

STR-DE495P/K750P

SERVICE MANUAL

Ver 1.1 2004. 08



Photo : STR-K750P

- STR-DE495P/K750P are the tuner and the amplifier section in HT-DDW750.

US Model

Canadian Model

STR-K750P

AEP Model

UK Model

STR-DE495P

E Model

Australian Model

STR-K750P

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SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 40 – 20,000 Hz; rated 90 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milliwatts to rated output (Models of area code U only).

Amplifier section

POWER OUTPUT

Models of area code U, CA

Rated Power Output at Stereo Mode
(8 ohms 40 Hz – 20 kHz, THD 0.7 %)
STR-K750P: 90 W + 90 W

Reference Power Output

(8 ohms 1 kHz, THD 0.7 %)
STR-K750P: FRONT¹⁾: 100 W/ch
CENTER¹⁾: 100 W
SURR¹⁾: 100 W/ch

Models of area code CEL,CEK

Rated Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
STR-DE495P: 80 W + 80 W²⁾

Reference Power Output²⁾

(8 ohms 1 kHz, THD 0.7 %)
STR-DE495P: FRONT¹⁾: 80 W/ch
CENTER¹⁾: 80 W
SURR¹⁾: 80 W/ch

Models of area code MX

Rated Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
STR-K750P: 90 W + 90 W

Reference Power Output

(8 ohms 1 kHz, THD 0.7 %)
STR-K750P: FRONT¹⁾: 90 W/ch
CENTER¹⁾: 90 W
SURR¹⁾: 90 W/ch

Models of other area code

Rated Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
STR-K750P: 90 W + 90 W²⁾

Reference Power Output²⁾

(8 ohms 1 kHz, THD 0.7 %)
STR-K750P: FRONT¹⁾: 90 W/ch
CENTER¹⁾: 90 W
SURR¹⁾: 90 W/ch

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

2) Measured under the following conditions:

Area code	Power requirements
E2/E3	120/220/240 V AC, 50/60 Hz
SP, CEL, CEK	230 V AC, 50 Hz

Frequency response

CD, MD/TAPE, DVD, 10 Hz – 50 kHz
VIDEO 1, 2 +0.5/-2 dB (with sound field and tone bypassed)

Inputs (Analog)

CD, MD/TAPE, DVD, Sensitivity: 500 mV
VIDEO 1, 2 Impedance: 50 kilohms
S/N³⁾: 96 dB
(A, 500 mV⁴⁾)

3) INPUT SHORT (with sound field and tone bypassed).

4) Weighted network, input level.

— Continued on next page —

FM STEREO FM-AM RECEIVER

9-877-046-02

2004H16-1

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Sony Corporation

Audio Group

Published by Sony Engineering Corporation

SONY®

Inputs (Digital)	
DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
VIDEO 2 (Optical)	Sensitivity: – Impedance: – S/N: 100 dB (A, 20 kHz LPF)

Outputs	
MD/TAPE (OUT), VIDEO 1 (AUDIO OUT)	Voltage: 500 mV Impedance: 10 kilohms
SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms

Tone	
Gain levels:	±6 dB, 1 dB step

FM tuner section	
Tuning range	87.5 - 108.0 MHz

Antenna terminals	75 ohms, unbalanced
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Intermediate Frequency	10.7 MHz
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Sensitivity	
Mono:	18.3 dBf, 2.2 µV/75 ohms
Stereo:	38.3 dBf, 22.5 µV/75 ohms

Usable sensitivity	
S/N	11.2 dBf, 1 µV/75 ohms
Mono:	76 dB
Stereo:	70 dB

Harmonic distortion at 1 kHz

Mono:	0.3%
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

Models of area code U, CA

With 10-kHz tuning scale: 530 – 1710 kHz⁵⁾
With 9-kHz tuning scale: 531 – 1710 kHz⁵⁾

Models of area code E2/E3

With 10-kHz tuning scale: 530 – 1610 kHz⁵⁾
With 9-kHz tuning scale: 531 – 1602 kHz⁵⁾

Models of area code CEL, CEK, SP, AU

With 9-kHz tuning scale: 531 – 1602 kHz

Models of area code MX

With 10-kHz tuning scale: 530 – 1610 kHz

Antenna Loop antenna

Intermediate Frequency 450 kHz

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

5) 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 PRESET TUNING + and press **L/**. 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
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Outputs

Video:	1 Vp-p, 75 ohms
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General

Power requirements

Area code	Power requirements
U, CA, MX	120 V AC, 60 Hz
CEL, CEK	230 V AC, 50/60 Hz
SP	220 – 230 V AC, 50/60 Hz
E2/E3	120/220/240 V AC, 50/60 Hz
AU	240 V AC, 50Hz

Power consumption

Area code	Power consumption
U, MX	185 W
CA	270 VA
CEL, CEK, SP, AU	180 W
E2/E3	190 W

Power consumption (during standby mode)

0.3 W

Dimensions 430 × 145 × 298 mm
(16 7/8 × 5 6/8 × 11 6/8 inches) including projecting parts and controls

Mass (Approx.) 7.2 kg (15 lb 14 oz)

Design and specifications are subject to change without notice.

- Abbreviation

CA	: Canadian model.
CEL	: AEP model.
CEK	: UK model.
SP	: Singapore model. (Malaysia model included.)
MX	: Mexican model.
AU	: Australian model

SAFETY CHECK-OUT

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)

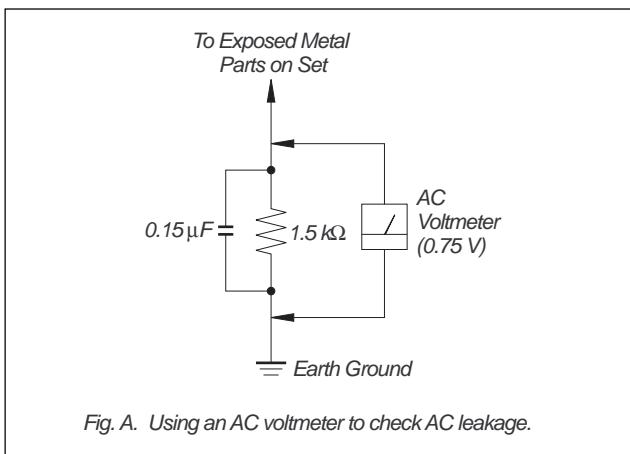


Fig. A. Using an AC voltmeter to check AC leakage.

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.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

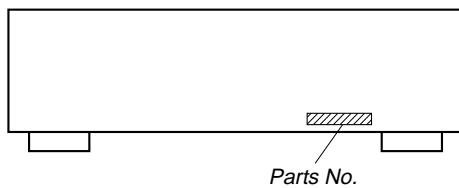
SAFETY-RELATED COMPONENT WARNING!!

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 SUPPÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION
— BACK PANEL —

MODEL	PARTS No.
US model	4-244-031-0□
Canadian model	4-244-031-1□
Australian model	4-244-031-2□
Singapore model	4-244-031-3□
E	4-244-031-4□
AEP model	4-244-031-5□
UK model	4-244-031-6□
Mexican model	4-244-031-7□

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SECTION 1

GENERAL

This section is extracted
from instruction manual.

ALPHABETICAL ORDER

A - L

SURROUND (button/indicator) **20**
(EXCEPT US, Canadian model)
A. F. D (button/indicator) **20**
(US, Canadian model)
(22–24)
CD **9** (20)
DIMMER **3** (21)
DISPLAY **2** (21, 31, 46)
Display **11** (21)
DVD **7** (20)
ENTER **15** (33, 35)
FM MODE **24** (29)
INPUT MODE **13** (20)
IR (receptor) **4** (36, 46)

M - O

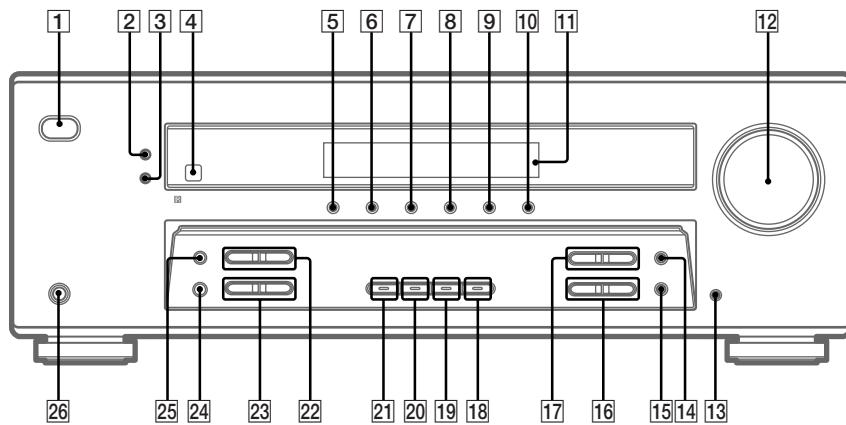
MAIN MENU **14** (15, 26, 27, 33,
34, 51)
MASTER VOLUME **12** (18, 20,
44)
MD/TAPE **8** (20)
MEMORY **25** (28, 30)
MENU +/- **16** (15, 26, 27, 33, 34,
51)
MENU </> **17** (15, 26, 27, 33, 34,
51)
MOVIE (button/indicator) **19** (23,
45)
MUSIC (button/indicator) **18** (23,
24, 45)

P - Z

PHONES (jack) **26** (20, 25, 45)
PRESET TUNING +/- **22** (30, 48)
TUNER FM/AM **10** (20, 29, 30,
33)
TUNING +/- **23** (29)
VIDEO 1 **5** (20)
VIDEO 2 **6** (20)

NUMBERS AND SYMBOLS

2CH (button/indicator) **21** (22, 24,
27)
I/O (power) **1** (14, 19, 27, 28,
35, 48)



SECTION 2 TEST MODE

FACTORY PRESET MODE

- * All preset contents are reset to the default setting.
- * Procedure:
While depressing the [FM MODE] and the [PRESET TUNING+] buttons simultaneously, press the [I/O] button again. The message "FACTORY" appears and the present contents are reset to the default values.

AM CHANNEL STEP 9 KHZ/10 KHZ

SELECTION MODE

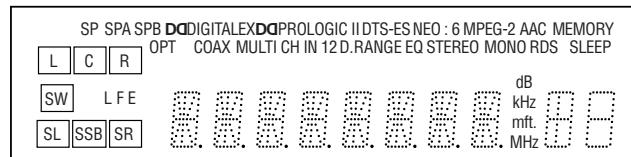
- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
- * Procedure:
Set the FUNCTION to AM. Turn off the main power.
While depressing the [TUNING+] button or the [PRESET TUNING+] button, press the [I/O] button to turn on the main power. Either the message "9 k STEP" or "10 k STEP" appears. Select the desired step.
- * For US/Canadian/E model only

SPEAKER SIZE SELECTION MODE

- * Either Normal Speaker or Micro Satellite Speaker can be selected.
- * Procedure:
While depressing the [MAIN MENU] button, press the [I/O] button to turn the main power.
Either the message "NORM. SP." or "MICRO SP." is displayed. Select the desired speaker size.

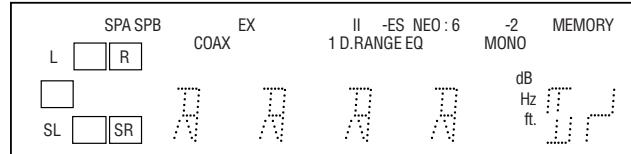
FLUORESCENT INDICATOR TUBE TEST MODE

- * 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:
While depressing the [FM MODE] and the [MD/TAPE] buttons simultaneously, press the [I/O] button to turn on the main power.
1. All segments turn on.



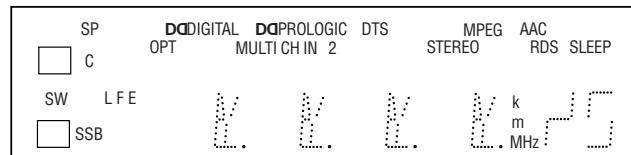
[2CH], [SURROUND]^{*)}, [MOVIE] and [MUSIC] LED turn on.

2. Press the [VIDEO] button, confirm display.



[2CH] and [MOVIE] LED turn on.

3. Press the [VIDEO] button, confirm display



[SURROUND]^{*)} and [MUSIC] LED turn on.

4. Press the [VIDEO1] button, All segments and all LEDs turn off.
5. Every pressing of the [VIDEO1] button turns on each segment and LED one after another in the same order.
(Not only the [VIDEO1] button, but also the other buttons such as [VIDEO2], [DVD], [MD/TAPE], [CD] and [TUNER FM/AM] can be used.)

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:
While depressing the [2CH] button, press the [I/O] button to turn on the main power.
The message "SF. CLR." appears and initialization is performed.

SOFTWARE VERSION DISPLAY MODE

- * The software version is displayed.
- * Procedure:
While depressing the [FM MODE] and the [DVD] buttons simultaneously, press the [I/O] button to turn on the main power. The model name, destination and the software version are displayed.

KEY CHECK MODE

- * Button check
- * Procedure:
While depressing the [MUSIC] and the [TUNING-] buttons simultaneously, press the power [I/O] button to turn on the main power.
"REST 25" appears.
Every pressing of any button other than [I/O] counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.

