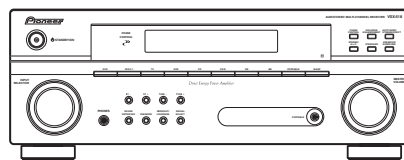


Service Manual



VSX-518-K

ORDER NO.
RRV3707

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-518-K

VSX-518-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-518-K	KUCXJ	AC 120 V	
VSX-518-S	KUCXJ	AC 120 V	



For details, refer to "Important Check Points for good servicing".

1234

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 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 contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

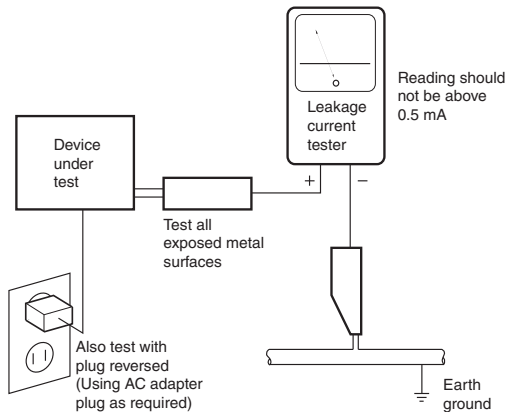
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[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.

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1. SERVICE PRECAUTIONS

1.1 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 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C 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.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

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.

1.2 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

When DC detection is activated ("AMP_ERR" flashes on the display), failure (damage) of the power amplifier section is considered.

Caution:

When releasing the lock state of power key before repair, please be careful because there is the possibility that more damages will occur when turning on the power once again!

- According to a symptom, perform the following confirmation beforehand.

1) Are there any Fuses and IC protectors open?



2) After turn on the power, confirm that the supply voltage of the point that can be measured is appropriate.
(Particularly the supply voltage of the power Tr and drive step)



3) Whether the voltage of pin2 and pin5 of IC601 or IC603 is equal to (VL-0.7V). If not (eg, equal to VH), then change the corresponding power pack IC601 or IC603.



4) Furthermore, check the output DC voltage of each channel of power pack IC601 and IC603 to limit the failure channel and identify the defect power pack.



- After identify the failure channel, check that each part is not damaged (resistor, diode... etc. value / open / short)

2. SPECIFICATIONS

2.1 SPECIFICATIONS

- A Amplifier section**
- **Continuous power output (stereo)**
Front. . .95 W (20 Hz to 20 kHz, THD 0.2 %, 8 Ω)¹
 - **Rated power output**
(surround / 20 Hz to 20 kHz, THD 0.06 %, 8 Ω)
Front.95 W per channel
Center.95 W
Surround.95 W per channel
 - **Rated power output**
(surround / 1 kHz, THD 0.05 %, 8 Ω)
Front.120 W per channel
Center.120 W
Surround.120 W per channel
- B Audio section**
- **Input (Sensitivity/Impedance)**
CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR.200 mV/47 k Ω
 - **Frequency response**
CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR.5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
 - **Output (Level/Impedance)**
CD-R/TAPE/MD, DVR/VCR.200 mV/2.2 k Ω
 - **Tone control**
Bass. $\pm$ 6 dB (100 Hz)
Treble. $\pm$ 6 dB (10 kHz)
Loudness.+10 dB/+5 dB (100 Hz/10 kHz)
(at volume level -50 dB)
 - **Signal-to-Noise Ratio (IHF, short circuited, A network)**
CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR.96 dB
 - **Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]**
CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR.79 dB
- C Video Section**
- **Input (Sensitivity/Impedance)**
DVR/VCR, DVD/BD, TV/SAT.1 Vp-p/75 Ω
 - **Output (Level/Impedance)**
DVR/VCR, MONITOR OUT.1 Vp-p/75 Ω
 - **Frequency response**
DVR/VCR, DVD/BD,
TV/SAT $\Rightarrow$ MONITOR.5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio.55 dB
Crosstalk.50 dB

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" is a registered trademark of DTS, Inc. and "DTS 96/24" is a trademark of DTS, Inc.

Component video section

- **Input (Sensitivity/Impedance)**
DVD/BD, TV/SAT, DVR/VCR.1 Vp-p/75 Ω
- **Output (Level/Impedance)**
MONITOR OUT.1 Vp-p/75 Ω
- **Frequency response**
DVD/BD, TV/SAT,
DVR/VCR $\Rightarrow$ MONITOR.5 Hz to 40 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio.60 dB

FM Tuner Section

- Frequency Range.87.5 MHz to 108 MHz
Usable Sensitivity.Mono: 13.2 dBf, IHF
(1.3 μ V/75 Ω)
50 dB Quieting Sensitivity.Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio.Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion.Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity.60 dB (400 kHz)
Stereo Separation.40 dB (1 kHz)
Frequency Response.30 Hz to 15 kHz
($\pm$ 1 dB)
Antenna Input (DIN).75 Ω unbalanced

AM Tuner Section

- Frequency Range.530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna).350 μ V/m
Signal-to-Noise Ratio.50 dB
Antenna.Loop antenna

Miscellaneous

- Power requirements.AC 120 V/60 Hz
Power consumption.280 W
In standby.0.5 W
Dimensions
.420 mm (W) x 158 mm (H) x 352.5 mm (D)
16 $\frac{9}{16}$ in. (W) x 6 $\frac{1}{4}$ in. (H) x 13 $\frac{7}{8}$ in. (D)
Weight (without package).7.9 kg (17 lb 4 oz)

Furnished Parts

- Remote control.1
Dry cell batteries (AA size IEC R6).2
AM loop antenna.1
FM wire antenna.1
Operating instructions

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

Note

- ¹ Continuous average power output of 95 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.2 %** total harmonic distortion (front).
* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.
** Measured by Audio Spectrum Analyzer.

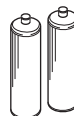
Accessories



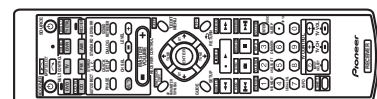
AM loop antenna
(ATB7013)



FM wire antenna
(ADH7030)



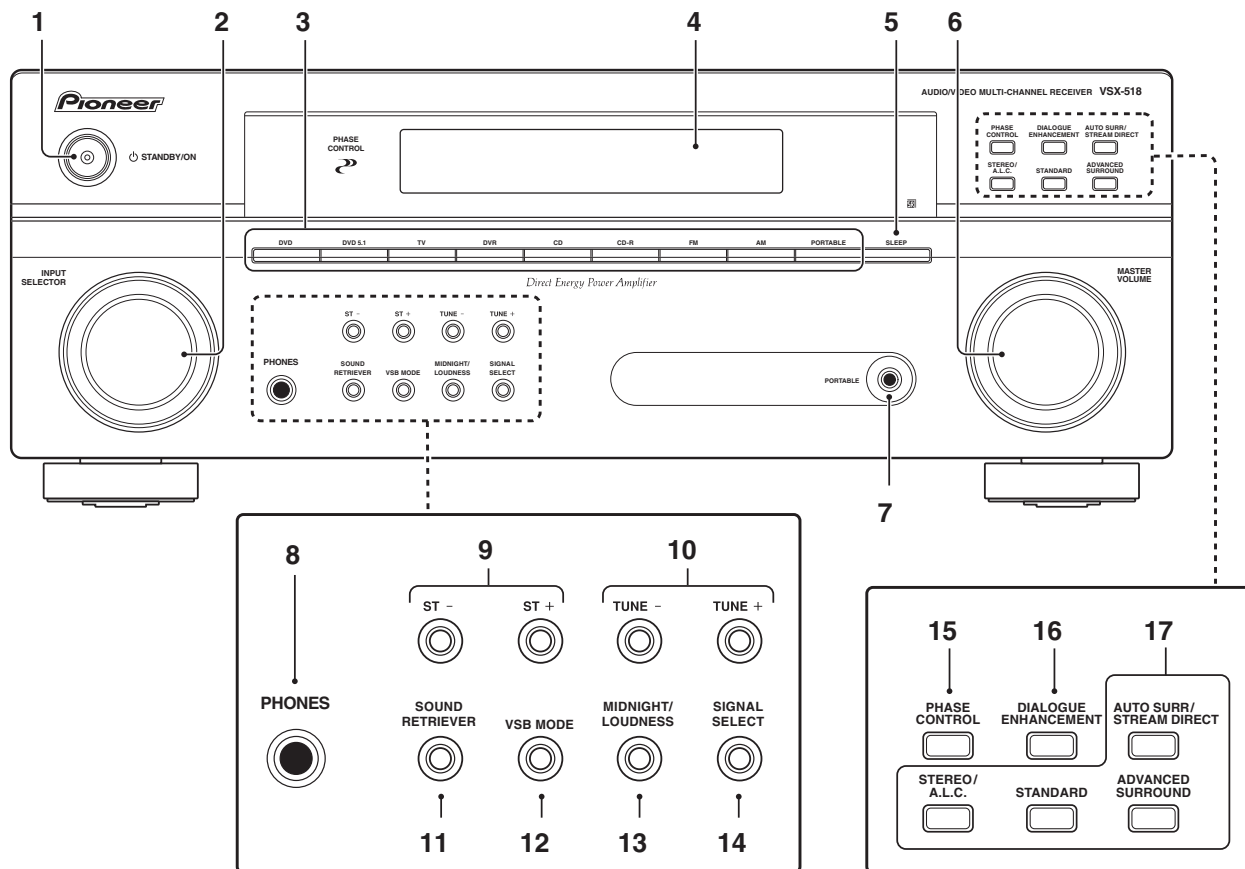
AA size IEC R6
Dry cell batteries (x2)



Remote control
(VSX-518-K : XXD3155)
(VSX-518-S : XXD3165)

2.2 PANEL FACILITIES

Front panel



1 **⏻ STANDBY/ON**

2 INPUT SELECTOR dial
Selects an input source.

3 Input select buttons
Selects an input source.

4 Character display

5 SLEEP

Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by pressing **SLEEP** once.

6 MASTER VOLUME dial

7 PORTABLE audio input jack
Connect an auxiliary component using a stereo mini-jack cable.

8 PHONES jack

Use to connect headphones (when connected, there is no sound output from the speakers).

9 ST +/-

Use to select preset radio stations.

10 TUNE +/-

Used to find radio frequencies.

11 SOUND RETRIEVER

Press to restore CD quality sound to compressed audio sources.

12 VSB MODE

Press to switch on/off Virtual Surround Back (VSB) mode.

13 MIDNIGHT/LOUDNESS

Switches to Midnight/Loudness listening.

14 SIGNAL SELECT

Selects an input signal.

15 PHASE CONTROL

Press to switch on/off Phase Control.

16 DIALOGUE ENHANCEMENT

Use to make dialog stand out when watching TV or a movie.

17 Listening mode buttons

AUTO SURR/STREAM DIRECT

Switches between Auto surround mode (Auto playback) and Stream Direct playback. Stream Direct playback bypasses the tone controls for the most accurate reproduction of a source.

STEREO/A.L.C.

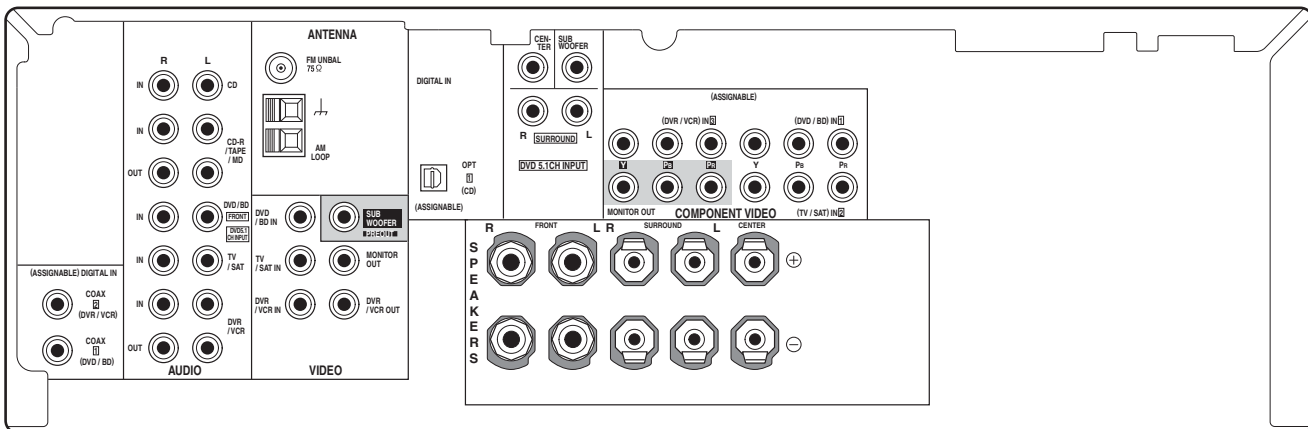
Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

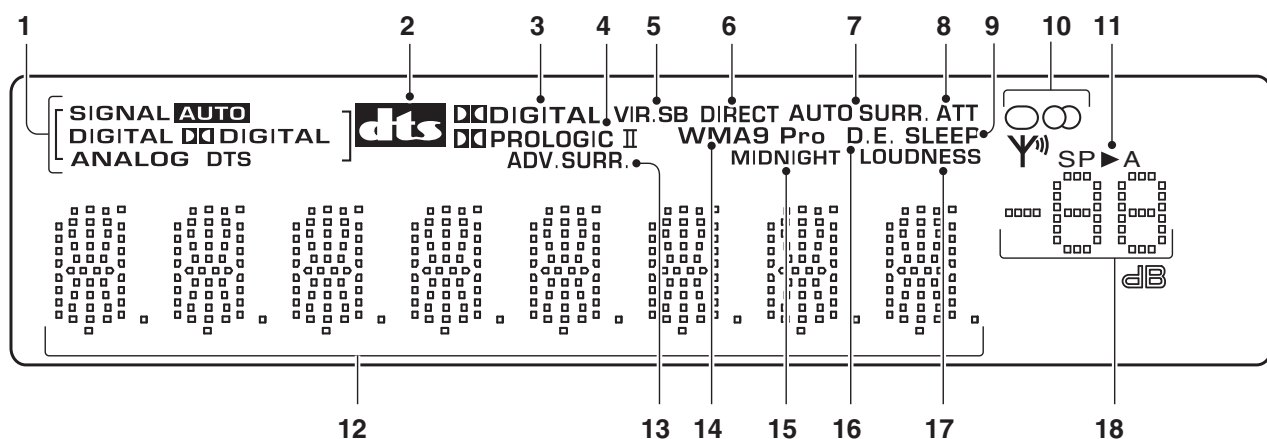
STANDARD

Press for Standard decoding and to switch between the various **DOLBY** Pro Logic II options.

ADVANCED SURROUND

Switches between the various surround modes.





1 SIGNAL SELECT indicators

Lights to indicate the type of input signal assigned for the current component:

AUTO

Lights when **AUTO** signal select is on.

DIGITAL

Lights when a digital audio signal is detected.

DD DIGITAL

Lights when a Dolby Digital encoded signal is detected.

ANALOG

Lights when an analog signal is detected.

DTS

Lights when a source with DTS encoded audio signals is detected.

2 DTS

Lights to indicate decoding of a DTS multichannel signal.

3 DD DIGITAL

Lights to indicate decoding of a Dolby Digital multichannel signal.

4 DD PRO LOGIC II

Lights to indicate Pro Logic II decoding.

5 VIR.SB

Lights during Virtual surround back processing.

6 DIRECT

Lights when source Stream Direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

7 AUTO SURR.

Lights when the Auto Surround feature is switched on.

8 ATT

Lights when **ANALOG ATT** is used to attenuate (reduce) the level of the analog input signal.

9 SLEEP

Lights when the receiver is in sleep mode.

10 Tuner indicators

○ / MONO

Lights when the mono mode is set using the **MPX** button.

⊞ / STEREO

Lights when a stereo FM broadcast is being received in auto stereo mode.

Y / TUNED

Lights when a broadcast is being received.

11 Speaker indicator

Shows if the speaker system is on or not.

SP▶ A means the speakers are switched on.

SP▶ means the headphones are connected.

12 Character display

13 ADV.SURR. (Advanced Surround)

Lights when one of the Advanced Surround modes has been selected.

14 WMA9 Pro

Lights to indicate decoding of a WMA9 Pro signal.

15 MIDNIGHT

Lights during Midnight listening.

16 D.E.

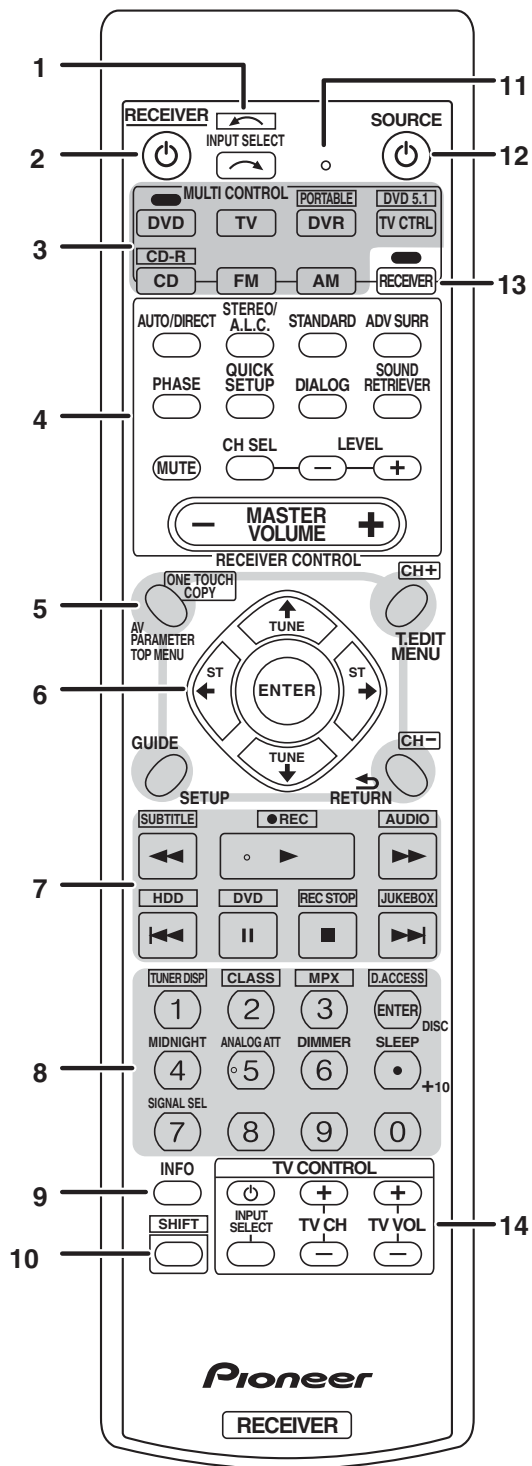
Lights when Dialog Enhancement is switched on.

17 LOUDNESS

Lights during Loudness listening.

18 Master volume level

Remote control



1 INPUT SELECT

Use to select the input source (use **SHIFT** for **INPUT SELECT**).

2 RECEIVER

Switches the receiver between standby and on.

3 MULTI CONTROL buttons

Press to select control of other components.

PORTABLE, **DVD 5.1** and **CD-R** buttons can be used with **SHIFT** button.

4 RECEIVER CONTROL buttons

AUTO/DIRECT

Switches between Auto surround mode (Auto playback) and Stream Direct playback. Stream Direct playback bypasses the tone controls for the most accurate reproduction of a source.

STEREO/A.L.C.

Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

STANDARD

Press for Standard decoding and to switch between Pro Logic II options.

ADV SURR

Switches between the various surround modes.

PHASE

Press to switch on/off Phase Control.

QUICK SETUP

DIALOG

Use to make dialog stand out when watching TV or a movie.

SOUND RETRIEVER

Press to restore CD quality sound to compressed audio sources.

MUTE

Mutes/unmutes the sound.

CH SEL

Press repeatedly to select a channel, then use **LEVEL +/-** to adjust the level.

LEVEL +/-

Use to adjust the channel levels.

MASTER VOLUME +/-

Use to set the listening volume.

5 System Setup and Component control buttons

The following button controls can be accessed after you have selected the corresponding

MULTI CONTROL button (**DVD**, **DVR**, **RECEIVER**, etc.).

AV PARAMETER

Use to access the AV options.

TOP MENU

Displays the disc 'top' menu of a DVD.

ONE TOUCH COPY*

Copies the currently playing title from DVD to HDD or vice-versa.

GUIDE

Displays/changes the subtitles on multilingual DVDs.

SETUP

Press to access the System Setup menu. Also functions as the **SETUP** button for DVD/DVR units.

T.EDIT

Memorizes/names stations for recall.

MENU

Displays the disc menu of DVD-Video discs.

RETURN

Confirm and exit the current menu screen.

CH +/-*

Use to select channels for DVD/DVR units.

6 (TUNE / , ST /), ENTER

Use the arrow buttons when setting up your surround sound system. Also used to control DVD menus/options.

Use the **TUNE**  /  buttons can be used to find radio frequencies and the **ST**  /  buttons can be used to select preset radio stations.

7 Component control buttons

Use these buttons to control a Pioneer DVD player or recorder connected to your system. These buttons can be accessed after the **DVD** or **DVR** button is pressed.

Button	What it does
	Starts/resumes normal playback.
	Pauses/unpauses a disc.
	Stops playback.
	Press to start fast reverse/forward scanning.
	Skips to the start of the current track or chapter, then previous tracks/chapters.
	Skips to the next track or chapter.
 REC*	Starts recording.
REC STOP*	Stops recording.
SUBTITLE*	Displays/changes the subtitles on multilingual DVD-Video discs.
AUDIO*	Changes the audio language or channel on DVD discs.
HDD* , DVD*	Switch between the hard disk and DVD controls for DVR.
JUKEBOX*	Display the jukebox screen.

8 Number buttons and other component controls

Use the number buttons to directly select a radio frequency or the tracks on a Pioneer DVD/DVR units. There are other buttons that can be accessed after the **RECEIVER** button is pressed. (For example **MIDNIGHT**, etc.)

TUNER DISP*

Switches between named station presets and radio frequencies.

CLASS*

Switches between the three banks (classes) of radio station presets.

MPX*

Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

D.ACCESS*

After pressing, you can access a radio station directly using the number buttons.

MIDNIGHT

Switches to Midnight or Loudness listening.

ANALOG ATT

Attenuates (lowers) the level of an analog input signal to prevent distortion.

DIMMER

Dims or brightens the display.

SLEEP

Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by pressing **SLEEP** once.

SIGNAL SEL

Use to select an input signal.

9 INFO

Displays additional EPG information on a DVD/DVR.

10 SHIFT

Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (*) in this section.

11 Remote control LED

Lights when a command is sent from the remote control.

12 SOURCE

Turns on or off the power of the Pioneer DVD/DVR units when **DVD** or **DVR** is selected using the **MULTI CONTROL** buttons.

13 RECEIVER

Switches the remote to control the receiver (used to select the green commands above the number buttons (**SETUP**, etc)). Also use this button to set up surround sound.

14 TV CONTROL buttons

These buttons can control only be used with Pioneer plasma displays.



Use to turn on/off the power of the TV.

INPUT SELECT

Use to select the TV input signal.

TV CH +/-

Use to select channels.

TV VOL +/-

Use to adjust the volume on your TV.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

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

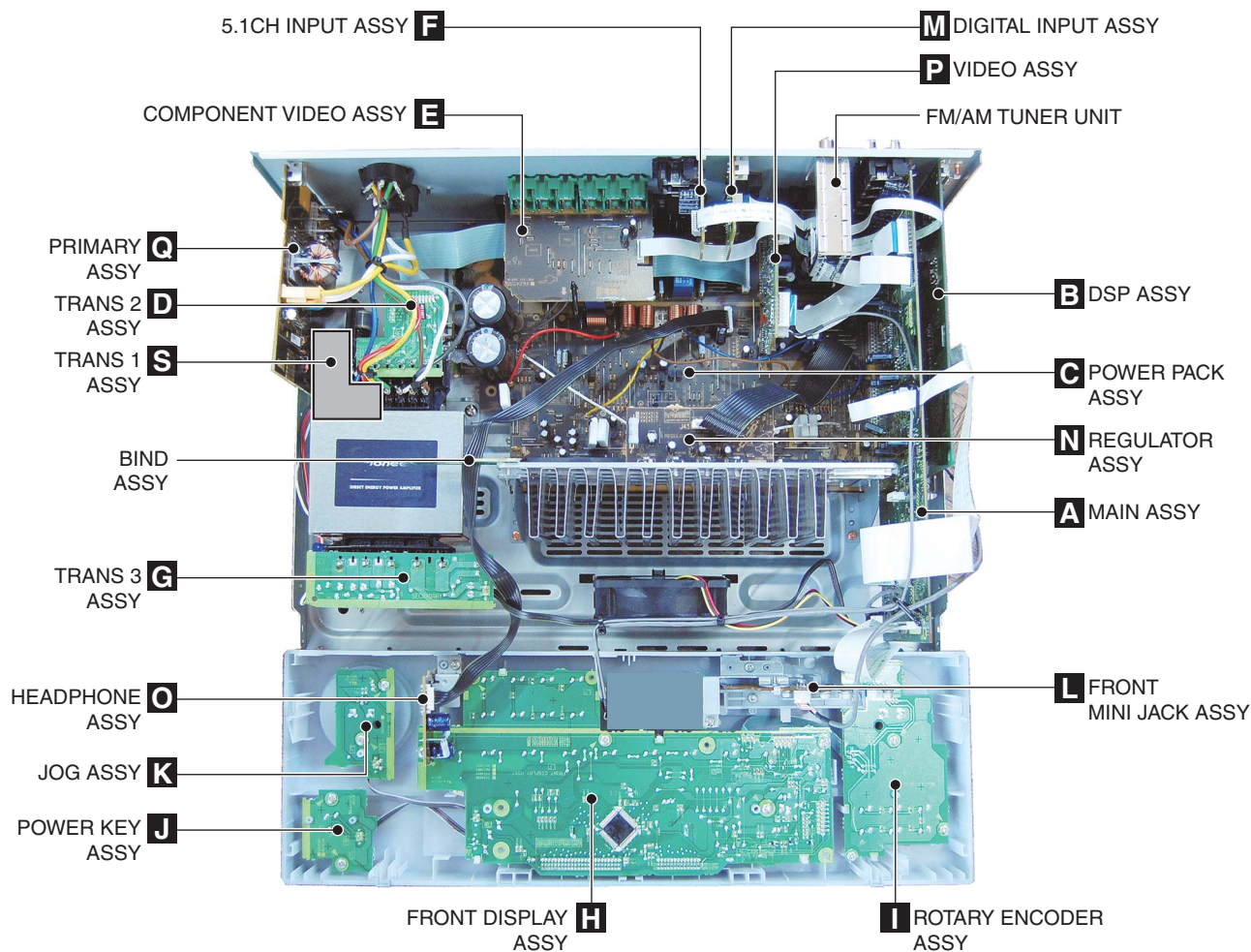
Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

CLEANING



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

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

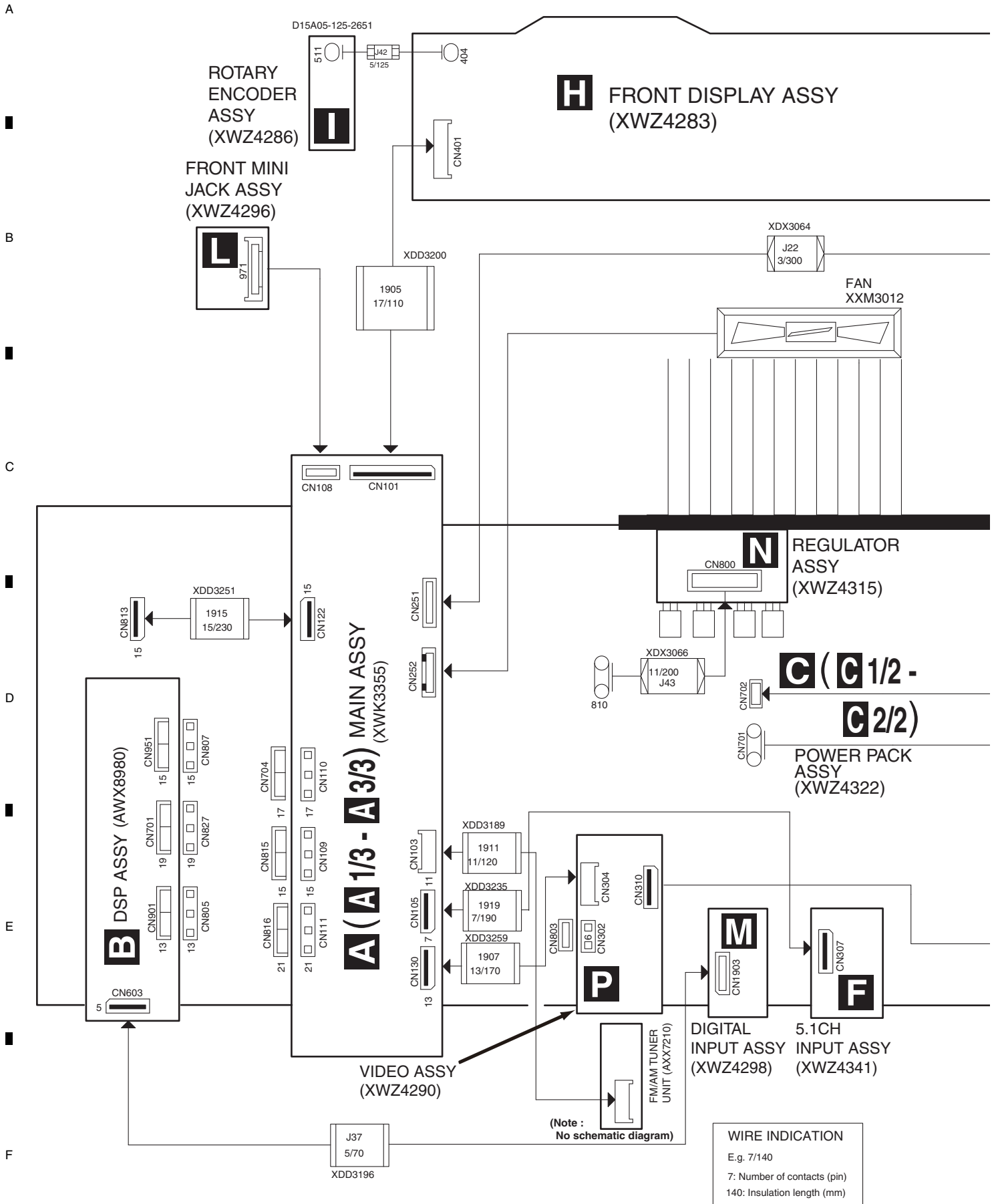


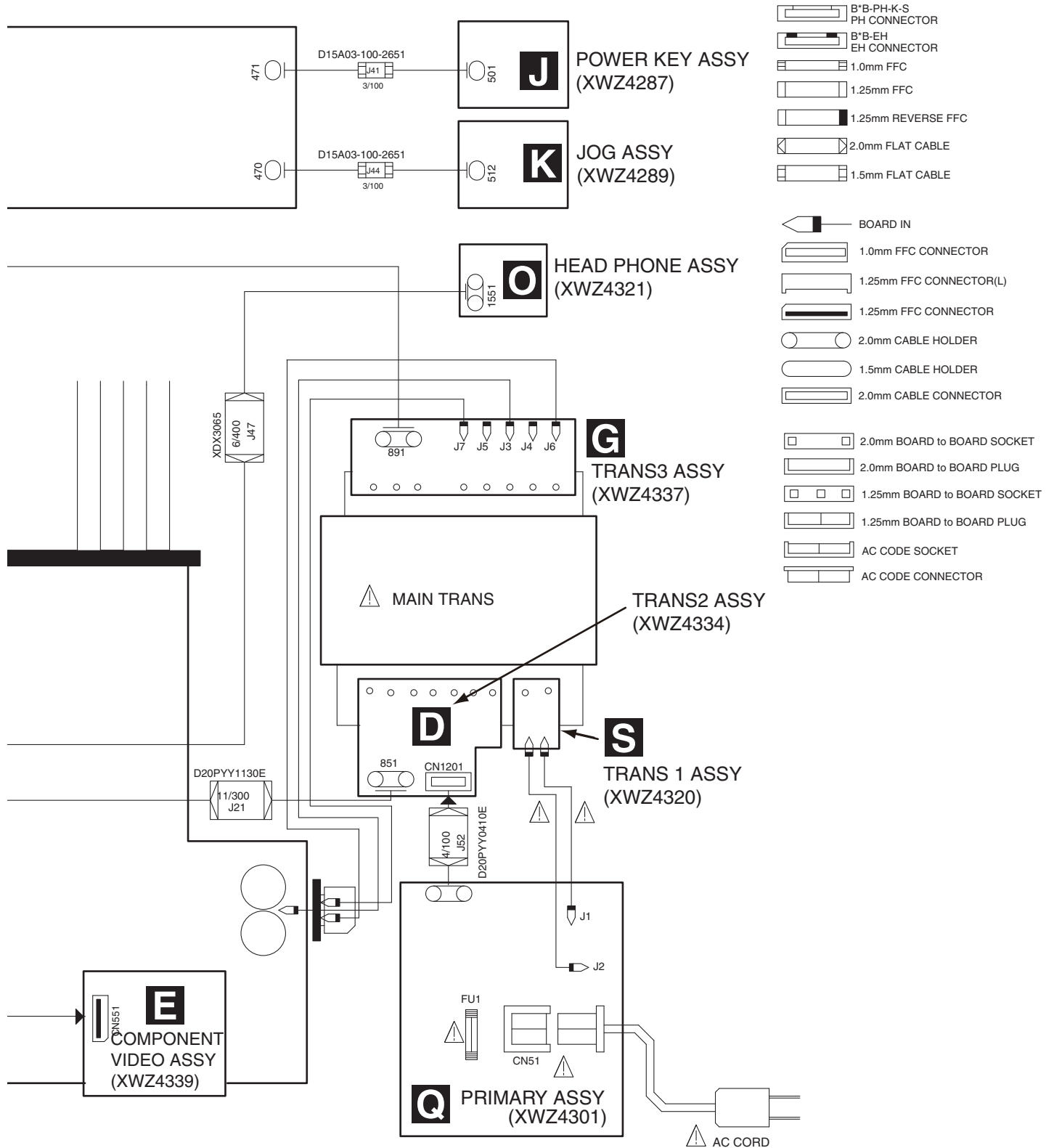
NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
	1..	DSP ASSY	AWX8980	NSP	1..	AMP ASSY	XWK3345
NSP	1..	COMPLEX ASSY	XWK3331		2..	POWER PACK ASSY	XWZ4322
	2..	FRONT DISPLAY ASSY	XWZ4283		2..	TRANS 2 ASSY	XWZ4334
	2..	ROTARY ENCODER ASSY	XWZ4286		2..	TRANS 3 ASSY	XWZ4337
	2..	POWER KEY ASSY	XWZ4287		2..	COMPONENT VIDEO ASSY	XWZ4339
	2..	JOG ASSY	XWZ4289		2..	5.1CH INPUT ASSY	XWZ4341
	2..	VIDEO ASSY	XWZ4290		2..	BIND ASSY	XWZ4344
	2..	FRONT MINI JACK ASSY	XWZ4296	1..	MAIN ASSY	XWK3355	
	2..	DIGITAL INPUT ASSY	XWZ4298	1..	FM/AM TUNER UNIT	AXX7210	
	2..	PRIMARY ASSY	XWZ4301				
	2..	REGULATOR ASSY	XWZ4315				
	2..	TRANS 1 ASSY	XWZ4320				
	2..	HEADPHONE ASSY	XWZ4321				

4. BLOCK DIAGRAM

4.1 OVERALL WIRING CONNECTION DIAGRAM





- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB 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 power supply is shown with the marked box.

