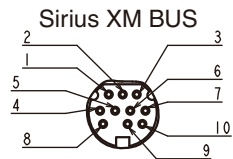
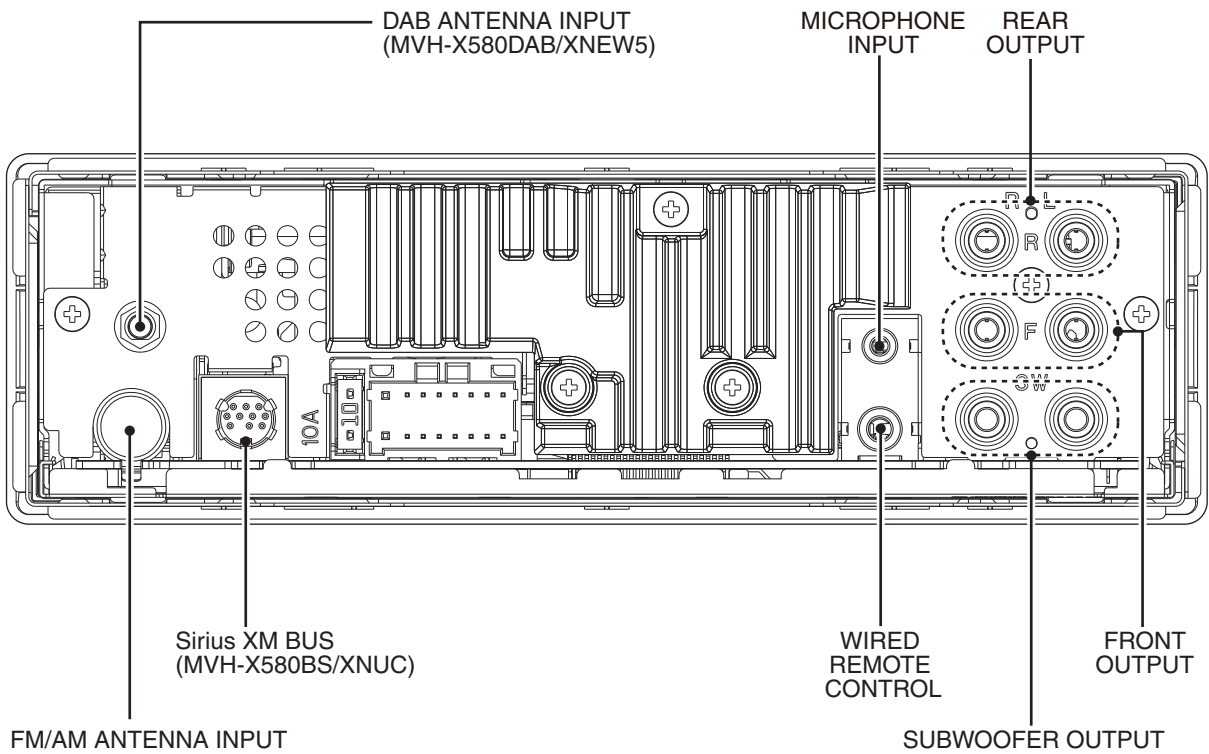
E

F

1 2 3 4

5.3 CONNECTOR FUNCTION DESCRIPTION

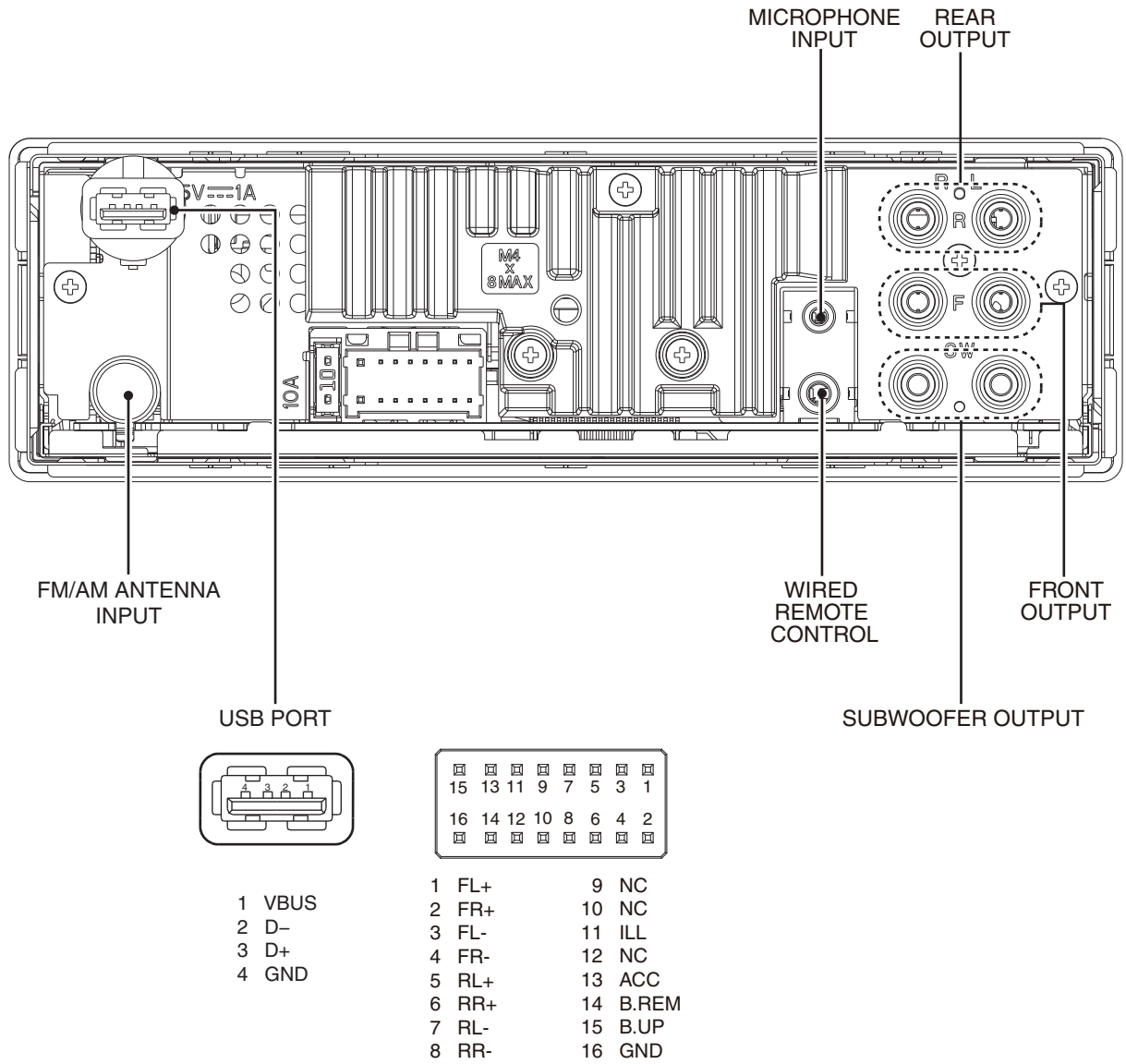
MVH-X580BS/XNUC
MVH-X580DAB/XNEW5
MVH-X580BT/XNEW5



- 1 SXiL
- 2 SXiT_X
- 3 NC
- 4 SXi_R
- 5 SXi_G
- 6 SXi_{RX}
- 7 NC
- 8 GND
- 9 SXi_{PW}
- 10 SXi_{PW}

15	13	11	9	7	5	3	1
16	14	12	10	8	6	4	2

- | | |
|-------|----------|
| 1 FL+ | 9 NC |
| 2 FR+ | 10 NC |
| 3 FL- | 11 ILL |
| 4 FR- | 12 NC |
| 5 RL+ | 13 ACC |
| 6 RR+ | 14 B.REM |
| 7 RL- | 15 B.UP |
| 8 RR- | 16 GND |



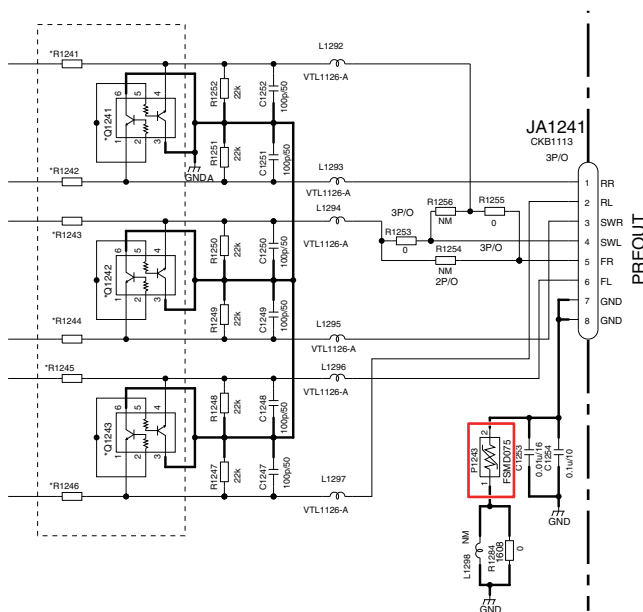
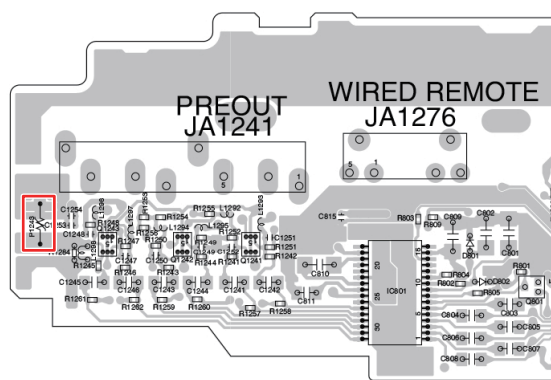
5.4 FUSE (POLY SWITCH) CHECK

● No sounds and display output of external unit (the condition when the fuse is blown (poly switch is working))

- A This product may receive excessive current if the power line connection of the external product is incorrect, such as Ground connection failure.
The poly switch P1243 on TUNER AMP UNIT is used to protect this product from this excessive current.
Even though poly switch is working to cut the circuit, the sounds of Pre-out output and AUX input are output properly and also other functions work correctly.
However, you cannot turn on the external product connected to this product as the power is not supplied if the poly switch is working to cut the circuit.
(The symptom in this case is the sounds of external product are not output on this product when the external product is connected on a vehicle.)

If you find the symptoms above, check whether or not the poly switch is working to cut the circuit.

If there is any problem (you cannot turn on the power of external unit), check the power connection (Ground) of external unit.

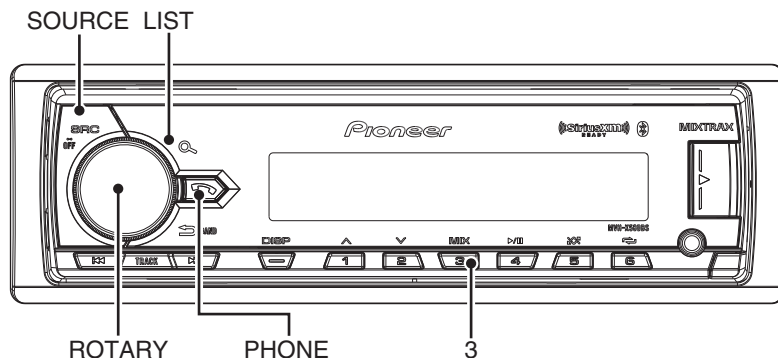


6. SERVICE MODE

6.1 DISPLAY TEST MODE 1

[How to enter Test mode]

Press and hold "PHONE" and "LIST" buttons together, and turn BUP and ACC on.

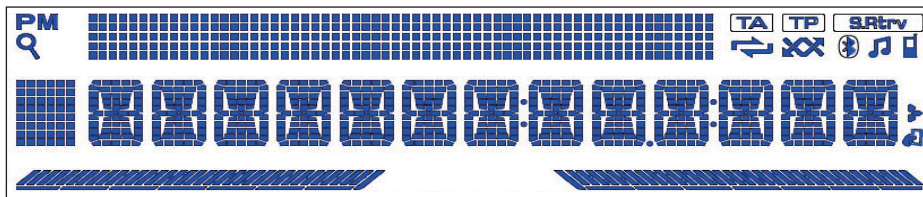


		Grille condition	
Confirmation item	Operate	LCD	ILM
All light up	PHONE + LIST	States 1	Red
All light off	SOURCE	States 2 (No light)	No light
Button feeling (and ILM light)	Button 3	States 3	Blue

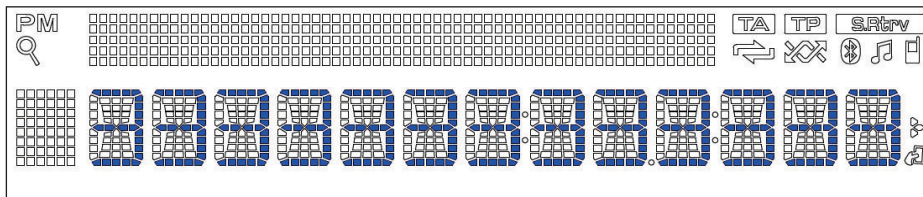
LCD States

- Status 1: All light up. Refer to "Draw 1" below for detail.
- Status 2: All light off
- Status 3: Refer to "Draw 2" below for deference among the models.

Draw 1



Draw 2



The information such as the system microcomputer version is checked.

A [How to enter Test mode]

Press and hold "1" and "3" buttons together, and turn BUP and ACC on.

[Operation key]

Operation key	Processing	Remarks
① + ③	Enter display test mode Switch to next test mode	

B

[Test items]

Start display test mode.
Press and hold "1" and "3" buttons together, and turn
BUP and ACC on.

System Version information is displayed.

S \$ \$ \$ \$ # # #

\$ PD number For PEA010A, "010A" is displayed
System microcomputer version For Ver.7.01, "701" is displayed

Switching to next display
by pressing "①" + "③" buttons together.

Display is normally updated

Product operation is performed as usual, in appearance.
Switching to next display
by pressing "①" + "③" buttons together.

Display update is stopped

The screen gets still when entering this item.
Switching to next display
by pressing "①" + "③" buttons together.

Key Illumination	Icon
Off	All off
On (an initial value)	All off
On (an initial value or setting value of default menu)	All off
On (an initial value or setting value of default menu)	On (lighting condition of normal times)
On (an initial value or setting value of default menu)	On (state when entering test mode)

* Initial condition

6.3 SOFTWARE VERSION UP METHOD

Outline

This product will upgrade systems using a USB memory.

[Operating Conditions]

BU P ON + ACC ON

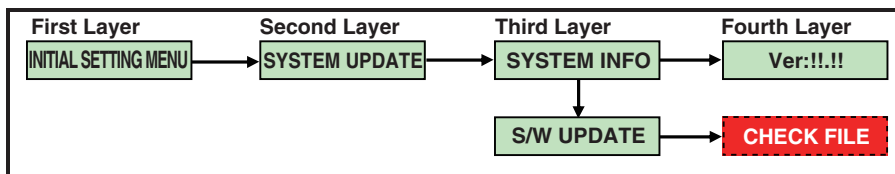
[Description]

Please refer to the following contents at procedures of upgrades and flow. It contains Bluetooth upgrades.
In case of finishing software upgrading and displaying [COMPLETED], the setting is cleared and set to initial state same as System Reset Function.