AUTOBETICAL MODE

- * This mode is installed in the Europe models only. When this mode is used, the receiver scans the broadcasts that can be received by the tuner, and sets up the broadcasts. Be sure to start scanning after connecting the antenna.
- * Procedure:
 1. Check that the antenna is connected.
 2. Press the [I/O] button to turn on the power while pressing the [MEMORY] button.
 3. The message appears and the receiver starts scanning.

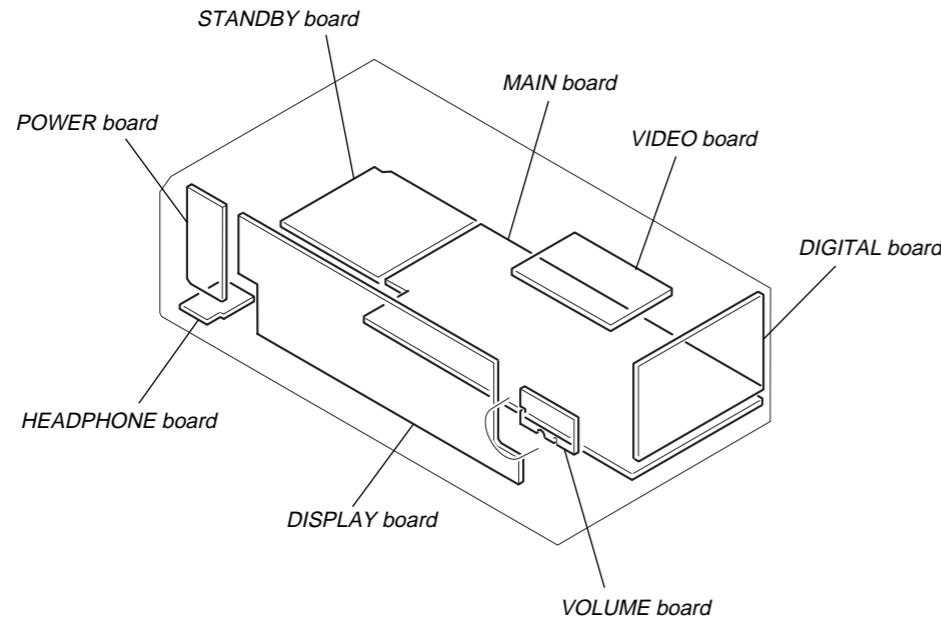
COMMAND MODE SELECTION MODE

- * The command mode (AV1 or AV2) of the remote commander can be selected.
- * Procedure:
 1. While depressing the [ENTER] button, press the [I/O] button to turn on the main power.
 2. The message "C.MODE.AV 1" or "C.MODE.AV 2" appears for a moment. Select the desired mode.

^{*)} A. F. D. is used in US and Canadian models.

SECTION 3 DIAGRAMS

3-1. Circuit Board 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 μF unless otherwise noted. p : pF . 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

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

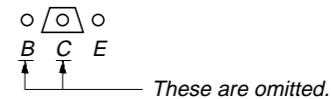
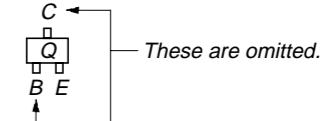
Note:
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line.
- : B- Line.
- 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 $10\text{ M}\Omega$).
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)
 : DVD (DIGITAL)
- Abbreviation
CND : Canadian model
SP : Singapore model (Malaysia model included)
AUS : Australian model

For printed wiring boards.

Note:

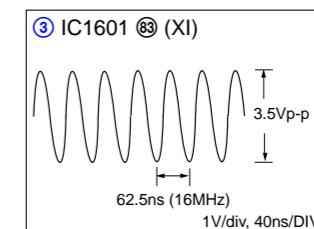
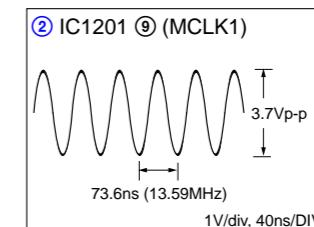
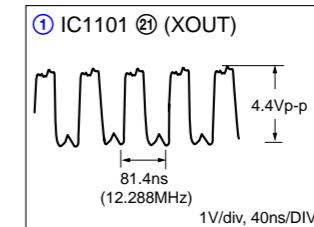
- : parts extracted from the component side.
- : Through hole.
- \triangle : internal component.
- : Pattern from the side which enables seeing.



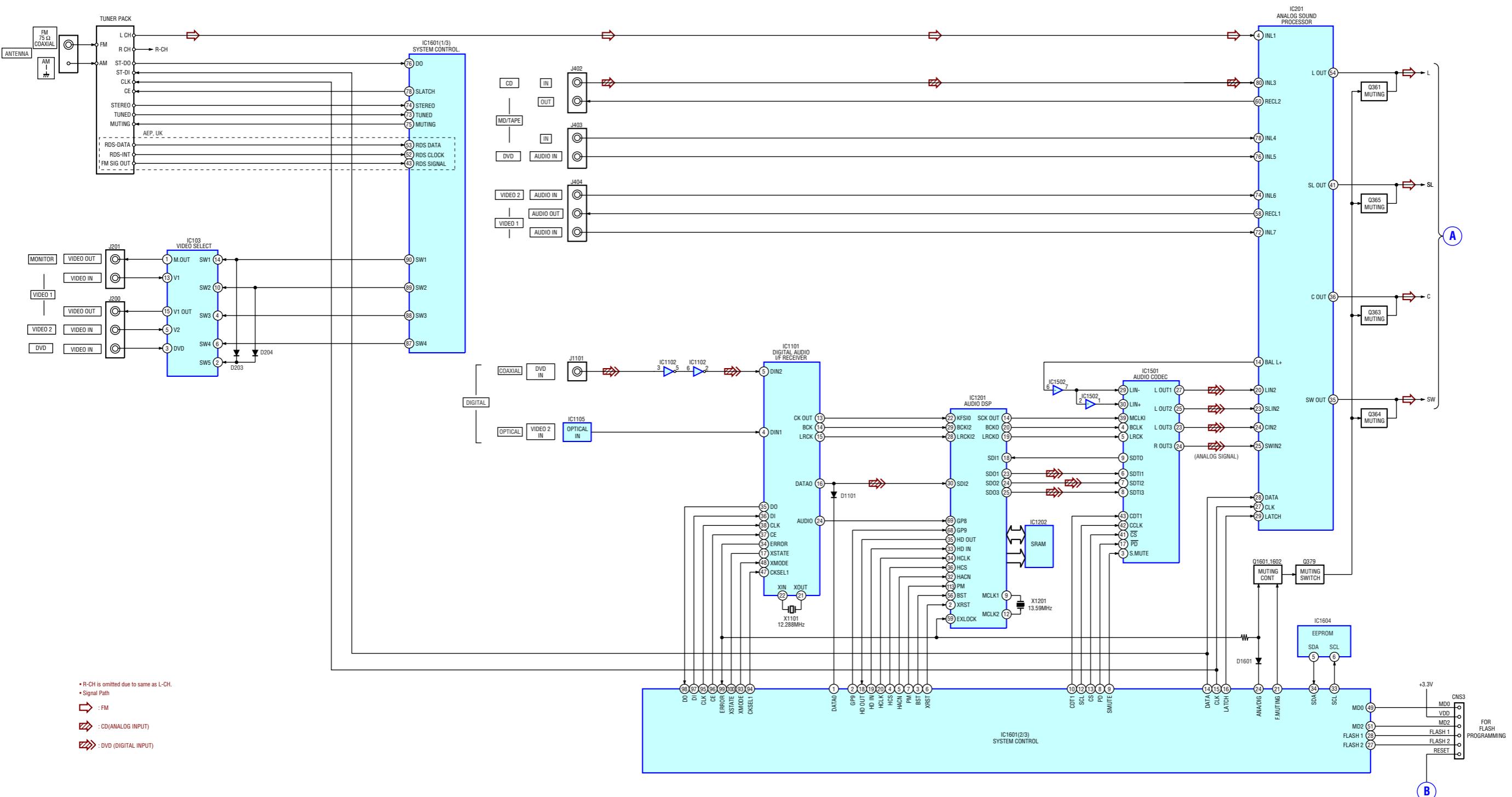
Caution:
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
(Side A)
Parts face side: Parts on the parts face side seen from the parts face are indicated.
(Side B)