4.2 BLOCK DIAGRAM

A

BLOCK DIAGRAM FOR VSX-518

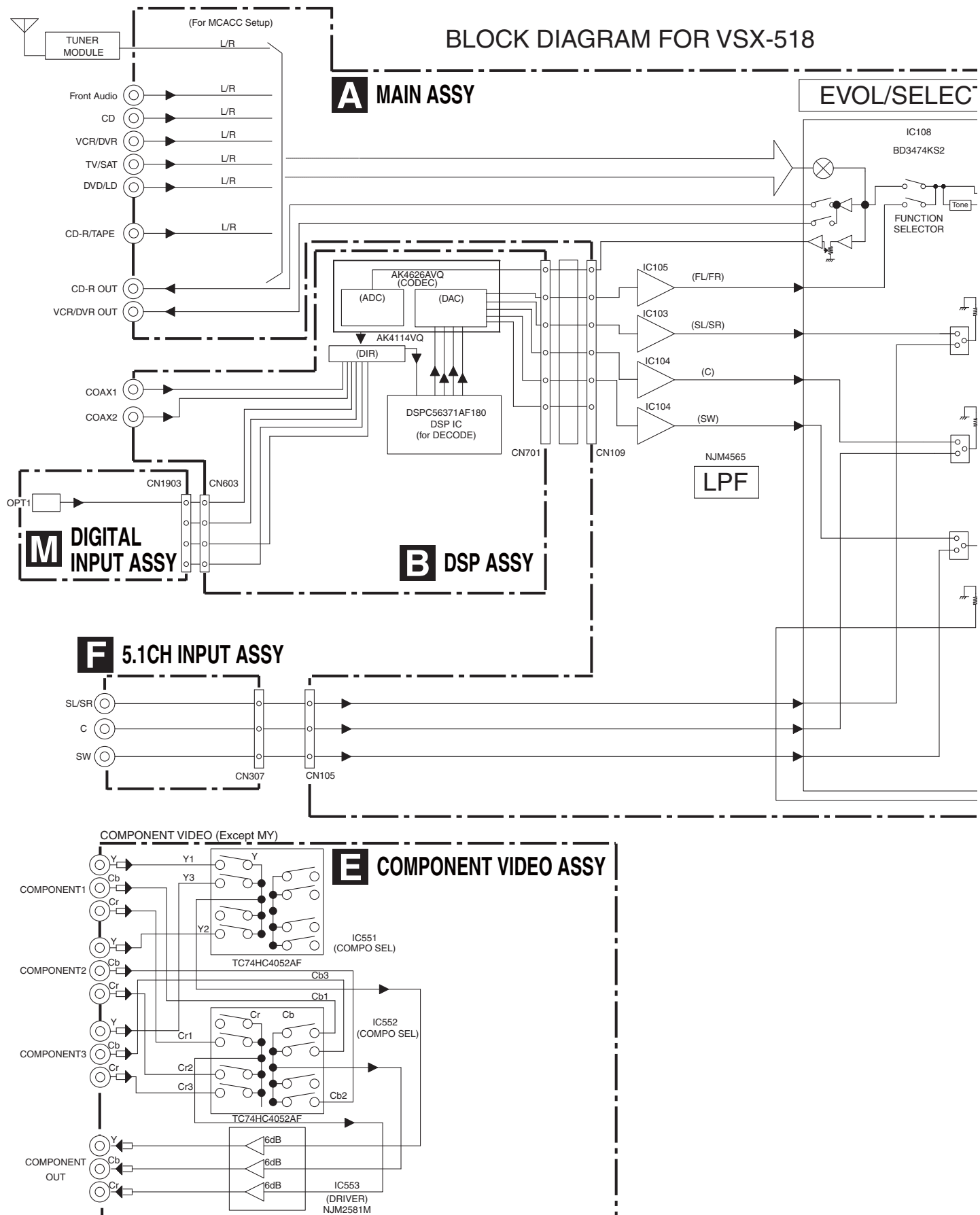
B

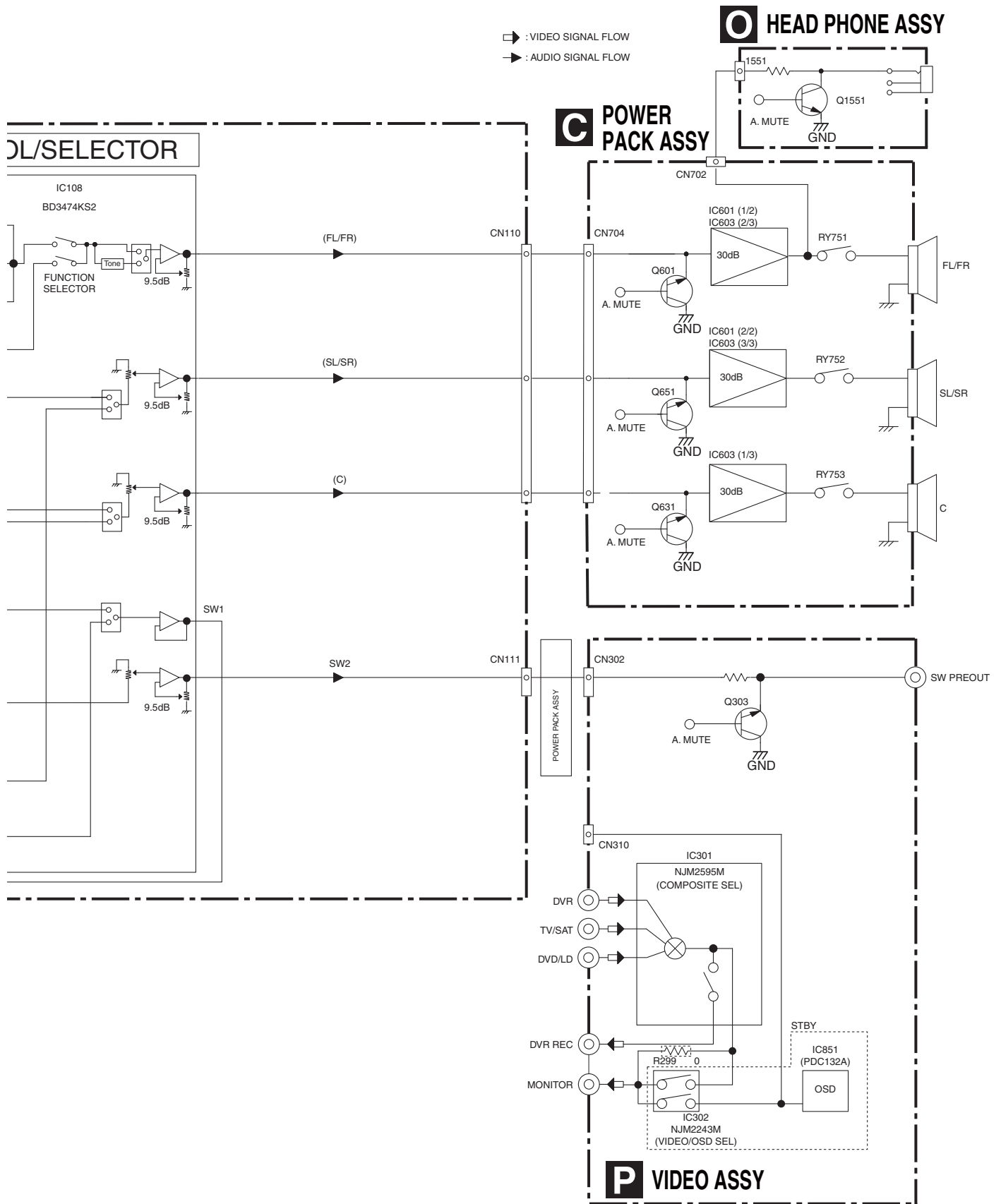
C

D

E

F

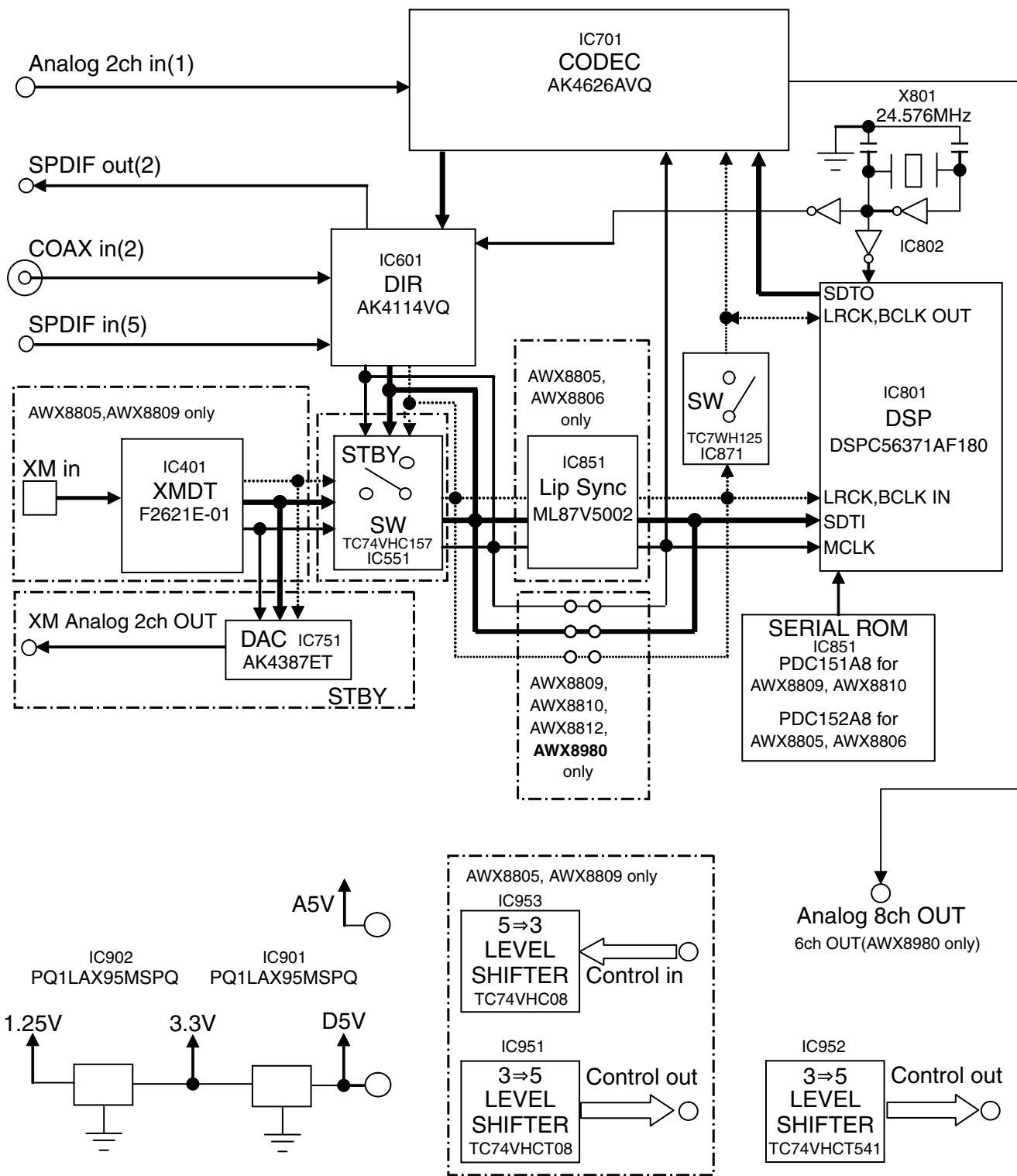




4.3 DSP BLOCK DIAGRAM

DSP ASSY Block Diagram

B DSP ASSY
(VSX-518 : AWX8980)



5. DIAGNOSIS

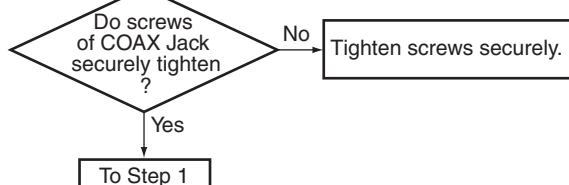
5.1 DIAGNOSIS FLOWCHART (DSP ASSY)

■ Troubleshooting for all destination

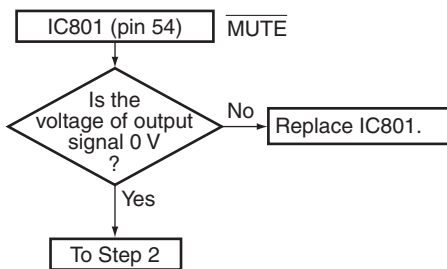
- When a sound is not out in the multi-CH signal playback mode or surround mode with the digital signal input. (SurroundBack is not output by setting.)
- Suppose CR to be normal contact and that is not damaged.
- This shows failure analysis of DSP Assy.

Step 0: Preliminary confirmation

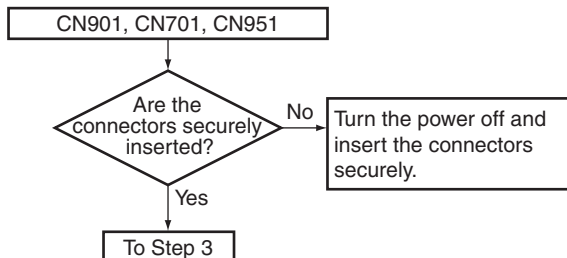
Confirm the following items before checking



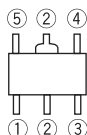
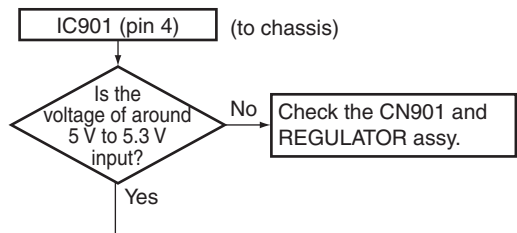
Step 1: MUTE pin



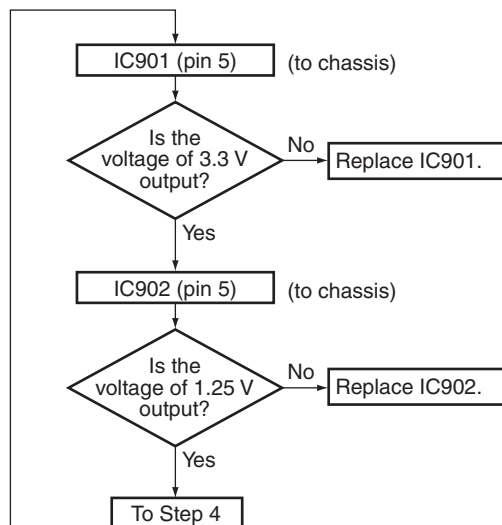
Step 2: BtoB connector



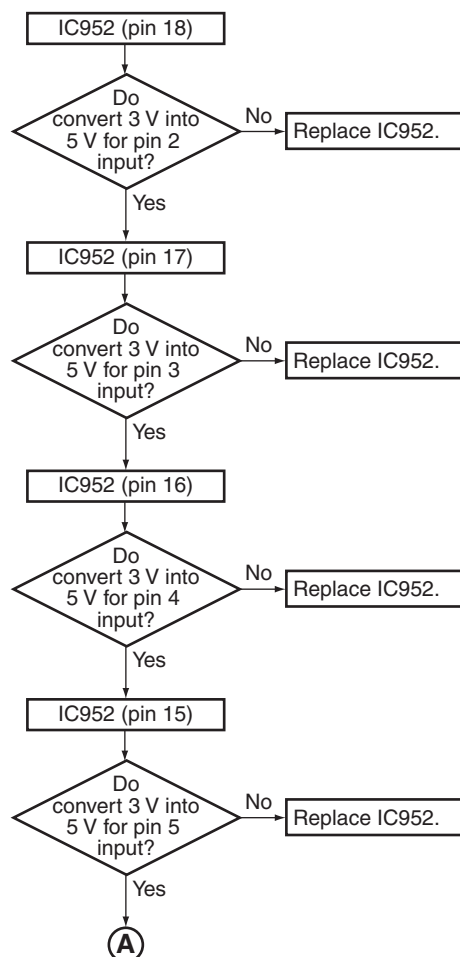
Step 3: Regulator IC



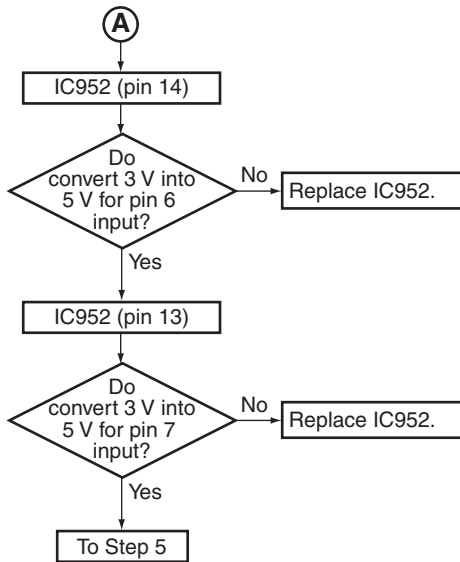
Part shape and Pin arrangement of IC901 and IC902



Step 4: 3 V to 5 V conversion

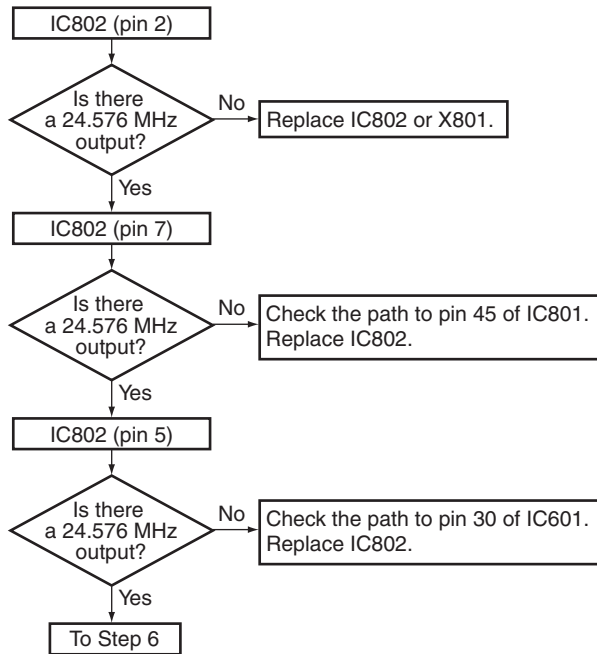


A



Step 5: X'tal

C



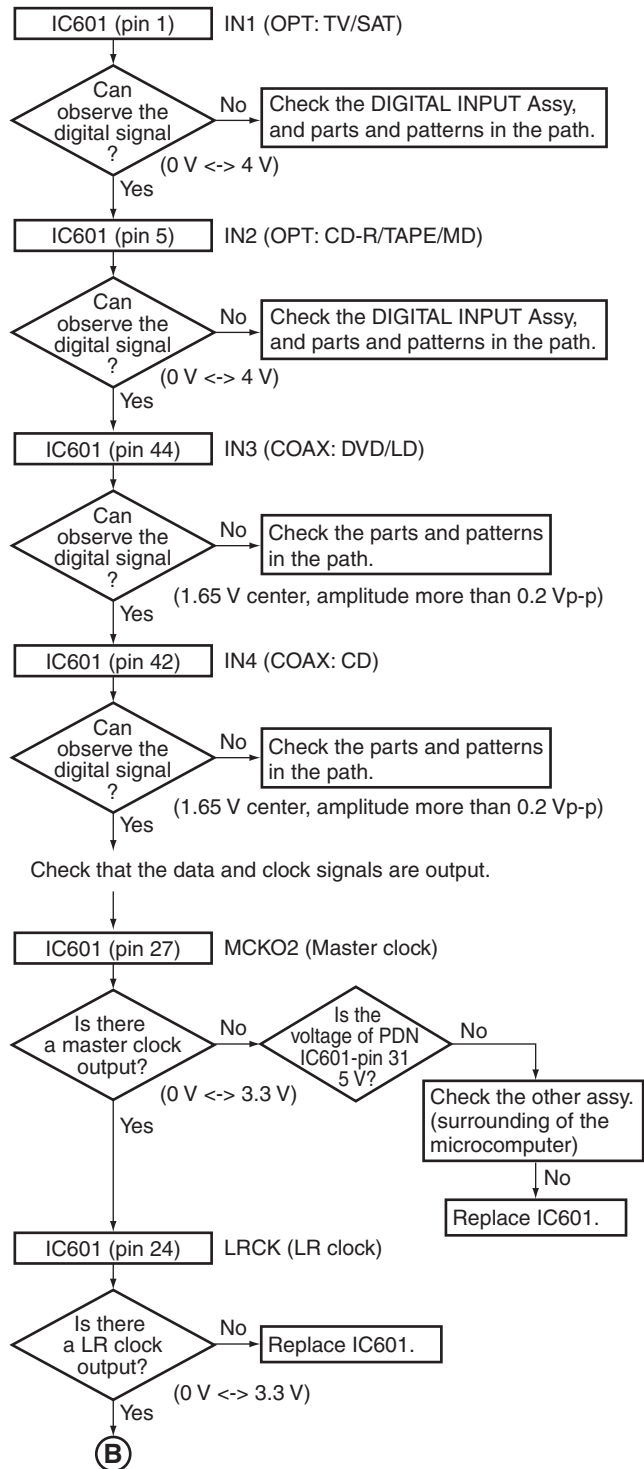
D

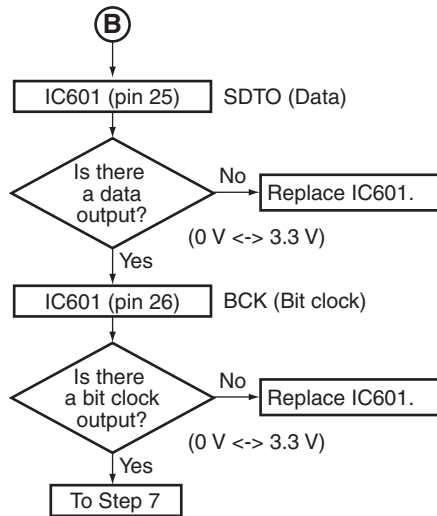
E

F

Step 6: DIR

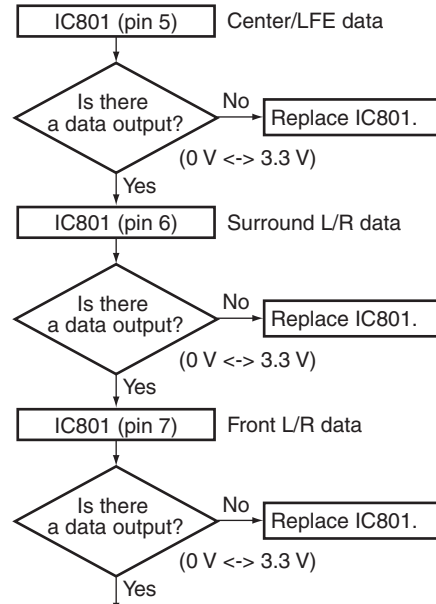
Check that the S/PDIF signal is output.
Check that changes by pulling out and inserting the digital input lines.



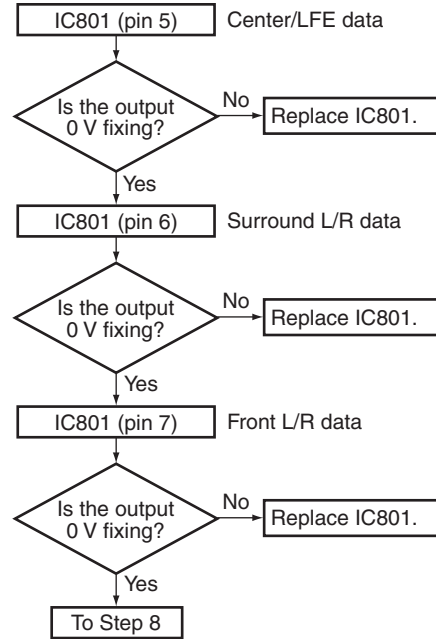


Step 7: DSP output (digital)

Digital output of each CH when inputting the digital signal with audio.

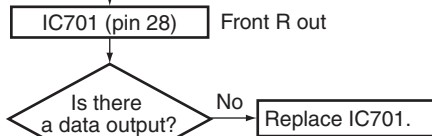
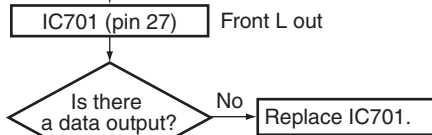
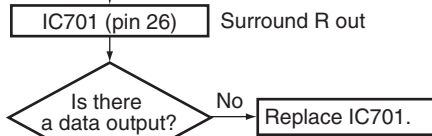
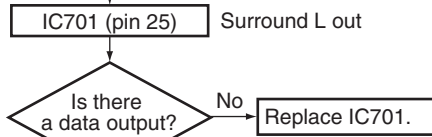
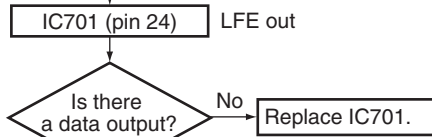
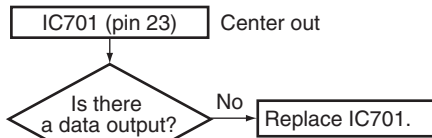


Digital output of each CH when inputting the digital signal ($-\infty$ dB (no audio)).

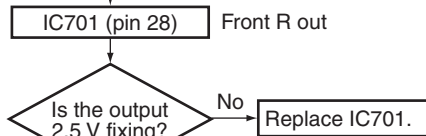
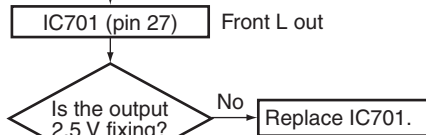
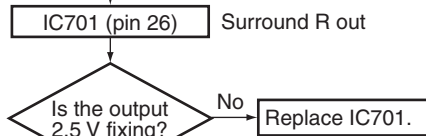
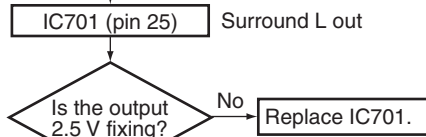
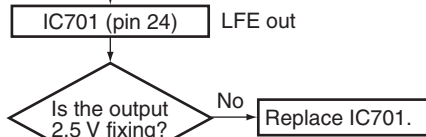
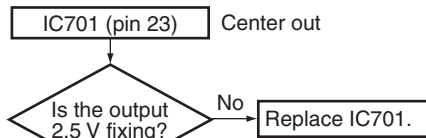


Step 8: Codec output (analog)

A Analog output of each CH when inputting the digital signal with audio.



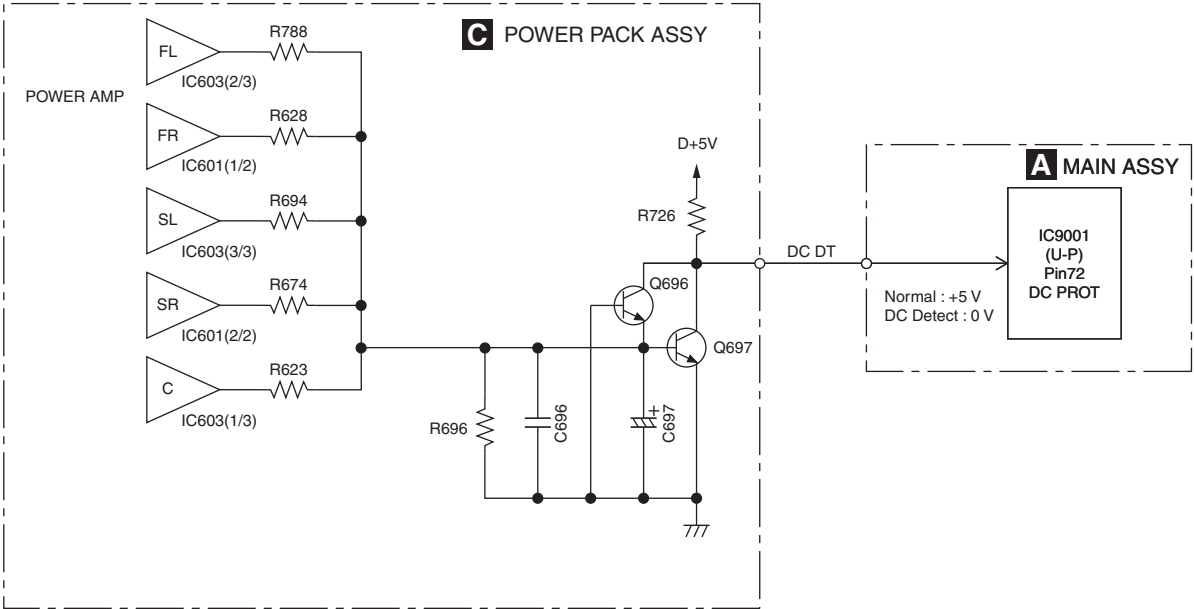
Analog output of each CH when inputting the digital signal (-∞ dB (no audio)).



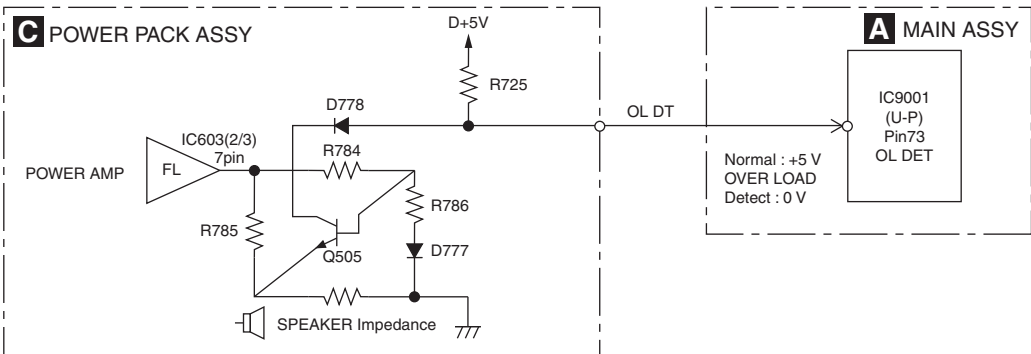
End

5.2 DETECTION CIRCUIT

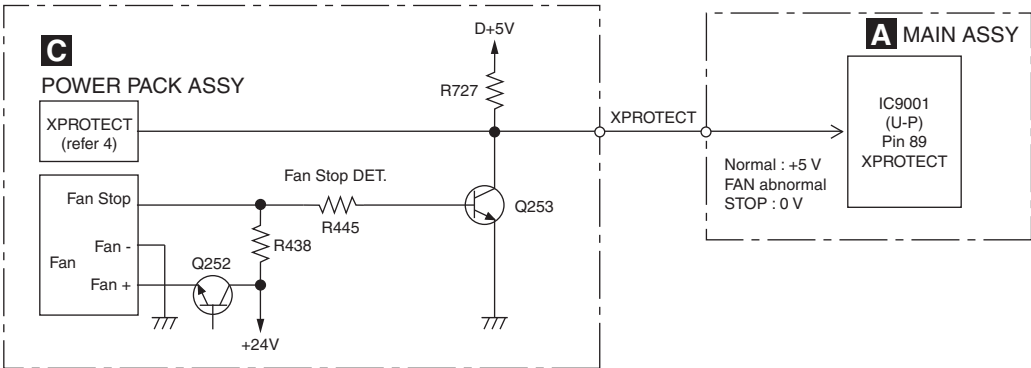
1. DC Derection Circuit Diagram : Example of VSX-918V/KUXJ/CA



2. Overload Detection Circuit Diagram: Example of VSX-918V/KUXJ/CA FRONT Channel



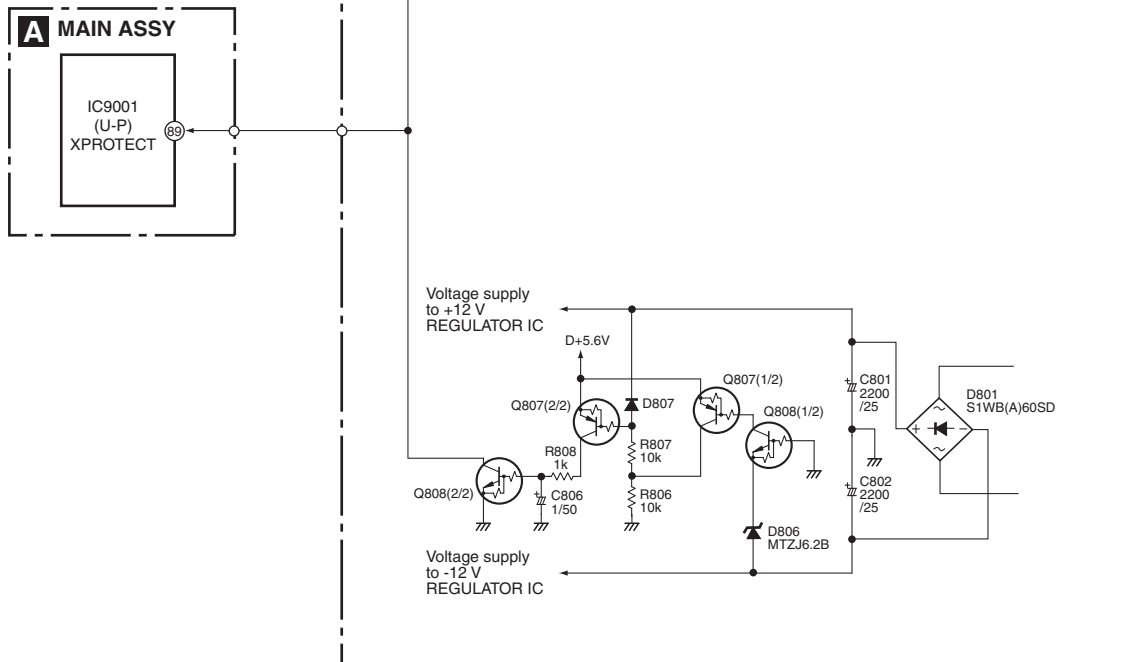
3. Fan Stop Protection Circuit Diagram



4. XPROTECT Detection Circuit Diagram

When below 6 kind of voltage supply become to be short circuit to GND, XPROTECT circuit work and U-P input port voltage change from +5 V to 0 V. The U-P detect this condition as ERROR.