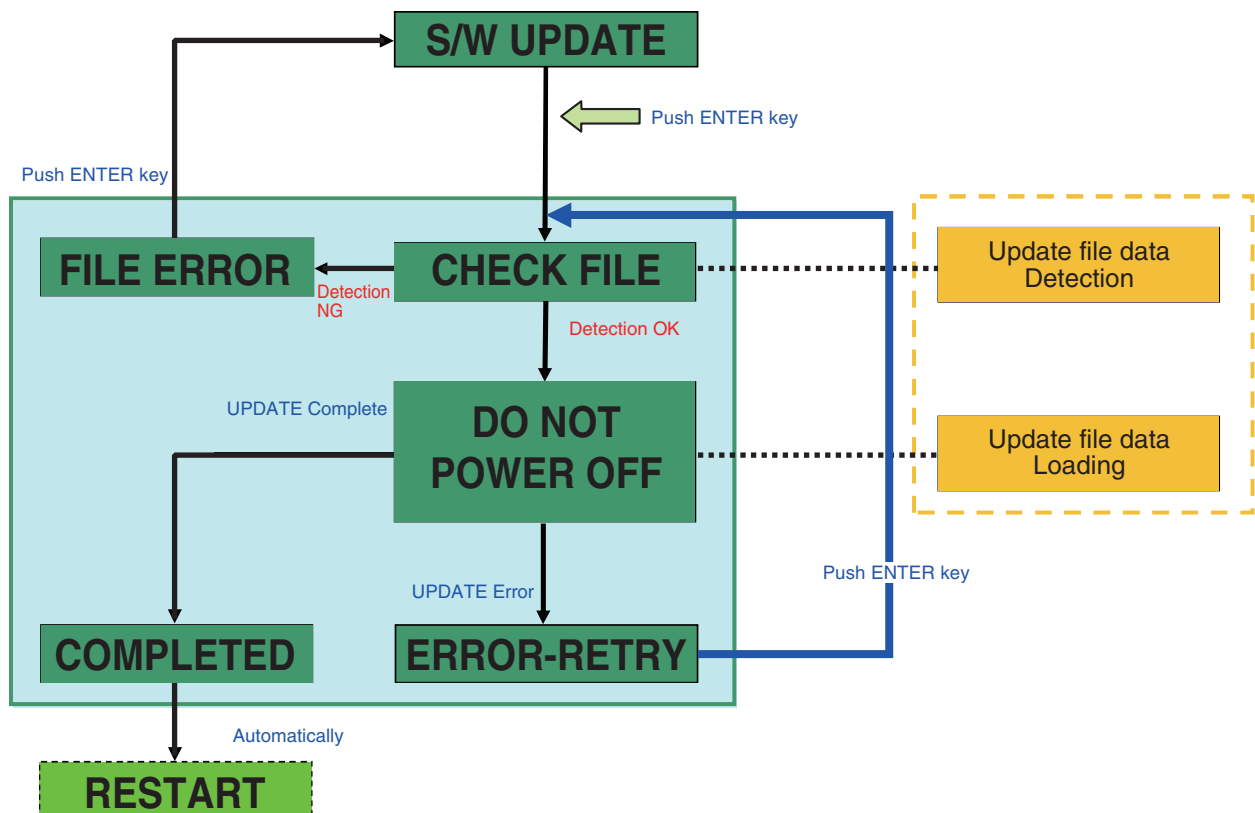
Procedure

1. Set BUP ON and ACC ON
2. Save upgrade data to USB memory and insert USB memory to product.
* File extension : *.scd
3. Enter [INITIAL SETTING MENU], select [S/W UPDATE] and push ENTER key. Wait [CHECK FILE] state.
4. The unit checks upgrade data file and starts updating automatically.
5. Wait until the end of updating. (Alternately displaying [DO NOT] and [POWER OFF] 5-second intervals.)
6. If update is completed, displaying [COMPLETED] and restarting automatically.

Layers



Display Transition Diagram



7. DISASSEMBLY

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

●Removing the Panel Assy (Fig.1)

- ➡1 Release the two latches.
- ➡2 Release the two latches and then remove the Panel Assy.

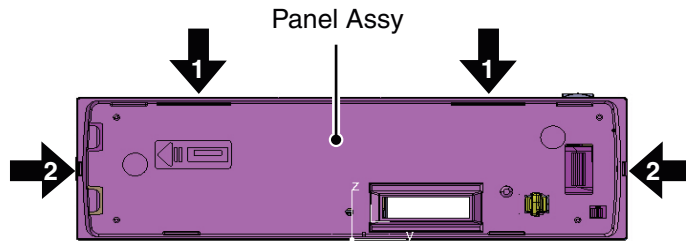
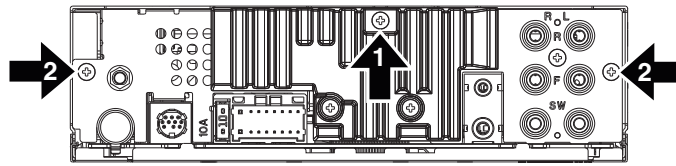


Fig.1

●Removing the Tuner Amp Assy (Fig.2)

- ➡1 Remove the screw.
- ➡2 Remove the two screws.



The Chassis side is made a bottom.

- ➡3 Push the area and remove the two hooks.

- ➡4 Slide the Tuner Amp Assy in the direction of the arrow and then remove the Tuner Amp Assy.

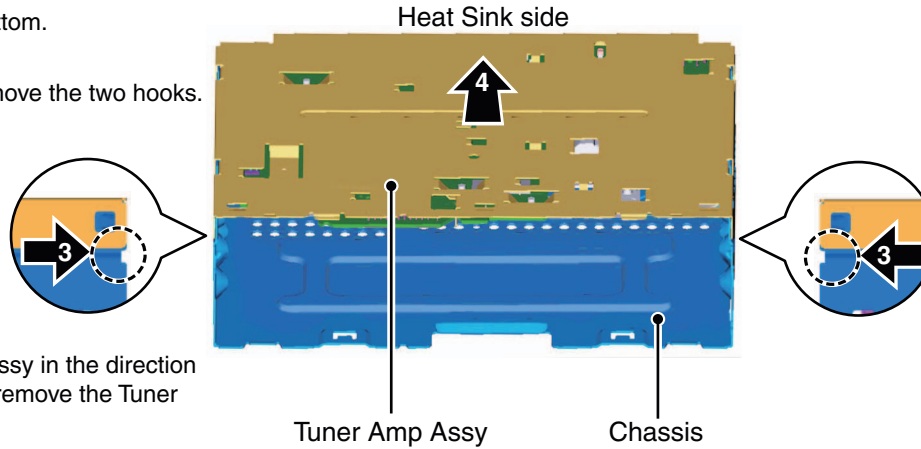


Fig.2

●Removing the Tuner Amp Unit (Fig.3)

- ➡1 Remove the two screws and then remove the Tuner Amp Unit.

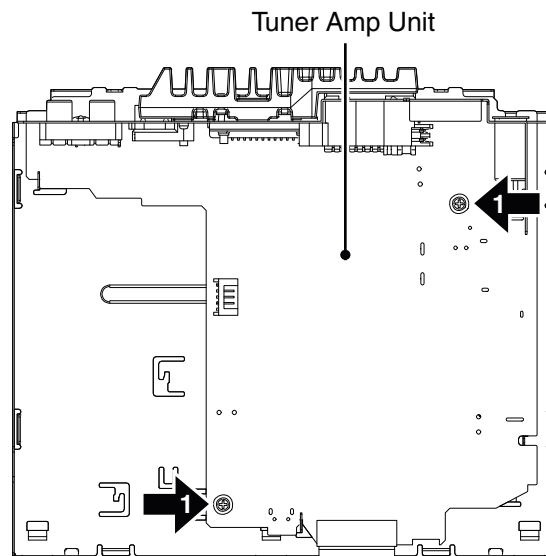


Fig.3

● Disassembling the Panel Part (Fig.4, 5)

1. Remove the arm while bending the rib of the panel upward.

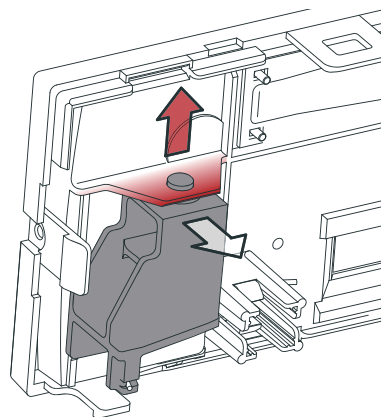


Fig.4

2. Press the upside hook and the bottom side hook of the button at the same time, and pull out the button.

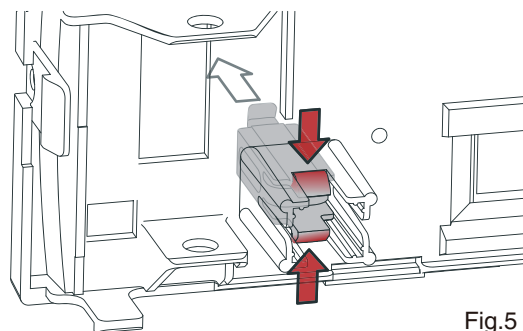


Fig.5

● Assembling the Panel Part (Fig.6, 7, 8)

1. Attach the button from the front side of the panel.

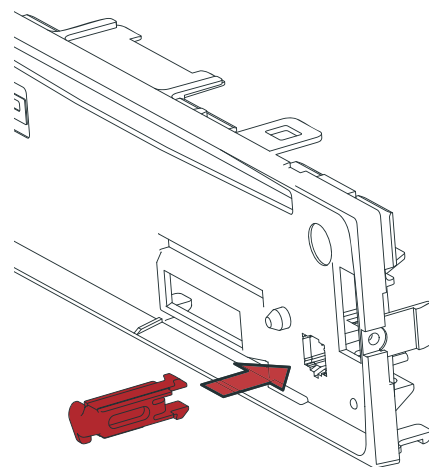


Fig.6

2. Attach the spring to the arm as shown in the figure.

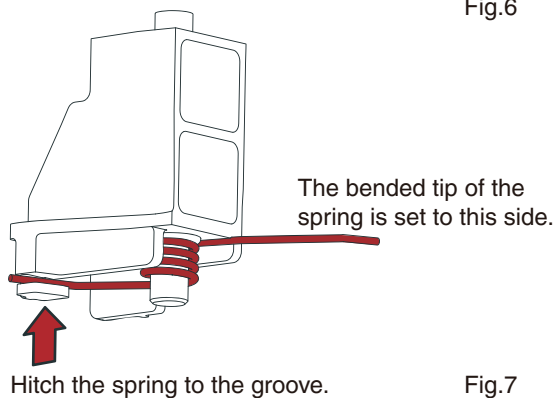


Fig.7

3. Fit the spring in the groove at the position shown in the figure.

4. Fit the boss on the lower side of the arm in the lower hole of the panel, and then warp the rib on the panel in the direction shown in the figure and fit the boss of the arm in the panel.

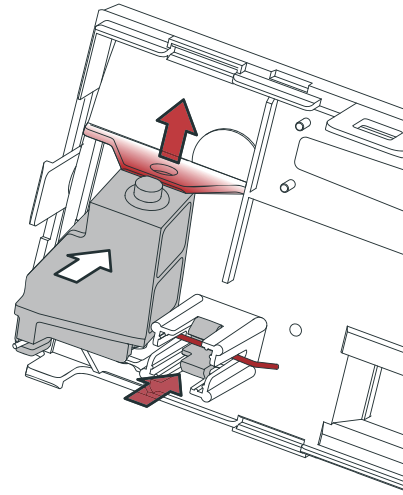


Fig.8

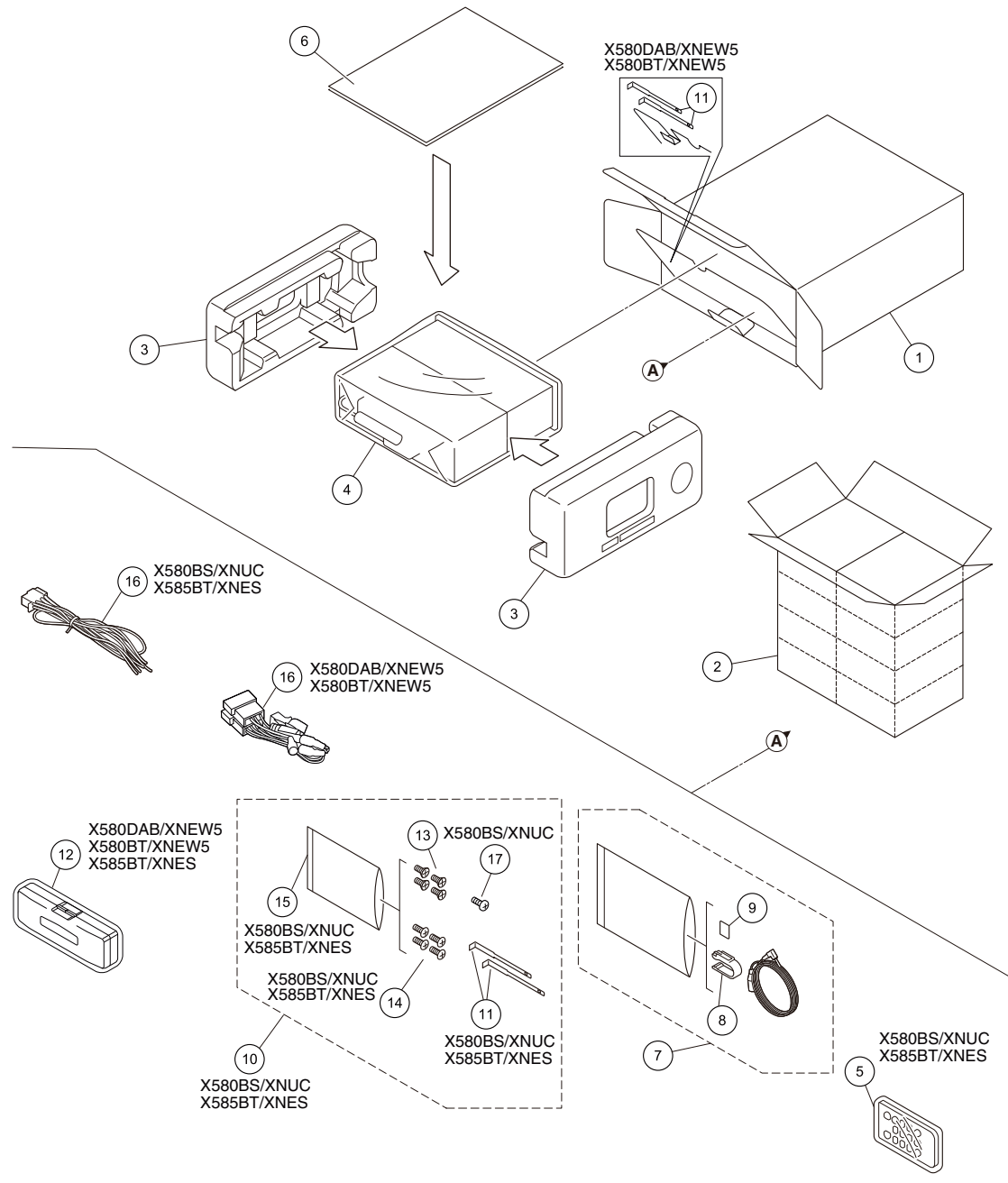
8. EACH SETTING AND ADJUSTMENT

There is no information to be shown in this chapter.