• Waveform

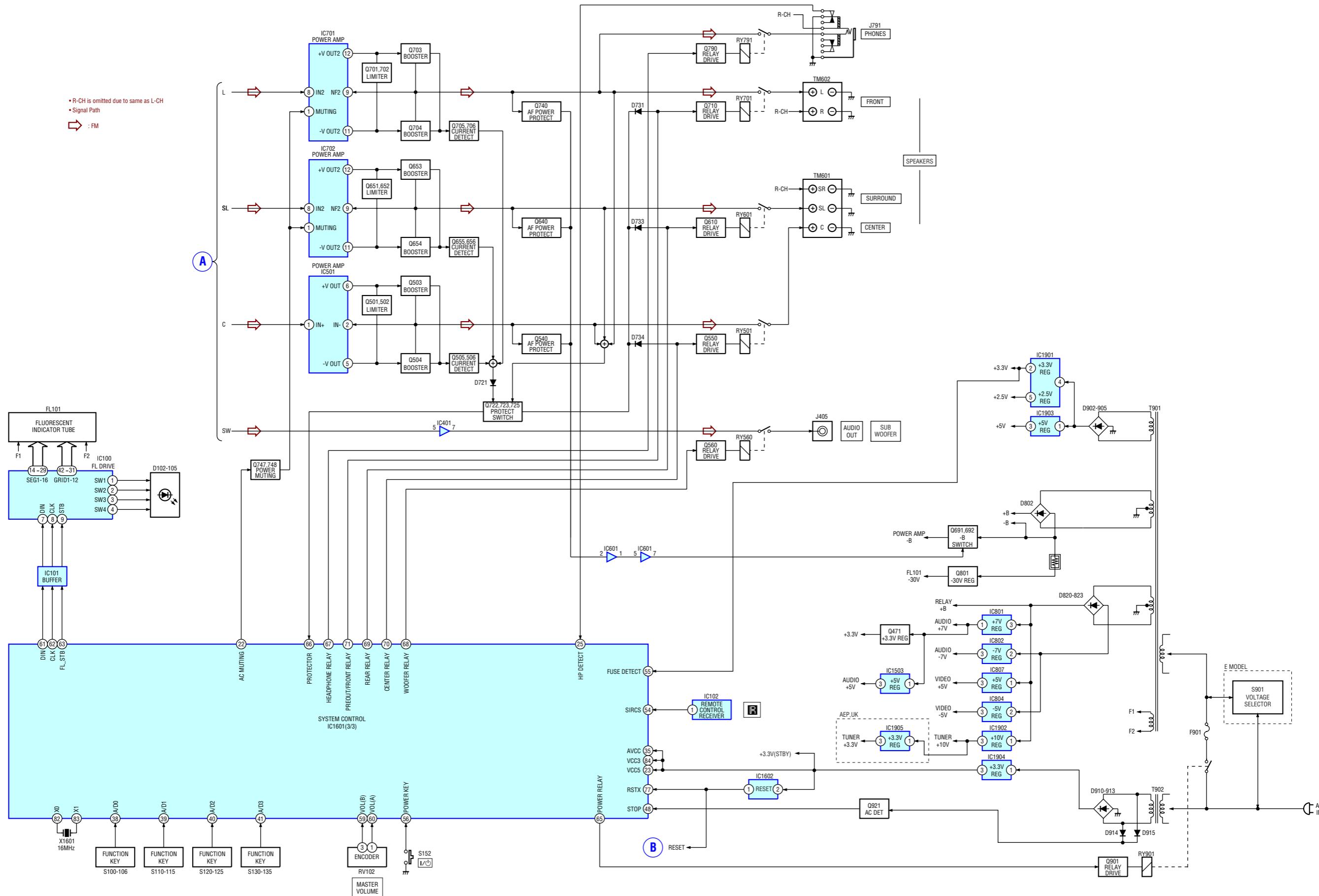
DIGITAL Board



3-2. Block Diagrams – MAIN Section –



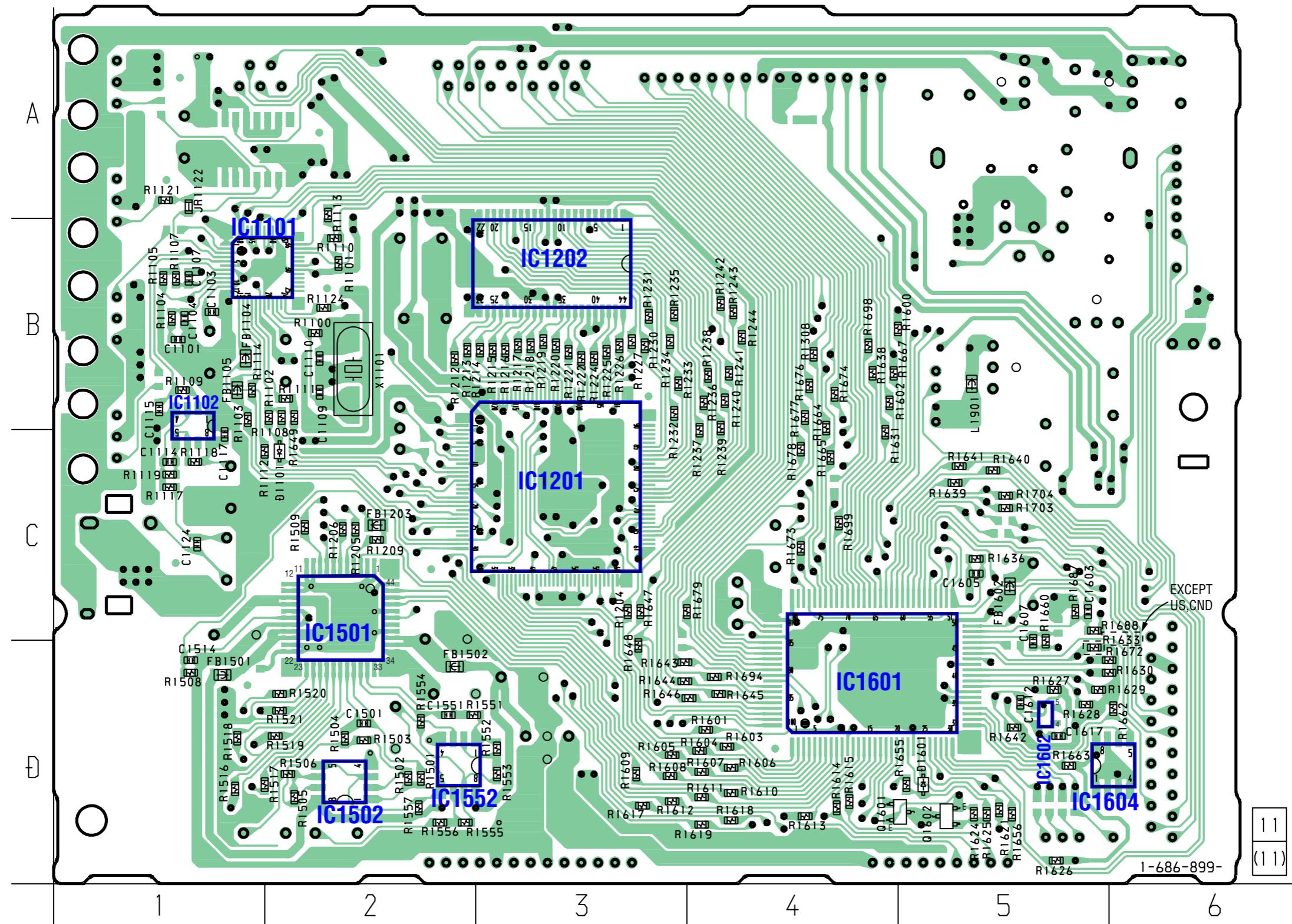
- DISPLAY/POWER Section -



3-3. Printed Wiring Board – DIGITAL Board (SIDE A) –

• See page 7 for Circuit Boards Location. •  : Uses unleaded solder.

【DIGITAL BOARD】(SIDE A)

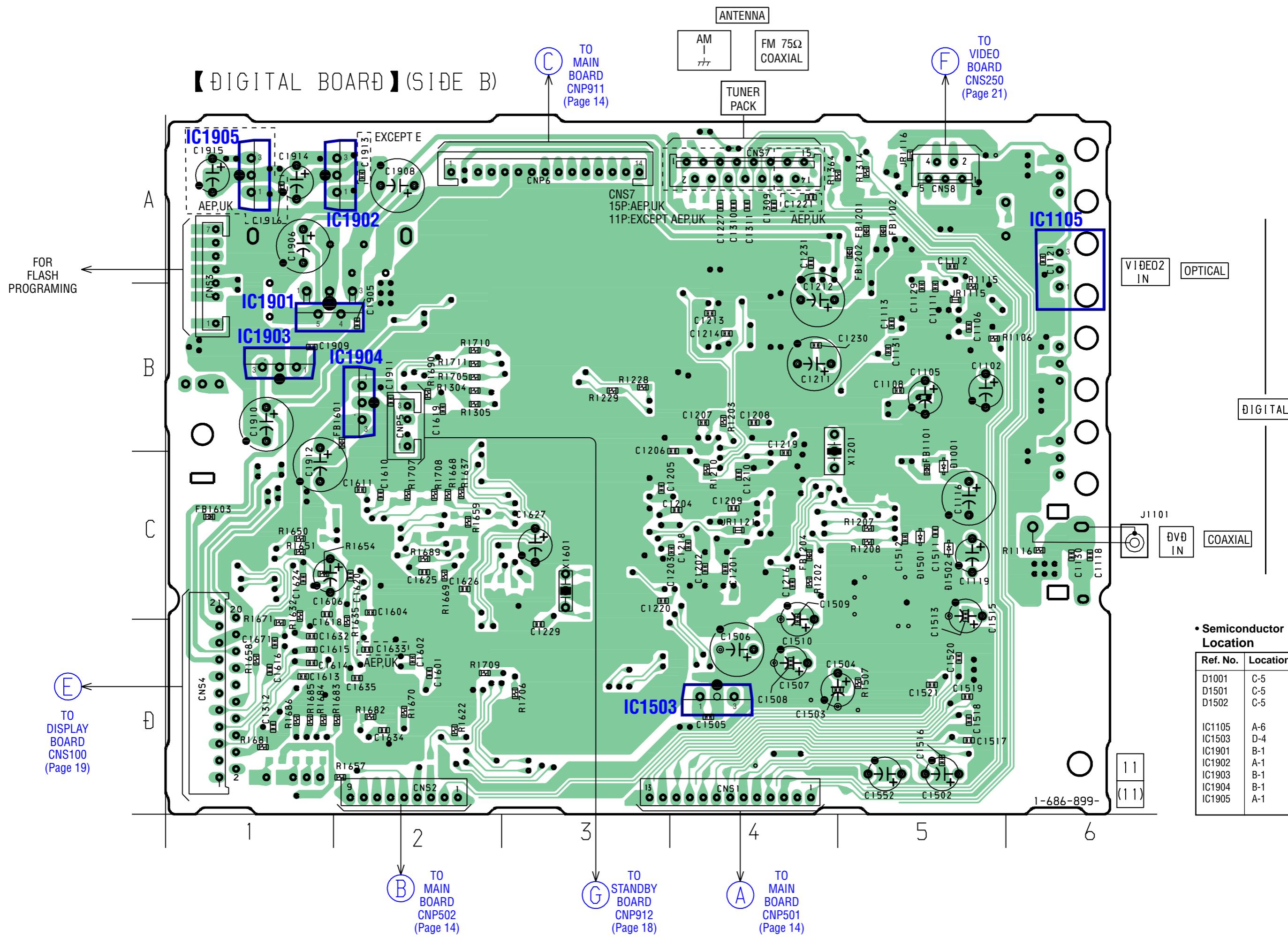


3-4. Printed Wiring Board – DIGITAL Board (SIDE B) –

• See page 7 for Circuit Boards Location.

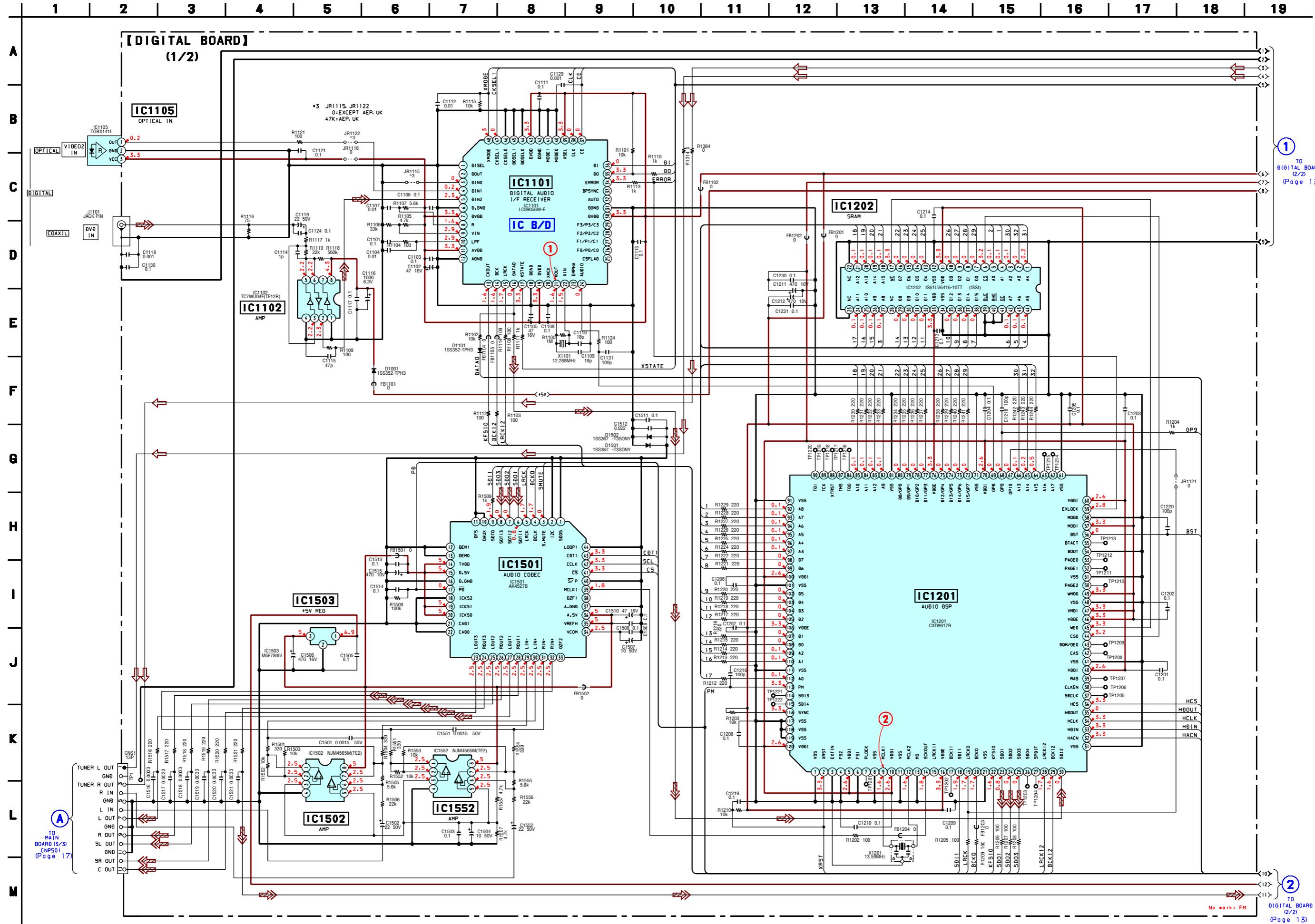


• Uses unleaded solder.



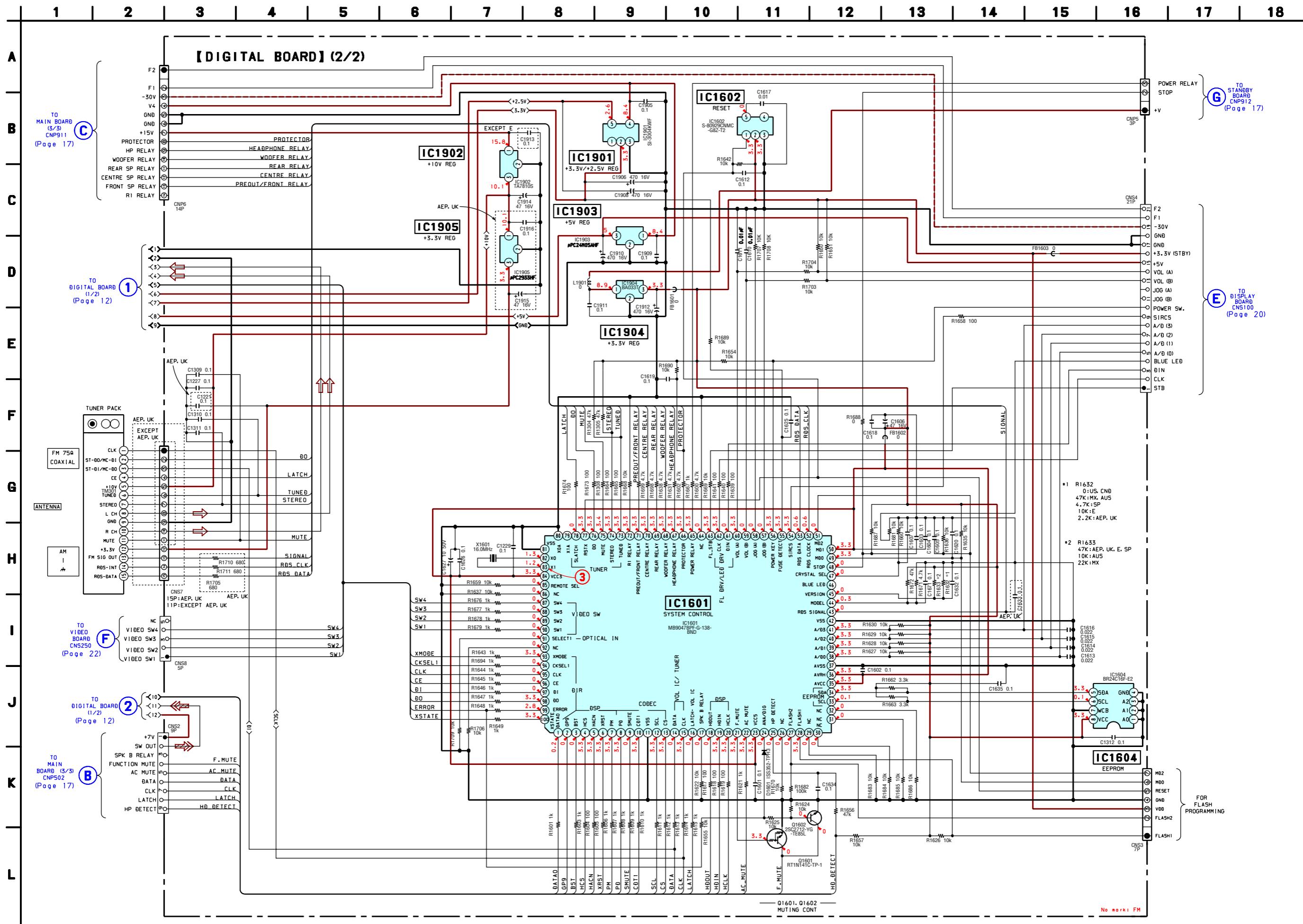
3-5. Schematic Diagram – DIGITAL Section (1/2) –

• See page 7 for Waveforms. • See page 23 for IC Block Diagrams.



