

# STR-DA3ES/DA5ES/ VA555ES

## SERVICE MANUAL

Ver 1.2 2003.12

*US Model*  
*Canadian Model*  
STR-DA3ES/DA5ES  
*AEP Model*  
*E Model*  
*Chinese Model*  
STR-VA555ES



Photo: STR-VA555ES

This receiver incorporates Dolby\* Digital and Pro Logic Surround and the DTS\*\* Digital Surround System.

\* Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

\*\* “DTS”, “ES”, “DTS Digital Surround”, “DTS-ES Extended Surround”, and “Neo: 6” are trademarks of Digital Theater Systems, Inc.

### SPECIFICATIONS

#### STR-DA3ES/DA5ES AUDIO POWER SPECIFICATIONS

##### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

##### AMPLIFIER SECTION

###### POWER OUTPUT

###### Rated Power Output at Stereo Mode

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

STR-DA5ES: 110 W + 110 W

STR-DA3ES: 100 W + 100 W

(4 ohms 20 Hz – 20 kHz, THD 0.09 %)

STR-DA5ES: 90 W + 90 W

STR-DA3ES: 80 W + 80 W

##### Reference Power Output

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

STR-DA5ES: FRONT <sup>1)</sup>: 110 W + 110 W

CENTER <sup>1)</sup>: 110 W

SURR <sup>1)</sup>: 110 W + 110 W

SURR BACK <sup>1)</sup>: 110 W

STR-DA3ES: FRONT <sup>1)</sup>: 100 W + 100 W

CENTER <sup>1)</sup>: 100 W

SURR <sup>1)</sup>: 100 W + 100 W

SURR BACK <sup>1)</sup>: 100 W

(4 ohms 20 Hz – 20 kHz, THD 0.09 %)

STR-DA5ES: FRONT <sup>1)</sup>: 90 W + 90 W

CENTER <sup>1)</sup>: 90 W

SURR <sup>1)</sup>: 90 W + 90 W

SURR BACK <sup>1)</sup>: 90 W

STR-DA3ES: FRONT <sup>1)</sup>: 80 W + 80 W

CENTER <sup>1)</sup>: 80 W

SURR <sup>1)</sup>: 80 W + 80 W

SURR BACK <sup>1)</sup>: 80 W

1) Depending on the sound field settings and the source, there may be no sound output.

— Continued on next page —

## FM STEREO FM-AM RECEIVER

9-873-271-03

2003L02-1

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**Sony Corporation**

Home Audio Company

Published by Sony Engineering Corporation

# SONY®

# STR-DA3ES/DA5ES/VA555ES

## Frequency response

PHONO	RIAA equalization curve ±0.5 dB
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CD/SACD, TAPE, MD/DAT, TV/SAT, DVD/LD, VIDEO 1, 2, 3	10 Hz – 100 kHz +0.5/-2 dB (with sound field, equalizer, and bass boost bypassed)
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## Inputs (Analog)

PHONO	Sensitivity: 2.5 mV Impedance: 50 kilohms S/N <sup>2)</sup> : 86 dB (A, 2.5 mV <sup>3)</sup> )
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MULTI CHANNEL INPUT 1, 2, CD/ SACD, TAPE, MD/ DAT, DVD/LD, TV/ SAT, VIDEO 1, 2, 3	Sensitivity: 150 mV Impedance: 50 kilohms S/N <sup>2)</sup> : 100 dB (A, 150 mV <sup>3)</sup> )
---	--

2) INPUT SHORT.

3) Weighted network, input level.

## Inputs (Digital)

CD/SACD, DVD/LD (Coaxial)	Sensitivity: – Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
------------------------------	--

DVD/LD, TV/SAT, MD/DAT (Optical)	Sensitivity: – Impedance: – S/N: 100 dB (A, 20 kHz LPF)
-------------------------------------	--

## Outputs

TAPE, MD/DAT (REC OUT), VIDEO 1, 2 (AUDIO OUT)	Voltage: 150 mV Impedance: 10 kilohms
--	--

FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK, SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms
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## EQ

BASS:	99 Hz~1.0 kHz (21 steps)
MID:	198 Hz~10 kHz (37 steps)
TREBLE:	1.0 kHz~10 kHz (23 steps)
Gain levels:	±10 dB, 1 dB step

## FM TUNER SECTION

Tuning range	87.5 - 108.0 MHz
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Antenna terminals	75 ohms, unbalanced
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## Sensitivity

Mono:	18.3 dBf, 2.2 µV/75 ohms
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Stereo:	38.3 dBf, 22.5 µV/75 ohms
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Usable sensitivity	11.2 dBf, 1 µV/75 ohms
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## S/N

Mono:	76 dB
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Stereo:	70 dB
---------	-------

## Harmonic distortion at 1 kHz

Mono:	0.3%
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Stereo:	0.5%
---------	------

Separation	45 dB at 1 kHz
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Frequency response	30 Hz – 15 kHz, +0.5/-2 dB
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Selectivity	60 dB at 400 kHz
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## AM TUNER SECTION

### Tuning range

With 10-kHz tuning scale:	530 – 1710 kHz <sup>4)</sup>
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With 9-kHz tuning scale:	531 – 1710 kHz <sup>4)</sup>
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Antenna	Loop antenna
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Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
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S/N	54 dB (at 50 mV/m)
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Harmonic distortion	0.5 % (50 mV/m, 400 kHz)
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## Selectivity

At 9 kHz:	35 dB
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At 10 kHz:	40 dB
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4) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. Hold down TUNING + and press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

## VIDEO SECTION

### Inputs

Video:	1 Vp-p, 75 ohms
--------	-----------------

S-video:	Y: 1 Vp-p, 75 ohms
----------	--------------------

C:	0.286 Vp-p, 75 ohms
----	---------------------

### Outputs

Video:	1 Vp-p, 75 ohms
--------	-----------------

S-video: Y:	1 Vp-p, 75 ohms
-------------	-----------------

C:	0.286 Vp-p, 75 ohms
----	---------------------

**GENERAL**

<b>Power requirements</b>	120 V AC, 60 Hz
<b>Power consumption</b>	
Models of area code U	
STR-DA5ES:	420 W
STR-DA3ES:	410 W
Models of area code CA	
STR-DA5ES:	470 W
STR-DA3ES:	450 W
<b>Power consumption (during standby mode)</b>	1 W
<b>AC outlets</b>	2 switched, 120 W/1A
<b>Dimensions</b>	430 X 174 X 465 mm including projecting parts and controls
<b>Mass (Approx.)</b>	
STR-DA5ES:	20.0 kg
STR-DA3ES:	20.0 kg

- FM wire antenna (1)
- AM loop antenna (1)
- Audio/video/control S cord (1)
- Control S cord (mini jack) (1)
- Remote commander RM-LJ305 (STR-DA5ES) (1)
- Remote commander RM-US105 (STR-DA5ES) (1)
- Remote commander RM-PP505L (STR-DA3ES) (1)
- R6 (size-AA) batteries (2)
- LR6 (size-AA) batteries (3) (STR-DA5ES only. For RM-LJ305)

**STR-VA555ES**

**AMPLIFIER SECTION**

**Models of area code E:**

**Rated Power Output at Stereo Mode**

- (8 ohms 20 Hz – 20 kHz, THD 0.05 %)
  - 100 W + 100 W<sup>1)</sup>
- (4 ohms 20 Hz – 20 kHz, THD 0.09 %)
  - 90 W + 90 W<sup>1)</sup>

**Reference Power Output**

- (8 ohms 20 Hz – 20 kHz, THD 0.05 %)
  - FRONT<sup>3)</sup>: 100 W + 100 W
  - CENTER<sup>3)</sup>: 100 W
  - SURR<sup>3)</sup>: 100 W + 100 W
  - SURR BACK<sup>3)</sup>: 100 W
- (4 ohms 20 Hz – 20 kHz, THD 0.09 %)
  - FRONT<sup>3)</sup>: 90 W + 90 W
  - CENTER<sup>3)</sup>: 90 W
  - SURR<sup>3)</sup>: 90 W + 90 W
  - SURR BACK<sup>3)</sup>: 90 W

**Models of area code CH, AEP:**

**Rated Power Output at Stereo Mode**

- (8 ohms 1 kHz, THD 0.7 %)
  - 100 W + 100 W<sup>1)</sup>
  - 90 W + 90 W<sup>2)</sup>
- (4 ohms 1 kHz, THD 0.7 %)
  - 90 W + 90 W<sup>1)</sup>
  - 80 W + 80 W<sup>2)</sup>

**Reference Power Output<sup>2)</sup>**

- (8 ohms 1 kHz, THD 0.7 %)
  - FRONT<sup>3)</sup>: 100 W + 100 W
  - CENTER<sup>3)</sup>: 100 W
  - SURR<sup>3)</sup>: 100 W + 100 W
  - SURR BACK<sup>3)</sup>: 100 W
- (4 ohms 1 kHz, THD 0.7 %)
  - FRONT<sup>3)</sup>: 90 W + 90 W
  - CENTER<sup>3)</sup>: 90 W
  - SURR<sup>3)</sup>: 90 W + 90 W
  - SURR BACK<sup>3)</sup>: 90 W
- (8 ohms 20 Hz – 20 kHz, THD 0.05 %)
  - FRONT<sup>3)</sup>: 90 W + 90 W
  - CENTER<sup>3)</sup>: 90 W
  - SURR<sup>3)</sup>: 90 W + 90 W
  - SURR BACK<sup>3)</sup>: 90 W
- (4 ohms 20 Hz – 20 kHz, THD 0.05 %)
  - FRONT<sup>3)</sup>: 80 W + 80 W
  - CENTER<sup>3)</sup>: 80 W
  - SURR<sup>3)</sup>: 80 W + 80 W
  - SURR BACK<sup>3)</sup>: 80 W

**SPECIFICATIONS (CONTINUED)**

1) Measured under the following conditions:

Area code	Power requirements
E	240 V AC, 50 Hz
CH, AEP	230 V AC, 50 Hz

2) Measured under the following conditions:

Area code	Power requirements
CH, KR	220 V AC, 50 Hz

3) Depending on the sound field settings and the source, there may be no sound output.

**Frequency response**

PHONO	RIAA equalization curve ±0.5 dB
CD/SACD, TAPE, MD/DAT, TV/SAT, DVD/LD, VIDEO 1, 2, 3	10 Hz – 100 kHz +0.5/-2 dB (with sound field, equalizer, and bass boost bypassed)

**Inputs (Analog)**

PHONO	Sensitivity: 2.5 mV Impedance: 50 kilohms S/N <sup>4)</sup> : 86 dB (A, 2.5 mV <sup>5)</sup> )
MULTI CHANNEL INPUT 1, 2, CD/ SACD, TAPE, MD/ DAT, DVD/LD, TV/ SAT, VIDEO 1, 2, 3	Sensitivity: 150 mV Impedance: 50 kilohms S/N <sup>4)</sup> : 100 dB (A, 150 mV <sup>5)</sup> )

4) INPUT SHORT.

5) Weighted network, input level.

# STR-DA3ES/DA5ES/VA555ES

## Inputs (Digital)

CD/SACD, DVD/LD  
(Coaxial)      Sensitivity: –  
Impedance: 75 ohms  
S/N: 100 dB  
(A, 20 kHz LPF)

DVD/LD, TV/SAT,  
MD/DAT (Optical)      Sensitivity: –  
Impedance: –  
S/N: 100 dB  
(A, 20 kHz LPF)

## Outputs

TAPE, MD/DAT  
(REC OUT), VIDEO  
1, 2 (AUDIO OUT)      Voltage: 150 mV  
Impedance: 22 kilohms

FRONT L/R,  
CENTER,  
SURROUND L/R,  
SURROUND BACK,  
SUB WOOFER      Voltage: 2 V  
Impedance: 1 kilohms

## EQ

BASS:      99 Hz~1.0 kHz  
(21 steps)

MID (FRONT L/R, CENTER only):  
198 Hz~10 kHz  
(36 steps)

TREBLE: 1.0 kHz~10 kHz  
(23 steps)

Gain levels:      ±10 dB, 1 dB step

## FM TUNER SECTION

**Tuning range**      87.5 – 108.0 MHz

**Antenna terminals**      75 ohms, unbalanced

### Sensitivity

Mono:      18.3 dBf, 2.2 μV/75 ohms

Stereo:      38.3 dBf, 22.5 μV/75 ohms

**Usable sensitivity**      11.2 dBf, 1 μV/75 ohms

### S/N

Mono:      76 dB

Stereo:      70 dB

### Harmonic distortion at 1 kHz

Mono:      0.3%

Stereo:      0.5%

**Separation**      45 dB at 1 kHz

**Frequency response**      30 Hz – 15 kHz,  
+0.5/-2 dB

**Selectivity**      60 dB at 400 kHz

## AM TUNER SECTION

### Tuning range

#### Models of area code E

With 10-kHz tuning scale:      530 – 1610 kHz<sup>6)</sup>

With 9-kHz tuning scale:      531 – 1602 kHz<sup>6)</sup>

#### Models of area code CH, AEP

With 9-kHz tuning scale:      531 – 1602 kHz

**Antenna**      Loop antenna

**Usable sensitivity**      50 dB/m (at 1,000 kHz or  
999 kHz)

**S/N**      54 dB (at 50 mV/m)

**Harmonic distortion**      0.5 % (50 mV/m,  
400 Hz)

### Selectivity

At 9 kHz:      35 dB

At 10 kHz:      40 dB

6) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. Hold down TUNING + and press **I/⏪**. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

## VIDEO SECTION

### Inputs

Video:      1 V<sub>p-p</sub>, 75 ohms

S-video:      Y: 1 V<sub>p-p</sub>, 75 ohms

C: 0.286 V<sub>p-p</sub>, 75 ohms

### Outputs

Video:      1 V<sub>p-p</sub>, 75 ohms

S-video:      Y: 1 V<sub>p-p</sub>, 75 ohms

C: 0.286 V<sub>p-p</sub>, 75 ohms

## REMOTE CONTROL

### Remote control system

Infrared control  
Power requirements      4.5 V DC with three LR6  
(size-AA) alkaline  
batteries

### Dimensions

175 x 62 x 33 mm

**Mass (approx.)**      135 g excluding batteries

**GENERAL**

**Power requirements**

Area code	Power requirements
AEP	230 V AC, 50/60 Hz
CH, KR	220 – 230 V AC, 50/60 Hz
E	120/220/240 V AC, 50/60 Hz

**Power consumption**

Area code	Power consumption
CH, AEP, KR	390 W
E	400 W

**Power consumption (during standby mode)**

1 W

**AC outlets**

Area code	AC outlets
AEP	1 switched, 100 W MAX
E	2 switched, 100 W MAX

**Dimensions**

430 x 175 x 465 mm  
including projecting parts  
and controls

**Mass (Approx.)**

17.0 kg

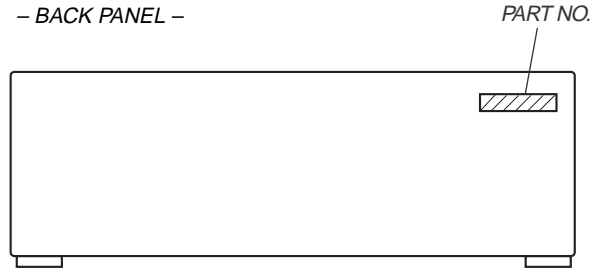
**Supplied accessories**

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander RM-LJ305 (1)
- LR6 (size-AA) batteries (3)

Design and specifications are subject to change without notice.

**MODEL IDENTIFICATION**

– BACK PANEL –



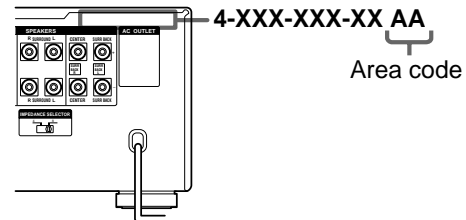
MODEL	PARTS No.
DA5ES: US model	4-234-163-0□
DA5ES: CND model	4-234-163-1□
DA3ES: US model	4-234-163-2□
DA3ES: CND model	4-234-163-3□
VA555ES: AEP model	4-234-163-4□
VA555ES: E model	4-234-163-5□
VA555ES: CH model	4-234-163-6□
VA555ES: KR model	4-234-163-7□

- Abbreviation  
CND : Canadian model  
CH : Chinese model  
KR : Korea model

**AREA CODE**

**About area codes**

The area code of the receiver you purchased is shown on the lower portion of the rear panel (see the illustration below).



Any differences in operation, according to the area code, are clearly indicated in the text, for example, “Models of area code AA only”.

**Fig. 1**

与安全有关的零部件须知

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

在原理图上用阴影及  $\triangle$  标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

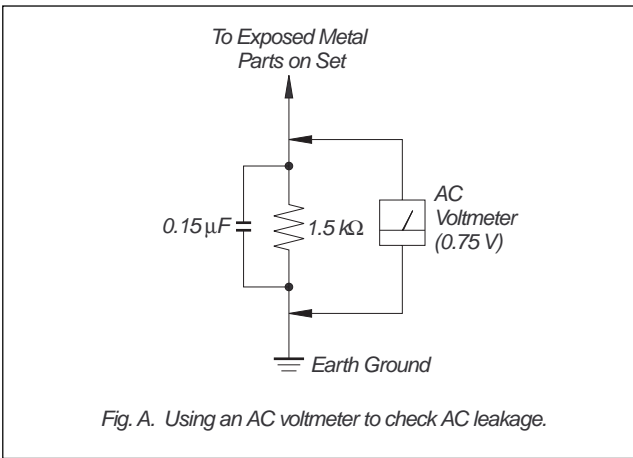
**SAFETY CHECK-OUT  
(US model only)**

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

**LEAKAGE**

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



**Notes on chip component replacement**

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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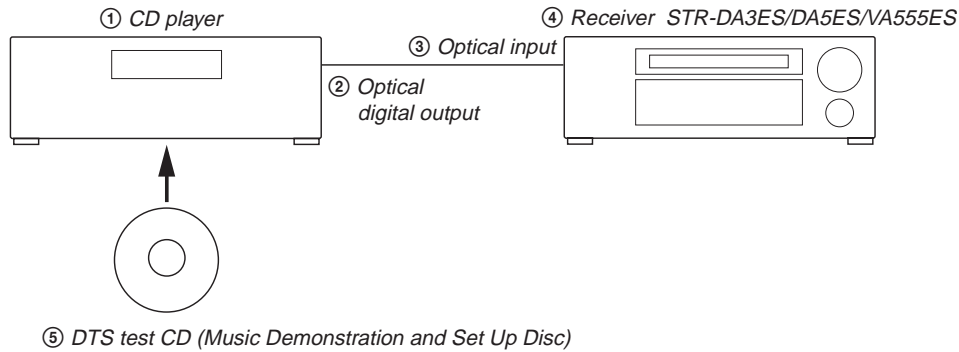
## SECTION 1 SERVICE NOTE

### DTS Decode Test

**• Required Instrument**

- CD player (equipped with optical digital output)
- Optical cable
- DTS test CD (J-2501-154-A)

**Connection:**



**Procedure:**

1. Set the FUNCTION of the receiver to the CD position and confirm that " OPTICAL " and "CD" appear on the display.
2. Insert the DTS test CD into the CD player and play the CD.
3. About three seconds later, confirm that the receiver recognizes the optical signal and that the "DTS" and "dts [3/2]" are appear on the display. Confirm also that MULTI CHANNEL DECODING (blue lamp) flashes on the front panel.

Set-Up

Track No.	Contents	Time
6	1 kHz sine (All channels) Level Adjustment and Harmonic Distortion Analysis	1'00"
7	100 Hz sine (All channels) Verification of Signal and Subwoofer Testing	1'00"
8	C-Weighted Pink Noise-Left Front Channel	1'00"
9	C-Weighted Pink Noise-Center Channel	2'00"
10	C-Weighted Pink Noise-Right Front Channel	2'00"
11	C-Weighted Pink Noise-Right Rear Channel	2'00"
12	C-Weighted Pink Noise-Left Rear Channel	2'00"
13	C-Weighted Pink Noise-Subwoofer (LEE)	2'00"
14	C-Weighted Pink Noise-All Channels	2'00"
15	10 Hz to 20 kHz Sine Sweep An "All Channel" Frequency Response Test	2'00"
16	20 Hz to 160 Hz sine sweep A "Subwoofer" Low Frequency Response Test	2'00"

Music Demonstration

Track No.	Contents	Time
1	Seal : "Prayer for the Dying"	5'40"
2	Andrew Litton conducting The Dallas Symphony Orchestra & Chorus: Excerpt from Tchaikovsky: "1812 Overture"	4'16"
3	Alan Parsons with Christopher Cross: "So Far Away"	4'08"
4	Shoelss Joe: "The Bet"	3'29"
5	TELARC: "A Touch of Surround Madness"	6'42"

\* Track numbers from 8 to 14 are for Room Equalization and Channel Identification.

**Note:** Be careful about an electrical shock caused by remains of electrical potential.

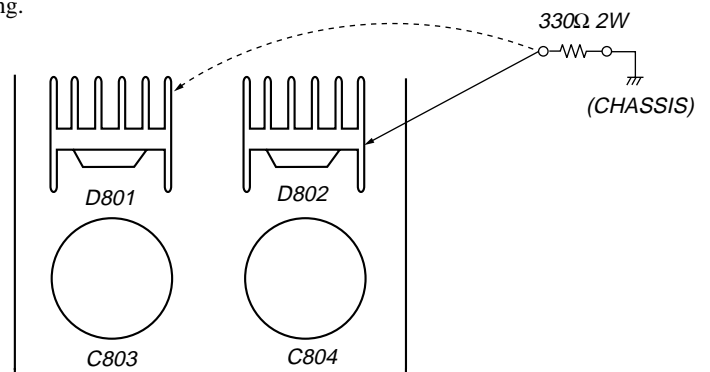
The following parts on DC board have the +B or -B electrical potential.

- Heat sink for rectifier diodes D801, 802
- Aluminium case of smoothing capacitor C803, 804

The 40-60V electrical voltage remains in C803, 804 when the power turns off.  
Be sure to discharge in the following manner before servicing.

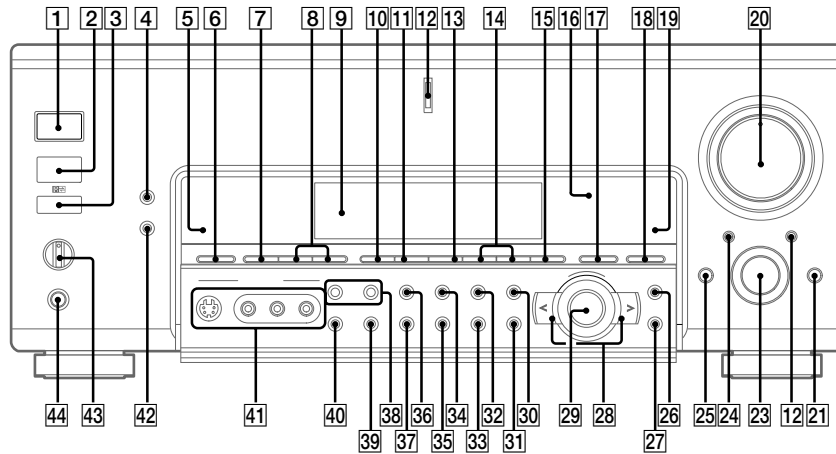
**Discharging**

1. Pull out the power cord from the wall outlet.
2. Connect 330 ohm 2W resistors between the heat sinks for D801 and 802 and chassis individually.
3. Check the electrical potential drops fully, then start servicing.



**DC BOARD (COMPONENT SIDE)**

## FRONT PANEL

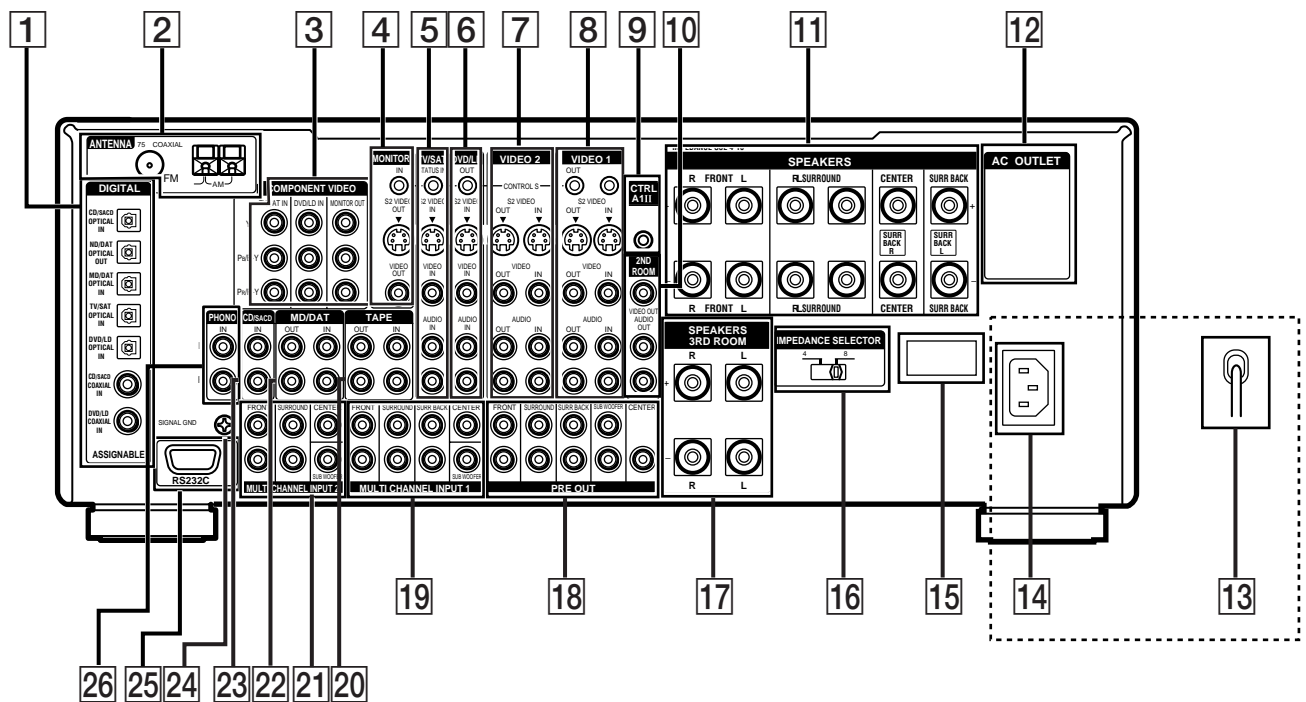


2CH **15**  
 2ND ROOM (STR-DA3ES, VA555ES only) **36**  
 2ND/3RD ROOM (STR-DA5ES only) **36**  
 6.1CH indicator **19**  
 6.1CH DECODING **18**  
 A.F.D. **10**  
 AUDIO SPLIT **24**  
 CINEMA STUDIO EX **11**  
 Cursor buttons ( </> ) **28**  
 Digital Cinema Sound indicator **16**  
 DIGITAL CONCERT HALL **13**  
 DIMMER **42**  
 Display **9**  
 DISPLAY **4**  
 DOOR OPEN **25**  
 ENTER **27**  
 EQ **31**  
 EQUALIZER **35**  
 FM/AM **7**  
 FM MODE **40**  
 FUNCTION **23**  
 INPUT MODE **22**  
 IR emitter (STR-DA5ES, VA555ES only) **3**  
 IR receptor **2**  
 Jog dial **29**  
 LEVEL **30**  
 MASTER VOLUME **20**  
 MEMORY **39**  
 MODE +/- **14**  
 MULTI/2CH ANALOG DIRECT **17**  
 MULTI CHANNEL DECODING indicator qs  
 MUTING **12**  
 NAME **21**  
 NIGHT MODE **6**

NIGHT MODE indicator **5**  
 ON SCREEN **34**  
 PHONES jack **44**  
 PRESET TUNING +/- **8**  
 PTY SELECT +/- (Models of area code AEP only) **38**  
 RDS/PTY (Models of area code AEP only) **37**  
 SET UP **26**  
 SLEEP **37**  
 SPEAKERS switch **43**  
 SURROUND **32**  
 TUNING +/- **38**  
 VIDEO 3 INPUT jacks **41**  
 I/O (power) **1** (18, 24, 38)



## REAR PANEL



- |  |  |
|--|--|
| <p><b>1</b> DIGITAL jack<br/>OPTICAL CD/SACD IN<br/>MD/DAT OUT<br/>MD/DAT IN<br/>TV/SAT IN<br/>DVD/LD IN<br/>COAXIAL CD/SACD IN<br/>DVD/LD IN</p> <p><b>2</b> ANTENNA terminal<br/>AM<br/>FM</p> <p><b>3</b> COMPONENT VIDEO jack<br/>TV/SAT IN: Y,CB/B-Y,CR/R-Y<br/>DVD/LD IN: Y,CB/B-Y,CR/R-Y<br/>MONITOR OUT: Y,CB/B-Y,CR/R-Y</p> <p><b>4</b> MONITOR jack<br/>CONTROL S IN (DA3ES, DA5ES model)<br/>S2 VIDEO OUT<br/>VIDEO OUT</p> <p><b>5</b> TV/SAT jack<br/>CONTROL S STATAS IN (DA3ES, DA5ES model)<br/>S2 VIDEO IN<br/>AUDIO IN</p> <p><b>6</b> DVD/LD jack<br/>CONTROL S OUT (DA3ES, DA5ES model)<br/>S2 VIDEO IN<br/>VIDEO IN<br/>AUDIO IN</p> <p><b>7</b> VIDEO 2 jack<br/>S2 VIDEO IN/OUT<br/>VIDEO IN/OUT<br/>AUDIO IN/OUT</p> <p><b>8</b> VIDEO 1 jack<br/>CONTROL S IN/OUT<br/>S2 VIDEO IN/OUT<br/>VIDEO IN/OUT<br/>AUDIO IN/OUT</p> | <p><b>9</b> CONTROL A1II jack</p> <p><b>10</b> 2ND ROOM jack<br/>VIDEO OUT<br/>AUDIO OUT</p> <p><b>11</b> SPEAKERS terminal<br/>FRONT<br/>SURROUND<br/>CENTER<br/>SURR BACK</p> <p><b>12</b> AC OUTLET</p> <p><b>13</b> AC power cord (DA3ES model)</p> <p><b>14</b> AC INLET (DA5ES, VA555ES model)</p> <p><b>15</b> VOLTAGE SELECTOR switch (VA555ES: E model)</p> <p><b>16</b> IMPEDANCE SELECTOR switch</p> <p><b>17</b> SPEAKERS 3RD ROOM terminal (DA3ES, DA5ES model)</p> <p><b>18</b> PRE OUT jack<br/>FRONT<br/>SURROUND<br/>SURR BACK<br/>SUB WOOFER<br/>CENTER</p> <p><b>19</b> MULTI CHANNEL INPUT 1 jack<br/>FRONT<br/>SURROUND<br/>SURR BACK<br/>CENTER</p> <p><b>20</b> TAPE jack<br/>IN/OUT</p> <p><b>21</b> MULTI CHANNEL INPUT 2 jack<br/>FRONT<br/>SURROUND<br/>CENTER<br/>SUB WOOFER</p> <p><b>22</b> MD/DAT jack<br/>IN/OUT</p> <p><b>23</b> CD/SACD IN jack</p> <p><b>24</b> SIGNAL GND</p> <p><b>25</b> RS232C connector</p> <p><b>26</b> PHONO IN jack</p> |
|--|--|

## SECTION 3 TEST MODE

### FLUORESCENT INDICATOR TUBE TEST MODE

All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

1. While depressing, the **[DISPLAY]** and the **[ENTER]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
2. All segments turn on at the same time, then each segment turns on press the **[DIMMER]** button.

### FACTORY SET MODE

All preset contents are reset to the default setting.

Procedure:

Procedure:

1. While pressing **[SET UP]** and **[DIMMER]** buttons, press **[I/⏻]** button, then "TUNER FACTORY PRESET" is displayed in several seconds and PRESET is complete.

### ALL CLEAR MODE

Procedure:

1. Turn power off by pressing **[I/⏻]** button.
2. Hold down **[I/⏻]** button for 5 seconds, then "ENTER to Clear All" is displayed.
3. Press **[ENTER]** button.
4. After "MEMORY CLEARING..." is displayed for a while, "MEMORY CLEARED!" is displayed.

### SOUND FIELD CLEAR MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While depressing the **[MODE +]** button, press the power **[I/⏻]** button to turn on the main power. The message S.F Initialize appears and initialization is performed.

### AM CHANNEL STEP 9 KHZ/10 KHZ

#### SELECTION MODE

#### (DA3ES, DA5ES, VA555ES: E MODELS)

Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

1. Set the FUNCTION to AM. Turn off the main power.
2. While depressing the **[TUNING +]** button press the power **[I/⏻]** button to turn on the main power.
3. Either the message AM 9kHz Step or AM 10kHz Step appears. Select the desired step.

### VERSION MODE

Procedure:

1. Turn power on by pressing **[I/⏻]** button.
2. Press the **[ENTER]** and **[SURROUND]** buttons simultaneously, then "MENU EXPAND" is displayed.
3. Press the **[>]** button several times to display "@@@@ #### V.X.XX [ ] [ ] [ ] [ ]".

@ : Model name

# : Destination

X : Version

[ ] : Sum value

## SECTION 4 ELECTRICAL ADJUSTMENT

### [IDLING CURRENT ADJUSTMENT]

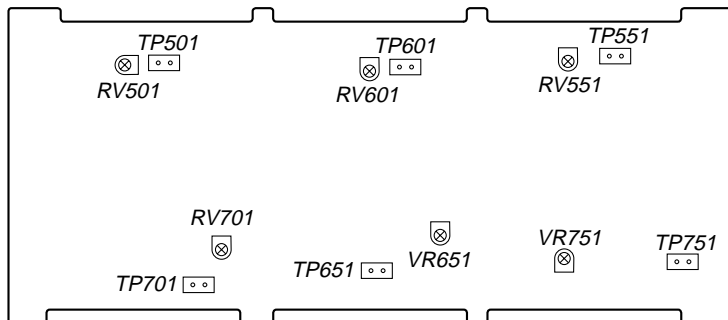
**Measuring Instrument:** Digital voltmeter

**Adjustment Procedure:** Adjust the respective adjustment elements so that the voltage (absolute value) across the corresponding testpoints satisfies the specification.

Channel	Test point	Adjustment element	Specification
FRONT L	TP501	RV501	4.0mV±0.5mV
FRONT R	TP551	RV551	
CENTER	TP601	RV601	
SURROUND	TP701	RV701	
SURROUND	TP751	RV751	
SURR BACK	TP651	RV651	

**Adjustment Location:**

### [POWER AMP BOARD]

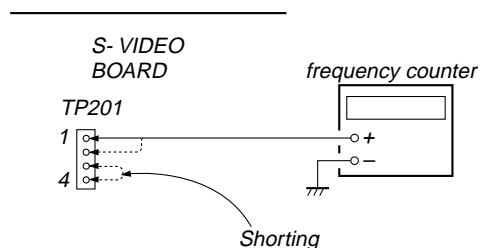


### [OSD ADJUSTMENT]

**Measuring Instrument:** frequency counter

**Procedure:**

1. Connect the frequency counter to check connector (TP201) of the S VIDEO board.
2. Connect between Pin ③ to Pin ④ of TP201 by lead wire.
3. Adjust the respective adjustment element so that the frequency counter read specification.

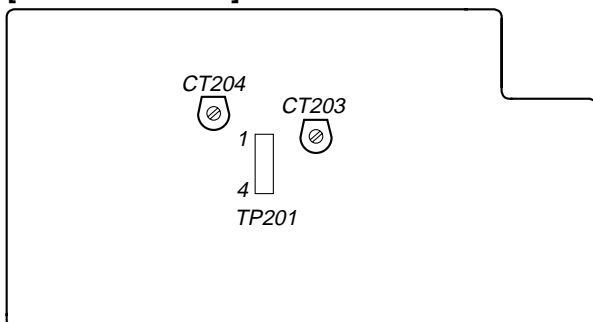


Adj.	MODEL		Adjustment element	measurement point	Specification
I	VA555ES	NTSC	CT202 (CLOCK BOARD)	TP201 Pin ①	3.579545MHz ±50Hz
		PAL	CT201 (CLOCK BOARD)		4.433618MHz ±50Hz
	DA3ES, DA5ES		CT203 (S-VIDEO BOARD)		3.57954MHz ±50Hz
II	All models		CT204 (S-VIDEO BOARD)	TP201 Pin ②	7.20MHz ±0.01MHz

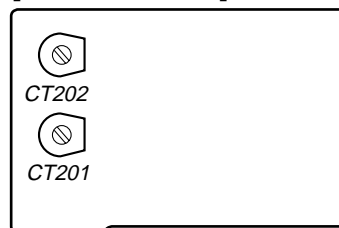
4. After check, remove the lead wire connected in step 2.

**Adjustment Location:**

### [S-VIDEO BOARD]

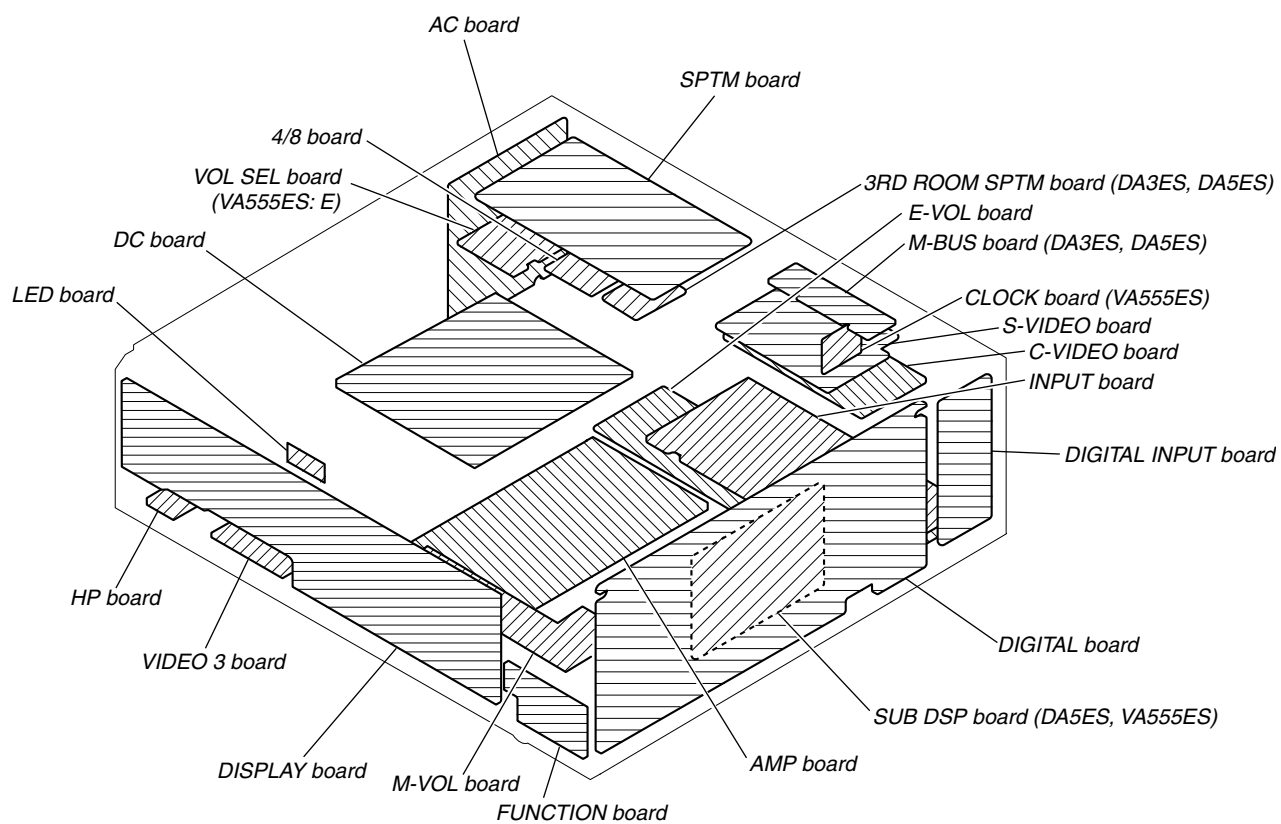


### [CLOCK BOARD]



SECTION 5  
DIAGRAMS




5-1. CIRCUIT BOARDS LOCATION



**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (IN ADDITION TO THIS NECESSARY NOTE IS PRINTED IN EACH BLOCK.)**

**For schematic diagrams.**

**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- % : indicates tolerance.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.







**Note:**

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:**




Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

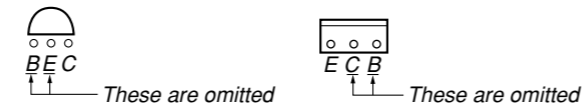
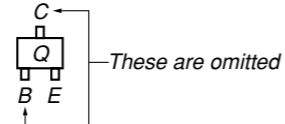
以阴影和  $\Delta$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
No mark : FM
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.  
 : FM  
 : CD (ANALOG)  
 : CD (DIGITAL)
- Abbreviation  
CND : Canadian model  
CH : Chinese model  
KR : Korea model

**For printed wiring boards.**

**Note:**

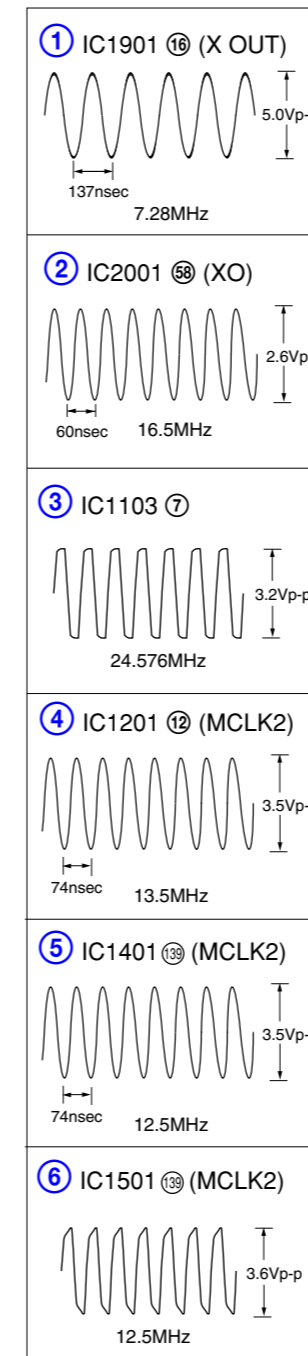
-  : parts extracted from the component side.
-  : Through hole.
-  : Pattern from the side which enables seeing.
- There are few cases that the part isn't mounted in model is printed on diagram.



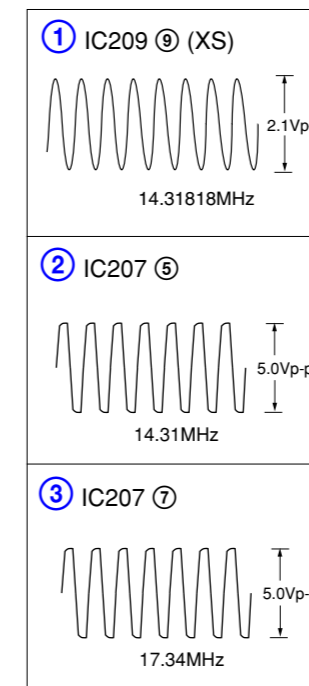
There are a few cases that the part printed on this diagram isn't mounted in the model.