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 PACKING



(1) PACKING SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Unit Box	See Contrast table (2)	10	Accessory Assy	See Contrast table (2)
2	Contain Box	See Contrast table (2)	11	Handle	QNC3021
3	Protector	CHP4594	12	Case Assy	See Contrast table (2)
4	Polyethylene Bag	See Contrast table (2)	13	Screw	See Contrast table (2)
5	Card Remote Control Unit	See Contrast table (2)	14	Screw	See Contrast table (2)
* 6-1	Warranty Card	See Contrast table (2)	* 15	Polyethylene Bag	See Contrast table (2)
6-2	Owner's Manual	See Contrast table (2)	16	Cord Assy	See Contrast table (2)
7	Microphone Assy	CPM1109	17	Screw	See Contrast table (2)
8	Holder	CZN7192			
9	Cushion	CZN7193			

(2) CONTRAST TABLE

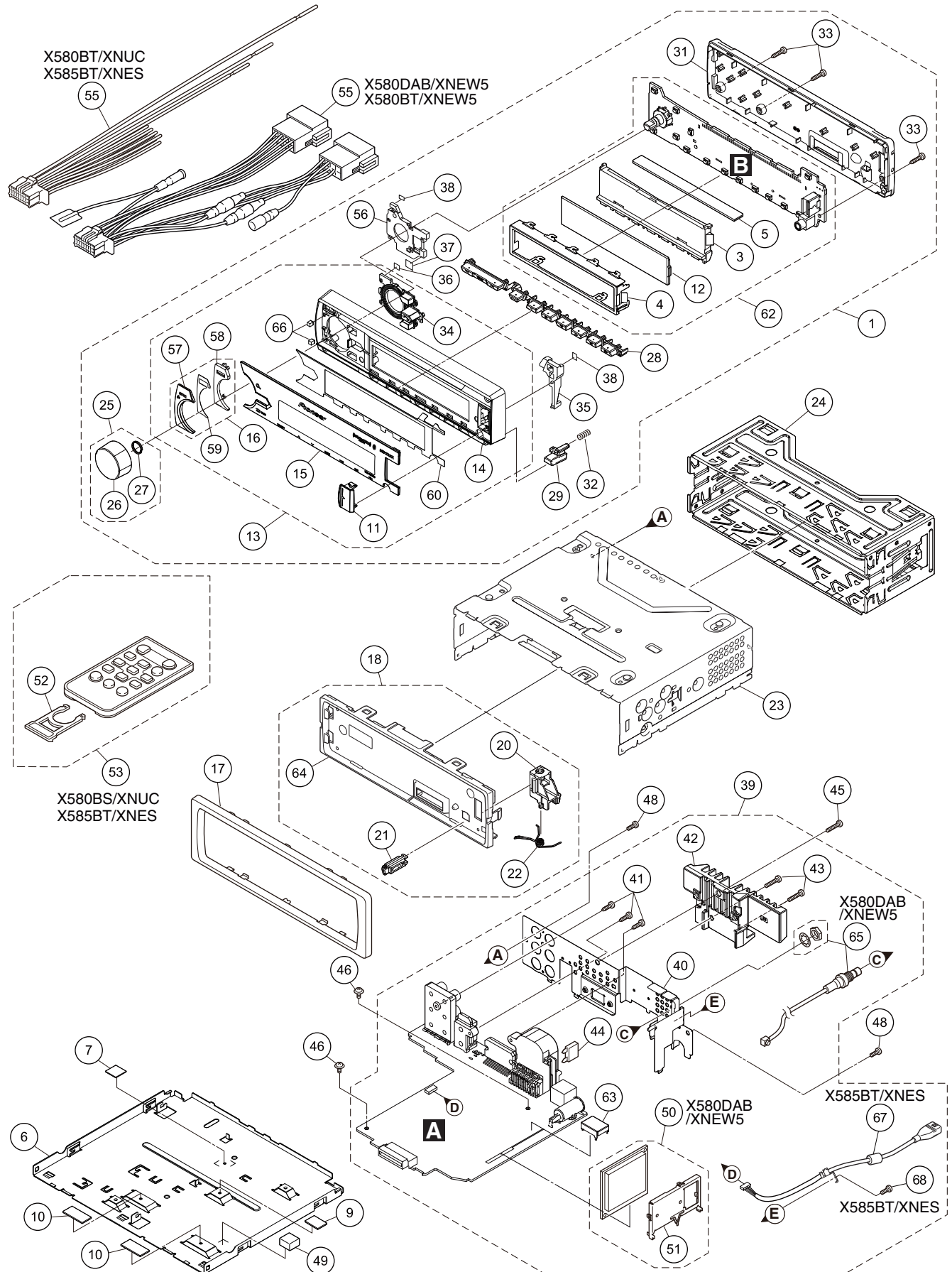
MVH-X580BS/XNUC, MVH-X580DAB/XNEW5, MVH-X580BT/XNEW5 and MVH-X585BT/XNES are constructed the same except for the following:

Mark	No.	Description	MVH-X580BS/ XNUC	MVH-X580DAB/ XNEW5	MVH-X580BT/ XNEW5	MVH-X585BT/ XNES
	1	Unit Box	QHG4018	QHG3883	QHG3884	QHG3887
	2	Contain Box	QHL4018	QHL3883	QHL3884	QHL3887
	4	Polyethylene Bag	CEG1173	QEG3001	QEG3001	QEG3001
	5	Card Remote Control Unit	QXE1044	Not used	Not used	QXE1044
*	6-1	Warranty Card	QRY3001	CRY1376	CRY1376	Not used
	6-2	Owner's Manual	QRD3346	QRD3345	QRD3345	QRD3347
	10	Accessory Assy	QEA3337	Not used	Not used	QEA3338
	12	Case Assy	Not used	QXA3129	QXA3129	QXA3129
	13	Screw	CBA2383	Not used	Not used	Not used
	14	Screw	CBA2384	Not used	Not used	CBA2384
*	15	Polyethylene Bag	CEG1160	Not used	Not used	CEG1160
	16	Cord Assy	CDP1484	QDP3072	QDP3072	CDP1484
	17	Screw	BPZ20P060FTC	Not used	Not used	Not used

Owner's Manual, Installation Manual

Part No.	Language
QRD3345	English, French, Italian, Spanish(Espanol), German, Dutch, Russian
QRD3346	English, French, Spanish(Espanol)
QRD3347	English, Spanish(Espanol), Portuguese(B), Traditional Chinese, Arabic, Persian

9.2 EXTERIOR



(1) EXTERIOR SECTION PARTS LIST

	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>		<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
A	1	Detach Grille Assy	See Contrast table (2)		36	Sheet	QNM3143
	2				37	Sheet	QNM3144
	3	Lighting Conductor	QNV3120		38	Sheet	QNM3145
	4	Holder	QNC3120		39	Tuner Amp Unit	See Contrast table (2)
	5	Rubber Connector	QNV3126		40	Holder	See Contrast table (2)
	6	Case	QNB3034		41	Screw	BPZ26P080FTC
	7	Heat Conductor Sheet	QNM3165		42	Heat Sink	See Contrast table (2)
	8				43	Screw	BSZ26P120FTC
	9	Heat Conductor Sheet	QNM3164		44	Fuse(10 A)	YEK5001
	10	Heat Conductor Sheet	QNM3135	⚠	45	Screw	BSZ26P120FTC
B	11	Door	QAT3021		46	Screw	ASZ26P050FTC
	12	Segment LCD(V1801)	CAW2057		47		
	13	Grille Unit	See Contrast table (2)		48	Screw	BSZ26P060FTC
	14	Grille	See Contrast table (2)		49	Gasket	QNM3174
	15	Plate	See Contrast table (2)		50	WWR Tuner Unit(U951)	See Contrast table (2)
	16	Button Unit (SRC)	QXA4599		51	Holder	See Contrast table (2)
	17	Panel	QNS3576		52	Cover	See Contrast table (2)
	18	Panel Assy	QXA4717		53	Card Remote Control Unit	See Contrast table (2)
	19				54		
	20	Arm	QNV3025		55	Cord Assy	See Contrast table (2)
C	21	Button	QNV3026		56	Lighting Conductor	QNV3117
	22	Spring	QBH3001		57	Plate	QNS3967
	23	Chassis	CNA3373		58	Holder	QNS3968
	24	Holder	QNC3020		59	Double Side Tape	QNM3141
	25	Knob Unit	See Contrast table (2)		60	Double Side Tape	QNM3140
	26	Knob	See Contrast table (2)		61		
	* 27	Spring	YBL5010		62	Keyboard Unit	See Contrast table (2)
	28	Button(TRACK, 1-6)	QAC3222		63	Shield Case	QNC3107
	29	Button(DETACH)	QAC3224		64	Panel	QNS4072
	30				65	ANT Pigtail Cable Assy	See Contrast table (2)
D	31	Cover	QNS3965		66	Cushion	QNM3142
	32	Spring	CBH2210		67	USB Cable	See Contrast table (2)
	33	Screw	BPZ20P100FTC		68	Screw	See Contrast table (2)
	34	Button(PHONE)	QAC3220				
	35	Lighting Conductor	QNV3118				

(2) CONTRAST TABLE

MVH-X580BS/XNUC, MVH-X580DAB/XNEW5, MVH-X580BT/XNEW5 and MVH-X585BT/XNES are constructed the same except for the following:

Mark	No.	Description	MVH-X580BS/ XNUC	MVH-X580DAB/ XNEW5	MVH-X580BT/ XNEW5	MVH-X585BT/ XNES
E	1	Detach Grille Assy	QXA4912	QXA4634	QXA4635	QXA4638
	13	Grille Unit	QXA4904	QXA4592	QXA4593	QXA4596
	14	Grille	QNS3970	QNS3963	QNS3970	QNS3970
	15	Plate	QNS4100	QNS3964	QNS3978	QNS3981
	25	Knob Unit	QXA4712	QXA4713	QXA4713	QXA4712
F	26	Knob	QAA3056	QAA3057	QAA3057	QAA3056
	39	Tuner Amp Unit	QWM4157	QWM4155	QWM4156	QWM4158
	40	Holder	QNC3112	QNC3115	QNC3113	QNC3117
	42	Heat Sink	QNR3010	QNR3010	QNR3010	QNR3002
	50	WWR Tuner Unit(U951)	Not used	CWE2534	Not used	Not used
	51	Holder	Not used	CND7288	Not used	Not used

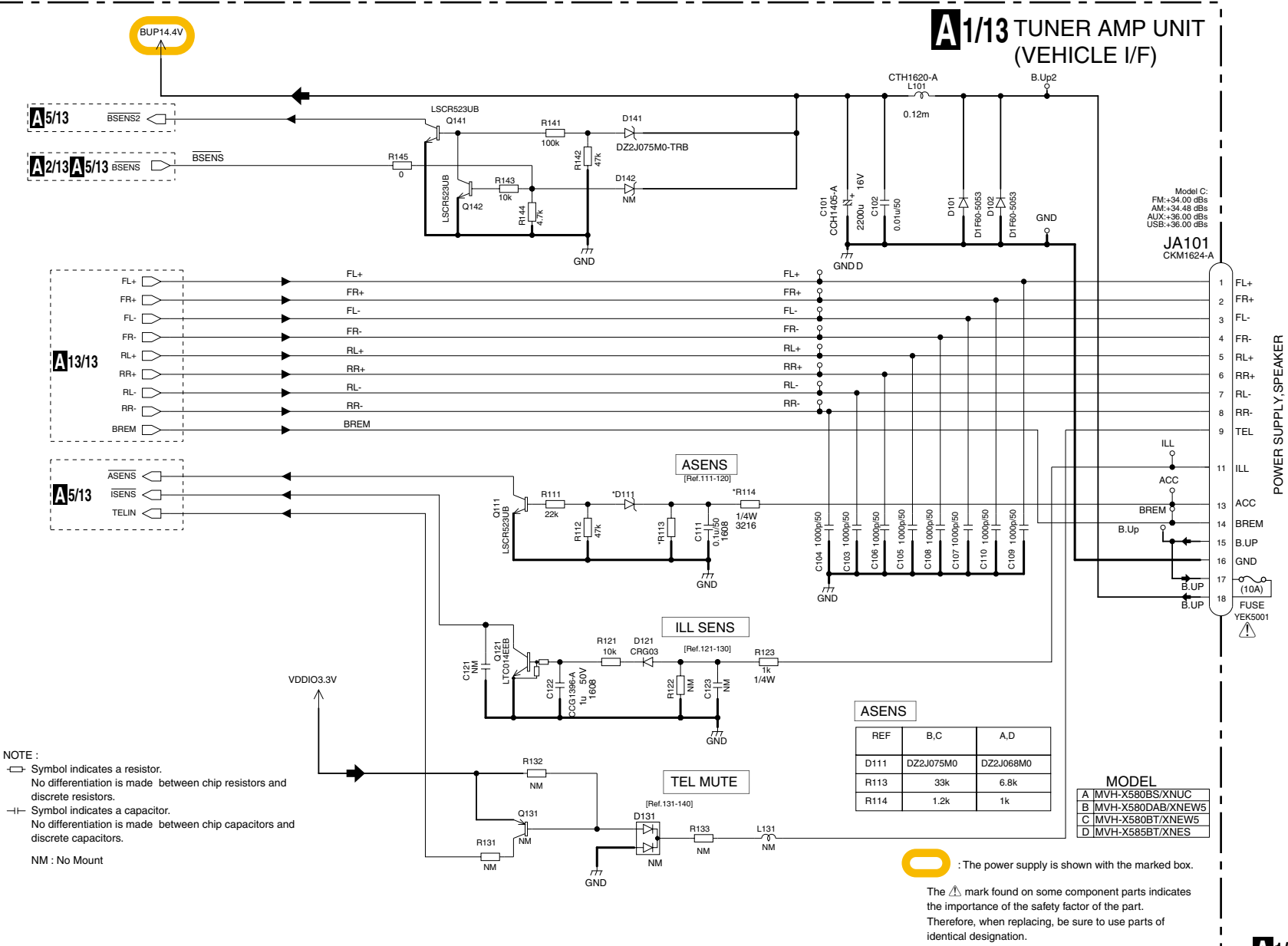
Mark	No.	Description	MVH-X580BS/ XNUC	MVH-X580DAB/ XNEW5	MVH-X580BT/ XNEW5	MVH-X585BT/ XNES
	52	Cover	CNS7068	Not used	Not used	CNS7068
	53	Card Remote Control Unit	QXE1044	Not used	Not used	QXE1044
	55	Cord Assy	CDP1484	QDP3072	QDP3072	CDP1484
	62	Keyboard Unit	QWM4243	QWM4242	QWM4242	QWM4243
	65	ANT Pigtail Cable Assy	Not used	QXA4122	Not used	Not used
	67	USB Cable	Not used	Not used	Not used	QDP3089
	68	Screw	Not used	Not used	Not used	BSZ26P060FTC