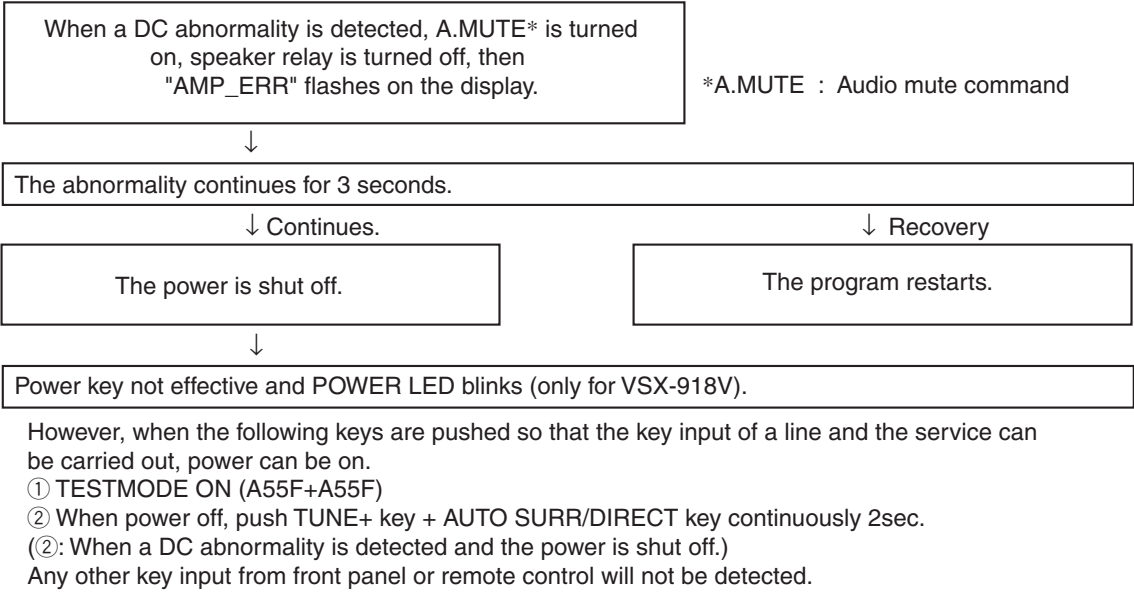
- Voltage supply to POWER AMP IC (V neck+)
- Voltage supply to POWER AMP IC (V neck-)
- Voltage supply to +12 V REGULATOR IC
- Voltage supply to -12 V REGULATOR IC



1. DC-abnormality detection

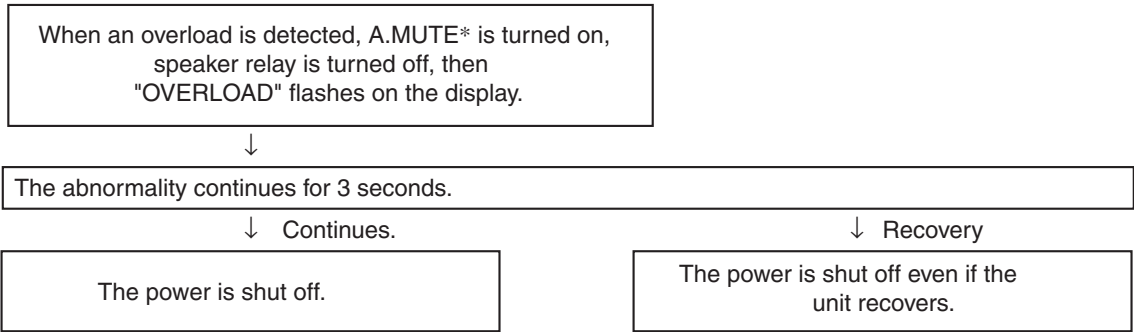
DC detection is only enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.

In the case of simultaneous detection with the overload protection circuit, DC-abnormality detection is performed preferentially to overload detection.



2. Overload detection

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.



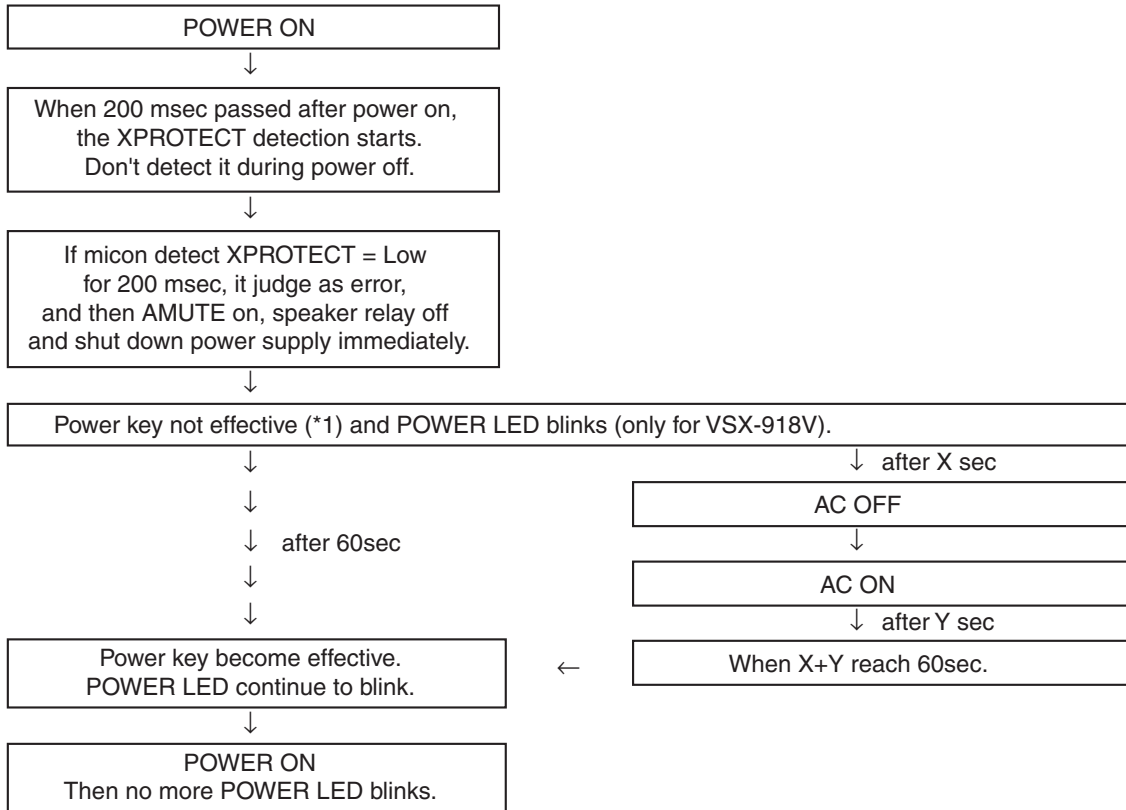
3. XPROTECT detection

XPROTECT is started to be monitored 200msec after power on.

XPROTECT port is checked every 20msec.

If Low level (ERROR) is recognized during consecutive 9 times, micon judge it as XPROTECT ERROR.

It processes more preferentially than DC abnormal detection and overload detection.



(*1) However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.

① TESTMODE ON (A55F+A55F)

② When power off, push TUNE+ key + AUTO SURR/DIRECT key continuously 2sec.

(Effective, only when power-off is carried out by DC detection / XPROTECT detection)

Any other key input from front panel or remote control will not be detected.

4. Fan stop detection operation flow in the XPROTECT detection

If the fan is forcibly stopped or become out of order, the 'XPROTECT' port becomes "L". Then an abnormality of fan is detected.

- Detection routine and recovery is same as "3. XPROTECT detection".

6. SERVICE MODE

There is no information to be shown in this chapter.

7. DISASSEMBLY

Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Diagnosis of the Unit

Caution:

Heatsink section in work becomes hot, and be careful with it.

① Remove the bonnet by removing the six screws.

① Remove the two screws.

② Remove the one screw.

③ Remove the two screws.

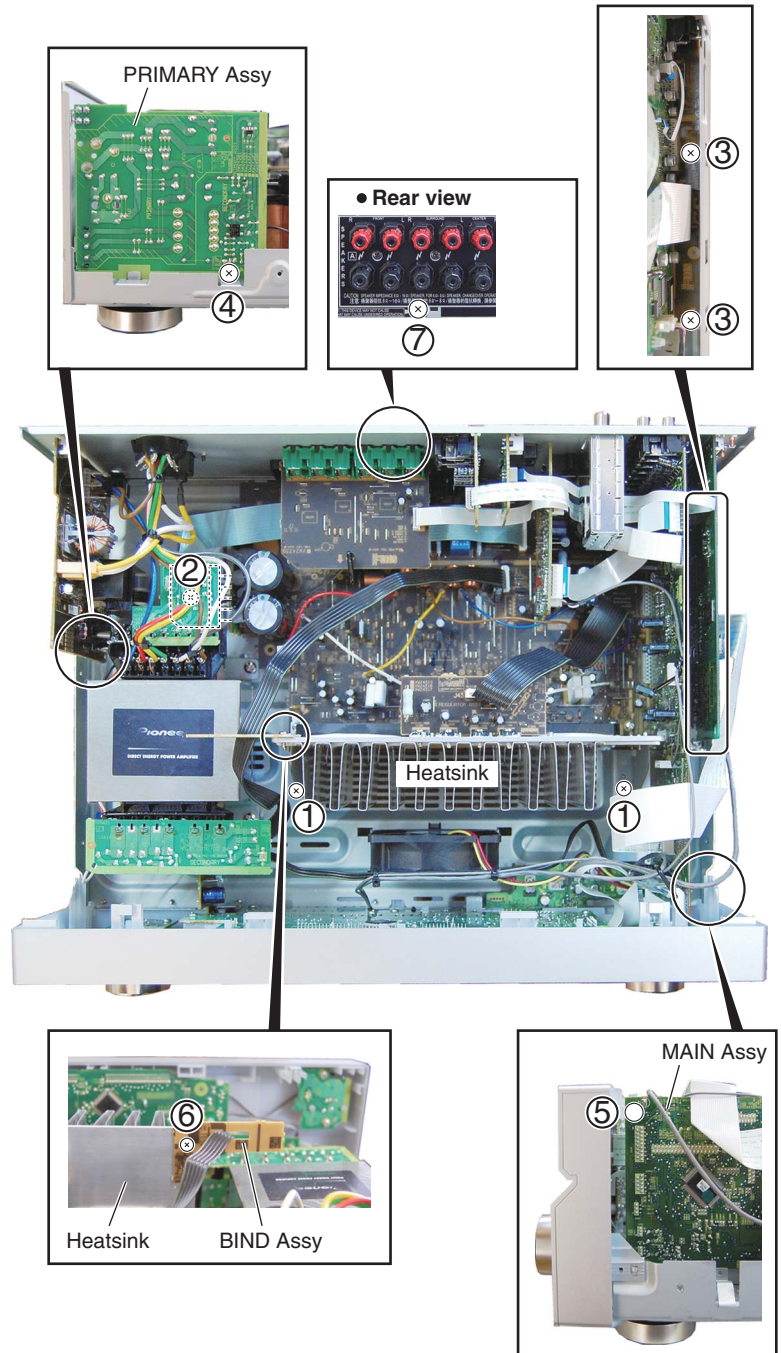
④ Remove the one screw.

⑤ Remove the push rivet.

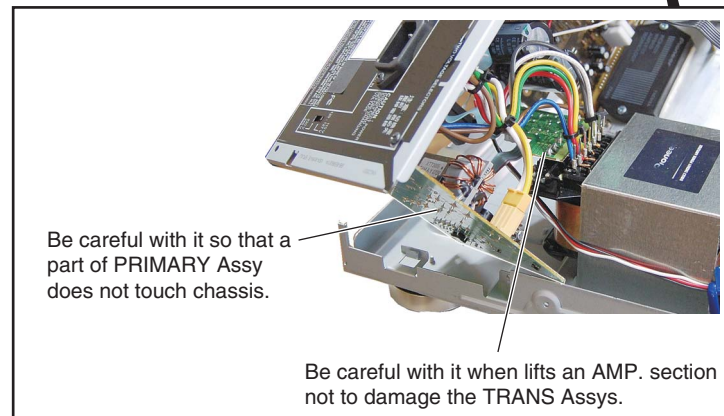
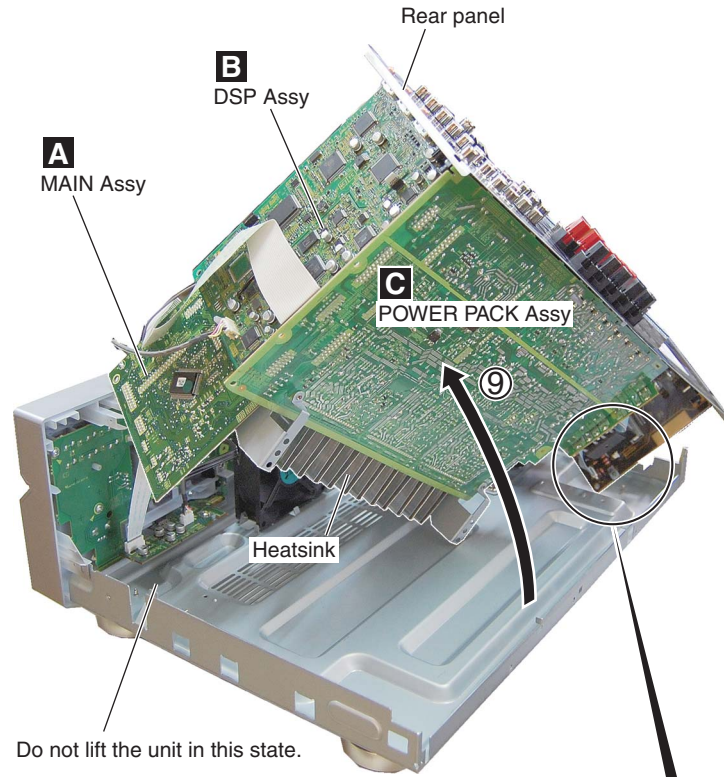
⑥ Remove the BIND Assy by removing the one screw.

⑦ Remove the one screw.

⑧ Release the binders, as required.



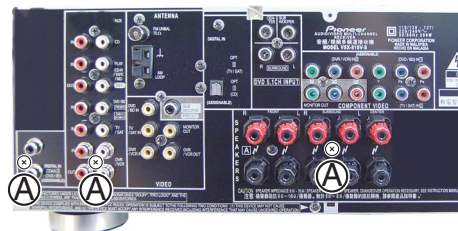
⑨ Arrange the unit as shown in the photo below.



↓
Diagnosis

Caution:

During diagnosis, be sure NOT to remove the three screws marked ① in the above photo. There is the case that a product does not work normally when removes these screws.



Disassembly

Front Panel Section

Caution:

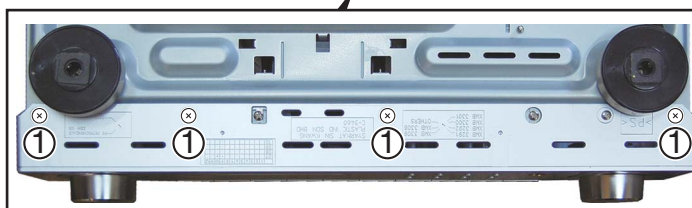
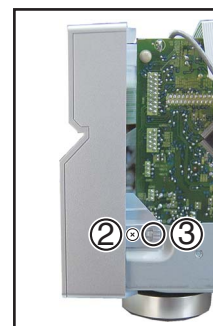
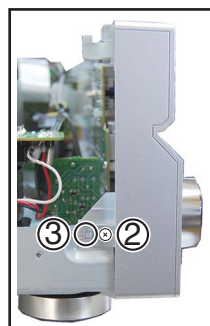
Heatsink section in work becomes hot, and be careful with it.

① Remove the bonnet by removing the six screws.

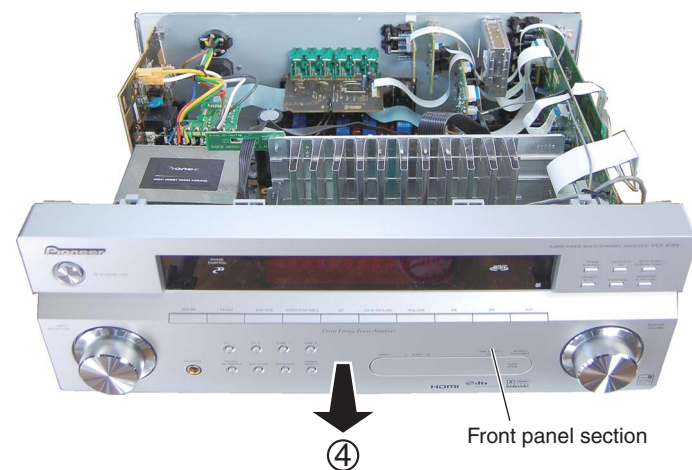
① Remove the four screws.

② Remove the two screws.

③ Unhook the two hooks.



④ Remove the front panel section.



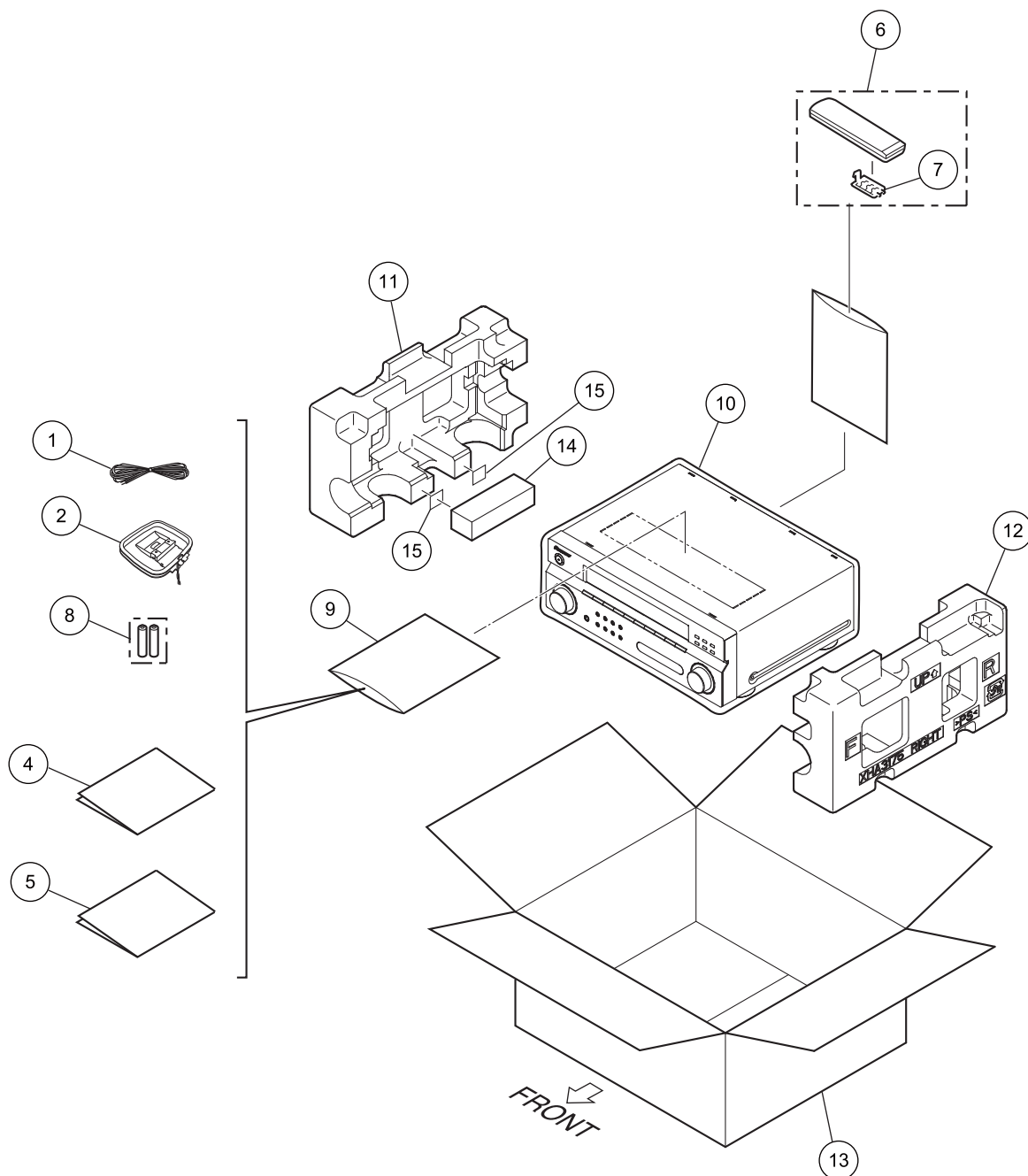
8. EACH SETTING AND ADJUSTMENT

There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

- NOTES:
- Parts marked by "NSP" 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.
 - Screws adjacent to  mark on 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.
1	FM Wire Antenna	ADH7030
2	AM Loop Antenna	ATB7013
3	•••••	
4	Operating Instructions (English/French)	XRE3174
5	Operating Instructions (Spanish)	XRC3359
6	Remote Control	See Contrast table (2)
7	Battery Cover	AZN7933
NSP 8	Dry Cell Battery (AA, R6)	XEX3002
NSP 9	Polyethylene Bag (0.06 x 230 x 340)	AHG7117
10	Packing Sheet	AHG7069
11	Left Pad V5	XHA3174
12	Right Pad V5	XHA3175
13	Packing Case	See Contrast table (2)
14	Sub Pad	XHA3179
NSP 15	DS Tape	XEH3001

(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	6	Remote Control	XXD3155	XXD3165
	13	Packing Case	XHD3779	XHD3780

△



(1) EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	DSP Assy	AWX8980	21	•••••	•••••	
2	•••••		⚠ 22	DC Fan Motor	XXM3012	A
3	•••••		NSP 23	Chassis 918	XNA3060	
4	REGULATOR Assy	XWZ4315	24	H/S Angle V3	XNG3145	
5	TRANS 1 Assy	XWZ4320	NSP 25	H/Sink V5	XNH3048	
6	POWER PACK Assy	XWZ4322	NSP 26	Spacer	AEB7092	
7	TRANS 2 Assy	XWZ4334	27	Push Rivet	AEC7205	
8	TRANS 3 Assy	XWZ4337	28	Insulator	AMR7198	
9	BIND Assy	XWZ4344	29	Cord Clamper	RNH1005	
10	MAIN Assy	XWK3355	NSP 30	Binder (BK-1)	ZCA-BK1	
⚠ 11	Power Transformer (T1501)	XTS3112	31	Bonnet	See Contrast table (2)	B
12	11P Flexible Cable (J1911)	XDD3189	32	•••••		
13	17P Flexible Cable (J1905)	XDD3200	33	•••••		
14	7P Flexible Cable (J1919)	XDD3235	34	Insulator	See Contrast table (2)	
15	5P Flexible Cable (J1912)	XDD3248	35	Screw	BBZ30P060FCC	
16	15P Flexible Cable (J1915)	XDD3251	36	Screw	BBZ30P080FNI	
17	•••••		37	Screw	BBZ30P080FTB	
18	13P Flexible Cable (J1907)	XDD3259	38	Screw	BBZ30P140FTC	
19	•••••		39	Screw	BBZ40P080FNI	
20	•••••		40	•••••		C
			41	Screw	See Contrast table (2)	

(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	31	Bonnet	XZN3196	XZN3197
	34	Insulator	AMR7198	PNW2766
	41	Screw	BBZ30P080FTB	BBZ30P080FNI

1 2 3 4

9.3 REAR PANEL SECTION

A

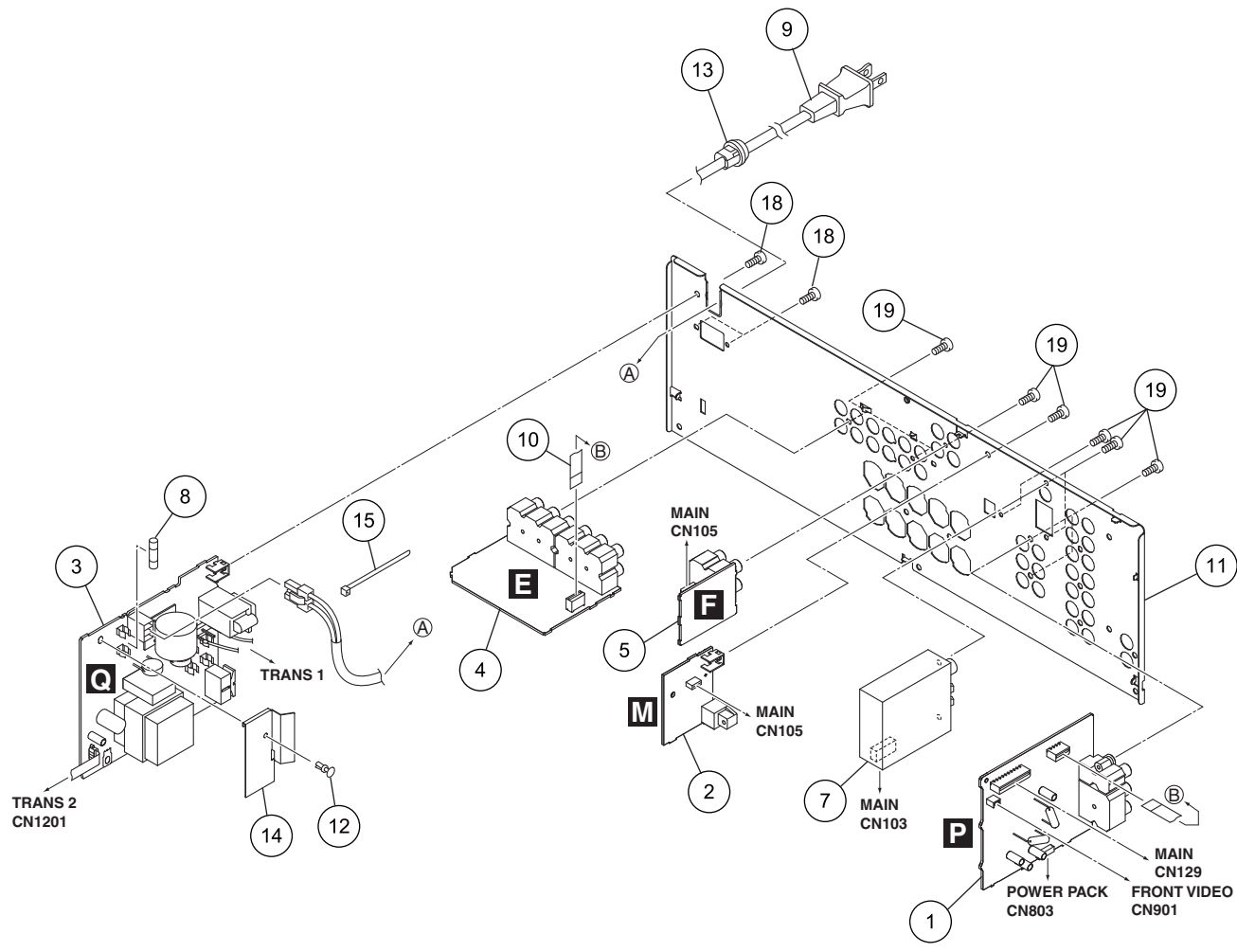
B

C

D

E

F



(1) REAR PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	VIDEO Assy	XWZ4290
	2	DIGITAL INPUT Assy	XWZ4298
	3	PRIMARY Assy	XWZ4301
	4	COMPONENT VIDEO Assy	XWZ4339
	5	5.1CH INPUT Assy	XWZ4341
	6	•••••	
	7	FM/AM TUNER Unit	AXX7210
⚠	8	Fuse (FU1: 8A)	REK1153
⚠	9	AC Power Cord	ADG7024
	10	7P Flexible Cable (J1913)	XDD3254
	11	R Panel	See Contrast table (2)
	12	Push Rivet	AEC7205
	13	Cord Stopper	CM-22C
	14	PRI Barrier	XEC3087
NSP	15	Binder (BK-1)	ZCA-BK1
	16	•••••	
	17	•••••	
	18	Screw	BBZ30P080FNI
	19	Screw	BBZ30P080FTB

(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	11	R Panel	XNC3554	XNC3555

A

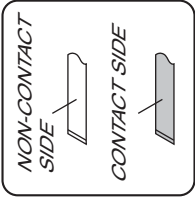
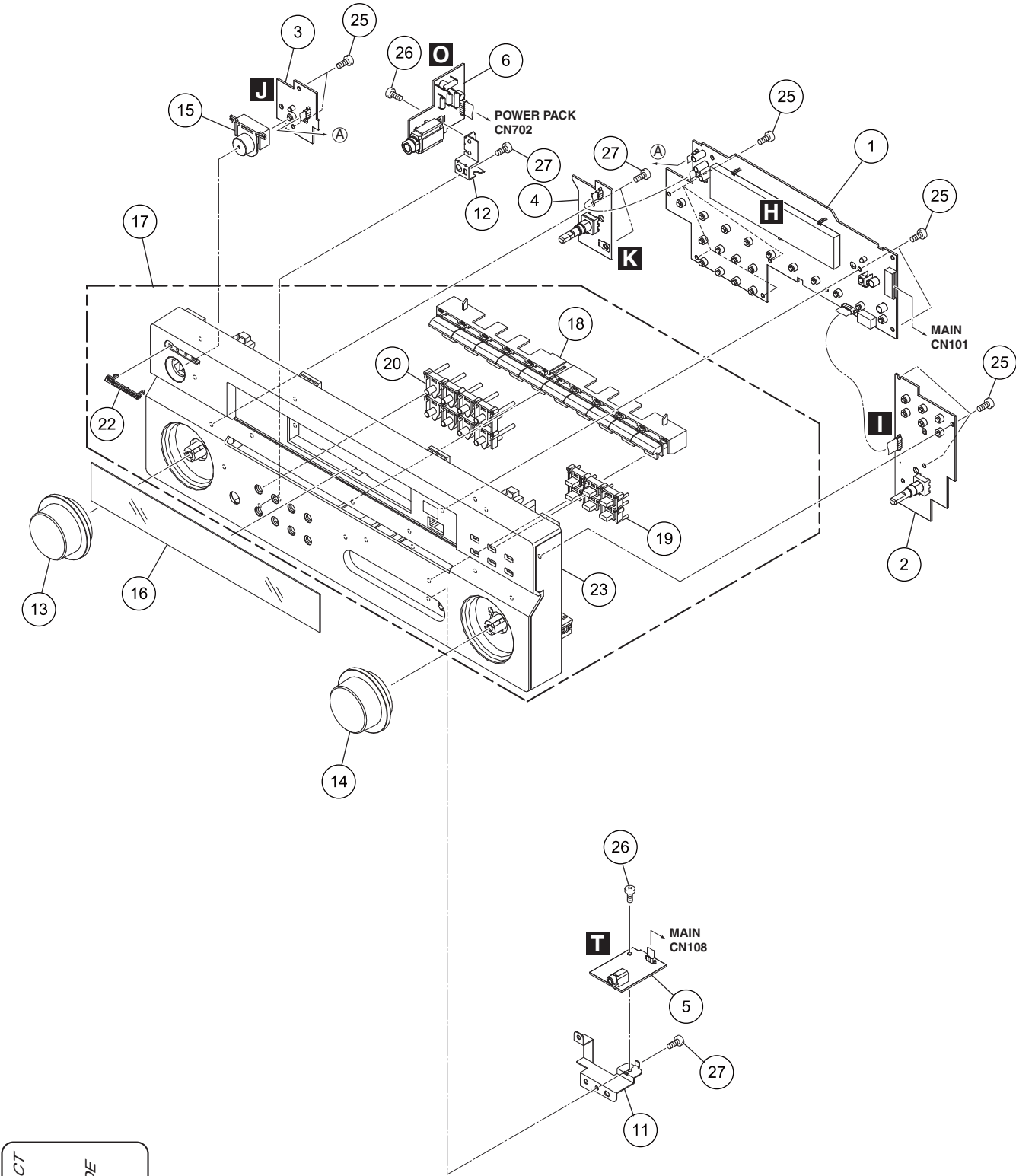
B

C

D

E

F



(1) FRONT PANEL SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	FRONT DISPLAY Assy	XWZ4283	16	D Panel PC	XAK3595	
2	ROTARY ENCODER Assy	XWZ4286	NSP 17	F Panel Assy	See Contrast table (2)	A
3	POWER KEY Assy	XWZ4287	18	FUNC BTN	See Contrast table (2)	
4	JOG Assy	XWZ4289	19	SUB BTN	See Contrast table (2)	
5	FRONT MINI JACK Assy	XWZ4296	20	TUNER BTN	See Contrast table (2)	
6	HEADPHONE Assy	XWZ4321	21	•••••		
7	•••••		22	Pioneer Name Plate	See Contrast table (2)	
8	•••••		23	FRT Panel	See Contrast table (2)	
9	•••••		24	•••••		
10	•••••		25	Screw	BBZ30P080FTC	
11	Earth Plate FR V3	XNG3144	26	Screw	BBZ30P080FNI	B
NSP 12	HP GND Plate	XNG3178	27	Screw	BPZ30P080FTC	
13	VOL Knob V4	See Contrast table (2)				
14	VOL Knob V5	See Contrast table (2)				
15	STANDBY BTN	See Contrast table (2)				

(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
NSP	13	VOL Knob V4	XAB3053	XAB3057
	14	VOL Knob V5	XAB3058	XAB3060
	15	STANDBY BTN	XAD3202	XAD3203
	17	F Panel Assy	XXG3359	XXG3360
	18	FUNC BTN	XAD3257	XAD3258
	19	SUB BTN	XAD3259	XAD3260
	20	TUNER BTN	XAD3261	XAD3262
	22	Pioneer Name Plate	XAM3006	VAM1129
	23	FRT Panel	XMB3308	XMB3309