**• Waveform**

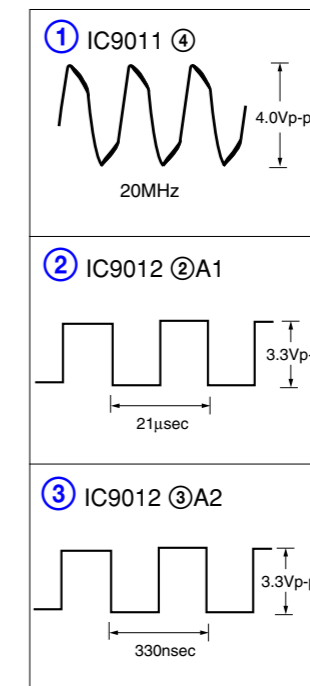
**• DIGITAL SECTION**



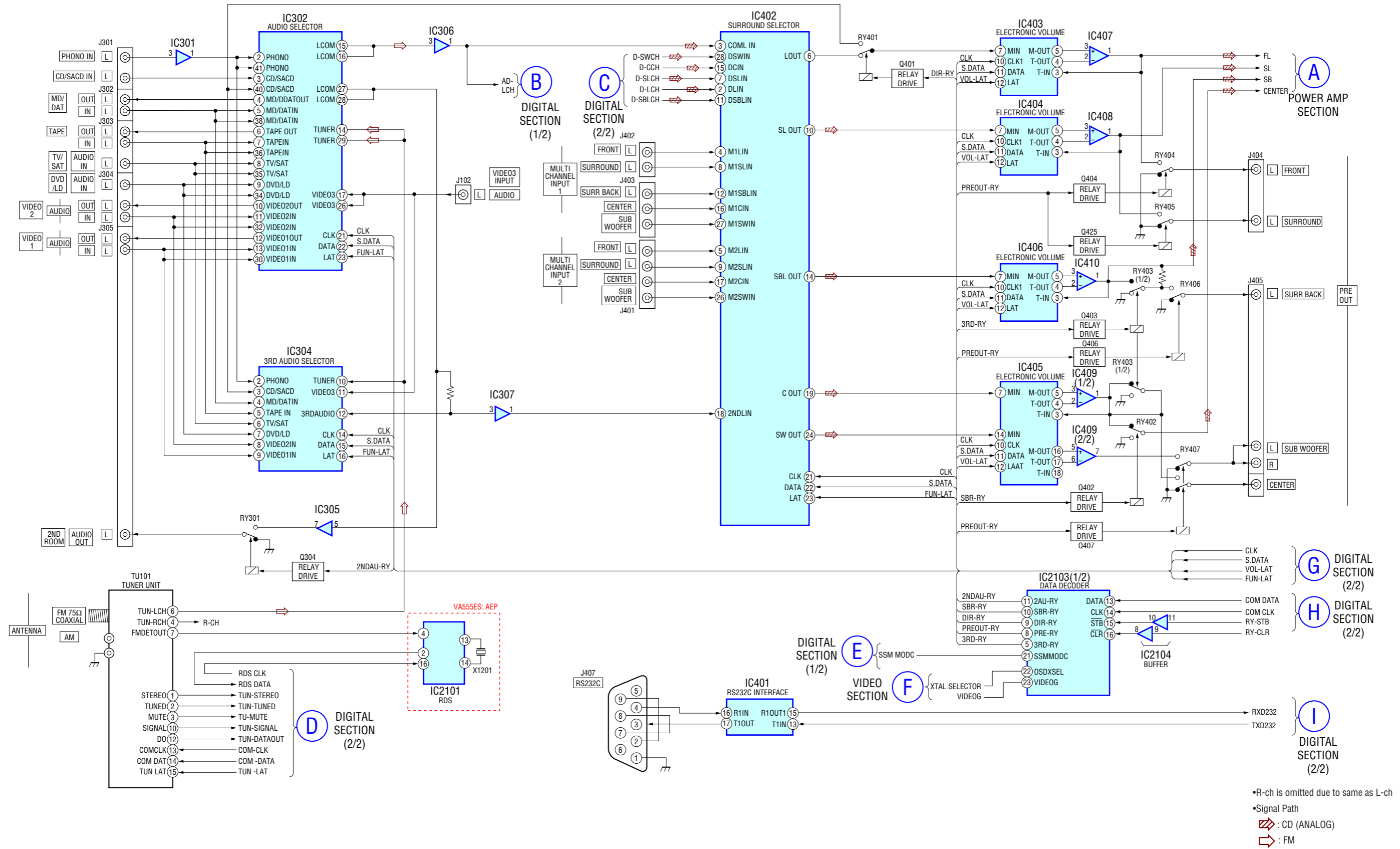
**• S-VIDEO SECTION**



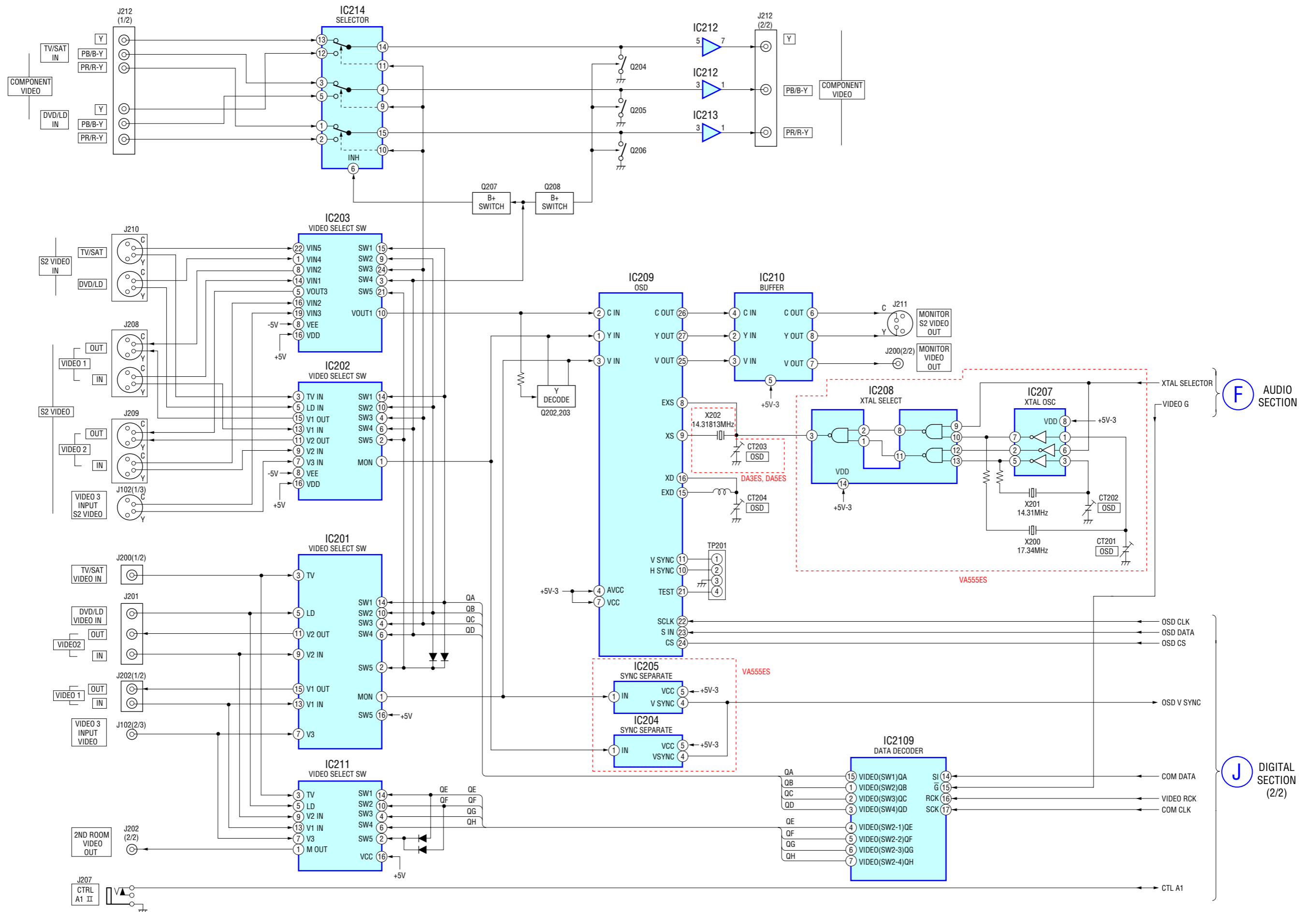
**• SUB DSC SECTION**



5-2. BLOCK DIAGRAM – AUDIO SECTION –



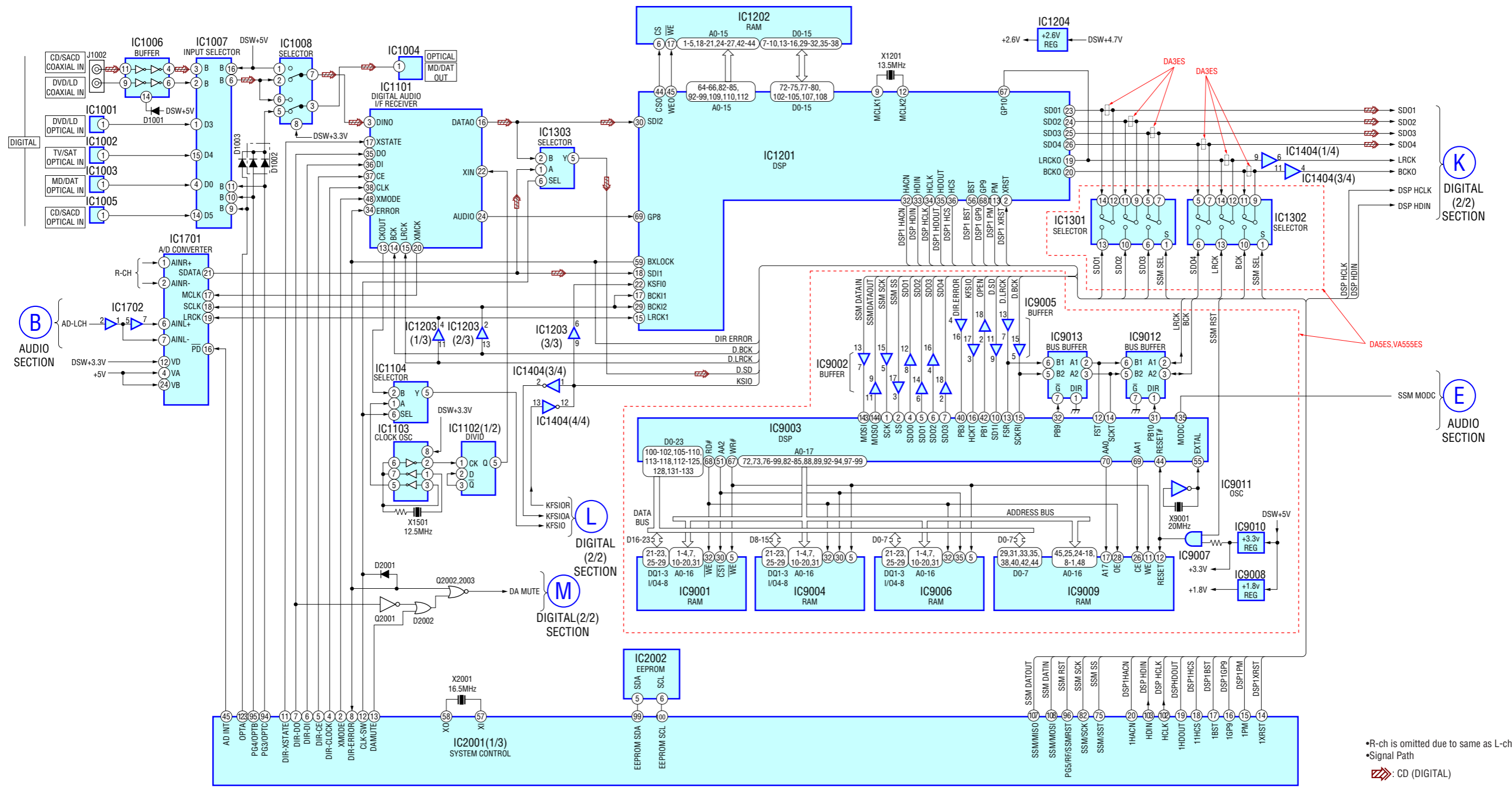
- VIDEO SECTION -



F AUDIO SECTION

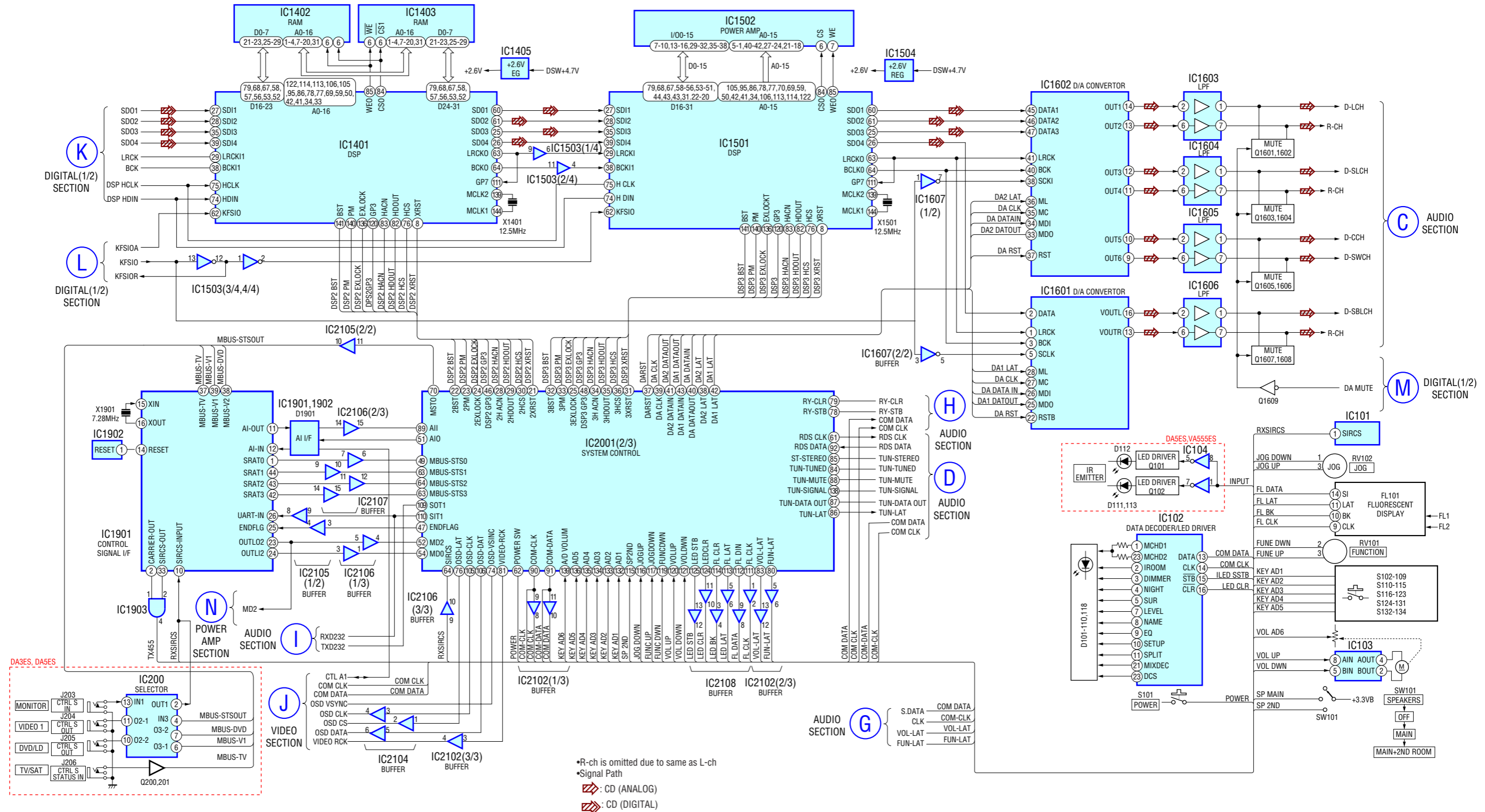
J DIGITAL SECTION (2/2)

- DIGITAL SECTION (1/2) -

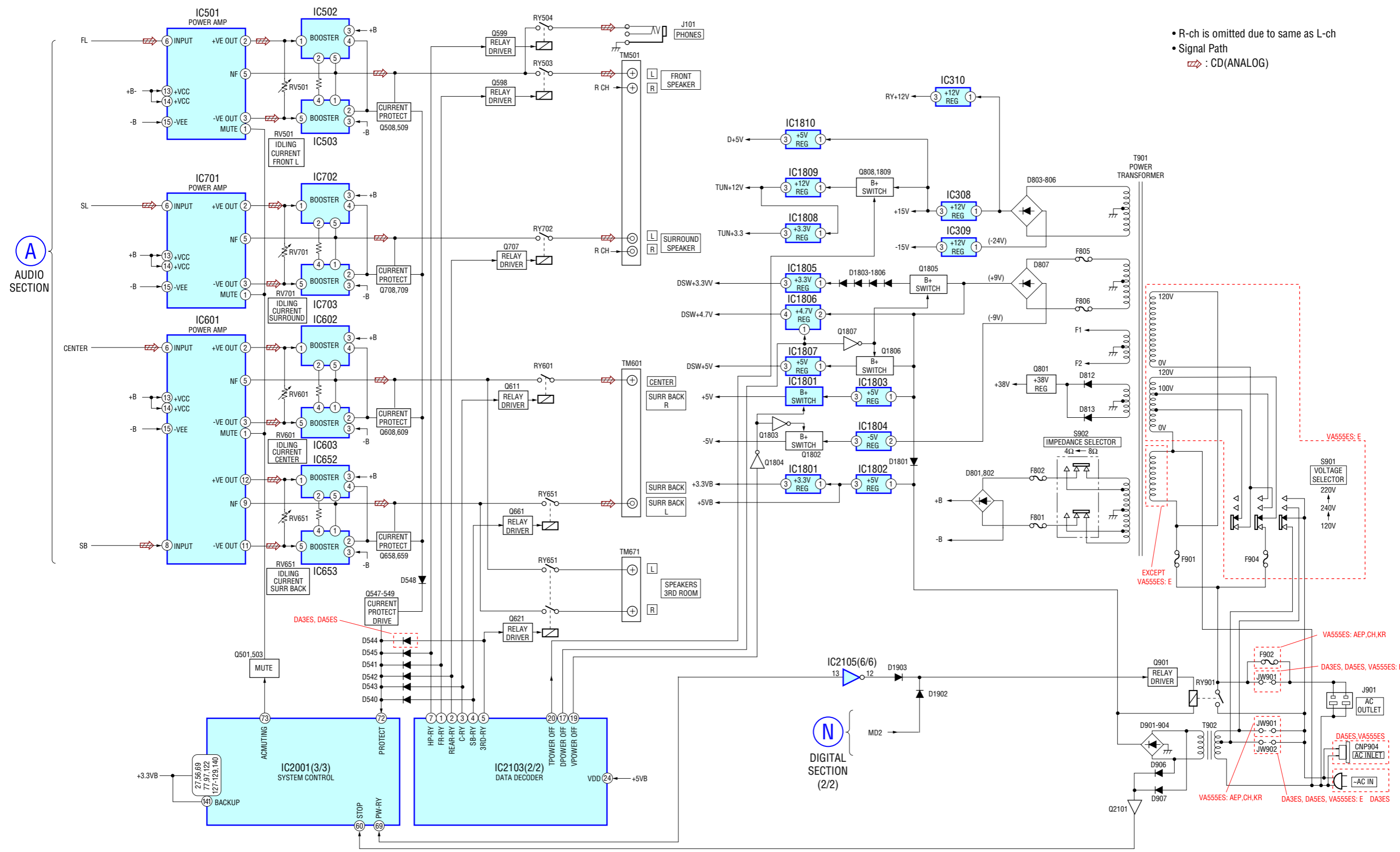




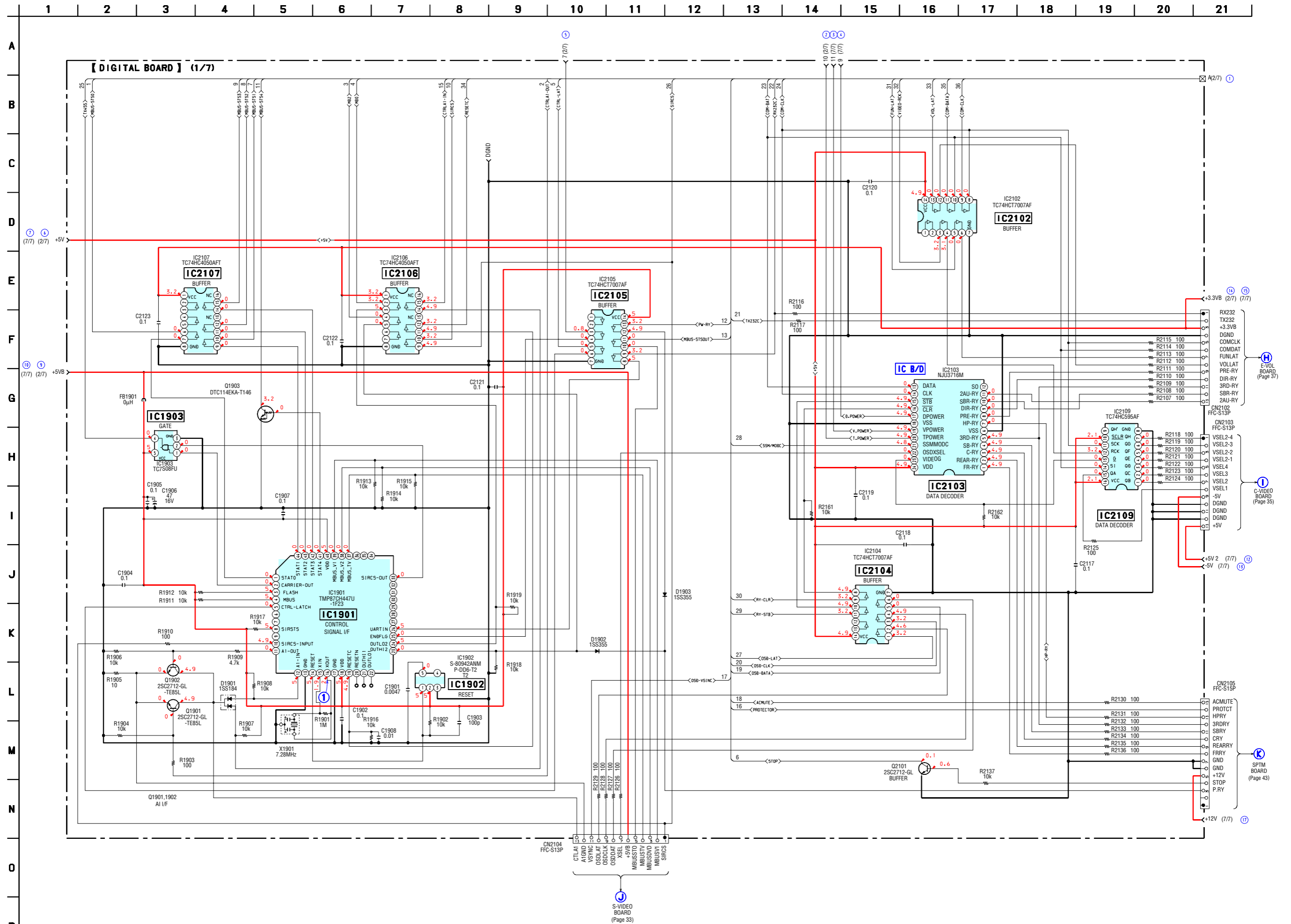
- DIGITAL SECTION (2/2) -



- POWER AMP SECTION -

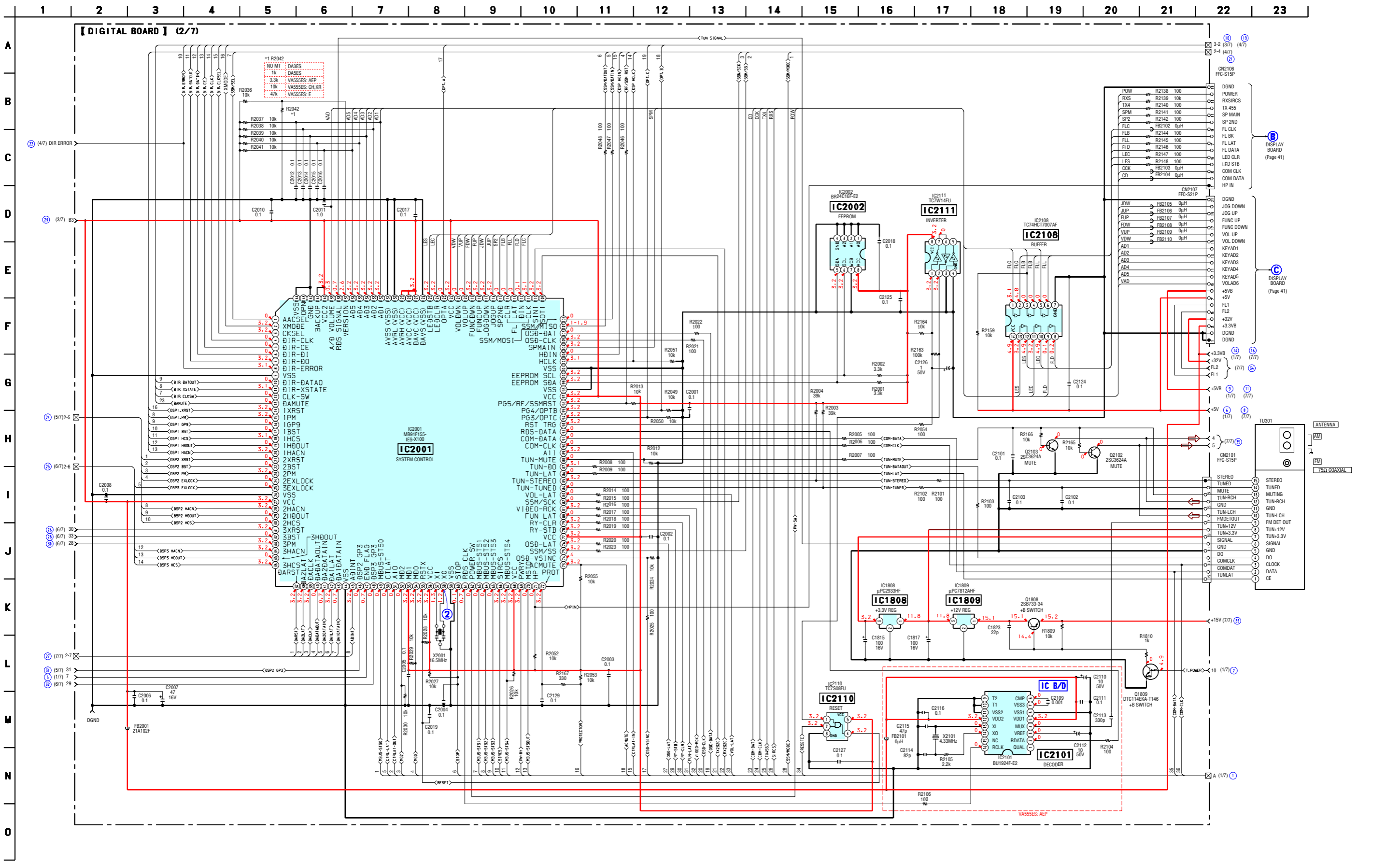


5-3. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/7) — • See page 13 for Waveforms.



5-4. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/7) —

- See page 13 for Waveforms.
- See page 50 for IC Block Diagram.
- See page 47 for IC Pin Function.

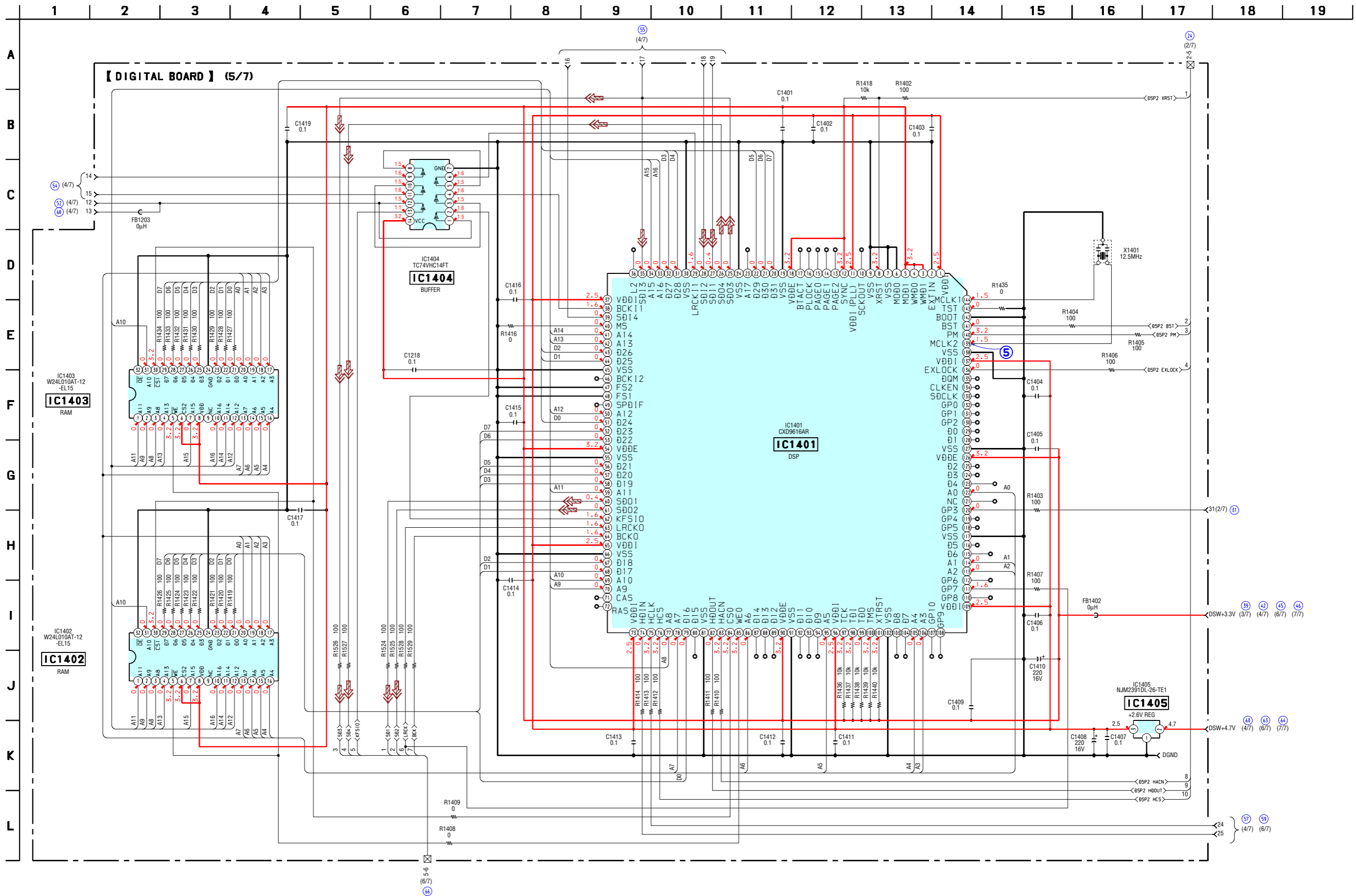






5-7. SCHEMATIC DIAGRAM — DIGITAL SECTION (5/7)—

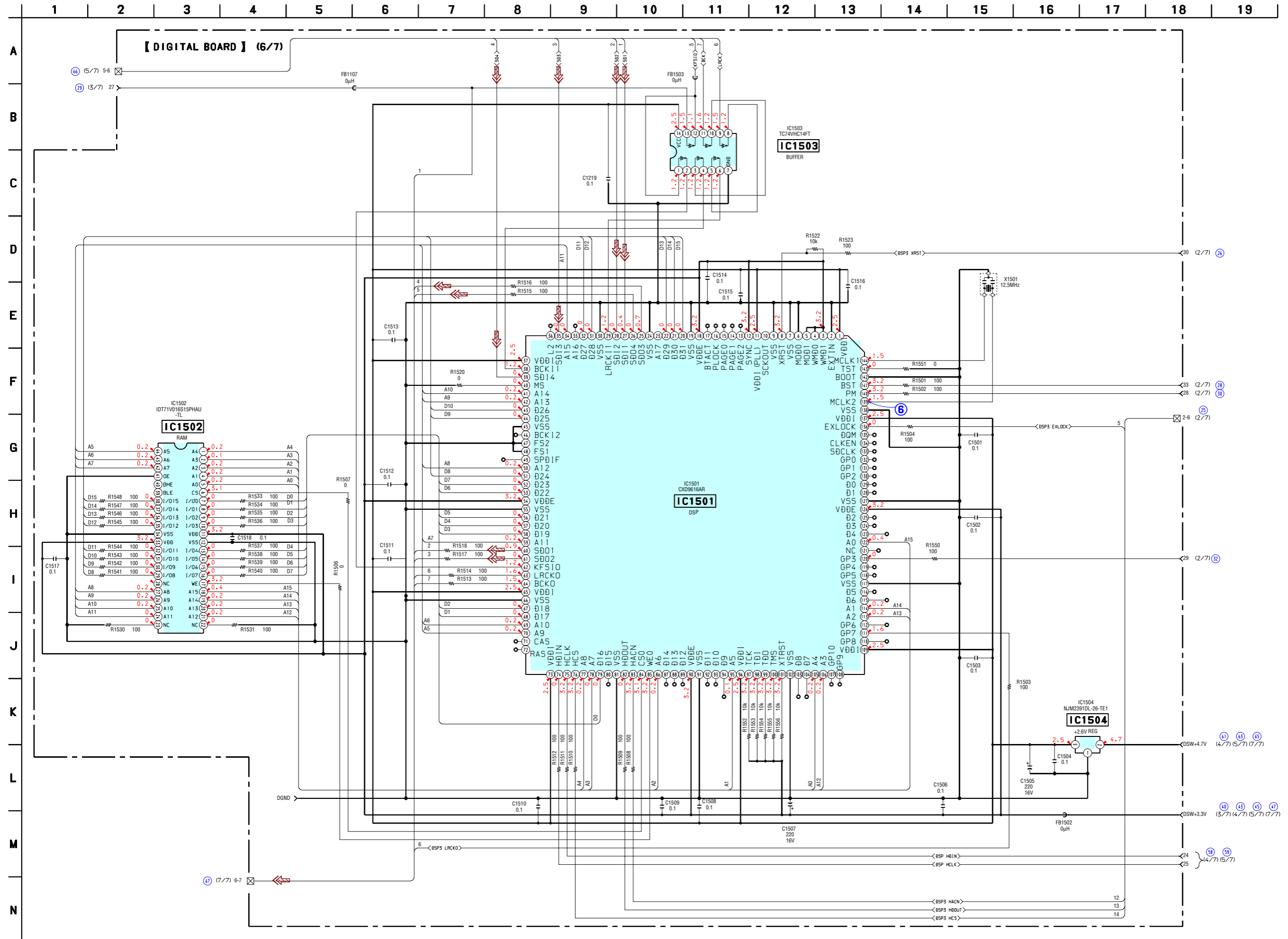
• See page 13 for Waveforms.



STR-DA3ES/DA5ES/VA555ES

5-8. SCHEMATIC DIAGRAM — DIGITAL SECTION (6/7) —

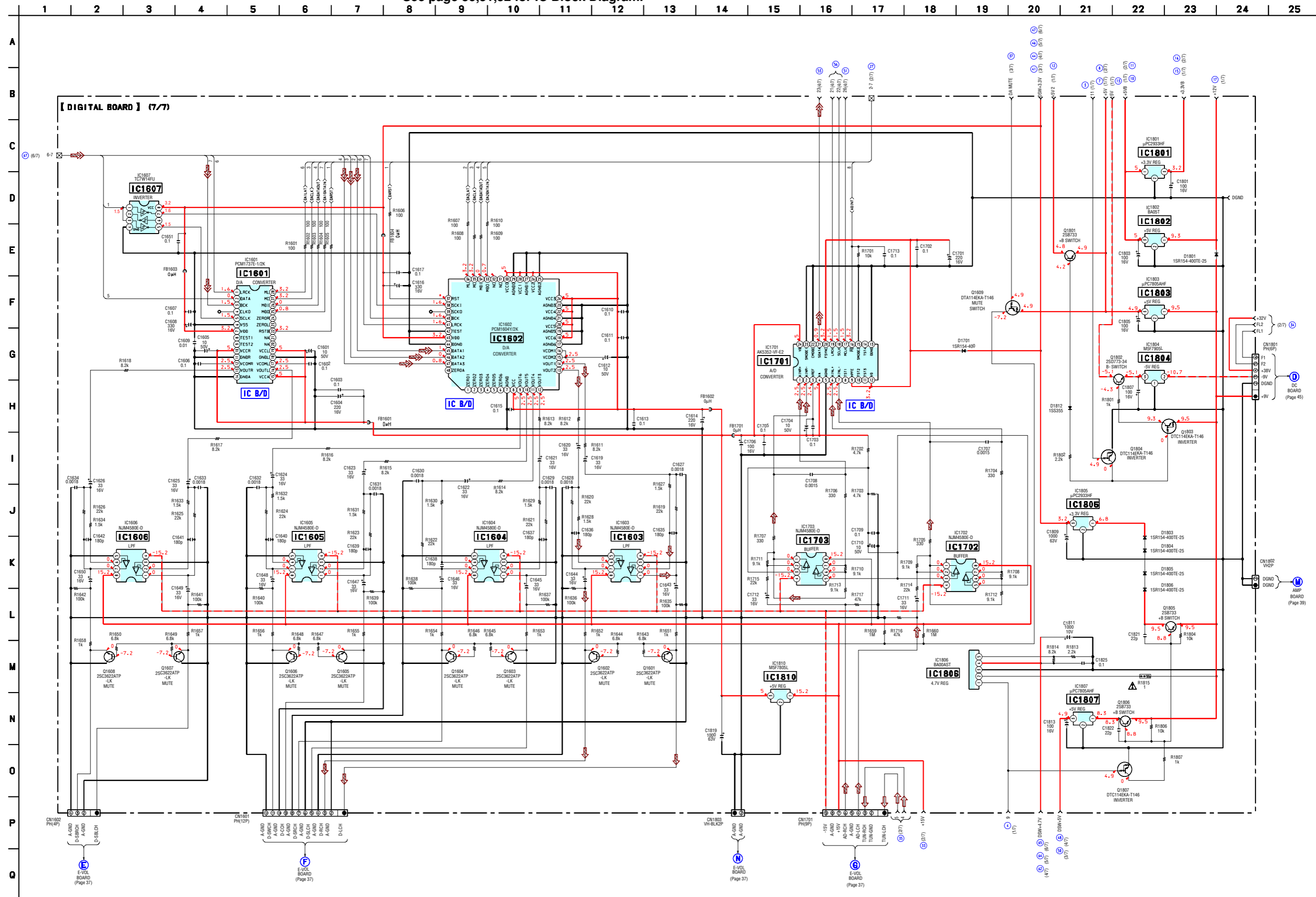
• See page 13 for Waveforms.



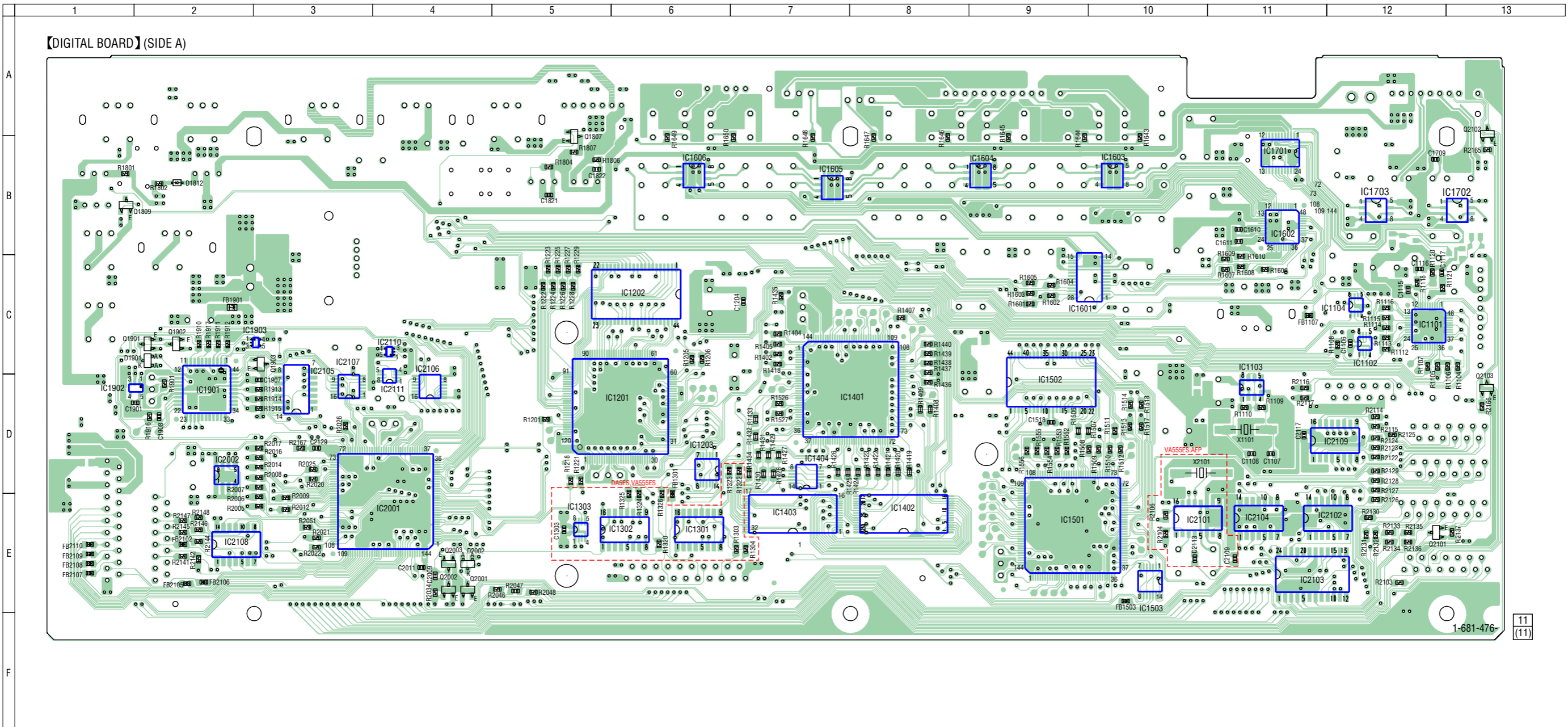


5-9. SCHEMATIC DIAGRAM — DIGITAL SECTION (7/7)—

- See page 13 for Waveforms.
- See page 50,51,52 for IC Block Diagram.