3-6. Schematic Diagram – DIGITAL Section (2/2) –

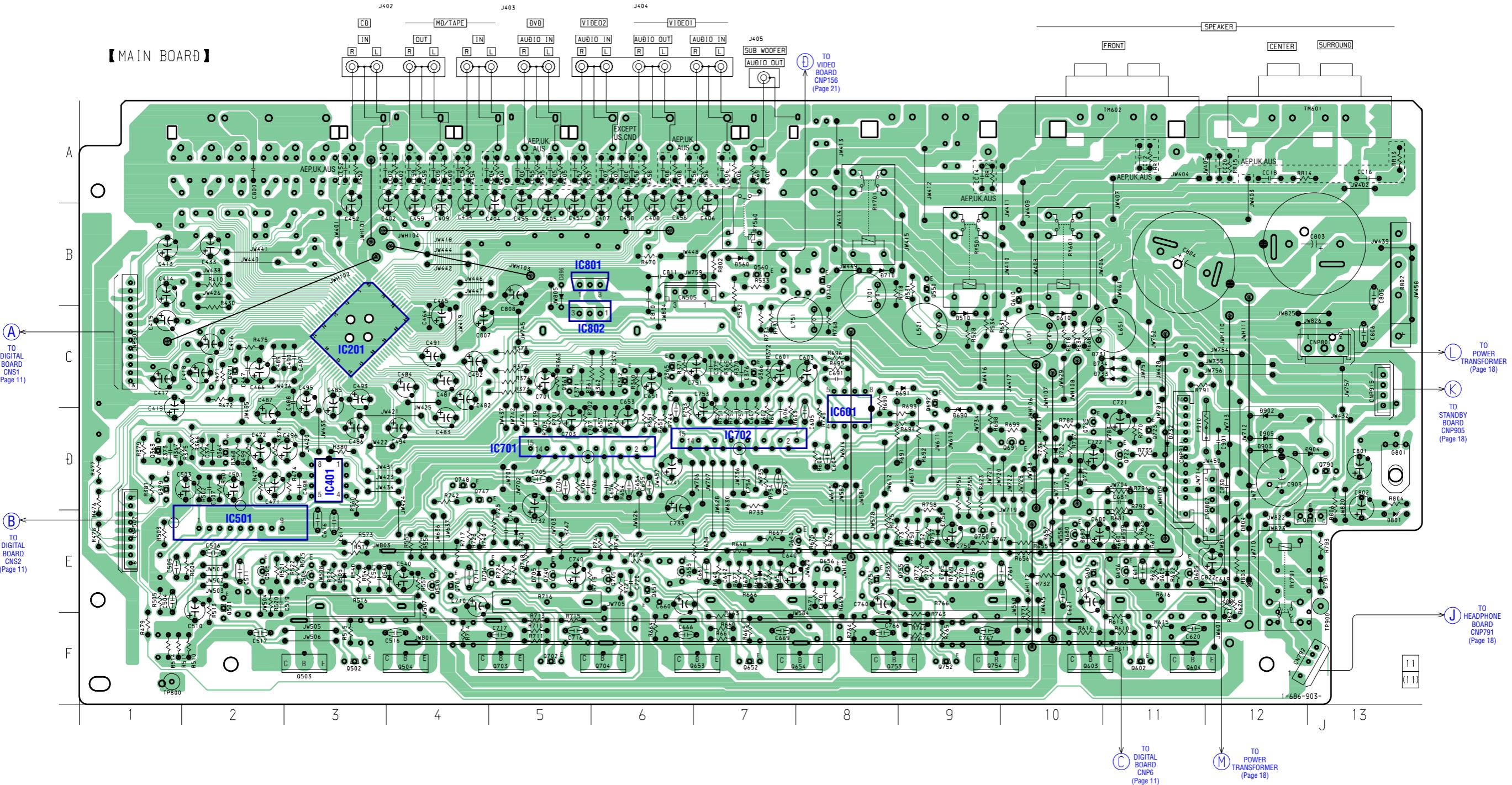
• See page 7 for Waveforms.



STR-DE495P/K750P

3-7. Printed Wiring Board – MAIN Board –

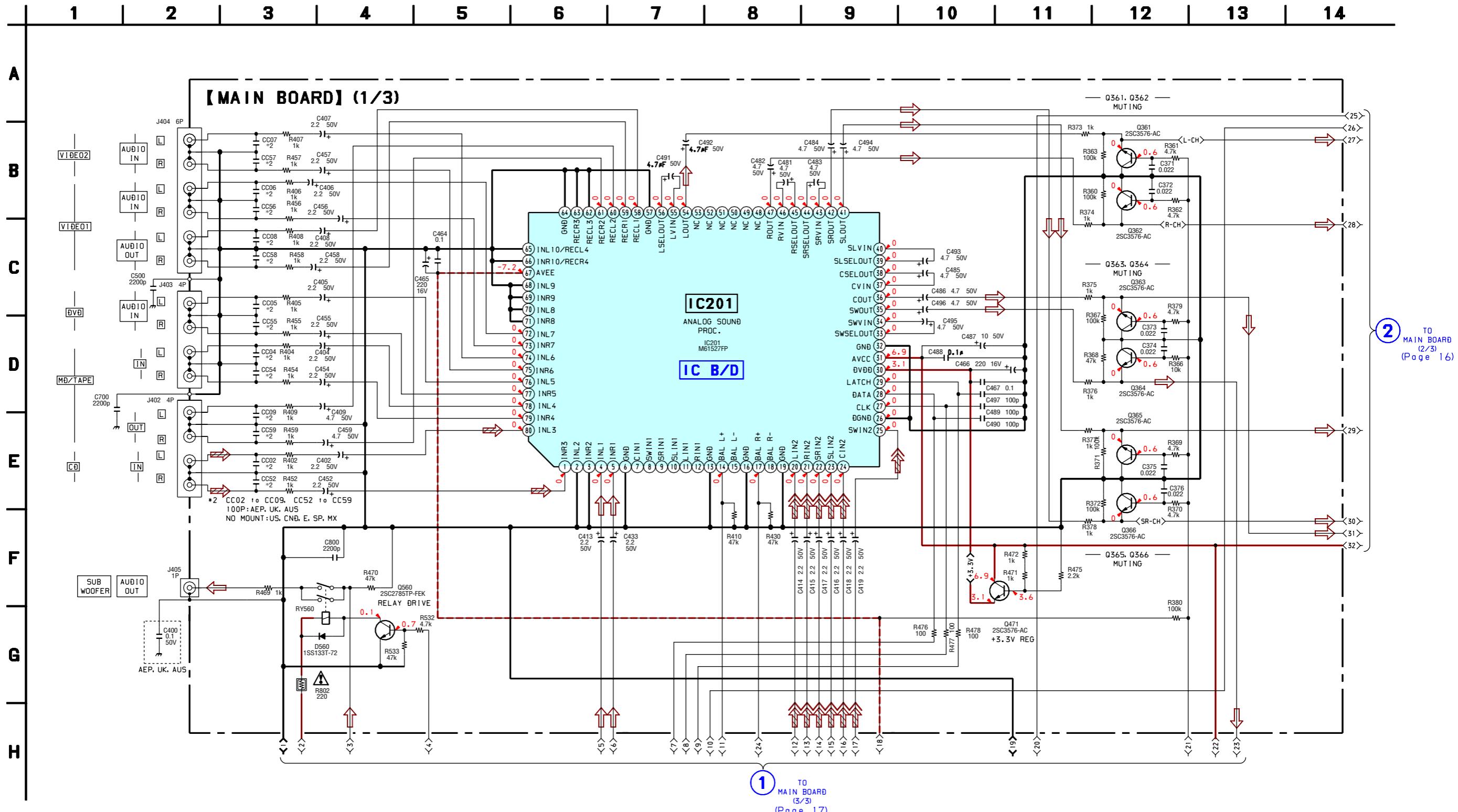
• See page 7 for Circuit Boards Location. •  : Uses unleaded solder.



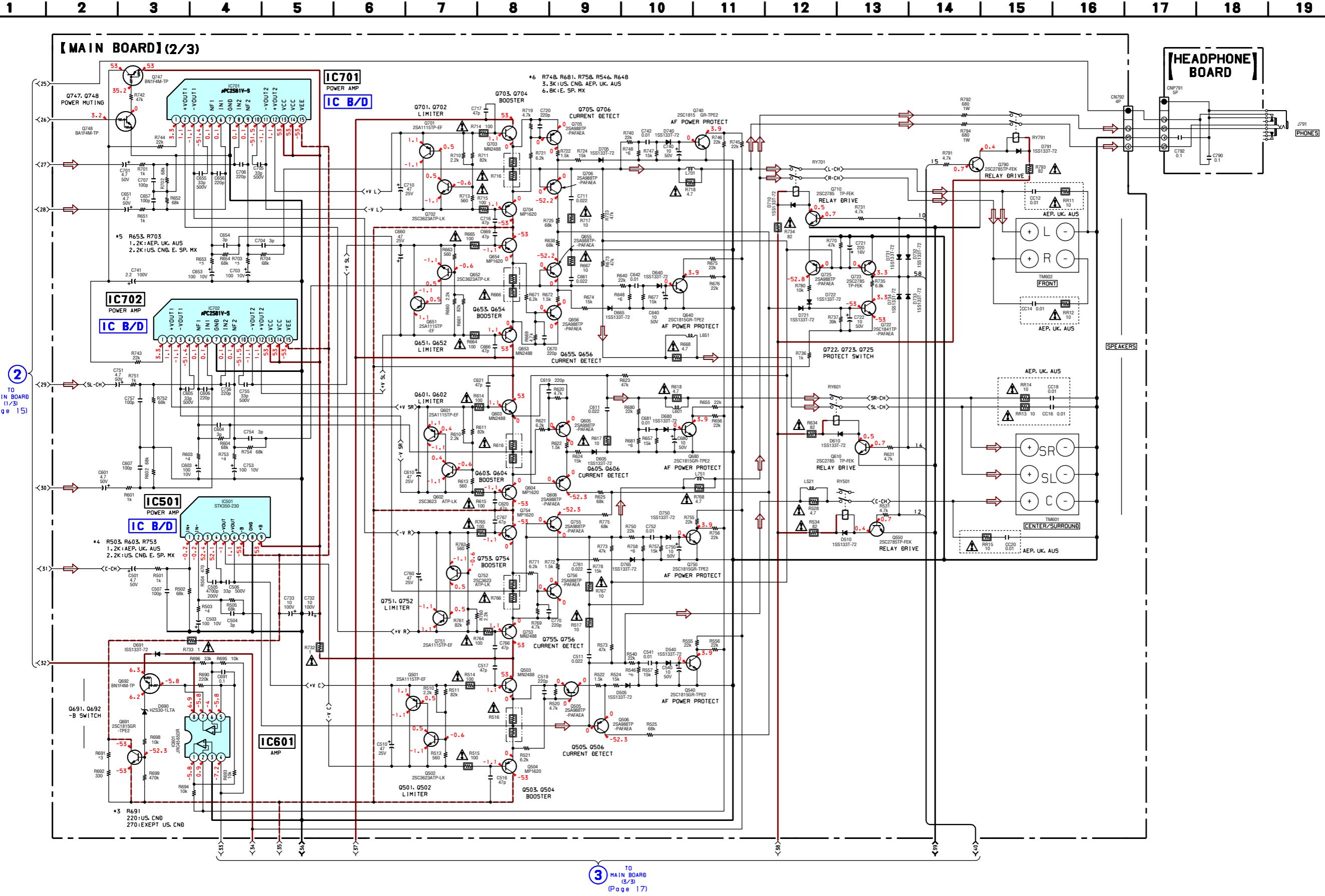
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	E-3	D722	D-10	D903	D-12	Q362	C-6	Q550	B-9	Q655	E-6
D510	C-9	D731	C-10	D904	D-12	Q363	D-1	Q560	B-7	Q656	E-8
D540	E-3	D732	D-11	D905	D-12	Q364	D-2	Q601	E-10	Q680	E-10
D560	B-7	D733	C-10			Q365	C-6	Q602	F-11	Q691	D-9
D605	E-11	D734	C-10	IC201	C-3	Q366	C-7	Q603	F-10	Q692	C-9
D610	C-10	D740	E-5	IC401	D-3	Q379	D-1	Q604	F-11	Q701	E-4
D640	E-7	D750	E-9	IC501	E-2	Q471	C-2	Q605	E-11	Q702	F-5
D665	E-7	D765	E-9	IC601	D-8	Q501	E-2	Q606	E-11	Q703	F-5
D680	E-10	D791	E-13	IC701	D-5	Q502	F-3	Q610	C-10	Q704	F-6
D690	D-9	D801	E-13	IC702	D-7	Q503	F-3	Q640	E-7	Q705	E-6
D691	C-8	D802	E-13	IC801	B-5	Q504	F-4	Q651	E-6	Q706	E-4
D705	E-5	D804	E-12	IC802	C-5	Q505	E-2	Q652	F-7	Q710	C-8
D710	B-8	D896	B-5			Q506	E-3	Q653	F-7	Q722	D-11
D721	D-10	D902	D-12	Q361	C-5	Q540	E-4	Q654	F-8	Q723	D-11