10. SCHEMATIC DIAGRAM

10.1 MAIN ASSY (1/3)

A

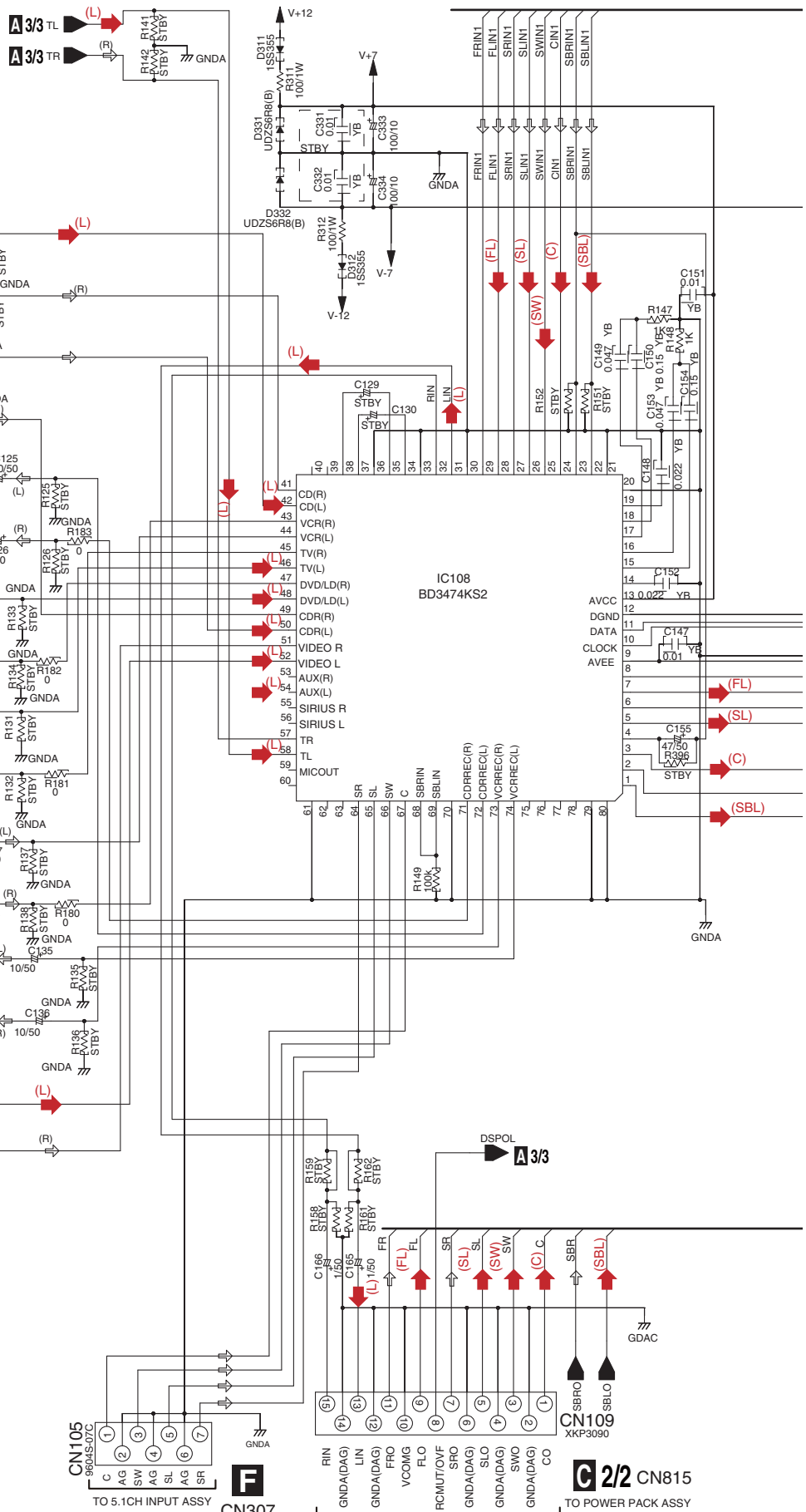
B

C

D

E

F

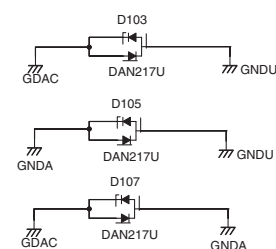


A 1/3

C 2/2 CN815
TO POWER PACK ASSY



For Wire Styling

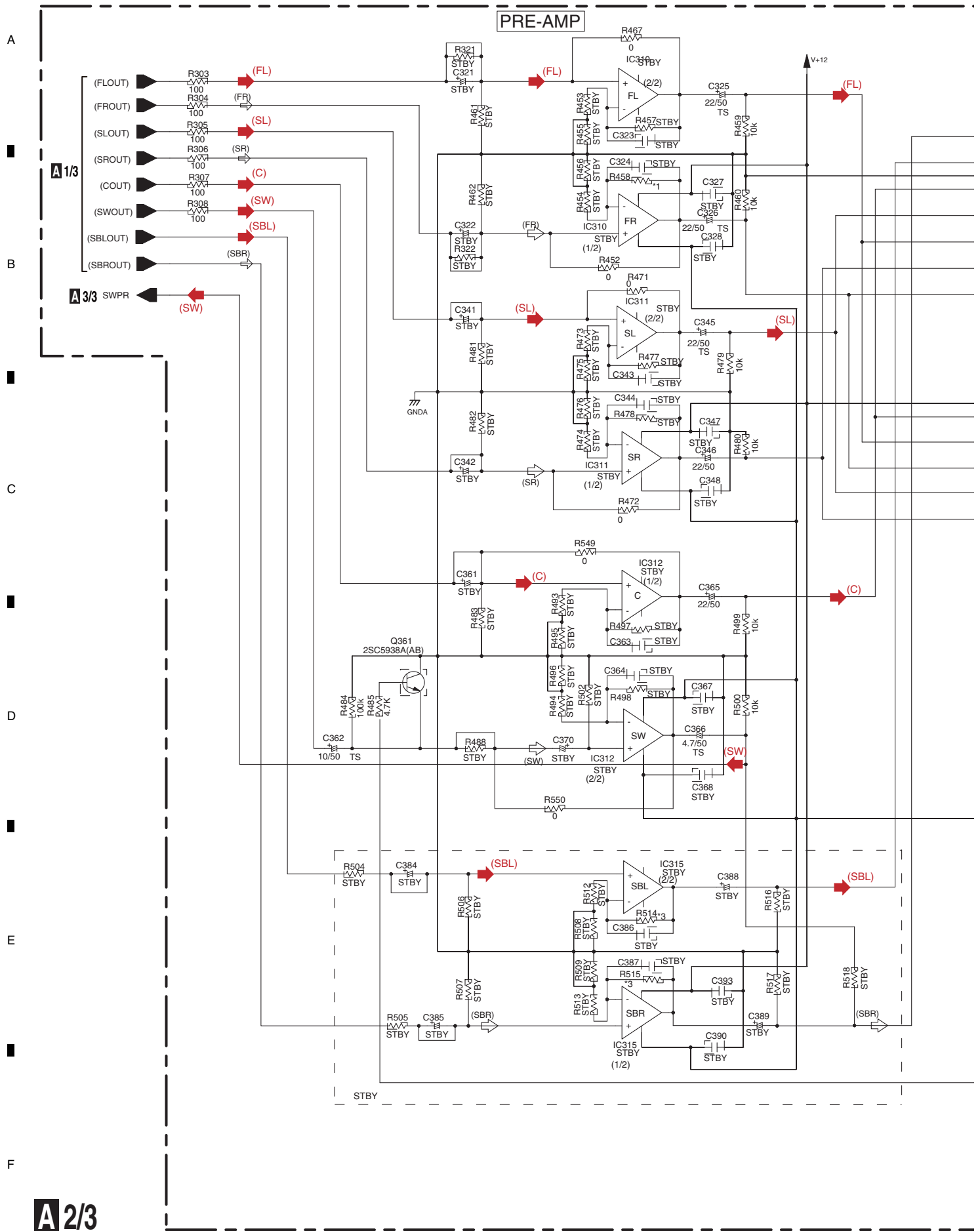


*1	Not used	*4	VSX-518
		CN125	XKB3055

MAIN ASSY(1/3)

- (L) : Audio Signal Route (L ch)
- (M) : Audio Signal Route (Mic ch)
- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (SBL) : Audio Signal Route (Surround Back L ch)
- (SW) : Audio Signal Route (SubWoofer ch)

10.2 MAIN ASSY (2/3)



A 2/3 MAIN ASSY (XWK3355)

TO MAIN ASSY
(TO MAIN ASSY 3/3)

A 3/3

CONTROL

(SBL)

(SB)

(C)

(SL)

(FL)

(SR)

(FR)

AMUTE

DCDT

XPROTECT

OLDT

F-DRIVE

A 3/3 6_OHM

C392 1000p YB

GNDU

C320

STBY

GNDCH

CN110
XKP3059

CN252
B3B-EH

FAN+

FAN-

FAN STOP

CN251
52147-0310

GNDU

GNDU

+24V

J22

XDX3064

NOTE

1.RESISTORS

Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

2.CAPACITORS

Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

JA:CEJA

➔ : AUDIO SIGNAL FLOW

MAIN ASSY(2/3)

FAN CONTROL

*5	
D253	UDZS27(B)
D255	-
R280	0
Q255	RT1N241M
R463	-
R464	0

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center ch)

(SBL) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (Subwoofer ch)

VSX-518-K

A 2/3

4



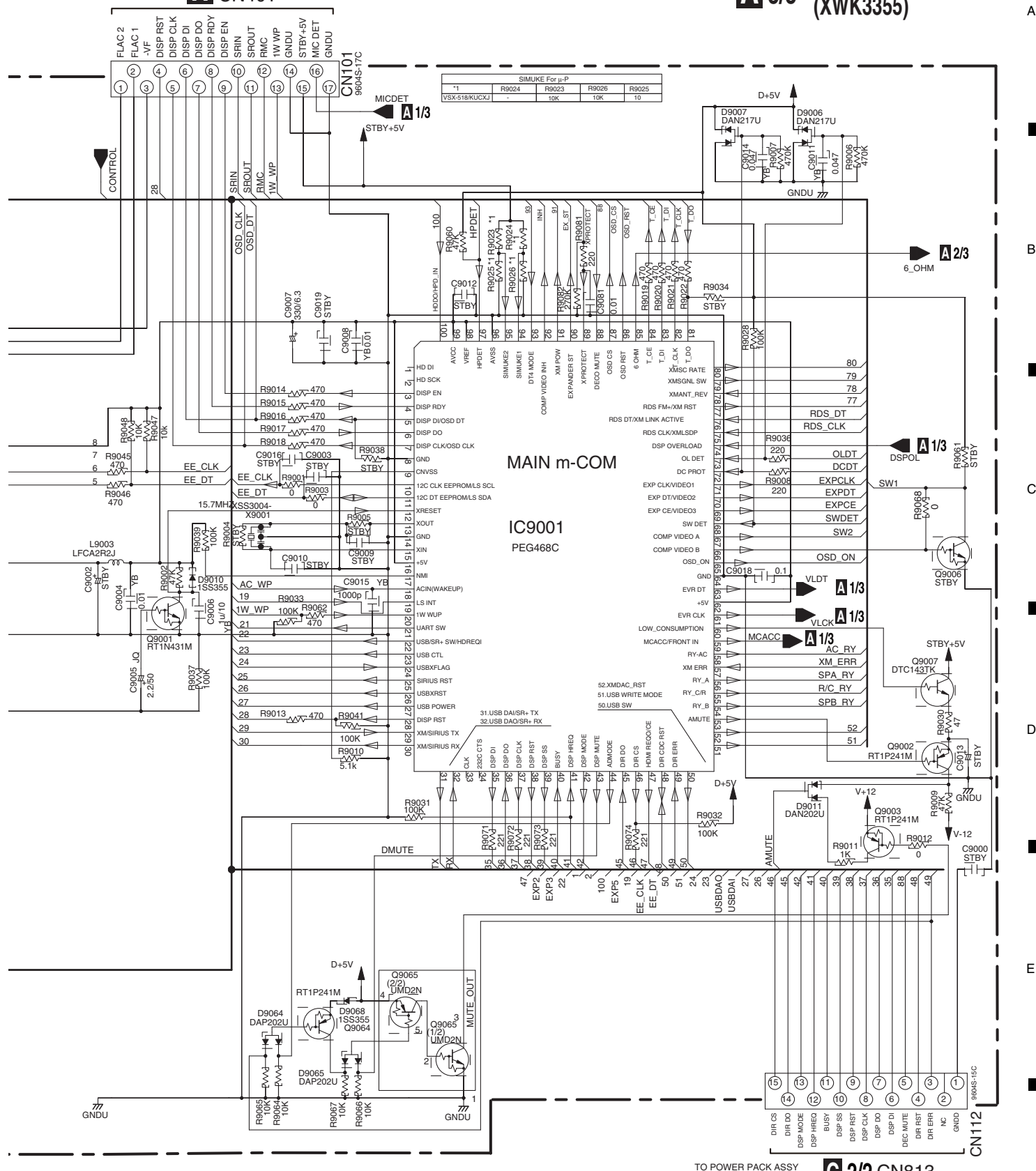
42

VSX-518-K

C 2/2 CN816

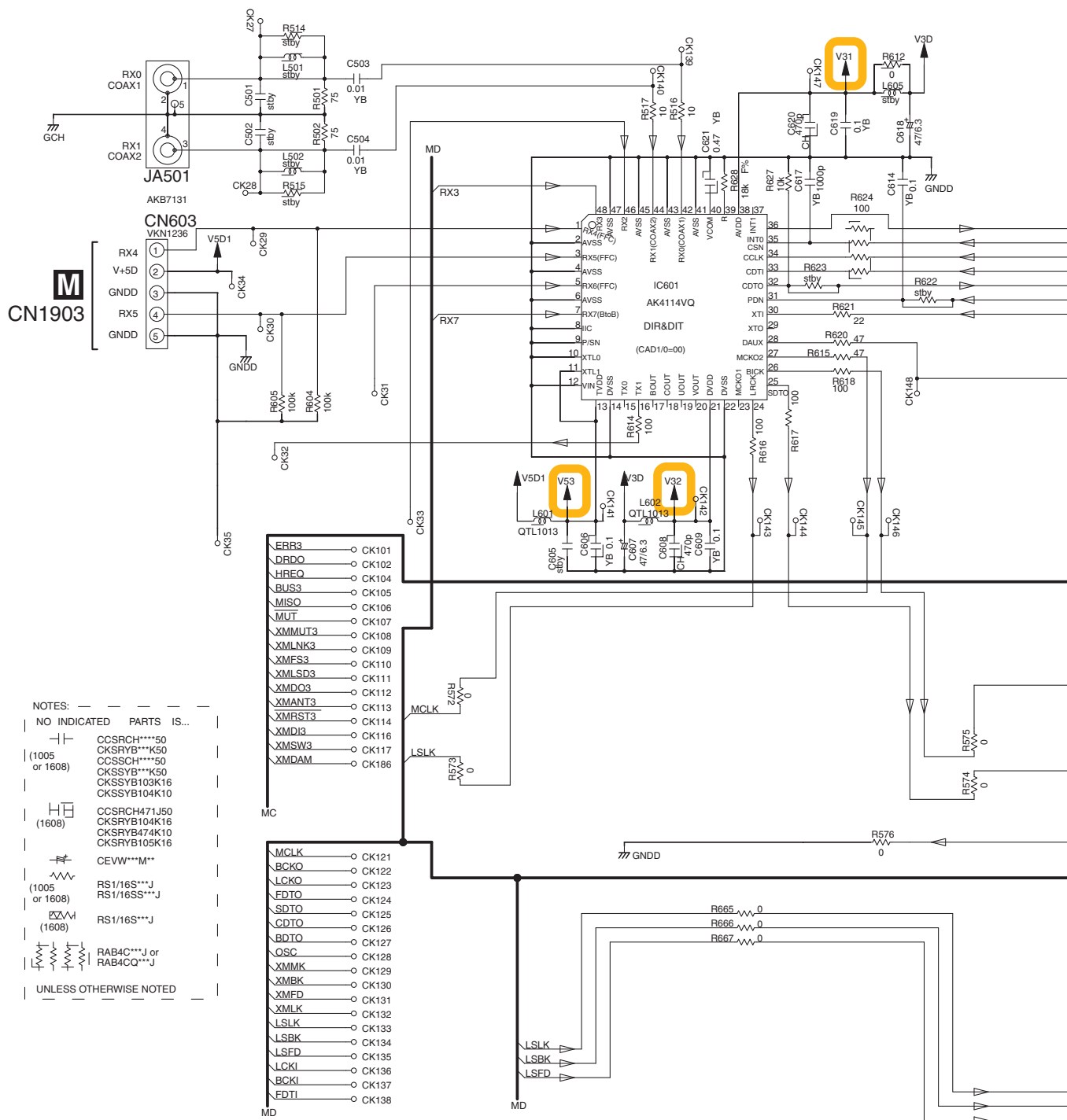
H CN401

TO FRONT DISPLAY ASSY

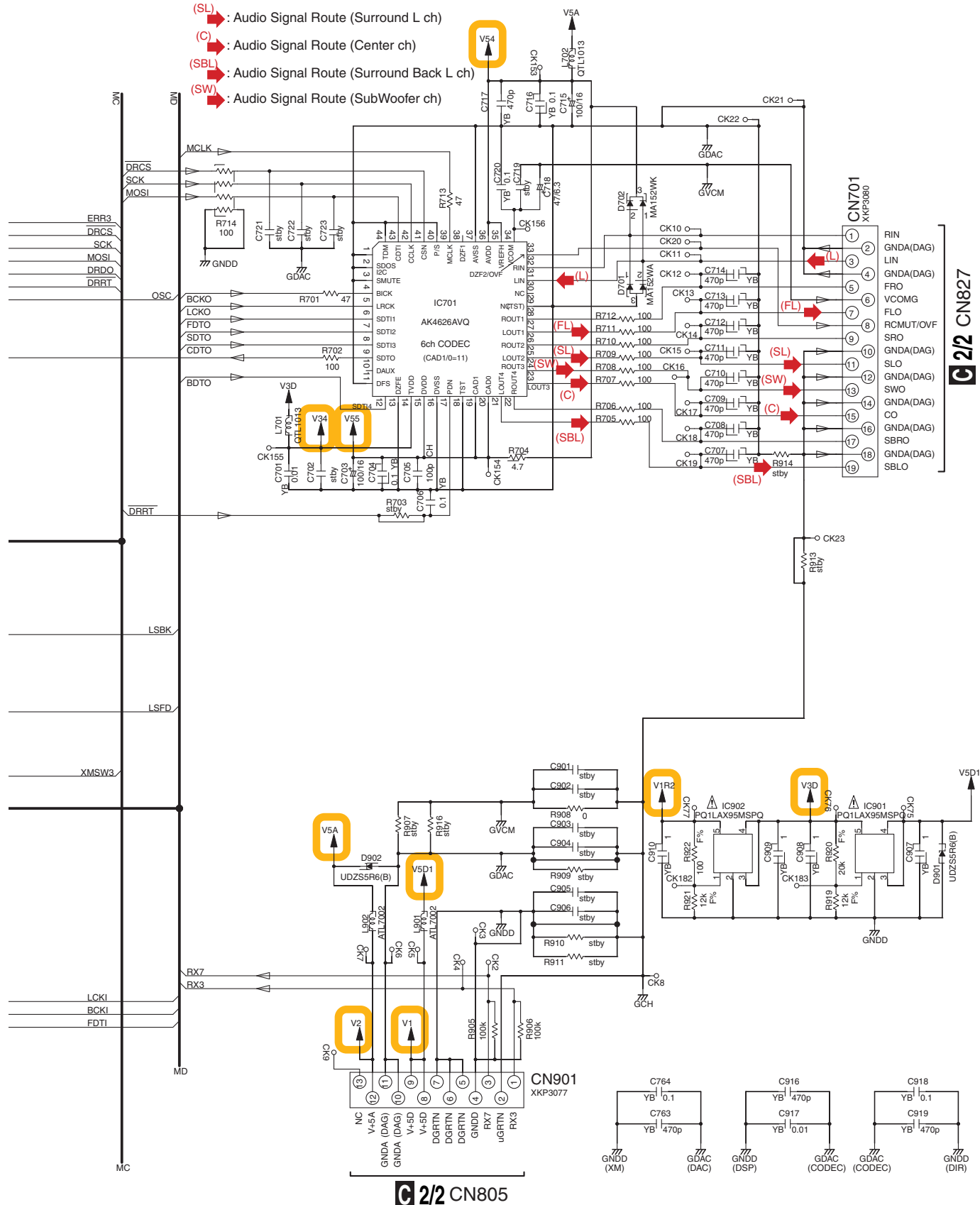
A 3/3 MAIN ASSY
(XWK3355)**A** 3/3

10.4 DSP ASSY (1/2)

B 1/2 DSP ASSY (AWX8980)



- (L) : Audio Signal Route (L ch)
 (FL) : Audio Signal Route (Front L ch)
 (SL) : Audio Signal Route (Surround L ch)
 (C) : Audio Signal Route (Center ch)
 (SBL) : Audio Signal Route (Surround Back L ch)
 (SW) : Audio Signal Route (SubWoofer ch)



C 2/2 CN805

VSX-518-K

B 1/2

1

2

3

△

A



D

E

F

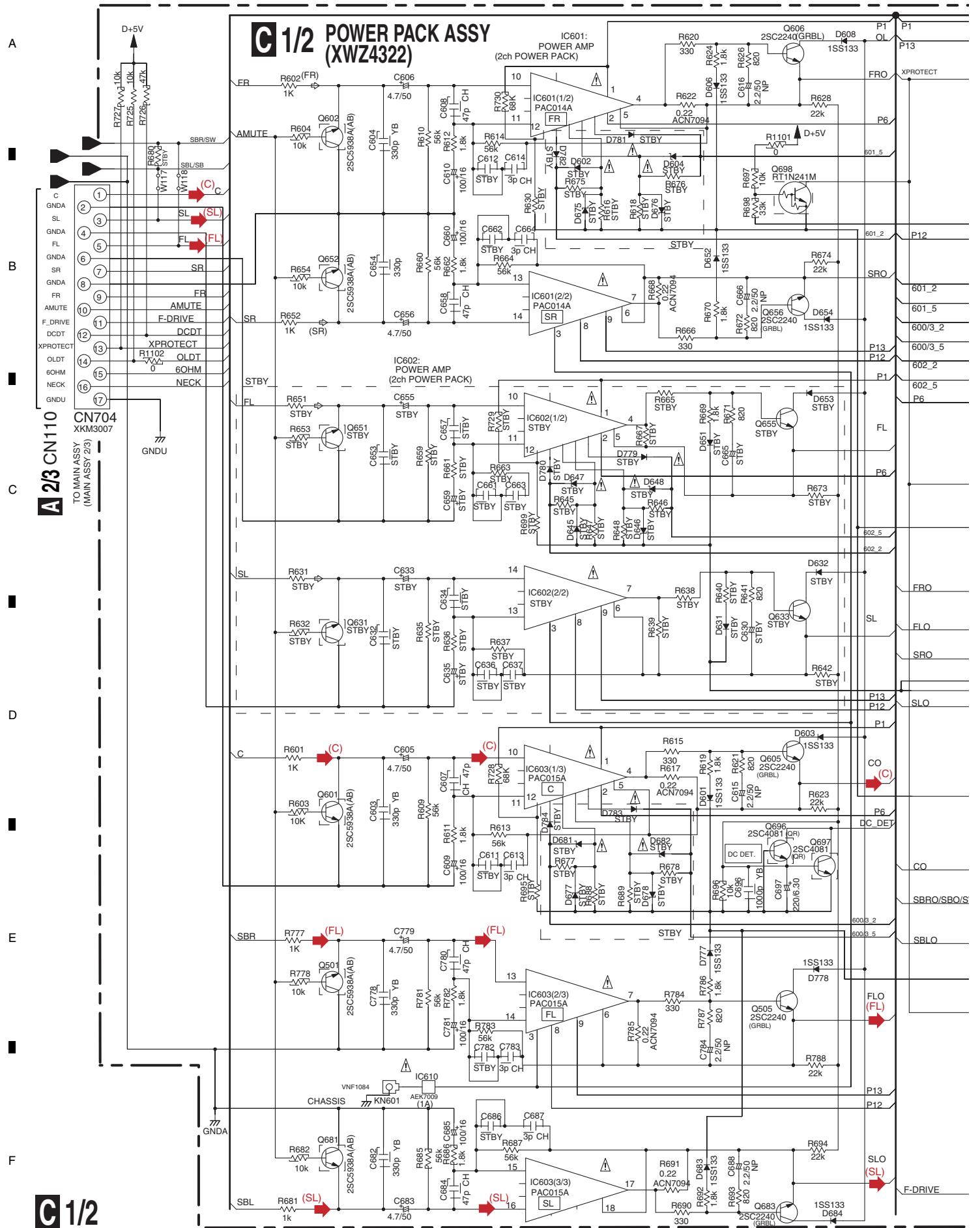
2

3

4



10.6 POWER PACK (1/2) and TRANS2 ASSY

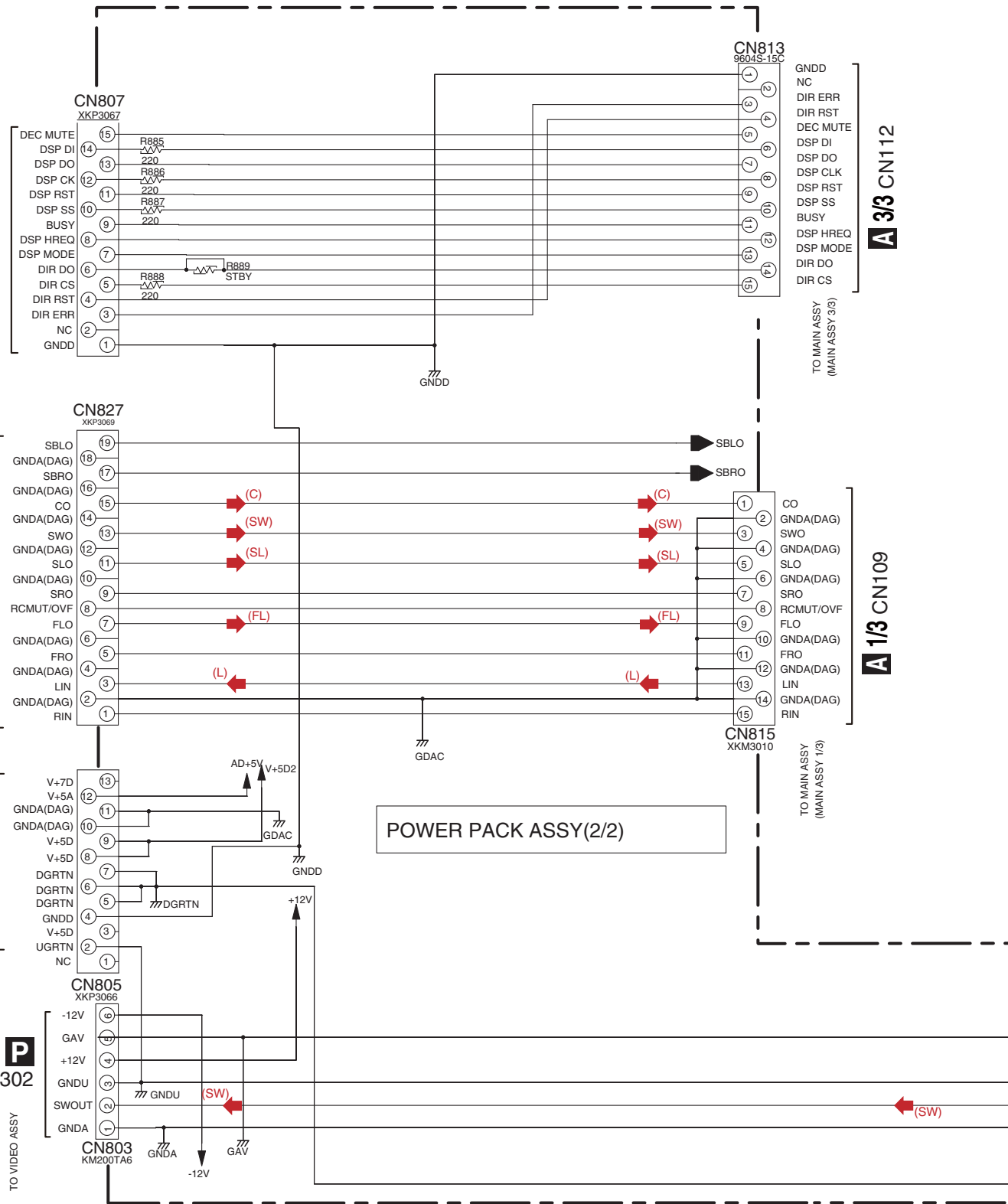




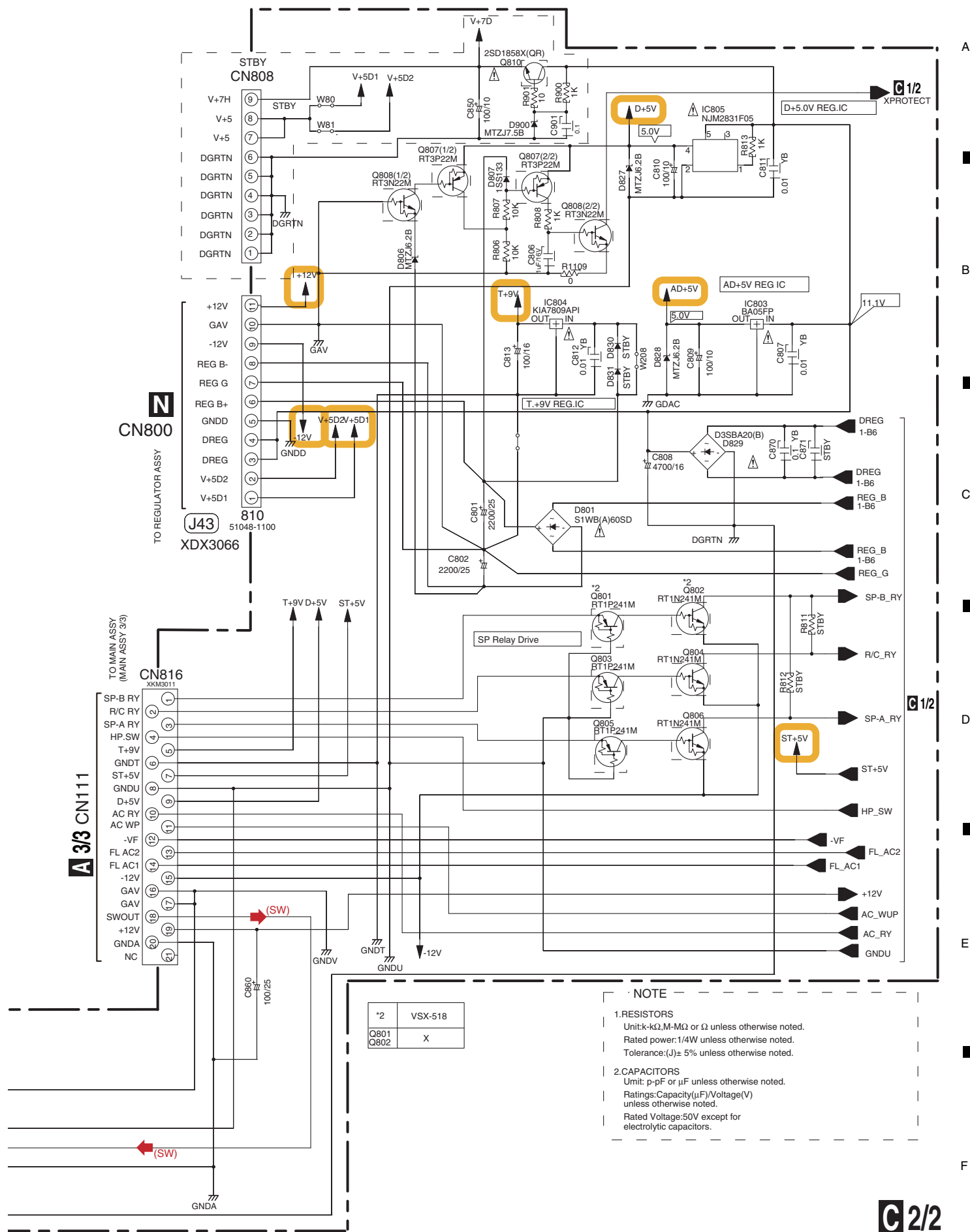
10.7 POWER PACK ASSY (2/2)

- (L) : Audio Signal Route (L ch)
- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (SW) : Audio Signal Route (SubWoofer ch)

C 2/2 POWER PACK ASSY (XWZ4322)



POWER PACK ASSY(2/2)



10.8 COMPONENT VIDEO, 5.1CH INPUT and TRANS3 ASSYS

A

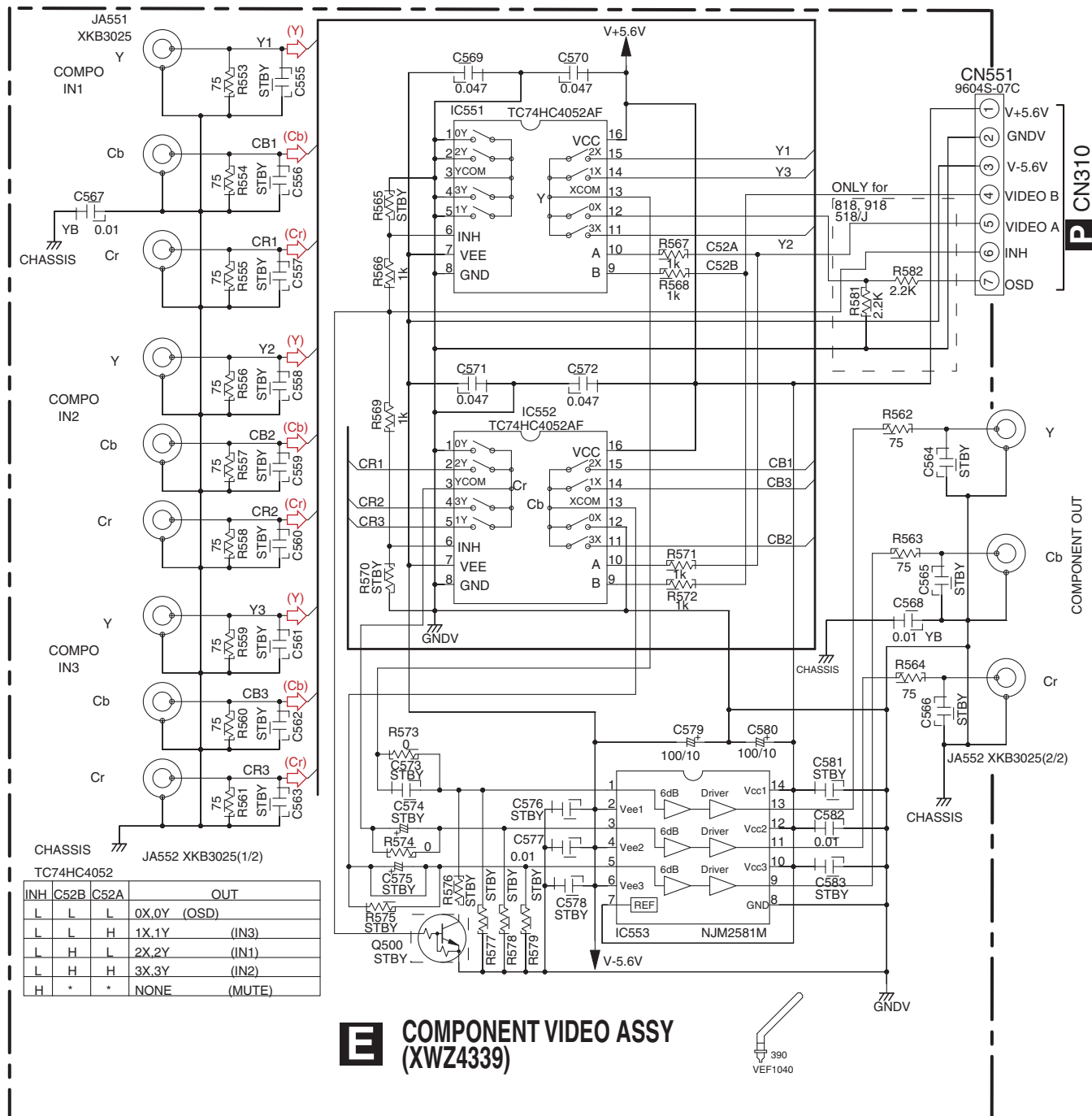
B

C

D

E

F



(Y) : Video Signal Route (Component Y ch)
 (Cb) : Video Signal Route (Component Cb ch)
 (Cr) : Video Signal Route (Component Cr ch)

NOTE

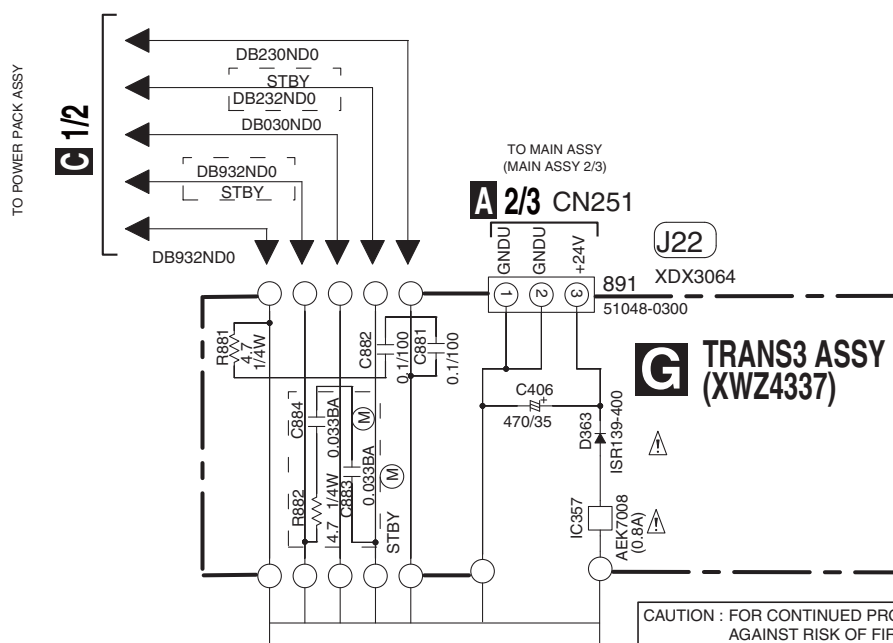
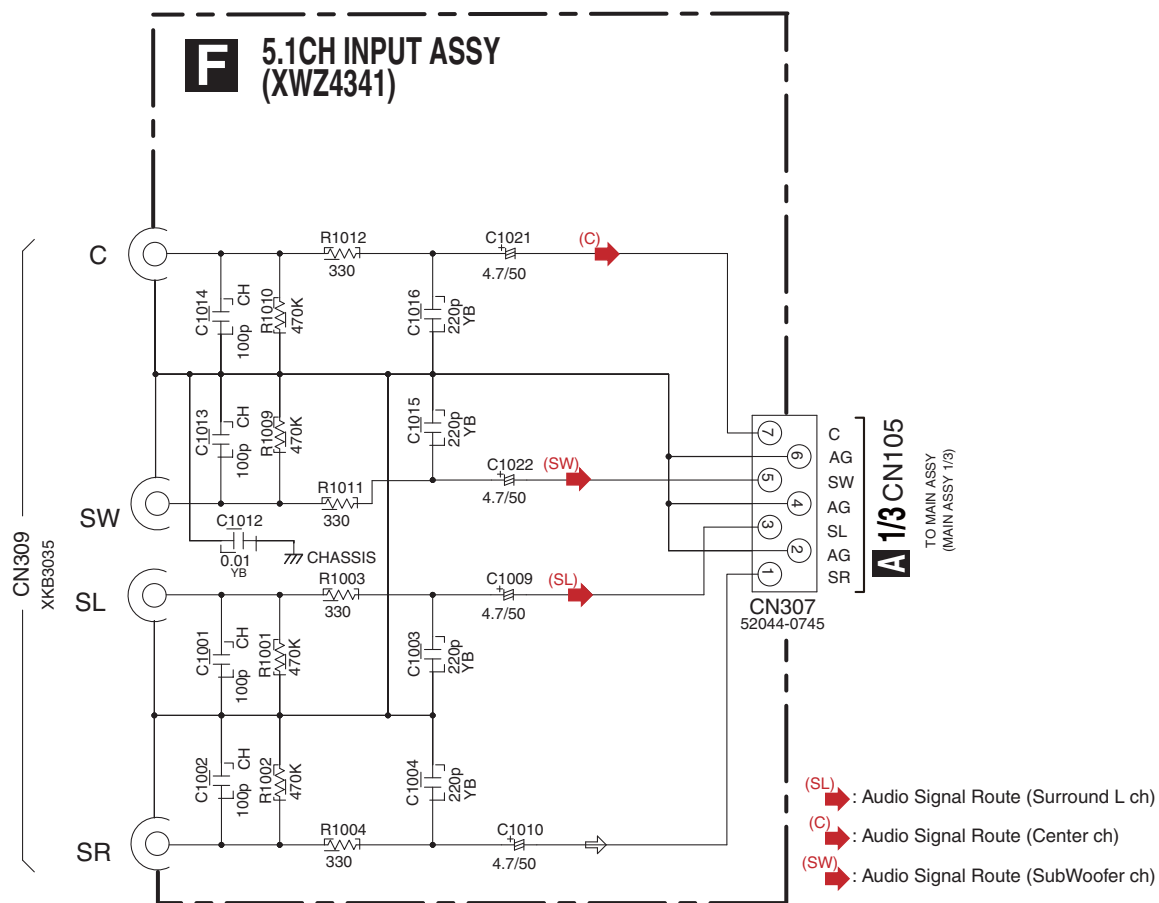
1.RESISTORS

Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated power: 1/16W unless otherwise noted.
 Tolerance: (J) ± 5% unless otherwise noted.