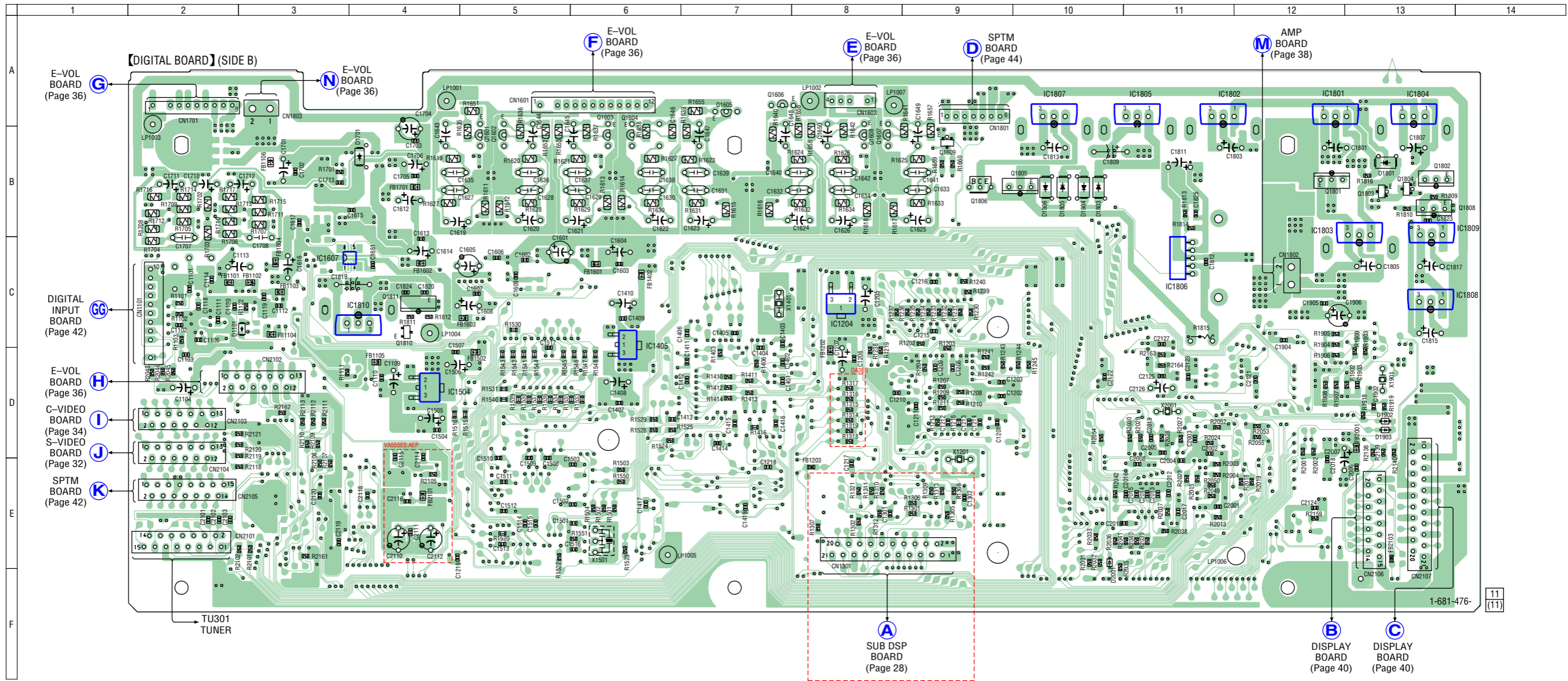
5-10.PRINTED WIRING BOARD — DIGITAL SECTION (SIDE A) —  
 • See page 12 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1812	B-2	IC1501	E-9	IC2102	E-11	Q2003	E-4
D1901	C-2	IC1502	D-9	IC2103	E-11	Q2101	E-12
D2002	E-4	IC1503	E-10	IC2104	E-11	Q2102	A-13
		IC1601	C-10	IC2105	D-3	Q2103	D-13
IC1101	C-12	IC1602	B-11	IC2106	D-4		
IC1102	C-12	IC1603	B-10	IC2107	D-3		
IC1103	D-11	IC1604	B-9	IC2108	E-2		
IC1104	C-12	IC1605	B-7	IC2109	D-12		
IC1201	D-6	IC1606	B-6	IC2110	C-4		
IC1202	C-6	IC1701	B-11	IC2111	D-4		
IC1203	D-6	IC1702	B-13				
IC1301	E-6	IC1703	B-12	Q1807	B-5		
IC1302	E-6	IC1901	D-2	Q1809	B-1		
IC1303	E-5	IC1902	D-2	Q1901	C-2		
IC1401	D-7	IC1903	C-3	Q1902	C-2		
IC1402	E-8	IC2001	E-4	Q1903	C-3		
IC1403	E-7	IC2002	D-2	Q2001	E-4		
IC1404	D-7	IC2101	E-10	Q2002	E-4		

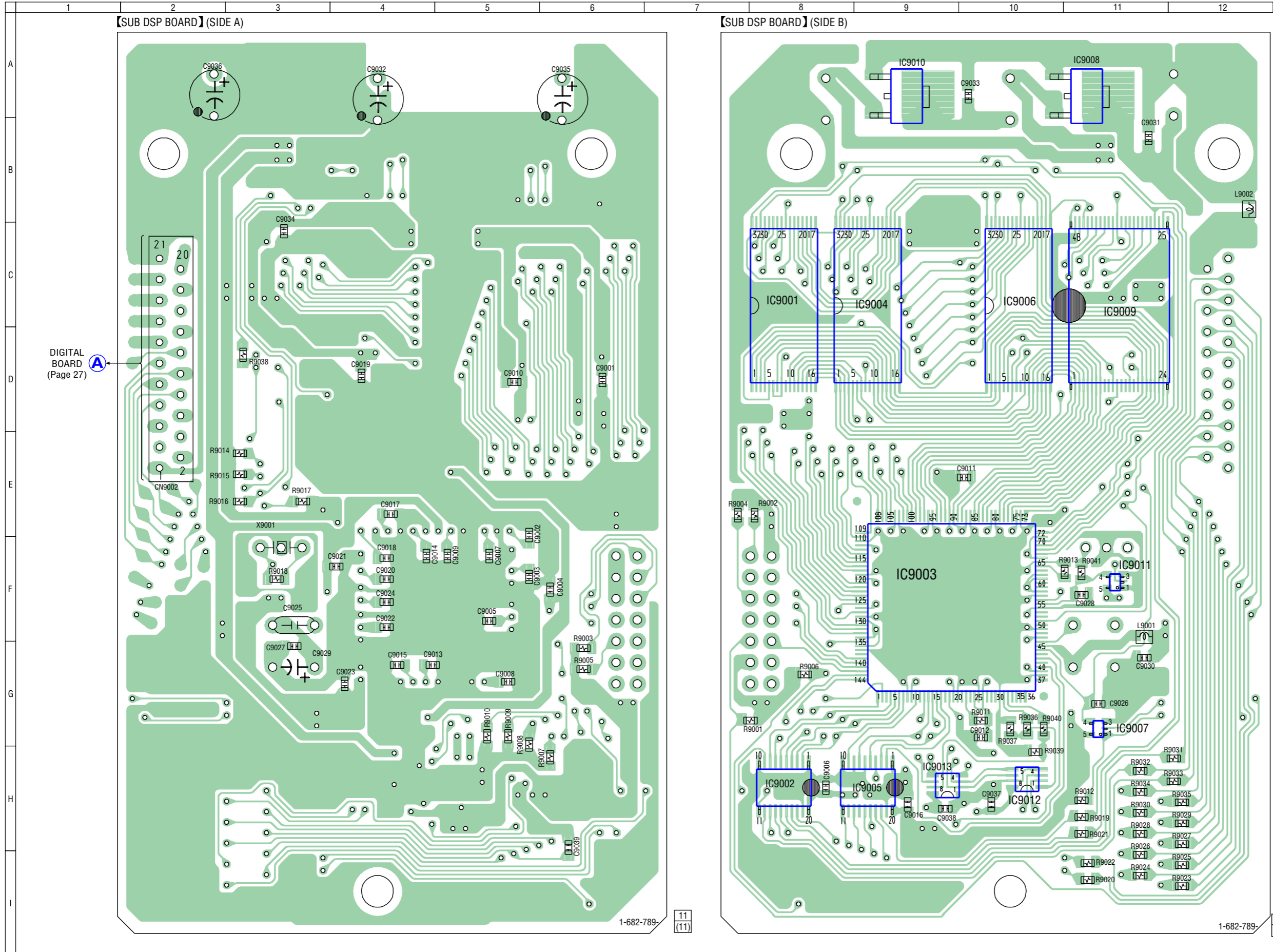
5-11.PRINTED WIRING BOARD — DIGITAL SECTION (SIDE B) —  
 • See page 12 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1101	C-2	IC1803	B-13	Q1609	B-9
D1701	B-4	IC1804	A-13	Q1801	B-12
D1801	B-13	IC1805	A-11	Q1802	B-13
D1803	B-10	IC1806	C-11	Q1803	B-13
D1804	B-10	IC1807	A-10	Q1804	B-13
D1805	B-10	IC1808	C-13	Q1805	B-10
D1806	B-10	IC1809	B-13	Q1806	B-9
D1902	D-13	IC1810	C-4	Q1808	B-13
D1903	D-13				
D2001	E-10	Q1601	B-5		
		Q1602	B-5		
IC1204	C-8	Q1603	B-6		
IC1405	C-6	Q1604	B-6		
IC1504	D-4	Q1605	A-7		
IC1607	C-3	Q1606	A-7		
IC1801	A-12	Q1607	B-8		
IC1802	A-11	Q1608	B-8		

5-12.PRINTED WIRING BOARD — SUB DSP SECTION (DA5ES, VA555ES) —  
 • See page 12 for Circuit Boards Location.

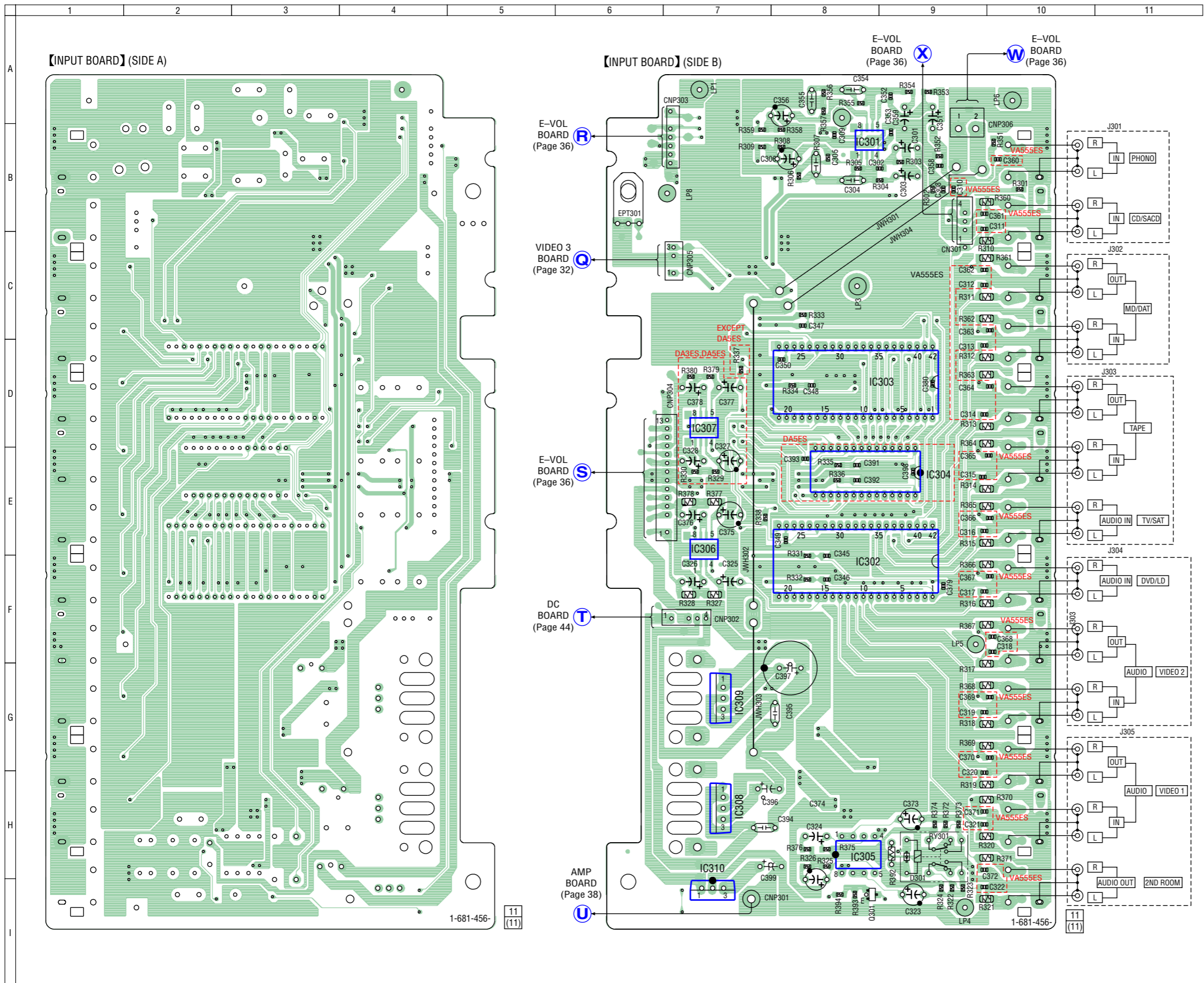


• Semiconductor Location

Ref. No.	Location
IC9001	C-8
IC9002	H-8
IC9003	F-9
IC9004	C-9
IC9005	H-9
IC9006	C-10
IC9007	G-11
IC9008	A-11
IC9009	C-11
IC9010	A-9
IC9011	F-11
IC9012	H-9
IC9013	H-10



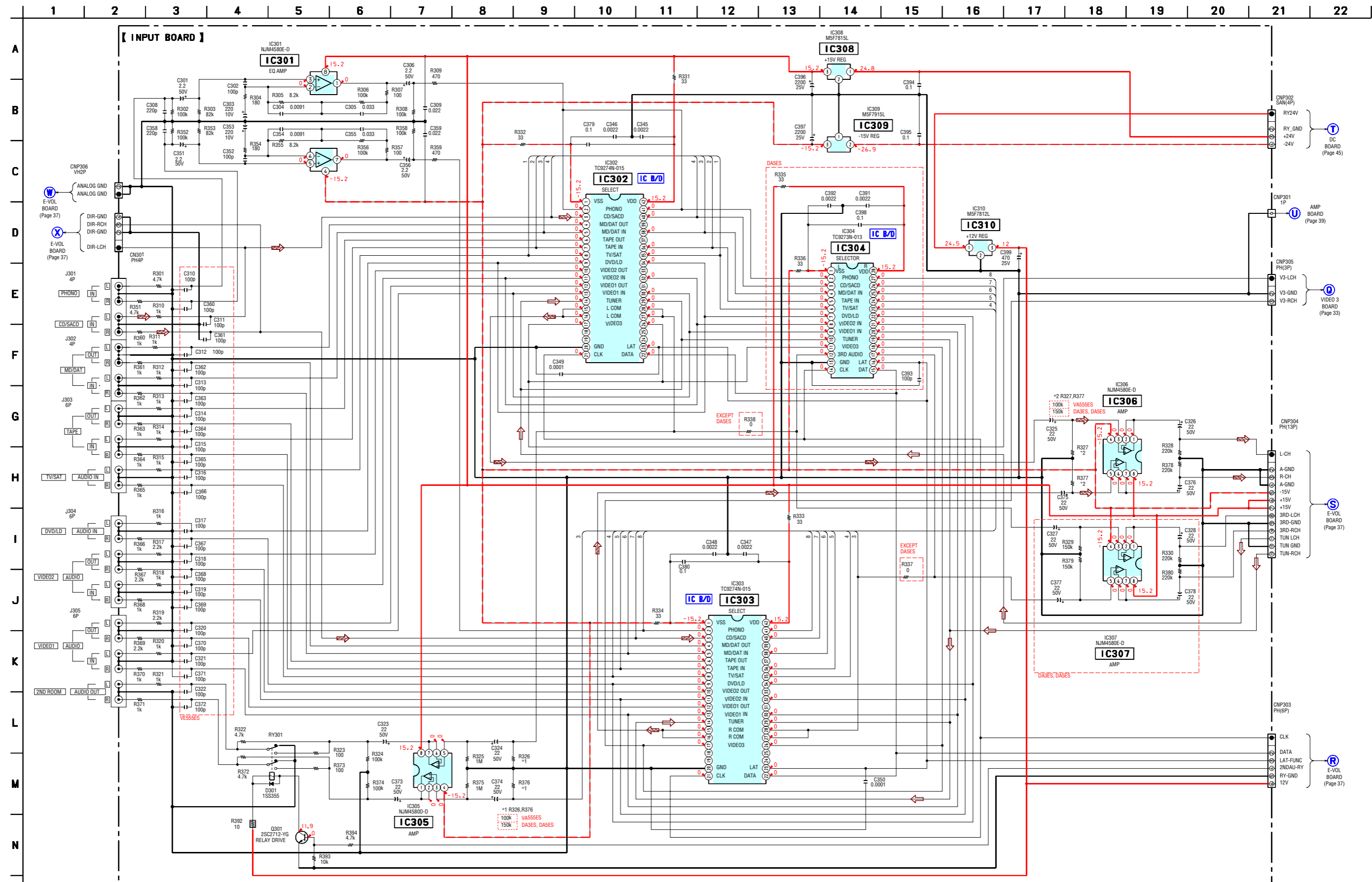
5-14.PRINTED WIRING BOARD — INPUT SECTION —  
 • See page 12 for Circuit Boards Location.



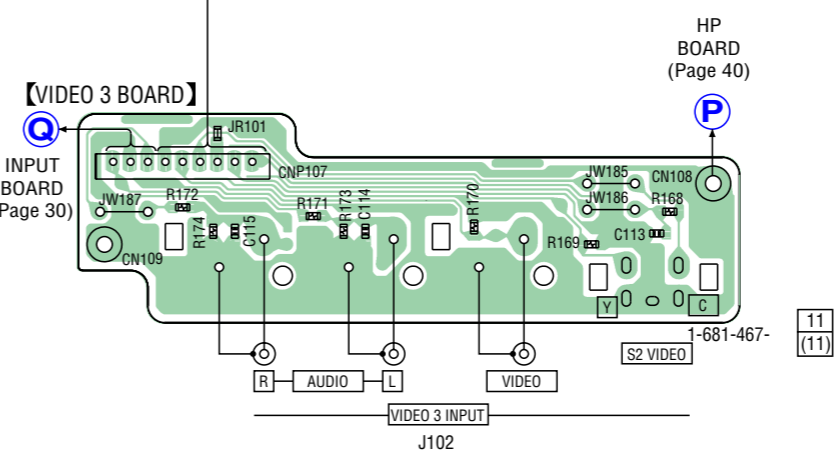
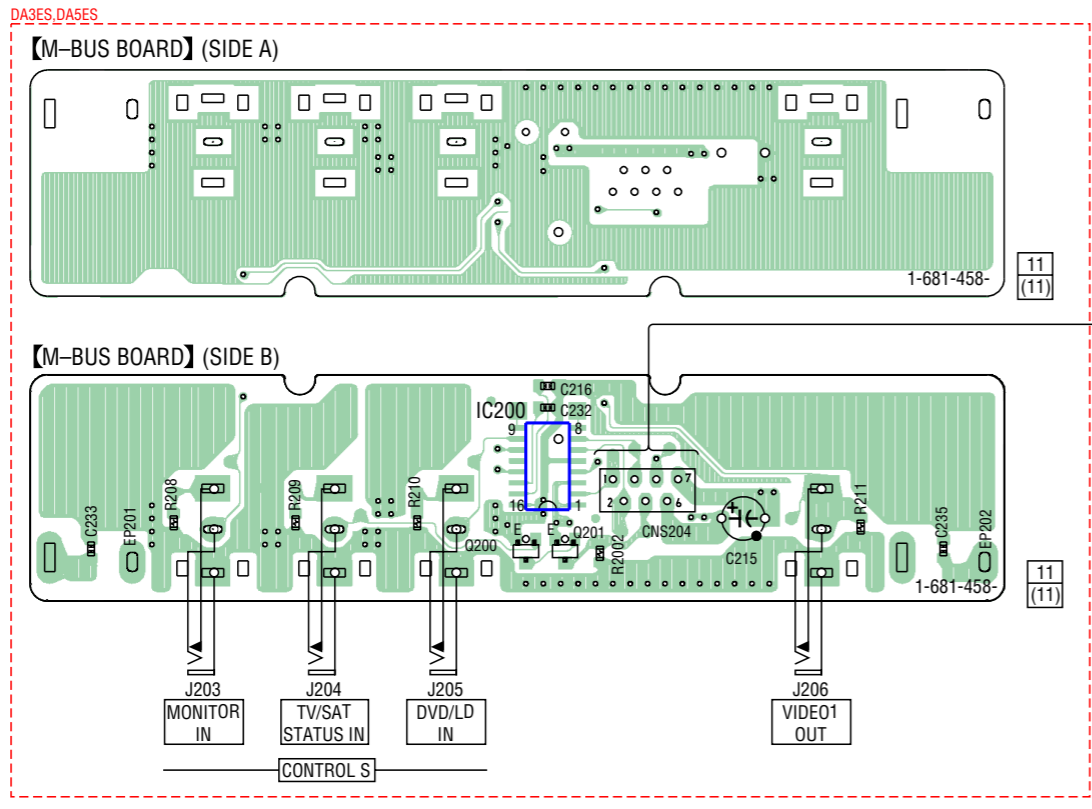
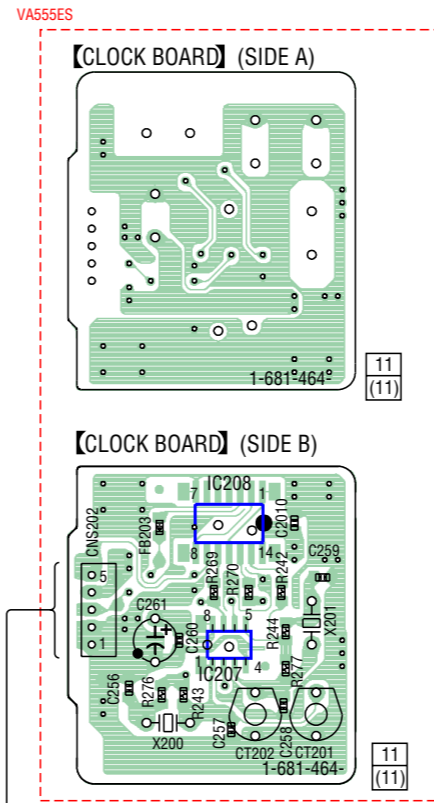
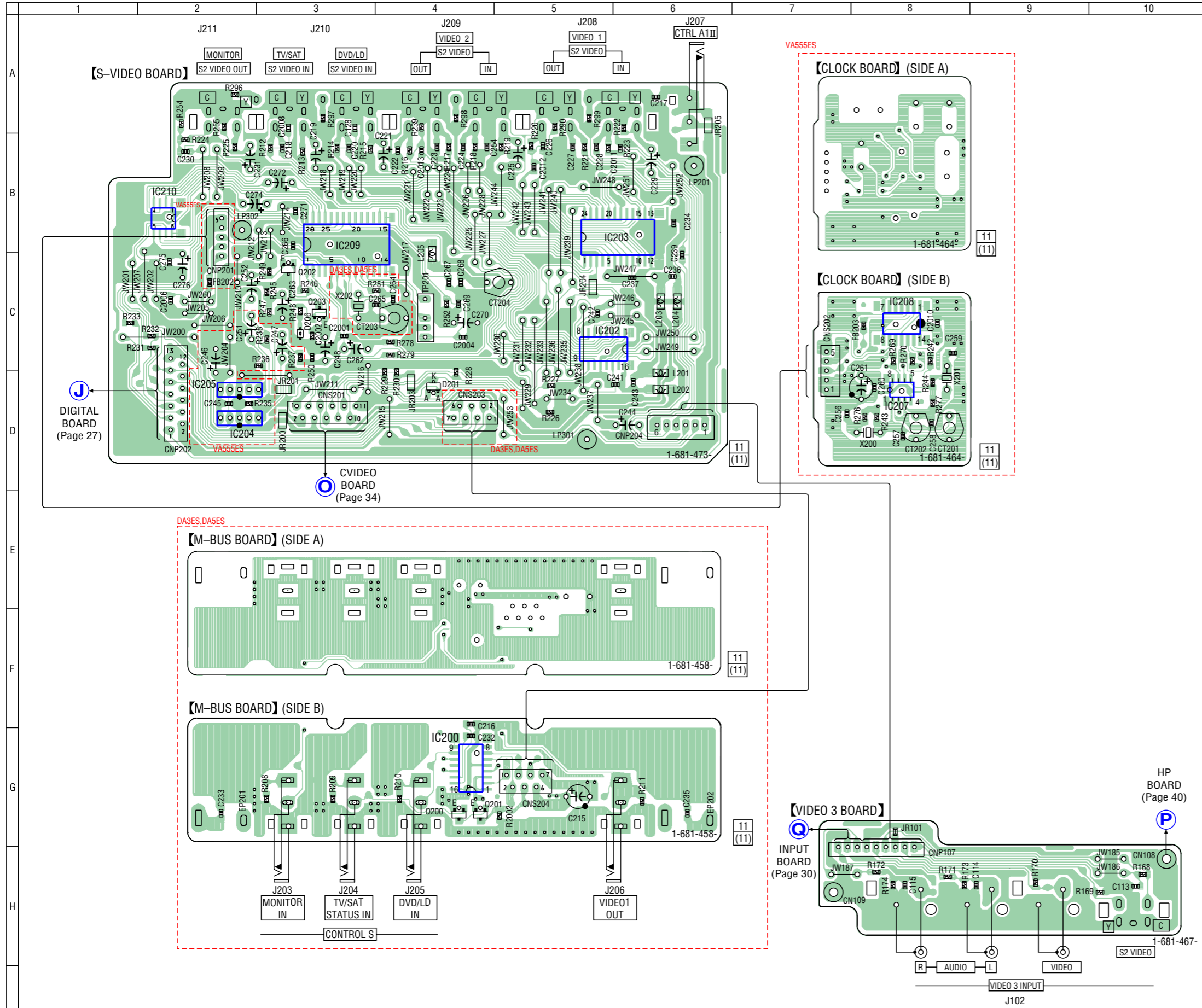
• Semiconductor Location

Ref. No.	Location
D301	H-9
IC301	B-8
IC302	F-8
IC303	D-8
IC304	E-8
IC305	H-8
IC306	E-7
IC307	D-7
IC308	H-7
IC309	G-7
IC310	I-7
Q301	I-8

5-15. SCHEMATIC DIAGRAM — INPUT SECTION — • See page 53 for IC Block Diagram.



5-16.PRINTED WIRING BOARD — S-VIDEO SECTION —  
 • See page 12 for Circuit Boards Location.



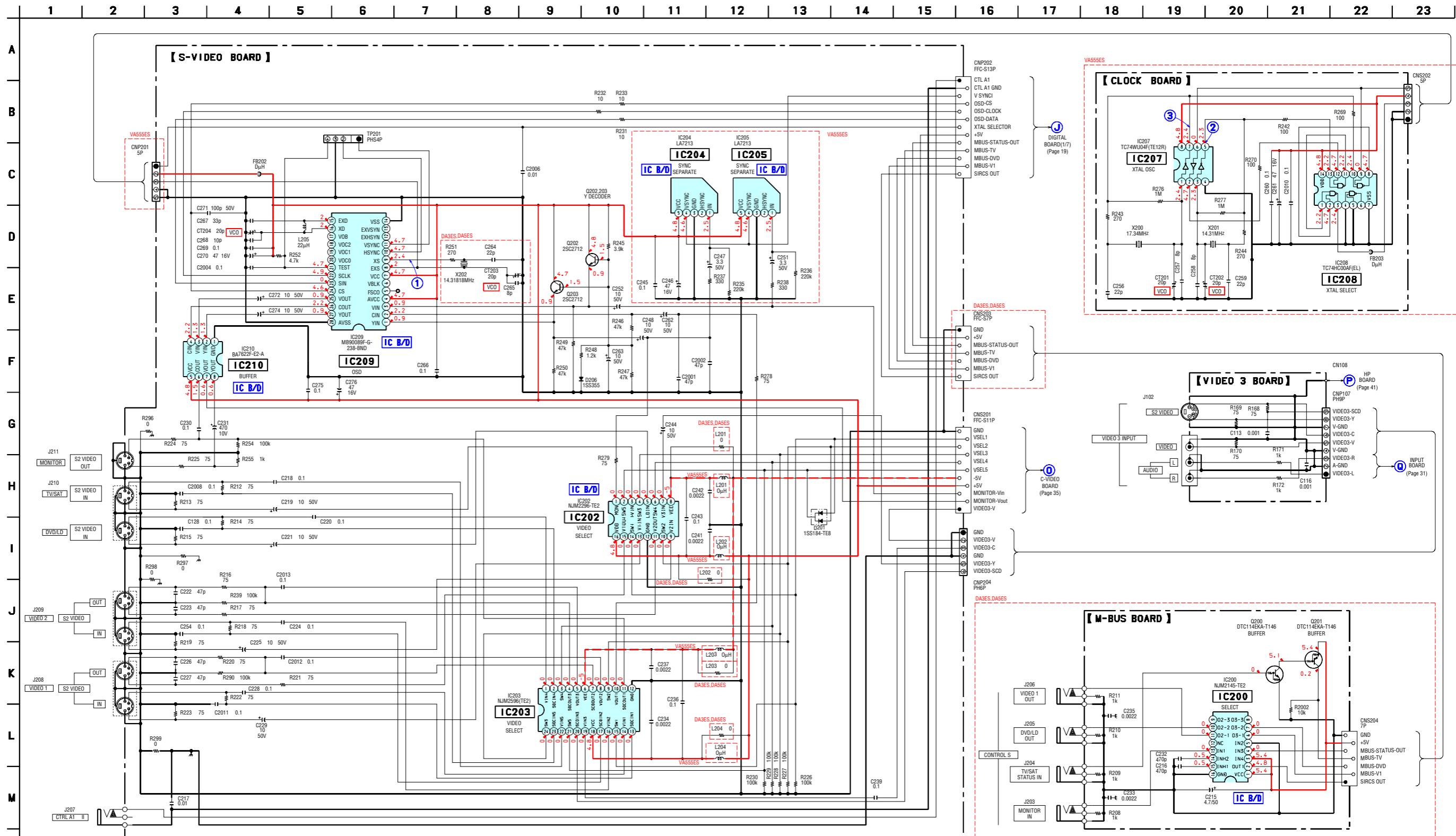
• Semiconductor Location

Ref. No.	Location
D201	D-4
D206	C-3
IC200	G-4
IC202	C-5
IC203	B-5
IC204	D-2
IC205	D-2
IC207	D-8
IC208	C-8
IC209	B-3
IC210	B-2
Q200	G-4
Q201	G-4
Q202	C-3
Q203	C-3

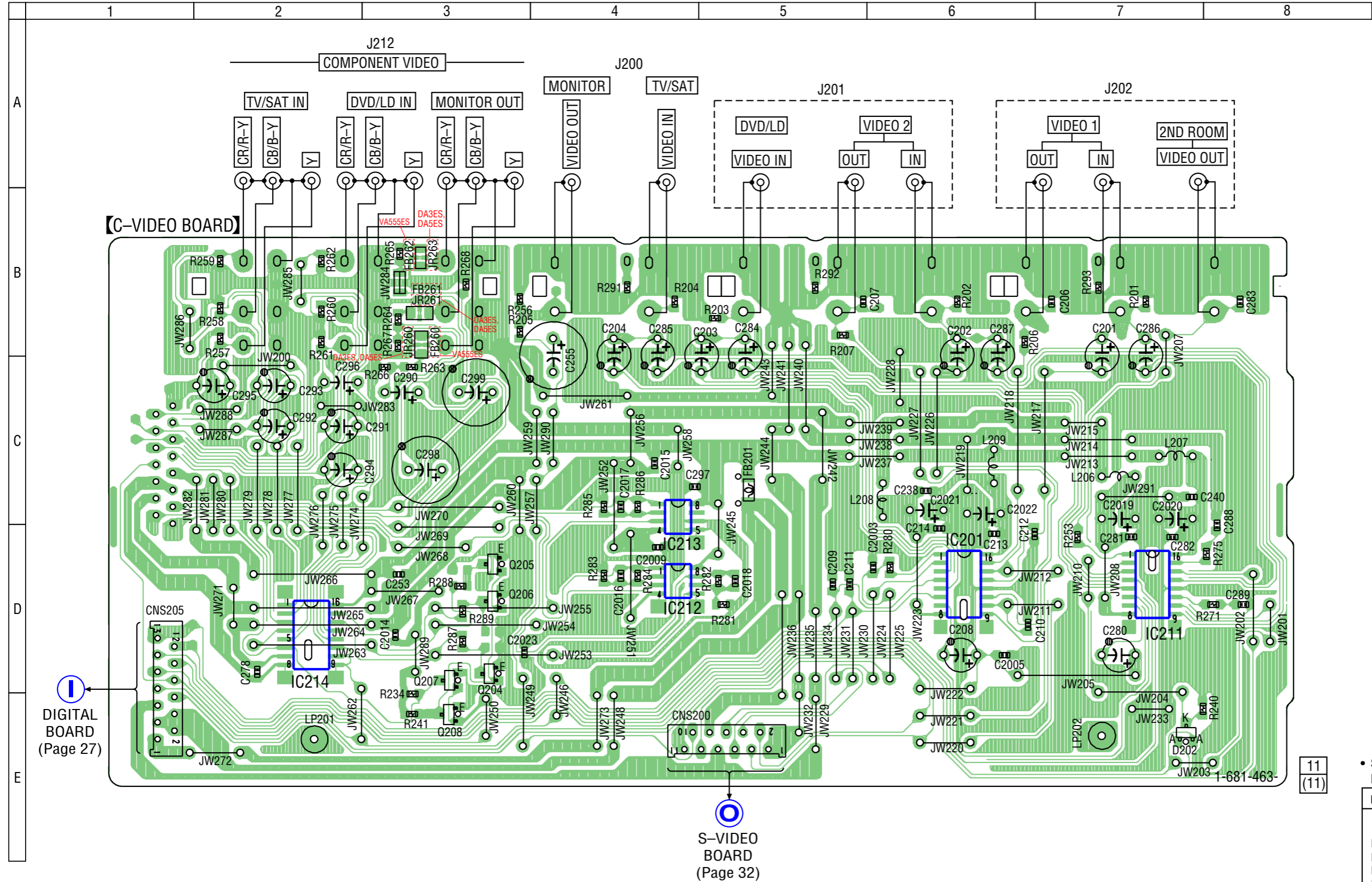


5-17. SCHEMATIC DIAGRAM — S-VIDEO SECTION —

- See page 13 for Waveforms.
- See page 50,51,52 for IC Block Diagram.



5-18.PRINTED WIRING BOARD — C-VIDEO SECTION —  
 • See page 12 for Circuit Boards Location.

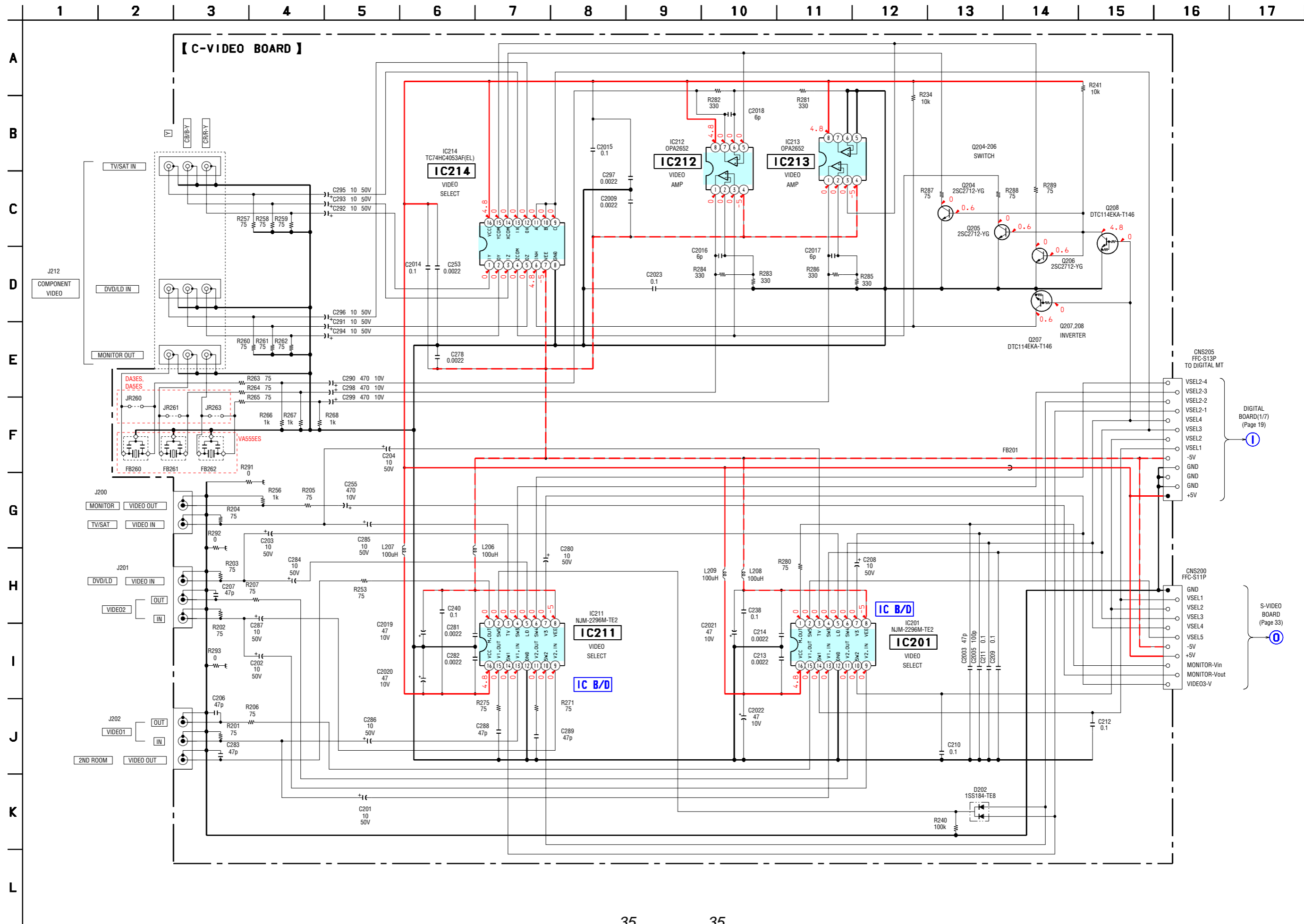


11  
(11)

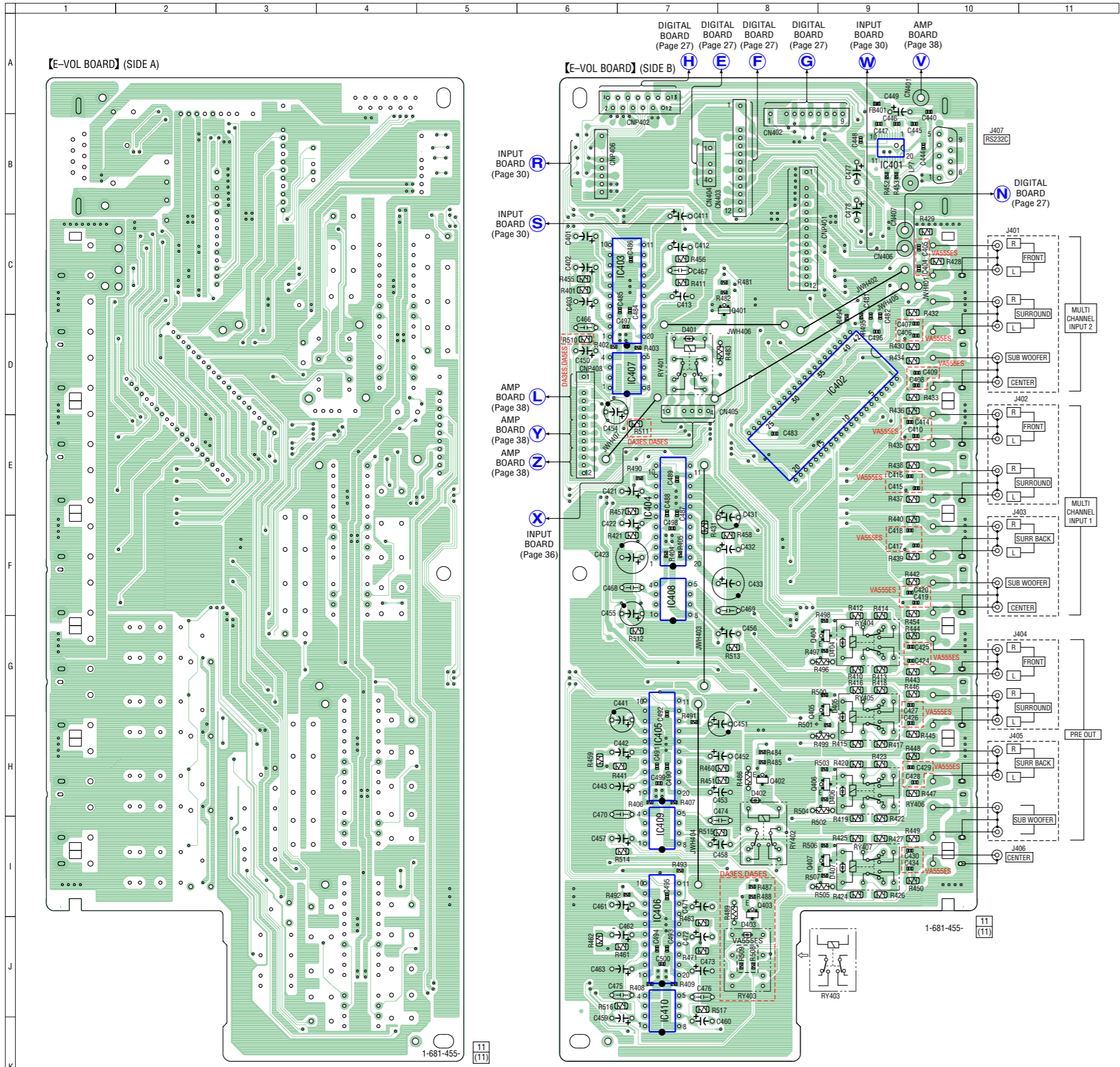
• Semiconductor Location

Ref. No.	Location
D202	E-7
IC201	D-6
IC211	D-7
IC212	D-4
IC213	C-4
IC214	D-2
Q204	D-3
Q205	D-3
Q206	D-3
Q207	D-3
Q208	E-3

5-19. SCHEMATIC DIAGRAM — C-VIDEO SECTION — • See page 50 for IC Block Diagram.



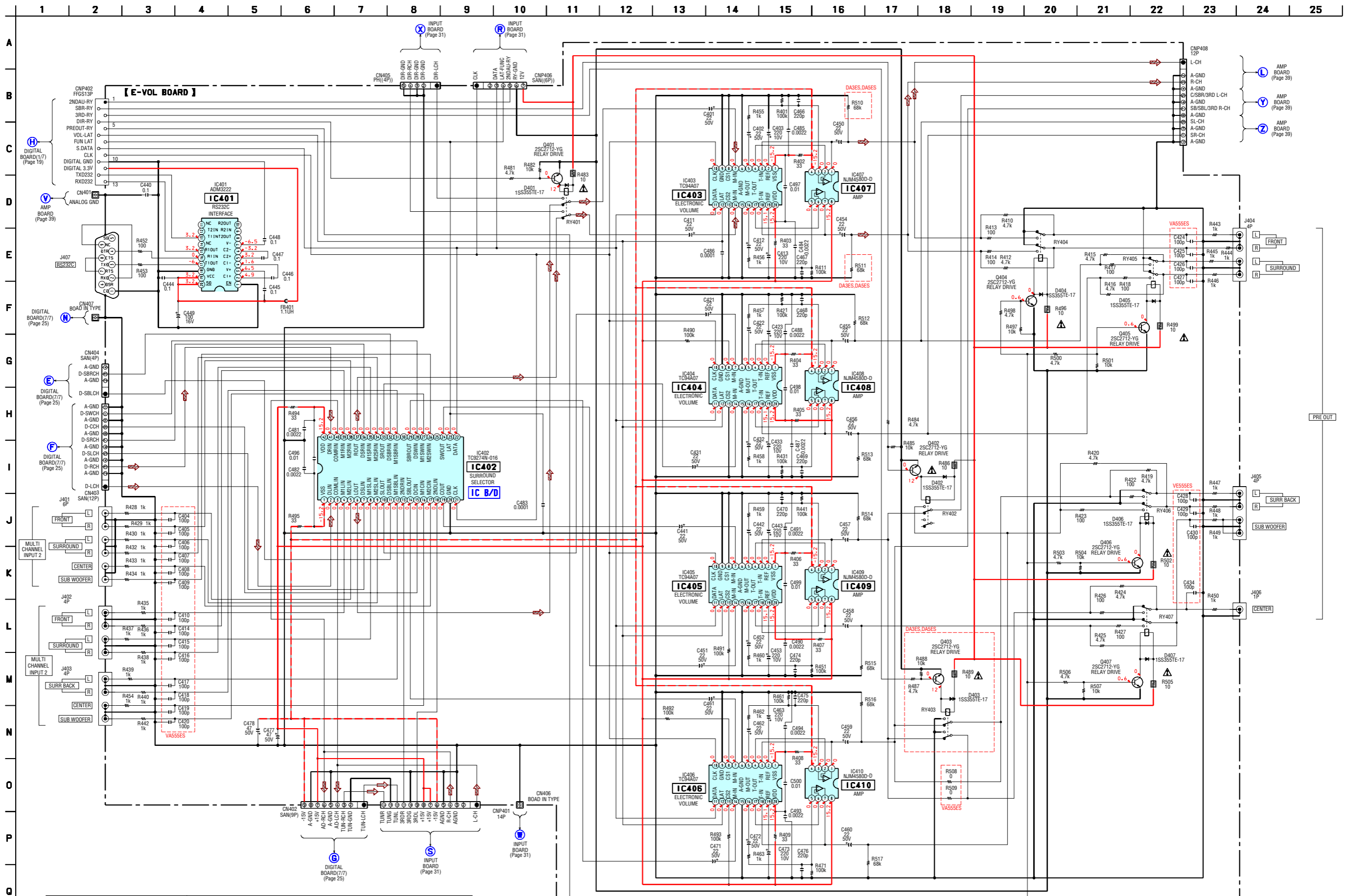
5-20.PRINTED WIRING BOARD — E-VOL SECTION —  
 • See page 12 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D401	D-7
D402	H-8
D403	J-8
D404	G-9
D405	G-9
D406	H-9
D407	I-9
IC401	B-9
IC402	D-9
IC403	C-7
IC404	E-7
IC405	H-7
IC406	J-7
IC407	D-7
IC408	F-8
IC409	I-7
IC410	J-7
Q401	C-8
Q402	H-8
Q403	I-8
Q404	G-9
Q405	G-9
Q406	H-9
Q407	I-9

5-21. SCHEMATIC DIAGRAM — E-VOL SECTION — • See page 53 for IC Block Diagram.