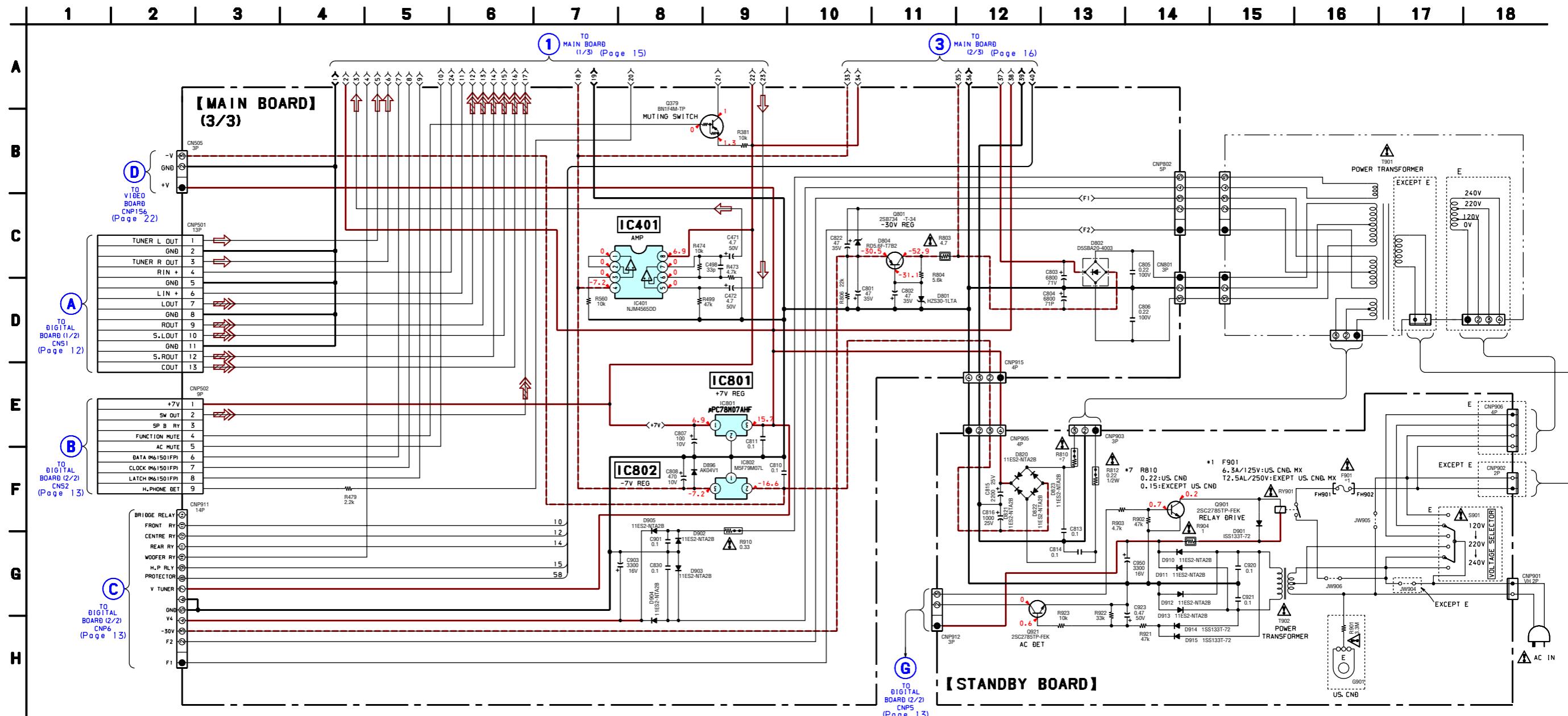
3-8. Schematic Diagram – MAIN Section (1/3) – • See page 24 for IC Block Diagrams.



3-9. Schematic Diagram – MAIN Section (2/3) – • See page 23 for IC Block Diagrams.



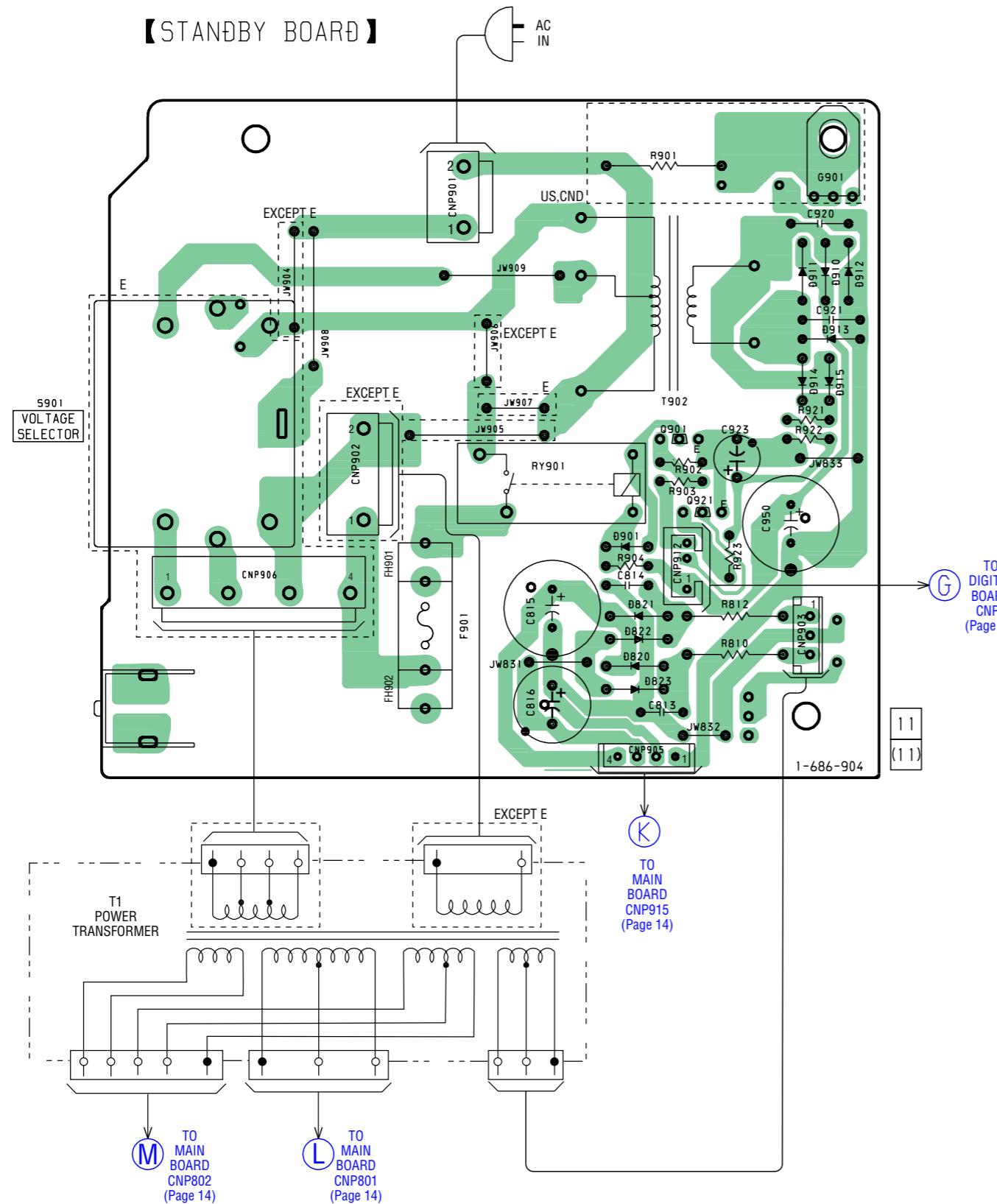
3-10. Schematic Diagram – MAIN Section (3/3) –



1 2 3 4 5 6 7 8

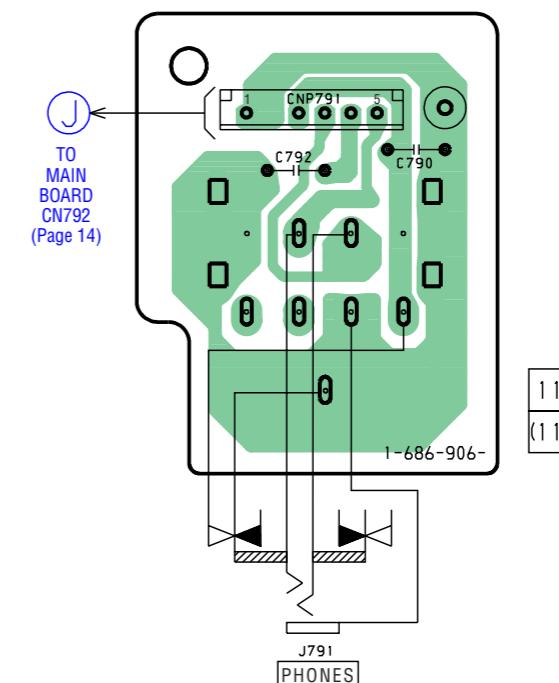
A

【STANDBY BOARD】



B

【HEADPHONE BOARD】



C

D

E

F

• Semiconductor Location

Ref. No.	Location
D820	D-4
D821	C-4
D822	D-4
D823	D-4
D901	C-4
D910	B-5
D911	B-4
D912	B-5
D913	B-5
D914	B-4
D915	B-5
Q901	C-4
Q921	C-4

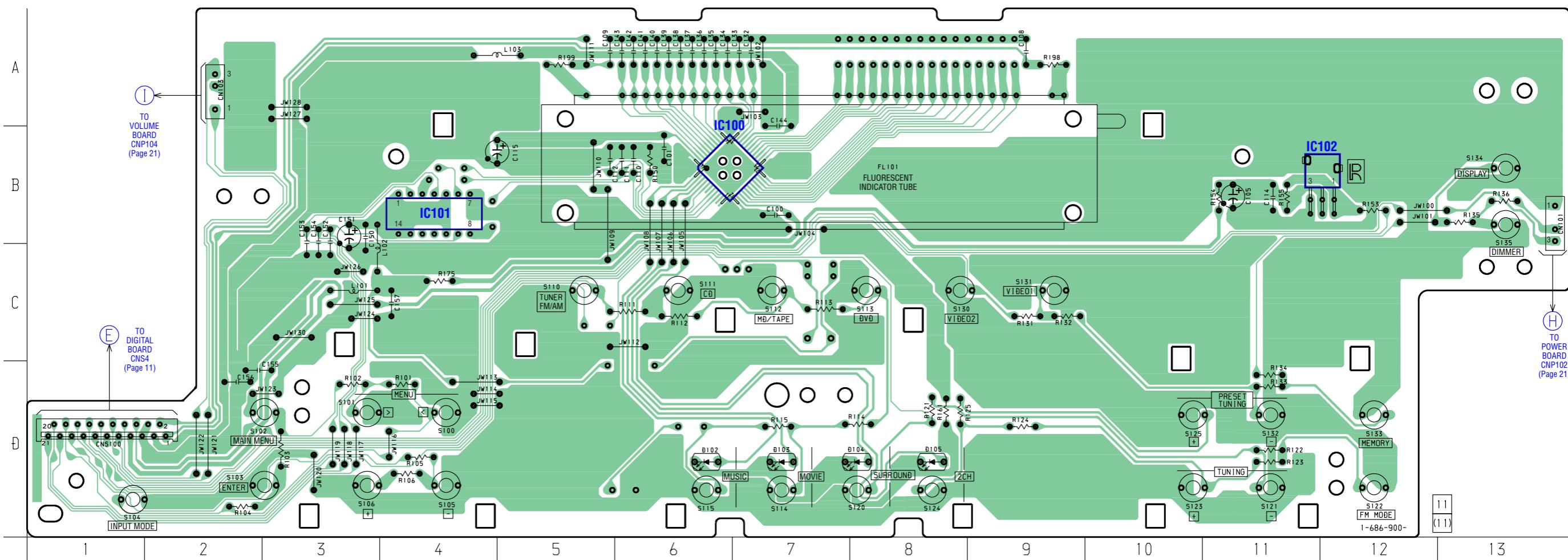
3-12. Printed Wiring Board – DISPLAY Board –

• See page 7 for Circuit Boards Location.