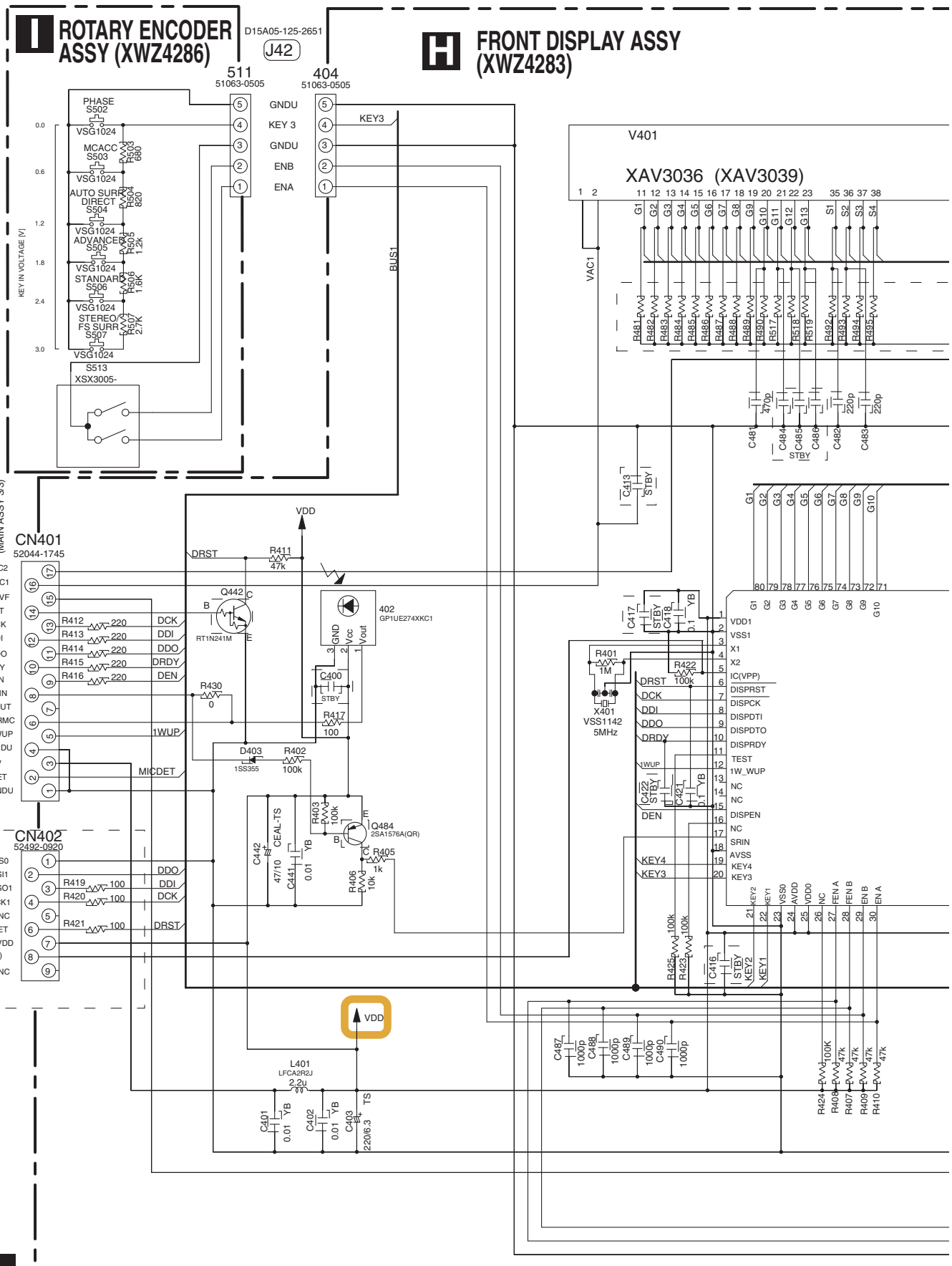
2.CAPACITORS

Unit: p-pF or μF unless otherwise noted.
 Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
 Rated Voltage: 50V expect for electrolytic capacitors.





10.9 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS





F

TO POWER PACK ASSY

C 2/2 810

*1	OTHERS
IC809	-
C809	-
C810	-
R809	-
R810	-
R820	-
D814	-
IC807	-
R819	-
C817	-
C816	-
D813	-
IC808	KIA7805API
W376	O
W379	-
W380	-
W378	-

J43
XDX3066CN800
52147-1110

V+5D1

V+5D2

DREG INPUT

DREG INPUT

GNDD

REG B+

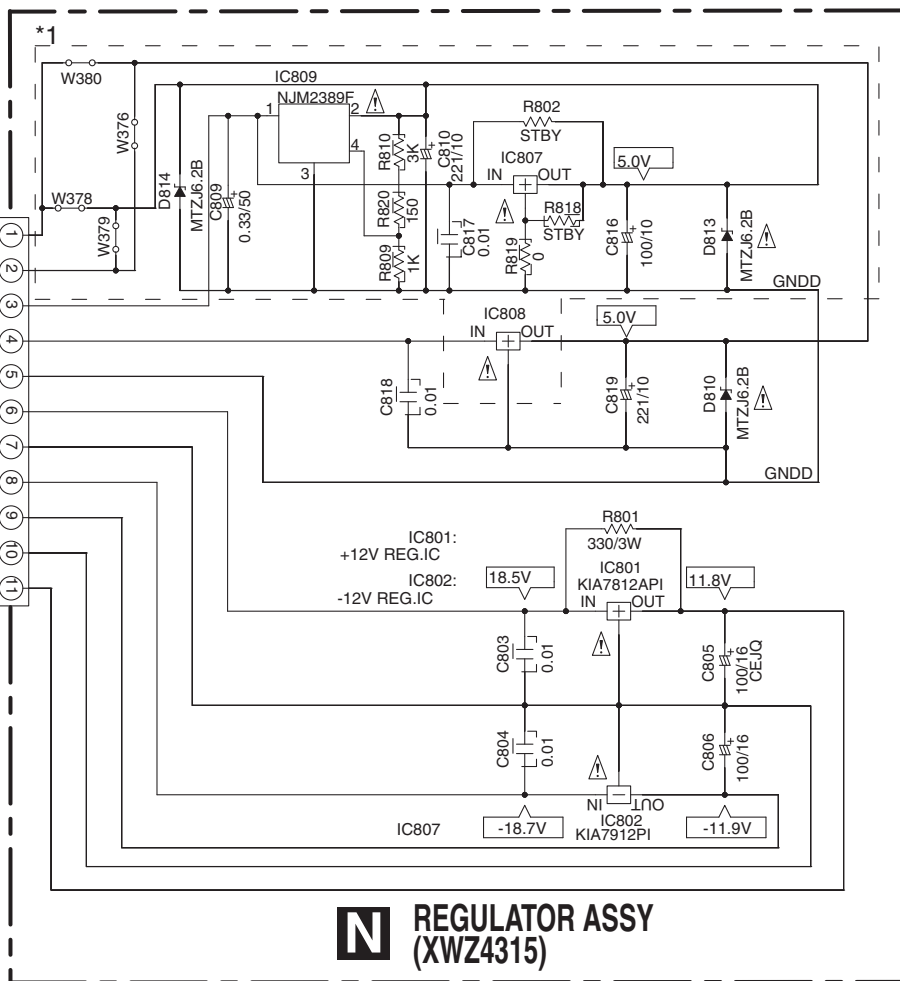
REG G

REG B-

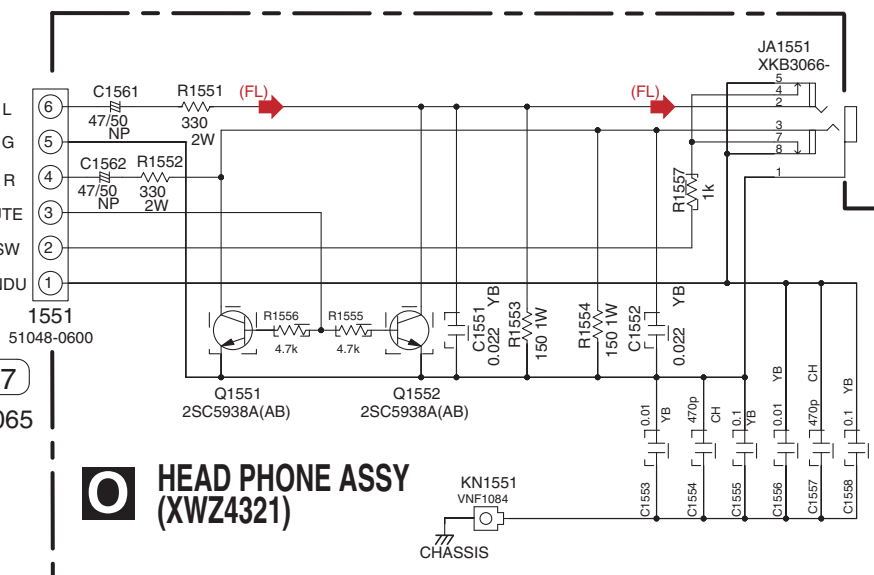
-12V

GAV

+12V

**N** REGULATOR ASSY
(XWZ4315)

TO POWER PACK ASSY

C 1/2 CN702**J47**
XDX3065**O** HEAD PHONE ASSY
(XWZ421)

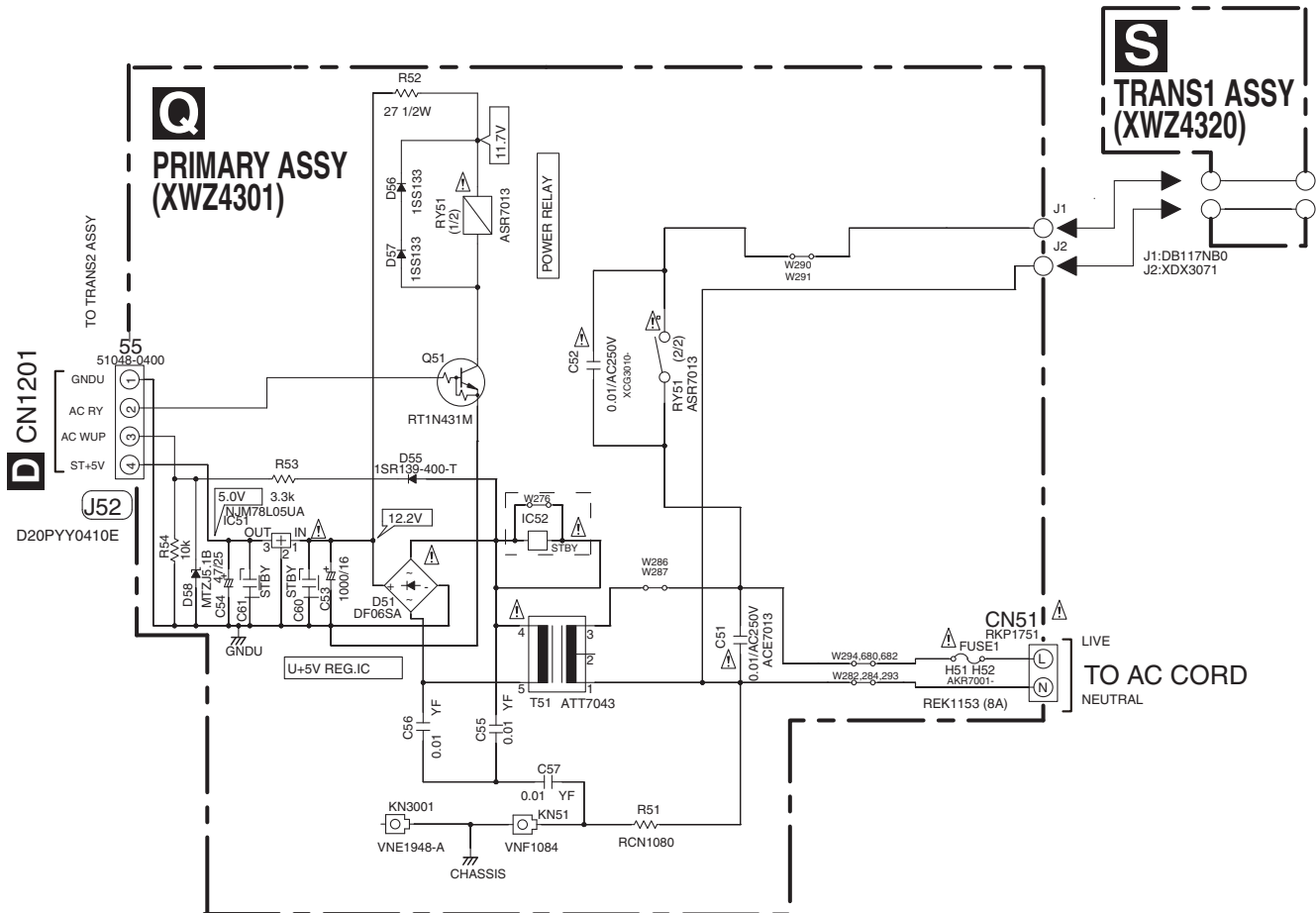
(FL) : Audio Signal Route (Front L ch)

VSX-518-K

N **O**

△





NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

(V) : Video Signal Route
(L) : Audio Signal Route (L ch)
(SW) : Audio Signal Route (SubWoofer ch)

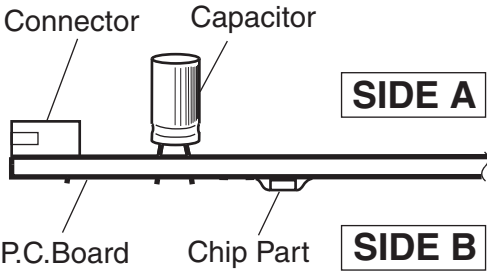
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

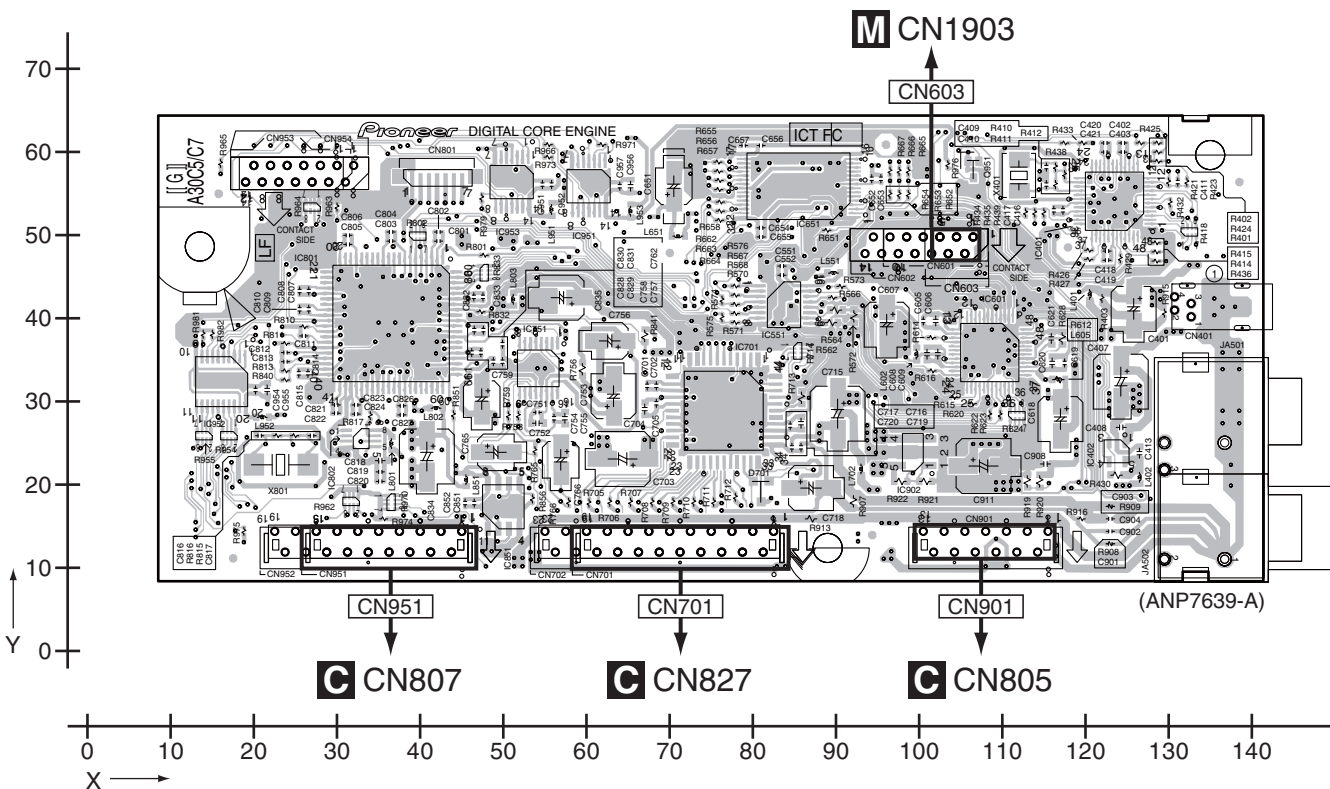


11.1 DSP ASSY

SIDE A

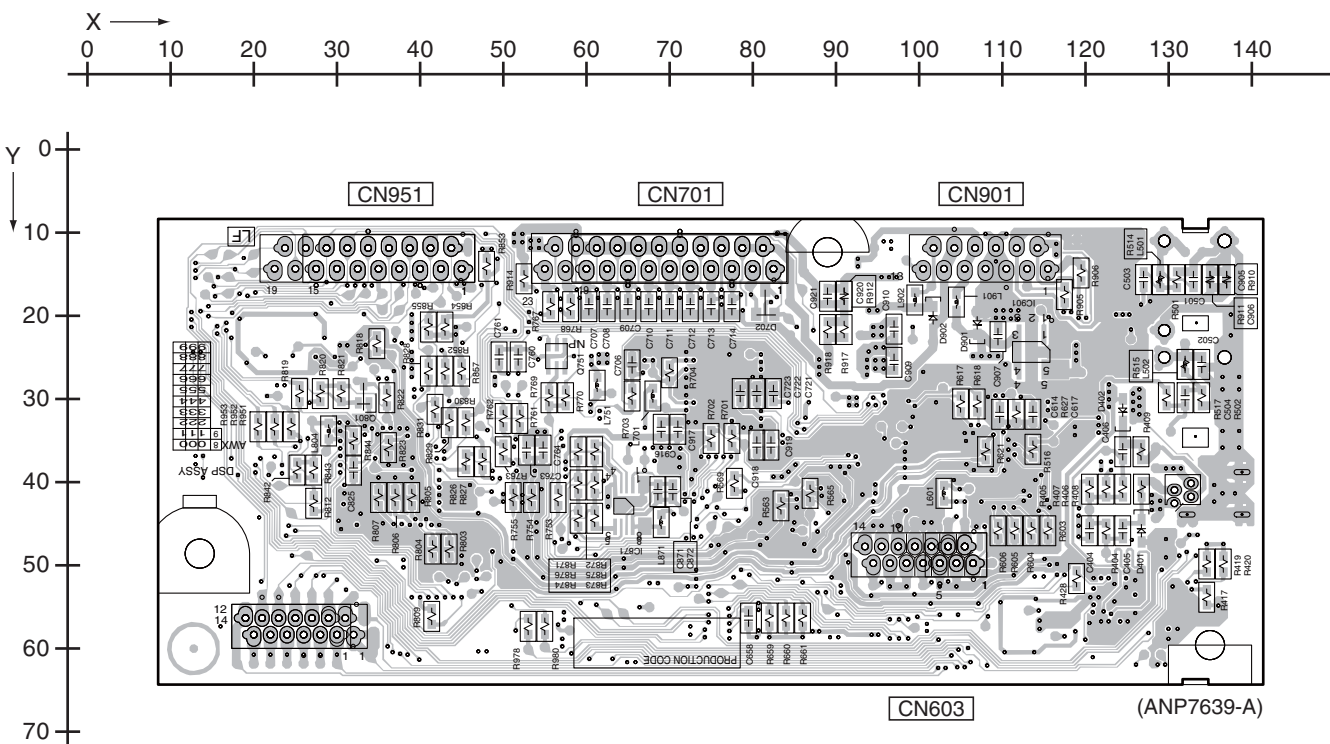
B DSP ASSY

SIDE A



SIDE B

SIDE B



B

B DSP ASSY

B

VSX-518-K

11.2 MAIN ASSY

SIDE A

A MAIN ASSY

L 971

G 891

DC Fan Motor

H CN401

(XNP3127-B)