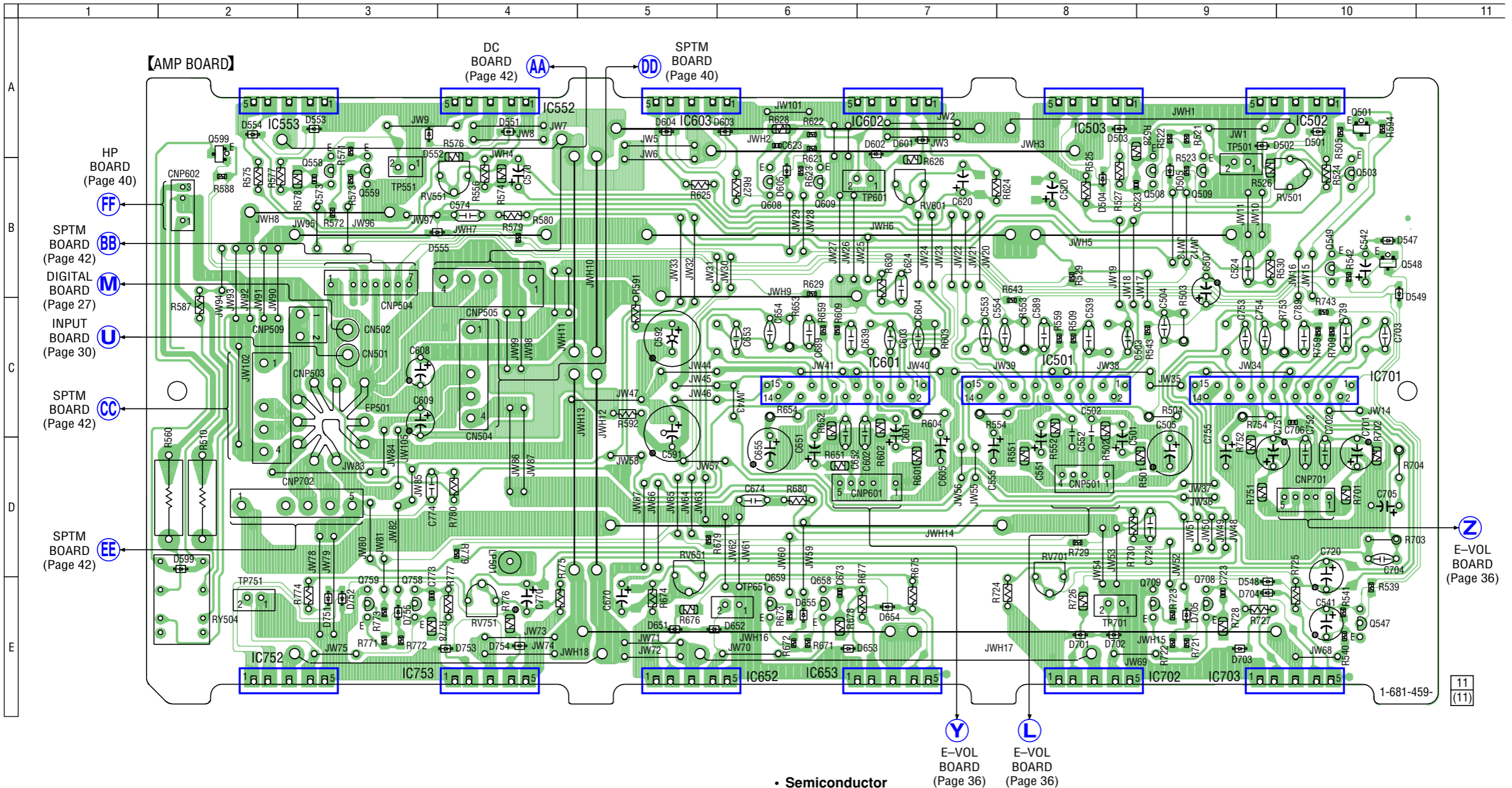


**Note:**  
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

**Note:**  
Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

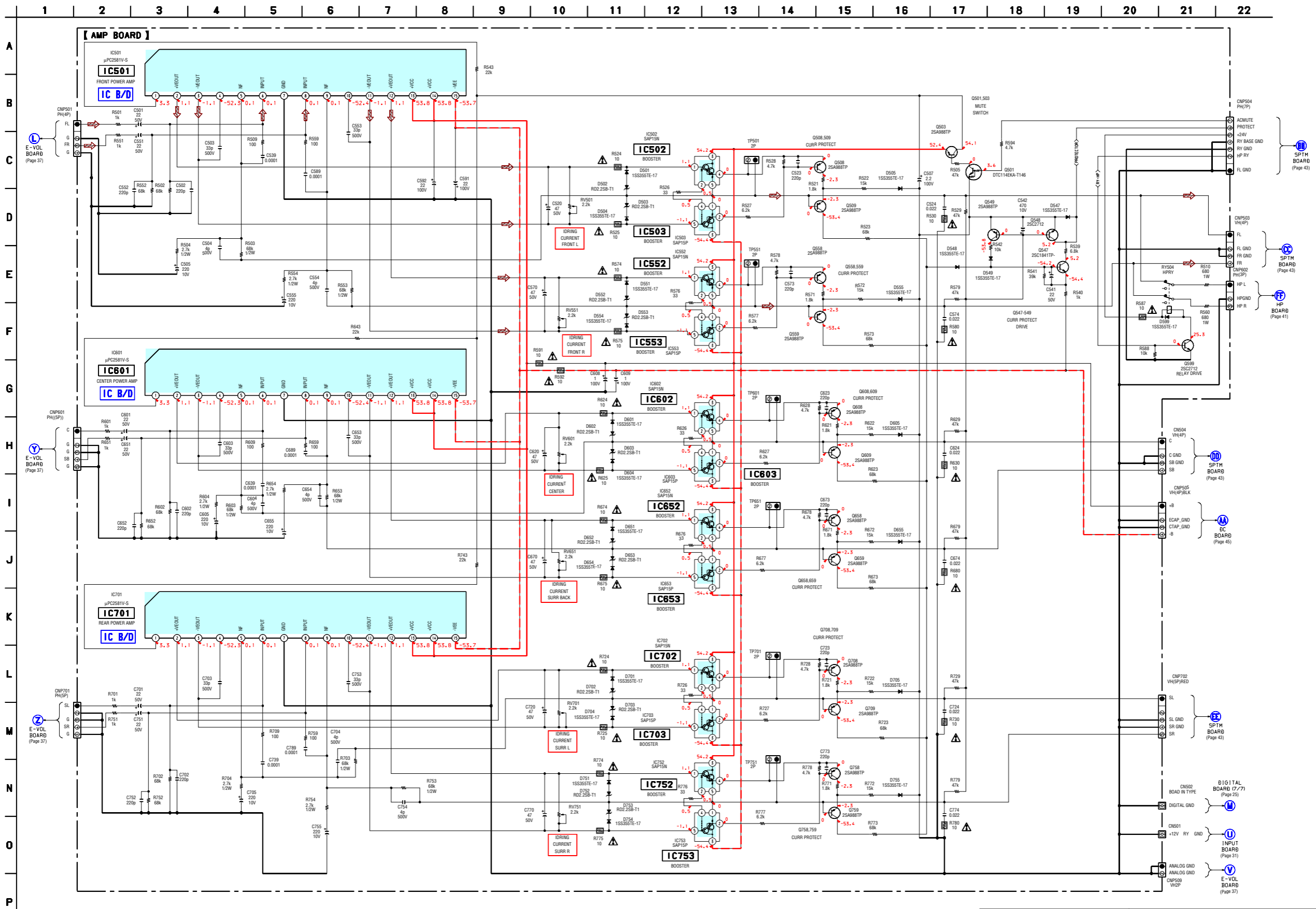
5-22.PRINTED WIRING BOARD — AMP SECTION —  
 • See page 12 for Circuit Boards Location.



• Semiconductor Location

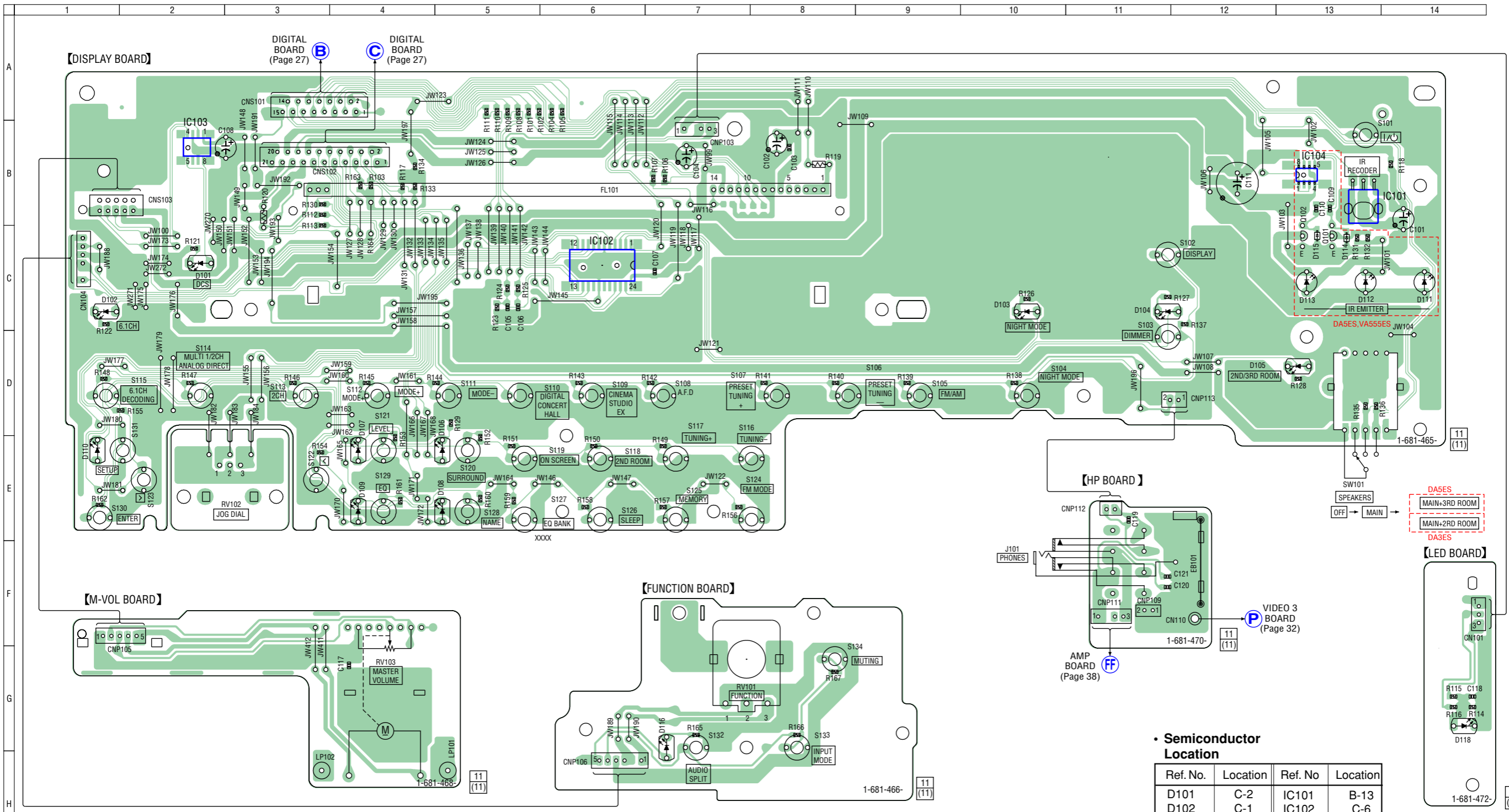
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	A-10	D602	A-7	D752	E-3	IC701	C-10	Q599	A-2
D502	A-9	D603	A-6	D753	E-4	IC702	E-8	Q608	B-6
D503	A-8	D604	A-5	D754	E-4	IC703	E-10	Q609	B-6
D504	B-8	D605	B-6	D755	E-3	IC752	E-2	Q658	E-6
D505	B-9	D651	E-5	IC501	C-8	IC753	E-4	Q659	E-6
D547	B-10	D652	E-5	IC502	A-10	Q501	A-10	Q708	E-9
D548	E-9	D653	E-6	IC503	A-8	Q503	B-10	Q709	E-9
D549	B-10	D654	E-7	IC552	A-4	Q508	B-9	Q758	E-3
D551	A-4	D655	E-6	IC553	A-2	Q509	B-9	Q759	E-3
D552	A-3	D701	E-8	IC601	C-6	Q547	E-10		
D553	A-3	D702	E-8	IC602	A-7	Q548	B-10		
D554	A-2	D703	E-9	IC603	A-5	Q549	B-10		
D555	B-3	D704	E-9	IC652	E-5	Q558	B-3		
D599	E-2	D705	E-9	IC653	E-7	Q559	B-3		
D601	A-7	D751	E-3						

5-23. SCHEMATIC DIAGRAM — AMP SECTION — • See page 53 for IC Block Diagram.



<p><b>Note:</b> The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.</p>	<p><b>Note:</b> Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>	<p>以阴影和 ▲标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。</p>
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5-24.PRINTED WIRING BOARD — DISPLAY SECTION —  
 • See page 12 for Circuit Boards Location.

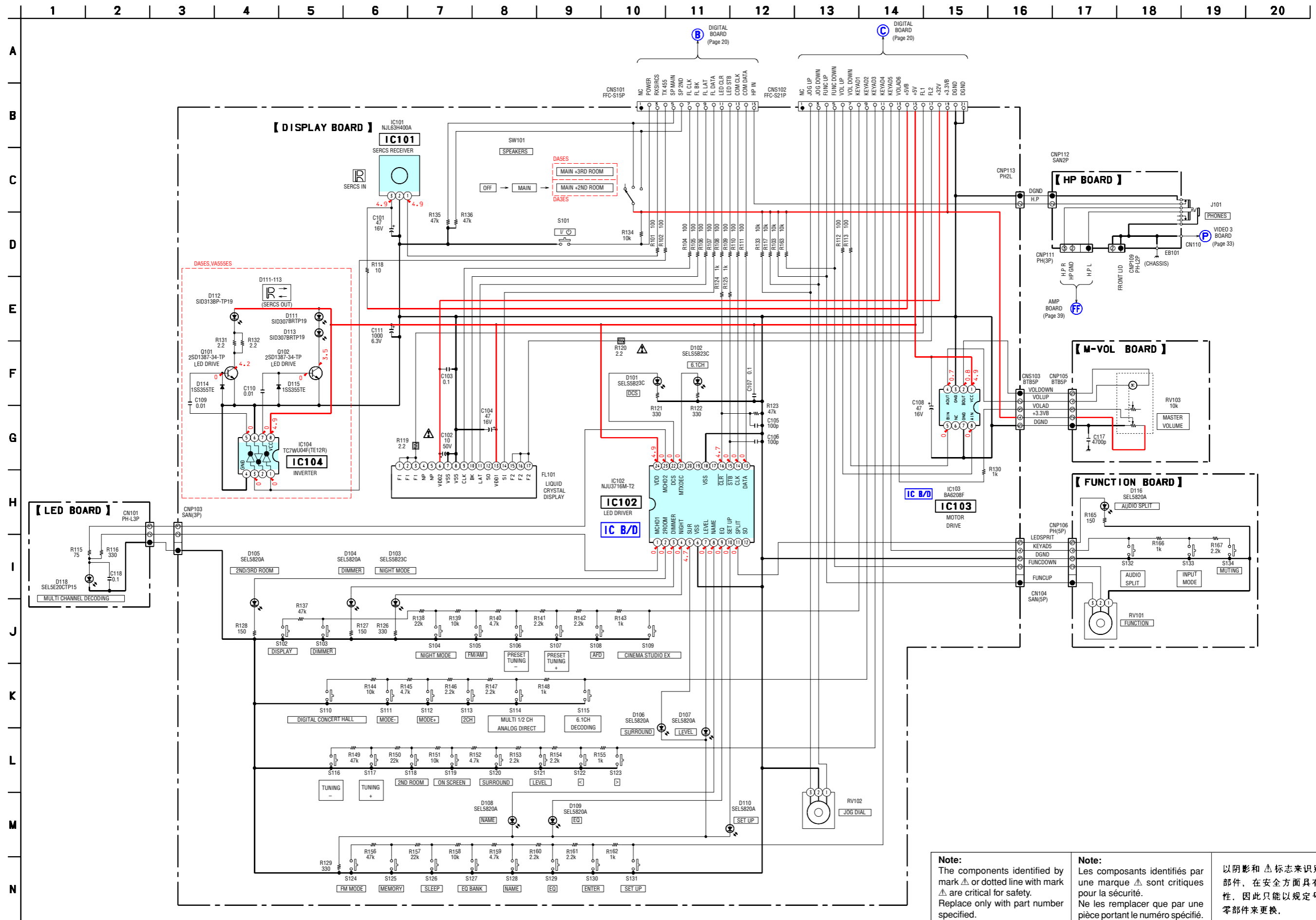


• Semiconductor Location

Ref. No.	Location	Ref. No	Location
D101	C-2	IC101	B-13
D102	C-1	IC102	C-6
D103	C-10	IC103	B-2
D104	C-11	IC104	B-13
D105	D-13		
D106	E-5	Q101	C-13
D107	E-4	Q102	C-13
D108	E-5		
D109	E-4		
D110	E-1		
D111	C-14		
D112	C-13		
D113	C-13		
D114	C-13		
D115	C-13		
D116	G-7		
D118	G-14		

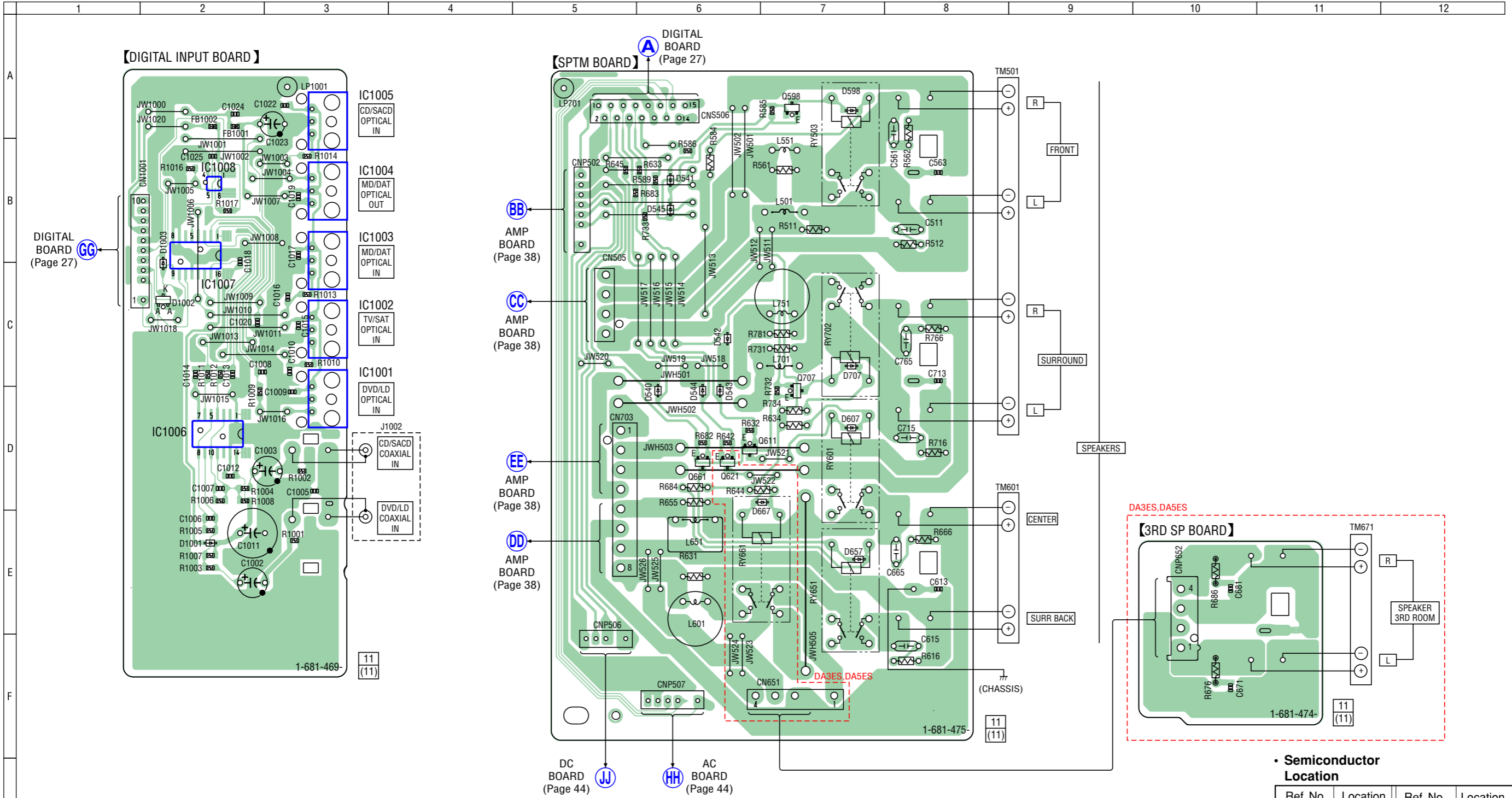


5-25. SCHEMATIC DIAGRAM — DISPLAY SECTION — • See page 52 for IC Block Diagram.



<p><b>Note:</b> The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.</p>	<p><b>Note:</b> Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>	<p>以阴影和 ▲ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。</p>
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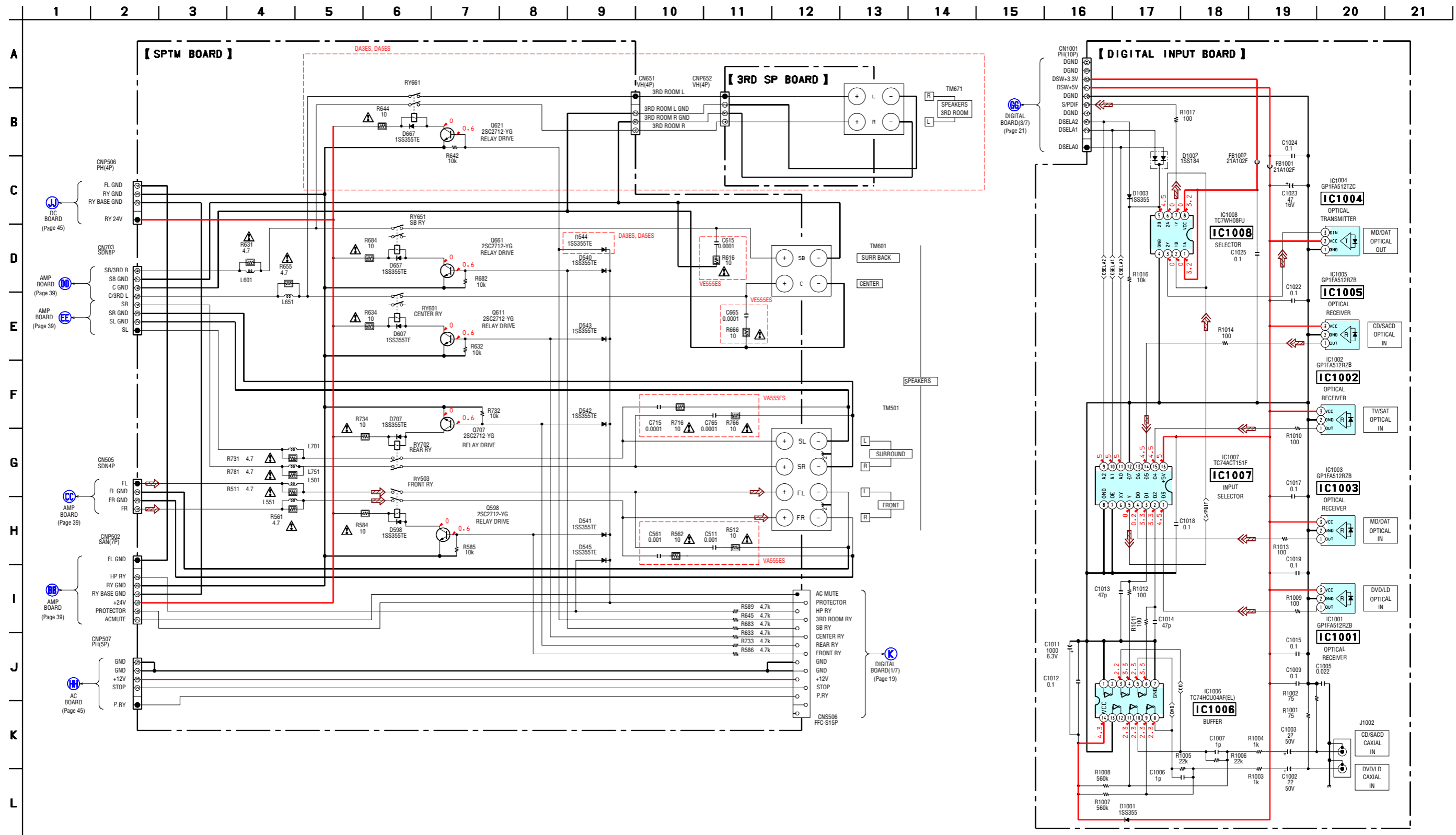
5-26.PRINTED WIRING BOARD — DIGITAL INPUT SECTION —  
 • See page 12 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D540	D-6	IC1001	D-3
D541	B-6	IC1002	C-3
D542	C-6	IC1003	B-3
D543	D-6	IC1004	B-3
D544	D-6	IC1005	A-3
D545	B-6	IC1006	D-2
D598	A-7	IC1007	B-2
D607	D-7	IC1008	B-2
D657	E-7		
D667	D-6	Q598	A-7
D707	C-7	Q611	D-6
D1001	E-2	Q621	D-6
D1002	C-2	Q661	D-6
D1003	B-2	Q707	D-7

5-27. SCHEMATIC DIAGRAM — DIGITAL INPUT SECTION — • See page 51 for IC Block Diagram.

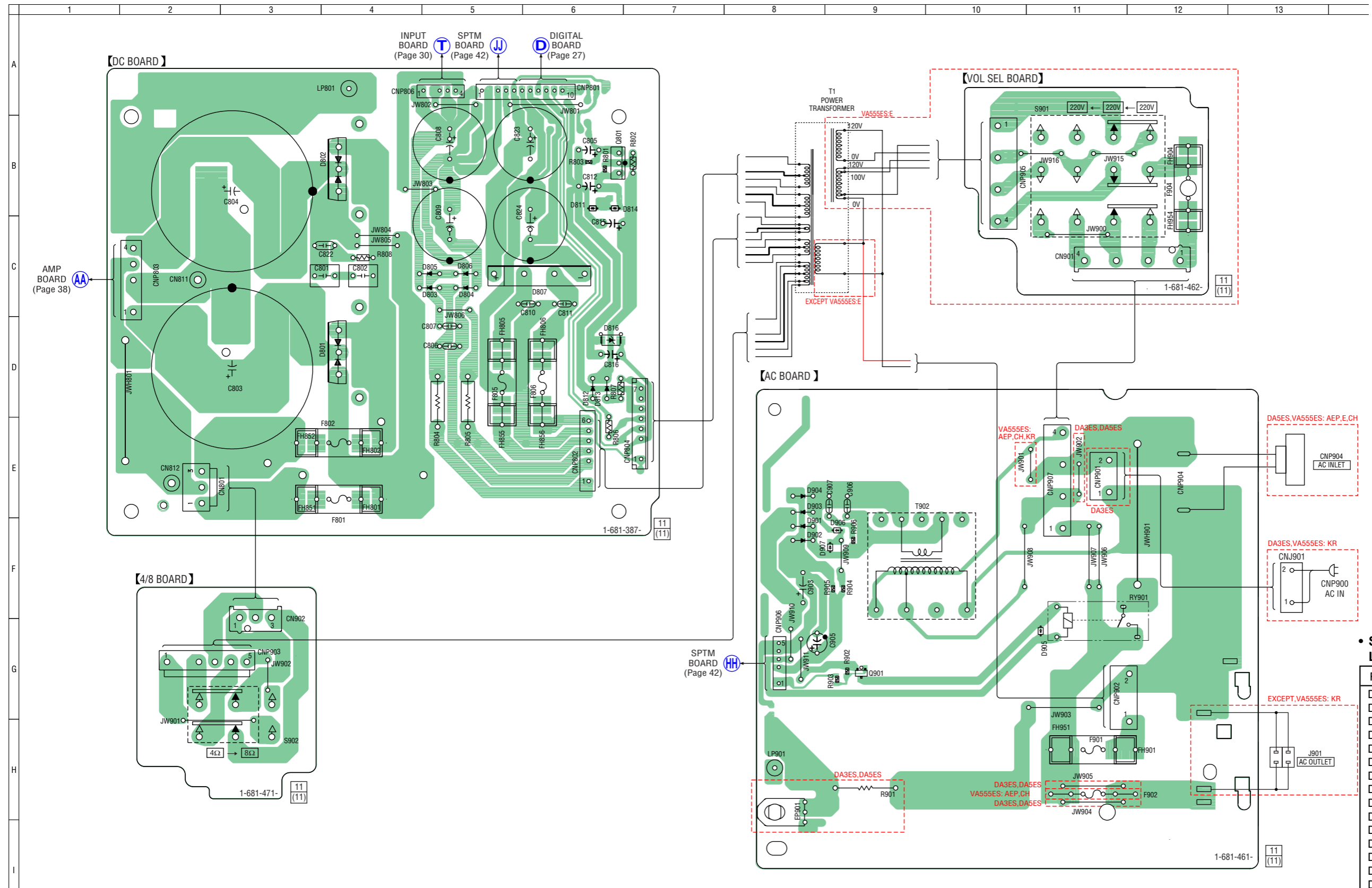


**Note:**  
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

**Note:**  
Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

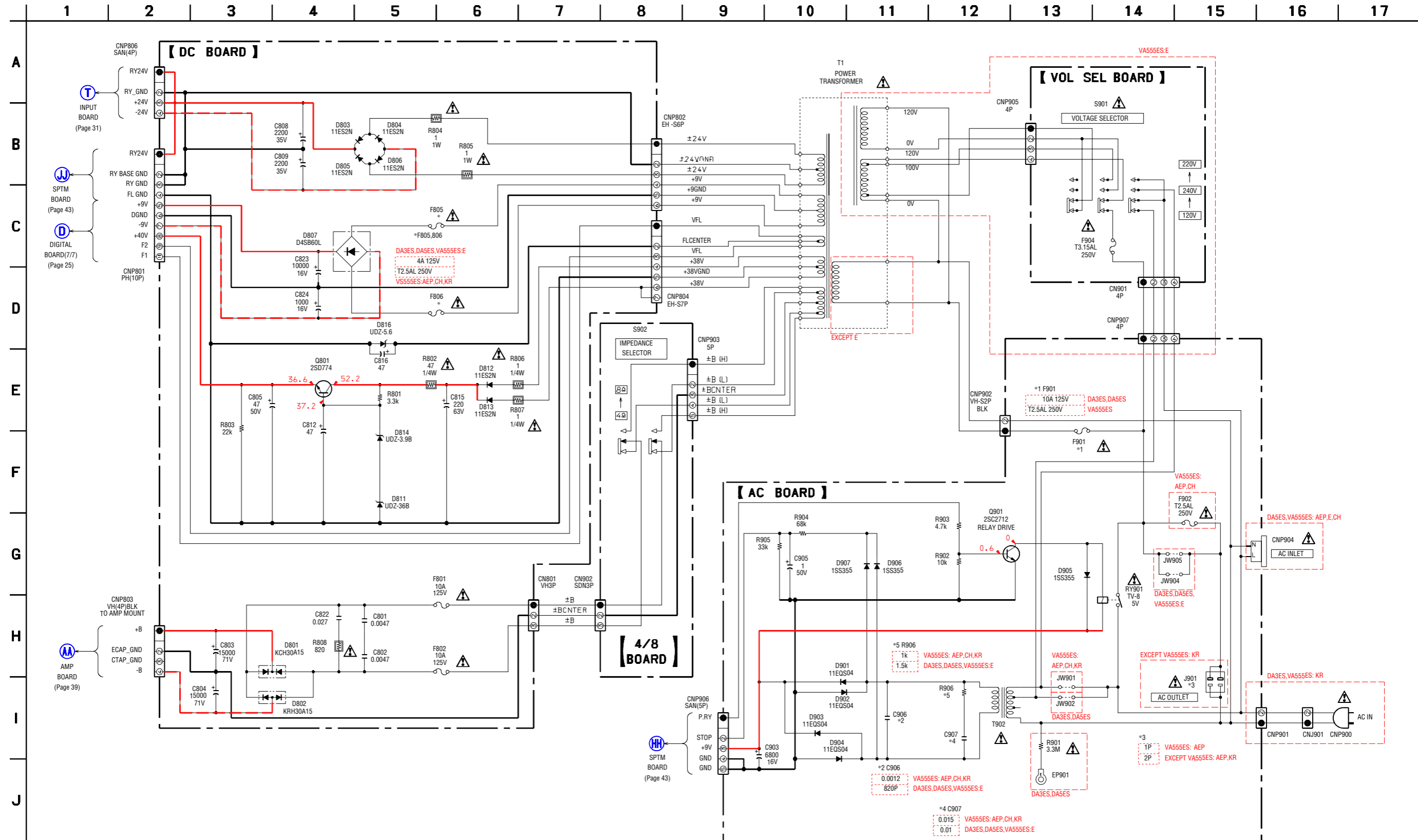
5-28.PRINTED WIRING BOARD — POWER SECTION —  
 • See page 12 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D801	D-4
D802	B-4
D803	C-5
D804	C-5
D805	C-5
D806	C-5
D807	C-6
D811	B-6
D812	D-6
D813	D-6
D814	B-6
D816	D-6
D901	F-8
D902	F-8
D903	E-8
D904	E-8
D905	G-11
D906	F-9
D907	F-9
Q801	B-6
Q901	G-9

5-29. SCHEMATIC DIAGRAM — POWER SECTION —



<p><b>Note:</b> The components identified by mark <math>\triangle</math> or dotted line with mark <math>\triangle</math> are critical for safety. Replace only with part number specified.</p>	<p><b>Note:</b> Les composants identifiés par une marque <math>\triangle</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>	<p>以阴影和 <math>\triangle</math> 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。</p>
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## 5-30. IC PIN FUNCTION DISCRIPTION

• IC1201 CXD9617R AUDIO DSP (DIGITAL BOARD(4/7))

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground
2	XRST	I	Reset signal input
3	EXTIN	I	Not used (connected to ground)
4	FS2	I	Not used (connected to ground)
5	VDDI	—	Power supply +3.3V
6	FS1	I	Not used (connected to ground)
7	PLOCK	I	Not used
8	VSS	—	Ground
9	MCLKI	I	External crystal terminal (13.5MHz)
10	VDDI	—	Power supply +3.3V
11	VSS	—	Ground
12	MCLK2	O	External crystal terminal (13.5MHz)
13	MS	I	Not used (connected to ground)
14	SCKOUT	O	Not used (open)
15	LRCKI1	I	LRCK clock input
16	VDDE	—	Power supply +3.3V
17	BCKI1	I	BCK clock input
18	SDI1	I	Sound data input
19	LRCKO	O	LRCK clock output
20	BCKO	O	BCK clock output
21	VSS	—	Ground
22	KFSIO	I	KFSIO signal input
23	SDO1	O	Sound data output
24	SDO2	O	Sound data output
25	SDO3	O	Sound data output
26	SDO4	O	Sound data output
27	SPDIF	I	Not used (open)
28	LRCKI2	I	LRCK clock input
29	BCKI2	I	BCK clock input
30	SDI2	I	Sound data input
31	VSS	—	Ground
32	HACN	O	HACN signal output to MB91F155-IESO
33	HDIN	I	HD signal input from MB91F155-IESO
34	HCLK	I	H clock input from MB91F155-IESO
35	HDOU	O	HD data output to MB91F155-IESO
36	HCS	I	HCS signal input from MB91F155-IESO
37	DSCLK	O	Not used (open)
38	CLKEN	O	Not used (open)
39	RAS	O	Not used (open)
40	VDDI	—	Power supply +3.3V
41	VSS	—	Ground
42	CAS	O	Not used (open)
43	DQM/OE0	O	Not used (open)
44	CS0	—	Ground
45	WE0	O	Write signal output to memory
46	VDDE	—	Power supply +3.3V
47	WMD1	I	Not used (connected to VDDE)
48	VSS	—	Ground
49	WMD0	I	Not used (connected to VDDE)
50	PAGE2	O	Control latch signal output to UART
51	VSS	—	Ground

Pin No.	Pin Name	I/O	Description
52	PAGE1	O	Not used (open)
53	PAGE0	O	Not used (open)
54	BOOT	I	Not used (connected to ground)
55	BTACT	O	Not used (open)
56	BST	—	Power supply +3.3V
57	MODE1	I	Not used (connected to VDDE)
58	MODE0	I	Not used (connected to ground)
59	EXLOCK	I	DIR error input from LC89056W
60	VDDI	—	Power supply +3.3V
61	VSS	—	Ground
62,63	A17,A16	O	Not used (open)
64 to 66	A15-13	O	Address data output to RAM
67	GP10	O	BCK clock output to SSM
68	GP9	O	GP signal output to MB91F155-IESO
69	GP8	O	Audio signal output to LC89056W
70	VDDI	—	Power supply +3.3V
71	VSS	—	Ground
72	D15/GP7	I/O	Data input/output to RAM
73	D14/GP6	I/O	Data input/output to RAM
74	D13/GP5	I/O	Data input/output to RAM
75	D13/GP4	I/O	Data input/output to RAM
76	VDDE	—	Power supply +3.3V
77	D11/GP3	I/O	Data input/output to RAM
78	D10/GP2	I/O	Data input/output to RAM
79	D9/GP1	I/O	Data input/output to RAM
80	D8/GP0	I/O	Data input/output to RAM
81	VSS	—	Ground
82 to 85	A9-12	O	Address data output to RAM
86	TD0	I	Not used (connected to VDDE)
87	TMS	I	Not used (connected to VDDE)
88	XTRST	I	Not used (connected to VDDE)
89	TCK	I	Not used (connected to VDDE)
90	TDI	I	Not used (connected to VDDE)
91	VSS	—	Ground
92 to 97	A8-3	O	Address data output to RAM
98,89	D7,D6	I/O	Data input/output to RAM
100	VDDI	—	Power supply +3.3V
101	VSS	—	Ground
102 to 105	D5-2	I/O	Data input/output to RAM
106	VDDE	—	Power supply +3.3V
107,108	D1,D0	I/O	Data input/output to RAM
109,110	A2,A1	O	Address data output to RAM
111	VSS	—	Ground
112	A0	O	Address data output to RAM
113	PM	I	PM signal input from MB91F155-IESO
114	SDI3	I	Sound data input
115	SDI4	I	Sound data input
116	SYNC	I	Not used (connected to VDDE)
117	VSS	—	Ground
118	VSS	—	Ground
119	VSS	—	Ground
120	VDDI	—	Power supply +3.3V

## • IC2001 MB91F155-1ES-X100 SYSTEM CONTROL (DIGITAL BOARD (2/7))

Pin No.	Pin Name	I/O	Description
1	ACCSEL	O	SSM select signal output
2	XMODE	O	Mode signal output to LC89056W
3	CKSEL	O	Clock select signal output to LC89056W
4	DIR-CLK	O	Clock signal output to LC89056W
5	DIR-CE	O	Chip enable signal output to LC89056W
6	DIR-DI	O	Data output to LC89056W
7	DIR-DO	I	Data input from LC89056W
8	DIR-ERROR	I	Dir error input from LC89056W
9	VSS	—	Ground
10	DIR-DATAO	I	Dir data input
11	DIR-XSTATE	I	Dir state signal input
12	CLK-SW	O	Clock select signal output
13	DAMUTE	O	D/A output muting signal output
14	1XRST	O	Reset signal output to DSP1
15	1PM	O	PM signal output to DSP1
16	1GP9	I	GP signal input from DSO1
17	1BST	O	BST signal output to DSP1
18	1HCS	O	HCS signal output to DSP1
19	1HDOUT	I	HD input from DSP1
20	1HACN	I	HACN signal input from DSP1
21	2XRST	O	BST signal output to DSP2
22	2BST	O	Reset signal output to DSP2
23	2PM	O	PM signal output to DSP2
24	2EXLOCK	O	Ext lock signal output to DSP2
25	3EXLOCK	O	Ext lock signal output to DSP3
26	VSS	—	Ground
27	VCC	—	Power supply +3.3V
28	2HACN	I	HACN signal input from DSP2
29	2HDOUT	I	HD input from DSP2
30	2HCS	O	HCS signal output to DSP2
31	3XRST	O	Reset signal output to DSP3
32	3BST	O	BST signal output to DSP3
33	3PM	O	PM signal output to DSP3
34	3HACN	I	HACN signal input from DSP3
35	3HDOUT	I	HD input from DSP3
36	3HCS	O	HCS signal output to DSP3
37	DARST	O	Reset signal output to D/A converter
38	DA2LAT	O	Serial data latch signal output to D/A converter
39	DACLK	O	Serial clock output to D/A converter
40	DADATAOUT	O	Serial data output to D/A converter
41	DA2DATAIN	I	Serial data input from D/A converter
42	DA1LAT	O	Serial data latch signal output to D/A converter
43	DA1DATAIN	I	Serial data input from D/A converter
44	VSS	—	Ground
45	ADINT	O	INT signal output to AK5352
46	DSP2 GP3	I	GP3 signal input from DSP2
47	END FLAG	I	End flag input from UART
48	DSP3 GP3	I	GP3 signal input from DSP3
49	MBUS-STS0	I	M-BUS status input
50	CTLAT	O	Control latch signal output to UART