• LF : Uses unleaded solder.

[DISPLAY BOARD]

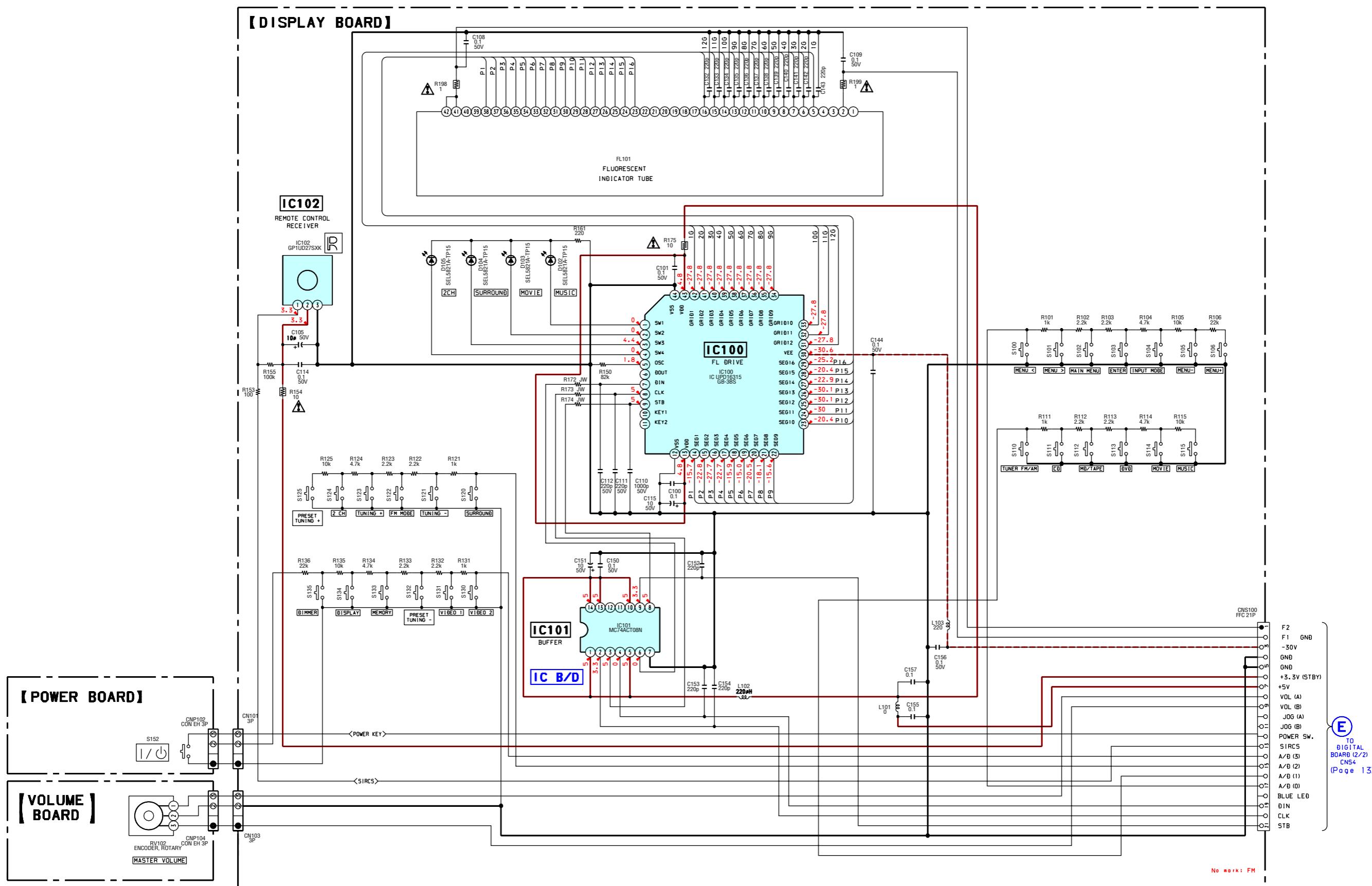


• Semiconductor Location

Ref. No.	Location
D102	D-6
D103	D-7
D104	D-8
D105	D-8
IC100	B-6
IC101	B-4
IC102	B-11

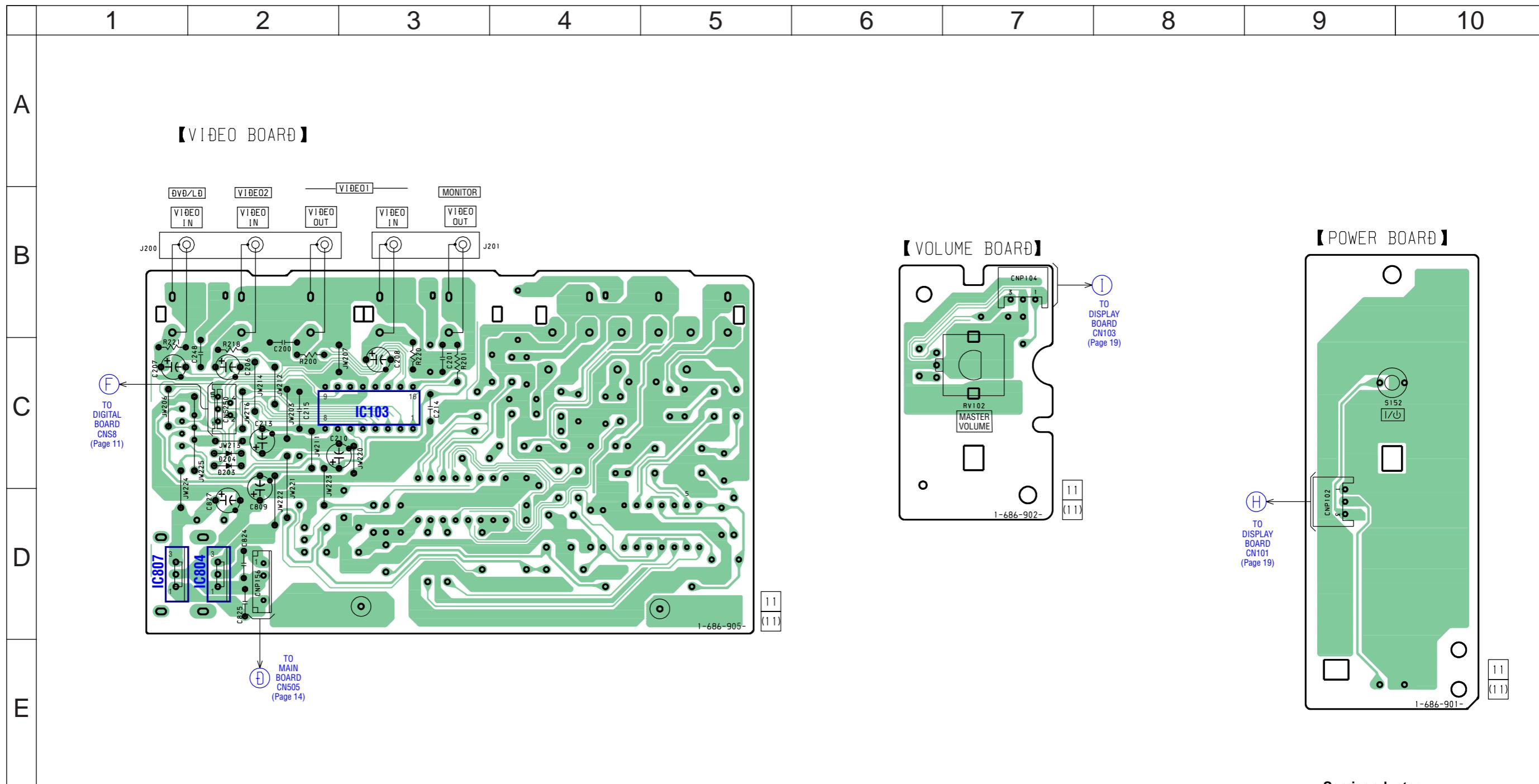
3-13. Schematic Diagram – DISPLAY Section – • See page 23 for IC Block Diagrams.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17



3-14. Printed Wiring Board – VIDEO Section –

• See page 7 for Circuit Boards Location. •  : Uses unleaded solder.

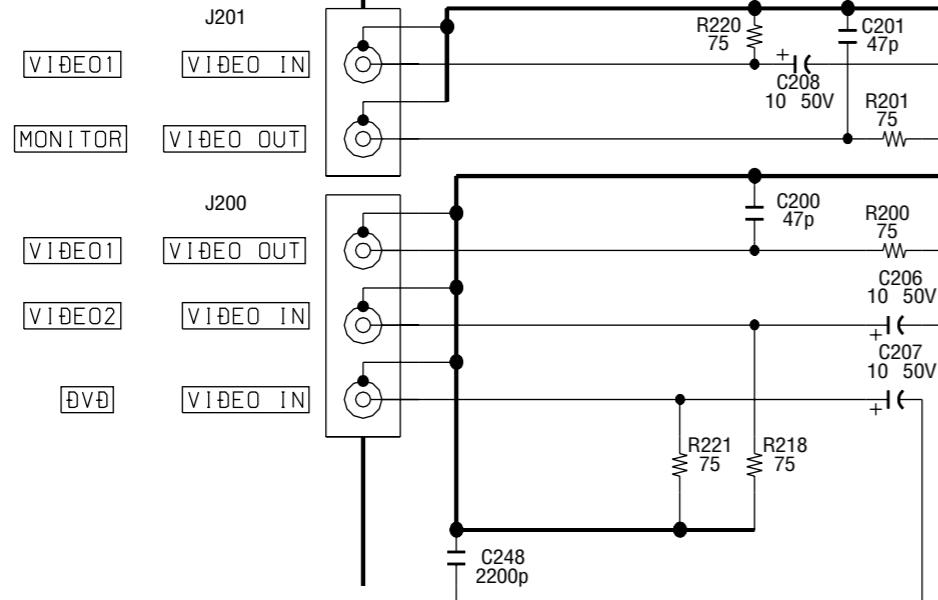


• Semiconductor Location

Ref. No.	Location
D203	C-2
D204	C-2
IC103	C-3
IC804	D-2
IC807	D-1

3-15. Schematic Diagram – VIDEO Board – • See page 24 for IC Block Diagrams.