C CN813

B CN953

for FLASH

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160
X →

VSX-518-K

A



F

63

1

2

3

4

SIDE B

A

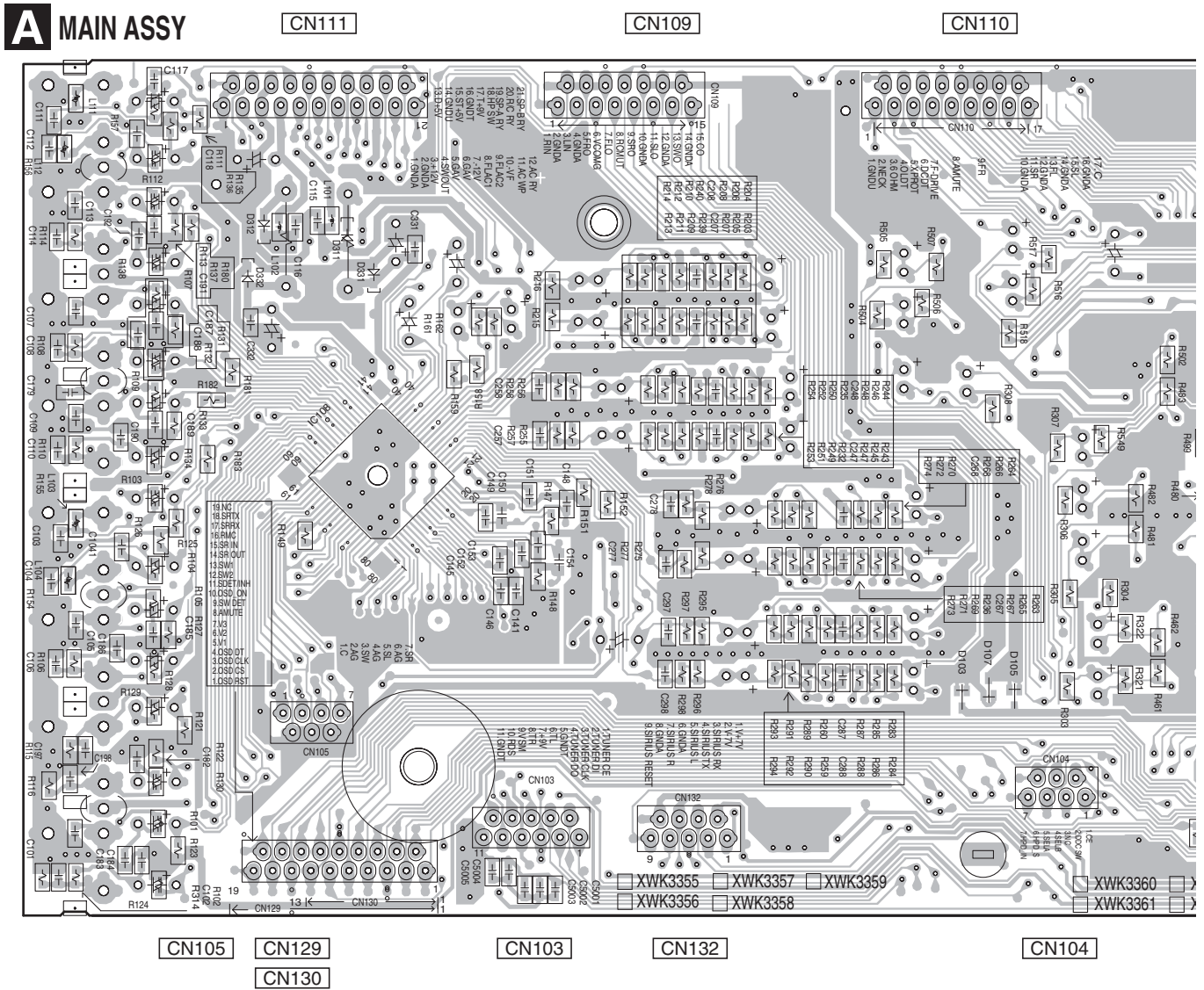
B

C

D

E

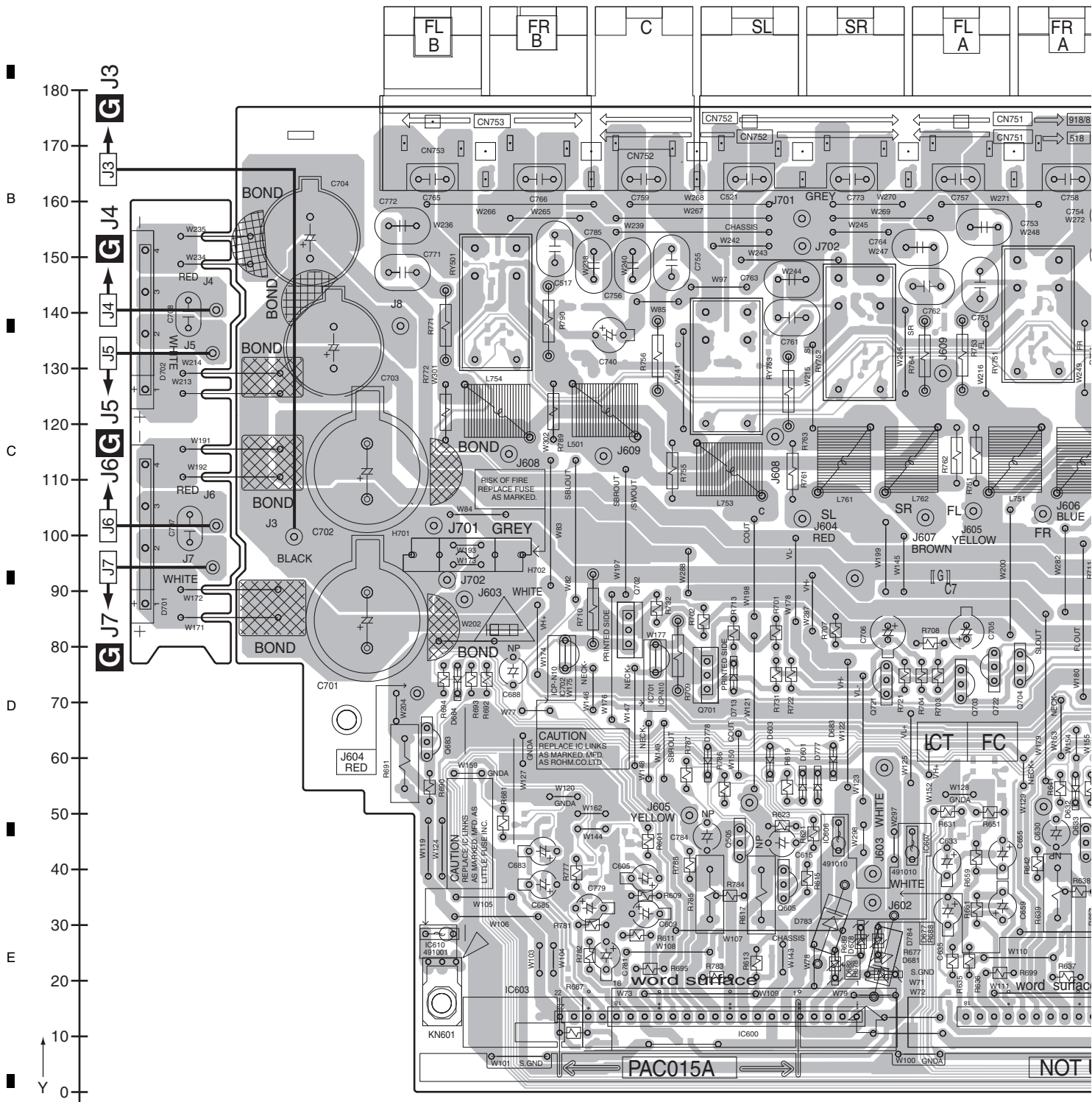
F



11.3 POWER PACK ASSY

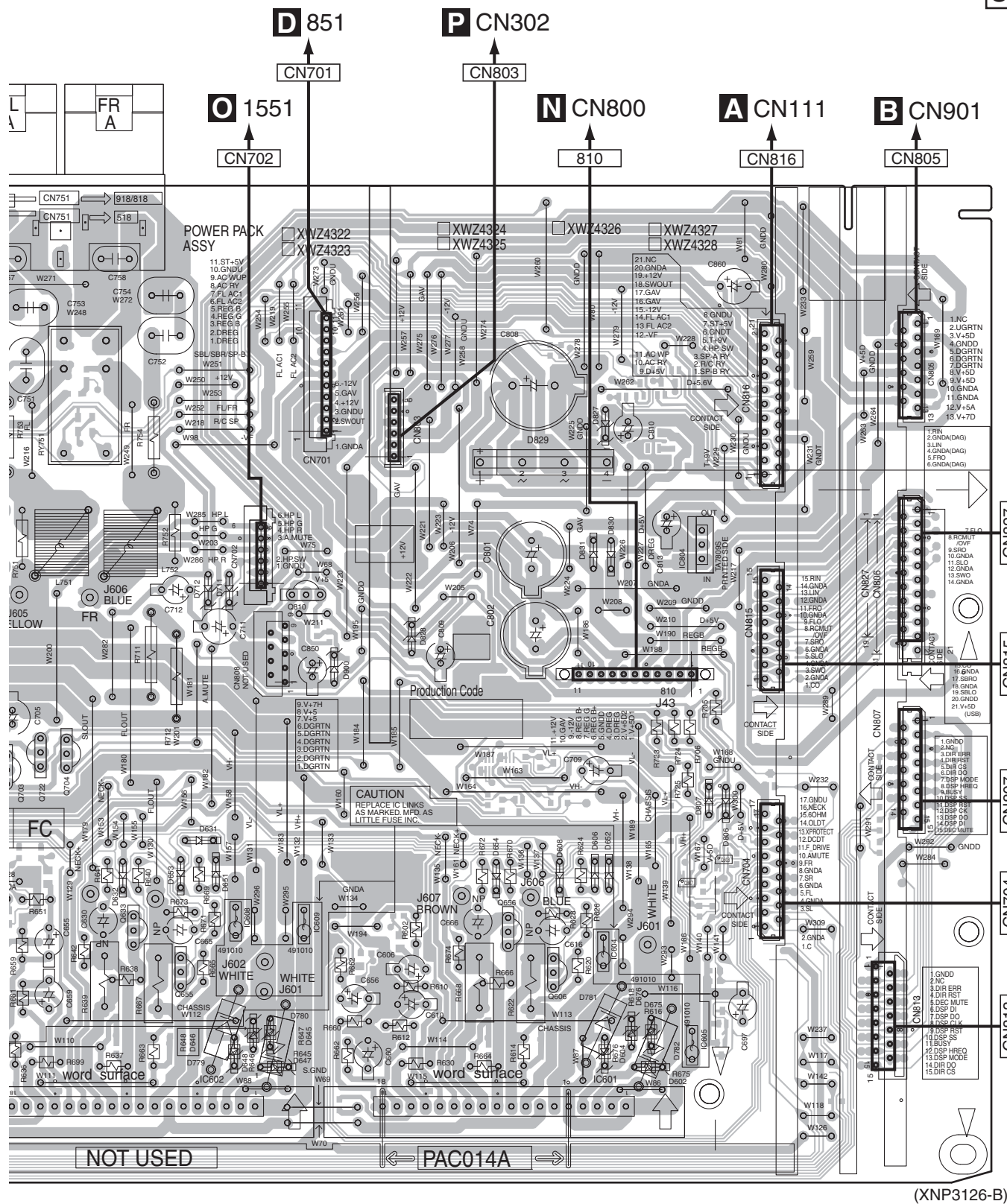
SIDE A

C POWER PACK ASSY



SIDE A

A



B

C

D

E

F

1

2

3

4

SIDE B

C POWER PACK ASSY

CN805

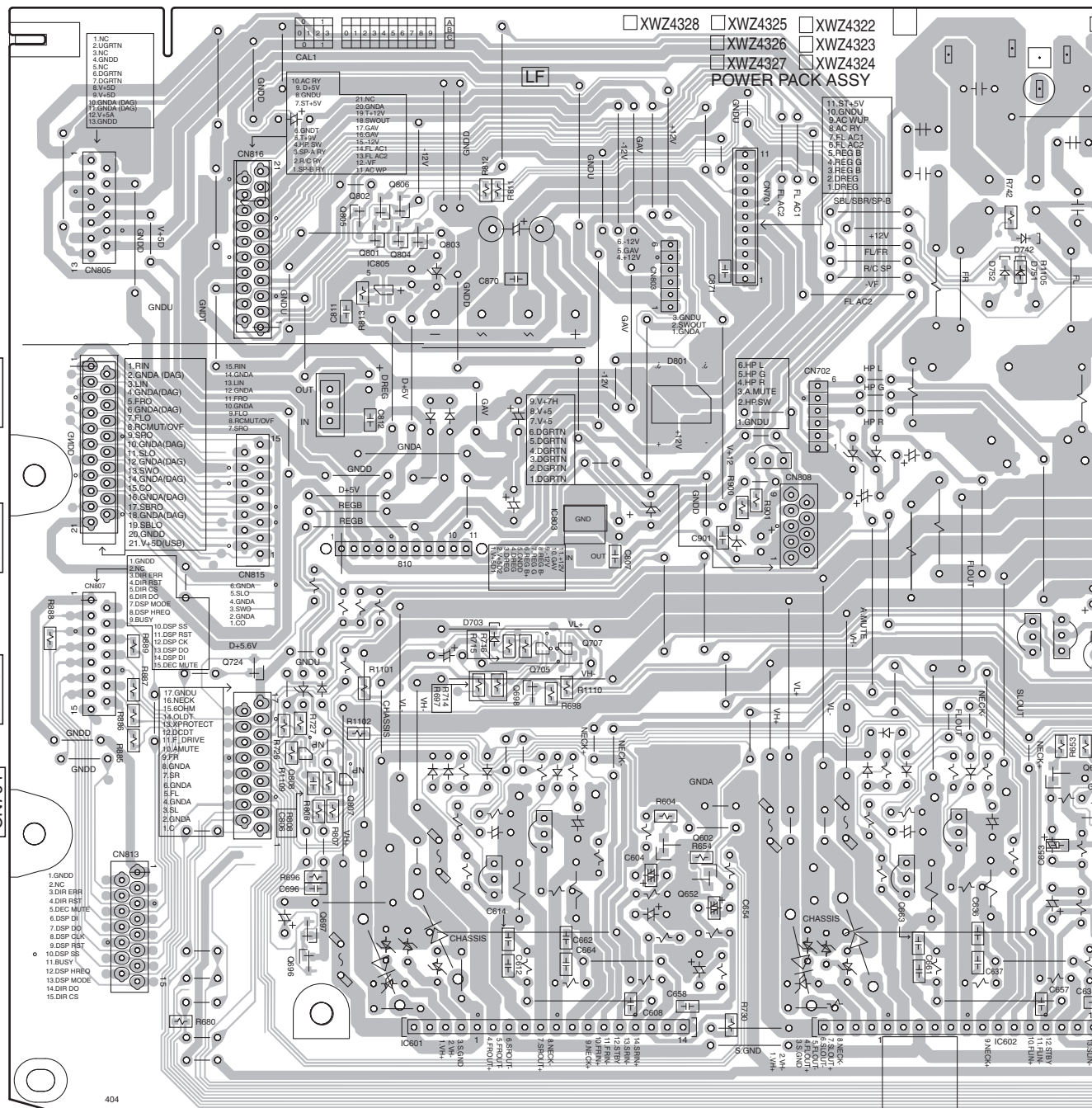
CN816

810

CN803

CN701

CN702



404

330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160

C

68

VSX-518-K

1

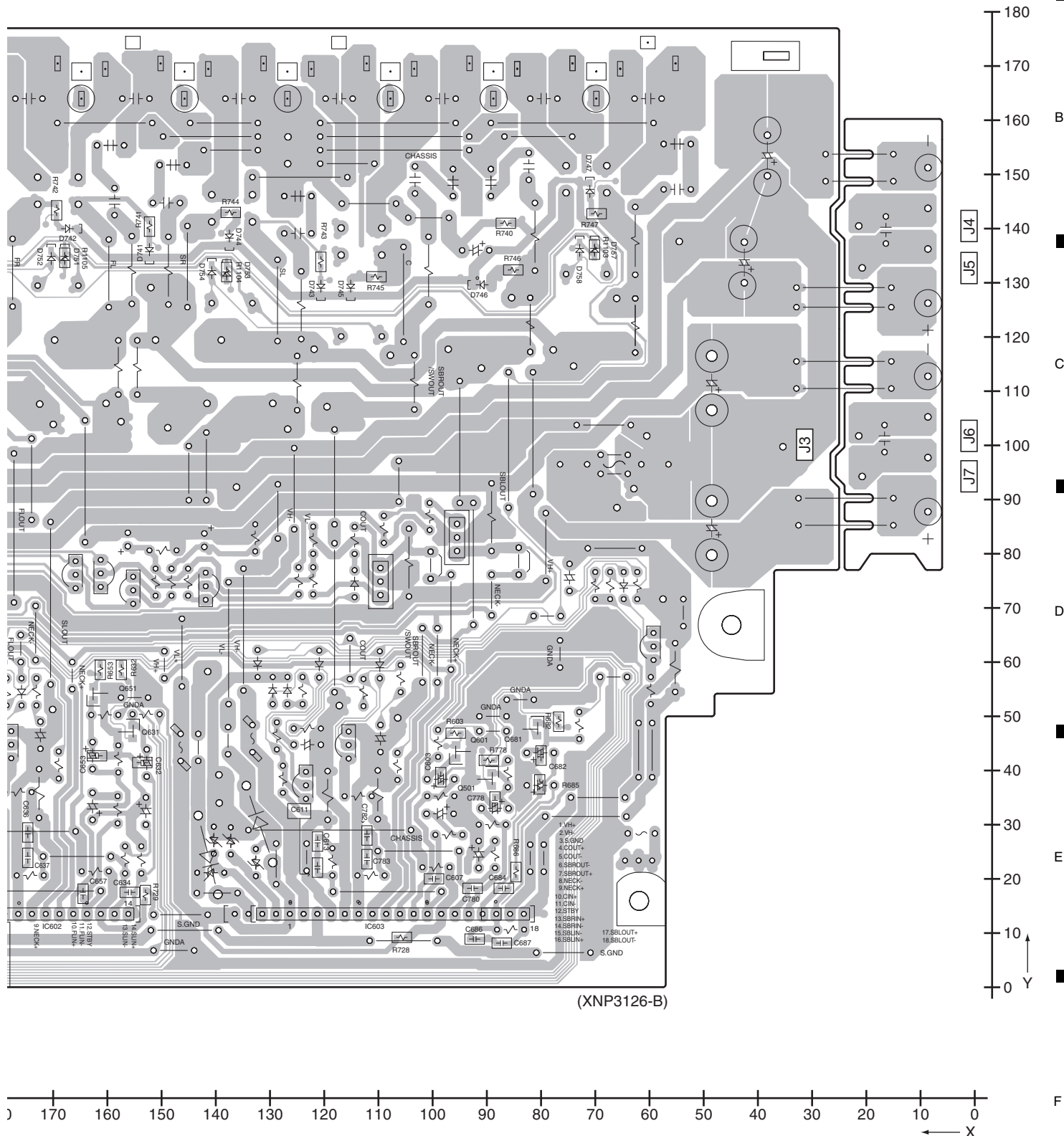
2

3

4

SIDE B

A



(XNP3126-B)

VSX-518-K

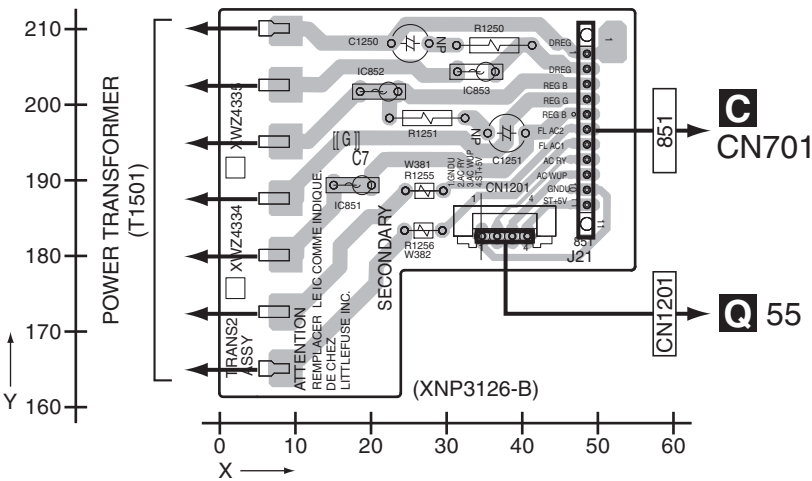
C

69

11.4 TRANS2 and TRANS3 ASSYS

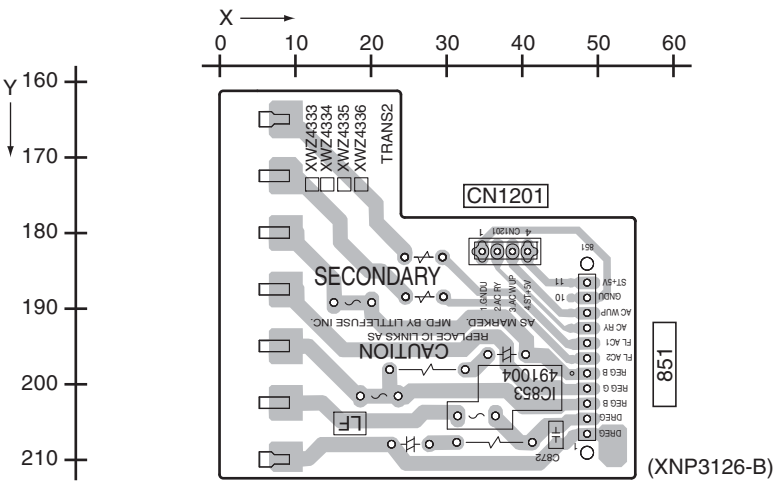
SIDE A

D TRANS2 ASSY



SIDE B

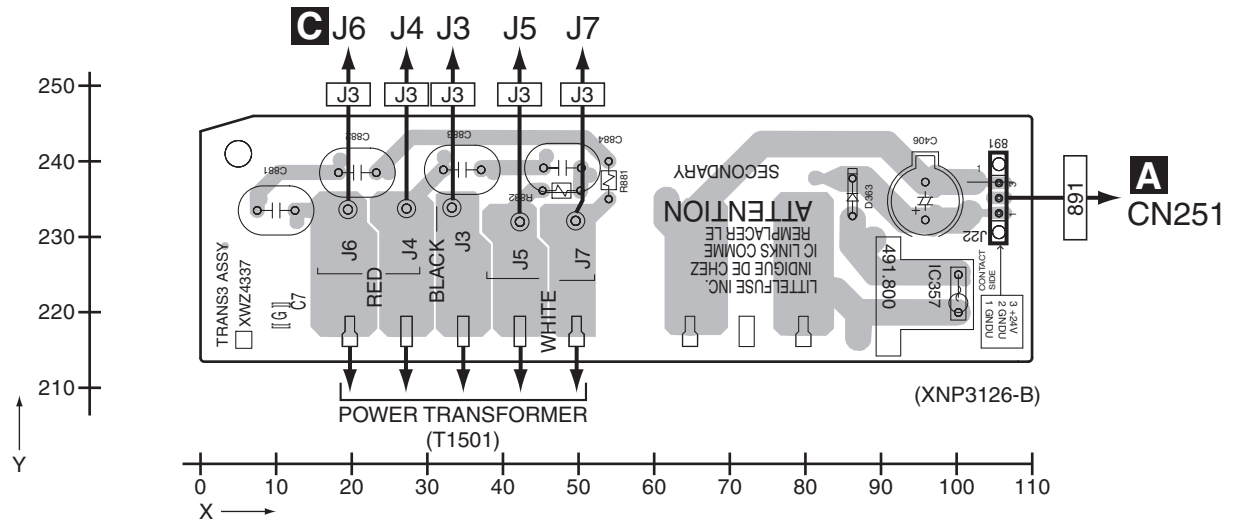
D TRANS2 ASSY



D

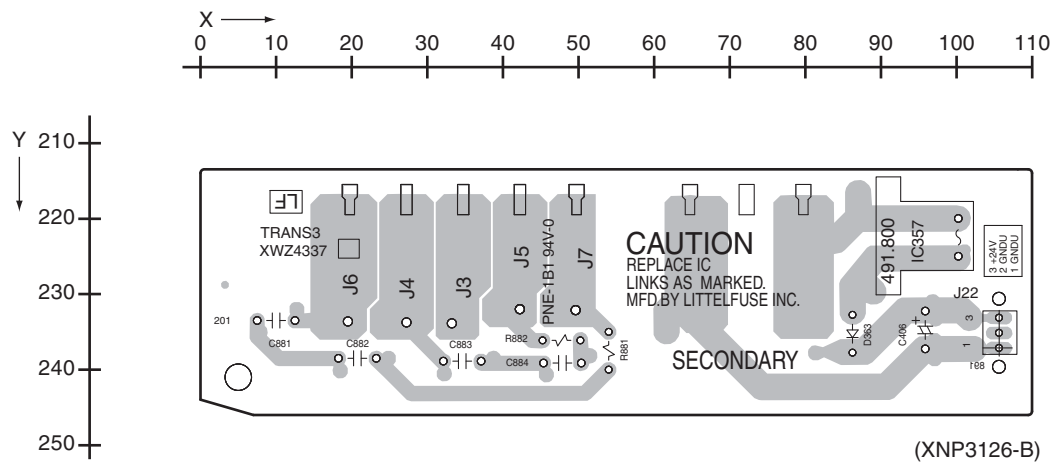
SIDE A

A

G TRANS3 ASSY

B

C

SIDE B**G** TRANS3 ASSY

D

E

F

△

A

E

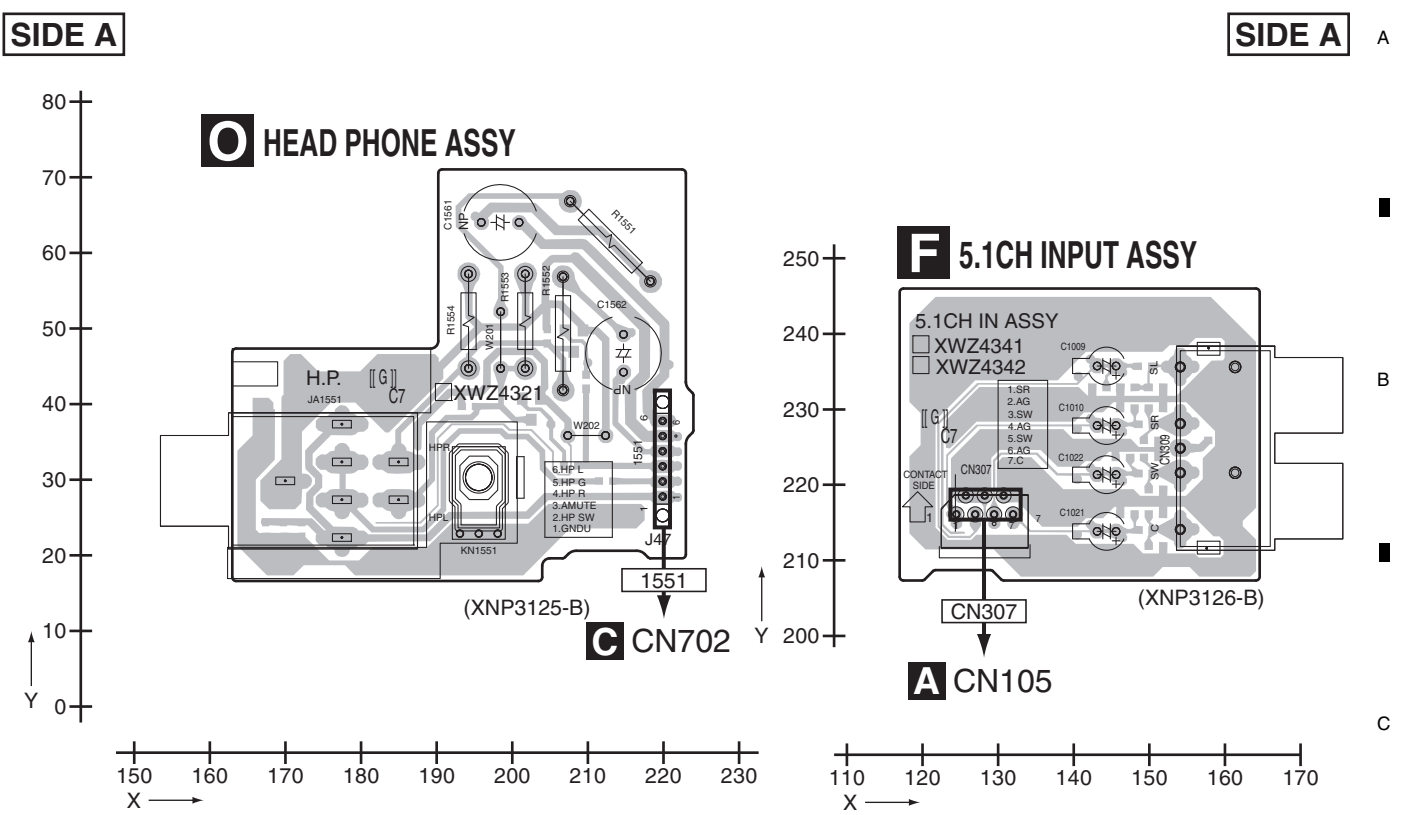


D

E



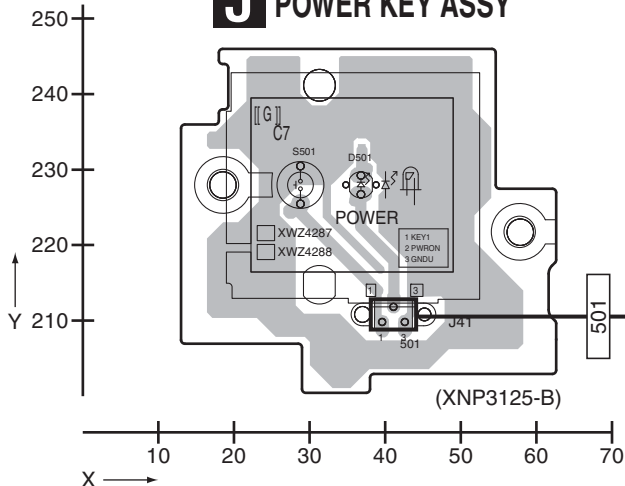
E



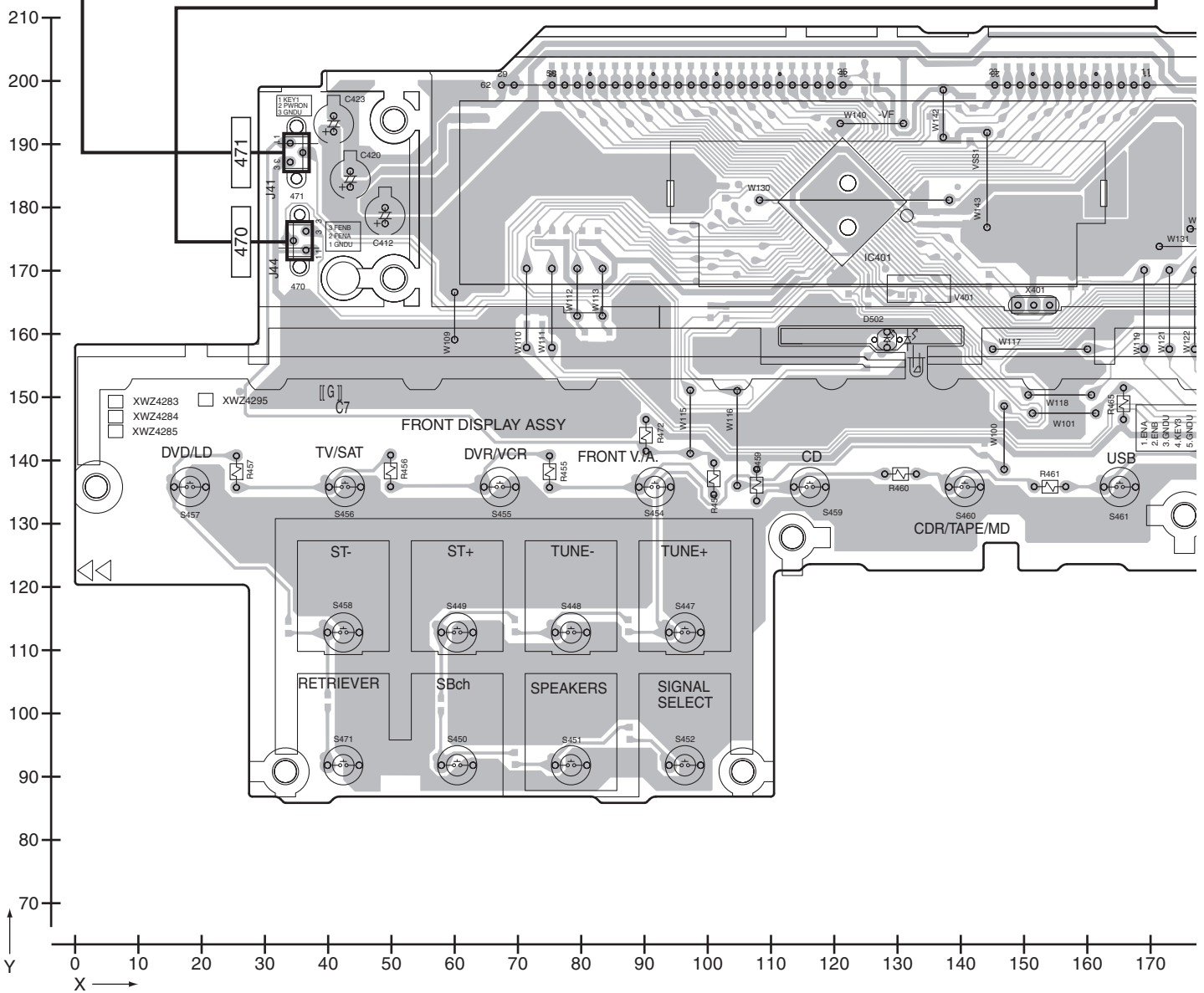
11.7 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS

SIDE A

J POWER KEY ASSY



H FRONT DISPLAY ASSY



H J

A

E

C

D

E

F

Top view of the XNP3125-B unit. The diagram shows the internal layout with various components labeled. A coordinate system is provided with X (horizontal) and Y (vertical) axes. The X-axis ranges from 50 to 130, and the Y-axis ranges from 210 to 250. Key components and dimensions include:

- Dimensions:**
 - Overall width: 150 (from X=50 to X=125)
 - Overall height: 40 (from Y=210 to Y=250)
 - Internal width: 50 (from X=60 to X=110)
 - Internal height: 30 (from Y=220 to Y=250)
- Components:**
 - J44:** A connector with pins 1, 2, 3, and 4. Pin 1 is labeled "1. GND U", pin 2 is "2. FEN A", and pin 3 is "3. FEN B".
 - JOG ASSY:** A joystick assembly with a square button labeled "XWZ4289".
 - KN512:** A connector with pins 1, 2, 3, and 4.
 - S512:** A component with pins 1, 2, 3, and 4.
 - C7:** A component with pins 1, 2, 3, and 4.
- Dimensions:**
 - Distance from X=50 to X=60: 10
 - Distance from X=60 to X=70: 10
 - Distance from X=70 to X=80: 10
 - Distance from X=80 to X=90: 10
 - Distance from X=90 to X=100: 10
 - Distance from X=100 to X=110: 10
 - Distance from X=110 to X=125: 15
 - Distance from Y=210 to Y=220: 10
 - Distance from Y=220 to Y=230: 10
 - Distance from Y=230 to Y=240: 10
 - Distance from Y=240 to Y=250: 10