10. SCHEMATIC DIAGRAM

10.1 TUNER AMP UNIT (VEHICLE I/F)

10. SCHEMATIC DIAGRAM

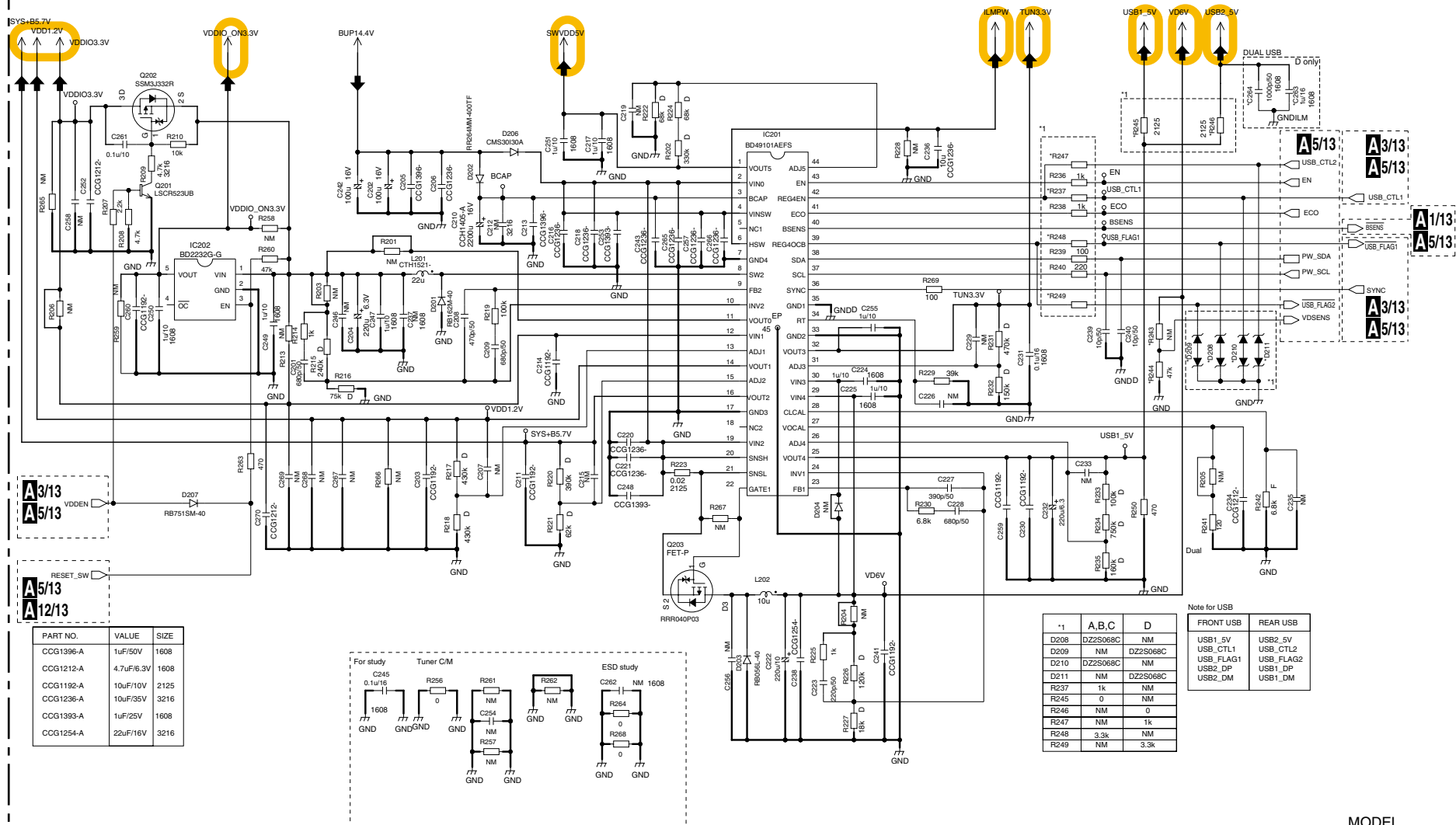
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



A1/13

A1/13

A2/13 TUNER AMP UNIT (SYSTEM REGULATOR)



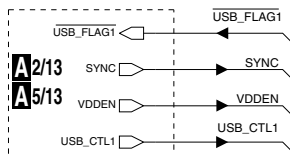
*1	A,B,C	D
D208	DZ2S068C	NM
D209	NM	DZ2S068C
D210	DZ2S068C	NM
D211	NM	DZ2S068C
R237	1k	NM
R245	0	NM
R246	NM	0
R247	NM	1k
R248	3.3k	NM
R249	NM	3.3k

FRONT USB	REAR USB
USB1_5V	USB2_5V
USB_CTL1	USB_CTL2
USB_FLAG1	USB_FLAG2
USB2_DP	USB1_DP
USB2_DM	USB1_DM

MODEL	
A	MVH-X580BS/XNUC
B	MVH-X580DAB/XNEW5
C	MVH-X580BT/XNEW5
D	MVH-X585BT/XNES

A3/13 TUNER AMP UNIT (DDCON)

MODEL	
A	MVH-X580BS/XNUC
B	MVH-X580DAB/XNEWS
C	MVH-X580BT/XNEWS
D	MVH-X585BT/XNES



USB1.5V

DDC5V

DDC 5V

BUP14.4V

VDDEN

SYNC

B,D

[Ref.301-320]

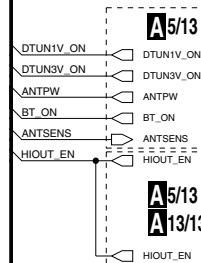
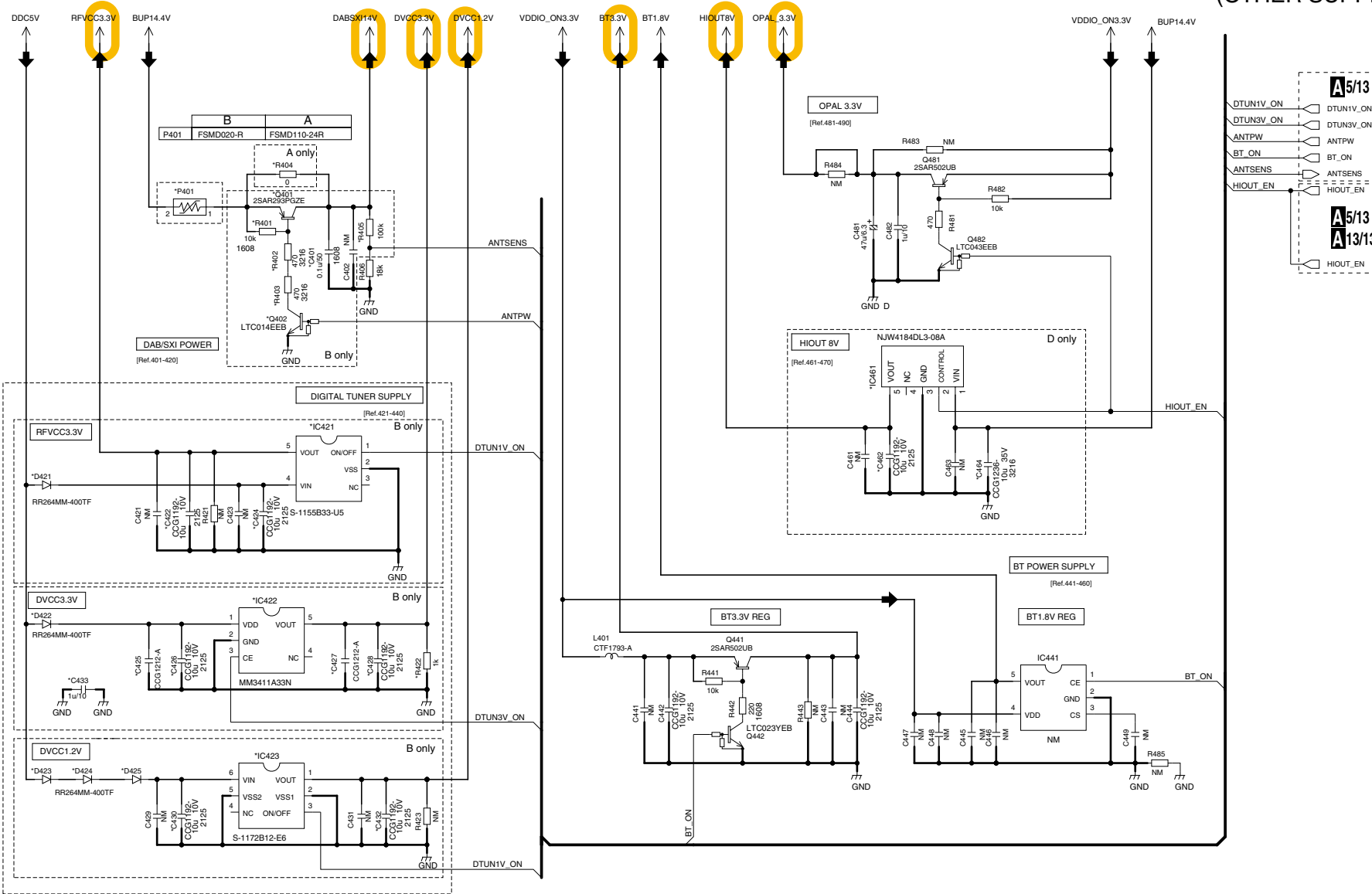
D only

[Ref.321-330]

MLV0402ES012V0010N

10.4 TUNER AMP UNIT (OTHER SUPPLY)

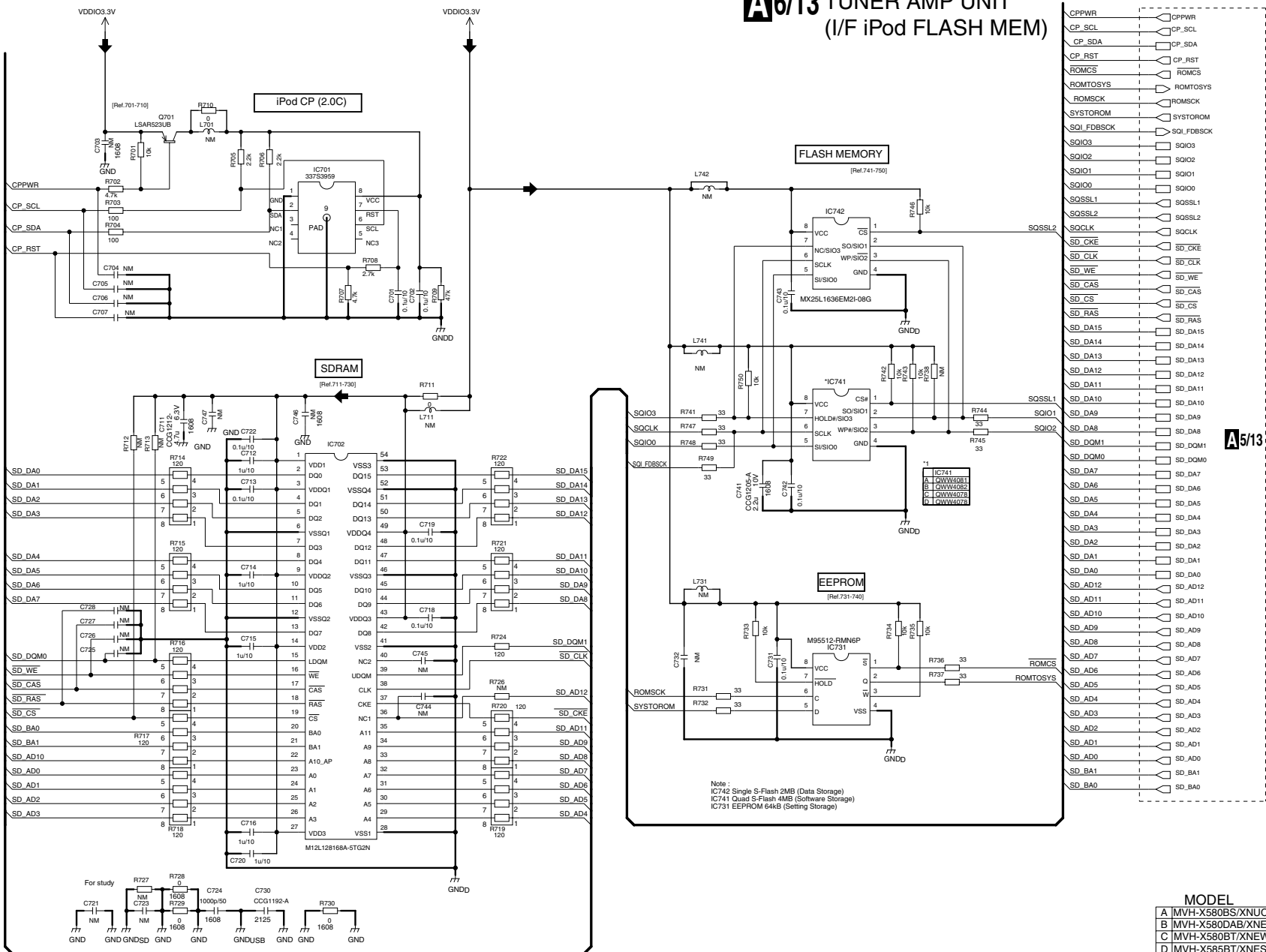
A4/13 TUNER AMP UNIT (OTHER SUPPLY)



A5/13



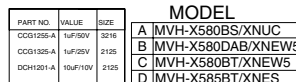
A6/13 TUNER AMP UNIT (I/F iPod FLASH MEM)