# STR-DA3ES/DA5ES/VA555ES

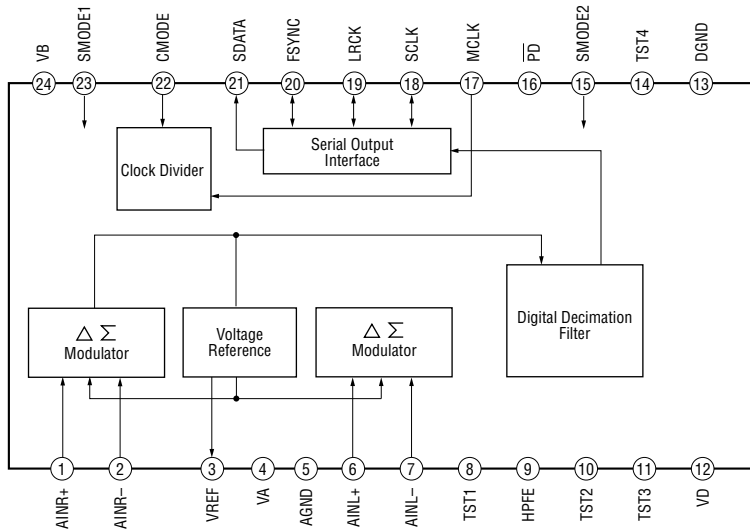
Pin No.	Pin Name	I/O	Description
51	A1O	O	Control A1 signal output to UART
52	MD2	I	Mode signal input
53	MD1	I	Connected to VCC
54	MD0	I	Mode signal input
55	RSTX	I	system reset input
56	VCC	—	Power supply +3.3V
57	X1	I	External crystal terminal (16.5MHz)
58	X0	O	External crystal terminal (16.5MHz)
59	VSS	—	Ground
60	STOP	I	AC power OFF signal input
61	RDS CLK	I	Clock signal input from RDS
62	POWER SW	I	Power switch input
63	MBUS-STS1	I	M-BUS status input
64	MBUS-STS2	I	M-BUS status input
65	MBUS-STS3	I	M-BUS status input
66	SIRCS	I	SIRCS serial data input
67	MBUS-STS4	I	M-BUS status input
68	VCC	—	Power supply +3.3V
69	PWRY	O	AC power relay drive signal output
70	MSTO	O	M-BUS status output
71	HP	I	headphone connect signal input
72	PROT	I	Power amp protector signal input
73	ACMUTE	O	Power amp muting signal output
74	OSD-VSINC	I	V-sync signal input from MB90089F
75	SAM/SS	O	SAM/SS select signal output
76	OSD-LAT	O	OSD latch signal output
77	VCC	—	Power supply +3.3V
78	RY-STB	O	STB signal output to NJU3716M
79	RY-CLR	O	Clear signal output to NJU3716M
80	FUN-LAT	O	Latch signal output to audio selector
81	VIDEO-RCK	O	RCK signal output to video selector
82	SSM/SCK	O	Clock signal output to SSM
83	VOL-LAT	O	Latch signal output to EVR
84	TUN-TUNED	I	Tuned signal input from tuner
85	TUN-STEREO	I	Stereo signal input from tuner
86	TUN-LAT	O	Latch signal output to tuner
87	TUN-DO	O	Serial data output to tuner
88	TUN-MUTE	O	Mute signal output to tuner
89	A1I	I	Control A1 signal input from UART
90	COM-CLK	O	Common clock output
91	COM-DATA	O	Common data output
92	RDS-DATA	I	Serial data input from RDS
93	RST TRG	O	Reset trigger output
94	PG3/OPTC	O	Digital (optical) input select signal output
95	PG4/OPTB	O	Digital (optical) input select signal output
96	PG5/SSMRST	O	Reset signal output to SSM
97	VCC	—	Power supply +3.3V
98	VSS	—	Ground
99	EEPROM SDA	I/O	Serial data input/output to EEPROM
100	EEPROM SCL	O	Clock output to EEPROM



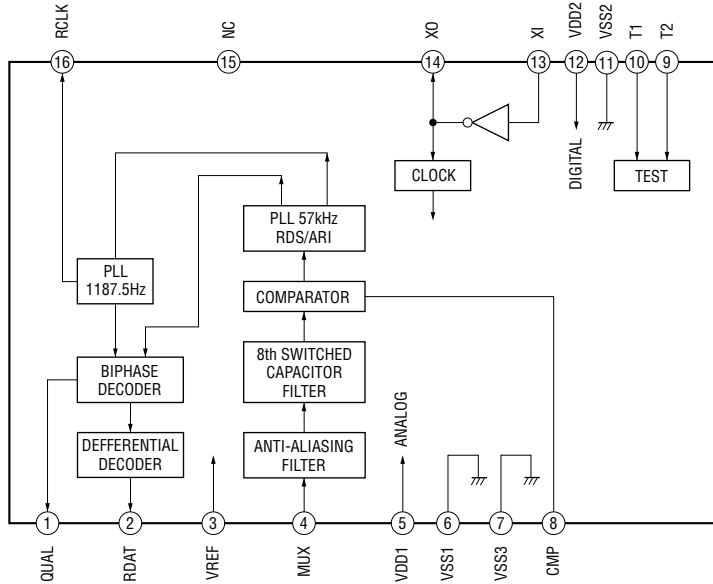
Pin No.	Pin Name	I/O	Description
101	VSS	—	Ground
102	HCLK	O	H clock output to all DSP
103	HDIN	O	H data output to all DSP
104	SPMAIN	I	Speaker select switch signal input
105	OSD-CLK	O	Clock output to MB90089F
106	OSD-DAT	O	Serial data output to MB90089F
107	SSM/MISO	I	Serial data input from SSM
108	SSM/MOSI	O	Serial data output to SSM
109	SOT1	O	Serial data output to RS-232C
110	SIN1	I	Serial data input to RS-232C
111	FL CLK	O	Clock signal output to FL display
112	FL DIN	O	serial data output to FL display
113	FL LAT	O	Latch signal output to FL display
114	FL CLR	O	Clear signal output to FL display
115	SP2ND	I	Speaker select switch signal input
116	JOGUP	I	JOG dial up signal input
117	JOGDOWN	I	JOG dial down signal input
118	FUNCUP	I	Function dial up signal input
119	FUNCDWN	I	Function dial down signal input
120	VOLUP	O	Volume dial up signal output
121	VOLDWN	O	Volume dial down signal output
122	VCC	—	Power supply +3.3V
123	OPTA	O	Digital (optical) input select signal output
124	LEDCLR	O	Clock output to LED driver
125	LEDSTB	O	Strobe signal output to LED driver
126	DAVS (VSS)	—	Ground
127	DAVC (VCC)	—	Power supply +3.3V
128	AVCC (VCC)	—	Power supply +3.3V
129	AVRH (VCC)	—	Power supply +3.3V
130	AVRL (VSS)	—	Ground
131	AVSS (VSS)	—	Ground
132	AD1	I	Key function A/D input
133	AD2	I	Key function A/D input
134	AD3	I	Key function A/D input
135	AD4	I	Key function A/D input
136	AD5	I	Key function A/D input
137	VERSION	I	Version set terminal
138	RDS SIGNAL	I	RDS signal input
139	A/D VOLUME	I	Key function A/D input
140	VCC2	—	Power supply +3.3V
141	BACKUP	I	Connected to VCC
142	GND	—	Ground
143	OPN	I	Not used (open)
144	VSS	—	Ground

5-31.IC BLOCK DIAGRAMS

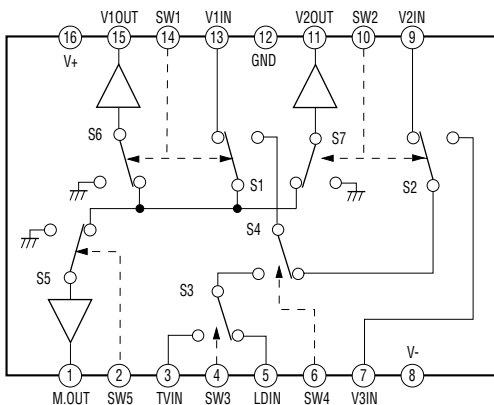
IC1701 AK5352-VF-E2 (DIGITAL BOARD)



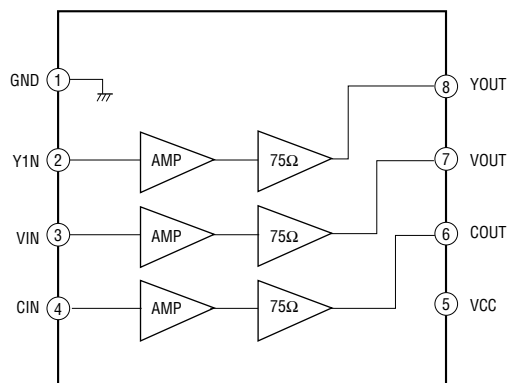
IC2101 BU1924F-E2 (DIGITAL BOARD)



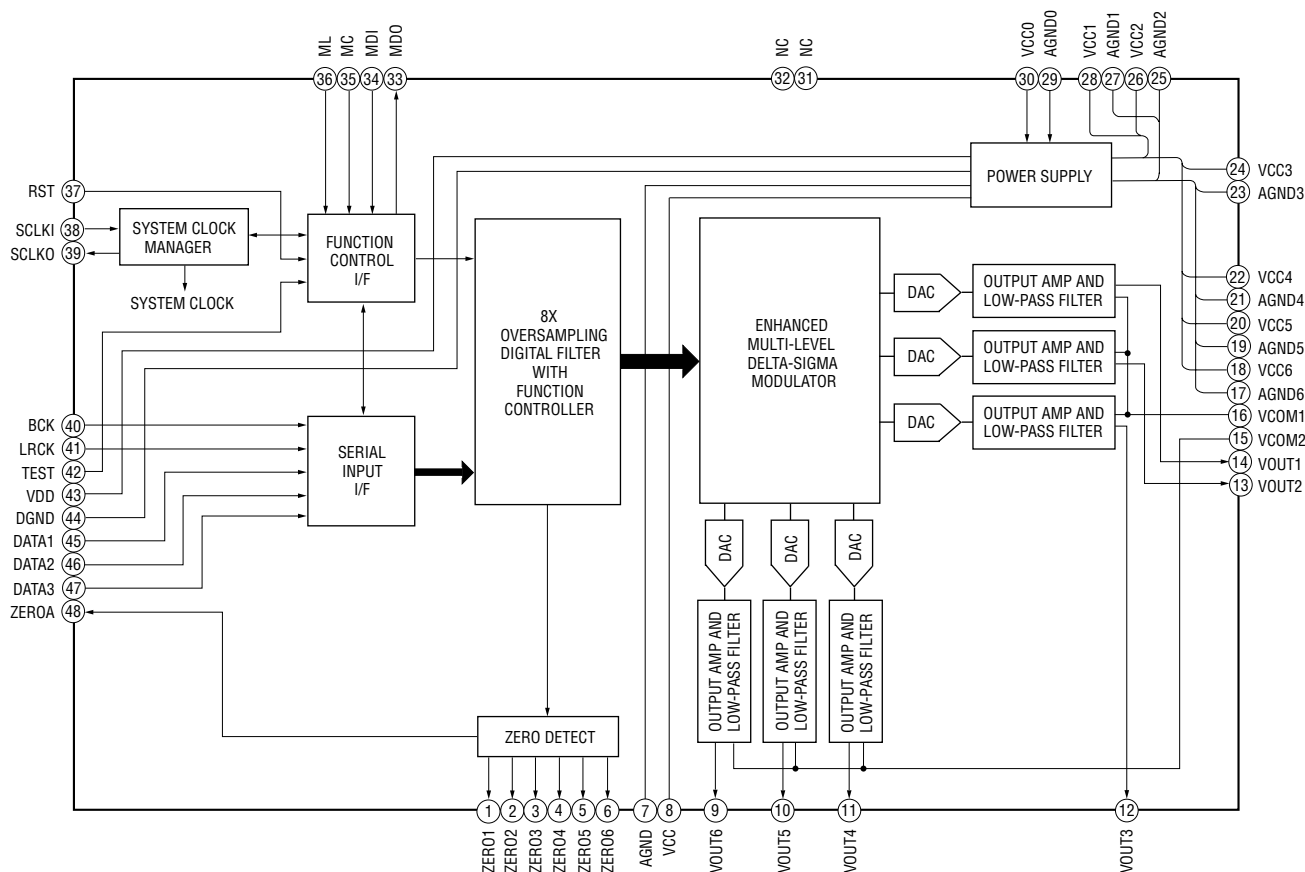
IC201, 211 NJM2296M-TE2 (C-VIDEO BOARD)  
IC202 NJM2296M-TE2 (S-VIDEO BOARD)



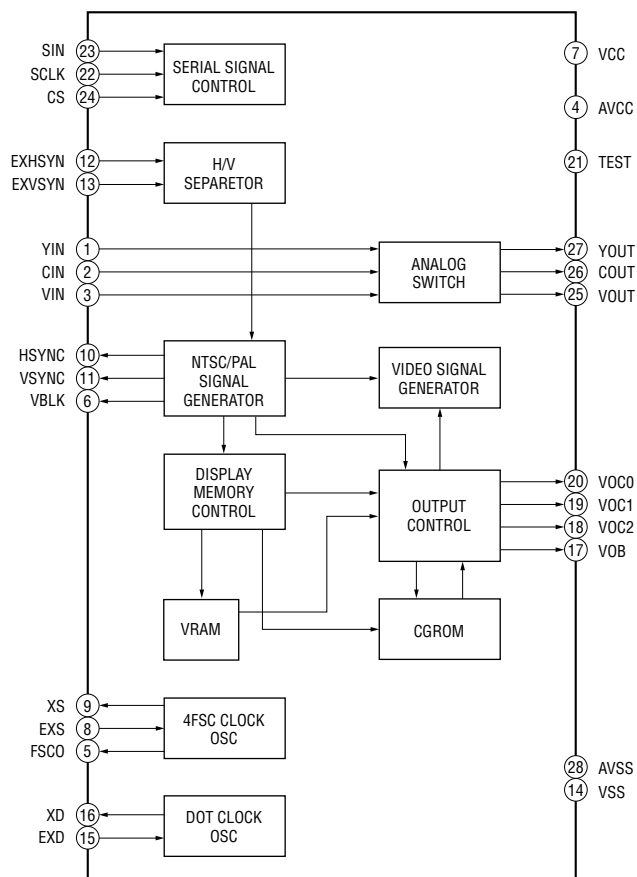
IC210 BA7622F-E2-A (S-VIDEO BOARD)



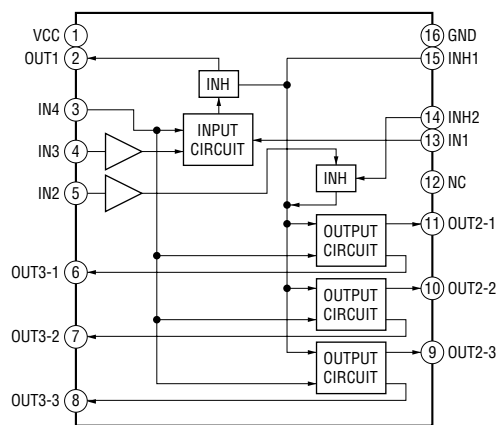
IC1602 PCM1604Y/2K (DIGITAL BOARD)



IC209 MB90089PF-G-238-BND (S-VIDEO BOARD)

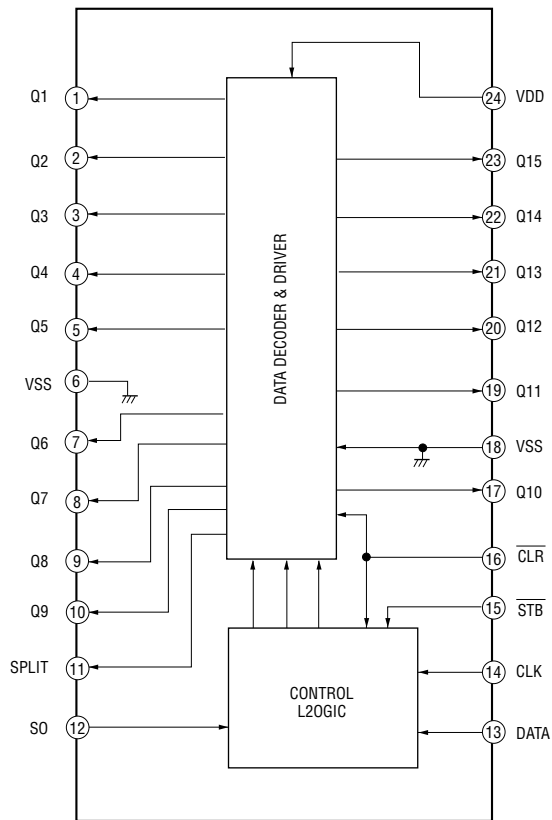


IC200 NJM2145M-TE2 (M-BUS BOARD)

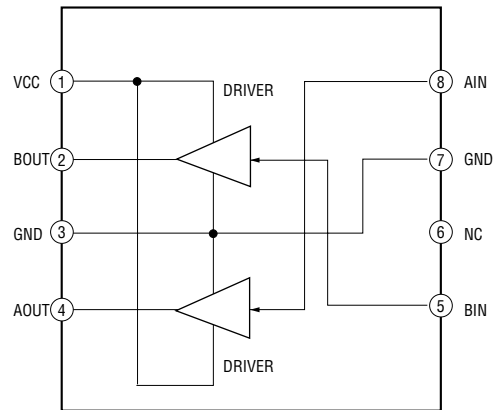


# STR-DA3ES/DA5ES/VA555ES

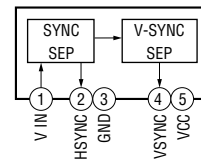
**IC102 NJU3716M-T2 (DISPLAY BOARD)  
IC2103 NJU3716M-T2 (DIGITAL BOARD)**



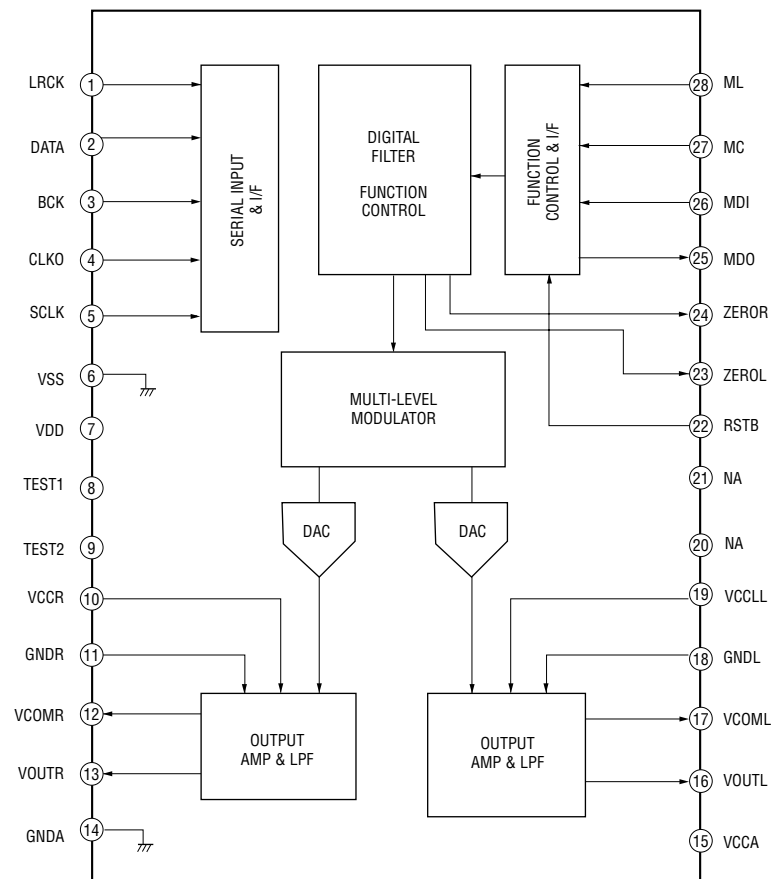
**IC103 BA6208F-E2 (DISPLAY BOARD)**



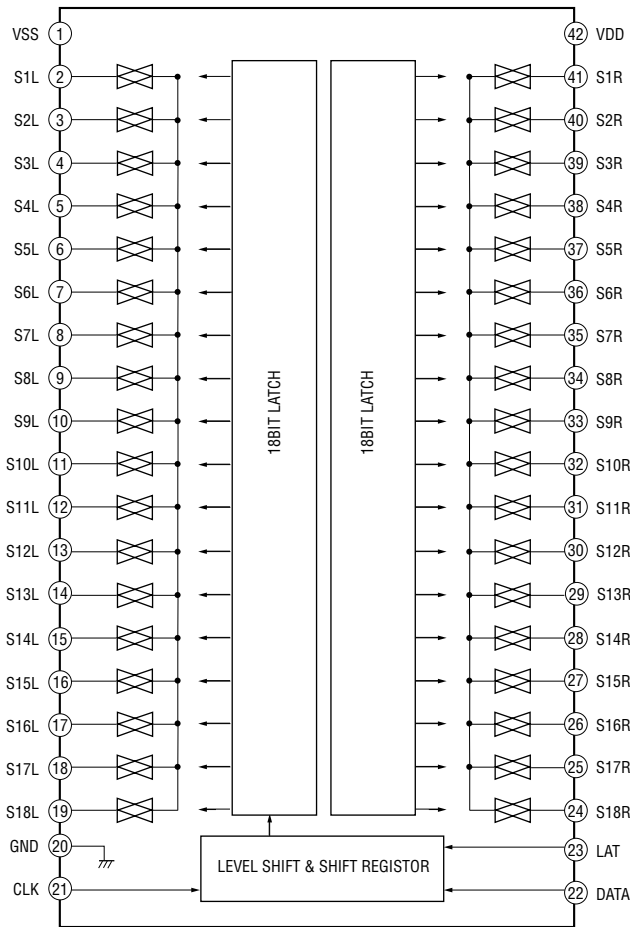
**IC204, 205 LA7213 (S-VIDEO BOARD)**



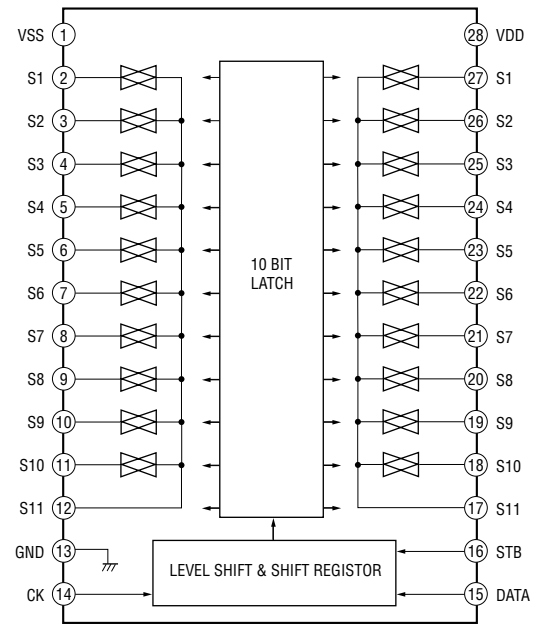
**IC1601 PCM1737E-1/2K (DIGITAL BOARD)**



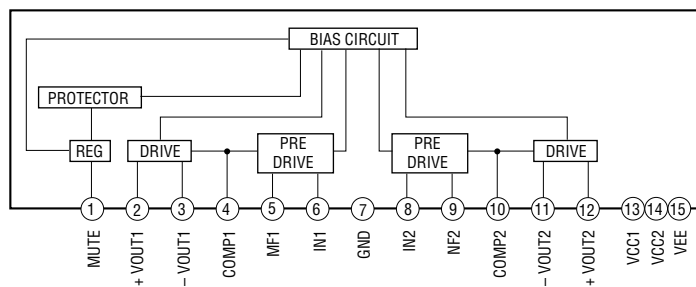
IC302,303 TC9274N-015 (INPUT BOARD)  
IC402 TC9274N-016 (E-VOL BOARD)



IC304 TC9273N-013 (INPUT BOARD)



IC501,601,701 uPC2581V-S (AMP BOARD)



SECTION 6  
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:  
KNOB, BALANCE (WHITE) . . . (RED)

↑                    ↑  
Parts color    Cabinets color

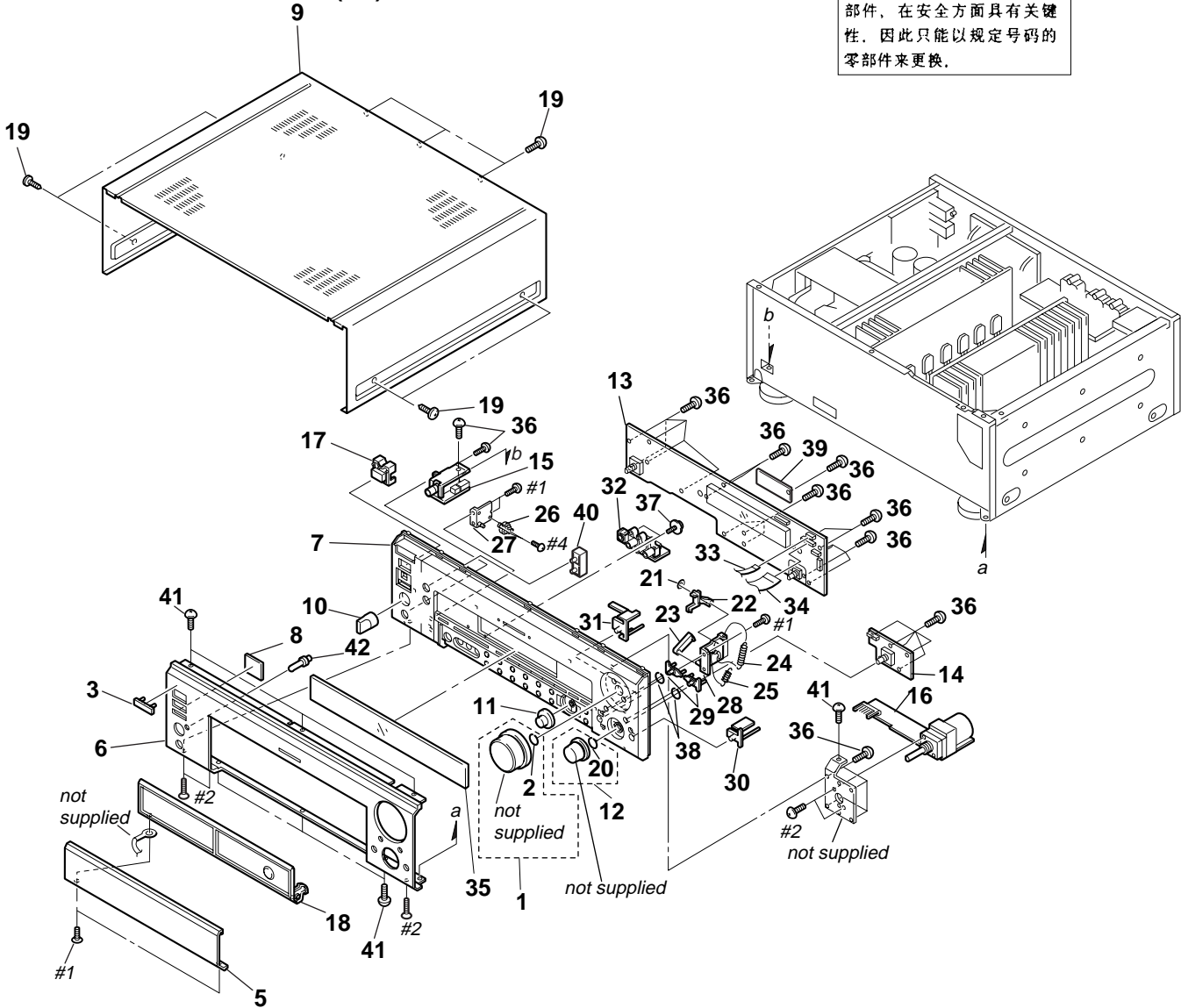
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation  
CND : Canadian model  
CH : Chinese model  
KR : Korea model

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

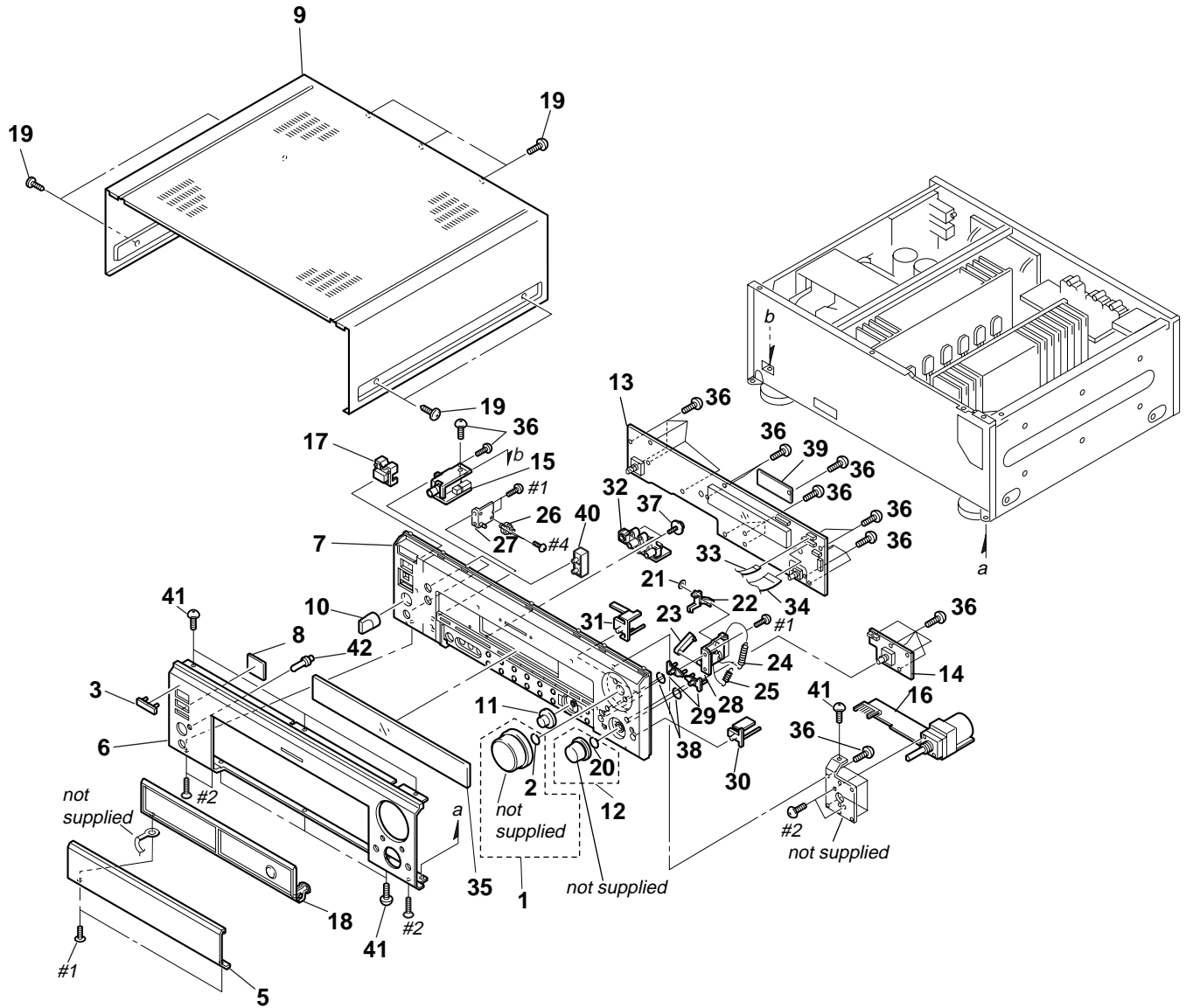
6-1. FRONT PANEL SECTION (1/2)



Ref. No.	Part No.	Description	Remark
1	X-4951-908-1	KNOB (VOL) ASSY (GOLD)	
1	X-4953-180-1	KNOB (V54) ASSY (BLACK)	
2	3-350-426-01	SPRING	
3	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)	
5	4-234-166-01	PANEL (DOOR) (BLACK) (DA5ES)	
5	4-234-166-11	PANEL (DOOR) (BLACK) (DA3ES)	
5	4-234-166-21	PANEL (DOOR) (BLACK) (VA555ES:AEP)	
5	4-234-166-31	PANEL (DOOR) (GOLD) (VA555ES:AEP)	
5	4-234-166-41	PANEL (DOOR) (GOLD) (VA555ES:CH,KR)	
5	4-234-166-51	PANEL (DOOR) (BLACK) (VA555ES:E)	
6	4-234-165-01	PANEL (V5), FRONT (DA5ES)	
6	4-234-165-11	PANEL (V5), FRONT (DA3ES)	
6	4-234-165-21	PANEL (V5), FRONT (VA555ES:AEP,E)	
6	4-234-165-31	PANEL (V5), FRONT (VA555ES:AEP,CH,KR)	

Ref. No.	Part No.	Description	Remark
7	X-4953-784-3	BASE (B) ASSY, PANEL (BLACK) (DA5ES)	
7	X-4953-785-3	BASE (B) ASSY, PANEL (BLACK) (VA555ES:AEP)	
7	X-4953-786-3	BASE (N) ASSY, PANEL (GOLD) (VA555ES:AEP)	
7	X-4953-787-3	BASE (N) ASSY, PANEL (GOLD) (VA555ES:CH,KR)	
7	X-4953-984-3	BASE (B) ASSY, PANEL (BLACK) (DA3ES/VA555ES:E)	
8	4-228-862-11	WINDOW (IR) (GOLD)	
8	4-234-092-01	WINDOW (IR) (BLACK) (DA5ES/VA555ES:AEP,E)	
8	4-234-092-11	WINDOW (IR) (BLACK) (DA3ES)	
9	4-222-052-71	CASE (GOLD)	
9	4-222-052-91	CASE (BLACK)	
10	4-233-626-01	KNOB (F14B) (BLACK)	
10	4-233-626-11	KNOB (F14B) (GOLD)	

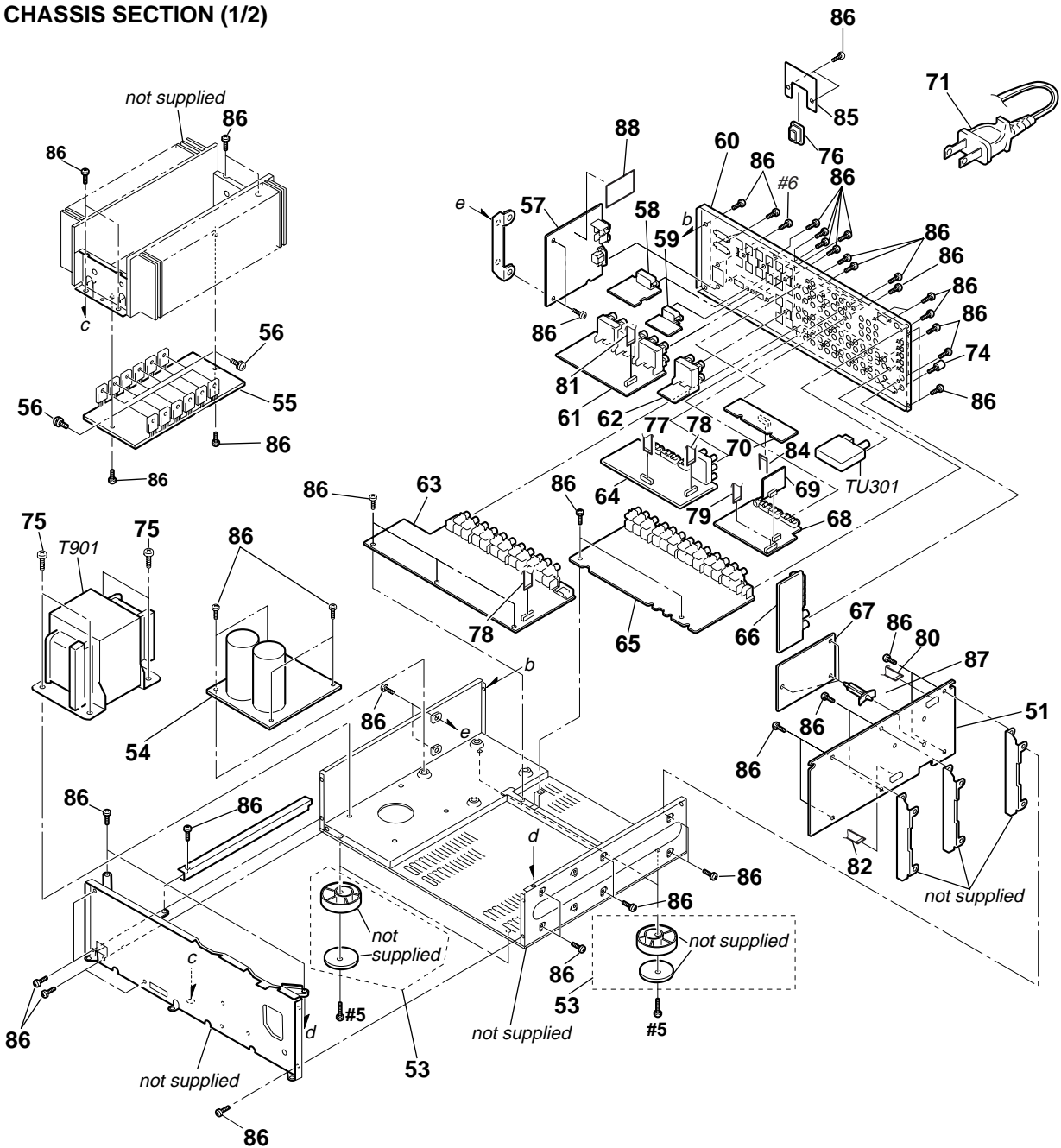
6-2. FRONT PANEL SECTION (2/2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
11	4-228-859-01	KNOB (JOG) (BLACK)		28	X-4952-962-1	BRACKET (DR) ASSY	
11	4-228-859-11	KNOB (JOG) (GOLD)		29	4-228-850-01	BUTTON (F)	
12	X-4951-912-1	KNOB (BAL) ASSY (BLACK)		30	4-228-849-01	BUTTON (E) (BLACK)	
12	X-4951-913-1	KNOB (BAL) ASSY (GOLD)		30	4-228-849-11	BUTTON (E) (GOLD)	
13	A-4476-692-A	DISPLAY BOARD, COMPLETE (DA5ES)		31	4-228-848-01	BUTTON (D) (BLACK)	
13	A-4476-693-A	DISPLAY BOARD, COMPLETE (VA555ES)		31	4-228-848-11	BUTTON (D) (GOLD)	
13	A-4476-760-A	DISPLAY BOARD, COMPLETE (DA3ES)		32	1-681-467-11	VIDEO 3 BOARD	
14	1-681-466-11	FUNCTION BOARD		33	1-773-162-11	WIRE (FLAT TYPE) (21 CORE)	
15	1-681-470-11	HP BOARD		34	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
16	1-681-468-11	M-VOL BOARD		35	4-234-224-01	PLATE (B), INDICATION (BLACK)	
17	4-998-592-01	BUTTON (POWER) (BLACK)		35	4-234-225-01	PLATE (M), INDICATION (GOLD)	
17	4-998-592-12	BUTTON (POWER) (GOLD)		36	4-951-620-01	SCREW (2.6X8), +BVTP	
18	4-228-839-01	DOOR (BASE) (BLACK)		37	4-933-134-11	SCREW (+PTPWH M2.6X8)	
18	4-228-839-11	DOOR (BASE) (GOLD)		38	4-228-856-01	PLATE (BUTTON F), SHADING	
19	4-227-843-01	SCREW (TP), FLAT HEAD (BLACK)		39	1-681-472-11	LED BOARD	
19	4-227-843-11	SCREW (TP), FLAT HEAD (GOLD)		40	X-4953-779-1	BUTTON (G) (B) ASSY (BLACK)	
20	3-703-466-00	SPRING (6600)		40	X-4953-780-1	BUTTON (G) (N) ASSY (GOLD)	
21	3-167-330-01	WASHER		41	3-704-515-21	SCREW (BV/RING)	
22	4-228-857-01	ARM, DOOR LOCK		42	X-4950-462-1	LENS ASSY, LED (DA3ES, DA5ES)	
23	4-228-858-01	ARM		#1	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
24	4-228-860-01	SPRING, TENSION		#2	7-685-536-19	SCREW +BTP 2.6X12 TYPE2 N-S	
25	4-228-861-01	SPRING, TENSION		#4	7-685-853-04	SCREW +BVTT 2X6 (S)	
26	3-973-975-31	DAMPER, OIL					
27	X-4952-961-1	BRACKET (DL) ASSY					

# STR-DA3ES/DA5ES/VA555ES

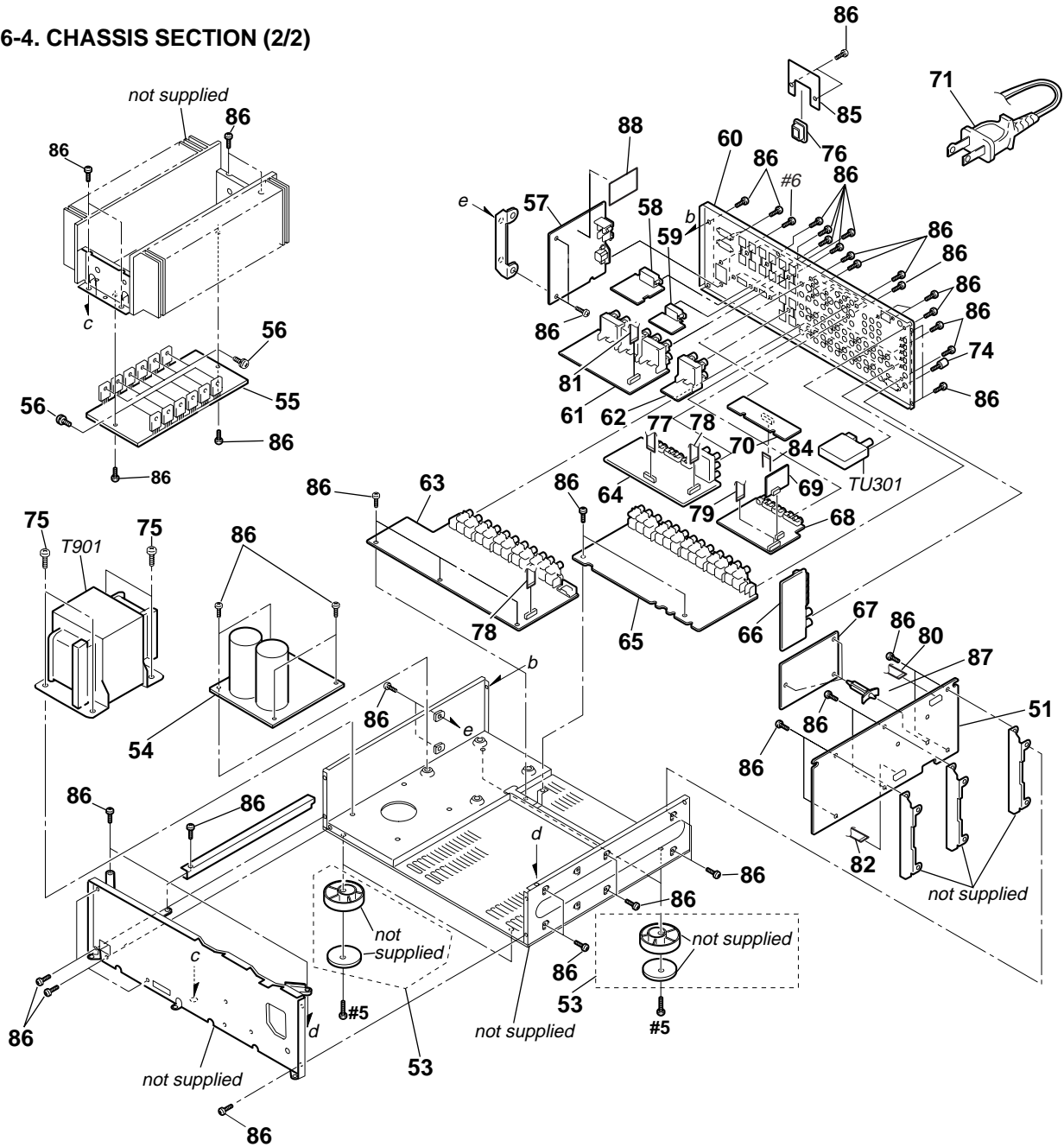
## 6-3. CHASSIS SECTION (1/2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-4476-738-A	DIGITAL BOARD, COMPLETE (DA5ES)		60	4-234-163-21	PANEL (V5), BACK (DA3ES:US)	
51	A-4476-739-A	DIGITAL BOARD, COMPLETE (VA555ES:AEP)		60	4-234-163-31	PANEL (V5), BACK (DA3ES:CND)	
51	A-4476-740-A	DIGITAL BOARD, COMPLETE (VA555ES:E)		60	4-234-163-41	PANEL (V5), BACK (VA555ES:R)	
51	A-4476-741-A	DIGITAL BOARD, COMPLETE (VA555ES:CH,KR)		60	4-234-163-51	PANEL (V5), BACK (VA555ES:E)	
51	A-4476-765-A	DIGITAL BOARD, COMPLETE (DA3ES)		60	4-234-163-61	PANEL (V5), BACK (VA555ES:CH)	
53	X-4953-883-1	FOOT ASSY		60	4-234-163-71	PANEL (V5), BACK (VA555ES:KR)	
54	A-4476-674-A	DC BOARD, COMPLETE(DA5ES,VA555ES)		61	A-4476-706-A	SPTM BOARD, COMPLETE (DA3ES,DA5ES)	
54	A-4476-758-A	DC BOARD, COMPLETE (DA3ES)		61	A-4476-707-A	SPTM BOARD, COMPLETE (VA555ES)	
55	A-4476-670-A	AMP BOARD, COMPLETE (DA3ES,DA5ES)		62	1-681-474-11	3RD ROOM SPTM BOARD (DA3ES,DA5ES)	
55	A-4476-671-A	AMP BOARD, COMPLETE (VA555ES)		63	A-4476-716-A	E-VOL BOARD, COMPLETE (DA5ES)	
56	3-905-609-11	SCREW (TRANSISTOR)		63	A-4476-717-A	E-VOL BOARD, COMPLETE (VA555ES)	
57	A-4476-677-A	AC BOARD, COMPLETE (DA5ES)		63	A-4476-761-A	E-VOL BOARD, COMPLETE (DA3ES)	
57	A-4476-678-A	AC BOARD, COMPLETE (VA555ES:AEP)		64	A-4476-686-A	C-VIDEO BOARD, COMPLETE)	
57	A-4476-679-A	AC BOARD, COMPLETE (VA555ES:CH,KR)		65	A-4476-720-A	INPUT BOARD, COMPLETE (DA5ES)	
57	A-4476-681-A	AC BOARD, COMPLETE (VA555ES:E)		65	A-4476-721-A	INPUT BOARD, COMPLETE (VA555ES)	
57	A-4476-759-A	AC BOARD, COMPLETE (DA3ES)		65	A-4476-762-A	INPUT BOARD, COMPLETE (DA3ES)	
58	1-681-462-11	VOL SEL BOARD(VA555ES:E)		66	A-4476-710-A	DIGITAL INPUT BOARD, COMPLETE	
59	1-681-471-11	4/8 BOARD		67	A-4727-021-A	SUB DSP BOARD, COMPLETE (DA5ES,VA555ES)	
60	4-234-163-01	PANEL (V5), BACK (DA5ES:US)		68	A-4476-700-A	S-VIDEO BOARD, COMPLETE (DA3ES,DA5ES)	
60	4-234-163-11	PANEL (V5), BACK (DA5ES:CND)					