11.8 DIGITAL INPUT ASSY

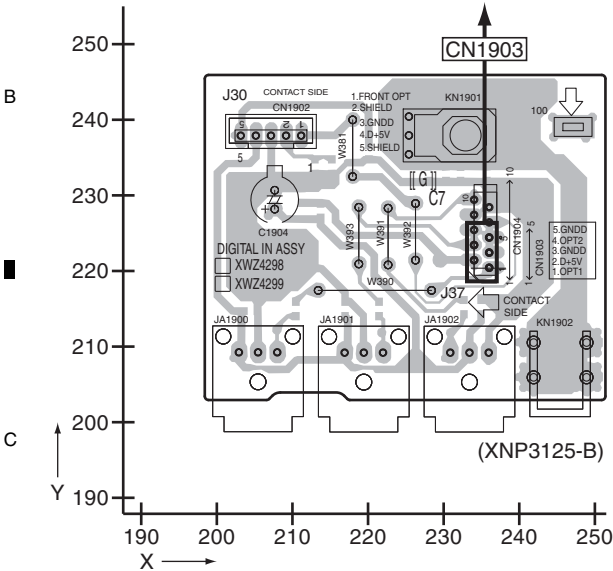
A

SIDE A

SIDE A

M DIGITAL INPUT ASSY

B CN5

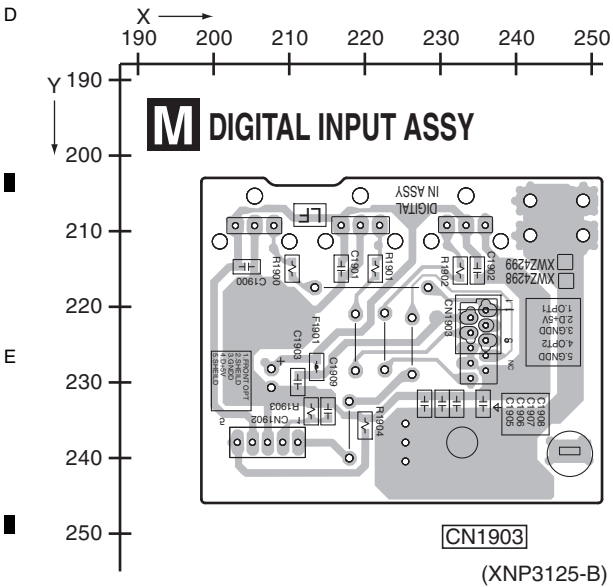


SIDE B

SIDE B

M DIGITAL INPUT ASSY

CN1903



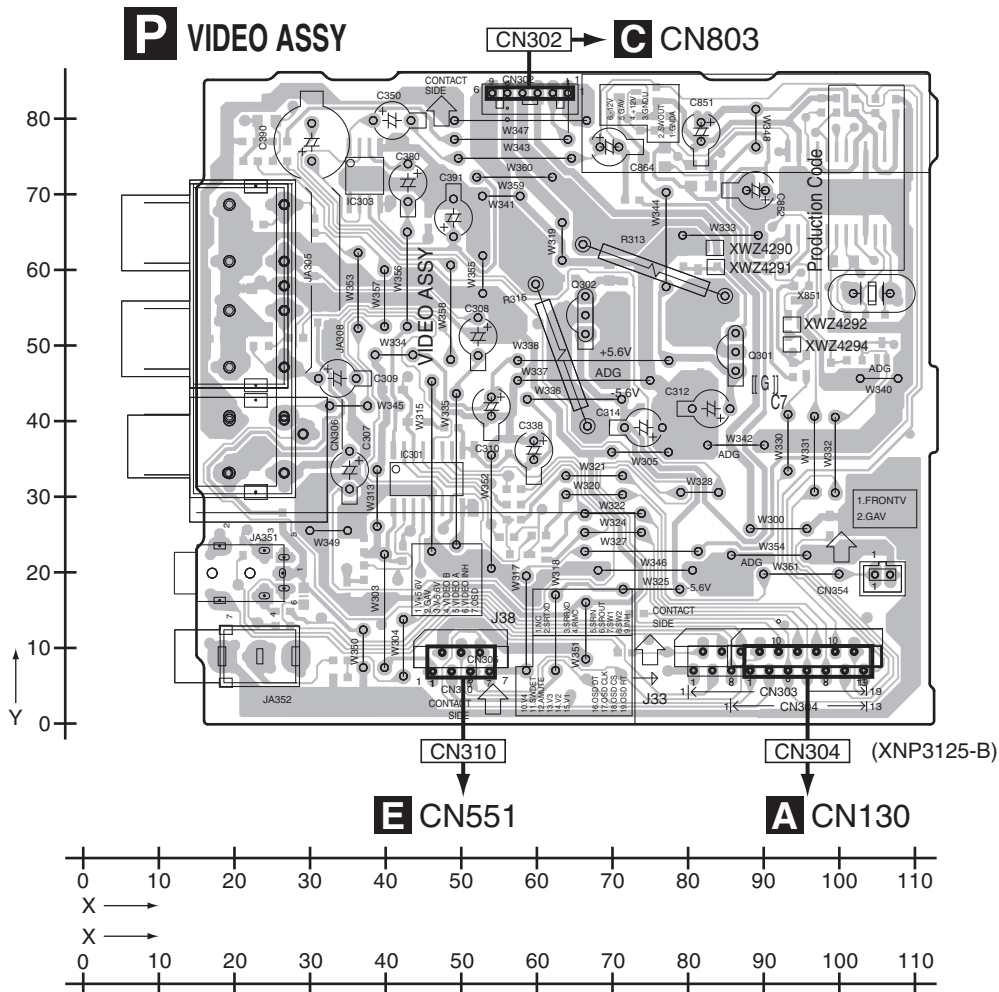
M

M

11.10 VIDEO ASSY

A SIDE A

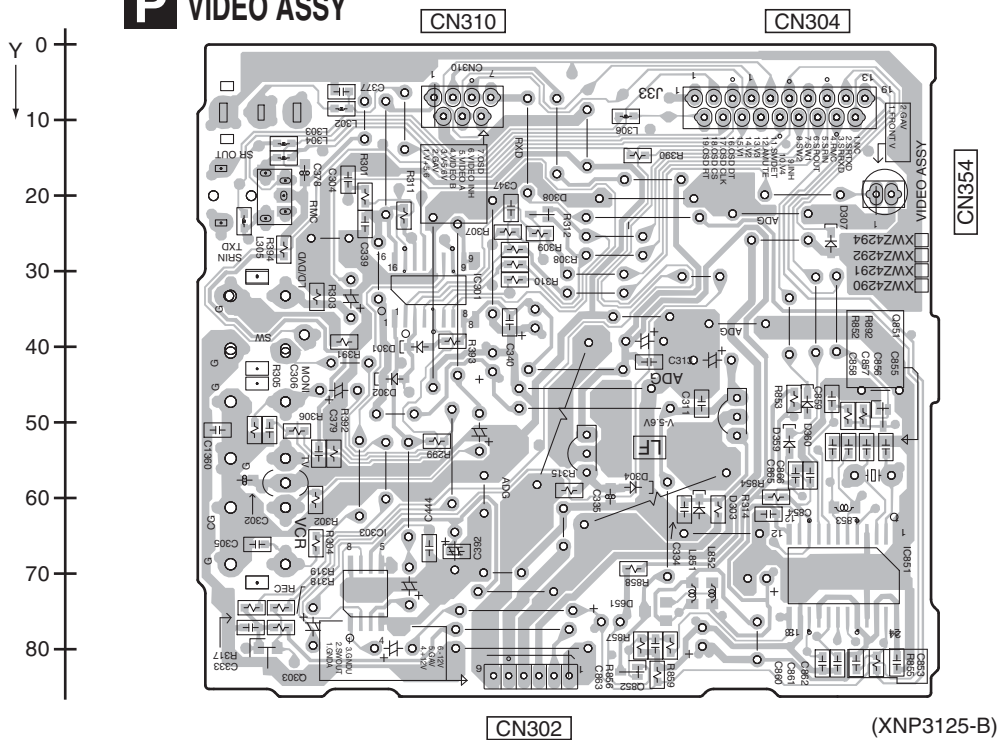
SIDE A



SIDE B

SIDE B

D VIDEO ASSY



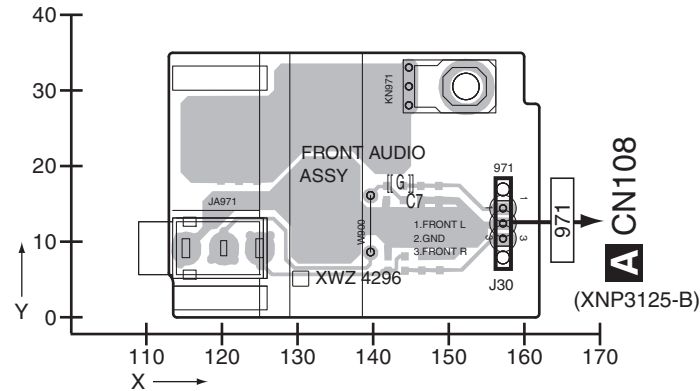
P

P

SIDE A

SIDE A

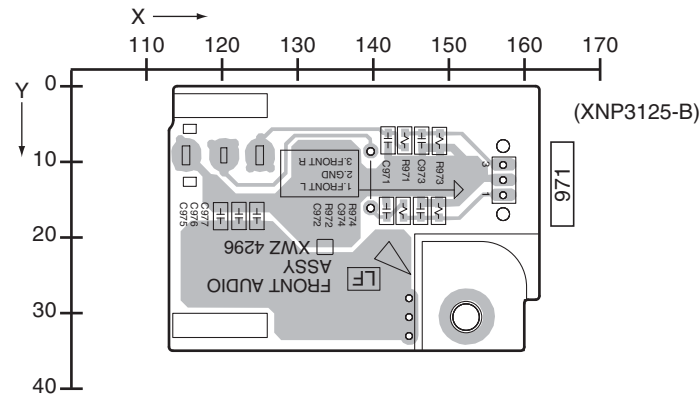
FRONT MINI JACK ASSY



SIDE B

SIDE B

FRONT MINI JACK ASSY



L

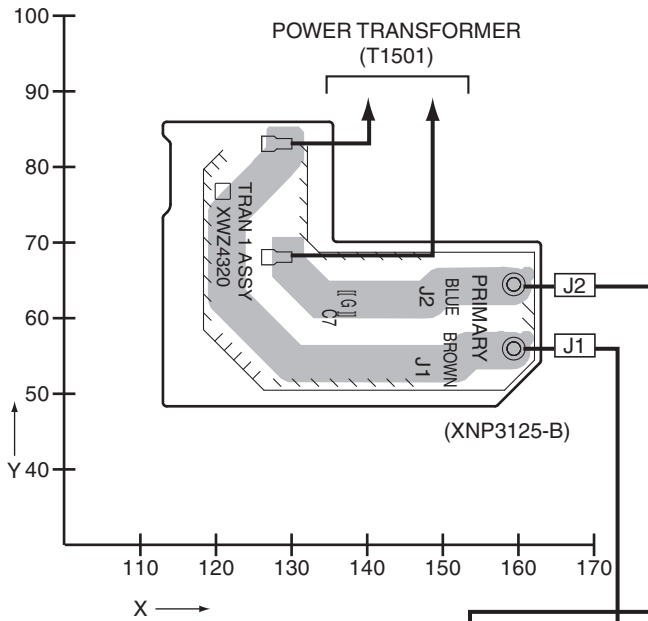
L

11.12 TRANS1 and PRIMARY ASSYS

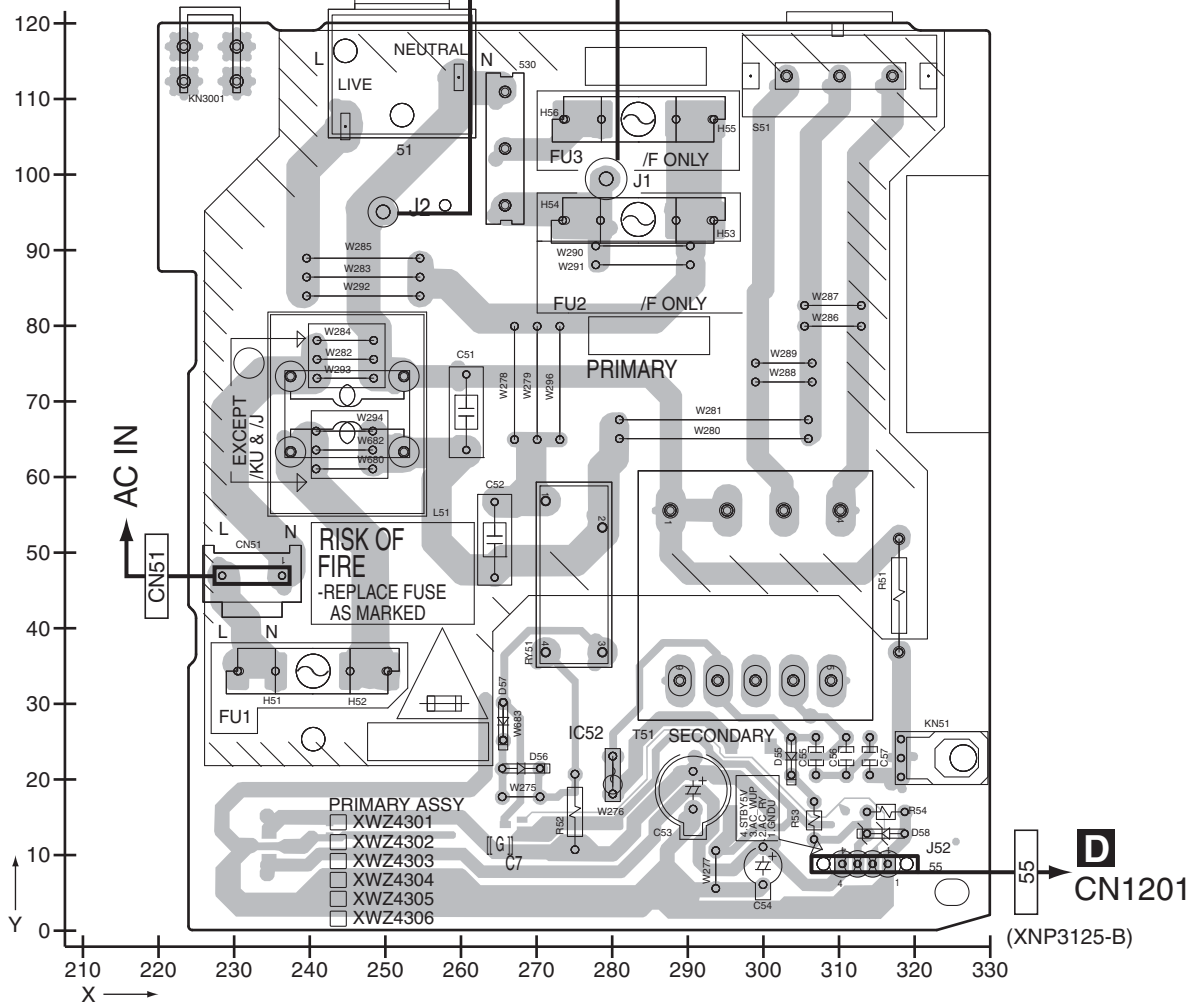
SIDE A

SIDE A

S TRANS1 ASSY



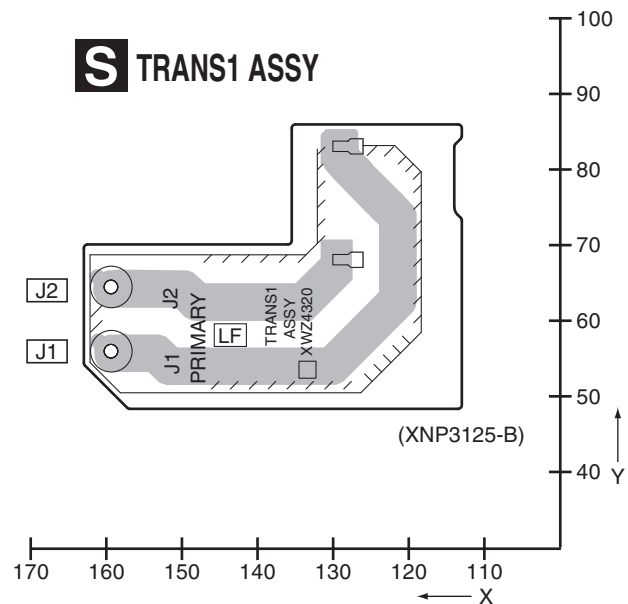
Q PRIMARY ASSY



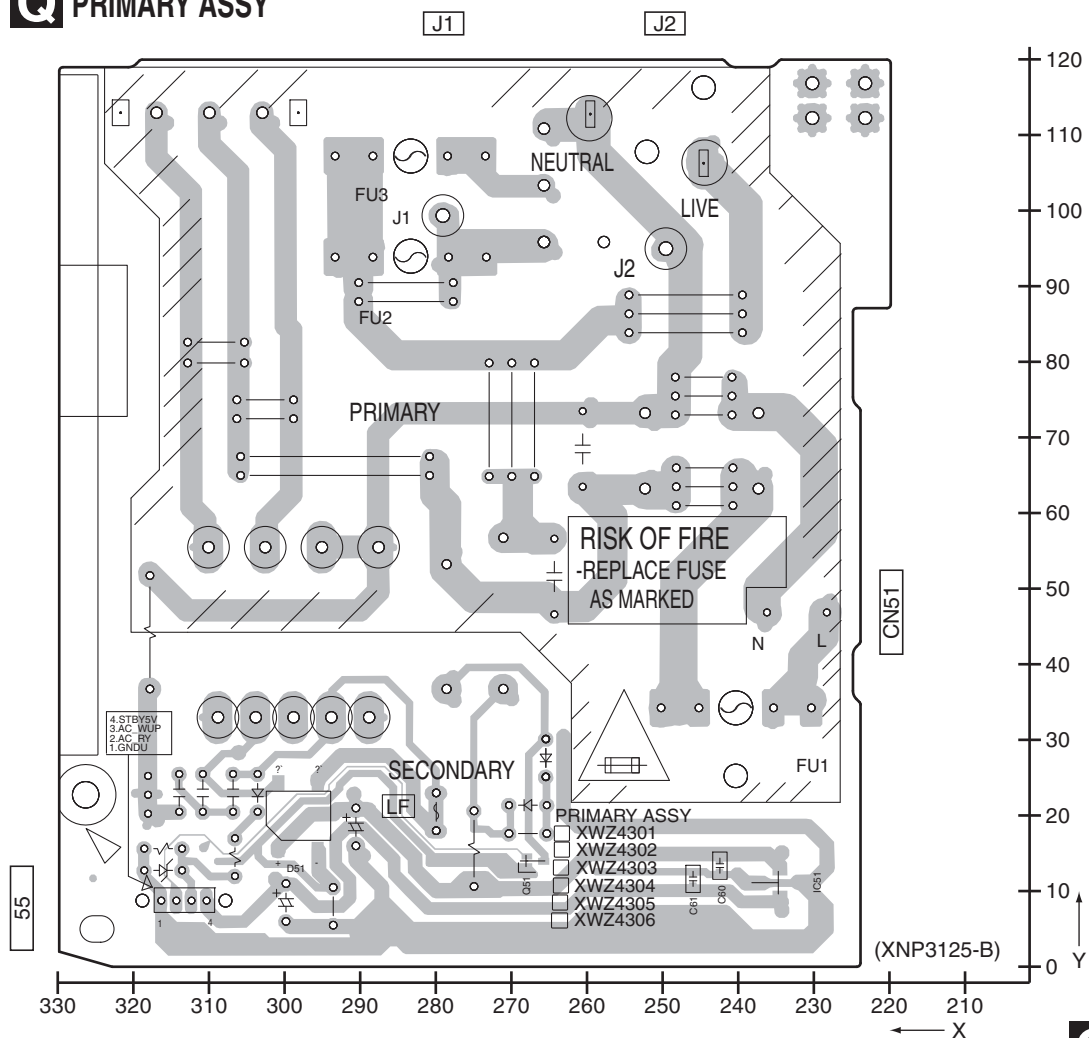
Q S

SIDE B

SIDE B



Q PRIMARY ASSY



VSX-518-K

Q **S**

12. ELECTRICAL PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ 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.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561 RD1/4PU $\overline{561}$ J

47k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473 RD1/4PU $\overline{473}$ J

0.5 Ω $\rightarrow$ R50 RN2H $\overline{R50}$ K

1 Ω $\rightarrow$ 1R0 RS1P $\overline{1R0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621 RN1/4PC $\overline{5621}$ F

● 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

Mark No. Description Part No.

LIST OF ASSEMBLIES

	1..MAIN ASSY	XWK3355
	1..DSP ASSY	AWX8980
NSP	1..AMP ASSY	XWK3345
	2..POWER PACK ASSY	XWZ4322
	2..TRANS2 ASSY	XWZ4334
	2..TRANS3 ASSY	XWZ4337
	2..COMPONENT VIDEO ASSY	XWZ4339
	2..5.1CH INPUT ASSY	XWZ4341
	2..BIND ASSY	XWZ4344

Mark No. Description Part No.

NSP	1..COMPLEX ASSY	XWK3331
	2..FRONT DISPLAY ASSY	XWZ4283
	2..ROTARY ENCODER ASSY	XWZ4286
	2..POWER KEY ASSY	XWZ4287
	2..JOG ASSY	XWZ4289
	2..VIDEO ASSY	XWZ4290
	2..FRONT MINI JACK ASSY	XWZ4296
	2..DIGITAL INPUT ASSY	XWZ4298
	2..PRIMARY ASSY	XWZ4301
	2..REGULATOR ASSY	XWZ4315
	2..TRANS1 ASSY	XWZ4320
	2..HEAD PHONE ASSY	XWZ4321
	1..FM/AM TUNER UNIT	AXX7210

PCB PARTS LIST

Mark No. Description Part No.

AMP ASSY

MISCELLANEOUS

Δ J	2	BOARD IN WIRE	XDX3071
J	41	JUMPER WIRE	D15A03-100-2651
J	42	JUMPER WIRE	D15A05-125-2651
J	44	JUMPER WIRE	D15A03-100-2651

Mark No. Description Part No.

Q	257	(A,76,112) TRANSISTOR	2SA1576A
Q	361	(A,181,72) TRANSISTOR	2SC5938A
Q	9001	(A,91,94) DIGITAL TR(SC-70)	RT1N431M
Q	9002	(A,66,80) DIGITAL TR(SC-70)	RT1P241M
Q	9003	(A,65,75) DIGITAL TR(SC-70)	RT1P241M
Q	9007	(A,69,85) TRANSISTOR	DTC143TK
Q	9064	(A,59,80) DIGITAL TR(SC-70)	RT1P241M
Q	9065	(A,55,78) TRANSISTOR	UMD2N
D	103	(B,177,35) DIODE	DAN217U(A)
D	105	(B,170,35) DIODE	DAN217U(A)
D	107	(B,174,37) DIODE	DAN217U(A)
D	251	(A,138,88) DIODE	DAN217U(A)
D	253	(B,55,108) DIODE	UDZS27(B)(A)
D	254	(A,72,113) DIODE	UDZS5R1(B)(A)
D	311	(B,258,96) DIODE	1SS355(A)
D	312	(B,269,98) DIODE	1SS355(A)
D	331	(B,254,91) DIODE	UDZS6R8(B)(A)
D	332	(B,271,91) DIODE	UDZS6R8(B)(A)
D	9006	(B,99,89) DIODE	DAN217U(A)
D	9007	(B,91,89) DIODE	DAN217U(A)
D	9010	(A,97,93) DIODE	1SS355(A)
D	9011	(A,60,75) DIODE	DAN202U(A)
D	9064	(A,58,75) DIODE	DAP202U(A)
D	9065	(A,63,80) DIODE	DAP202U(A)
D	9068	(A,50,81) DIODE	1SS355(A)

MAIN ASSY

MISCELLANEOUS

IC	103	(A,215,73) DUAL OP-AMP	NJM4565MD
IC	104	(A,198,56) DUAL OP-AMP	NJM4565MD
IC	105	(A,217,87) DUAL OP-AMP	NJM4565MD
IC	108	(B,253,65) 6CH E-VOL IC	BD3474KS2
IC	251	(A,134,89) DUAL OP-AMP	NJM4565MD
IC	9001	(B,82,64) SYSTEM CONTROL MICON	PEG468C
IC	9002	(A,104,42) EEPROM	BR24L16FV-W
Q	248	(A,53,103) TRANSISTOR	2SC4081
Q	249	(A,61,107) TRANSISTOR	RT1N241M
Q	250	(A,60,112) TRANSISTOR	2SC4081
Q	252	(A,65,105) TRANSISTOR	2SD1858X
Q	253	(A,53,99) TRANSISTOR	RT1N241M
Q	254	(B,61,103) DIGITAL TR(SC-70)	RT1P241M
Q	255	(A,61,99) TRANSISTOR	RT1N241M
Q	256	(A,61,95) CHIP TRANSISTOR	2SD2704K

5			6			7			8					
Mark No.	Description	Part No.	Mark No.	Description	Part No.									
L 101	(B,260,98) CHIP SOLID INDUCTOR	QTL1013	R 245	(B,205,70)	RS1/16S332J	A								
L 102	(B,267,97) CHIP SOLID INDUCTOR	QTL1013	R 246	(B,205,76)	RS1/16S332J									
L 5002	(A,257,104) CHIP SOLID INDUCTOR	QTL1013	R 247	(B,207,70)	RS1/16S332J									
L 9001	(A,124,102) CHIP SOLID INDUCTOR	ATL7002	R 248	(B,207,76)	RS1/16S332J									
L 9002	(A,120,103) CHIP SOLID INDUCTOR	ATL7002	R 249	(B,214,70)	RS1/16S332J									
L 9003	(A,86,97) RADIAL INDUCTOR	LFCA2R2J	R 250	(B,214,76)	RS1/16S332J	B								
X 9001	(A,96,53) CERAMIC RESONATOR (15.7 MHz)	XSS3004	R 251	(B,216,70)	RS1/16S182J									
CN 101	(A,41,27) CONNECTOR	9604S-17C	R 252	(B,216,76)	RS1/16S182J									
CN 102	(A,113,61) CONNECTOR	9604S-10C	R 261	(A,189,53)	RS1/16S473J									
CN 103	(A,227,17) 11P CONNECTOR	52044-1145	R 262	(A,189,59)	RS1/16S473J									
CN 105	(A,266,34) CONNECTOR	9604S-07C	R 264	(B,186,60)	RS1/16S392J	C								
CN 108	3P JUMPER CONNECTOR	52147-0310	R 265	(B,188,53)	RS1/16S332J									
CN 109	(A,213,113) 15P SOCKET	XKP3090	R 266	(B,188,60)	RS1/16S472J									
CN 110	(A,169,113) 17P SOCKET	XKP3059	R 267	(B,190,53)	RS1/16S332J									
CN 111	(A,274,113) 21P SOCKET	XKP3091	R 268	(B,190,60)	RS1/16S123J									
CN 112	(A,91,41) CONNECTOR	9604S-15C	R 269	(B,197,53)	RS1/16S332J	D								
CN 125	(A,302,42) 6P PIN JACK	XKB3055	R 270	(B,197,60)	RS1/16S122J									
CN 130	(A,247,13) 13P FFC CONNECTOR	9604S-13C	R 271	(B,199,53)	RS1/16S182J									
CN 142	(A,302,98) 8P PIN JACK	XKB3067	R 272	(B,199,60)	RS1/16S272J									
CN 251	(A,39,92) 3P JUMPER CONNECTOR	52147-0310	R 274	(B,202,60)	RS1/16S271J									
CN 252	(A,37,77) 3P TOP POST	B3B-EH	R 280	(B,53,104)	RS1/16S0R0J	E								
101	PCB BINDER	VEF1040	R 303	(B,163,37)	RS1/16S101J									
RESISTORS			R 304	(B,158,49)	RS1/16S101J									
R 103	(B,283,62)	RS1/16S222J	R 305	(B,163,49)	RS1/16S101J									
R 104	(B,283,52)	RS1/16S222J	R 306	(B,164,61)	RS1/16S101J									
R 105	(B,283,48)	RS1/16S331J	R 307	(B,165,68)	RS1/16S101J	F								
R 106	(B,293,40)	RS1/16S331J	R 308	(B,173,73)	RS1/16S101J									
R 107	(B,283,88)	RS1/16S331J	R 311	(A,258,102) METAL OXIDE RESISTOR	RS1LMF101J									
R 108	(B,293,81)	RS1/16S331J	R 312	(A,266,102) METAL OXIDE RESISTOR	RS1LMF101J									
R 109	(B,283,75)	RS1/16S331J	R 430	(A,137,91)	RS1/16S104J									
R 110	(B,293,68)	RS1/16S331J	R 431	(A,130,95)	RS1/16S104J	F								
R 111	(B,283,112)	RS1/16S222J	R 432	(A,130,100)	RS1/16S104J									
R 112	(B,283,106)	RS1/16S222J	R 433	(A,137,99)	RS1/16S683J									
R 113	(B,283,101)	RS1/16S331J	R 434	(A,136,94)	RS1/16S393J									
R 114	(B,293,96)	RS1/16S331J	R 435	(A,134,97)	RS1/16S683J									
R 129	(B,283,34)	RS1/16S331J	R 436	(A,137,102)	RS1/16S683J	G								
R 130	(B,283,25)	RS1/16S331J	R 437	(A,53,106)	RS1/16S103J									
R 145	(A,70,73)	RS1/16S102J	R 438	(A,54,110)	RS1/16S103J									
R 146	(A,71,74)	RS1/16S102J	R 439	(A,56,110)	RS1/16S103J									
R 147	(B,231,59)	RS1/16S102J	R 440	(A,63,113)	RS1/16S103J									
R 148	(B,233,51)	RS1/16S102J	R 441	(A,146,94)	RS1/16S222J	H								
R 149	(B,263,57)	RS1/16S104J	R 442	(A,149,95)	RS1/16S104J									
R 180	(B,278,97)	RS1/16S0R0J	R 443	(B,57,108)	RS1/16S471J									
R 181	(B,273,78)	RS1/16S0R0J	R 444	(A,139,91)	RS1/16S104J									
R 182	(B,275,75)	RS1/16S0R0J	R 445	(A,55,101)	RS1/16S223J									
R 183	(B,276,67)	RS1/16S0R0J	R 447	(A,65,96)	RS1/16S472J	I								
R 201	(A,208,85)	RS1/16S473J	R 448	(A,70,113)	RS1/16S104J									
R 202	(A,207,90)	RS1/16S473J	R 449	(A,65,113)	RS1/16S822J									
R 205	(B,208,85)	RS1/16S392J	R 452	(A,153,44)	RS1/16S0R0J									
R 206	(B,208,91)	RS1/16S392J	R 459	(B,139,38)	RS1/16S103J									
R 207	(B,210,85)	RS1/16S392J	R 460	(B,139,43)	RS1/16S103J	J								
R 208	(B,210,91)	RS1/16S392J	R 464	(A,65,100)	RS1/16S0R0J									
R 209	(B,216,85)	RS1/16S392J	R 467	(A,146,36)	RS1/16S0R0J									
R 210	(B,216,91)	RS1/16S392J	R 471	(A,152,51)	RS1/16S0R0J									
R 211	(B,219,85)	RS1/16S332J	R 472	(A,156,63)	RS1/16S0R0J									
R 212	(B,219,91)	RS1/16S332J	R 479	(B,142,57)	RS1/16S103J	K								
R 241	(A,206,70)	RS1/16S473J	R 480	(B,142,62)	RS1/16S103J									
R 242	(A,206,75)	RS1/16S473J	R 484	(A,173,70)	RS1/16S104J									
			R 485	(A,170,77)	RS1/16S472J									

	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
	R 499	(B,146,69)	RS1/16S103J
A	R 500	(B,140,79)	RS1/16S103J
	R 549	(B,159,69)	RS1/16S0R0J
	R 550	(A,153,84)	RS1/16S0R0J
	R 551	(A,67,113)	RS1/16S822J
	R 9001	(B,94,54)	RS1/16S0R0J
■	R 9002	(A,98,94)	RS1/16S473J
	R 9003	(B,92,54)	RS1/16S0R0J
	R 9006	(B,103,89)	RS1/16S474J
	R 9007	(B,93,89)	RS1/16S474J
	R 9008	(A,80,109)	RS1/16S221J
B	R 9009	(A,65,85)	RS1/16S473J
	R 9010	(B,107,48)	RS1/16S512J
	R 9011	(A,63,76)	RS1/16S102J
	R 9012	(A,63,73)	RS1/16S0R0J
	R 9013	(B,112,45)	RS1/16S471J
■	R 9014	(B,104,54)	RS1/16S471J
	R 9015	(B,102,54)	RS1/16S471J
	R 9016	(B,100,54)	RS1/16S471J
	R 9017	(B,98,54)	RS1/16S471J
	R 9018	(B,96,54)	RS1/16S471J
C	R 9019	(B,98,76)	RS1/16S471J
	R 9020	(B,99,76)	RS1/16S471J
	R 9021	(B,101,76)	RS1/16S471J
	R 9022	(B,103,76)	RS1/16S471J
	R 9023	(B,112,67)	RS1/16S103J
■	R 9025	(B,103,67)	RS1/16S100J
	R 9026	(B,106,67)	RS1/16S103J
	R 9028	(B,118,45)	RS1/16S104J
	R 9030	(A,68,79)	RS1/16S470J
	R 9031	(A,65,54)	RS1/16S104J
D	R 9032	(A,62,53)	RS1/16S104J
	R 9033	(B,89,48)	RS1/16S104J
	R 9036	(A,90,89)	RS1/16S221J
	R 9037	(B,75,98)	RS1/16S104J
	R 9039	(A,87,57)	RS1/16S104J
■	R 9041	(B,116,45)	RS1/16S104J
	R 9045	(A,97,46)	RS1/16S471J
	R 9046	(A,107,46)	RS1/16S471J
	R 9047	(A,98,46)	RS1/16S103J
	R 9048	(A,98,43)	RS1/16S103J
E	R 9053	(A,102,29)	RS1/16S221J
	R 9060	(B,98,68)	RS1/16S473J
	R 9062	(B,87,48)	RS1/16S471J
	R 9064	(A,54,74)	RS1/16S103J
	R 9065	(A,56,74)	RS1/16S103J
■	R 9066	(A,62,72)	RS1/16S103J
	R 9067	(A,59,83)	RS1/16S103J
	R 9068	(A,64,71)	RS1/16S0R0J
	R 9071	(B,70,50)	RS1/16S221J
	R 9072	(B,64,50)	RS1/16S221J
F	R 9073	(A,74,56)	RS1/16S221J
	R 9074	(A,79,52)	RS1/16S221J
	R 9081	(A,119,73)	RS1/16S221J
	R 9082	(A,121,71)	RS1/16S274J
	R 9091	(A,132,39)	RS1/16S0R0J
	R 9092	(A,129,38)	RS1/16S0R0J
	R 9093	(A,133,51)	RS1/16S0R0J

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
<u>CAPACITORS</u>		
C 115	(B,262,98)	CKSRYB103K50
C 116	(B,264,97)	CKSRYB103K50
C 117	(B,283,116)	CCSRCH220J50
C 118	(B,285,109)	CCSRCH220J50
C 121	(A,280,34)	CEAT100M50
C 122	(A,280,25)	CEAT100M50
C 123	(A,280,19)	CEAT100M50
C 124	(A,280,11)	CEAT100M50
C 125	(A,280,62)	CEAT100M50
C 126	(A,280,53)	CEAT100M50
C 127	(A,280,47)	CEAT100M50
C 128	(A,280,40)	CEAT100M50
C 131	(A,280,87)	CEAT100M50
C 132	(A,280,80)	CEAT100M50
C 133	(A,280,74)	CEAT100M50
C 134	(A,280,67)	CEAT100M50
C 135	(A,280,114)	CEAT100M50
C 136	(A,280,106)	CEAT100M50
C 137	(A,280,101)	CEAT100M50
C 138	(A,280,93)	CEAT100M50
C 139	(A,50,101)	CEAT100M50
C 140	(A,50,94)	CEAT100M50
C 141	(B,236,50)	CKSRYB104K50
C 145	(B,238,54)	CCSRCH101J50
C 146	(B,238,50)	CCSRCH101J50
C 147	(A,249,68)	CKSRYB103K50
C 148	(B,229,61)	CKSRYB223K25
C 149	(B,240,59)	CKSRYB473K25
C 150	(B,237,59)	CKSQYB154K16
C 151	(B,234,62)	CKSRYB103K50
C 152	(B,235,54)	CKSRYB223K25
C 153	(B,233,56)	CKSRYB473K25
C 154	(B,230,53)	CKSQYB154K16
C 155	(A,225,43)	CEAT470M25
C 165	(A,236,86)	CEAT1R0M50
C 166	(A,243,86)	CEAT1R0M50
C 179	(B,294,76)	CKSRYB103K50
C 180	(A,277,19)	CKSRYB103K50
C 199	(A,281,50)	CKSRYB103K50
C 201	(A,202,85)	CEAT2R2M50
C 202	(A,203,92)	CEAT2R2M50
C 205	(A,212,85)	CCSRCH331J50
C 206	(A,212,90)	CCSRCH331J50
C 207	(B,212,85)	CCSRCH331J50
C 208	(B,212,91)	CCSRCH331J50
C 217	(A,221,85)	CKSRYB103K50
C 218	(A,221,90)	CKSRYB103K50
C 241	(A,200,71)	CEAT2R2M50
C 242	(A,200,78)	CEAT2R2M50
C 245	(A,211,70)	CCSRCH331J50
C 246	(A,211,75)	CCSRCH331J50
C 247	(B,209,70)	CCSRCH331J50
C 248	(B,209,76)	CCSRCH331J50
C 251	(A,219,68)	CKSRYB103K50
C 252	(A,219,75)	CKSRYB103K50
C 253	(A,130,91)	CKSRYB103K50
C 254	(A,157,96)	CEAT101M25
C 256	(A,135,84)	CKSRYB103K50
C 261	(A,183,54)	CEAT2R2M50

Mark No. Description**Part No.**

C 262 (A,183,62)	CEAT2R2M50
C 264 (A,191,59)	CCSRCH331J50
C 265 (A,194,53)	CCSRCH331J50
C 266 (A,194,59)	CCSRCH221J50
C 267 (B,193,53)	CCSRCH331J50
C 268 (B,193,60)	CCSRCH101J50
C 271 (A,202,53)	CKSRYB103K50
C 272 (A,202,58)	CKSRYB103K50
C 325 (A,143,39) ELECT. CAPACITOR	CEAT220M50
C 326 (A,143,46) ELECT. CAPACITOR	CEAT220M50
C 333 (A,251,93)	CEAT101M10
C 334 (A,268,81)	CEAT101M10
C 345 (A,145,57) ELECT. CAPACITOR	CEAT220M50
C 346 (A,145,64) ELECT. CAPACITOR	CEAT220M50
C 362 (A,185,79)	CEAT100M50
C 365 (A,142,73) ELECT. CAPACITOR	CEAT220M50
C 366 (A,142,80) ELECT. CAPACITOR	CEANP4R7M50
C 392 (B,91,97)	CKSRYB102K50
C 1031 (A,286,65)	CCSRCH220J50
C 1041 (B,287,55)	CCSRCH220J50
C 5001 (B,230,10)	CKSRYB102K50
C 5002 (B,232,10)	CKSRYB103K50
C 5003 (B,234,10)	CKSRYB105K10
C 5025 (A,159,11)	CKSRYB102K50
C 5026 (A,162,12)	CKSRYB102K50
C 5027 (A,167,14)	CKSRYB102K50
C 5028 (A,180,15)	CCSRCH220J50
C 9004 (B,84,88)	CKSRYB103K50
C 9005 (A,78,106)	CEJQ2R2M50
C 9006 (A,95,93)	CKSRYB105K10
C 9007 (A,79,92) ELECT. CAPACITOR	CEAT331M6R3
C 9008 (B,77,90)	CKSRYB103K50
C 9011 (B,95,89)	CKSRYB473K16
C 9014 (B,87,88)	CKSRYB473K16
C 9015 (A,94,102)	CKSRYB102K50
C 9018 (B,72,72)	CKSRYB104K50
C 9030 (A,272,106)	CEAT101M25
C 9081 (A,121,69)	CKSRYB103K50

B DSP ASSY

MISCELLANEOUS

IC 601 (A,109,36) DA I/F TRANSCEIVER	AK4114VQ
IC 701 (A,77,29) CODEC IC	AK4626AVQ
IC 801 (A,37,39) DSP IC	DSPC56371AF180
IC 802 (A,33,26) IC	TC7WU04FU
IC 871 (B,65,43) IC	TC7WH125FU
⚠ IC 901 (B,114,24) REGURATOR IC	PQ1LAX95MSPQ
⚠ IC 902 (A,99,24) REGURATOR IC	PQ1LAX95MSPQ
IC 952 (A,16,32) IC	TC74VHCT541AFTS1
D 701 (A,81,19) DIODE	MA152WA(A)
D 702 (B,82,18) DIODE	MA152WK(A)
D 901 (B,107,21) DIODE	UDZS5R6(B)(A)
D 902 (B,102,20) DIODE	UDZS5R6(B)(A)
L 601 (B,103,41) CHIP SOLID INDUCTOR	QTL1013
L 602 (A,100,36) CHIP SOLID INDUCTOR	QTL1013
L 701 (B,68,30) CHIP SOLID INDUCTOR	QTL1013
L 702 (A,93,22) CHIP SOLID INDUCTOR	QTL1013
L 801 (A,37,25) CHIP SOLID INDUCTOR	QTL1013

Mark No. Description Part No.

L 802 (A,42,29) CHIP SOLID INDUCTOR	ATL7002
L 803 (A,51,42) CHIP SOLID INDUCTOR	ATL7002
L 804 (B,29,34) CHIP SOLID INDUCTOR	QTL1013
L 871 (B,69,45) CHIP SOLID INDUCTOR	QTL1013
L 901 (B,105,18) CHIP SOLID INDUCTOR	ATL7002
L 902 (B,100,18) CHIP SOLID INDUCTOR	ATL7002
L 952 (A,21,28) CHIP SOLID INDUCTOR	QTL1013
JA 501 (A,142,22) JACK	AKB7131
X 801 (A,23,22) CRYSTAL RESONATOR (24.576 MHz)	XSS3003
CN 603 (A,107,50) 5P CONNECTOR	VKN1236
CN 701 (A,83,14) 19P SOCKET	XKP3080
CN 901 (A,116,14) 13P SOCKET	XKP3077
CN 951 (A,45,14) 15P SOCKET	XKP3078

RESISTORS

R 403 (A,122,42)	RS1/16SS0R0J
R 501 (B,131,16)	RS1/16S750J
R 502 (B,134,30)	RS1/16S750J
R 516 (B,114,36)	RS1/16S100J
R 517 (B,130,30)	RS1/16S100J
R 572 (A,92,40)	RS1/16S0R0J
R 573 (A,91,44)	RS1/16SS0R0J
R 574 (A,76,42)	RS1/16SS0R0J
R 575 (A,76,40)	RS1/16SS0R0J
R 576 (A,78,44)	RS1/16SS0R0J
R 604 (B,114,46)	RS1/16S104J
R 605 (B,112,46)	RS1/16S104J
R 606 (B,110,46)	RS1/16S104J
R 612 (A,117,33)	RS1/16S0R0J
R 614 (A,102,38)	RS1/16SS101J
R 615 (A,104,30)	RS1/16SS470J
R 616 (A,102,34)	RS1/16SS101J
R 617 (B,105,31)	RS1/16S101J
R 618 (B,107,31)	RS1/16S101J
R 620 (A,106,30)	RS1/16SS470J
R 621 (B,108,36)	RS1/16S220J
R 624 (A,112,28) RESISTOR ARRAY	RAB4CQ101J
R 627 (B,112,32)	RS1/16S103J
R 628 (A,117,38)	RS1/16S1802F
R 665 (A,99,58)	RS1/16SS0R0J
R 666 (A,98,58)	RS1/16SS0R0J
R 667 (A,97,58)	RS1/16SS0R0J
R 701 (B,78,35)	RS1/16S470J
R 702 (B,75,35)	RS1/16S101J
R 704 (B,70,27)	RS1/16S4R7J
R 705 (A,60,18)	RS1/16SS101J
R 706 (A,63,18)	RS1/16SS101J
R 707 (A,65,18)	RS1/16SS101J
R 708 (A,68,18)	RS1/16SS101J
R 709 (A,70,18)	RS1/16SS101J
R 710 (A,73,18)	RS1/16SS101J
R 711 (A,75,18)	RS1/16SS101J
R 712 (A,78,18)	RS1/16SS101J
R 713 (A,86,30)	RS1/16S470J
R 714 (A,85,36) RESISTOR ARRAY	RAB4CQ101J
R 801 (A,48,48)	RS1/16SS470J
R 802 (A,40,50) RESISTOR ARRAY	RAB4CQ101J
R 803 (B,44,48)	RS1/16S103J
R 804 (B,42,48)	RS1/16S103J
R 805 (B,39,42)	RS1/16S103J

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

R 806 (B,37,42) RS1/16S103J
 R 807 (B,35,42) RS1/16S473J
 R 810 (A,26,39) RS1/16SS473J
 R 811 (A,24,37) RS1/16SS472J
 R 812 (B,27,43) RS1/16S101J

C 706 (B,66,26) CKSRYB104K16
 C 707 (B,60,19) CKSRYB471K50
 C 708 (B,63,19) CKSRYB471K50
 C 709 (B,65,19) CKSRYB471K50

C 710 (B,68,19) CKSRYB471K50
 C 711 (B,70,19) CKSRYB471K50
 C 712 (B,73,19) CKSRYB471K50
 C 713 (B,75,19) CKSRYB471K50
 C 714 (B,78,19) CKSRYB471K50

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R 813 (A,24,34) RS1/16SS103J
 R 815 (A,25,26) RS1/16SS105J
 R 816 (A,23,26) RS1/16SS471J
 R 817 (A,34,28) RS1/16SS101J
 R 818 (B,35,23) RS1/16S220J

C 715 (A,90,29) CEVW101M16
 C 716 (A,86,27) CKSRYB104K16
 C 717 (A,85,27) CKSSYB471K50
 C 718 (A,87,20) CEVW470M6R3
 C 720 (A,85,24) CKSSYB104K10

B

R 819 (B,26,29) RS1/16S101J
 R 820 (B,28,29) RS1/16S0R0J
 R 822 (B,36,30) RS1/16S103J
 R 823 (B,36,36) RS1/16S473J
 R 827 (B,48,38) RS1/16S470J

C 763 (B,53,36) CKSRYB471K50
 C 764 (B,55,36) CKSRYB104K16
 C 802 (A,42,50) CKSSYB104K10
 C 803 (A,37,49) CKSSYB471K50
 C 804 (A,37,50) CKSSYB104K10

■

R 831 (B,42,31) RS1/16S470J
 R 832 (A,47,41) RS1/16SS470J
 R 833 (A,48,45) RESISTOR ARRAY RAB4CQ470J
 R 840 (A,24,33) RS1/16SS101J
 R 841 (A,67,38) RS1/16S473J

C 806 (A,31,50) CKSSYB104K10
 C 808 (A,26,43) CKSSYB104K10
 C 809 (A,27,41) CKSSYB471K50
 C 810 (A,26,41) CKSSYB104K10
 C 814 (A,27,33) CKSSYB471K50