MODEL
A MVH-X580BS/XNUC
B MVH-X580DAB/XNEW5
C MVH-X580BT/XNEW5
D MVH-X585BT/XNES

MVH-X580BS/XNUC

A



A	MVH-X580BS/XNUC
B	MVH-X580DAB/XNEW5
C	MVH-X580BT/XNEW5
D	MVH-X580BT/XNEC

A

A

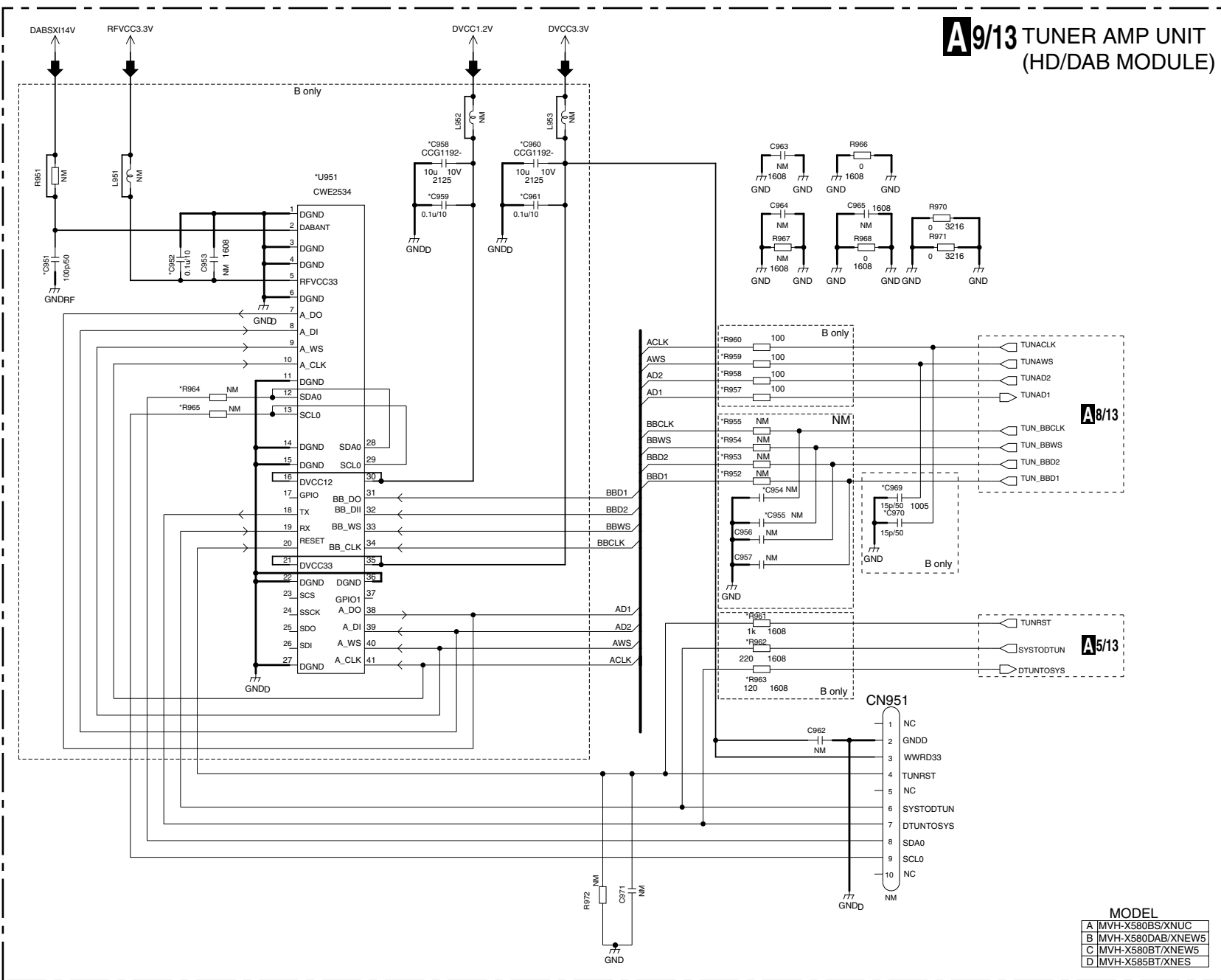
A 5/13



PERMITTED		
	D	A,B,C
L859	LCTAW3R3J2520	NM
L860	NM	LCYC150K1608
R853	100	390

A	MVH-X580BS/XNUC
B	MVH-X580DAB/XNEW5
C	MVH-X580BT/XNEW5
D	MVH-X585BT/XNES

10.9 TUNER AMP UNIT (HD/DAB MODULE)

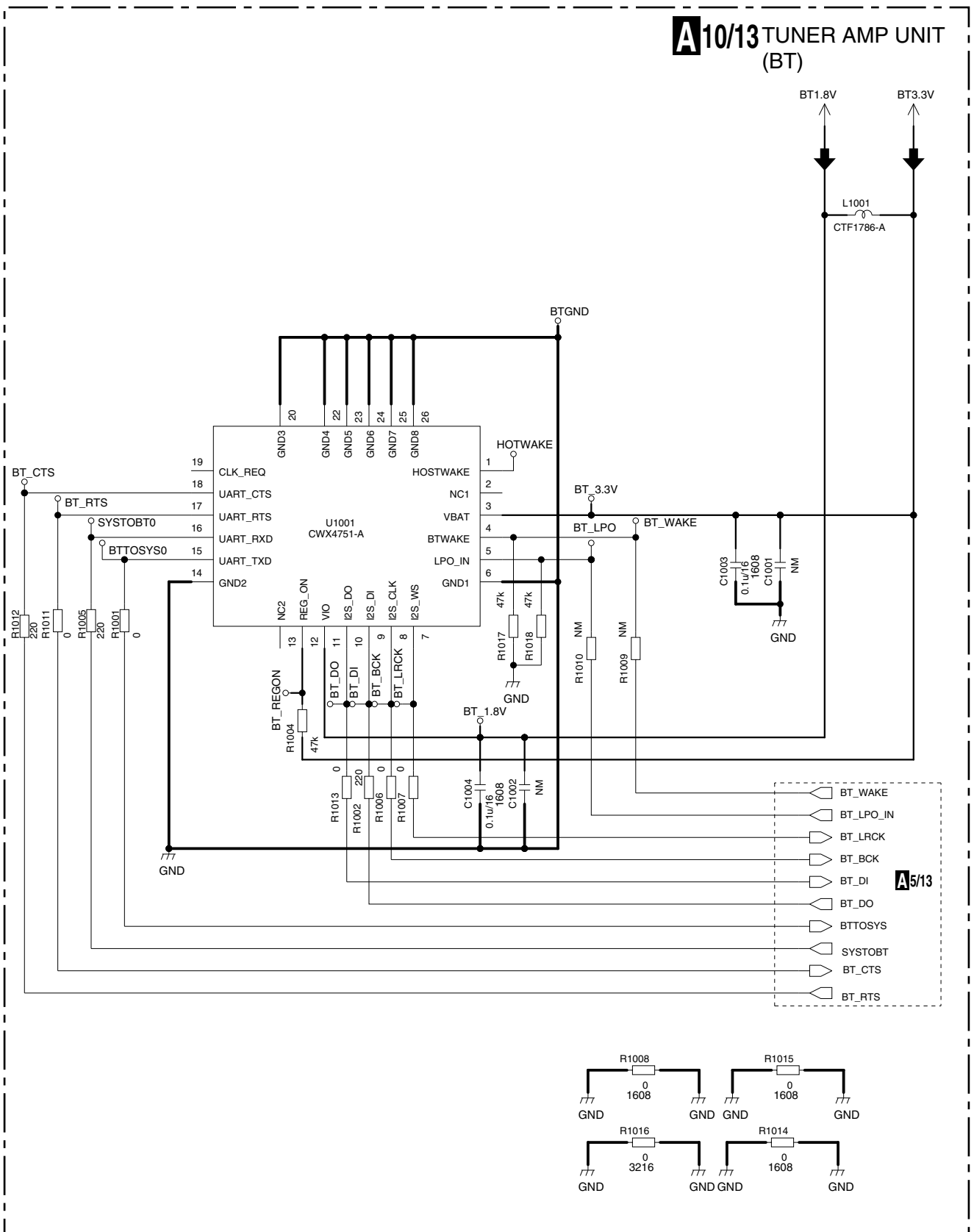


A9/13

A9/13

MVH-X580BS/XNUC

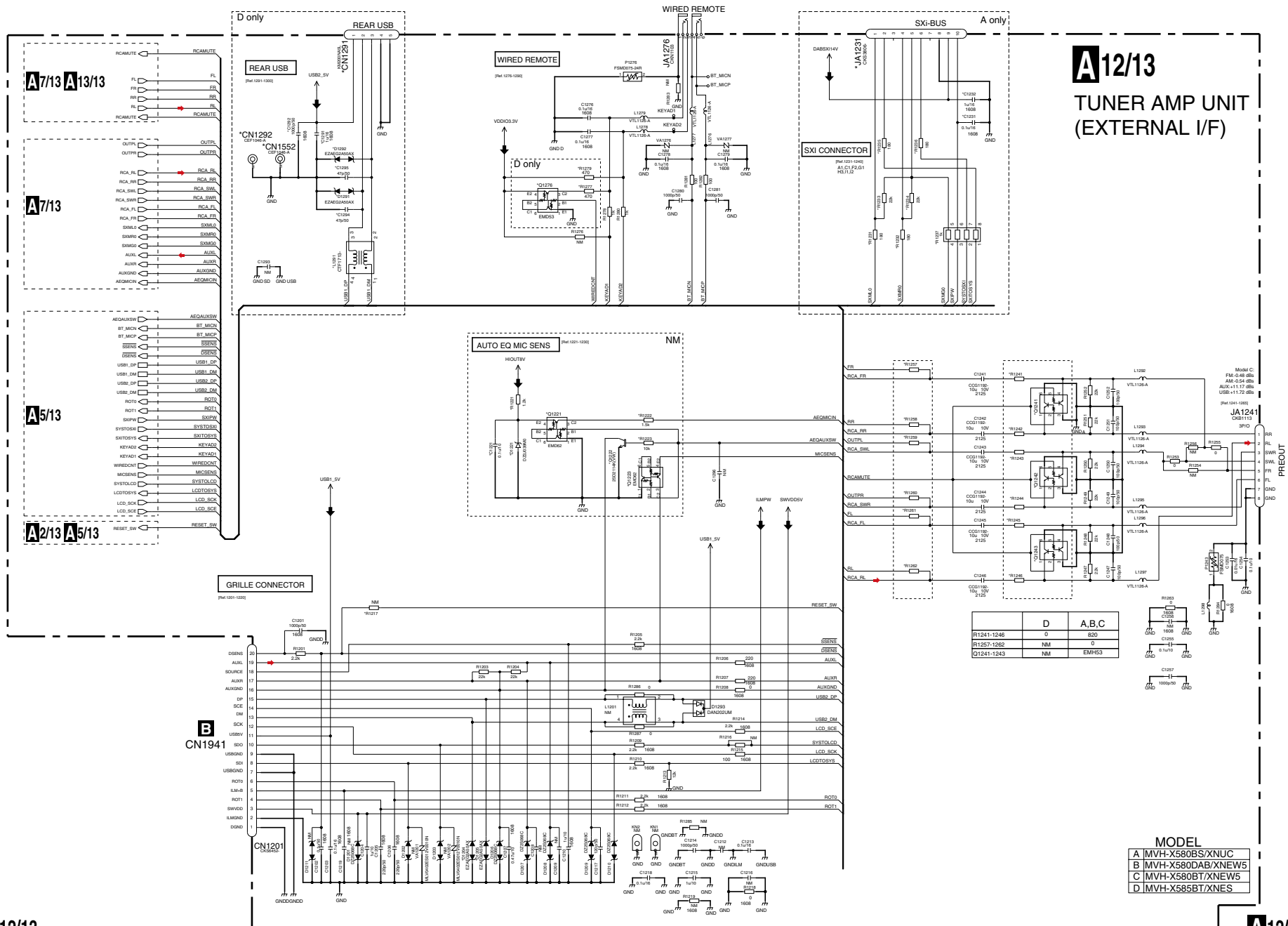
10.10 TUNER AMP UNIT (BT)