6-4. CHASSIS SECTION (2/2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
68	A-4476-701-A	S-VIDEO BOARD, COMPLETE (VA555ES)		81	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
69	A-4476-736-A	CLOCK BOARD, COMPLETE (VA555ES)		82	1-773-141-11	WIRE (FLAT TYPE) (21 CORE)	
70	A-4476-725-A	M-BUS BOARD, COMPLETE (DA3ES,DA5ES)		84	1-769-879-11	WIRE (FLAT TYPE) (7 CORE) (DA3ES,DA5ES)	
△71	1-551-631-22	CORD, POWER (VA555ES:AEP,E)		* 85	4-923-873-01	BRACKET, CORD STOPPER (DA3ES,VA555ES:KR)	
△71	1-559-479-11	CORD, POWER (DA3ES)		86	4-974-510-11	SCREW (+BV 3X8 CU)	
△71	1-757-130-11	CORD, POWER (VA555ES:CH)		* 87	4-954-051-51	HOLDER, PC BOARD (DA5ES,VA555ES)	
△71	1-769-079-21	CORD, POWER (VA555ES:KR)		* 88	3-703-044-26	LABEL, CAUTION (US,GND)	
△71	1-823-512-11	CORD, POWER (DA5ES,VA555ES:E)		△ T901	1-437-270-11	TRANSFORMER, POWER (DA5ES:US)	
* 73	4-871-306-21	RUBBER (A) (VA555ES:KR)		△ T901	1-437-271-11	TRANSFORMER, POWER (DA5ES:CND)	
74	4-947-010-01	SCREW, FEEDER FIXED		△ T901	1-437-273-11	TRANSFORMER, POWER (VA555ES:AEP,E)	
75	4-394-596-01	SCREW (M5), TERMINAL		△ T901	1-437-274-11	TRANSFORMER, POWER (VA555ES:CH,KR)	
76	4-916-783-01	BUSHING, CORD (DA3ES,VA555ES:KR)		△ T901	1-437-276-11	TRANSFORMER, POWER (DA3ES:US)	
77	1-769-937-11	WIRE (FLAT TYPE) (11 CORE)		△ T901	1-437-277-11	TRANSFORMER, POWER (DA3ES:CND)	
78	1-769-971-11	WIRE (FLAT TYPE) (13 CORE)		TU301	1-693-539-21	TUNER (DA3ES,DA5ES,VA555ES:E)	
79	1-769-975-11	WIRE (FLAT TYPE) (13 CORE)		TU301	1-693-540-21	TUNER (VA555ES:AEP,CH,KR)	
80	1-773-011-11	WIRE (FLAT TYPE) (15 CORE) (VA555ES:KR)		#5	7-685-885-09	SCREW +BVTT 4X16 (S)	
80	1-823-582-11	WIRE (FLAT TYPE) (15 CORE)		#6	7-685-659-79	SCREW +BVTT 4X8 TYPE2 IT-3	

(EXCEPT VA555ES:KR)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

SECTION 7  
ELECTRICAL PARTS LIST

4/8

AC

Note:

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\Delta$  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS  
All resistors are in ohms  
METAL: Metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F : nonflammable
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$  A..., uPA...:  $\mu$  PA..., uPB...:  $\mu$  PB...,  
uPC...:  $\mu$  PC..., uPD...:  $\mu$  PD...
- CAPACITORS  
uF :  $\mu$  F
- COILS  
uH :  $\mu$  H
- Abbreviation  
CND : Canadian model  
CH : Chinese model  
KR : Korea model

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark
	1-681-474-11	3RD ROOM SPTM BOARD (DA3ES,DA5ES)	
		*****	
		<TERMINAL>	
TM671	1-694-841-11	TERMINAL BOARD (SP) (SPEAKERS 3RD ROOM)	
		*****	
	1-681-471-11	4/8 BOARD	
		*****	
		<CONNECTOR>	
CNP903	1-785-103-11	PIN, CONNECTOR 5P	
		<SWITCH>	
S902	1-771-876-11	SWITCH, POWER	
		*****	
	A-4476-677-A	AC BOARD, COMPLETE (DA5ES)	
	A-4476-678-A	AC BOARD, COMPLETE (VA555ES:AEP)	
	A-4476-679-A	AC BOARD, COMPLETE (VA555ES:CH,KR)	
	A-4476-681-A	AC BOARD, COMPLETE (VA555ES:E)	
	A-4476-759-A	AC BOARD, COMPLETE (DA3ES)	
		*****	
	1-533-399-31	HOLDER, FUSE	
		<CAPACITOR>	
C903	1-128-547-11	ELECT 6800uF 20% 16V	
C905	1-119-820-11	ELECT 1uF 20% 50V	
C906	1-130-472-00	MYLAR 0.0012uF 5% 50V	
		(VA555ES:AEP,CH,KR)	
C906	1-137-432-91	MYLAR 820PF 5% 50V	
		(DA3ES,DA5ES,VA555ES:E)	
C907	1-137-350-11	FILM 0.015uF 5% 50V	
		(VA555ES:AEP,CH,KR)	
C907	1-137-150-11	FILM 0.01uF 5% 50V	
		(DA5ES,VA555ES:E)	
		<CONNECTOR>	
CNP901	1-564-321-00	PIN, CONNECTOR 2P (DA3ES,VA555ES:KR)	
* CNP902	1-565-792-11	PIN, CONNECTOR 2P	
$\Delta$ CNP904	1-816-148-11	INLET, AC (DA5ES/VA555ES:AEP,E,CH)	
CNP907	1-568-106-11	PIN, CONNECTOR 4P (VA555ES:E)	
		<DIODE>	
D901	8-719-085-36	DIODE 11EQS04-TB5	
D902	8-719-085-36	DIODE 11EQS04-TB5	

Ref. No.	Part No.	Description	Remark
D903	8-719-085-36	DIODE 11EQS04-TB5	
D904	8-719-085-36	DIODE 11EQS04-TB5	
D905	8-719-988-61	DIODE 1SS355TE-17	
D906	8-719-988-61	DIODE 1SS355TE-17	
D907	8-719-988-61	DIODE 1SS355TE-17	
		<TERMINAL>	
* EP901	1-537-738-21	TERMINAL, EARTH (DA3ES,DA5ES)	
		<FUSE>	
$\Delta$ F901	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5) 10A 125V	
		(DA3ES,DA5ES)	
$\Delta$ F901	1-533-465-51	FUSE, TIME LAG T2.5AL 250V (VA555ES)	
$\Delta$ F902	1-533-464-51	FUSE, T2.5AL 250V (VA555ES:AEP,CH)	
		<JACK>	
$\Delta$ J901	1-540-060-11	OUTLET, AC (POLAR) (AC OUTLET)	
		(EXCEPT VA555ES:AEP,KR)	
$\Delta$ J901	1-785-285-11	OUTLET, AC (1P) (AC OUTLET) (VA555ES:AEP)	
		<TRANSISTOR>	
Q901	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
$\Delta$ R901	1-219-237-11	SOLID 3.3M 20% 1/2W	
		(DA3ES,DA5ES)	
R902	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R903	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R904	1-216-093-91	RES-CHIP 68K 5% 1/10W	
R905	1-216-085-91	RES-CHIP 33K 5% 1/10W	
R906	1-216-049-11	METAL CHIP 1K 5% 1/10W	
		(VA555ES:AEP,CH,KR)	
R906	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
		(DA3ES,DA5ES,VA555ES:E)	
		<RELAY>	
$\Delta$ RY901	1-755-388-11	RELAY (AC POWER)	
		<TRANSFORMER>	
$\Delta$ T902	1-435-162-11	TRANSFORMER, POWER (DA3ES,DA5ES)	
$\Delta$ T902	1-435-163-11	TRANSFORMER, POWER (VA555ES:AEP,CH,KR)	
$\Delta$ T902	1-435-164-11	TRANSFORMER, POWER (VA555ES:E)	

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Ref. No.	Part No.	Description	Remark
		<IC>	
IC501	6-700-943-01	IC uPC2581V-S	
IC502	8-749-014-72	IC SAP15N	
IC503	8-749-014-73	IC SAP15P	
IC552	8-749-014-72	IC SAP15N	
IC553	8-749-014-73	IC SAP15P	
IC601	6-700-943-01	IC uPC2581V-S	
IC602	8-749-014-72	IC SAP15N	
IC603	8-749-014-73	IC SAP15P	
IC652	8-749-014-72	IC SAP15N	
IC653	8-749-014-73	IC SAP15P	
IC701	6-700-943-01	IC uPC2581V-S	
IC702	8-749-014-72	IC SAP15N	
IC703	8-749-014-73	IC SAP15P	
IC752	8-749-014-72	IC SAP15N	
IC753	8-749-014-73	IC SAP15P	
		<TRANSISTOR>	
Q501	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q503	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q599	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q609	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q658	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q659	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q709	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q759	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
		<RESISTOR>	
R501	1-208-782-11	RES-CHIP 1K 2%	1/8W
R502	1-208-571-11	RES-CHIP 68K 2%	1/8W
R503	1-249-494-11	CARBON 68K 5%	1/2W
R504	1-249-683-31	CARBON 2.7K 5%	1/2W
R505	1-216-089-91	RES-CHIP 47K 5%	1/10W
R509	1-216-025-11	RES-CHIP 100 5%	1/10W
R510	1-215-868-00	METAL OXIDE 680 5%	1W
R521	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
R522	1-216-077-91	RES-CHIP 15K 5%	1/10W
R523	1-216-093-91	RES-CHIP 68K 5%	1/10W
△R524	1-249-393-11	CARBON 10 5%	1/4W F
△R525	1-249-393-11	CARBON 10 5%	1/4W F
R526	1-259-977-11	CARBON MELF 33 2%	1/8W
R527	1-240-855-91	CARBON 6.2K 5%	1/4W
R528	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R529	1-216-089-91	RES-CHIP 47K 5%	1/10W
△R530	1-249-393-11	CARBON 10 5%	1/4W F
R539	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R540	1-216-049-11	RES-CHIP 1K 5%	1/10W
R541	1-216-689-11	METAL CHIP 39K 0.5%	1/10W

Ref. No.	Part No.	Description	Remark
R542	1-216-073-91	RES-CHIP 10K 5%	1/10W
R543	1-216-081-00	METAL CHIP 22K 5%	1/10W
R551	1-259-995-11	CARBON MELF 1K 2%	1/8W
R552	1-208-571-11	RES-CHIP 68K 2%	1/8W
R553	1-249-494-11	CARBON 68K 5%	1/2W
R554	1-249-683-31	CARBON 2.7K 5%	1/2W
R559	1-216-025-11	RES-CHIP 100 5%	1/10W
R560	1-215-868-00	METAL OXIDE 680 5%	1W
R571	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
R572	1-216-077-91	RES-CHIP 15K 5%	1/10W
R573	1-216-093-91	RES-CHIP 68K 5%	1/10W
△R574	1-249-393-11	CARBON 10 5%	1/4W F
△R575	1-249-393-11	CARBON 10 5%	1/4W F
R576	1-259-977-11	CARBON MELF 33 2%	1/8W
R577	1-240-855-91	CARBON 6.2K 5%	1/4W
R578	1-216-214-00	RES-CHIP 4.7K 2%	1/8W
R579	1-216-089-91	RES-CHIP 47K 5%	1/10W
△R580	1-249-393-11	CARBON 10 5%	1/4W F
△R587	1-249-393-11	CARBON 10 5%	1/4W F
R588	1-216-073-91	RES-CHIP 10K 5%	1/10W
△R591	1-249-393-11	CARBON 10 5%	1/4W F
△R592	1-249-393-11	CARBON 10 5%	1/4W F
R594	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R601	1-259-995-11	CARBON MELF 1K 2%	1/8W
R602	1-208-571-11	RES-CHIP 68K 2%	1/8W
R603	1-249-494-11	CARBON 68K 5%	1/2W
R604	1-249-683-31	CARBON 2.7K 5%	1/2W
R609	1-216-025-11	RES-CHIP 100 5%	1/10W
R621	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
R622	1-216-077-91	RES-CHIP 15K 5%	1/10W
R623	1-216-093-91	RES-CHIP 68K 5%	1/10W
△R624	1-249-393-11	CARBON 10 5%	1/4W F
△R625	1-249-393-11	CARBON 10 5%	1/4W F
R626	1-259-977-11	CARBON MELF 33 2%	1/8W
R627	1-240-855-91	CARBON 6.2K 5%	1/4W
R628	1-216-214-00	RES-CHIP 4.7K 2%	1/8W
R629	1-216-089-91	RES-CHIP 47K 5%	1/10W
△R630	1-249-393-11	CARBON 10 5%	1/4W F
R643	1-216-081-00	METAL CHIP 22K 5%	1/10W
R651	1-259-995-11	CARBON MELF 1K 2%	1/8W
R652	1-208-571-11	RES-CHIP 68K 2%	1/8W
R653	1-249-494-11	CARBON 68K 5%	1/2W
R654	1-249-683-31	CARBON 2.7K 5%	1/2W
R659	1-216-025-11	RES-CHIP 100 5%	1/10W
R671	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
R672	1-216-077-91	RES-CHIP 15K 5%	1/10W
R673	1-216-093-91	RES-CHIP 68K 5%	1/10W
△R674	1-249-393-11	CARBON 10 5%	1/4W F
△R675	1-249-393-11	CARBON 10 5%	1/4W F
R676	1-208-401-11	RES-CHIP 33 2%	1/8W
R677	1-240-855-91	CARBON 6.2K 5%	1/4W
R678	1-216-214-00	RES-CHIP 4.7K 2%	1/8W
R679	1-216-089-91	RES-CHIP 47K 5%	1/10W
△R680	1-249-393-11	CARBON 10 5%	1/4W F
R701	1-259-995-11	CARBON MELF 1K 2%	1/8W
R702	1-208-571-11	RES-CHIP 68K 2%	1/8W
R703	1-249-494-11	CARBON 68K 5%	1/2W
R704	1-249-683-31	CARBON 2.7K 5%	1/2W

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以阴影和 △标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

AMP

C-VIDEO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R709	1-216-025-11	RES-CHIP	100 5%	1/10W	C210	1-165-319-11	CERAMIC CHIP 0.1uF 50V
R721	1-216-055-00	METAL CHIP	1.8K 5%	1/10W	C211	1-165-319-11	CERAMIC CHIP 0.1uF 50V
R722	1-216-077-91	RES-CHIP	15K 5%	1/10W	C212	1-165-319-11	CERAMIC CHIP 0.1uF 50V
R723	1-216-093-91	RES-CHIP	68K 5%	1/10W	C213	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V
△ R724	1-249-393-11	CARBON	10 5%	1/4W F	C214	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V
△ R725	1-249-393-11	CARBON	10 5%	1/4W F	C238	1-163-038-91	CERAMIC CHIP 0.1uF 25V
R726	1-259-977-11	CARBON MELF	33 2%	1/8W	C240	1-163-038-91	CERAMIC CHIP 0.1uF 25V
R727	1-240-855-91	CARBON	6.2K 5%	1/4W	C253	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V
R728	1-216-214-00	RES-CHIP	4.7K 2%	1/8W	C255	1-128-834-11	ELECT 470uF 20% 10V
R729	1-216-089-91	RES-CHIP	47K 5%	1/10W	C278	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V
△ R730	1-249-393-11	CARBON	10 5%	1/4W F	C280	1-119-824-11	ELECT MELF 10uF 20% 50V
R743	1-216-081-00	METAL CHIP	22K 5%	1/10W	C281	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V
R751	1-259-995-11	CARBON MELF	1K 2%	1/8W	C282	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V
R752	1-208-571-11	RES-CHIP	68K 2%	1/8W	C283	1-163-243-11	CERAMIC CHIP 47PF 5% 50V
R753	1-249-494-11	CARBON	68K 5%	1/2W	C284	1-119-824-11	ELECT MELF 10uF 20% 50V
R754	1-249-683-31	CARBON	2.7K 5%	1/2W	C285	1-119-824-11	ELECT MELF 10uF 20% 50V
R759	1-216-025-11	RES-CHIP	100 5%	1/10W	C286	1-119-824-11	ELECT MELF 10uF 20% 50V
R771	1-216-055-00	METAL CHIP	1.8K 5%	1/10W	C287	1-119-824-11	ELECT MELF 10uF 20% 50V
R772	1-216-077-91	RES-CHIP	15K 5%	1/10W	C288	1-163-243-11	CERAMIC CHIP 47PF 5% 50V
R773	1-216-093-91	RES-CHIP	68K 5%	1/10W	C289	1-163-243-11	CERAMIC CHIP 47PF 5% 50V
△ R774	1-249-393-11	CARBON	10 5%	1/4W F	C290	1-128-834-11	ELECT 470uF 20% 10V
△ R775	1-249-393-11	CARBON	10 5%	1/4W F	C291	1-119-824-11	ELECT MELF 10uF 20% 50V
R776	1-259-977-11	CARBON MELF	33 2%	1/8W	C292	1-119-824-11	ELECT MELF 10uF 20% 50V
R777	1-240-855-91	CARBON	6.2K 5%	1/4W	C293	1-119-824-11	ELECT MELF 10uF 20% 50V
R778	1-216-214-00	RES-CHIP	4.7K 2%	1/8W	C294	1-119-824-11	ELECT MELF 10uF 20% 50V
R779	1-216-089-91	RES-CHIP	47K 5%	1/10W	C295	1-119-824-11	ELECT MELF 10uF 20% 50V
△ R780	1-249-393-11	CARBON	10 5%	1/4W F	C296	1-119-824-11	ELECT MELF 10uF 20% 50V
		<VARIABLE RESISTOR>			C297	1-164-690-91	CERAMIC CHIP 0.0022uF 5% 50V
RV501	1-238-598-11	RES, ADJ, CARBON 2.2K (IDRING CURRENT FRONT L)			C298	1-128-834-11	ELECT 470uF 20% 10V
RV551	1-238-598-11	RES, ADJ, CARBON 2.2K (IDRING CURRENT FRONT R)			C299	1-128-834-11	ELECT 470uF 20% 10V
RV601	1-238-598-11	RES, ADJ, CARBON 2.2K (IDRING CURRENT CENTER)			C2003	1-163-243-11	CERAMIC CHIP 47PF 5% 50V
RV651	1-238-598-11	RES, ADJ, CARBON 2.2K (IDRING CURRENT SURR BACK)			C2005	1-163-251-11	CERAMIC CHIP 100PF 5% 50V
RV701	1-238-598-11	RES, ADJ, CARBON 2.2K (IDRING CURRENT SURR L)			C2009	1-164-690-91	CERAMIC CHIP 0.0022uF 5% 50V
RV751	1-238-598-11	RES, ADJ, CARBON 2.2K (IDRING CURRENT SURR R)			C2014	1-163-038-91	CERAMIC CHIP 0.1uF 25V
		<RELAY>			C2015	1-163-038-91	CERAMIC CHIP 0.1uF 25V
RY504	1-515-793-11	RELAY			C2016	1-163-089-00	CERAMIC CHIP 6PF 50V
		*****			C2017	1-163-089-00	CERAMIC CHIP 6PF 50V
		A-4476-686-A C-VIDEO BOARD, COMPLETE *****			C2018	1-163-089-00	CERAMIC CHIP 6PF 50V
		<CAPACITOR>			C2019	1-128-830-11	ELECT 47uF 20% 10V
C201	1-119-824-11	ELECT MELF 10uF	20%	50V	C2020	1-128-830-11	ELECT 47uF 20% 10V
C202	1-119-824-11	ELECT MELF 10uF	20%	50V	C2021	1-128-830-11	ELECT 47uF 20% 10V
C203	1-119-824-11	ELECT MELF 10uF	20%	50V	C2022	1-128-830-11	ELECT 47uF 20% 10V
C204	1-119-824-11	ELECT MELF 10uF	20%	50V	C2023	1-165-319-11	CERAMIC CHIP 0.1uF 50V
C206	1-163-243-11	CERAMIC CHIP 47PF	5%	50V		<CONNECTOR>	
C207	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	CNS200	1-568-830-11	CONNECTOR, FFC 11P
C208	1-119-824-11	ELECT MELF 10uF	20%	50V	CNS205	1-784-774-11	CONNECTOR, FFC 13P
C209	1-165-319-11	CERAMIC CHIP 0.1uF		50V		<DIODE>	
					D202	8-719-801-78	DIODE 1SS184
						<FERRITE BEAD>	
					FB201	1-216-296-11	SHORT 0
					FB260	1-469-642-11	FILTER, EMI (SMD) (VA555ES)
					FB261	1-469-642-11	FILTER, EMI (SMD) (VA555ES)
					FB262	1-469-642-11	FILTER, EMI (SMD) (VA555ES)

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以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

# STR-DA3ES/DA5ES/VA555ES

**C-VIDEO**      **CLOCK**      **DC**

Ref. No.	Part No.	Description	Remark
		<IC>	
IC201	8-759-536-24	IC NJM-2296M-TE2	
IC211	8-759-536-24	IC NJM-2296M-TE2	
IC212	6-700-051-01	IC OPA2652	
IC213	6-700-051-01	IC OPA2652	
IC214	8-759-011-65	IC TC74HC4053AF(EL)	
		<JACK>	
J200	1-794-435-11	JACK, PIN 2P (MONITOR,TV/SAT)	
J201	1-770-337-21	JACK, PIN 3P (DVD/LD,VIDEO2)	
J202	1-770-337-21	JACK, PIN 3P (VIDEO1,2ND ROOM)	
J212	1-794-313-11	JACK, PIN (BLOCK) 9P (COMPONENT VIDEO)	
		<JUMPER RESISTOR>	
JR260	1-216-296-00	CONDUCTOR, CHIP (3216) (DA3ES, DA5ES)	
JR261	1-216-296-00	CONDUCTOR, CHIP (3216) (DA3ES, DA5ES)	
JR263	1-216-296-00	CONDUCTOR, CHIP (3216) (DA3ES, DA5ES)	
		<COIL>	
L206	1-410-482-31	INDUCTOR 100uH	
L207	1-410-482-31	INDUCTOR 100uH	
L208	1-410-482-31	INDUCTOR 100uH	
L209	1-410-482-31	INDUCTOR 100uH	
		<TRANSISTOR>	
Q204	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q205	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q206	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q207	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q208	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		<RESISTOR>	
R201	1-216-022-00	METAL CHIP 75 5% 1/10W	
R202	1-216-022-00	METAL CHIP 75 5% 1/10W	
R203	1-216-022-00	METAL CHIP 75 5% 1/10W	
R204	1-216-022-00	METAL CHIP 75 5% 1/10W	
R205	1-216-022-00	METAL CHIP 75 5% 1/10W	
R206	1-216-022-00	METAL CHIP 75 5% 1/10W	
R207	1-216-022-00	METAL CHIP 75 5% 1/10W	
R234	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R240	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R241	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R253	1-216-022-00	METAL CHIP 75 5% 1/10W	
R256	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R257	1-216-022-00	METAL CHIP 75 5% 1/10W	
R258	1-216-022-00	METAL CHIP 75 5% 1/10W	
R259	1-216-022-00	METAL CHIP 75 5% 1/10W	
R260	1-216-022-00	METAL CHIP 75 5% 1/10W	
R261	1-216-022-00	METAL CHIP 75 5% 1/10W	
R262	1-216-022-00	METAL CHIP 75 5% 1/10W	
R263	1-216-022-00	METAL CHIP 75 5% 1/10W	
R264	1-216-022-00	METAL CHIP 75 5% 1/10W	
R265	1-216-022-00	METAL CHIP 75 5% 1/10W	
R266	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R267	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R268	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R271	1-216-022-00	METAL CHIP 75 5% 1/10W	
R275	1-216-022-00	METAL CHIP 75 5% 1/10W	
R280	1-216-022-00	METAL CHIP 75 5% 1/10W	
R281	1-216-037-00	METAL CHIP 330 5% 1/10W	
R282	1-216-037-00	METAL CHIP 330 5% 1/10W	
R283	1-216-037-00	METAL CHIP 330 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R284	1-216-037-00	METAL CHIP 330 5% 1/10W	
R285	1-216-037-00	METAL CHIP 330 5% 1/10W	
R286	1-216-037-00	METAL CHIP 330 5% 1/10W	
R287	1-216-022-00	METAL CHIP 75 5% 1/10W	
R288	1-216-022-00	METAL CHIP 75 5% 1/10W	
R289	1-216-022-00	METAL CHIP 75 5% 1/10W	
R291	1-216-295-91	SHORT 0	
R292	1-216-295-91	SHORT 0	
R293	1-216-295-91	SHORT 0	
*****			
	A-4476-736-A	CLOCK BOARD, COMPLETE (VA555ES)	
*****			
		<CAPACITOR>	
C2010	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C256	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C257	1-163-091-00	CERAMIC CHIP 8PF 50V	
C258	1-163-091-00	CERAMIC CHIP 8PF 50V	
C259	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C260	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C261	1-128-840-11	ELECT 47uF 20% 16V	
		<CONNECTOR>	
CNS202	1-770-593-41	CONNECTOR, BOARD TO BOARD 5P	
		<TRIMMER>	
CT201	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (VCO)	
CT202	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (VCO)	
		<FERRITE BEAD>	
FB203	1-414-813-11	FERRITE 0uH	
		<IC>	
IC207	8-759-242-70	IC TC7WU04F(TE12R)	
IC208	8-759-032-01	IC TC74HC00AF(EL)	
		<RESISTOR>	
R242	1-216-025-11	RES-CHIP 100 5% 1/10W	
R243	1-216-035-00	METAL CHIP 270 5% 1/10W	
R244	1-216-035-00	METAL CHIP 270 5% 1/10W	
R269	1-216-025-11	RES-CHIP 100 5% 1/10W	
R270	1-216-025-11	RES-CHIP 100 5% 1/10W	
R276	1-216-121-11	RES-CHIP 1M 5% 1/10W	
R277	1-216-121-11	RES-CHIP 1M 5% 1/10W	
		<VIBLATOR>	
X200	1-781-820-21	VIBRATOR, CRYSTAL (17.34MHZ)	
X201	1-781-821-21	VIBRATOR, CRYSTAL (14.31MHZ)	
*****			
	A-4476-674-A	DC BOARD, COMPLETE(DA5ES,VA555ES)	
	A-4476-758-A	DC BOARD, COMPLETE (DA3ES)	
*****			
	1-533-399-31	HOLDER, FUSE	
		< CAPACITOR >	
C801	1-115-684-21	MYLAR 0.0047uF 5% 100V	
C802	1-115-684-21	MYLAR 0.0047uF 5% 100V	
C803	1-135-926-11	ELECT 15000uF 20% 71V	
		(EXCEPT DA3ES)	

DC

DIGITAL

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark			
C803	1-137-666-12	ELECT	15000uF	20%	71V (DA3ES)		A-4476-738-A	DIGITAL BOARD,COMPLETE (DA5ES)				
C804	1-125-900-12	ELECT	15000uF	20%	71V (EXCEPT DA3ES)		A-4476-739-A	DIGITAL BOARD,COMPLETE (VA555ES:AEP)				
							A-4476-740-A	DIGITAL BOARD,COMPLETE (VA555ES:E)				
							A-4476-741-A	DIGITAL BOARD,COMPLETE (VA555ES:CH,KR)				
							A-4476-765-A	DIGITAL BOARD,COMPLETE (DA3ES)	*****			
C804	1-137-666-12	ELECT	15000uF	20%	71V (DA3ES)							
C805	1-126-860-11	ELECT	47uF	20%	50V	*	3-309-144-21	HEAT SINK				
C808	1-119-815-21	ELECT	2200uF	20%	35V		7-685-646-79	SCREW +BVTP3X8 TYPE2 IT-3				
C809	1-119-815-21	ELECT	2200uF	20%	35V							
C812	1-128-860-11	ELECT	47uF	20%	50V			<CAPACITOR>				
C815	1-128-873-91	ELECT	220uF	20%	63V		C1101	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V
C816	1-128-860-11	ELECT	47uF	20%	50V		C1102	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C822	1-106-377-00	MYLAR	0.027uF	99%	200V		C1103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C823	1-126-939-11	ELECT	10000uF	20%	16V		C1104	1-128-858-91	ELECT	22uF	20%	25V
C824	1-127-721-11	ELECT	1000uF	20%	16V		C1105	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >										
CN801	1-564-104-11	PIN, CONNECTOR 3P										
CNP801	1-784-925-11	PIN, CONNECTOR 10P										
CNP802	1-691-768-11	PLUG (MICRO CONNECTOR) 6P										
CNP803	1-785-102-11	PIN, CONNECTOR 4P										
CNP804	1-691-769-11	PLUG (MICRO CONNECTOR) 7P										
		< DIODE >										
D801	8-719-083-47	DIODE KCH30A5										
D802	8-719-083-48	DIODE KRH30A5										
D803	8-719-083-89	DIODE 11ES2N-TB5										
D804	8-719-083-89	DIODE 11ES2N-TB5										
D805	8-719-083-89	DIODE 11ES2N-TB5										
D806	8-719-083-89	DIODE 11ES2N-TB5										
D807	8-719-510-53	DIODE D4SB60L										
D811	8-719-057-00	DIODE UDZ-TE-17-36B										
D812	8-719-083-89	DIODE 11ES2N-TB5										
D813	8-719-083-89	DIODE 11ES2N-TB5										
D814	8-719-056-77	DIODE UDZ-TE-17-3.9B										
D816	8-719-070-30	DIODE PTZ-TE25-5.6A										
		< FUSE >										
△F801	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5) 10A/125V										
△F802	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5) 10A/125V										
△F805	1-533-419-11	FUSE, GLASS CYLINDRICAL(DIA.5) 4A/125V (DA3ES,DA5ES,VA555ES:E)										
△F805	1-532-464-51	FUSE T2.5AL/250V (VA555ES:AEP,CH,KR)										
△F806	1-533-419-11	FUSE, GLASS CYLINDRICAL(DIA.5) 4A/125V (DA3ES,DA5ES,VA555ES:E)										
△F806	1-532-464-51	FUSE T2.5AL/250V (VA555ES:AEP,CH,KR)										
		< TRANSISTOR >										
Q801	8-729-140-96	TRANSISTOR 2SD774-T-34										
		< RESISTOR >										
R801	1-216-061-00	METAL CHIP	3.3K	5%	1/10W							
△R802	1-249-401-11	CARBON	47	5%	1/4W F		C1302	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA5ES,VA555ES)
R803	1-216-081-00	METAL CHIP	22K	5%	1/10W							
△R804	1-216-349-00	METAL OXIDE	1	5%	1W F		C1303	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA5ES,VA555ES)
△R805	1-216-349-00	METAL OXIDE	1	5%	1W							
△R806	1-249-381-11	CARBON	1	5%	1/4W F		C1401	1-165-319-11	CERAMIC CHIP	0.1uF		50V
△R807	1-249-381-11	CARBON	1	5%	1/4W F		C1402	1-165-319-11	CERAMIC CHIP	0.1uF		50V
△R808	1-249-416-91	CARBON	820	5%	1/4W F		C1403	1-165-319-11	CERAMIC CHIP	0.1uF		50V

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The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

## STR-DA3ES/DA5ES/VA555ES

## DIGITAL

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C1404	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1628	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1405	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1629	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1406	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1630	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1407	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1631	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1408	1-127-719-91	ELECT MELF	220uF	20% 16V	C1632	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1409	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1633	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1410	1-127-719-91	ELECT MELF	220uF	20% 16V	C1634	1-137-434-11	MYLAR	0.0018uF 5%	50V
C1411	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1635	1-137-428-11	MYLAR	180PF 5%	50V
C1412	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1636	1-137-428-11	MYLAR	180PF 5%	50V
C1413	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1637	1-137-428-11	MYLAR	180PF 5%	50V
C1414	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1638	1-137-428-11	MYLAR	180PF 5%	50V
C1415	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1639	1-137-428-11	MYLAR	180PF 5%	50V
C1416	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1640	1-137-428-11	MYLAR	180PF 5%	50V
C1417	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1641	1-137-428-11	MYLAR	180PF 5%	50V
C1419	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1642	1-137-428-11	MYLAR	180PF 5%	50V
C1501	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1643	1-128-839-11	ELECT	33uF 20%	16V
C1502	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1644	1-128-839-11	ELECT	33uF 20%	16V
C1503	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1645	1-128-839-11	ELECT	33uF 20%	16V
C1504	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1646	1-128-839-11	ELECT	33uF 20%	16V
C1505	1-127-719-91	ELECT MELF	220uF	20% 16V	C1647	1-128-839-11	ELECT	33uF 20%	16V
C1506	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1648	1-128-839-11	ELECT	33uF 20%	16V
C1507	1-127-719-91	ELECT MELF	220uF	20% 16V	C1649	1-128-839-11	ELECT	33uF 20%	16V
C1508	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1650	1-128-839-11	ELECT	33uF 20%	16V
C1509	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1651	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1510	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1701	1-127-719-91	ELECT MELF	220uF 20%	16V
C1511	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1702	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1512	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1703	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1513	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1704	1-119-824-11	ELECT MELF	10uF 20%	50V
C1514	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1705	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1515	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1706	1-127-718-91	ELECT MELF	100uF 20%	16V
C1516	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1707	1-137-365-11	MYLAR	0.0015uF 5%	50V
C1517	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1708	1-137-365-11	MYLAR	0.0015uF 5%	50V
C1518	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1709	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1601	1-119-824-11	ELECT MELF	10uF	20% 50V	C1710	1-119-824-11	ELECT MELF	10uF 20%	50V
C1602	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1711	1-128-839-11	ELECT	33uF 20%	16V
C1603	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1712	1-128-839-11	ELECT	33uF 20%	16V
C1604	1-127-719-91	ELECT MELF	220uF	20% 16V	C1713	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1605	1-119-824-11	ELECT MELF	10uF	20% 50V	C1801	1-127-718-91	ELECT MELF	100uF 20%	16V
C1606	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1803	1-127-718-91	ELECT MELF	100uF 20%	16V
C1607	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1805	1-127-718-91	ELECT MELF	100uF 20%	16V
C1608	1-128-846-11	ELECT	330uF	20% 16V	C1807	1-127-718-91	ELECT MELF	100uF 20%	16V
C1609	1-163-021-91	CERAMIC CHIP	0.01uF	10% 50V	C1809	1-131-658-11	ELECT	1000uF 20%	63V
C1610	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1811	1-128-835-91	ELECT	1000uF 20%	10V
C1611	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1813	1-127-718-91	ELECT MELF	100uF 20%	16V
C1612	1-119-824-11	ELECT MELF	10uF	20% 50V	C1815	1-127-718-91	ELECT MELF	100uF 20%	16V
C1613	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1817	1-127-718-91	ELECT MELF	100uF 20%	16V
C1614	1-127-719-91	ELECT MELF	220uF	20% 16V	C1819	1-131-658-11	ELECT	1000uF 20%	63V
C1615	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1821	1-163-235-11	CERAMIC CHIP	22PF 5%	50V
C1616	1-128-846-11	ELECT	330uF	20% 16V	C1822	1-163-235-11	CERAMIC CHIP	22PF 5%	50V
C1617	1-165-319-11	CERAMIC CHIP	0.1uF	50V	C1823	1-163-235-11	CERAMIC CHIP	22PF 5%	50V
C1619	1-128-839-11	ELECT	33uF	20% 16V	C1825	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1620	1-128-839-11	ELECT	33uF	20% 16V	C1901	1-163-017-00	CERAMIC CHIP	0.0047uF 5%	50V
C1621	1-128-839-11	ELECT	33uF	20% 16V	C1902	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1622	1-128-839-11	ELECT	33uF	20% 16V	C1903	1-163-251-11	CERAMIC CHIP	100PF 5%	50V
C1623	1-128-839-11	ELECT	33uF	20% 16V	C1904	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1624	1-128-839-11	ELECT	33uF	20% 16V	C1905	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1625	1-128-839-11	ELECT	33uF	20% 16V	C1906	1-128-840-11	ELECT	47uF 20%	16V
C1626	1-128-839-11	ELECT	33uF	20% 16V	C1907	1-165-319-11	CERAMIC CHIP	0.1uF	50V
C1627	1-137-434-11	MYLAR	0.0018uF 5%	50V					



Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description	Remark
C1908	1-163-031-91	CERAMIC CHIP	0.01uF	50V	CN1803	1-564-320-00	PIN, CONNECTOR 2P	
C2001	1-165-319-11	CERAMIC CHIP	0.1uF	50V	CN2101	1-784-776-11	CONNECTOR, FFC 15P	
C2002	1-165-319-11	CERAMIC CHIP	0.1uF	50V	CN2102	1-784-774-11	CONNECTOR, FFC 13P	
					CN2103	1-784-774-11	CONNECTOR, FFC 13P	
C2003	1-165-319-11	CERAMIC CHIP	0.1uF	50V				
C2004	1-165-319-11	CERAMIC CHIP	0.1uF	50V	CN2104	1-784-774-11	CONNECTOR, FFC 13P	
C2005	1-165-319-11	CERAMIC CHIP	0.1uF	50V	CN2105	1-784-776-11	CONNECTOR, FFC 15P	
C2006	1-165-319-11	CERAMIC CHIP	0.1uF	50V	CN2106	1-784-776-11	CONNECTOR, FFC 15P	
C2007	1-128-840-11	ELECT	47uF	20% 16V	CN2107	1-568-838-11	CONNECTOR, FFC 21P	
C2008	1-165-319-11	CERAMIC CHIP	0.1uF	50V			<DIODE>	
C2009	1-163-259-91	CERAMIC CHIP	220PF	5% 50V	D1101	8-719-988-61	DIODE 1SS355TE-17	
C2010	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1701	8-719-053-18	DIODE 1SR154-400TE-25	
C2011	1-109-982-11	CERAMIC CHIP	1uF	10% 10V	D1801	8-719-053-18	DIODE 1SR154-400TE-25	
C2012	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1803	8-719-053-18	DIODE 1SR154-400TE-25	
					D1804	8-719-053-18	DIODE 1SR154-400TE-25	
C2013	1-165-319-11	CERAMIC CHIP	0.1uF	50V				
C2014	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1805	8-719-053-18	DIODE 1SR154-400TE-25	
C2015	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1806	8-719-053-18	DIODE 1SR154-400TE-25	
C2016	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1812	8-719-988-61	DIODE 1SS355TE-17	
C2017	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1901	8-719-801-78	DIODE 1SS184	
					D1902	8-719-988-61	DIODE 1SS355TE-17	
C2018	1-165-319-11	CERAMIC CHIP	0.1uF	50V				
C2019	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D1903	8-719-988-61	DIODE 1SS355TE-17	
C2101	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D2001	8-719-988-61	DIODE 1SS355TE-17	
C2102	1-165-319-11	CERAMIC CHIP	0.1uF	50V	D2002	8-719-801-78	DIODE 1SS184	
C2103	1-165-319-11	CERAMIC CHIP	0.1uF	50V				
C2109	1-163-275-11	CERAMIC CHIP	0.001uF	5% 50V (VA555ES:AEP)			<FERRITE BEAD>	
C2110	1-119-824-11	ELECT MELF	10uF	20% 50V (VA555ES:AEP)	FB1101	1-469-152-11	FERRITE	0uH
C2111	1-165-319-11	CERAMIC CHIP	0.1uF	50V (VA555ES:AEP)	FB1102	1-469-152-11	FERRITE	0uH
					FB1103	1-469-152-11	FERRITE	0uH
C2112	1-119-824-11	ELECT MELF	10uF	20% 50V (VA555ES:AEP)	FB1104	1-469-152-11	FERRITE	0uH
					FB1105	1-469-152-11	FERRITE	0uH
C2113	1-163-263-11	CERAMIC CHIP	330PF	5% 50V (VA555ES:AEP)	FB1107	1-414-231-22	FERRITE	0uH
					FB1202	1-469-152-11	FERRITE	0uH
C2114	1-163-249-11	CERAMIC CHIP	82PF	5% 50V (VA555ES:AEP)	FB1203	1-414-231-22	FERRITE	0uH
C2115	1-163-243-11	CERAMIC CHIP	47PF	5% 50V (VA555ES:AEP)	FB1301	1-500-245-11	FERRITE	0uH
					FB1402	1-469-152-11	FERRITE	0uH
C2116	1-165-319-11	CERAMIC CHIP	0.1uF	50V (VA555ES:AEP)	FB1502	1-469-152-11	FERRITE	0uH
					FB1503	1-500-245-11	FERRITE	0uH
C2117	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB1601	1-469-152-11	FERRITE	0uH
C2118	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB1602	1-469-152-11	FERRITE	0uH
					FB1603	1-469-152-11	FERRITE	0uH
C2119	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB1604	1-469-152-11	FERRITE	0uH
C2120	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB1701	1-469-152-11	FERRITE	0uH
C2121	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB1901	1-500-245-11	FERRITE	0uH
C2122	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB2001	1-469-152-11	FERRITE	0uH
C2123	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB2101	1-469-152-11	FERRITE	0uH (VA555ES:AEP)
C2124	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB2102	1-500-245-11	FERRITE	0uH
C2125	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB2103	1-500-245-11	FERRITE	0uH
C2126	1-119-820-11	ELECT	1uF	20% 50V	FB2104	1-500-245-11	FERRITE	0uH
C2127	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB2105	1-500-245-11	FERRITE	0uH
C2129	1-165-319-11	CERAMIC CHIP	0.1uF	50V	FB2106	1-500-245-11	FERRITE	0uH
		<CONNECTOR>			FB2107	1-500-245-11	FERRITE	0uH
CN1301	1-568-864-11	CONNECTOR, FFC 21P (DA5ES/VA555ES)			FB2108	1-500-245-11	FERRITE	0uH
CN1601	1-784-927-11	PIN, CONNECTOR 12P			FB2109	1-500-245-11	FERRITE	0uH
CN1602	1-784-921-11	PIN, CONNECTOR 4P			FB2110	1-500-245-11	FERRITE	0uH
CN1701	1-779-799-11	PIN, CONNECTOR 9P						
CN1801	1-779-977-11	PIN, CONNECTOR 6P					<IC>	
					IC1101	8-759-825-15	IC LC89056W-E	
CN1802	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			IC1102	8-759-447-77	IC TC7WH74FU(TE12R)	