1 2 3 4 5 6 7 8 9

A**【VIDEO BOARD】****5**

22

6

22

7

22

8**9****IC807**

+5V REG

5

C827 47 25V

C824 0.1

C825 0.1

C809 220 16V

-5.1

-16.7

CNP156 3P

+V

GND

-V

TO MAIN

BOARD (3/3)

CN505

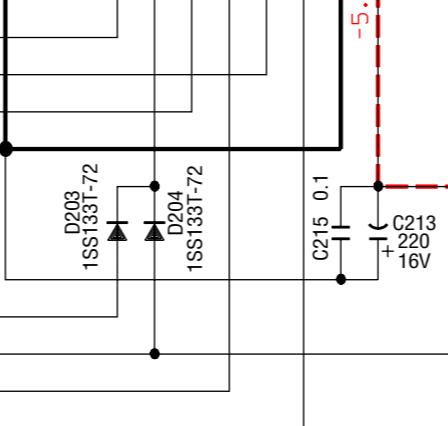
(Page 17)

IC804

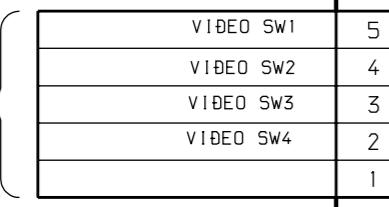
-5V REG

IC103

VIDEO SELECT

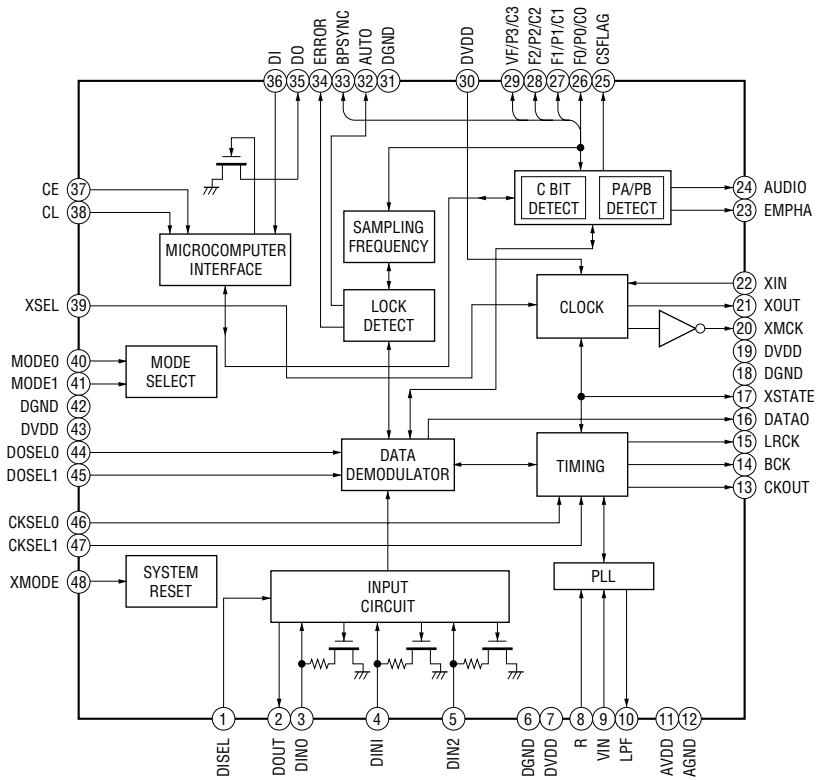
IC B/D

No mark: FM

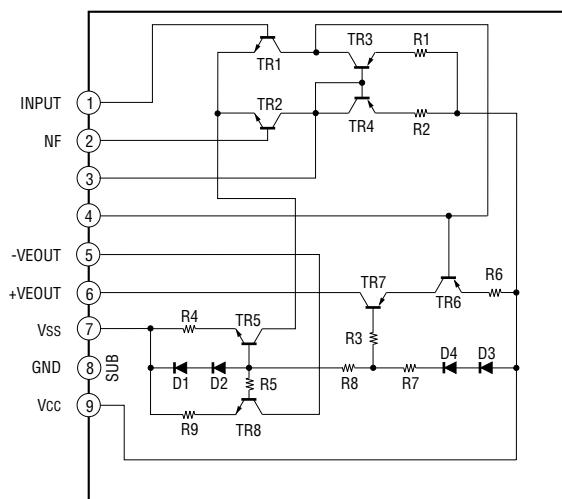
FTO DIGITAL
BOARD
(2/2)
CNS8
(Page 13)CNS250
5P**E**

3-16. IC Block Diagrams

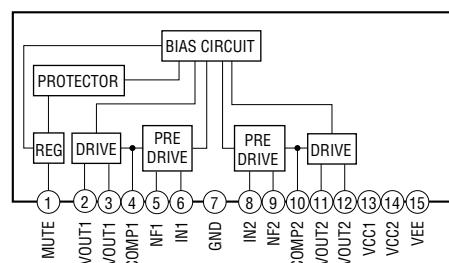
IC1101 LC89056W-E (DIGITAL BOARD)



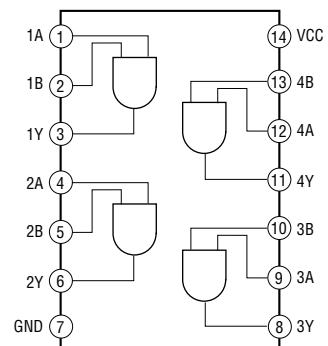
IC501 STK350-230 (MAIN BOARD)



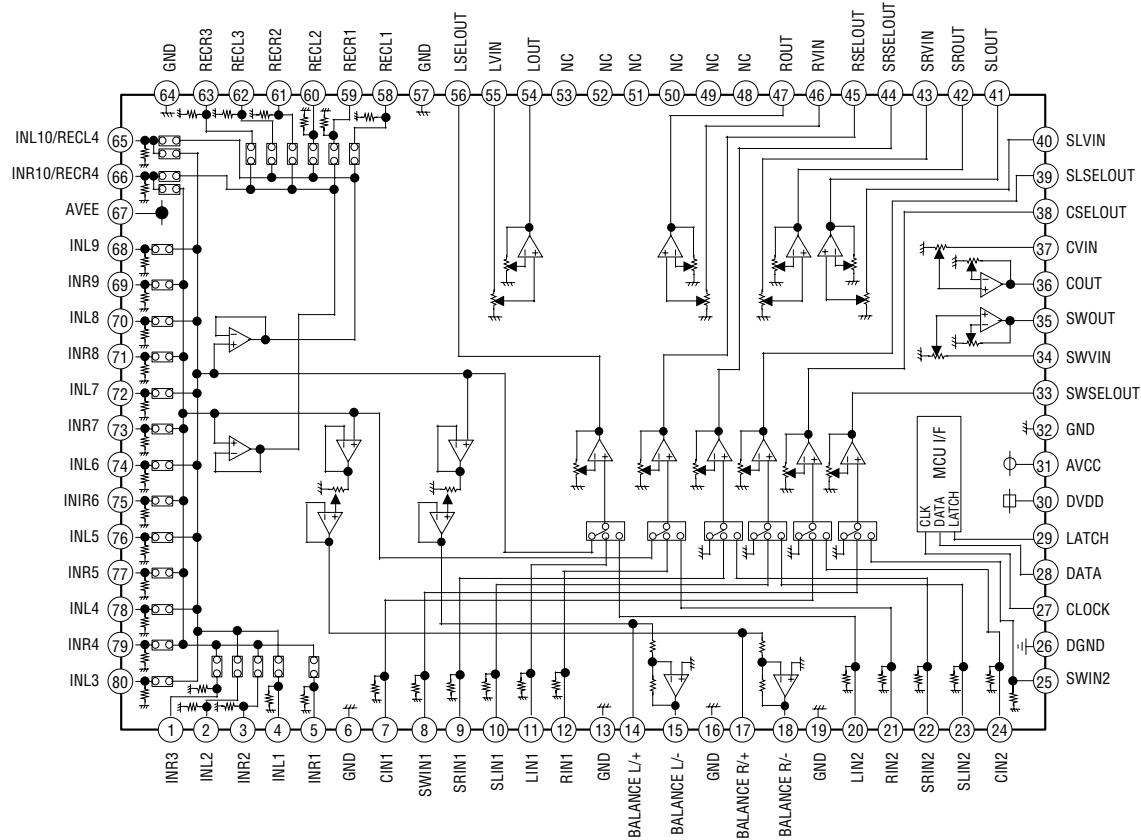
IC701, IC702 μPC2581V-S (MAIN BOARD)



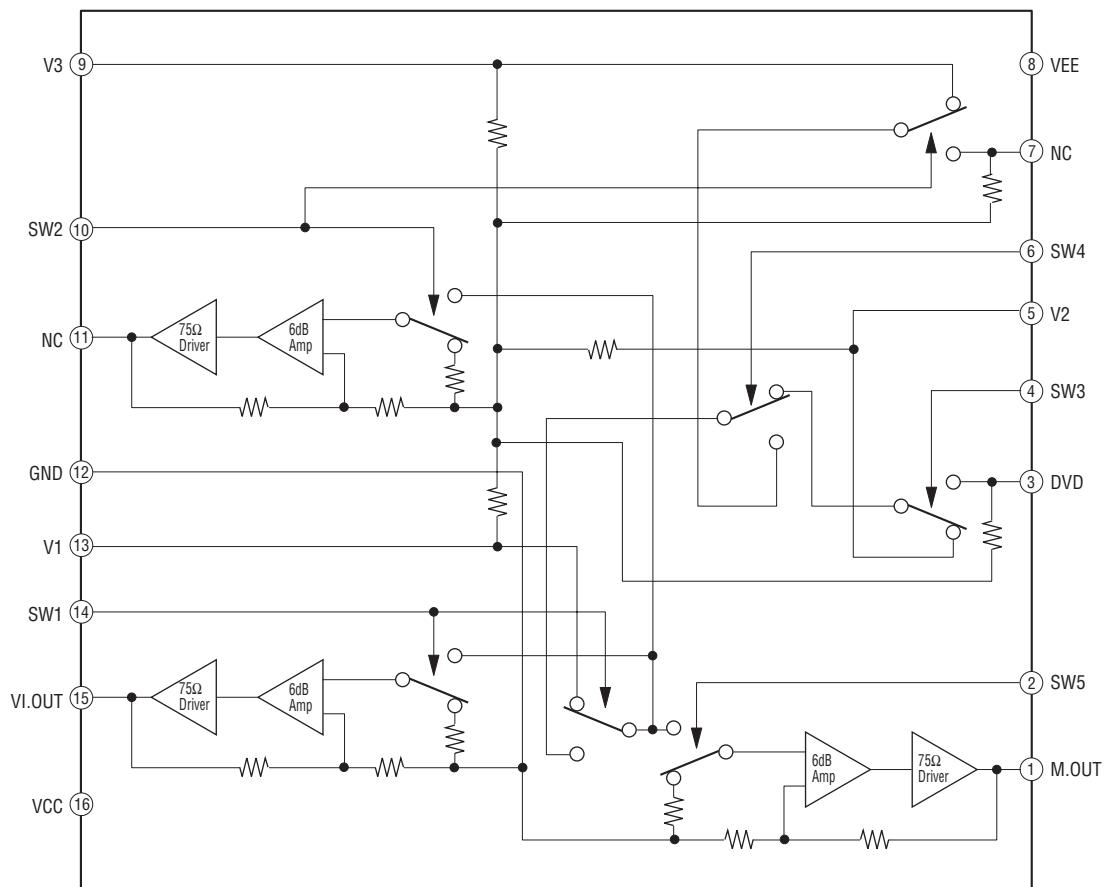
IC101 MC74ACT08N (DISPLAY BOARD)



IC201 M61527FP (MAIN BOARD)



IC103 NJM2595D (VIDEO BOARD)



3-17. IC Pin Function Descriptions**• IC1601 MB9047BPF-G-138-BND (SYSTEM CONTROL)**

Pin No.	Pin Name	I/O	Description
1	DATAO	I	Audio data signal input from DIR
2	GP9	I	GP9 signal input from DSP
3	BST	O	BST signal output to DSP
4	HCS	O	HCS signal output to DSP
5	HACN	I	HACN signal input from DSP
6	XRST	O	Reset signal output to DSP
7	PM	O	PM signal output to DSP
8	PD	O	Power down signal output to AUDIO CODEC
9	SMUTE	O	Muting signal output to AUDIO CODEC
10	CDT1	O	Control data signal output to AUDIO CODEC
11	VSS	—	Ground terminal
12	SCL	O	Clock signal output to AUDIO CODEC
13	CS	O	Chip select signal output to AUDIO CODEC
14	DATA	O	Control data signal output to the sound processor
15	CLK	O	Clock signal output to the sound processor
16	LATCH	O	Latch signal output to the sound processor
17	SPK B RELAY	O	Not used
18	HDOUT	I	HDOUT signal input from DSP
19	HDIN	O	HDIN signal output to DSP
20	HCLK	O	Clock signal output to DSP
21	F.MUTE	O	Muting signal output
22	AC MUTE	O	Muting signal output to the power amplifier
23	VCC5	—	Power supply
24	ANA/DIG	I	Muting and error signal input
25	HP DETECT	I	Headphone switch detect signal input
26	NC	O	Not used
27	FLASH2	O	Terminal for FLASH programming
28	FLASH1	I/O	Terminal for FLASH programming
29	NC	—	Not used
30	NC	—	Not used
31	NC	—	Not used
32	NC	—	Not used
33	SCL	—	Serial clock output
34	SDA	I/O	Serial data input or output
35	AVCC	—	Analog power supply
36	AVRH	I	Analog reference voltage input
37	AVSS	—	Analog ground terminal
38	A/D0	I	Function key push signal input
39	A/D1	I	Function key push signal input
40	A/D2	I	Function key push signal input
41	A/D3	I	Function key push signal input
42	VSS	—	Ground terminal
43	RDS SIGNAL	I	RDS signal detect input
44	MODEL	I	Version setting input (MODEL)
45	VERSION	I	Version setting input (DESTINATION)
46	BLUE LED	O	Not used
47	CRYSTAL SEL	—	Short to ground terminal
48	STOP	I	AC off detect signal input
49	MD0	I	Operation mode setting input
50	MD1	I	Operation mode setting input