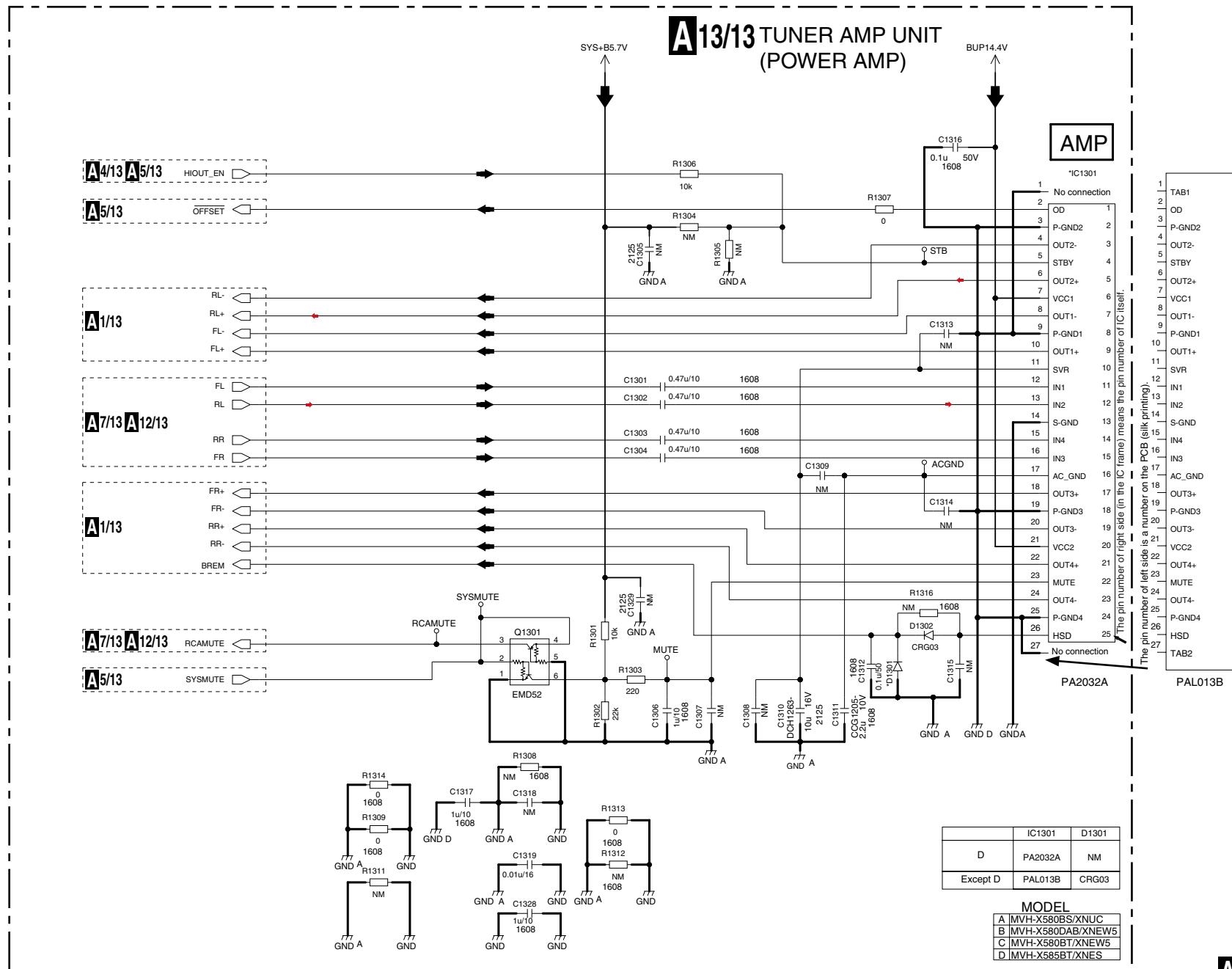


4

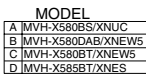
F







A12/13
CN1201



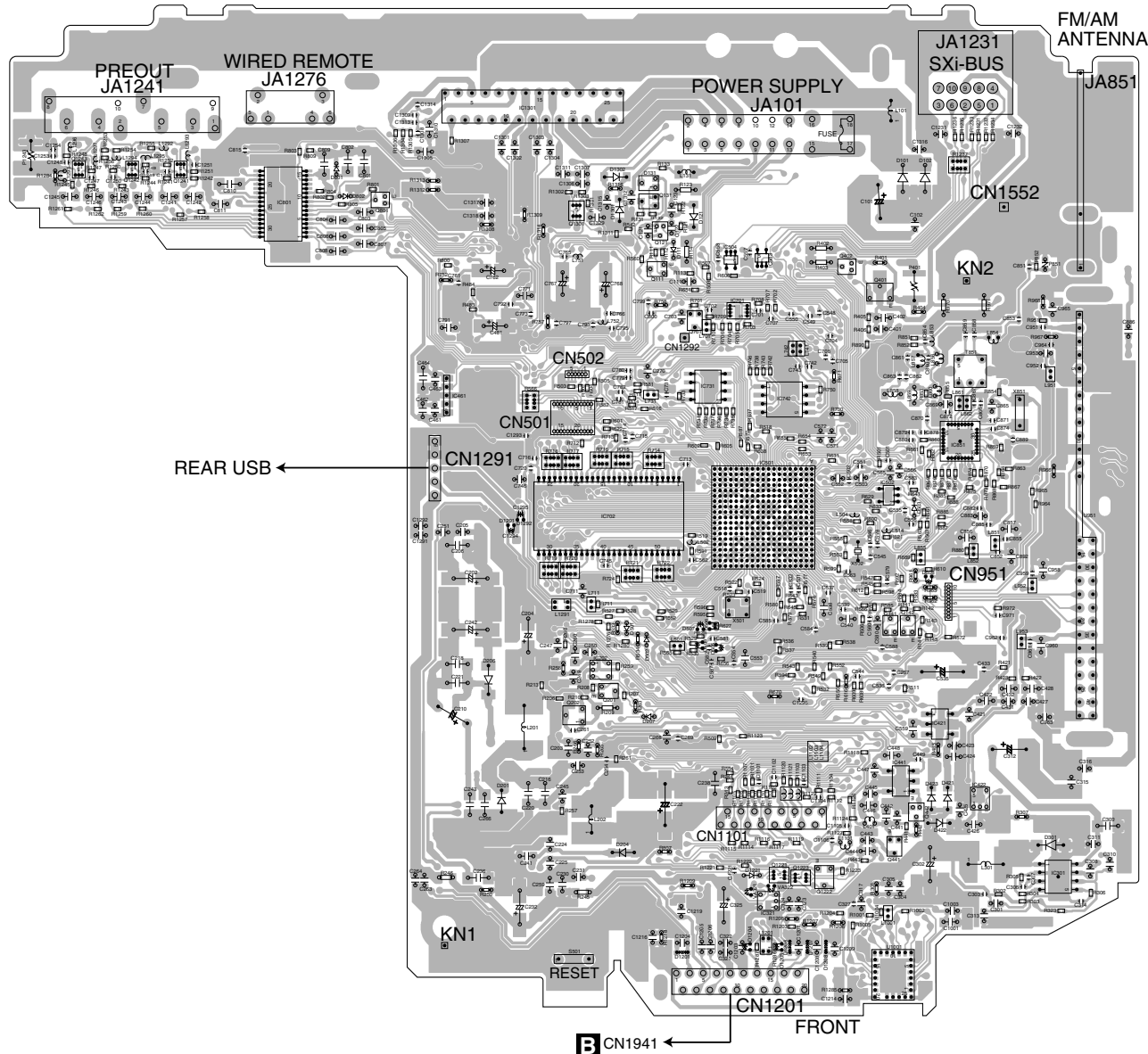
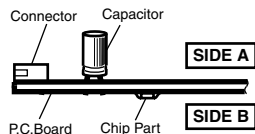
11. PCB CONNECTION DIAGRAM

A TUNER AMP 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

11. PCB CONNECTION DIAGRAM 11.1 TUNER AMP UNIT

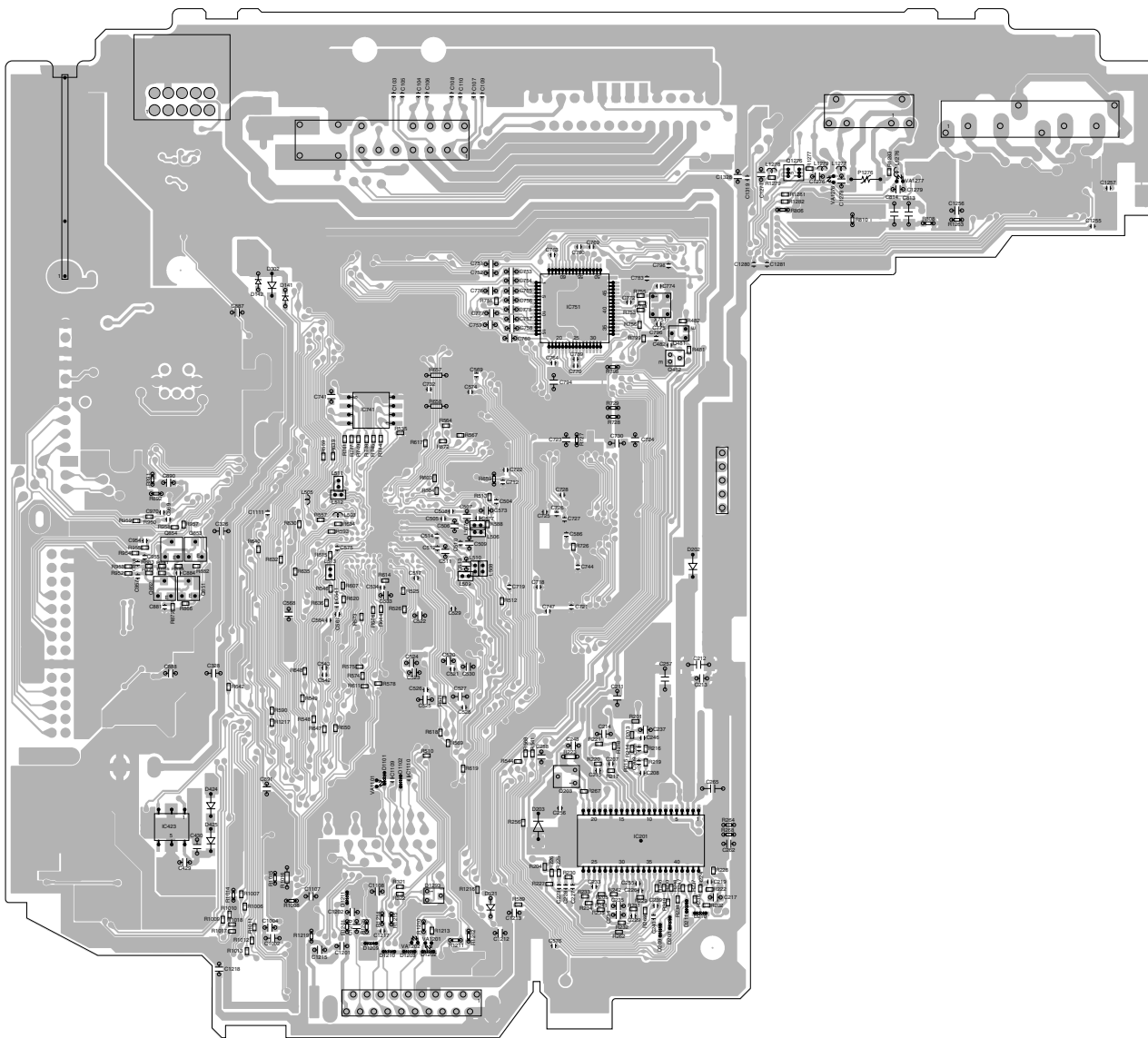
A

B

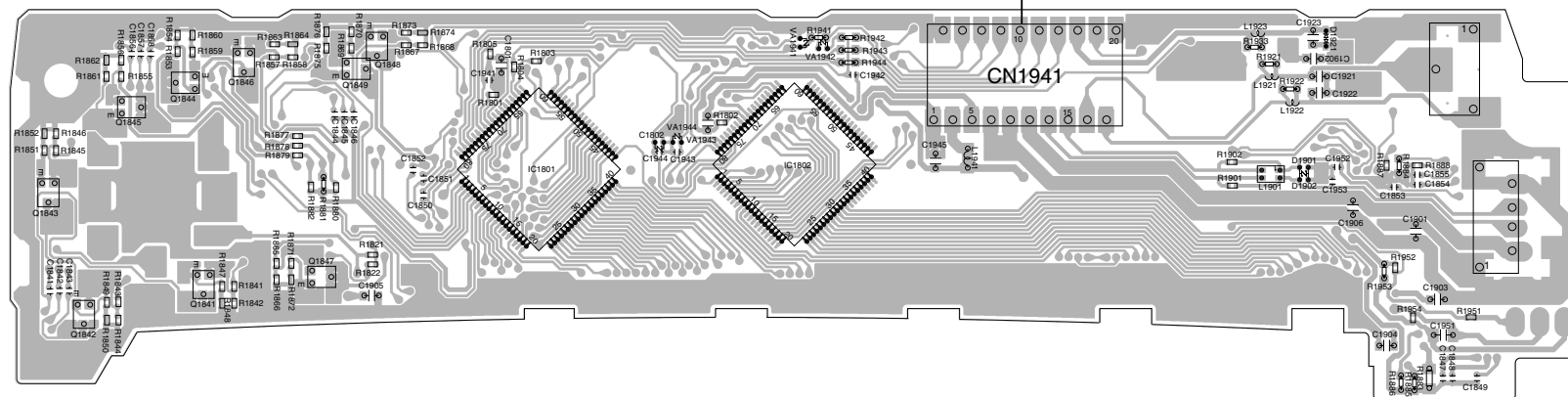
A

A

SID



B KEYBOARD UNIT



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

$$RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$$

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

CKS..... CCS..... CSZS.....

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

[illegible]

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	D 302 Diode(B,D)	RB060M-30	P 401 Poly Switch(A)	FSMD110-24R
	D 321 Switching Diode(D)	1SS355VM	P 401 Poly Switch(B)	FSMD020-R
	D 421 Diode(B)	RR264MM-400TF	P 852 Surge Absorber	IMSA-6803-01Y900
	D 422 Diode(B)	RR264MM-400TF	P 1243 Poly Switch	FSMD075-24R
	D 423 Diode(B)	RR264MM-400TF	P 1276 Poly Switch	FSMD075-24R
B	D 424 Diode(B)	RR264MM-400TF	VA321 SMD Varistor	MLV0402ES012V0010N
	D 425 Diode(B)	RR264MM-400TF	VA1201 SMD Varistor	MLV0402ES012V0010N
	D 501 Schottky Diode(A,B,C)	RB751SM-40	VA1202 SMD Varistor	MLV0402ES012V0010N
	D 502 Schottky Diode(A,B,C)	RB751SM-40	U 951 WWR Tuner Unit(B)	CWE2534
	D 504 Diode	EZAEG2A50AX	U 1001 BT Module	CWX4751
C	D 505 Diode	EZAEG2A50AX	CN1201 Connector	CKS6452
	D 506 Diode(D)	EZAEG2A50AX	CN1291 Connector(D)	KM200NA5L
	D 507 Diode(D)	EZAEG2A50AX	CN1292 Clamper(D)	CEF1046
	D 1201 Diode	DZ2S068C	CN1552 Clamper(D)	CEF1046
	D 1204 Diode	EZAEG2A50AX	JA 101 Plug	CKM1624
D	D 1205 Diode	EZAEG2A50AX	JA 851 Antenna Jack	CKX1104
	D 1206 Diode	DZ2S068C	JA 1231 Connector(A)	CKS3806
	D 1207 Diode	DZ2S068C	JA 1241 Jack	CKB1113
	D 1208 Diode	DZ2S068C	JA 1276 Jack	CKN1103
	D 1209 Diode	DZ2S068C		
E	D 1210 Diode	DZ2S068C		
	D 1291 Diode(D)	EZAEG2A50AX	R 111	RS1/16SS223J
	D 1292 Diode(D)	EZAEG2A50AX	R 112	RS1/16SS473J
	D 1293 Rectifier Diode	DAN202UM	R 113 (A,D)	RS1/16SS682J
	D 1301 Diode(A,B,C)	CRG03	R 113 (B,C)	RS1/16SS333J
F	D 1302 Diode	CRG03	R 114 (A,D)	RS1/4SA102J
	L 101 Choke Coil	CTH1620	R 114 (B,C)	RS1/4SA122J
	L 201 SMD SPL Inductor	CTH1521	R 121	RS1/16SS103J
	L 202 SMD SPL Inductor	CTH1524	R 123	RS1/4SA102J
	L 301 SMD SPL Inductor(B,D)	CTH1584	R 141	RS1/16SS104J
G	L 401 Inductor	CTF1793	R 142	RS1/16SS473J
	L 502 Inductor	CTF1645	R 143	RS1/16SS103J
	L 503 Chip Beads	VTL1133	R 144	RS1/16SS472J
	L 504 Chip Beads	VTL1133	R 145	RS1/16SS0R0J
	L 505 Chip Beads	VTL1133	R 202	RS1/16SS3303D
H	L 854 Inductor	LCMAR27J1608	R 207	RS1/16SS222J
	L 855 Inductor	CTF1786	R 208	RS1/16SS472J
	L 856 Inductor(A,B,C)	CTF1389	R 209	RS1/4SA472J
	L 857 Inductor(D)	ATL7033	R 210	RS1/16SS103J
	L 858 Chip Coil(D)	LCTAWR27J2520	R 214	RS1/16SS102J
I	L 859 Chip Coil(D)	LCTAW3R3J2520	R 215	RS1/16SS2403D
	L 860 Inductor(A,B,C)	LCYC150K1608	R 216	RS1/16SS7502D
	L 1001 Inductor	CTF1786	R 217	RS1/16SS4303D
	L 1276 Chip Beads	VTL1126	R 218	RS1/16SS4303D
	L 1277 Chip Beads	VTL1126	R 219	RS1/16SS104J
J	L 1278 Chip Beads	VTL1126	R 220	RS1/16SS3903D
	L 1279 Chip Beads	VTL1126	R 221	RS1/16SS6202D
	L 1291 Inductor(D)	CTF1713	R 222	RS1/16SS6802D
	L 1292 Chip Beads	VTL1126	R 223 0.02 ohm	CCN1401
	L 1293 Chip Beads	VTL1126	R 224	RS1/16SS6802D
K	L 1294 Chip Beads	VTL1126	R 225	RS1/16SS102J
	L 1295 Chip Beads	VTL1126	R 226	RS1/16SS1203D
	L 1296 Chip Beads	VTL1126	R 227	RS1/16SS1802D
	L 1297 Chip Beads	VTL1126	R 229	RS1/16SS3902D
	T 851 Variable Coil	CTC1215	R 230	RS1/16SS682J
L	X 501 Resonator 24 MHz	CSS1773	R 231	RS1/16SS4703D
	X 502 Resonator 32.768 kHz	CSS1807	R 232	RS1/16SS1503D
	X 751 Crystal Resonator 18.432MHz	CSS1826	R 233	RS1/16SS1003D
	X 851 Crystal Resonator	CSS1868	R 234	RS1/16SS7503D
	S 501 Switch(RESET)	CSG1020		