C

R 852 (B,43,27) RS1/16S222J
 R 871 (B,59,36) RS1/16S470J
 R 872 (B,61,36) RS1/16S470J
 R 873 (B,61,44) RS1/16S470J
 R 874 (B,59,44) RS1/16S470J

C 815 (A,25,33) CKSSYB104K10
 C 816 (A,21,26) CCSSCH5R0C50
 C 817 (A,27,26) CCSSCH5R0C50
 C 818 (A,35,23) CCSRCH471J50
 C 819 (A,35,22) CKSSYB104K10

■

R 905 (B,118,17) RS1/16S104J
 R 906 (B,120,15) RS1/16S104J
 R 908 (A,123,13) RS1/16SS0R0J
 R 919 (A,113,20) RS1/16S1202F
 R 920 (A,115,20) RS1/16S2002F

C 821 (A,30,30) CKSSYB471K50
 C 822 (A,30,29) CKSSYB104K10
 C 823 (A,32,30) CKSSYB471K50
 C 824 (A,32,28) CKSSYB104K10
 C 825 (B,32,39) CKSRYB103K50

D

R 921 (A,101,20) RS1/16S1202F
 R 922 (A,98,20) CHIP RESISTOR RS1/16S1000F
 R 951 (B,25,33) RS1/16S101J
 R 952 (B,23,33) RS1/16S101J
 R 953 (B,21,33) RS1/16S101J

C 826 (A,38,29) CKSSYB471K50
 C 827 (A,38,28) CKSSYB104K10
 C 829 (A,47,36) CKSSYB104K10
 C 830 (A,47,39) CKSSYB471K50
 C 831 (A,48,39) CKSSYB104K10

■

R 954 (A,17,26) RESISTOR ARRAY RAB4CQ101J
 R 955 (A,14,26) RESISTOR ARRAY RAB4CQ101J
 R 962 (A,32,18) RESISTOR ARRAY RAB4CQ104J
 R 970 (A,37,18) RESISTOR ARRAY RAB4CQ104J
 R 981 (A,14,38) RS1/16SS0R0J

C 833 (A,48,43) CKSSYB104K10
 C 834 (A,41,23) CEVW101M16
 C 835 (A,57,42) CHIP ELECT.CAPACITOR CEVW101M4
 C 872 (B,70,41) CKSRYB104K16
 C 907 (B,110,23) CKSRYB105K16

R 982 (A,15,38) RS1/16SS0R0J

CAPACITORS

C 503 (B,127,16) CKSRYB103K50
 C 504 (B,132,30) CKSRYB103K50
 C 606 (A,102,40) CKSRYB104K16
 C 607 (A,96,39) CEVW470M6R3
 C 608 (A,101,36) CCSRCH471J50

C 908 (A,115,22) CKSRYB105K16
 C 909 (B,97,26) CKSRYB105K16
 C 910 (B,97,22) CKSRYB105K16
 C 916 (B,69,34) CKSRYB471K50
 C 917 (B,71,34) CKSRYB103K50

E

C 609 (A,102,36) CKSRYB104K16
 C 614 (B,110,32) CKSRYB104K16
 C 617 (B,114,32) CKSRYB102K50
 C 618 (A,117,28) CEVW470M6R3
 C 619 (A,118,35) CKSSYB104K10

C 918 (B,81,36) CKSRYB104K16
 C 919 (B,82,36) CKSRYB471K50
 C 955 (A,22,31) CKSRYB104K16

■

C 620 (A,116,35) CCSRCH471J50
 C 621 (A,116,38) CKSRYB474K10
 C 701 (A,67,32) CKSSYB103K16
 C 703 (A,64,23) CEVW101M16
 C 704 (A,67,29) CKSRYB104K16

C POWER PACK ASSY

MISCELLANEOUS

△ IC 601 (A,265,14) 2CH POWER IC PAC014A
 △ IC 603 (A,137,14) 3CH POWER IC PAC015A
 △ IC 610 (A,59,28) PROTECTOR(1A) AEK7009
 △ IC 701 (A,100,80) IC PROTECTOR ICP-N10

F

C 705 (A,68,30) CCSSCH101J50

5			7			8		
Mark No.	Description	Part No.	Mark No.	Description	Part No.			
△ IC 702	(A,84,81) IC PROTECTOR	ICP-N10	L 752	(A,173,108) COIL	ATH1004			
			L 753	(A,120,107) COIL	ATH1004			
△ IC 803	(B,238,93) IC	BA05FP						
△ IC 804	(A,279,111) REGULATOR IC	KIA7809API	L 761	(A,130,108) COIL	ATH1004			
△ IC 805	(B,270,132) LDO REGULATOR(5V)	NJM2831F05	L 762	(A,142,108) COIL	ATH1004			
Q 501	(B,91,38) TRANSISTOR	2SC5938A	J 43	11P PARALLEL WIRE	XDX3066			
Q 505	(A,116,47) TRANSISTOR	2SC2240	KN 601	(A,65,23) WRAPPING TERMINAL	VNF1084			
			RY 501	(A,75,132) RELAY	ASR7001			
Q 601	(B,94,44) TRANSISTOR	2SC5938A						
Q 602	(B,224,43) TRANSISTOR	2SC5938A	RY 751	(A,173,130) RELAY	ASR7001			
Q 605	(A,123,40) TRANSISTOR	2SC2240	RY 752	(A,141,126) RELAY	ASR7001			
Q 606	(A,252,40) TRANSISTOR	2SC2240	RY 753	(A,117,120) RELAY	ASR7001			
Q 652	(B,219,37) TRANSISTOR	2SC5938A	CN 701	(A,212,134) 11PJUMPER CONNECTOR	52147-1110			
			CN 702	(A,200,106) 6P JUMPER CONNECTOR	52147-0610			
Q 656	(A,244,47) TRANSISTOR	2SC2240						
Q 681	(B,82,48) TRANSISTOR	2SC5938A	CN 704	(A,290,45) 17P PLUG	XKM3007			
Q 683	(A,59,65) TRANSISTOR	2SC2240	CN 751	SP TERMINAL 4-P(V0)	XKE3041			
Q 696	(B,282,24) TRANSISTOR	2SC4081	CN 752	SP TERMINAL 6-P(V0)	XKE3049			
Q 697	(B,282,29) TRANSISTOR	2SC4081	CN 803	(A,224,129) 6P PLUG	KM200TA6			
			CN 805	(A,317,153) 13P PLUG	XKP3066			
Q 698	(B,246,67) TRANSISTOR	RT1N241M						
△ Q 701	(A,110,72) TRANSISTOR	2SC5511	CN 807	(A,317,82) 15P PLUG	XKP3067			
△ Q 702	(A,96,86) TRANSISTOR	2SA2005	CN 813	(A,310,38) CONNECTOR	9604S-15C			
Q 703	(A,155,76) TRANSISTOR	2SA1145	CN 815	(A,290,89) 15P PLUG	XKM3010			
Q 704	(A,166,79) TRANSISTOR	2SC2240	CN 816	(A,290,126) 21P PLUG	XKM3011			
			CN 827	19P PLUG	XKP3069			
Q 721	(A,142,72) TRANSISTOR	2SA1145						
Q 722	(A,161,74) TRANSISTOR	2SC2240	810	(A,277,90) 11P CABLE HOLDER	51048-1100			
Q 724	(B,291,72) TRANSISTOR	RT1N241M						
Q 803	(B,265,141) DIGITAL TR(SC-70)	RT1P241M						
Q 804	(B,268,141) TRANSISTOR	RT1N241M						
Q 805	(B,274,143) DIGITAL TR(SC-70)	RT1P241M						
Q 806	(B,267,146) TRANSISTOR	RT1N241M						
Q 807	(B,276,53) TRANSISTOR	RT3P22M						
Q 808	(B,283,57) TRANSISTOR	RT3N22M						
D 601	(A,127,57) DIODE	1SS133(A)						
D 603	(A,121,57) DIODE	1SS133(A)						
D 606	(A,260,57) DIODE	1SS133(A)						
D 608	(A,253,52) DIODE	1SS133(A)						
D 652	(A,262,57) DIODE	1SS133(A)						
D 654	(A,242,52) DIODE	1SS133(A)						
D 683	(A,132,57) DIODE	1SS133(A)						
D 684	(A,65,72) DIODE	1SS133(A)						
D 701	(A,9,88) DIODE	D5SBA20(B)(A)						
D 711	(A,195,103) ZENER DIODE	MTZJ22D(A)						
D 712	(A,191,103) DIODE	MTZJ6R8(B)(A)						
D 713	(A,114,77) DIODE	1SS133(A)						
D 741	(B,152,136) DIODE	1SS355(A)						
D 742	(B,167,140) DIODE	1SS355(A)						
D 743	(B,121,129) DIODE	1SS355(A)						
D 744	(B,138,139) DIODE	1SS355(A)						
D 745	(B,115,129) DIODE	1SS355(A)						
D 752	(B,170,135) DIODE	1SS355(A)						
D 754	(B,141,132) DIODE	1SS355(A)						
D 758	(B,73,136) DIODE	1SS355(A)						
D 777	(A,130,57) DIODE	1SS133(A)						
D 778	(A,110,57) DIODE	1SS133(A)						
D 801	(B,222,113) BRIDGE DIODE	S1WB(A)60SD(A)						
D 806	(A,283,65) DIODE	MTZJ6R2(B)(A)						
D 807	(A,280,70) DIODE	1SS133(A)						
D 827	(A,262,132) DIODE	MTZJ6R2(B)(A)						
D 828	(A,227,99) DIODE	MTZJ6R2(B)(A)						
D 829	(A,239,128) DIODE	D3SBA20(B)(A)						
L 751	(A,160,108) COIL	ATH1004						

Mark No.	Description	Part No.	Mark No.	Description	Part No.			
L 752	(A,173,108) COIL	ATH1004	L 753	(A,120,107) COIL	ATH1004			
L 761	(A,130,108) COIL	ATH1004	L 762	(A,142,108) COIL	ATH1004			
J 43	11P PARALLEL WIRE	XDX3066	KN 601	(A,65,23) WRAPPING TERMINAL	VNF1084			
RY 501	(A,75,132) RELAY	ASR7001	RY 751	(A,173,130) RELAY	ASR7001			
RY 752	(A,141,126) RELAY	ASR7001	RY 753	(A,117,120) RELAY	ASR7001			
CN 701	(A,212,134) 11PJUMPER CONNECTOR	52147-1110	CN 702	(A,200,106) 6P JUMPER CONNECTOR	52147-0610			
CN 704	(A,290,45) 17P PLUG	XKM3007	CN 751	SP TERMINAL 4-P(V0)	XKE3041			
CN 752	SP TERMINAL 6-P(V0)	XKE3049	CN 803	(A,224,129) 6P PLUG	KM200TA6			
CN 805	(A,317,153) 13P PLUG	XKP3066	CN 807	(A,317,82) 15P PLUG	XKP3067			
CN 813	(A,310,38) CONNECTOR	9604S-15C	CN 815	(A,290,89) 15P PLUG	XKM3010			
CN 816	(A,290,126) 21P PLUG	XKM3011	CN 827	19P PLUG	XKP3069			
810	(A,277,90) 11P CABLE HOLDER	51048-1100						
RESISTORS								
R 601	(A,99,48)	RD1/4PU102J	R 602	(A,228,42)	RD1/4PU102J			
R 603	(B,96,47)	RS1/16S103J	R 604	(B,225,47)	RS1/16S103J			
R 609	(A,96,35)	RD1/4PU563J	R 610	(A,225,35)	RD1/4PU563J			
R 611	(A,95,28)	RD1/4PU182J	R 612	(A,223,28)	RD1/4PU182J			
R 613	(A,119,21)	RD1/4PU563J	R 614	(A,247,21)	RD1/4PU563J			
R 615	(A,128,36)	RD1/4PU331J	△ R 617	(A,119,31) RESISTOR (0.22, 5W)	ACN7094			
R 619	(A,124,52)	RD1/4PU182J	R 620	(A,257,36)	RD1/4PU331J			
R 621	(A,129,49)	RD1/4PU821J	△ R 622	(A,248,31) RESISTOR (0.22, 5W)	ACN7094			
R 623	(A,121,48)	RD1/4PU223J	R 624	(A,257,52)	RD1/4PU182J			
R 626	(A,258,49)	RD1/4PU821J	R 628	(A,250,48)	RD1/4PU223J			
R 652	(A,215,36)	RD1/4PU102J	R 654	(B,219,41)	RS1/16S103J			
R 660	(A,220,29)	RD1/4PU563J	R 662	(A,216,20)	RD1/4PU182J			
R 664	(A,238,21)	RD1/4PU563J	R 666	(A,240,35)	RD1/4PU331J			
△ R 668	(A,239,31) RESISTOR (0.22, 5W)	ACN7094	R 670	(A,245,52)	RD1/4PU182J			
R 672	(A,240,57)	RD1/4PU821J	R 674	(A,236,38)	RD1/4PU223J			
R 681	(A,73,51)	RD1/4PU102J	R 682	(B,77,49)	RS1/16S103J			
R 685	(B,80,37)	RS1/16S563J	R 686	(B,85,21)	RS1/16S182J			
R 687	(A,88,11)	RD1/4PU563J						

Mark No.	Description	Part No.
R 690 (A,60,52)		RD1/4PU331J
⚠ R 691 (A,55,55) RESISTOR (0.22, 5W)		ACN7094
R 692 (A,70,72)		RD1/4PU182J
R 693 (A,67,77)		RD1/4PU821J
R 694 (A,62,72)		RD1/4PU223J
R 696 (B,281,38)		RS1/16S103J
R 697 (B,255,68)		RS1/16S103J
R 698 (B,243,67)		RS1/16S333J
R 701 (A,122,85)		RD1/4PU472J
R 702 (A,109,87)		RD1/4PU472J
R 703 (A,151,72)		RD1/4PU392J
R 704 (A,148,77)		RD1/4PU392J
R 705 (A,281,82)		RD1/4PU473J
R 706 (A,277,83)		RD1/4PU473J
R 707 (A,133,80)		RD1/4PU184J
R 708 (A,147,81)		RD1/4PU184J
⚠ R 709 (A,104,72) METAL OXIDE RESISTOR		RS1LMF272J
⚠ R 710 (A,89,93) METAL OXIDE RESISTOR		RS1LMF272J
⚠ R 711 (A,181,86) METAL OXIDE RESISTOR		RS2LMF242J
R 713 (A,114,85)		RD1/4PU102J
R 721 (A,145,77)		RD1/4PU103J
R 722 (A,125,78)		RD1/4PU103J
R 723 (A,271,78)		RD1/4PU473J
R 724 (A,274,83)		RD1/4PU473J
R 725 (A,276,74)		RD1/4PU103J
R 726 (B,286,62)		RS1/16S473J
R 727 (B,283,62)		RS1/16S103J
R 728 (B,106,9)		RS1/16S683J
R 730 (B,214,14)		RS1/16S683J
R 731 (A,122,73)		RD1/4PU220J
R 732 (A,101,89)		RD1/4PU220J
R 740 (B,87,141)		RS1/16S683J
R 741 (B,152,140)		RS1/16S472J
R 742 (B,169,143)		RS1/16S472J
R 743 (B,121,134)		RS1/16S472J
R 744 (B,137,143)		RS1/16S472J
R 745 (B,110,131)		RS1/16S472J
⚠ R 751 (A,158,119) CARBON FILM RESISTOR		RD1/4PUF101J
⚠ R 752 (A,185,120) CARBON FILM RESISTOR		RD1/4PUF101J
⚠ R 753 (A,156,126) METAL OXIDE RESISTOR		RS1LMF4R7J
⚠ R 754 (A,181,126) METAL OXIDE RESISTOR		RS1LMF4R7J
⚠ R 755 (A,103,117) CARBON FILM RESISTOR		RD1/4PUF101J
⚠ R 756 (A,101,126) METAL OXIDE RESISTOR		RS1LMF4R7J
⚠ R 761 (A,125,117) CARBON FILM RESISTOR		RD1/4PUF101J
⚠ R 762 (A,155,119) CARBON FILM RESISTOR		RD1/4PUF101J
⚠ R 763 (A,124,132) METAL OXIDE RESISTOR		RS1LMF4R7J
⚠ R 764 (A,149,139) METAL OXIDE RESISTOR		RS1LMF4R7J
R 777 (A,86,37)		RD1/4PU102J
R 778 (B,90,42)		RS1/16S103J
R 781 (A,92,30)		RD1/4PU563J
R 782 (A,89,22)		RD1/4PU182J
R 783 (A,109,21)		RD1/4PU563J
R 784 (A,116,35)		RD1/4PU331J
⚠ R 785 (A,110,31) RESISTOR (0.22, 5W)		ACN7094
R 786 (A,113,57)		RD1/4PU182J
R 787 (A,106,59)		RD1/4PU821J
R 788 (A,107,38)		RD1/4PU223J
R 806 (B,280,48)		RS1/16S103J
R 807 (B,278,48)		RS1/16S103J

Mark No.	Description	Part No.
R 808 (B,279,53)		RS1/16S102J
R 813 (B,273,131)		RS1/16S102J
R 885 (B,310,60)		RS1/16S221J
R 886 (B,310,64)		RS1/16S221J
R 887 (B,310,68)		RS1/16S221J
R 888 (B,324,76)		RS1/16S221J
R 1101 (B,273,68)		RS1/16S0R0J
R 1102 (B,274,61)		RS1/16S0R0J
R 1103 (B,70,136)		RS1/16S0R0J
R 1104 (B,138,132)		RS1/16S0R0J
R 1105 (B,168,135)		RS1/16S0R0J
R 1109 (B,285,58)		RS1/16S0R0J
CAPACITORS		
C 603 (B,99,39)		CKSRYB331K50
C 604 (B,227,38)		CKSRYB331K50
C 605 (A,101,38)		CEAT4R7M50
C 606 (A,230,38)		CEAT4R7M50
C 607 (B,100,20)		CCSRCH470J50
C 608 (B,230,17)		CCSRCH470J50
C 609 (A,96,32)		CEAT101M16
C 610 (A,225,32)		CEAT101M16
C 613 (B,121,27)		CCSRCJ3ROC50
C 614 (B,250,28)		CCSRCJ3ROC50
C 615 (A,121,45)		CEANP2R2M50
C 616 (A,250,45)		CEANP2R2M50
C 654 (B,217,33)		CKSRYB331K50
C 656 (A,215,33)		CEAT4R7M50
C 658 (B,221,17)		CCSRCH470J50
C 660 (A,219,25)		CEAT101M16
C 664 (B,241,24)		CCSRCJ3ROC50
C 666 (A,239,49)		CEANP2R2M50
C 682 (B,80,43)		CKSRYB331K50
C 683 (A,83,43)		CEAT4R7M50
C 684 (B,87,18)		CCSRCH470J50
C 685 (A,83,37)		CEAT101M16
C 687 (B,87,8)		CCSRCJ3ROC50
C 688 (A,75,78)		CEANP2R2M50
C 696 (B,281,36)		CKSRYB102K50
C 697 (A,286,29)		CEAT221M6R3
C 701 (A,49,80) E-CAP 5600/71		XCH3027
C 702 (A,49,107) E-CAP 5600/71		XCH3027
C 705 (A,156,81) ELECT. CAPACITOR		CEAT100M2A
C 706 (A,142,84) ELECT. CAPACITOR		CEAT100M2A
C 711 (A,195,99) ELECT. CAPACITOR		CEAT101M35
C 712 (A,188,105)		CEAT101M10
C 740 (A,90,136)		CEAT101M25
C 751 (A,159,143) FILM CAPACITOR		CQMB A104J50
C 752 (A,181,150) FILM CAPACITOR		CQMB A104J50
C 755 (A,103,147) FILM CAPACITOR		CQMB A104J50
C 761 (A,122,139) FILM CAPACITOR		CQMB A104J50
C 762 (A,152,145) FILM CAPACITOR		CQMB A104J50
C 778 (B,89,34)		CKSRYB331K50
C 779 (A,86,33)		CEAT4R7M50
C 780 (B,93,18)		CCSRCH470J50
C 781 (A,92,27)		CEAT101M16
C 783 (B,112,24)		CCSRCJ3ROC50
C 784 (A,110,48)		CEANP2R2M50
C 801 (A,248,114) ELECT. CAPACITOR		CEAT222M25

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
C 802	(A,249,100) ELECT. CAPACITOR	CEAT222M25	C 571	(B,254,213)	CKSBRYB473K50	
C 806	(B,281,53)	CKSBRYB105K16				
C 807	(B,233,89)	CKSBRYB103K25	C 572	(B,267,214)	CKSBRYB473K50	
C 808	(A,245,142) ELECT. CAPACITOR	CEAT472M16	C 577	(B,213,214)	CKSBRYB103K50	A
C 809	(A,232,95)	CEAT101M10	C 579	(A,205,205)	CEAT101M10	
			C 580	(A,199,205)	CEAT101M10	
			C 582	(B,212,199)	CKSBRYB103K50	
C 810	(A,266,133)	CEAT101M10				
C 811	(B,276,128)	CKSBRYB103K25				
C 812	(B,272,111)	CKSBRYB103K25				
C 813	(A,272,118)	CEAT101M16				
C 850	(A,210,92)	CEAT101M10				
C 860	(A,282,159)	CEAT101M25				
C 870	(B,249,134)	CKSBRYB104K50				

D TRANS2 ASSY

MISCELLANEOUS

△ IC 853	(A,32,204) PROTECTOR(4A)	AEK7018
J 21	JUMPER WIRE 11P	D20PYY1130E
CN 1201	(A,35,183) 4P JUMPER CONNECTOR	52147-0410
851	(A,49,207) 11P CABLE HOLDER	51048-1100

E COMPONENT VIDEO ASSY

MISCELLANEOUS

IC 551	(B,240,208) LOGIC IC	TC74HC4052AF
IC 552	(B,260,214) LOGIC IC	TC74HC4052AF
IC 553	(B,213,206) VIDEO IC	NJM2581M
JA 551	(A,253,178) 6P RCA PINJACK	XKB3025
JA 552	(A,211,178) 6P RCA PINJACK	XKB3025
CN 551	(A,196,213) CONNECTOR	9604S-07C
390	(A,235,239) PCB BINDER	VEF1040

RESISTORS

R 553	(B,242,194)	RS1/16S750J
R 554	(B,256,193)	RS1/16S750J
R 555	(B,270,193)	RS1/16S750J
R 556	(B,237,194)	RS1/16S750J
R 557	(B,251,196)	RS1/16S750J
R 558	(B,266,186)	RS1/16S750J
R 559	(B,199,196)	RS1/16S750J
R 560	(B,220,195)	RS1/16S750J
R 561	(B,228,193)	RS1/16S750J
R 562	(B,193,195)	RS1/16S750J
R 563	(B,217,199)	RS1/16S750J
R 564	(B,218,195)	RS1/16S750J
R 566	(B,243,218)	RS1/16S102J
R 567	(B,248,202)	RS1/16S102J
R 568	(B,248,204)	RS1/16S102J
R 569	(B,250,218)	RS1/16S102J
R 571	(B,254,228)	RS1/16S102J
R 572	(B,254,226)	RS1/16S102J
R 573	(B,229,202)	RS1/16S0R0J
R 574	(B,264,202)	RS1/16S0R0J
R 581	(B,247,209)	RS1/16S222J
R 582	(A,245,221)	RD1/4PU222J

CAPACITORS

C 567	(B,262,186)	CKSBRYB103K50
C 568	(B,204,186)	CKSBRYB103K50
C 569	(B,246,216)	CKSBRYB473K50
C 570	(B,233,208)	CKSBRYB473K50

F 5.1CH INPUT ASSY

MISCELLANEOUS

CN 307	(A,125,216) 7P CONNECTOR	52044-0745
CN 309	(A,167,225) PIN JACK(4P)	XKB3035

RESISTORS

R 1001	(B,147,233)	RS1/16S474J
R 1002	(B,150,226)	RS1/16S474J
R 1003	(B,149,236)	RS1/16S331J
R 1004	(B,150,228)	RS1/16S331J
R 1009	(B,150,224)	RS1/16S474J
R 1010	(B,151,212)	RS1/16S474J
R 1011	(B,150,222)	RS1/16S331J
R 1012	(B,150,214)	RS1/16S331J

CAPACITORS

C 1001	(B,151,233)	CCSRCH101J50
C 1002	(B,151,230)	CCSRCH101J50
C 1003	(B,143,233)	CKSBRYB221K50
C 1004	(B,147,230)	CKSBRYB221K50
C 1009	(A,146,236)	CEAT4R7M50
C 1010	(A,146,228)	CEAT4R7M50
C 1012	(B,159,226)	CKSBRYB103K50
C 1013	(B,151,219)	CCSRCH101J50
C 1014	(B,151,216)	CCSRCH101J50
C 1015	(B,147,224)	CKSBRYB221K50
C 1016	(B,147,216)	CKSBRYB221K50
C 1021	(A,146,214)	CEAT4R7M50
C 1022	(A,146,221)	CEAT4R7M50

G TRANS3 ASSY

MISCELLANEOUS

△ IC 357	(A,100,225) PROTECTOR(800MA)	AEK7008
D 363	(A,86,238) DIODE	1SR139-400(A)
J 22	3P PARALLEL WIRE	XDX3064
891	(A,106,233) 3P CABLE HOLDER	51048-0300

RESISTORS

R 881	(A,54,235)	RD1/4PU4R7J
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CAPACITORS

C 406	(A,96,232) ELECT. CAPACITOR	CEAT471M35
C 881	(A,13,234) FILM CAPACITOR	CFTLA104J2A
C 882	(A,23,239) FILM CAPACITOR	CFTLA104J2A

H FRONT DISPLAY ASSY

MISCELLANEOUS

IC 401	(B,121,181) DISPLAY U-COM	PE5550A
Q 442	(B,238,190) TRANSISTOR	RT1N241M
Q 484	(B,215,190) TRANSISTOR	2SA1576A
D 403	(B,226,189) DIODE	1SS355(A)
L 401	(A,242,159) RADIAL INDUCTOR	LFC42R2J

Mark No. Description**Part No.**

V 401 (A,189,200) FL TUBE
S 447 (A,94,113) SWITCH
S 448 (A,76,113) SWITCH
S 449 (A,58,113) SWITCH
S 450 (A,58,92) SWITCH

XAV3036
VSG1024
VSG1024
VSG1024
VSG1024

S 451 (A,76,92) SWITCH
S 452 (A,94,92) SWITCH
S 454 (A,89,136) SWITCH
S 455 (A,65,136) SWITCH
S 456 (A,40,136) SWITCH

VSG1024
VSG1024
VSG1024
VSG1024
VSG1024

S 457 (A,16,136) SWITCH
S 458 (A,40,113) SWITCH
S 459 (A,114,136) SWITCH
S 460 (A,138,136) SWITCH
S 461 (A,163,136) SWITCH

VSG1024
VSG1024
VSG1024
VSG1024
VSG1024

S 462 (A,187,136) SWITCH
S 463 (A,212,136) SWITCH
S 464 (A,236,136) SWITCH
S 471 (A,40,92) SWITCH

VSG1024
VSG1024
VSG1024
VSG1024

X 401 (A,149,165) CERAMIC RESONATOR
(5.00 MHz)

VSS1142

CN 401 (A,246,165) 17P CONNECTOR
515 FL HOLDER(FE)
404 (A,197,127) CABLE HOLDER(5P)
470 (A,37,174) CABLE HOLDER(3P)
471 (A,34,191) CABLE HOLDER(3P)

52044-1745
VNF1096
51063-0505
51063-0305
51063-0305

402 (A,223,169) REMOTE RECEIVER UNIT

GP1UE274XKC1

RESISTORS

R 401 (B,144,169)
R 402 (B,223,191)
R 403 (B,220,191)
R 405 (B,228,155)
R 406 (B,226,155)

RS1/16S105J
RS1/16S104J
RS1/16S104J
RS1/16S102J
RS1/16S103J

R 407 (B,78,176)
R 408 (B,80,176)
R 409 (B,75,176)
R 410 (B,73,176)
R 411 (B,229,189)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J

R 412 (B,235,187)
R 413 (B,235,184)
R 414 (B,235,182)
R 415 (B,235,180)
R 416 (B,235,178)

RS1/16S221J
RS1/16S221J
RS1/16S221J
RS1/16S221J
RS1/16S221J

R 417 (B,223,182)
R 419 (B,205,148)
R 420 (B,207,148)
R 421 (B,209,148)
R 422 (B,157,169)

RS1/16S101J
RS1/16S101J
RS1/16S101J
RS1/16S101J
RS1/16S104J

R 423 (B,131,167)
R 424 (B,83,176)
R 425 (B,206,185)
R 430 (B,235,175)
R 448 (B,87,114)

RS1/16S104J
RS1/16S104J
RS1/16S104J
RS1/16S0R0J
RS1/16S681J

R 449 (B,69,114)
R 450 (B,58,102)
R 451 (B,69,93)
R 452 (B,88,97)
R 453 (B,144,142)

RS1/16S821J
RS1/16S122J
RS1/16S162J
RS1/16S272J
RS1/16S472J

R 454 (A,101,135)

RD1/4PU681J

Mark No. Description**Part No.**

R 455 (A,75,136)
R 456 (A,50,136)
R 457 (A,26,136)
R 458 (B,34,114)

RD1/4PU821J
RD1/4PU122J
RD1/4PU162J
RS1/16S272J

R 459 (A,108,134)
R 460 (A,133,138)
R 461 (A,152,136)
R 462 (A,183,141)
R 463 (A,200,141)

RD1/4PU472J
RD1/4PU681J
RD1/4PU821J
RD1/4PU122J
RD1/4PU162J

R 464 (A,233,139)
R 465 (A,166,152)
R 471 (B,40,102)
R 472 (A,90,142)

RD1/4PU272J
RD1/4PU472J
RS1/16S512J
RD1/4PU472J

CAPACITORS

C 401 (B,247,155)
C 402 (B,247,153)
C 403 (A,232,168)
C 410 (B,60,193)
C 411 (B,62,193)

CKSRYB103K50
CKSRYB103K50
CEAT221M6R3
CKSRYB103K50
CKSRYB103K50

C 412 (A,49,178)
C 418 (B,141,179)
C 419 (B,103,183)
C 420 (A,44,184) ELECT. CAPACITOR
C 421 (B,160,169)

CEAT470M50
CKSRYB104K16
CKSRYB103K50
CEAT101M35
CKSRYB104K16

C 441 (B,225,176)
C 442 (A,239,146)
C 451 (B,125,166)
C 452 (B,103,164)
C 453 (B,122,166)

CKSRYB103K50
CEAL470M10
CKSRYB102K50
CKSRYB102K50
CKSRYB102K50

C 454 (B,100,164)
C 481 (B,140,191)
C 482 (B,126,201)
C 483 (B,126,199)
C 487 (B,84,160)

CKSRYB102K50
CCSRCH471J50
CCSRCH221J50
CCSRCH221J50
CKSRYB102K50

C 488 (B,81,160)
C 489 (B,74,163)
C 490 (A,71,163)

CKSRYB102K50
CKSRYB102K50
CKSRYB102K50

I ROTARY ENCODER ASSY

MISCELLANEOUS

S 502 (A,263,225) SWITCH
S 503 (A,282,225) SWITCH
S 504 (A,300,225) SWITCH
S 505 (A,300,212) SWITCH
S 506 (A,282,212) SWITCH

VSG1024
VSG1024
VSG1024
VSG1024
VSG1024

S 507 (A,263,212) SWITCH
S 513 (A,285,154) ROTARY ENCODER
511 (A,257,183) CABLE HOLDER(5P)

VSG1024
XSX3005
51063-0505

RESISTORS

R 503 (B,275,224)
R 504 (B,294,224)
R 505 (B,301,219)
R 506 (B,294,213)
R 507 (B,275,213)

RS1/16S681J
RS1/16S821J
RS1/16S122J
RS1/16S162J
RS1/16S272J

J POWER KEY ASSY

MISCELLANEOUS

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Mark No. Description**Part No.****Mark No. Description****Part No.**

R 305 (B,23,51)
R 306 (B,28,51)
R 307 (B,56,25)
R 308 (B,57,29)
R 310 (B,57,31)

RS1/16S750J
RS1/16S750J
RS1/16S102J
RS1/16S102J
RS1/16S102J

CAPACITORS

⚠ C 51 (A,261,64) FILM CAPACITOR
⚠ C 52 (A,265,57) SAFETY CAPACITOR
C 53 (A,291,21) ELECT. CAPACITOR
C 54 (A,300,11)
C 55 (A,307,21)

ACE7013
XCG3010
CEAT102M16
CEAT470M25
CKPUYF103Z25

R 311 (B,42,23)
R 312 (B,60,25)

RS1/16S102J
RS1/16S102J

⚠ R 313 (A,85,57) METAL OXIDE RESISTOR

RS3LMF390J

R 314 (B,84,61)
R 315 (B,64,59)

RS1/16S152J
RS1/16S152J

C 56 (A,311,21)
C 57 (A,314,21)

CKPUYF103Z25
CKPUYF103Z25

⚠ R 316 (A,67,39) METAL OXIDE RESISTOR

RS3LMF390J

R 317 (B,22,75)
R 318 (B,26,77)

RS1/16S102J
RS1/16S122J

R 319 (B,26,75)
R 391 (B,34,39)

RS1/16S472J
RS1/16S0R0J

R 392 (B,33,54)
R 393 (B,49,39)

RS1/16S0R0J
RS1/16S0R0J

S TRANS1 ASSY

TRANS1 ASSY has no service parts.

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.

CAPACITORS

C 304 (B,35,18)
C 305 (B,23,66)
C 306 (B,25,51)
C 307 (A,35,36)
C 308 (A,52,54)

CKSRYB221K50
CKSRYB221K50
CKSRYB221K50
CEAT470M25
CEAT470M25

C 309 (A,31,46)
C 310 (A,54,43)
C 311 (B,82,48)
C 313 (B,75,42)
C 333 (B,22,77)

CEAT470M25
CEAT101M16
CKSRYB473K25
CKSRYB473K25
CKSRYB331K50

C 338 (A,60,38)
C 339 (B,37,24)
C 340 (B,56,37)
C 1360 (B,18,51)

CEAT101M16
CKSRYB104K25
CKSRYB104K25
CKSRYB103K50

Q PRIMARY ASSY**MISCELLANEOUS**

⚠ IC 51 (B,236,11) IC
Q 51 (B,267,14) DIGITAL TR(SC-70)
D 51 (B,298,20) BRIDGE DIODE
D 55 (A,304,21) DIODE
D 56 (A,271,21) DIODE

NJM78L05UA
RT1N431M
DF06SA(A)
1SR139-400(A)
1SS133(A)

D 57 (A,266,25) DIODE
D 58 (A,314,13) DIODE
H 51 (A,231,34) FUSE CLIP
H 52 (A,250,34) FUSE CLIP
J 52 JUMPER WIRE

1SS133(A)
MTZJ5R1(B)(A)
AKR7001
AKR7001
D20PYY0410E

KN 51 (A,318,25) WRAPPING TERMINAL
KN 3001 (A,223,117) SCREW PLATE

VNF1084
VNE1948

⚠ RY 51 (A,271,57) JOE LOWPOWER RELAY
⚠ T 51 (A,288,56) STANDBY TRANSFORMER
⚠ CN 51 (A,236,47) AC CODE SOCKET

ASR7013
ATT7043
RKP1751

55 (A,317,9) 4P CABLE HOLDER

51048-0400

RESISTORS

⚠ R 51 (A,318,37) RESISTOR(2.2M, 1/2W)
R 52 (A,275,11)
R 53 (A,307,12)
R 54 (A,319,16)

RCN1080
RD1/2PM270J
RD1/4PU332J
RD1/4PU103J