STR-DE495P/K750P

Pin No.	Pin Name	I/O	Description
51	MD2	I	Operation mode setting input
52	RDS CLOCK	O	RDS clock signal output (Not used)
53	RDS DATA	O	RDS data signal output (Not used)
54	SIRCS	I	Data signal input from the remote control sensor
55	FUSE DETECT	I	Fuse detect signal input
56	POWER KEY	I	Power switch key detect signal input
57	JOG (B)	I	Jog dial signal input from the rotary encoder
58	JOG (A)	I	Jog dial signal input from the rotary encoder
59	VOL (B)	I	Jog dial signal input from the rotary encoder
60	VOL (A)	I	Jog dial signal input from the rotary encoder
61	DIN	O	Data signal output to the FL tube driver
62	CLK	O	Clock signal output to the FL tube driver
63	FL STB	O	Strobe signal output to the FL tube driver
64	NC	—	Control A1 signal output
65	POWER RELAY	O	Power relay control signal output
66	PROTECTOR	I	Protector status detect signal input
67	HEADPHONE RELAY	O	Headphone relay control signal output
68	WOOFER RELAY	O	Woofer relay control signal output
69	REAR RELAY	O	Rear speaker relay control signal output
70	CENTRE RELAY	O	Centre speaker relay control signal output
71	PREOUT/FRONT RELAY	O	Front speaker relay control signal output
72	R1 RELAY	O	Bridgeable relay control
73	TUNED	O	Tuning a frequency signal input from the tuner
74	STEREO	O	Stereo tuning signal input from the tuner
75	MUTE	O	Muting signal output to the tuner
76	DO	I	Frequency data signal input from the tuner
77	RSTX	I	System reset
78	SLATCH	O	Latch signal output to the tuner
79	X1A	—	Not used
80	X0A	—	Not used
81	VSS	—	Ground terminal
82	X0	—	Connection for a crystal resonator
83	X1	—	Connection for a crystal resonator
84	VCC3	—	Power supply
85	REMOTE SEL	—	Short to ground terminal
86	NC	O	Not used
87	SW4	O	Video select control signal output
88	SW3	O	Video select control signal output
89	SW2	O	Video select control signal output
90	SW1	O	Video muting control signal output
91	SELECT1	O	Optical in selector control signal output
92	NC	—	Not used
93	XMODE	O	Reset signal output to DIR
94	CKSEL 1	O	CKSEL control signal to DIR
95	CLK	O	Clock signal output to DIR
96	CE	O	Chip enable signal output to DIR
97	DI	O	Data signal output to DIR
98	DO	I	Data signal input from DIR
99	ERROR	I	PLL error muting signal input from DIR
100	XSTATE	I	XSTATE data signal input from DIR

SECTION 4 EXPLODED VIEWS

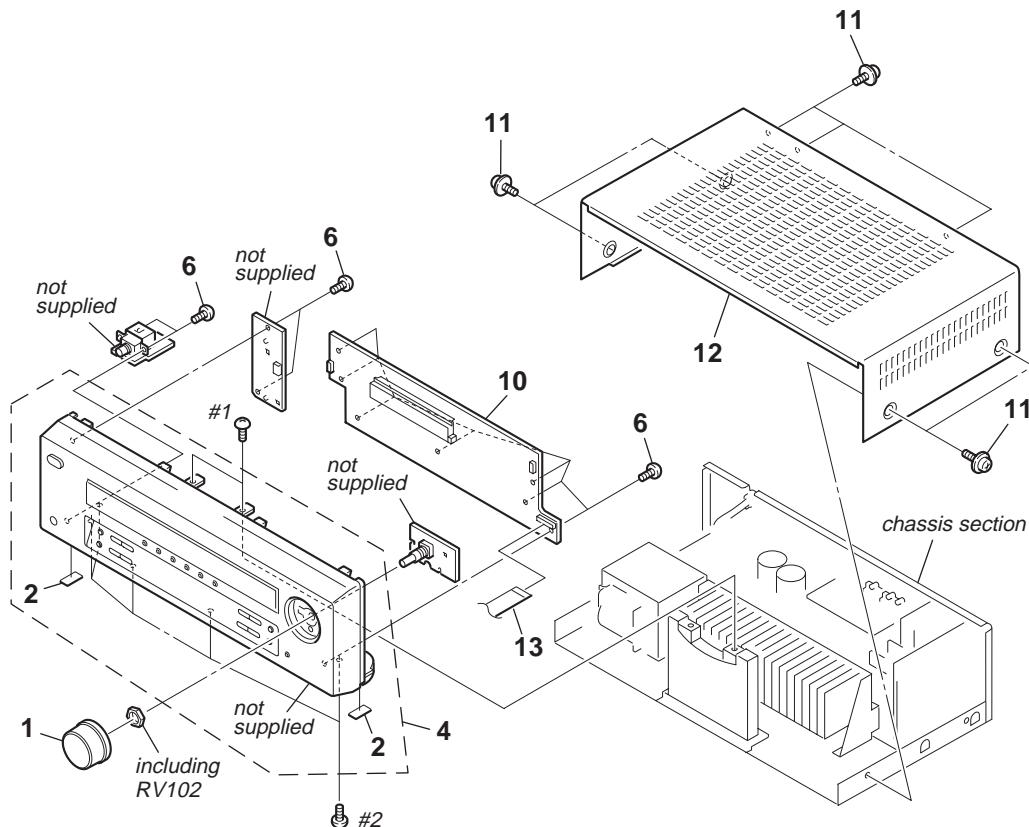
NOTE:

- XX, -X mean standardized parts, so they may have some differences 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.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
 - CND : Canadian model
 - SP : Singapore model (Malaysia model included)
 - MX : Mexican model
 - AUS : Australian model

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

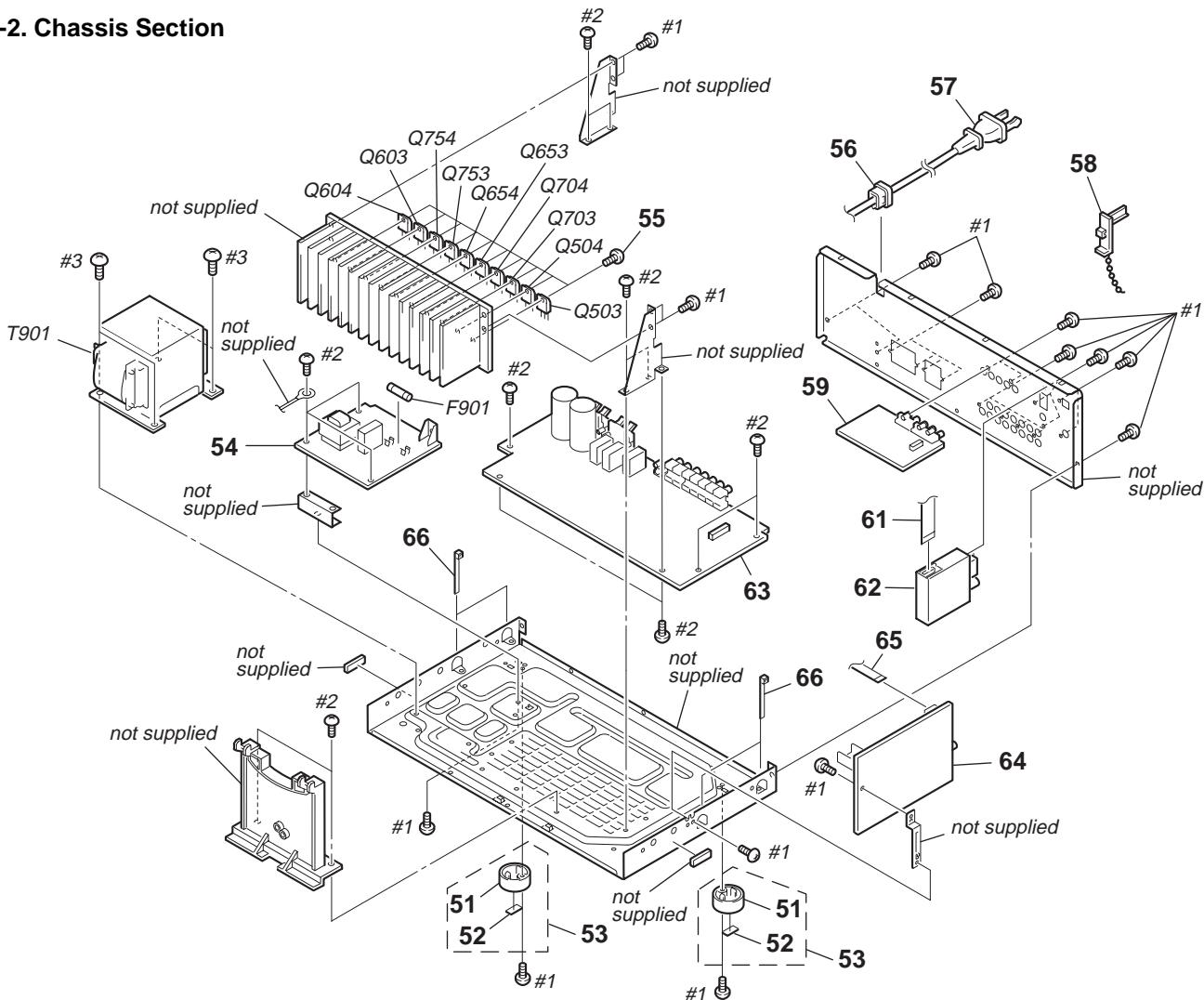
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. Front Panel Section

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-232-113-01	KNOB (VOL) (US)		10	A-4731-177-A	DISPLAY BOARD,COMPLETE	
1	4-232-113-12	KNOB (VOL) (EXCEPT US)		11	4-210-291-01	SCREW (CASE 3 TP2) (US)	
2	4-977-358-01	CUSHION		11	4-210-291-11	SCREW (CASE 3 TP2) (EXCEPT US)	
4	X-4955-171-1	FRONT PANEL ASSY (US)		12	4-245-939-01	CASE (US)	
4	X-4955-215-1	FRONT PANEL ASSY (CND)		12	4-245-939-21	CASE (EXCEPT US)	
4	X-4955-217-1	FRONT PANEL ASSY (E,SP,MX,AUS)		☆ 13	1-773-164-11	WIRE (FLAT TYPE)(21 CORE)	
4	X-4955-225-1	FRONT PANEL ASSY (AEP,UK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
6	4-951-620-01	SCREW (2.6X8), +BVTP		#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	

☆ Please use it, bending like an original article and processing it.

4-2. Chassis Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-232-237-01	FOOT (DIA. 30)		66	3-701-748-00	CLAMP	
52	4-977-358-01	CUSHION		△F901	1-532-464-31	FUSE T2.5AL/250V (AEP,UK,E,SP,AUS)	
53	X-4953-448-1	FOOT ASSY		△F901	1-576-193-11	FUSE 6.3A/125V (US,CND,MX)	
54	1-686-904-11	STANDBY BOARD		Q503	8-749-010-25	IC MN2488-OPY-M	
55	3-905-609-01	SCREW (TRANSISTOR)		Q504	8-749-010-26	IC MP1620-OPY-M	
* 56	3-703-244-00	BUSHING (2104), CORD		Q603	8-749-010-25	IC MN2488-OPY-M	
△ 57	1-696-847-11	CORD, POWER (AUS)		Q604	8-749-010-26	IC MP1620-OPY-M	
△ 57	1-777-071-23	CORD, POWER (AEP,UK,E,SP)		Q653	8-749-010-25	IC MN2488-OPY-M	
△ 57	1-783-532-11	CORD, POWER (US,CND,MX)		Q654	8-749-010-26	IC MP1620-OPY-M	
58	4-956-370-12	BAND, PLUG FIXED (UK,AUS)		Q703	8-749-010-25	IC MN2488-OPY-M	
59	A-4731-175-A	VIDEO BOARD,COMPLETE		Q704	8-749-010-26	IC MP1620-OPY-M	
61	1-769-937-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP,UK)		Q753	8-749-010-25	IC MN2488-OPY-M	
61	1-773-001-11	WIRE (FLAT TYPE) (15 CORE) (AEP,UK)		Q754	8-749-010-26	IC MP1620-OPY-M	
62	1-693-577-22	TUNER (US,CND,E,MX)		△T901	1-437-998-11	POWER TRANSFORMER (US,MX)	
62	1-693-578-12	TUNER (UK)		△T901	1-439-607-11	POWER TRANSFORMER (CND)	
62	1-693-578-22	TUNER (AEP)		△T901	1-437-999-11	POWER TRANSFORMER (AEP,UK)	
62	1-693-580-22	TUNER (SP,AUS)		△T901	1-439-547-11	POWER TRANSFORMER (SP,AUS)	
63	A-4731-171-A	MAIN BOARD,COMPLETE (US,CND)		△T901	1-439-548-11	POWER TRANSFORMER (E)	
63	A-4731-280-A	MAIN BOARD,COMPLETE (AEP,UK,AUS)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
63	A-4731-422-A	MAIN BOARD,COMPLETE (E,SP,MX)		#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
64	A-4731-180-A	DIGITAL BOARD,COMPLETE (US,CND)		#3	7-685-880-09	SCREW +BVTT 4X6 (S)	
64	A-4731-282-A	DIGITAL BOARD,COMPLETE (AUS)		<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>			
64	A-4731-423-A	DIGITAL BOARD,COMPLETE (SP)		<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>			
64	A-4731-426-A	DIGITAL BOARD,COMPLETE (E)					
64	A-4731-429-A	DIGITAL BOARD,COMPLETE (MX)					
64	A-4731-431-A	DIGITAL BOARD,COMPLETE (AEP,UK)					
65	1-575-662-31	WIRE (FLAT TYPE) (5 CORE)					

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.