RESISTORS

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 235		RS1/16SS1603D		R 525		RS1/16SS103J	
R 236		RS1/16SS102J		R 526		RS1/16SS1213F	
R 237	(A,B,C)	RS1/16SS102J		R 527	(D)	RS1/16SS0R0J	A
R 238		RS1/16SS102J		R 528	(D)	RS1/16SS0R0J	
R 239		RS1/16SS101J		R 529		RS1/16SS0R0J	
R 240		RS1/16SS221J		R 530		RS1/16SS0R0J	
R 241		RS1/16SS121J		R 531		RS1/16SS222J	
R 242		RS1/16SS6801F		R 532		RS1/16SS102J	
R 244		RS1/16SS473J		R 533		RS1/10SR103J	
R 245	(A,B,C)	RS1/8SQ0R0J		R 534		RS1/10SR103J	
R 246	(D)	RS1/8SQ0R0J		R 536	(D)	RS1/16SS473J	
R 247	(D)	RS1/16SS102J		R 537	(A,B,C)	RS1/16SS473J	
R 248	(A,B,C)	RS1/16SS332J		R 538	(C)	RS1/16SS473J	
R 249	(D)	RS1/16SS332J		R 539	(A,B,D)	RS1/16SS473J	B
R 250		RS1/10SR471J		R 539	(C)	RS1/16SS103J	
R 256		RS1/16SS0R0J		R 540		RS1/16SS103J	
R 260		RS1/16SS473J		R 541		RS1/16SS103J	
R 263		RS1/10SR471J		R 545		RS1/16SS473J	
R 264		RS1/10SR0R0J		R 546		RS1/16SS103J	
R 268		RS1/10SR0R0J		R 547		RS1/16SS473J	
R 269		RS1/16SS101J		R 548		RS1/16SS102J	
R 301	(B,D)	RS1/10SR471J		R 550		RS1/16SS103J	
R 303	(B,D)	RS1/16SS1803D		R 551		RS1/16SS103J	
R 304	(B,D)	RS1/16SS4302D		R 554		RS1/16SS222J	
R 305	(B,D)	RS1/16SS682J		R 555		RS1/16SS0R0J	C
R 306	(B,D)	RS1/16SS0R0J		R 557		RS1/16SS221J	
R 321	(D)	RS1/16SS222J		R 558		RS1/16SS221J	
R 322		RS1/16SS0R0J		R 559		RS1/16SS221J	
R 323	(B,D)	RS1/16SS102J		R 560		RS1/16SS473J	
R 401	(B)	RS1/10SR103J		R 561		RS1/16SS103J	
R 402	(B)	RS1/4SA471J		R 563		RS1/16SS0R0J	
R 403	(B)	RS1/4SA471J		R 564		RS1/16SS472J	
R 404	(A)	RS1/10SR0R0J		R 565		RS1/16SS0R0J	
R 405	(B)	RS1/16SS1003F		R 566		RAB4CQ473J	
R 406		RS1/16SS183J		R 570		RS1/16SS221J	
R 422	(B)	RS1/16SS102J		R 571		RS1/16SS221J	D
R 441		RS1/16SS103J		R 573		RS1/16SS473J	
R 442		RS1/10SR221J		R 574		RS1/16SS473J	
R 481		RS1/16SS471J		R 575		RS1/16SS473J	
R 482		RS1/16SS103J		R 576		RS1/16SS473J	
R 501	(D)	RS1/16SS222J		R 577		RS1/16SS473J	
R 503		RS1/16SS222J		R 578		RS1/16SS473J	
R 504		RS1/16SS222J		R 579		RS1/16SS473J	
R 506		RS1/16SS473J		R 580		RS1/16SS473J	
R 507		RS1/16SS473J		R 581		RS1/16SS472J	
R 508		RS1/16SS473J		R 584		RS1/16SS102J	
R 509		RS1/16SS473J		R 586		RS1/16SS103J	E
R 510		RS1/16SS473J		R 587		RS1/16SS0R0J	
R 511		RS1/16SS473J		R 591		RS1/16SS361J	
R 512		RS1/16SS101J		R 595		RS1/16SS0R0J	
R 513		RS1/16SS222J		R 596		RS1/16SS0R0J	
R 514		RS1/16SS221J		R 597		RS1/16SS102J	
R 515		RS1/16SS221J		R 598		RS1/16SS102J	
R 516		RS1/16SS221J		R 599		RS1/16SS102J	
R 517		RS1/16SS221J		R 610	(A,C,D)	RS1/16SS473J	
R 518		RS1/16SS472J		R 611		RS1/16SS472J	
R 519		RS1/16SS271J		R 614		RS1/16SS473J	F
R 520	(B)	RS1/16SS472J		R 615		RS1/16SS103J	
R 522		RS1/16SS0R0J		R 616	(D)	RS1/10SR473J	
R 524		RS1/16SS3001D		R 617		RS1/16SS473J	

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	R 619 (A,B,C)	RS1/16SS473J	R 734	RS1/16SS103J
	R 620	RS1/16SS0R0J	R 735	RS1/16SS103J
A	R 622	RS1/16SS0R0J	R 736	RS1/16SS330J
	R 627 (A,B,C)	RS1/16SS153J	R 737	RS1/16SS330J
	R 628 (A,B,C)	RS1/16SS153J	R 741	RS1/16SS330J
	R 629	RS1/16SS472J	R 742	RS1/16SS103J
	R 630	RS1/16SS101J	R 743	RS1/16SS103J
	R 631	RS1/16SS221J	R 744	RS1/16SS330J
	R 633	RS1/16SS101J	R 745	RS1/16SS330J
	R 634	RS1/16SS101J	R 746	RS1/16SS103J
	R 635	RS1/16SS101J	R 747	RS1/16SS330J
	R 636	RS1/16SS101J	R 748	RS1/16SS330J
	R 637	RS1/16SS221J	R 749	RS1/16SS330J
B	R 638	RS1/16SS221J	R 750	RS1/16SS103J
	R 639	RS1/16SS101J	R 753	RS1/16SS0R0J
	R 642	RS1/16SS0R0J	R 754	RS1/16SS105J
	R 643	RS1/16SS101J	R 755	RS1/16SS471J
	R 644	RS1/16SS102J	R 758	RS1/10SR221J
	R 645	RS1/16SS101J	R 798 (A,B,C)	RS1/10SR0R0J
	R 646	RS1/16SS102J	R 799 (D)	RS1/16SS0R0J
	R 647	RS1/16SS102J	R 800	RS1/16SS0R0J
	R 648	RS1/16SS102J	R 801 (D)	RS1/16SS103J
	R 649	RS1/16SS102J	R 802 (D)	RS1/16SS100J
	R 650	RS1/16SS121J	R 803 (D)	RS1/16SS0R0J
C	R 651	RS1/16SS102J	R 804 (D)	RS1/16SS684J
	R 652	RS1/16SS101J	R 805 (D)	RS1/16SS102J
	R 653	RS1/16SS102J	R 810	RS1/10SR0R0J
	R 654	RS1/16SS102J	R 851	RS1/16SS105J
	R 655	RS1/16SS102J	R 852	RS1/16SS105J
	R 657	RS1/4SA0R0J	R 853 (A,B,C)	RS1/16SS391J
	R 658	RS1/4SA0R0J	R 853 (D)	RS1/16SS101J
	R 659	RS1/10SR0R0J	R 864	RS1/16SS103J
	R 672	RS1/16SS101J	R 868	RS1/16SS103J
	R 701	RS1/16SS103J	R 870	RS1/16SS101J
	R 702	RS1/16SS472J	R 873	RS1/16SS472J
D	R 703	RS1/16SS101J	R 874	RS1/16SS101J
	R 704	RS1/16SS101J	R 875	RS1/16SS472J
	R 705	RS1/16SS222J	R 876 (B)	RS1/16SS0R0J
	R 706	RS1/16SS222J	R 877 (B)	RS1/16SS0R0J
	R 707	RS1/16SS472J	R 878 (B)	RS1/16SS0R0J
	R 708	RS1/16SS272J	R 879 (B)	RS1/16SS0R0J
	R 709	RS1/16SS473J	R 890	RS1/16SS0R0J
	R 710	RS1/16SS0R0J	R 891	RS1/10SR0R0J
	R 711	RS1/16SS0R0J	R 957 (B)	RS1/16SS101J
	R 714	RAB4CQ121J	R 958 (B)	RS1/16SS101J
	R 715	RAB4CQ121J	R 959 (B)	RS1/16SS101J
E	R 716	RAB4CQ121J	R 960 (B)	RS1/16SS101J
	R 717	RAB4CQ121J	R 961 (B)	RS1/10SR102J
	R 718	RAB4CQ121J	R 962 (B)	RS1/10SR221J
	R 719	RAB4CQ121J	R 963 (B)	RS1/10SR121J
	R 720	RAB4CQ121J	R 966	RS1/10SR0R0J
	R 721	RAB4CQ121J	R 968	RS1/10SR0R0J
	R 722	RAB4CQ121J	R 970	RS1/4SA0R0J
	R 724	RS1/16SS121J	R 971	RS1/4SA0R0J
	R 728	RS1/10SR0R0J	R 1001	RS1/16SS0R0J
	R 729	RS1/10SR0R0J	R 1002	RS1/16SS221J
F	R 730	RS1/10SR0R0J	R 1004	RS1/16SS473J
	R 731	RS1/16SS330J	R 1005	RS1/16SS221J
	R 732	RS1/16SS330J	R 1006	RS1/16SS0R0J
	R 733	RS1/16SS103J	R 1007	RS1/16SS0R0J

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<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	
R 1008	RS1/10SR0R0J	R 1259 (A,B,C)	RS1/16SS0R0J	
R 1011	RS1/16SS0R0J	R 1260 (A,B,C)	RS1/16SS0R0J	
R 1012	RS1/16SS221J	R 1261 (A,B,C)	RS1/16SS0R0J	A
R 1013	RS1/16SS0R0J	R 1262 (A,B,C)	RS1/16SS0R0J	
R 1014	RS1/10SR0R0J	R 1263	RS1/10SR0R0J	
R 1015	RS1/10SR0R0J	R 1277 (D)	RS1/16SS471J	
R 1016	RS1/4SA0R0J	R 1278	RS1/16SS102J	
R 1017	RS1/16SS473J	R 1279 (D)	RS1/16SS471J	
R 1018	RS1/16SS473J	R 1280	RS1/16SS102J	
R 1102	RS1/16SS473J	R 1281	RS1/16SS101J	
R 1103	RS1/16SS473J	R 1282	RS1/16SS101J	
R 1104	RS1/16SS104J	R 1284	RS1/10SR0R0J	
R 1111	RS1/16SS473J	R 1286	RS1/16SS0R0J	
R 1118	RS1/16SS472J	R 1287	RS1/16SS0R0J	B
R 1123	RS1/16SS0R0J	R 1301	RS1/16SS103J	
R 1126	RS1/16SS0R0J	R 1302	RS1/16SS223J	
R 1201	RS1/10SR222J	R 1303	RS1/16SS221J	
R 1203	RS1/16SS223J	R 1306	RS1/16SS103J	
R 1204	RS1/16SS223J	R 1307	RS1/16SS0R0J	
R 1205	RS1/10SR222J	R 1309	RS1/10SR0R0J	
R 1206	RS1/10SR221J	R 1313	RS1/10SR0R0J	
R 1207	RS1/10SR221J	R 1314	RS1/10SR0R0J	
R 1208	RS1/10SR0R0J	<u>CAPACITORS</u>		
R 1209	RS1/10SR222J	C 101 2 200 uF/16 V	CCH1405	C
R 1210	RS1/10SR222J	C 102	CKSRYB103K50	
R 1211	RS1/10SR222J	C 103	CKSSYB102K50	
R 1212	RS1/10SR222J	C 104	CKSSYB102K50	
R 1213	RS1/16SS123J	C 105	CKSSYB102K50	
R 1214	RS1/10SR222J	C 106	CKSSYB102K50	
R 1215	RS1/10SR101J	C 107	CKSSYB102K50	
R 1218	RS1/10SR0R0J	C 108	CKSSYB102K50	
R 1231 (A)	RS1/16SS181J	C 109	CKSSYB102K50	
R 1232 (A)	RS1/16SS181J	C 110	CKSSYB102K50	
R 1233 (A)	RS1/16SS223J	C 111	CKSRYB104K50	
R 1234 (A)	RS1/16SS223J	C 122 1 uF	CCG1396	D
R 1235 (A)	RS1/16SS181J	C 201	CCSSCH681J50	
R 1236 (A)	RS1/16SS181J	C 202	CEVW101M16	
R 1237 (A)	RAB4CQ102J	C 203 10 uF	CCG1192	
R 1241 (A,B,C)	RS1/16SS821J	C 204	CEVQW221M6R3	
R 1241 (D)	RS1/16SS0R0J	C 205 1 uF	CCG1396	
R 1242 (A,B,C)	RS1/16SS821J	C 206 10 uF	CCG1236	
R 1242 (D)	RS1/16SS0R0J	C 208	CCSSCH471J50	
R 1243 (A,B,C)	RS1/16SS821J	C 209	CCSSCH681J50	
R 1243 (D)	RS1/16SS0R0J	C 210 2 200 uF/16 V	CCH1405	
R 1244 (A,B,C)	RS1/16SS821J	C 211 10 uF	CCG1192	
R 1244 (D)	RS1/16SS0R0J	C 213 1 uF	CCG1396	E
R 1245 (A,B,C)	RS1/16SS821J	C 214 10 uF	CCG1192	
R 1245 (D)	RS1/16SS0R0J	C 216 10 uF	CCG1236	
R 1246 (A,B,C)	RS1/16SS821J	C 217	CKSRYB105K10	
R 1246 (D)	RS1/16SS0R0J	C 218 10 uF	CCG1236	
R 1247	RS1/16SS223J	C 220 10 uF	CCG1236	
R 1248	RS1/16SS223J	C 221 10 uF	CCG1236	
R 1249	RS1/16SS223J	C 222	XCEVW221M10	
R 1250	RS1/16SS223J	C 223	CCSSCH221J50	
R 1251	RS1/16SS223J	C 224	CKSRYB105K10	
R 1252	RS1/16SS223J	C 225	CKSRYB105K10	
R 1253	RS1/16SS0R0J	C 227	CCSSCH391J50	F
R 1255	RS1/16SS0R0J	C 228	CCSSCH681J50	
R 1257 (A,B,C)	RS1/16SS0R0J			
R 1258 (A,B,C)	RS1/16SS0R0J			