# STR-DA3ES/DA5ES/VA555ES

## DIGITAL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC1103	8-759-242-70	IC TC7WU04F(TE12R)		Q1602	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1104	8-759-546-74	IC TC7WH157FU(TE12R)		Q1603	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1201	8-759-698-76	IC CXD9617R		Q1604	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1202	8-759-538-16	IC IDT71V016S15PH-AUTL		Q1605	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1203	8-759-523-84	IC TC74VHC14FT(EL)		Q1606	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1204	8-759-835-63	IC NJM2391DL1-26-TE1		Q1607	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1301	8-759-186-51	IC TC74VHC157F(EL) (DA5ES/VA555ES)		Q1608	8-729-141-26	TRANSISTOR 2SC3622A-LK	
IC1302	8-759-186-51	IC TC74VHC157F(EL) (DA5ES/VA555ES)		Q1609	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC1303	8-759-546-74	IC TC7WH157FU(TE12R) (DA5ES/VA555ES)		Q1801	8-729-140-93	TRANSISTOR 2SB733-34	
IC1401	6-700-705-01	IC CXD9616AR		Q1802	8-729-140-98	TRANSISTOR 2SD773-34	
IC1402	6-700-296-01	IC W24L010AT-120		Q1803	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC1403	6-700-296-01	IC W24L010AT-120		Q1804	8-729-027-43	TRANSISTOR DTC114EKA-T146	
IC1404	8-759-523-84	IC TC74VHC14FT(EL)		Q1805	8-729-140-93	TRANSISTOR 2SB733-34	
IC1405	8-759-835-63	IC NJM2391DL1-26-TE1		Q1806	8-729-140-93	TRANSISTOR 2SB733-34	
IC1501	6-700-705-01	IC CXD9616AR		Q1807	8-729-027-43	TRANSISTOR DTC114EKA-T146	
IC1502	8-759-538-16	IC IDT71V016S15PH-AUTL		Q1808	8-729-140-93	TRANSISTOR 2SB733-34	
IC1503	8-759-523-84	IC TC74VHC14FT(EL)		Q1809	8-729-027-43	TRANSISTOR DTC114EKA-T146	
IC1504	8-759-835-63	IC NJM2391DL1-26-TE1		Q1901	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
IC1601	6-701-086-01	IC PCM1737E-1/2K		Q1902	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
IC1602	8-759-825-12	IC PCM1604Y/2K		Q1903	8-729-027-43	TRANSISTOR DTC114EKA-T146	
IC1603	8-759-711-85	IC NJM4580E-D(T1)		Q2001	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
IC1604	8-759-711-85	IC NJM4580E-D(T1)		Q2002	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
IC1605	8-759-711-85	IC NJM4580E-D(T1)		Q2003	8-729-027-43	TRANSISTOR DTC114EKA-T146	
IC1606	8-759-711-85	IC NJM4580E-D(T1)		Q2101	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
IC1607	8-759-277-63	IC TC7W14FU(TE12R)		Q2102	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
IC1701	8-759-462-08	IC AK5352-VF-E2		Q2103	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
IC1702	8-759-711-85	IC NJM4580E-D(T1)				<RESISTOR>	
IC1703	8-759-711-85	IC NJM4580E-D(T1)					
IC1801	8-759-647-10	IC uPC2933HF		R1101	1-216-073-91	RES-CHIP 10K 5%	1/10W
IC1802	8-759-450-47	IC BA05T		R1102	1-216-073-91	RES-CHIP 10K 5%	1/10W
IC1803	8-759-039-69	IC uPC7805AHF		R1103	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1804	8-759-245-79	IC M5F7905L		R1104	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1805	8-759-647-10	IC uPC2933HF		R1105	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
IC1806	8-759-691-04	IC BA00AST		R1106	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1807	8-759-039-69	IC uPC7805AHF		R1107	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1808	8-759-647-10	IC uPC2933HF		R1108	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1809	8-759-088-08	IC uPC7812AHF		R1109	1-216-033-00	METAL CHIP 220 5%	1/10W
IC1810	8-759-231-53	IC M5F7805L		R1110	1-216-121-11	RES-CHIP 1M 5%	1/10W
IC1901	8-759-666-99	IC TMP87CH447U-1F23		R1111	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1902	8-759-598-06	IC S-80942ANMP-DD6-T2		R1112	1-216-025-11	RES-CHIP 100 5%	1/10W
IC1903	8-759-058-62	IC TC7S08FU (TE85R)		R1113	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2001	6-800-064-01	IC MB91F155-1ES-X100		R1114	1-216-049-11	RES-CHIP 1K 5%	1/10W
IC2002	8-759-641-86	IC BR24C16F-E2		R1115	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2101	8-759-557-36	IC BU1924F-E2 (VA555ES:AEP)		R1116	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2102	8-759-238-47	IC TC74HCT7007AF(EL)		R1118	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2103	8-759-342-19	IC NJU3716M-T2		R1120	1-216-085-91	RES-CHIP 33K 5%	1/10W
IC2104	8-759-238-47	IC TC74HCT7007AF(EL)		R1121	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
IC2105	8-759-238-47	IC TC74HCT7007AF(EL)		R1122	1-216-121-11	RES-CHIP 1M 5%	1/10W
IC2106	8-759-008-37	IC TC74HC4050AFT(EL)		R1123	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2107	8-759-008-37	IC TC74HC4050AFT(EL)		R1201	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2108	8-759-238-47	IC TC74HCT7007AF(EL)		R1202	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2109	8-759-233-44	IC TC74HC595AF(EL)		R1203	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2110	8-759-058-62	IC TC7S08FU (TE85R)		R1204	1-216-025-11	RES-CHIP 100 5%	1/10W
IC2111	8-759-277-63	IC TC7W14FU (TE12R)		R1205	1-216-025-11	RES-CHIP 100 5%	1/10W
		<TRANSISTOR>		R1206	1-216-025-11	RES-CHIP 100 5%	1/10W
Q1601	8-729-141-26	TRANSISTOR 2SC3622A-LK		R1207	1-216-025-11	RES-CHIP 100 5%	1/10W
				R1208	1-216-025-11	RES-CHIP 100 5%	1/10W
				R1209	1-216-025-11	RES-CHIP 100 5%	1/10W

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R1210	1-216-025-11	RES-CHIP	100	5%	1/10W	R1316	1-216-025-11	RES-CHIP	100	5%	1/10W
R1211	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA3ES)
R1213	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1317	1-216-025-11	RES-CHIP	100	5%	1/10W
R1216	1-216-295-91	SHORT 0									(DA3ES)
R1218	1-216-025-11	RES-CHIP	100	5%	1/10W	R1318	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA3ES)
R1219	1-216-295-91	SHORT 0				R1319	1-216-025-11	RES-CHIP	100	5%	1/10W
R1221	1-216-073-91	RES-CHIP	10K	5%	1/10W						(DA3ES)
R1222	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1223	1-216-025-11	RES-CHIP	100	5%	1/10W	R1320	1-216-025-11	RES-CHIP	100	5%	1/10W
R1224	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
						R1321	1-216-025-11	RES-CHIP	100	5%	1/10W
R1225	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
R1226	1-216-025-11	RES-CHIP	100	5%	1/10W	R1322	1-216-025-11	RES-CHIP	100	5%	1/10W
R1227	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
R1228	1-216-025-11	RES-CHIP	100	5%	1/10W	R1323	1-216-025-11	RES-CHIP	100	5%	1/10W
R1229	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
						R1324	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1230	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1231	1-216-025-11	RES-CHIP	100	5%	1/10W	R1325	1-216-025-11	RES-CHIP	100	5%	1/10W
R1232	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
R1233	1-216-025-11	RES-CHIP	100	5%	1/10W	R1326	1-216-025-11	RES-CHIP	100	5%	1/10W
R1234	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
						R1402	1-216-025-11	RES-CHIP	100	5%	1/10W
R1235	1-216-025-11	RES-CHIP	100	5%	1/10W	R1403	1-216-025-11	RES-CHIP	100	5%	1/10W
R1236	1-216-025-11	RES-CHIP	100	5%	1/10W	R1404	1-216-025-11	RES-CHIP	100	5%	1/10W
R1237	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1238	1-216-295-91	SHORT 0				R1405	1-216-025-11	RES-CHIP	100	5%	1/10W
R1239	1-216-025-11	RES-CHIP	100	5%	1/10W	R1406	1-216-025-11	RES-CHIP	100	5%	1/10W
						R1407	1-216-025-11	RES-CHIP	100	5%	1/10W
R1240	1-216-025-11	RES-CHIP	100	5%	1/10W	R1408	1-216-295-91	SHORT 0			
R1241	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1409	1-216-295-91	SHORT 0			
R1242	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R1243	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1410	1-216-025-11	RES-CHIP	100	5%	1/10W
R1244	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1411	1-216-025-11	RES-CHIP	100	5%	1/10W
						R1412	1-216-025-11	RES-CHIP	100	5%	1/10W
R1245	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1413	1-216-025-11	RES-CHIP	100	5%	1/10W
R1301	1-216-025-11	RES-CHIP	100	5%	1/10W	R1414	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1302	1-216-025-11	RES-CHIP	100	5%	1/10W						(DA5ES,VA555ES)
						R1416	1-216-295-91	SHORT0			
R1303	1-216-025-11	RES-CHIP	100	5%	1/10W	R1418	1-216-073-91	RES-CHIP	10K	5%	1/10W
											(DA5ES,VA555ES)
R1304	1-216-025-11	RES-CHIP	100	5%	1/10W	R1419	1-216-025-11	RES-CHIP	100	5%	1/10W
						R1420	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1305	1-216-025-11	RES-CHIP	100	5%	1/10W	R1422	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1306	1-216-025-11	RES-CHIP	100	5%	1/10W	R1423	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1307	1-216-025-11	RES-CHIP	100	5%	1/10W	R1424	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1308	1-216-025-11	RES-CHIP	100	5%	1/10W	R1425	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1309	1-216-025-11	RES-CHIP	100	5%	1/10W	R1426	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1310	1-216-025-11	RES-CHIP	100	5%	1/10W	R1427	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1311	1-216-025-11	RES-CHIP	100	5%	1/10W	R1428	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1312	1-216-025-11	RES-CHIP	100	5%	1/10W	R1429	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1313	1-216-025-11	RES-CHIP	100	5%	1/10W	R1430	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA5ES,VA555ES)
R1314	1-216-025-11	RES-CHIP	100	5%	1/10W	R1431	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA3ES)
R1315	1-216-025-11	RES-CHIP	100	5%	1/10W	R1432	1-216-025-11	RES-CHIP	100	5%	1/10W
											(DA3ES)
						R1433	1-216-025-11	RES-CHIP	100	5%	1/10W
						R1434	1-216-025-11	RES-CHIP	100	5%	1/10W
						R1435	1-216-295-91	SHORT 0			
						R1436	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R1437	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R1438	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R1439	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R1440	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R1501	1-216-025-11	RES-CHIP	100	5%	1/10W

# STR-DA3ES/DA5ES/VA555ES

## DIGITAL

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R1502	1-216-025-11	RES-CHIP	100	5%	1/10W	R1609	1-216-025-11	RES-CHIP	100	5%	1/10W
R1503	1-216-025-11	RES-CHIP	100	5%	1/10W	R1610	1-216-025-11	RES-CHIP	100	5%	1/10W
R1504	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1506	1-216-295-91	SHORT 0				R1611	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
R1507	1-216-295-91	SHORT 0				R1612	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
						R1613	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
R1508	1-216-025-11	RES-CHIP	100	5%	1/10W	R1614	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
R1509	1-216-025-11	RES-CHIP	100	5%	1/10W	R1615	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
R1510	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1511	1-216-025-11	RES-CHIP	100	5%	1/10W	R1616	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
R1512	1-216-025-11	RES-CHIP	100	5%	1/10W	R1617	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
						R1618	1-208-508-11	RES-CHIP	8.2K	2%	1/8W
R1513	1-216-025-11	RES-CHIP	100	5%	1/10W	R1619	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1514	1-216-025-11	RES-CHIP	100	5%	1/10W	R1620	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1515	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1516	1-216-025-11	RES-CHIP	100	5%	1/10W	R1621	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1517	1-216-025-11	RES-CHIP	100	5%	1/10W	R1622	1-216-230-00	RES-CHIP	22K	2%	1/8W
						R1623	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1518	1-216-025-11	RES-CHIP	100	5%	1/10W	R1624	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1520	1-216-295-91	SHORT 0				R1625	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1522	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R1523	1-216-025-11	RES-CHIP	100	5%	1/10W	R1626	1-216-230-00	RES-CHIP	22K	2%	1/8W
R1524	1-216-025-11	RES-CHIP	100	5%	1/10W	R1627	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
						R1628	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
R1525	1-216-025-11	RES-CHIP	100	5%	1/10W	R1629	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
R1526	1-216-025-11	RES-CHIP	100	5%	1/10W	R1630	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
R1527	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1528	1-216-025-11	RES-CHIP	100	5%	1/10W	R1631	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
R1529	1-216-025-11	RES-CHIP	100	5%	1/10W	R1632	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
						R1633	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
R1530	1-216-025-11	RES-CHIP	100	5%	1/10W	R1634	1-216-202-00	RES-CHIP	1.5K	2%	1/8W
R1531	1-216-025-11	RES-CHIP	100	5%	1/10W	R1635	1-216-246-00	RES-CHIP	100K	2%	1/8W
R1533	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1534	1-216-025-11	RES-CHIP	100	5%	1/10W	R1636	1-216-246-00	RES-CHIP	100K	2%	1/8W
R1535	1-216-025-11	RES-CHIP	100	5%	1/10W	R1637	1-216-246-00	RES-CHIP	100K	2%	1/8W
						R1638	1-216-246-00	RES-CHIP	100K	2%	1/8W
R1536	1-216-025-11	RES-CHIP	100	5%	1/10W	R1639	1-216-246-00	RES-CHIP	100K	2%	1/8W
R1537	1-216-025-11	RES-CHIP	100	5%	1/10W	R1640	1-216-246-00	RES-CHIP	100K	2%	1/8W
R1538	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1539	1-216-025-11	RES-CHIP	100	5%	1/10W	R1641	1-216-246-00	RES-CHIP	100K	2%	1/8W
R1540	1-216-025-11	RES-CHIP	100	5%	1/10W	R1642	1-216-246-00	RES-CHIP	100K	2%	1/8W
						R1643	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1541	1-216-025-11	RES-CHIP	100	5%	1/10W	R1644	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1542	1-216-025-11	RES-CHIP	100	5%	1/10W	R1645	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1543	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1544	1-216-025-11	RES-CHIP	100	5%	1/10W	R1646	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1545	1-216-025-11	RES-CHIP	100	5%	1/10W	R1647	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
						R1648	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1546	1-216-025-11	RES-CHIP	100	5%	1/10W	R1649	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1547	1-216-025-11	RES-CHIP	100	5%	1/10W	R1650	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1548	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1550	1-216-025-11	RES-CHIP	100	5%	1/10W	R1651	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1551	1-216-295-91	SHORT 0				R1652	1-259-995-11	CARBON MELF	1K	2%	1/8W
						R1653	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1552	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1654	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1553	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1655	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1554	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R1555	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1656	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1556	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1657	1-259-995-11	CARBON MELF	1K	2%	1/8W
						R1658	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1601	1-216-025-11	RES-CHIP	100	5%	1/10W	R1659	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1602	1-216-025-11	RES-CHIP	100	5%	1/10W	R1660	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1603	1-216-025-11	RES-CHIP	100	5%	1/10W						
R1604	1-216-025-11	RES-CHIP	100	5%	1/10W	R1701	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1605	1-216-025-11	RES-CHIP	100	5%	1/10W	R1702	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
						R1703	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R1606	1-216-025-11	RES-CHIP	100	5%	1/10W	R1704	1-208-474-61	RES-CHIP	330	2%	1/8W
R1607	1-216-025-11	RES-CHIP	100	5%	1/10W	R1705	1-208-474-61	RES-CHIP	330	2%	1/8W
R1608	1-216-025-11	RES-CHIP	100	5%	1/10W						

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R1706	1-208-474-61	RES-CHIP	330	2%	1/8W	R2017	1-216-025-11	RES-CHIP	100	5%	1/10W
R1707	1-208-474-61	RES-CHIP	330	2%	1/8W	R2018	1-216-025-11	RES-CHIP	100	5%	1/10W
R1708	1-208-509-11	RES-CHIP	9.1K	2%	1/8W	R2019	1-216-025-11	RES-CHIP	100	5%	1/10W
R1709	1-208-509-11	RES-CHIP	9.1K	2%	1/8W	R2020	1-216-025-11	RES-CHIP	100	5%	1/10W
R1710	1-208-509-11	RES-CHIP	9.1K	2%	1/8W	R2021	1-216-025-11	RES-CHIP	100	5%	1/10W
R1711	1-208-509-11	RES-CHIP	9.1K	2%	1/8W	R2022	1-216-025-11	RES-CHIP	100	5%	1/10W
R1712	1-208-509-11	RES-CHIP	9.1K	2%	1/8W	R2023	1-216-025-11	RES-CHIP	100	5%	1/10W
R1713	1-208-509-11	RES-CHIP	9.1K	2%	1/8W	R2024	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1714	1-216-230-00	RES-CHIP	22K	2%	1/8W	R2025	1-216-025-11	RES-CHIP	100	5%	1/10W
R1715	1-216-230-00	RES-CHIP	22K	2%	1/8W	R2026	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1716	1-216-238-00	RES-CHIP	47K	2%	1/8W	R2027	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1717	1-216-238-00	RES-CHIP	47K	2%	1/8W	R2028	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1801	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2029	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1802	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R2030	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1804	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2031	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1806	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2032	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1807	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2033	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1809	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2034	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1810	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2035	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1813	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R2036	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1814	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R2037	1-216-073-91	RES-CHIP	10K	5%	1/10W
△R1815	1-217-780-11	FUSIBLE	1	5%	5W	R2038	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1901	1-216-121-11	RES-CHIP	1M	5%	1/10W	R2039	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1902	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2040	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1903	1-216-025-11	RES-CHIP	100	5%	1/10W	R2041	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1904	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2042	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1905	1-216-001-00	METAL CHIP	10	5%	1/10W	R2042	1-216-061-91	RES-CHIP	3.3K	5%	1/10W (DA5ES)
R1906	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2042	1-216-073-91	RES-CHIP	10K	5%	1/10W (VA555ES:AEP)
R1907	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2042	1-216-089-91	RES-CHIP	47K	5%	1/10W (VA555ES:CH,KR)
R1908	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2043	1-216-025-11	RES-CHIP	100	5%	1/10W (VA555ES:E)
R1909	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R2044	1-216-025-11	RES-CHIP	100	5%	1/10W
R1910	1-216-025-11	RES-CHIP	100	5%	1/10W	R2045	1-216-025-11	RES-CHIP	100	5%	1/10W
R1911	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2046	1-216-025-11	RES-CHIP	100	5%	1/10W
R1912	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2047	1-216-025-11	RES-CHIP	100	5%	1/10W
R1913	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2048	1-216-025-11	RES-CHIP	100	5%	1/10W
R1914	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2049	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1915	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2050	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1916	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2051	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1917	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2052	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1918	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2053	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1919	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2054	1-216-025-11	RES-CHIP	100	5%	1/10W
R2001	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R2055	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2002	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R2101	1-216-025-11	RES-CHIP	100	5%	1/10W
R2003	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R2102	1-216-025-11	RES-CHIP	100	5%	1/10W
R2004	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R2103	1-216-025-11	RES-CHIP	100	5%	1/10W
R2005	1-216-025-11	RES-CHIP	100	5%	1/10W	R2104	1-216-025-11	RES-CHIP	100	5%	1/10W
R2006	1-216-025-11	RES-CHIP	100	5%	1/10W	R2105	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (VA555ES:AEP)
R2007	1-216-025-11	RES-CHIP	100	5%	1/10W	R2106	1-216-025-11	RES-CHIP	100	5%	1/10W (VA555ES:AEP)
R2008	1-216-025-11	RES-CHIP	100	5%	1/10W	R2107	1-216-025-11	RES-CHIP	100	5%	1/10W
R2009	1-216-025-11	RES-CHIP	100	5%	1/10W	R2108	1-216-025-11	RES-CHIP	100	5%	1/10W
R2012	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R2013	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R2014	1-216-025-11	RES-CHIP	100	5%	1/10W						
R2015	1-216-025-11	RES-CHIP	100	5%	1/10W						
R2016	1-216-025-11	RES-CHIP	100	5%	1/10W						

The components identified by mark △ Er dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

# STR-DA3ES/DA5ES/VA555ES

<b>DIGITAL</b>	<b>DIGITAL INPUT</b>
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Ref. No.	Part No.	Description	Quantity	Lot %	Remark
R2109	1-216-025-11	RES-CHIP	100	5%	1/10W
R2110	1-216-025-11	RES-CHIP	100	5%	1/10W
R2111	1-216-025-11	RES-CHIP	100	5%	1/10W
R2112	1-216-025-11	RES-CHIP	100	5%	1/10W
R2113	1-216-025-11	RES-CHIP	100	5%	1/10W
R2114	1-216-025-11	RES-CHIP	100	5%	1/10W
R2115	1-216-025-11	RES-CHIP	100	5%	1/10W
R2116	1-216-025-11	RES-CHIP	100	5%	1/10W
R2117	1-216-025-11	RES-CHIP	100	5%	1/10W
R2118	1-216-025-11	RES-CHIP	100	5%	1/10W
R2119	1-216-025-11	RES-CHIP	100	5%	1/10W
R2120	1-216-025-11	RES-CHIP	100	5%	1/10W
R2121	1-216-025-11	RES-CHIP	100	5%	1/10W
R2122	1-216-025-11	RES-CHIP	100	5%	1/10W
R2123	1-216-025-11	RES-CHIP	100	5%	1/10W
R2124	1-216-025-11	RES-CHIP	100	5%	1/10W
R2125	1-216-025-11	RES-CHIP	100	5%	1/10W
R2126	1-216-025-11	RES-CHIP	100	5%	1/10W
R2127	1-216-025-11	RES-CHIP	100	5%	1/10W
R2128	1-216-025-11	RES-CHIP	100	5%	1/10W
R2129	1-216-025-11	RES-CHIP	100	5%	1/10W
R2130	1-216-025-11	RES-CHIP	100	5%	1/10W
R2131	1-216-025-11	RES-CHIP	100	5%	1/10W
R2132	1-216-025-11	RES-CHIP	100	5%	1/10W
R2133	1-216-025-11	RES-CHIP	100	5%	1/10W
R2134	1-216-025-11	RES-CHIP	100	5%	1/10W
R2135	1-216-025-11	RES-CHIP	100	5%	1/10W
R2136	1-216-025-11	RES-CHIP	100	5%	1/10W
R2137	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2138	1-216-025-11	RES-CHIP	100	5%	1/10W
R2139	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2140	1-216-025-11	RES-CHIP	100	5%	1/10W
R2141	1-216-025-11	RES-CHIP	100	5%	1/10W
R2142	1-216-025-11	RES-CHIP	100	5%	1/10W
R2144	1-216-025-11	RES-CHIP	100	5%	1/10W
R2145	1-216-025-11	RES-CHIP	100	5%	1/10W
R2146	1-216-025-11	RES-CHIP	100	5%	1/10W
R2147	1-216-025-11	RES-CHIP	100	5%	1/10W
R2148	1-216-025-11	RES-CHIP	100	5%	1/10W
R2159	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2161	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2162	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2163	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2164	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2165	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2166	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2167	1-216-037-00	METAL CHIP	330	5%	1/10W
<VIBLATOR>					
X1101	1-795-219-21	VIBRATOR, CRYSTAL (24.576MHz)			
X1201	1-795-264-21	VIBRATOR, CERAMIC (13.5MHz)			
X1401	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
X1501	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
X1901	1-767-938-21	VIBRATOR, CERAMIC (7.28MHz)			
X2001	1-795-179-21	VIBRATOR, CERAMIC (16.5MHz)			
X2101	1-781-536-11	VIBRATOR, CRYSTAL (4.33MHz)(VA555ES:AEP)			

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Ref. No.	Part No.	Description	Quantity	Lot %	Remark
A-4476-710-A DIGITAL INPUT BOARD, COMPLETE *****					
<CAPACITOR>					
C1001	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C1002	1-128-858-11	ELECT	22uF	20%	50V
C1003	1-128-858-11	ELECT	22uF	20%	50V
C1004	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C1005	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C1006	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C1007	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C1009	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1011	1-137-658-91	ELECT	1000uF	20%	6.3V
C1012	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1013	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1014	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1015	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1017	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1018	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1019	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1021	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V
C1022	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1023	1-128-840-11	ELECT	47uF	20%	16V
C1024	1-165-319-11	CERAMIC CHIP	0.1uF		50V
<CONNECTOR>					
CN1001	1-784-925-11	PIN, CONNECTOR 10P			
<DIODE>					
D1001	8-719-988-61	DIODE 1SS355TE-17			
D1002	8-719-801-78	DIODE 1SS184			
D1003	8-719-988-61	DIODE 1SS355TE-17			
<FERRITE BEAD>					
FB1001	1-469-152-11	FERRITE	0uH		
FB1002	1-469-152-11	FERRITE	0uH		
<IC>					
IC1001	6-600-000-01	IC GP1FA512RZB (DVD/LD OPTICAL IN)			
IC1002	6-600-000-01	IC GP1FA512RZB (TV/SAT OPTICAL IN)			
IC1003	6-600-000-01	IC GP1FA512RZB (MD/DAT OPTICAL IN)			
IC1004	6-600-001-01	IC GP1FA512TZC (MD/DAT OPTICAL OUT)			
IC1005	6-600-000-01	IC GP1FA512RZB (CD/SACD OPTICAL IN)			
IC1006	8-759-233-64	IC TC74HCU04AF(EL)			
IC1007	8-759-243-84	IC TC74ACT151F			
IC1008	8-759-566-06	IC TC7WH08FU(TE12R)			
<JACK>					
J1002	1-794-434-11	JACK, PIN 2P (DIGITAL IN)			
<RESISTOR>					
R1001	1-216-022-00	METAL CHIP	75	5%	1/10W
R1002	1-216-022-00	METAL CHIP	75	5%	1/10W
R1003	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1004	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1005	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1006	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1007	1-216-115-00	METAL CHIP	560K	5%	1/10W

DISPLAY

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1008	1-216-115-00	METAL CHIP	560K 5% 1/10W			<IC>	
R1009	1-216-025-11	RES-CHIP	100 5% 1/10W	IC101	8-759-459-85	IC NJL63H400A	
R1010	1-216-025-11	RES-CHIP	100 5% 1/10W	IC102	8-759-342-19	IC NJU3716M-T2	
				IC103	8-759-589-67	IC BA6208F-E2	
R1011	1-216-025-11	RES-CHIP	100 5% 1/10W	IC104	8-759-242-70	IC TC7WU04F(Te1 2R) (DA5ES/VA555ES)	
R1012	1-216-025-11	RES-CHIP	100 5% 1/10W			<JUMPER RESISTOR>	
R1013	1-216-025-11	RES-CHIP	100 5% 1/10W	JR110	1-216-295-91	SHORT 0	
R1014	1-216-025-11	RES-CHIP	100 5% 1/10W	JR112	1-216-295-91	SHORT 0	
R1015	1-216-073-91	RES-CHIP	10K 5% 1/10W			<TRANSISTOR>	
R1016	1-216-073-91	RES-CHIP	10K 5% 1/10W	Q101	8-729-801-93	TRANSISTOR 2SD1387-34-TP	(DA5ES/VA555ES)
R1017	1-216-025-11	RES-CHIP	100 5% 1/10W	Q102	8-729-801-93	TRANSISTOR 2SD1387-34-TP	(DA5ES/VA555ES)
*****						<RESISTOR>	
	A-4476-692-A	DISPLAY BOARD,COMPLETE (DA5ES)					
	A-4476-693-A	DISPLAY BOARD,COMPLETE (VA555ES)					
	A-4476-760-A	DISPLAY BOARD,COMPLETE (DA3ES)					
		*****					
		<CAPACITOR>					
C101	1-126-947-11	ELECT	47uF 20% 16V	R101	1-216-025-11	RES-CHIP	100 5% 1/10W
C102	1-126-964-11	ELECT	10uF 20% 50V	R102	1-216-025-11	RES-CHIP	100 5% 1/10W
C103	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R103	1-216-073-91	RES-CHIP	10K 5% 1/10W
C104	1-126-947-11	ELECT	47uF 20% 16V	R104	1-216-025-11	RES-CHIP	100 5% 1/10W
C105	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	R105	1-216-025-11	RES-CHIP	100 5% 1/10W
C106	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	R106	1-216-025-11	RES-CHIP	100 5% 1/10W
C107	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R107	1-216-025-11	RES-CHIP	100 5% 1/10W
C108	1-126-947-11	ELECT	47uF 20% 16V	R108	1-216-025-11	RES-CHIP	100 5% 1/10W
C109	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	R109	1-216-025-11	RES-CHIP	100 5% 1/10W
			(DA5ES,VA555ES)	R110	1-216-025-11	RES-CHIP	100 5% 1/10W
C110	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	R111	1-216-025-11	RES-CHIP	100 5% 1/10W
			(DA5ES,VA555ES)	R112	1-216-025-11	RES-CHIP	100 5% 1/10W
C111	1-126-916-11	ELECT	1000uF 20% 6.3V	R113	1-216-025-11	RES-CHIP	100 5% 1/10W
C112	1-163-009-91	CERAMIC CHIP	0.001uF 10% 50V	R117	1-216-073-91	RES-CHIP	10K 5% 1/10W
				R118	1-216-001-00	METAL CHIP	10 5% 1/10W
		<CONNECTOR>		△R119	1-249-385-11	CARBON	2.2 5% 1/6W F
CNS101	1-784-776-11	CONNECTOR, FFC 15 P		△R120	1-249-385-11	CARBON	2.2 5% 1/6W F
CNS102	1-568-838-11	CONNECTOR, FFC 21 P		R121	1-216-037-00	METAL CHIP	330 5% 1/10W
CNS103	1-770-398-11	HOUSING, CONNECTOR(PC BOARD)5P		R122	1-216-037-00	METAL CHIP	330 5% 1/10W
		<DIODE>		R123	1-216-089-91	RES-CHIP	47K 5% 1/10W
D101	8-719-075-59	DIODE	SELS5B23C-TP15 (DSC)	R124	1-216-049-11	RES-CHIP	1K 5% 1/10W
D102	8-719-075-59	DIODE	SELS5B23C-TP15 (6.1CH)	R125	1-216-049-11	RES-CHIP	1K 5% 1/10W
D103	8-719-075-59	DIODE	SELS5B23C-TP15 (NIGHT MODE)	R126	1-216-037-00	METAL CHIP	330 5% 1/10W
D104	8-719-032-98	DIODE	SEL5820A (DIMMER)	R127	1-216-029-00	METAL CHIP	150 5% 1/10W
D105	8-719-032-98	DIODE	SEL5820A (2ND/3RD ROOM)	R128	1-216-029-00	METAL CHIP	150 5% 1/10W
D106	8-719-032-98	DIODE	SEL5820A (SURROUND)	R129	1-216-037-00	METAL CHIP	330 5% 1/10W
D107	8-719-032-98	DIODE	SEL5820A (LEVEL)	R130	1-216-049-11	RES-CHIP	1K 5% 1/10W
D108	8-719-032-98	DIODE	SEL5820A (NAME)	R131	1-216-298-00	METAL CHIP	2.2 5% 1/10W
D109	8-719-032-98	DIODE	SEL5820A (EQ)			(DA5ES,VA555ES)	
D110	8-719-032-98	DIODE	SEL5820A (SET UP)	R132	1-216-298-00	METAL CHIP	2.2 5% 1/10W
						(DA5ES,VA555ES)	
D111	8-719-075-86	DIODE	SID307BRTP19 (SERCS OUT)	R133	1-216-073-91	RES-CHIP	10K 5% 1/10W
			(DA5ES/VA555ES)	R134	1-216-073-91	RES-CHIP	10K 5% 1/10W
D112	8-719-059-14	DIODE	SID313BP-TP19 (SERCS OUT)	R135	1-216-089-91	RES-CHIP	47K 5% 1/10W
			(DA5ES/VA555ES)	R136	1-216-089-91	RES-CHIP	47K 5% 1/10W
D113	8-719-075-86	DIODE	SID307BRTP19 (SERCS OUT)	R137	1-216-089-91	RES-CHIP	47K 5% 1/10W
			(DA5ES/VA555ES)	R138	1-216-081-00	METAL CHIP	22K 5% 1/10W
D114	8-719-988-61	DIODE	1SS355TE-17 (DA5ES/VA555ES)	R139	1-216-073-91	RES-CHIP	10K 5% 1/10W
D115	8-719-988-61	DIODE	1SS355TE-17 (DA5ES/VA555ES)	R140	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
		<FLUORESCENT INDICATOR TUBE>		R141	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
FL101	1-518-747-11	INDICATOR TUBE,FLUORESCENT		R142	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
				R143	1-216-049-11	RES-CHIP	1K 5% 1/10W

The components identified by mark △ Er dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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# STR-DA3ES/DA5ES/VA555ES

<b>DISPLAY</b>	<b>E-VOL</b>
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Ref. No.	Part No.	Description	Remark
R144	1-216-073-91	RES-CHIP 10K 5%	1/10W
R145	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R146	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R147	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R148	1-216-049-11	RES-CHIP 1K 5%	1/10W
R149	1-216-089-91	RES-CHIP 47K 5%	1/10W
R150	1-216-081-00	METAL CHIP 22K 5%	1/10W
R151	1-216-073-91	RES-CHIP 10K 5%	1/10W
R152	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R153	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R154	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R155	1-216-049-11	RES-CHIP 1K 5%	1/10W
R156	1-216-089-91	RES-CHIP 47K 5%	1/10W
R157	1-216-081-00	METAL CHIP 22K 5%	1/10W
R158	1-216-073-91	RES-CHIP 10K 5%	1/10W
R159	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R160	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R161	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R162	1-216-049-11	RES-CHIP 1K 5%	1/10W
R163	1-216-073-91	RES-CHIP 10K 5%	1/10W
		<VALIABLE RESISTER>	
RV102	1-418-921-11	ENCODER, ROTARY	
		<SWITCH>	
S101	1-771-349-21	SWITCH, KEYBOARD (I/Ⓞ)	
S102	1-771-349-21	SWITCH, KEYBOARD (DISPLAY)	
S103	1-771-349-21	SWITCH, KEYBOARD (DIMMER)	
S104	1-771-349-21	SWITCH, KEYBOARD (NIGHT MODE)	
S105	1-771-349-21	SWITCH, KEYBOARD (FM/AM)	
S106	1-771-349-21	SWITCH, KEYBOARD (PRESET TUNING -)	
S107	1-771-349-21	SWITCH, KEYBOARD (PRESET TUNING +)	
S108	1-771-349-21	SWITCH, KEYBOARD (A.F.D)	
S109	1-771-349-21	SWITCH, KEYBOARD (CINEMA STUDIO EX)	
S110	1-771-349-21	SWITCH, KEYBOARD (DIGITAL CONCERT HALL)	
S111	1-771-349-21	SWITCH, KEYBOARD (MODE -)	
S112	1-771-349-21	SWITCH, KEYBOARD (MODE +)	
S113	1-771-349-21	SWITCH, KEYBOARD (2CH)	
S114	1-771-349-21	SWITCH, KEYBOARD (MULTI 1/2CH ANALOG DIRECT)	
S115	1-771-349-21	SWITCH, KEYBOARD (6.1 CH DECODING)	
S116	1-771-349-21	SWITCH, KEYBOARD (TUNING -)	
S117	1-771-349-21	SWITCH, KEYBOARD (TUNING +)	
S118	1-771-349-21	SWITCH, KEYBOARD (2ND ROOM)	
S119	1-771-349-21	SWITCH, KEYBOARD (ON SCREEN)	
S120	1-771-349-21	SWITCH, KEYBOARD (SURROUND)	
S121	1-771-349-21	SWITCH, KEYBOARD (LIVE)	
S122	1-771-349-21	SWITCH, KEYBOARD (<)	
S123	1-771-349-21	SWITCH, KEYBOARD (>)	
S124	1-771-349-21	SWITCH, KEYBOARD (FM MODE)	
S125	1-771-349-21	SWITCH, KEYBOARD (MEMORY)	
S126	1-771-349-21	SWITCH, KEYBOARD (SLEEP)	
S127	1-771-349-21	SWITCH, KEYBOARD (EQ BANK)	
S128	1-771-349-21	SWITCH, KEYBOARD (NAME)	
S129	1-771-349-21	SWITCH, KEYBOARD (EQ)	
S130	1-771-349-21	SWITCH, KEYBOARD (ENTER)	
S131	1-771-349-21	SWITCH, KEYBOARD (SET UP)	
SW101	1-762-537-11	SWITCH, ROTARY (SPEAKERS) (DA3ES,DA5ES)	
SW101	1-786-151-11	SWITCH, ROTARY (SPEAKERS) (VA555ES)	

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Ref. No.	Part No.	Description	Remark
	A-4476-716-A	E-VOL BOARD, COMPLETE (DA5ES)	
	A-4476-717-A	E-VOL BOARD, COMPLETE (VA555ES)	
	A-4476-761-A	E-VOL BOARD, COMPLETE (DA3ES)	
		*****	
	4-228-836-01	HOLDER, FL TUBE	
		<CAPACITOR>	
C401	1-119-825-41	ELECT 22uF 20%	50V
C402	1-119-825-41	ELECT 22uF 20%	50V
C403	1-119-779-11	ELECT 220uF 20%	10V
C404	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C405	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C406	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C407	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C408	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C409	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C410	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C411	1-119-825-41	ELECT 22uF 20%	50V
C412	1-119-825-41	ELECT 22uF 20%	50V
C413	1-119-779-11	ELECT 220uF 20%	10V
C414	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C415	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C416	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C417	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C418	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C419	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C420	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C421	1-119-825-41	ELECT 22uF 20%	50V
C422	1-119-825-41	ELECT 22uF 20%	50V
C423	1-119-779-11	ELECT 220uF 20%	10V
C424	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C425	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C426	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C427	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C428	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C429	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C430	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C431	1-119-825-41	ELECT 22uF 20%	50V
C432	1-119-825-41	ELECT 22uF 20%	50V
C433	1-119-779-11	ELECT 220uF 20%	10V
C434	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)



Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C440	1-165-319-11	CERAMIC CHIP	0.1uF		50V	CNP402	1-784-774-11	CONNECTOR, FFC 13P			
C441	1-119-825-41	ELECT	22uF	20%	50V	CNP408	1-784-927-11	PIN, CONNECTOR 12P			
C442	1-119-825-41	ELECT	22uF	20%	50V			<DIODE>			
C443	1-119-779-11	ELECT	220uF	20%	10V						
C444	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D401	8-719-988-61	DIODE 1SS355TE-17			
C445	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D402	8-719-988-61	DIODE 1SS355TE-17			
C446	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D403	8-719-988-61	DIODE 1SS355TE-17 (US,CND)			
C447	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D404	8-719-988-61	DIODE 1SS355TE-17			
C448	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D405	8-719-988-61	DIODE 1SS355TE-17			
C449	1-127-718-91	ELECT MELF	100uF	20%	16V	D406	8-719-988-61	DIODE 1SS355TE-17			
C450	1-119-825-41	ELECT	22uF	20%	50V	D407	8-719-988-61	DIODE 1SS355TE-17			
C451	1-119-825-41	ELECT	22uF	20%	50V			<FERRITE BEAD>			
C452	1-119-825-41	ELECT	22uF	20%	50V	FB401	1-469-152-11	FERRITE 0uH			
C453	1-119-779-11	ELECT	220uF	20%	10V			<IC>			
C454	1-119-825-41	ELECT	22uF	20%	50V	IC401	8-759-663-90	IC ADM3222ARU-REEL			
C455	1-119-825-41	ELECT	22uF	20%	50V	IC402	8-759-835-79	IC TC9274N-016			
C456	1-119-825-41	ELECT	22uF	20%	50V	IC403	8-759-835-76	IC TC94A07 P			
C457	1-119-825-41	ELECT	22uF	20%	50V	IC404	8-759-835-76	IC TC94A07 P			
C458	1-119-825-41	ELECT	22uF	20%	50V	IC405	8-759-835-76	IC TC94A07 P			
C459	1-119-825-41	ELECT	22uF	20%	50V	IC406	8-759-835-76	IC TC94A07 P			
C460	1-119-825-41	ELECT	22uF	20%	50V	IC407	8-759-710-59	IC NJM4580D-D			
C461	1-119-825-41	ELECT	22uF	20%	50V	IC408	8-759-710-59	IC NJM4580D-D			
C462	1-119-825-41	ELECT	22uF	20%	50V	IC409	8-759-710-59	IC NJM4580D-D			
C463	1-119-779-11	ELECT	220uF	20%	10V	IC410	8-759-710-59	IC NJM4580D-D			
C464	1-137-505-11	MYLAR	220PF	5%	50V			<JACK>			
C465	1-137-505-11	MYLAR	220PF	5%	50V	J401	1-793-345-21	JACK, PIN 6P (MULTI CHANNEL INPUT2)			
C466	1-137-505-11	MYLAR	220PF	5%	50V	J402	1-784-934-11	JACK, PIN 4P (MULTI CHANNEL INPUT1)			
C467	1-137-505-11	MYLAR	220PF	5%	50V	J403	1-815-520-11	JACK, PIN 4P (MULTI CHANNEL INPUT1)			
C468	1-137-505-11	MYLAR	220PF	5%	50V	J404	1-784-934-11	JACK, PIN 4P (PRE OUT)			
C469	1-137-505-11	MYLAR	220PF	5%	50V	J405	1-815-520-11	JACK, PIN 4P (PRE OUT)			
C470	1-137-505-11	MYLAR	220PF	5%	50V	J406	1-785-298-11	JACK, PIN 1P (PRE OUT)			
C471	1-119-825-41	ELECT	22uF	20%	50V	J407	1-815-737-11	CONNECTOR, (D)SUB 9P (RS232C)			
C472	1-119-825-41	ELECT	22uF	20%	50V			<TRANSISTOR>			
C473	1-119-779-11	ELECT	220uF	20%	10V	Q401	8-729-230-49	TRANSISTOR 2SC2712-YG			
C474	1-137-505-11	MYLAR	220PF	5%	50V	Q402	8-729-230-49	TRANSISTOR 2SC2712-YG			
C475	1-137-505-11	MYLAR	220PF	5%	50V	Q403	8-729-230-49	TRANSISTOR 2SC2712-YG (US,CND)			
C476	1-137-505-11	MYLAR	220PF	5%	50V	Q404	8-729-230-49	TRANSISTOR 2SC2712-YG			
C477	1-119-827-11	ELECT	47uF	20%	50V	Q405	8-729-230-49	TRANSISTOR 2SC2712-YG			
C478	1-119-827-11	ELECT	47uF	20%	50V	Q406	8-729-230-49	TRANSISTOR 2SC2712-YG			
C481	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	Q407	8-729-230-49	TRANSISTOR 2SC2712-YG			
C482	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V			<RESISTOR>			
C483	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R401	1-216-246-00	RES-CHIP 100K 2% 1/8W			
C484	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R402	1-216-013-00	METAL CHIP 33 5% 1/10W			
C485	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R403	1-216-013-00	METAL CHIP 33 5% 1/10W			
C486	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R404	1-216-013-00	METAL CHIP 33 5% 1/10W			
C487	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R405	1-216-013-00	METAL CHIP 33 5% 1/10W			
C488	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R406	1-216-013-00	METAL CHIP 33 5% 1/10W			
C489	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R407	1-216-013-00	METAL CHIP 33 5% 1/10W			
C490	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R408	1-216-013-00	METAL CHIP 33 5% 1/10W			
C491	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R409	1-216-013-00	METAL CHIP 33 5% 1/10W			
C493	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R410	1-216-214-00	RES-CHIP 4.7K 2% 1/8W			
C494	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R411	1-216-246-00	RES-CHIP 100K 2% 1/8W			
C496	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V			<CONNECTOR>			
C497	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	CNP401	1-784-929-11	PIN, CONNECTOR 14P			
C498	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C499	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C500	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						