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	C 230 10 uF	CCG1192	C 502	CKSSYB104K10
	C 231	CKSRYB104K16	C 503 4.7 uF	CCG1212
	C 232	CEVQW221M6R3	C 505	CKSSYB104K10
	C 234 4.7 uF	CCG1212	C 506 4.7 uF	CCG1212
	C 236 10 uF	CCG1236	C 507 4.7 uF	CCG1212
	C 238 22 uF	CCG1254	C 508	CKSSYB104K10
	C 239	CCSSCH100D50	C 509 4.7 uF	CCG1212
	C 240	CCSSCH100D50	C 510	CKSSYB104K10
	C 241 10 uF	CCG1192	C 511 4.7 uF	CCG1212
	C 242	CEVW101M16	C 512	CKSSYB104K10
B	C 243 10 uF	CCG1236	C 513 4.7 uF	CCG1212
	C 245	CKSRYB104K16	C 514	CKSSYB104K10
	C 247	CKSRYB105K10	C 517	CKSSYB104K10
	C 248 1 uF	CCG1393	C 518	CCSSCH100D50
	C 249	CKSRYB105K10	C 519	CCSSCH100D50
	C 250	CKSRYB105K10	C 520 4.7 uF	CCG1212
	C 251	CKSRYB105K10	C 521	CKSSYB104K10
	C 252 4.7 uF	CCG1212	C 522 4.7 uF	CCG1212
	C 253 1 uF	CCG1393	C 523 4.7 uF	CCG1212
	C 255 1 uF	DCH1246	C 524 4.7 uF	CCG1212
C	C 257 10 uF	CCG1236	C 525 10 uF	CCG1192
	C 259 10 uF	CCG1192	C 526	CKSSYB103K16
	C 260 10 uF	CCG1192	C 527 10 uF	CCG1192
	C 261	CKSSYB104K10	C 528	CKSSYB103K16
	C 263 (D)	CKSRYB105K16	C 529	CKSSYB104K10
	C 264 (D)	CKSRYB102K50	C 530 4.7 uF	CCG1212
	C 265 10 uF	CCG1236	C 531 1 uF	DCH1246
	C 266 10 uF	CCG1236	C 532 1 uF	DCH1246
	C 270 4.7 uF	CCG1212	C 533 4.7 uF	CCG1212
	C 302 (B,D)	CEVQW221M6R3	C 534	CKSSYB104K10
D	C 303 1 uF(B,D)	DCH1246	C 535	XCEVW221M10
	C 304 (B,D)	CKSRYB105K10	C 536	CCSSCH101J50
	C 305 4.7 uF(B,D)	CCG1212	C 537	CKSSYB103K16
	C 306 (B,D)	CKSSYB682K25	C 538 10 uF	CCG1192
	C 308 (B,D)	CKSRYB103K50	C 539	CKSSYB103K16
	C 309 10 uF(B,D)	CCG1236	C 540 10 uF	CCG1192
	C 311 1 uF(B,D)	CCG1396	C 541	CKSSYB222K50
	C 312 (B,D)	CEAT102M16	C 542	CKSSYB104K10
	C 313	CKSRYB102K50	C 543 1 uF	DCH1246
	C 315	CKSRYB104K16	C 544	CKSSYB473K16
E	C 317	CKSRYB105K10	C 545	CCSSCH100D50
	C 321	CKSRYB105K10	C 546	CCSSCH120J50
	C 322 (D)	CKSRYB105K10	C 551	CKSSYB104K10
	C 324 (D)	CKSRYB105K10	C 552 4.7 uF	CCG1212
	C 401 (B)	CKSRYB104K50	C 553 10 uF	CCG1192
	C 422 10 uF(B)	CCG1192	C 555	CKSSYB103K16
	C 424 10 uF(B)	CCG1192	C 556	CKSSYB104K10
	C 425 4.7 uF(B)	CCG1212	C 557 (A)	CKSSYB104K10
	C 426 10 uF(B)	CCG1192	C 558 (A)	CKSSYB104K10
	C 427 4.7 uF(B)	CCG1212	C 559	CKSQYB224K50
F	C 428 10 uF(B)	CCG1192	C 560	CKSSYB103K16
	C 430 10 uF(B)	CCG1192	C 565	CCSRCH330J50
	C 432 10 uF(B)	CCG1192	C 566	CCSRCH330J50
	C 433 1 uF(B)	DCH1246	C 569	CCSSCH101J50
	C 442 10 uF	CCG1192	C 571	CCSRCH330J50
	C 444 10 uF	CCG1192	C 572	CCSRCH330J50
	C 462 10 uF(D)	CCG1192	C 573	CCSRCH101J50
	C 464 10 uF(D)	CCG1236	C 574	CCSSCH101J50
	C 481	CEVQW470M6R3	C 575	CKSSYB104K10
	C 482 1 uF	DCH1246	C 577	CCSSCH101J50

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<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	
C 578	CKSSYB104K10	C 808 1 uF(D)	CCG1325	A
C 579	CKSSYB104K10	C 809 1 uF(D)	CCG1255	
C 580	CKSRYB104K16	C 810 1 uF(D)	CCG1255	
C 586	CCSSCH102J50	C 811 (D)	CKSQYB104K50	
C 701	CKSSYB104K10	C 813 1 uF(D)	CCG1255	
C 702	CKSSYB104K10	C 814 1 uF(D)	CCG1255	B
C 711 4.7 uF	CCG1212	C 853	CCSSCH100D50	
C 712 1 uF	DCH1246	C 854	CCSSCH471J50	
C 713	CKSSYB104K10	C 858	CCSSCH220J50	
C 714 1 uF	DCH1246	C 859	CCSSCH331J50	
C 715 1 uF	DCH1246	C 860 (D)	CCSSCK2R0C50	C
C 716 1 uF	DCH1246	C 861 (D)	CCSSCK1R0C50	
C 718	CKSSYB104K10	C 862 (D)	CCSSCK1R0C50	
C 719	CKSSYB104K10	C 863 (D)	CCSSCH120J50	
C 720 1 uF	DCH1246	C 866	CKSSYB224K6R3	
C 722	CKSSYB104K10	C 867	CKSSYB102K50	D
C 724	CKSRYB102K50	C 870	CCSSCH102J50	
C 730 10 uF	CCG1192	C 871	CKSSYB104K10	
C 731	CKSSYB104K10	C 872	CKSSYB104K10	
C 741 2.2 uF	CCG1205	C 874	CCSSCH390J50	
C 742	CKSSYB104K10	C 878	CKSSYB152K50	E
C 743	CKSSYB104K10	C 882 1 uF(A,C,D)	DCH1246	
C 751 (A)	CKSRYB105K10	C 885 (D)	CKSSYB104K10	
C 752 (A)	CKSRYB105K10	C 886	CKSRYB102K50	
C 753	CKSRYB105K10	C 887	CKSRYB104K50	
C 754	CKSRYB105K10	C 888 (A,C,D)	CKSRYB104K16	F
C 755	CKSRYB105K10	C 889	CKSSYB104K10	
C 757	CKSRYB105K10	C 890 2.2 uF	CCG1205	
C 758	CKSRYB105K10	C 891 2.2 uF	CCG1205	
C 759 (A)	CKSRYB105K10	C 892	CKSRYB105K10	
C 760 (A)	CKSRYB105K10	C 951 (B)	CCSSCH101J50	A
C 762	CEVQW470M6R3	C 952 (B)	CKSSYB104K10	
C 763 (D)	CKSSYB104K10	C 958 10 uF(B)	CCG1192	
C 764	CKSSYB104K10	C 959 (B)	CKSSYB104K10	
C 765	CCSSCH151J50	C 960 10 uF(B)	CCG1192	
C 766	CCSSCH151J50	C 961 (B)	CKSSYB104K10	B
C 767	CEVQW470M6R3	C 969 (B)	CCSSCH150J50	
C 768	CEVQW470M6R3	C 970 (B)	CCSSCH150J50	
C 771 10 uF	CCG1192	C 1003	CKSRYB104K16	
C 772	CKSSYB104K10	C 1004	CKSRYB104K16	
C 773	CKSSYB104K10	C 1105 1 uF	DCH1246	C
C 774	CCSSCH100D50	C 1107	CKSRYB104K16	
C 775	CCSSCH100D50	C 1108	CKSRYB104K16	
C 776	CKSRYB105K10	C 1111	CKSSYB102K50	
C 777	CKSRYB105K10	C 1201	CCSRCH102J50	
C 778	CKSRYB105K10	C 1202	CKSRYB104K50	D
C 783 1 uF	DCH1246	C 1203	CKSRYB104K16	
C 790	CKSSYB102K50	C 1204	CKSRYB105K10	
C 791 10 uF	CCG1192	C 1205	CCSRCH221J50	
C 792	CKSSYB472K50	C 1206	CCSRCH221J50	
C 793	CKSSYB103K16	C 1207	CKSRYB474K10	E
C 799	CKSSYB222K50	C 1210	CKSRYB105K10	
C 800	CKSSYB222K50	C 1213	CKSRYB104K16	
C 801 1 uF(D)	CCG1255	C 1214	CKSRYB102K50	
C 802 1 uF(D)	CCG1255	C 1215	CKSRYB105K10	
C 803 1 uF(D)	CCG1325	C 1217	CCSSCH121J50	F
C 804 1 uF(D)	CCG1325	C 1218	CKSRYB104K16	
C 805 1 uF(D)	CCG1325	C 1231 (A)	CKSRYB104K16	
C 806 1 uF(D)	CCG1325	C 1232 (A)	CKSRYB105K16	
C 807 1 uF(D)	CCG1325	C 1241 10 uF	CCG1192	

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	C 1242 10 uF	CCG1192	D 1902 SMD Varistor	MLV0402ES012V0010N
	C 1243 10 uF	CCG1192	L 1901 Inductor	CTF1713
	C 1244 10 uF	CCG1192	L 1921 Inductor	CTF1786
	C 1245 10 uF	CCG1192	L 1922 Inductor	CTF1786
	C 1246 10 uF	CCG1192	L 1923 Inductor	CTF1786
	C 1247	CCSSCH101J50	S 1821 Push Switch	CSG1155
	C 1248	CCSSCH101J50	S 1823 Push Switch	CSG1155
	C 1249	CCSSCH101J50	S 1825 Push Switch	CSG1155
	C 1250	CCSSCH101J50	S 1826 Push Switch	CSG1155
	C 1251	CCSSCH101J50	S 1827 Push Switch	CSG1155
B	C 1252	CCSSCH101J50	S 1828 Push Switch	CSG1155
	C 1253	CKSSYB103K16	S 1829 Push Switch	CSG1155
	C 1254	CKSSYB104K10	S 1830 Push Switch	CSG1155
	C 1255	CKSSYB104K10	S 1831 Push Switch	CSG1155
	C 1257	CKSSYB102K50	S 1832 Push Switch	CSG1155
	C 1276	CKSRYB104K16	S 1833 Push Switch	CSG1155
	C 1277	CKSRYB104K16	S 1834 Push Switch	CSG1155
	C 1278	CKSRYB104K16	S 1835 Push Switch	CSG1155
	C 1279	CKSRYB104K16	S 1836 Encoder (MULTI-CONTROL)	CSD1168
	C 1280	CKSSYB102K50	CN1941 Connector	CKS6451
	C 1281	CKSSYB102K50	JA 1901 Connector	CKS6443
	C 1291 (D)	CKSRYB105K16	JA 1921 Jack	CKN1090
	C 1292 (D)	CKSRYB102K50	V 1801 LCD	CAW2057
	C 1294 (D)	CCSSCH470J50		
	C 1295 (D)	CCSSCH470J50		
C	C 1301	CKSRYB474K10	RESISTORS	
	C 1302	CKSRYB474K10	R 1801	RS1/16SS0R0J
	C 1303	CKSRYB474K10	R 1802	RS1/16SS0R0J
	C 1304	CKSRYB474K10	R 1803	RS1/16SS0R0J
	C 1306	CKSRYB105K10	R 1804	RS1/16SS0R0J
	C 1310 10 uF/16 V	DCH1263	R 1805	RS1/16SS472J
	C 1311 2.2 uF	CCG1205	R 1821	RS1/16SS273J
	C 1312	CKSRYB104K50	R 1841	RS1/16SS332J
	C 1316	CKSRYB104K50	R 1842	RS1/16SS152J
	C 1317	CKSRYB105K10	R 1843	RS1/16SS332J
D	C 1319	CKSSYB103K16	R 1844	RS1/16SS152J
	C 1328	CKSRYB105K10	R 1845	RS1/16SS332J
			R 1846	RS1/16SS152J
			R 1847	RS1/16SS470J
			R 1849	RS1/16SS470J
			R 1851	RS1/16SS470J
			R 1865	RS1/16SS332J
			R 1866	RS1/16SS152J
			R 1867	RS1/16SS332J
			R 1868	RS1/16SS152J
E	IC 1801 Driver IC	BU97540KV-M	R 1869	RS1/16SS332J
	IC 1802 Driver IC	BU97540KV-M	R 1870	RS1/16SS152J
	IC 1951 IC(A,D)	PNJ4833M	R 1871	RS1/16SS390J
	Q 1841 Bipolar Transistor	LSCR523UB	R 1873	RS1/16SS390J
	Q 1842 Bipolar Transistor	LSCR523UB	R 1875	RS1/16SS390J
	Q 1843 Bipolar Transistor	LSCR523UB	R 1877	RS1/16SS0R0J
	Q 1847 Bipolar Transistor	LSCR523UB	R 1878	RS1/16SS0R0J
	Q 1848 Bipolar Transistor	LSCR523UB	R 1879	RS1/16SS0R0J
	Q 1849 Bipolar Transistor	LSCR523UB	R 1883	RS1/8SQ101J
	D 1841 LED	SMLVN6RGB2UK(B)	R 1884	RS1/10SR221J
F	D 1842 LED	SMLVN6RGB2UK(B)	R 1885	RS1/10SR0R0J
	D 1843 LED	SMLVN6RGB2UK(B)	R 1886	RS1/10SR0R0J
	D 1844 LED	SMLVN6RGB2UK(B)	R 1887	RS1/16SS101J
	D 1845 LED	SMLVN6RGB2UK(B)	R 1888	RS1/16SS101J
	D 1901 SMD Varistor	MLV0402ES012V0010N	R 1941	RS1/10SR222J

B

Unit Number : QWM4243(A,D)

Unit Number : QWM4242(B,C)

Unit Name : Keyboard Unit

MISCELLANEOUS

R 1942		RS1/10SR222J
R 1943		RS1/10SR222J
R 1944		RS1/10SR222J
R 1952	(B,C)	RS1/16SS473J
R 1953	(A,D)	RS1/10SR101J

CAPACITORS

C 1801		CKSRYB105K10
C 1802		CKSRYB105K10
C 1901		CKSRYB105K10
C 1902		CKSRYB104K16
C 1904		CKSRYB105K16
C 1905		CKSRYB105K16
C 1906	4.7 uF	CCG1212
C 1951	10 uF(A,D)	CCG1192
C 1952		CCSSCH470J50
C 1953		CCSSCH470J50

A

B

C

D

E

F