# STR-DA3ES/DA5ES/VA555ES

## E-VOL

## FUNCTION

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R412	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	△ R486	1-249-393-11	CARBON	10 5% 1/4W F
R413	1-216-174-00	RES-CHIP	100 2% 1/8W	R487	1-216-065-91	RES-CHIP	4.7K 5% 1/10W (DA3ES,DA5ES)
R414	1-216-174-00	RES-CHIP	100 2% 1/8W	R488	1-216-073-91	RES-CHIP	10K 5% 1/10W (DA3ES,DA5ES)
R415	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	△ R489	1-249-393-11	CARBON	10 5% 1/4W (DA3ES,DA5ES)
R416	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	R490	1-216-097-11	RES-CHIP	100K 5% 1/10W
R417	1-216-174-00	RES-CHIP	100 2% 1/8W	R491	1-216-097-11	RES-CHIP	100K 5% 1/10W
R418	1-216-174-00	RES-CHIP	100 2% 1/8W	R492	1-216-097-11	RES-CHIP	100K 5% 1/10W
R419	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	R493	1-216-097-11	RES-CHIP	100K 5% 1/10W
R420	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	R494	1-216-013-00	METAL CHIP	33 5% 1/10W
R421	1-216-246-00	RES-CHIP	100K 2% 1/8W	R495	1-216-013-00	METAL CHIP	33 5% 1/10W
R422	1-216-174-00	RES-CHIP	100 2% 1/8W	△ R496	1-249-393-11	CARBON	10 5% 1/4W F
R423	1-216-174-00	RES-CHIP	100 2% 1/8W	R497	1-216-073-91	RES-CHIP	10K 5% 1/10W
R424	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	R498	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R425	1-216-214-00	RES-CHIP	4.7K 2% 1/8W	△ R499	1-249-393-11	CARBON	10 5% 1/4W F
R426	1-216-174-00	RES-CHIP	100 2% 1/8W	R500	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R427	1-216-174-00	RES-CHIP	100 2% 1/8W	R501	1-216-073-91	RES-CHIP	10K 5% 1/10W
R428	1-259-995-11	CARBON MELF	1K 2% 1/8W	R502	1-249-393-11	CARBON	10 5% 1/4W F
R429	1-259-995-11	CARBON MELF	1K 2% 1/8W	R503	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R430	1-259-995-11	CARBON MELF	1K 2% 1/8W	R504	1-216-073-91	RES-CHIP	10K 5% 1/10W
R431	1-216-246-00	RES-CHIP	100K 2% 1/8W	△ R505	1-249-393-11	CARBON	10 5% 1/4W F
R432	1-259-995-11	CARBON MELF	1K 2% 1/8W	R506	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R433	1-259-995-11	CARBON MELF	1K 2% 1/8W	R507	1-216-073-91	RES-CHIP	10K 5% 1/10W
R434	1-259-995-11	CARBON MELF	1K 2% 1/8W	R508	1-216-295-91	SHORT 0 (VA555ES)	
R435	1-259-995-11	CARBON MELF	1K 2% 1/8W	R509	1-216-295-91	SHORT 0 (VA555ES)	
R436	1-259-995-11	CARBON MELF	1K 2% 1/8W	R510	1-208-571-11	RES-CHIP	68K 2% 1/8W (DA3ES,DA5ES)
R437	1-259-995-11	CARBON MELF	1K 2% 1/8W	R511	1-208-571-11	RES-CHIP	68K 2% 1/8W (DA3ES,DA5ES)
R438	1-259-995-11	CARBON MELF	1K 2% 1/8W	R512	1-208-571-11	RES-CHIP	68K 2% 1/8W
R439	1-259-995-11	CARBON MELF	1K 2% 1/8W	R513	1-208-571-11	RES-CHIP	68K 2% 1/8W
R440	1-259-995-11	CARBON MELF	1K 2% 1/8W	R514	1-208-571-11	RES-CHIP	68K 2% 1/8W
R441	1-216-246-00	RES-CHIP	100K 2% 1/8W	R515	1-208-571-11	RES-CHIP	68K 2% 1/8W
R442	1-259-995-11	CARBON MELF	1K 2% 1/8W	R516	1-208-571-11	RES-CHIP	68K 2% 1/8W
R443	1-259-995-11	CARBON MELF	1K 2% 1/8W	R517	1-208-571-11	RES-CHIP	68K 2% 1/8W
R444	1-259-995-11	CARBON MELF	1K 2% 1/8W			<RELAY>	
R445	1-259-995-11	CARBON MELF	1K 2% 1/8W	RY401	1-515-614-11	RELAY	
R446	1-259-995-11	CARBON MELF	1K 2% 1/8W	RY402	1-515-614-11	RELAY	
R447	1-259-995-11	CARBON MELF	1K 2% 1/8W	RY403	1-515-614-11	RELAY (DA3ES,DA5ES)	
R448	1-259-995-11	CARBON MELF	1K 2% 1/8W	RY404	1-515-614-11	RELAY	
R449	1-259-995-11	CARBON MELF	1K 2% 1/8W	RY405	1-515-614-11	RELAY	
R450	1-259-995-11	CARBON MELF	1K 2% 1/8W	RY406	1-515-614-11	RELAY	
R451	1-216-246-00	RES-CHIP	100K 2% 1/8W	RY407	1-515-614-11	RELAY	
R452	1-216-025-11	RES-CHIP	100 5% 1/10W	*****			
R453	1-216-025-11	RES-CHIP	100 5% 1/10W	1-681-466-11	FUNCTION BOARD		
R454	1-259-995-11	CARBON MELF	1K 2% 1/8W		*****		
R455	1-259-995-11	CARBON MELF	1K 2% 1/8W		<CONNECTOR>		
R456	1-259-995-11	CARBON MELF	1K 2% 1/8W	CNP106	1-784-922-11	PIN, CONNECTOR 5P	
R457	1-259-995-11	CARBON MELF	1K 2% 1/8W			<DIODE>	
R458	1-259-995-11	CARBON MELF	1K 2% 1/8W	D116	8-719-032-98	DIODE SEL5820A (AUDIO SPLIT)	
R459	1-259-995-11	CARBON MELF	1K 2% 1/8W				
R460	1-259-995-11	CARBON MELF	1K 2% 1/8W				
R461	1-216-246-00	RES-CHIP	100K 2% 1/8W				
R462	1-259-995-11	CARBON MELF	1K 2% 1/8W				
R463	1-259-995-11	CARBON MELF	1K 2% 1/8W				
R471	1-260-020-11	CARBON MELF	100K 2% 1/8W				
R481	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R482	1-216-073-91	RES-CHIP	10K 5% 1/10W				
△ R483	1-249-393-11	CARBON	10 5% 1/4W F				
R484	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R485	1-216-073-91	RES-CHIP	10K 5% 1/10W				

The components identified by mark △ Er dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

<b>FUNCTION</b>	<b>HP</b>	<b>INPUT</b>
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		<RESISTOR>					
R165	1-216-029-00	METAL CHIP 150 5%	1/10W	C321	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
R166	1-216-049-11	RES-CHIP 1K 5%	1/10W	C322	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
R167	1-216-057-00	METAL CHIP 2.2K 5%	1/10W	C323	1-128-858-11	ELECT 22uF 20%	50V
		<VARIABLE RESISTOR>		C324	1-128-858-11	ELECT 22uF 20%	50V
RV101	1-418-589-11	ENCODER, ROTARY (FUNCTION)		C325	1-119-825-41	ELECT 22uF 20%	50V
		<SWITCH>		C326	1-119-825-41	ELECT 22uF 20%	50V
S132	1-771-349-21	SWITCH, KEYBOARD (AUDIO SPLIT)		C327	1-128-858-11	ELECT 22uF 20%	50V (DA3ES,DA5ES)
S133	1-771-349-21	SWITCH, KEYBOARD (INPUT MODE)		C328	1-128-858-11	ELECT 22uF 20%	50V (DA3ES,DA5ES)
S134	1-771-349-21	SWITCH, KEYBOARD (MUTING)		C345	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
*****				C346	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
	1-681-470-11	HP BOARD		C347	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
		*****		C348	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
		<CONNECTOR>		C349	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
CNP109	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P		C350	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
CNP111	1-779-978-11	PIN, CONNECTOR 3P		C351	1-119-821-11	ELECT MELF 2.2uF 20%	50V
		<JACK>		C352	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
J101	1-815-313-21	JACK (PHONES)		C353	1-128-832-11	ELECT 220uF 20%	10V
*****				C354	1-125-896-91	MYLAR 0.0091uF 5%	50V
	A-4476-720-A	INPUT BOARD, COMPLETE (DA5ES)		C355	1-136-159-00	MYLAR 0.033uF 5%	50V
	A-4476-721-A	INPUT BOARD, COMPLETE (VA555ES)		C356	1-126-045-11	ELECT 2.2uF 20%	50V
	A-4476-762-A	INPUT BOARD, COMPLETE (DA3ES)		C358	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
		*****		C359	1-163-033-91	CERAMIC CHIP 0.022uF	50V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 I T-3		C360	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
		<CAPACITOR>		C361	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C301	1-119-821-11	ELECT MELF 2.2uF 20%	50V	C362	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C302	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C363	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C303	1-128-832-11	ELECT 220uF 20%	10V	C364	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C304	1-125-896-91	MYLAR 0.0091uF 5%	50V	C365	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C305	1-136-159-00	MYLAR 0.033uF 5%	50V	C366	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C306	1-126-045-11	ELECT 2.2uF 20%	50V	C367	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C308	1-163-001-11	CERAMIC CHIP 220PF 10%	50V	C368	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C309	1-163-033-91	CERAMIC CHIP 0.022uF	50V	C369	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C310	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C370	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C311	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C371	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C312	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C372	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)
C313	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C373	1-128-858-11	ELECT 22uF 20%	50V
C314	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C374	1-128-858-11	ELECT 22uF 20%	50V
C315	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C375	1-119-825-41	ELECT 22uF 20%	50V
C316	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C376	1-119-825-41	ELECT 22uF 20%	50V
C317	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C377	1-128-858-11	ELECT 22uF 20%	50V (DA3ES,DA5ES)
C318	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C378	1-128-858-11	ELECT 22uF 20%	50V (DA3ES,DA5ES)
C319	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C379	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C320	1-163-251-11	CERAMIC CHIP 100PF 5%	50V (VA555ES)	C380	1-163-038-91	CERAMIC CHIP 0.1uF	25V

# STR-DA3ES/DA5ES/VA555ES

## INPUT

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C391	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V (DA5ES)	R314	1-259-995-11	CARBON MELF 1K 2%	1/8W
C392	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V (DA5ES)	R315	1-259-995-11	CARBON MELF 1K 2%	1/8W
C393	1-163-251-11	CERAMIC CHIP	100PF 5% 50V (DA5ES)	R316	1-259-995-11	CARBON MELF 1K 2%	1/8W
C394	1-136-165-00	MYLAR	0.1uF 5% 50V	R317	1-216-206-00	RES-CHIP 2.2K 2%	1/8W
C395	1-136-165-00	MYLAR	0.1uF 5% 50V	R318	1-259-995-11	CARBON MELF 1K 2%	1/8W
C396	1-127-728-51	ELECT MELF	2200uF 20% 25V	R319	1-216-206-00	RES-CHIP 2.2K 2%	1/8W
C397	1-127-728-51	ELECT MELF	2200uF 20% 25V	R320	1-259-995-11	CARBON MELF 1K 2%	1/8W
C398	1-163-038-91	CERAMIC CHIP	0.1uF 25V (DA5ES)	R321	1-259-995-11	CARBON MELF 1K 2%	1/8W
C399	1-119-803-11	ELECT	470uF 20% 25V	R322	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
		<CONNECTOR>		R323	1-216-627-11	METAL CHIP 100 0.5%	1/10W
CNP301	1-784-921-11	PIN, CONNECTOR 4P		R324	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
CNP303	1-779-977-11	PIN, CONNECTOR 6P		R325	1-216-121-11	RES-CHIP 1M 5%	1/10W
CNP304	1-784-928-11	PIN, CONNECTOR 13P		R326	1-216-699-11	METAL CHIP 100K 0.5%	1/10W (VA555ES)
CNP305	1-779-978-11	PIN, CONNECTOR 3P		R326	1-218-756-11	RES-CHIP 150K 2%	1/10W (DA3ES,DA5ES)
CNP306	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P		R327	1-216-246-00	RES-CHIP 100K 2%	1/8W (VA555ES)
CNP307	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P		R327	1-216-250-11	RES-CHIP 150K 2%	1/8W (DA3ES,DA5ES)
		<DIODE>		R328	1-208-583-11	RES-CHIP 220K 2%	1/8W
D301	8-719-988-61	DIODE 1SS355TE-17		R329	1-218-756-11	RES-CHIP 150K 2%	1/10W (DA3ES,DA5ES)
		<IC>		R330	1-218-760-11	RES-CHIP 220K 2%	1/10W (DA3ES,DA5ES)
IC301	8-759-711-85	IC NJM4580E-D(T1)		R331	1-216-013-00	METAL CHIP 33 5%	1/10W
IC302	8-759-835-78	IC TC9274N-015		R332	1-216-013-00	METAL CHIP 33 5%	1/10W
IC303	8-759-835-78	IC TC9274N-015		R333	1-216-013-00	METAL CHIP 33 5%	1/10W
IC304	8-759-582-66	IC TC9273N-013 (DA5ES)		R334	1-216-013-00	METAL CHIP 33 5%	1/10W
IC305	8-759-710-59	IC NJM4580D-D		R335	1-216-013-00	METAL CHIP 33 5%	1/10W (DA5ES)
IC306	8-759-711-85	IC NJM4580E-D(T1)		R336	1-216-013-00	METAL CHIP 33 5%	1/10W (DA5ES)
IC307	8-759-711-85	IC NJM4580E-D(T1) (DA3ES,DA5ES)		R337	1-216-295-91	SHORT 0 (DA3ES,VA555ES)	
IC308	8-759-231-59	IC M5F7815L		R338	1-216-295-91	SHORT 0 (DA3ES,VA555ES)	
IC309	8-759-245-87	IC M5F7915L		R351	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
IC310	8-759-231-58	IC M5F7812L		R352	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
		<JACK>		R353	1-216-697-11	METAL CHIP 82K 0.5%	1/10W
J301	1-784-934-11	JACK, PIN 4P (PHONO, CD/SACD)		R354	1-208-764-11	RES-CHIP 180 2%	1/10W
J302	1-784-934-11	JACK, PIN 4P (MD/DAT)		R355	1-216-673-11	METAL CHIP 8.2K 0.5%	1/10W
J303	1-778-517-11	JACK, PIN 6P (TAPE, TV/SAT)		R356	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
J304	1-778-517-11	JACK, PIN 6P (DVD/LD, VIDEO2)		R357	1-216-627-11	METAL CHIP 100 0.5%	1/10W
J305	1-778-517-11	JACK, PIN 6P (VIDEO1, 2ND ROOM)		R358	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
		<TRANSISTOR>		R359	1-208-774-11	RES-CHIP 470 2%	1/10W
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG		R360	1-259-995-11	CARBON MELF 1K 2%	1/8W
		<RESISTOR>		R361	1-259-995-11	CARBON MELF 1K 2%	1/8W
R301	1-208-453-41	RES-CHIP 4.7K 2%	1/10W	R362	1-259-995-11	CARBON MELF 1K 2%	1/8W
R302	1-216-699-11	METAL CHIP 100K 0.5%	1/10W	R363	1-259-995-11	CARBON MELF 1K 2%	1/8W
R303	1-216-697-11	METAL CHIP 82K 0.5%	1/10W	R364	1-259-995-11	CARBON MELF 1K 2%	1/8W
R304	1-208-764-11	RES-CHIP 180 2%	1/10W	R365	1-259-995-11	CARBON MELF 1K 2%	1/8W
R305	1-216-673-11	METAL CHIP 8.2K 0.5%	1/10W	R366	1-259-995-11	CARBON MELF 1K 2%	1/8W
R306	1-216-699-11	METAL CHIP 100K 0.5%	1/10W	R367	1-216-206-00	RES-CHIP 2.2K 2%	1/8W
R307	1-216-627-11	METAL CHIP 100 0.5%	1/10W	R368	1-259-995-11	CARBON MELF 1K 2%	1/8W
R308	1-216-699-11	METAL CHIP 100K 0.5%	1/10W	R369	1-216-206-00	RES-CHIP 2.2K 2%	1/8W
R309	1-208-774-11	RES-CHIP 470 2%	1/10W	R370	1-259-995-11	CARBON MELF 1K 2%	1/8W
R310	1-259-995-11	CARBON MELF 1K 2%	1/8W	R371	1-259-995-11	CARBON MELF 1K 2%	1/8W
R311	1-259-995-11	CARBON MELF 1K 2%	1/8W	R372	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R312	1-259-995-11	CARBON MELF 1K 2%	1/8W	R373	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R313	1-259-995-11	CARBON MELF 1K 2%	1/8W	R374	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
				R375	1-216-121-11	RES-CHIP 1M 5%	1/10W
				R376	1-216-699-11	METAL CHIP 100K 0.5%	1/10W (VA555ES)

INPUT

LED

M-BUS

M-VOL

S-VIDEO

Ref. No.	Part No.	Description	Remark
R376	1-218-756-11	RES-CHIP 150K	2% 1/10W (DA3ES,DA5ES)
R377	1-216-246-00	RES-CHIP 100K	2% 1/8W (VA555ES)
R377	1-216-250-11	RES-CHIP 150K	2% 1/8W (DA3ES,DA5ES)
R378	1-208-583-11	RES-CHIP 220K	2% 1/8W
R379	1-218-756-11	RES-CHIP 150K	2% 1/10W (DA3ES,DA5ES)
R380	1-218-760-11	RES-CHIP 220K	2% 1/10W (DA3ES,DA5ES)
R392	1-249-393-11	CARBON 10	5% 1/4W F
R393	1-216-073-91	RES-CHIP 10K	5% 1/10W
R394	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
		<RELAY>	
RY301	1-515-614-11	RELAY	
*****			
	1-681-472-11	LED BOARD	*****
		<CAPACITOR>	
C118	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		<CONNECTOR>	
* CN101	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
		<DIODE>	
D118	8-719-084-07	DIODE SEL5E20CTP15	(MULTI CHANNEL DECODING)
		<RESISTOR>	
R115	1-216-022-00	METAL CHIP 75	5% 1/10W
R116	1-216-037-00	METAL CHIP 330	5% 1/10W
*****			
	A-4476-725-A	M-BUS BOARD (DA3ES,DA5ES)	*****
C215	1-119-823-11	ELECT 4.7uF	20% 50V
C216	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C232	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C233	1-164-690-91	CERAMIC CHIP 0.0022uF	5% 50V
C235	1-164-690-91	CERAMIC CHIP 0.0022uF	5% 50V
		<CONNECTOR>	
CNS204	1-568-826-11	CONNECTOR, FFC 7P	
		<IC>	
IC200	8-759-470-63	IC NJM2145M-TE2	
		<JACK>	
J203	1-563-330-11	JACK (CONTROL S MONITOR IN)	
J204	1-563-330-11	JACK (CONTROL S TV/SAT IN)	
J205	1-563-330-11	JACK (CONTROL S DVD/LD OUT)	
J206	1-563-330-11	JACK (CONTROL S VIDEO OUT)	

Ref. No.	Part No.	Description	Remark
		<TRANSISTOR>	
Q200	8-729-027-43	TRANSISTOR	DTC114EKA-T146
Q201	8-729-027-23	TRANSISTOR	DTA114EKA-T146
		<RESISTOR>	
R2002	1-216-073-91	RES-CHIP 10K	5% 1/10W
R208	1-216-049-11	RES-CHIP 1K	5% 1/10W
R209	1-216-049-11	RES-CHIP 1K	5% 1/10W
R210	1-216-049-11	RES-CHIP 1K	5% 1/10W
R211	1-216-049-11	RES-CHIP 1K	5% 1/10W
*****			
	1-681-468-11	M-VOL BOARD	*****
		<CAPACITOR>	
C117	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
		<CONNECTOR>	
CNP105	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P	
		<VALIABLE RESISTOR>	
RV103	1-227-182-11	RES, VAR, CARBON 10K	(MASTER VOLUME)
*****			
	A-4476-700-A	S-VIDEO BOARD, COMPLETE	(DA3ES,DA5ES)
	A-4476-701-A	S-VIDEO BOARD, COMPLETE	(VA555ES)
*****			
		<CAPACITOR>	
C128	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C217	1-163-021-91	CERAMIC CHIP 0.01uF	10% 50V
C218	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C219	1-119-824-11	ELECT MELF 10uF	20% 50V
C220	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C221	1-119-824-11	ELECT MELF 10uF	20% 50V
C222	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C223	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C224	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C225	1-119-824-11	ELECT MELF 10uF	20% 50V
C226	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C227	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C228	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C229	1-119-824-11	ELECT MELF 10uF	20% 50V
C230	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C231	1-128-834-11	ELECT 470uF	20% 10V
C234	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
C236	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C237	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
C239	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C241	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
C242	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
C243	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C244	1-119-824-11	ELECT MELF 10uF	20% 50V
C245	1-165-319-11	CERAMIC CHIP 0.1uF	50V (VA555ES)
C246	1-128-840-11	ELECT 47uF	20% 16V (VA555ES)
C247	1-119-822-11	ELECT 3.3uF	20% 50V (VA555ES)

# STR-DA3ES/DA5ES/VA555ES

## S-VIDEO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C248	1-119-824-11	ELECT MELF	10uF 20% 50V	J209	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO 2)	
C251	1-119-822-11	ELECT	3.3uF 20% 50V (VA555ES)	J210	1-779-801-11	CONNECTOR (ROUND TYPE) (TV/SAT DVD/LD)	
C252	1-119-824-11	ELECT MELF	10uF 20% 50V	J211	1-779-800-11	TERMINAL, S (MONITOR)	
C254	1-165-319-11	CERAMIC CHIP	0.1uF 50V			<INDUCTOR>	
C262	1-119-824-11	ELECT MELF	10uF 20% 50V	L201	1-500-425-11	FERRITE 0uH (VA555ES)	
C263	1-119-824-11	ELECT MELF	10uF 20% 50V	L201	1-216-296-11	SHORT 0 (DA3ES,DA5ES)	
C264	1-163-235-11	CERAMIC CHIP	22PF 5% 50V (DA3ES,DA5ES)	L202	1-500-425-11	FERRITE 0uH (VA555ES)	
C265	1-163-091-00	CERAMIC CHIP	8PF 50V (DA3ES,DA5ES)	L202	1-216-296-11	SHORT 0 (DA3ES,DA5ES)	
C266	1-165-319-11	CERAMIC CHIP	0.1uF 50V	L203	1-500-425-11	FERRITE 0uH (VA555ES)	
C267	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	L203	1-216-296-11	SHORT 0 (DA3ES,DA5ES)	
C268	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V	L204	1-500-425-11	FERRITE 0uH (VA555ES)	
C269	1-165-319-11	CERAMIC CHIP	0.1uF 50V	L204	1-216-296-11	SHORT 0 (DA3ES,DA5ES)	
C270	1-128-840-11	ELECT	47uF 20% 16V	L205	1-408-781-00	INDUCTOR 22uH	
C271	1-163-117-00	CERAMIC CHIP	100PF 5% 50V			<TRANSISTOR>	
C272	1-119-824-11	ELECT MELF	10uF 20% 50V	Q202	8-729-230-49	TRANSISTOR 2SC2712-YG	
C274	1-119-824-11	ELECT MELF	10uF 20% 50V	Q203	8-729-230-49	TRANSISTOR 2SC2712-YG	
C275	1-165-319-11	CERAMIC CHIP	0.1uF 50V			<RESISTOR>	
C276	1-128-840-11	ELECT	47uF 20% 16V				
C2001	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	R212	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2002	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	R213	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2004	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R214	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2006	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	R215	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2008	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R216	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2011	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R217	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2012	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R218	1-216-022-00	METAL CHIP 75 5% 1/10W	
C2013	1-165-319-11	CERAMIC CHIP	0.1uF 50V	R219	1-216-022-00	METAL CHIP 75 5% 1/10W	
		<CONNECTOR>		R220	1-216-022-00	METAL CHIP 75 5% 1/10W	
CNP201	1-770-594-11	CONNECTOR,BOARD TO BOARD 5P (VA555ES)		R221	1-216-022-00	METAL CHIP 75 5% 1/10W	
CNP202	1-784-774-11	CONNECTOR, FFC 13P		R222	1-216-022-00	METAL CHIP 75 5% 1/10W	
CNP204	1-564-708-11	PIN, CONNECTOR 6 P		R223	1-216-022-00	METAL CHIP 75 5% 1/10W	
CNS201	1-568-830-11	CONNECTOR, FFC 11 P		R224	1-216-022-00	METAL CHIP 75 5% 1/10W	
CNS203	1-568-826-11	CONNECTOR, FFC 7P (DA3ES,DA5ES)		R225	1-216-022-00	METAL CHIP 75 5% 1/10W	
		<TRIMMER>		R226	1-216-097-11	RES-CHIP 100K 5% 1/10W	
CT203	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (VCO) (DA3ES,DA5ES)		R227	1-216-097-11	RES-CHIP 100K 5% 1/10W	
CT204	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (VCO)		R228	1-216-097-11	RES-CHIP 100K 5% 1/10W	
		<DIODE>		R229	1-216-097-11	RES-CHIP 100K 5% 1/10W	
D201	8-719-801-78	DIODE 1SS184		R230	1-216-097-11	RES-CHIP 100K 5% 1/10W	
D206	8-719-988-61	DIODE 1SS355TE-17		R231	1-216-001-00	METAL CHIP 10 5% 1/10W	
		<FERRITE BEAD>		R232	1-216-001-00	METAL CHIP 10 5% 1/10W	
FB202	1-469-152-11	FERRITE 0uH (VA555ES)		R233	1-216-001-00	METAL CHIP 10 5% 1/10W	
		<IC>		R235	1-216-105-91	RES-CHIP 220K 5% 1/10W (VA555ES)	
IC202	8-759-536-24	IC NJM-2296M-TE2		R236	1-216-105-91	RES-CHIP 220K 5% 1/10W (VA555ES)	
IC203	6-700-050-01	IC NJM2596M(TE2)		R237	1-216-037-00	METAL CHIP 330 5% 1/10W (VA555ES)	
IC204	8-759-822-05	IC LA7213 (VA555ES)		R238	1-216-037-00	METAL CHIP 330 5% 1/10W (VA555ES)	
IC205	8-759-822-05	IC LA7213 (VA555ES)		R239	1-216-097-11	RES-CHIP 100K 5% 1/10W	
IC209	6-700-367-01	IC MB90089PF-G-238-BND		R245	1-216-063-91	RES-CHIP 3.9K 5% 1/10W	
IC210	8-759-682-76	IC BA7622F-E2-A		R246	1-216-089-91	RES-CHIP 47K 5% 1/10W	
		<JACK>		R247	1-216-089-91	RES-CHIP 47K 5% 1/10W	
J207	1-563-330-11	JACK (CTRL A1II)		R248	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
J208	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO 1)		R249	1-216-089-91	RES-CHIP 47K 5% 1/10W	
				R250	1-216-089-91	RES-CHIP 47K 5% 1/10W	
				R251	1-216-035-00	METAL CHIP 270 5% 1/10W (DA3WS,DA5ES)	
				R252	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
				R254	1-216-097-11	RES-CHIP 100K 5% 1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R255	1-216-049-11	RES-CHIP 1K 5%	1/10W	L751	1-411-906-11	COIL, AIR-CORE	
R278	1-216-022-00	METAL CHIP 75 5%	1/10W			<TRANSISTOR>	
R279	1-216-022-00	METAL CHIP 75 5%	1/10W				
R290	1-216-097-11	RES-CHIP 100K 5%	1/10W	Q598	8-729-230-49	TRANSISTOR 2SC2712-YG	
R296	1-216-295-91	SHORT 0		Q611	8-729-230-49	TRANSISTOR 2SC2712-YG	
R297	1-216-295-91	SHORT 0		Q621	8-729-230-49	TRANSISTOR 2SC2712-YG (DA3ES,DA5ES)	
R298	1-216-295-91	SHORT 0		Q661	8-729-230-49	TRANSISTOR 2SC2712-YG	
R296	1-216-295-91	SHORT 0		Q707	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<PIN>				<RESISTOR>	
TP201	1-784-921-11	PIN, CONNECTOR 4P		△ R511	1-249-389-11	CARBON 4.7 5%	1/4W F
		<VIBLATOR>		△ R512	1-249-393-11	CARBON 10 5%	1/4W F (VA555ES)
X202	1-781-821-21	VIBRATOR, CRYSTAL (14.31818MHz) (DA3ES,DA5ES)		△ R561	1-249-389-11	CARBON 4.7 5%	1/4W F
		*****		△ R562	1-249-393-11	CARBON 10 5%	1/4W F (VA555ES)
	A-4476-706-A	SPTM BOARD, COMPLETE (DA3ES,DA5ES)		△ R584	1-249-393-11	CARBON 10 5%	1/4W F
	A-4476-707-A	SPTM BOARD, COMPLETE (VA555ES)		R585	1-216-073-91	RES-CHIP 10K 5%	1/10W
		*****		R586	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
		<CAPACITOR>		R589	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
C511	1-130-471-00	MYLAR 0.001uF 5% 50V (VA555ES)		△ R616	1-249-393-11	CARBON 10 5%	1/4W F (VA555ES)
C561	1-137-503-11	MYLAR 0.001uF 5% 50V (VA555ES)		△ R631	1-249-389-11	CARBON 4.7 5%	1/4W F
C615	1-137-503-11	MYLAR 0.0001uF 5% 50V (VA555ES)		R632	1-216-073-91	RES-CHIP 10K 5%	1/10W
C665	1-137-503-11	MYLAR 0.0001uF 5% 50V (VA555ES)		R633	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
C715	1-137-503-11	MYLAR 0.0001uF 5% 50V (VA555ES)		△ R634	1-249-393-11	CARBON 10 5%	1/4W F
C765	1-137-503-11	MYLAR 0.0001uF 5% 50V (VA555ES)		R642	1-216-073-91	RES-CHIP 10K 5%	1/10W (DA3ES,DA5ES)
		<CONNECTOR>		△ R644	1-249-393-11	CARBON 10 5%	1/4W F (DA3ES,DA5ES)
CN651	1-785-102-11	PIN, CONNECTOR 4P (DA3ES,DA5ES)		R645	1-216-065-91	RES-CHIP 4.7K 5%	1/10W (DA3ES,DA5ES)
CNP506	1-784-921-11	PIN, CONNECTOR 4P		△ R655	1-249-389-11	CARBON 4.7 5%	1/4W F
CNP507	1-784-922-11	PIN, CONNECTOR 5 P		△ R666	1-249-393-11	CARBON 10 5%	1/4W F (VA555ES)
CNS506	1-784-776-11	CONNECTOR, FFC 15 P		R682	1-216-073-91	RES-CHIP 10K 5%	1/10W
		<DIODE>		R683	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
D540	8-719-988-61	DIODE 1SS355TE-17		△ R684	1-249-393-11	CARBON 10 5%	1/4W F
D541	8-719-988-61	DIODE 1SS355TE-17		△ R716	1-249-393-11	CARBON 10 5%	1/4W F (VA555ES)
D542	8-719-988-61	DIODE 1SS355TE-17		△ R731	1-249-389-11	CARBON 4.7 5%	1/4W F
D543	8-719-988-61	DIODE 1SS355TE-17		R732	1-216-073-91	RES-CHIP 10K 5%	1/10W
D544	8-719-988-61	DIODE 1SS355TE-17 (DA3ES,DA5ES)		R733	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
D545	8-719-988-61	DIODE 1SS355TE-17		△ R734	1-249-393-11	CARBON 10 5%	1/4W F
D598	8-719-988-61	DIODE 1SS355TE-17		△ R766	1-249-393-11	CARBON 10 5%	1/4W F (VA555ES)
D607	8-719-988-61	DIODE 1SS355TE-17		△ R781	1-249-389-11	CARBON 4.7 5%	1/4W F
D657	8-719-988-61	DIODE 1SS355TE-17				<RELAY>	
D667	8-719-988-61	DIODE 1SS355TE-17 (DA3ES,DA5ES)		RY503	1-515-920-11	RELAY (24V)	
D707	8-719-988-61	DIODE 1SS355TE-17		RY601	1-515-920-11	RELAY (24V)	
		<COIL>		RY651	1-515-920-11	RELAY (24V)	
L501	1-419-666-11	COIL, AIR-CORE		RY661	1-515-920-11	RELAY (24V) (DA3ES,DA5ES)	
L551	1-411-906-11	COIL, AIR-CORE		RY702	1-515-920-11	RELAY (24V)	
L601	1-411-906-11	COIL, AIR-CORE				*****	
L651	1-419-666-11	COIL, AIR-CORE				A-4727-021-A	SUB DSP BOARD,COMPLETE (DA5ES/VA555ES)
L701	1-419-666-11	COIL, AIR-CORE					*****
		<CAPACITOR>		C9001	1-165-319-11	CERAMIC CHIP 0.1uF	50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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# STR-DA3ES/DA5ES/VA555ES

SUB DSP

VIDEO 3

Ref. No.	Part No.	Description	Remark
C9002	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9003	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9004	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9005	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9006	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9007	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9008	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9009	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9010	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9011	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9012	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9013	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9014	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9015	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9016	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9017	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9018	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9019	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9020	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9021	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9022	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9023	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9024	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9025	1-130-494-11	MYLAR 0.082uF	5% 50V
C9026	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9027	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9028	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C9029	1-119-825-11	ELECT 22uF	20% 25V
C9030	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9031	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9032	1-119-800-11	ELECT 100uF	20% 10V
C9033	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9034	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9035	1-119-800-11	ELECT 100uF	20% 10V
C9036	1-119-800-11	ELECT 100uF	20% 10V
C9037	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9038	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C9039	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
<CONNECTOR>			
CN9002	1-568-864-11	CONNECTOR, FFC 21 P	
<IC>			
IC9001	6-700-296-01	IC W24L010AT-120	
IC9002	8-759-475-47	IC TC74LCX244FT(EL)	
IC9003	6-800-642-01	IC XCA56367PV150	
IC9004	6-700-296-01	IC W24L010AT-120	
IC9005	8-759-475-47	IC TC74LCX244FT(EL)	
IC9006	6-700-296-01	IC W24L010AT-120	
IC9007	8-759-196-96	IC TC7SH08FU	
IC9008	8-759-832-05	IC BA18BC0FP-E2	
IC9009	8-759-642-23	IC MBM29LV400BC-90PFTN	
IC9010	8-759-460-72	IC BA033FP-E2	
IC9011	8-759-271-88	IC TC7SHU04FU-TE85R	
IC9012	6-700-267-01	IC TC7WH245FU(TE12R)	
IC9013	6-700-267-01	IC TC7WH245FU(TE12R)	
<INDUCTOR>			
L9001	1-410-993-42	INDUCTOR 1uH	

Ref. No.	Part No.	Description	Remark
L9002	1-469-869-21	FERRITE	0uH
<RESISTOR>			
R9001	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9002	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9003	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9004	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9005	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9006	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9007	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9008	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9009	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9010	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9011	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9012	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9013	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9014	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9015	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9016	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9017	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9018	1-216-121-11	RES-CHIP	1M 5% 1/10W
R9019	1-216-025-11	RES-CHIP	100 5% 1/10W
R9020	1-216-025-11	RES-CHIP	100 5% 1/10W
R9021	1-216-025-11	RES-CHIP	100 5% 1/10W
R9022	1-216-025-11	RES-CHIP	100 5% 1/10W
R9023	1-216-025-11	RES-CHIP	100 5% 1/10W
R9024	1-216-025-11	RES-CHIP	100 5% 1/10W
R9025	1-216-025-11	RES-CHIP	100 5% 1/10W
R9026	1-216-025-11	RES-CHIP	100 5% 1/10W
R9027	1-216-025-11	RES-CHIP	100 5% 1/10W
R9028	1-216-025-11	RES-CHIP	100 5% 1/10W
R9029	1-216-025-11	RES-CHIP	100 5% 1/10W
R9030	1-216-025-11	RES-CHIP	100 5% 1/10W
R9031	1-216-025-11	RES-CHIP	100 5% 1/10W
R9032	1-216-025-11	RES-CHIP	100 5% 1/10W
R9033	1-216-025-11	RES-CHIP	100 5% 1/10W
R9034	1-216-025-11	RES-CHIP	100 5% 1/10W
R9035	1-216-025-11	RES-CHIP	100 5% 1/10W
R9036	1-216-025-11	RES-CHIP	100 5% 1/10W
R9037	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9038	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9039	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9040	1-216-025-11	RES-CHIP	10K 5% 1/10W
R9041	1-216-033-00	METAL CHIP	220 5% 1/10W
<TERMINAL BOARD>			
TM501	1-694-837-11	TERMINAL BOARD (SP) (SURROUND, FRONT)	
TM601	1-694-791-11	TERMINAL BOARD (SP) (SURR BACK, CENTER)	
<VIBLATOR>			
X9001	1-781-088-21	VIBRATOR, CERAMIC (20MHz)	
*****			
	1-681-467-11	VIDEO 3 BOARD	
*****			
<CAPACITOR>			
C113	1-163-009-91	CERAMIC CHIP 0.001uF	10% 50V
C116	1-163-009-91	CERAMIC CHIP 0.001uF	10% 50V



Ref. No.	Part No.	Description	Remark
		<CONNECTOR>	
CNP107	1-564-711-11	PIN, CONNECTOR 9P	
		<JACK>	
J102	1-764-190-21	JACK, PIN 3P (VIDEO 3 INPUT)	
		<RESISTOR>	
R168	1-216-022-00	METAL CHIP 75 5% 1/10W	
R169	1-216-022-00	METAL CHIP 75 5% 1/10W	
R170	1-216-022-00	METAL CHIP 75 5% 1/10W	
R171	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R172	1-216-049-11	RES-CHIP 1K 5% 1/10W	
*****			
	1-681-462-11	VOL SEL BOARD(VA555ES:E) *****	
	1-533-399-31	HOLDER, FUSE	
		<CONNECTOR>	
CN901	1-568-106-11	PIN, CONNECTOR 4P	
CNP905	1-568-106-11	PIN, CONNECTOR 4P	
		<FUSE>	
△ F904	1-532-465-51	FUSE T3.15AL, 250V	
		<SWITCH>	
△ S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)	
*****			
		MISCELLANEOUS *****	
33	1-773-162-11	WIRE (FLAT TYPE) (21 CORE)	
34	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
△ 71	1-551-631-22	CORD, POWER (VA555ES:AEP,E)	
△ 71	1-559-479-11	CORD, POWER (DA3ES)	
△ 71	1-757-130-11	CORD, POWER (VA555ES:CH)	
△ 71	1-769-079-21	CORD, POWER (VA555ES:KR)	
△ 71	1-823-512-11	CORD, POWER (DA5ES/VA555ES:E)	
△ 72	1-569-008-21	ADAPTOR, CONVERSION 2P (VA555ES:E)	
77	1-769-937-11	WIRE (FLAT TYPE) (11 CORE)	
78	1-769-971-11	WIRE (FLAT TYPE) (13 CORE)	
79	1-769-975-11	WIRE (FLAT TYPE) (13 CORE)	
80	1-773-011-11	WIRE (FLAT TYPE) (15 CORE) (VA555ES:KR)	
80	1-823-582-11	WIRE (FLAT TYPE) (15 CORE) (EXCEPT VA555ES:KR)	
81	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
82	1-773-141-11	WIRE (FLAT TYPE) (21 CORE)	
84	1-769-879-11	WIRE (FLAT TYPE) (7 CORE) (DA3ES,DA5ES)	
△ T901	1-437-270-11	TRANSFORMER, POWER (DA5ES:US)	
△ T901	1-437-271-11	TRANSFORMER, POWER (DA5ES:CND)	
△ T901	1-437-273-11	TRANSFORMER, POWER (VA555ES:AEP,E)	
△ T901	1-437-274-11	TRANSFORMER, POWER (VA555ES:CH, KR)	
△ T901	1-437-276-11	TRANSFORMER, POWER (DA3ES:US)	
△ T901	1-437-277-11	TRANSFORMER, POWER (DA3ES:CND)	
TU301	1-693-539-21	TUNER (DA3ES,DA5ES,VA555ES:E)	
TU301	1-693-540-21	TUNER (VA555ES:AEP,CH, KR)	
*****			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES *****	
	1-476-607-21	REMOTE COMMANDER (RM-PP505L) (DA3ES)	
	1-476-644-11	COMMANDER, STANDARD (RM-US105) ( DA5ES)	
	1-476-646-11	REMOTE COMMANDER (RM-LJ305) (DA5ES/VA555ES)	
	1-501-374-11	ANTENNA, LOOP(AM)	
	1-501-594-11	ANTENNA (FM) (VA555ES:AEP,CH)	
	1-501-721-11	ANTENNA (LOOP)	
△	1-506-411-21	ADAPTOR, AC PLUG 3P-2P (DA3ES)	
△	1-569-008-21	ADAPTOR, CONVERSION 2P(VA555ES:E)	
	1-777-172-11	CORD, CONNECTION (DA3ES,DA5ES)	
	1-777-560-11	CORD, AVC CONNECTION (DA3ES,DA5ES)	
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR) (DA3ES,DA5ES,VA555ES:E, KR)	
	4-210-990-01	LID, BATTERY CASE (FOR RM-LJ305) (DA5ES,VA555ES)	
	4-228-696-01	LID, BATTERY CASE (FOR RM-US105)(DA5ES)	
	4-235-282-11	MANUAL, INSTRUCTION (ENGLISH) (DA3ES,DA5ES)	
	4-235-282-21	MANUAL, INSTRUCTION (FRENCH) (DA3ES:CND,DA5ES:CND)	
	4-235-283-11	MANUAL, INSTRUCTION (ENGLISH) (VA555ES)	
	4-235-283-21	MANUAL, INSTRUCTION (FRENCH, SPANISH) (VA555ES:AEP,E)	
	4-235-283-31	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (VA555ES:E)	
	4-235-283-41	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (VA555ES:CH)	
	4-235-283-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (VA555ES:AEP)	
	4-235-283-61	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE) (VA555ES:AEP)	
	4-236-328-11	MANUAL, INSTRUCTION (RM-PP505L) (ENGLISH) (DA3ES)	
	4-236-328-21	MANUAL, INSTRUCTION (RM-PP505L) (FRENCH) (DA3ES:CND)	
	4-236-337-01	LID, BATTERY CASE (FOR RM-PP505L)(DA3ES)	
	4-237-333-11	MANUAL (3CHIP DSP),INSTRUCTION (ENGLISH) (DA3ES,DA5ES)	
	4-237-333-21	MANUAL (3CHIP DSP),INSTRUCTION (FRENCH) (DA3ES:CND,DA5ES:CND)	
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The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

