

# AVD-LS10

## SERVICE MANUAL

Ver 1.1 2004.05

AEP Model  
UK Model



Model Name Using Similar Mechanism	NEW
Mechanism Type	DP-5RM
Base Unit Name	NEW
Optical Pick-up Name	NEW

### SPECIFICATIONS

#### Amplifier section

Stereo mode 40 W + 40 W (8 ohms at 1 kHz, THD 0.7 %)  
 Surround mode Front: 40 W + 40 W (THD 0.7 %)  
 Center\*: 40 W  
 Rear\*: 40 W + 40 W (8 ohms at 1 kHz, THD 0.7 %)

\* Depending on the source, there may be no sound output.

Inputs (Analog) VIDEO 1, VIDEO 2, TV-AUDIO:  
 Sensitivity: 150 mV  
 Impedance: 50 kilohms

Inputs (Digital) VIDEO 2 (Optical):  
 Sensitivity: –

Outputs (Analog) VIDEO 1 (AUDIO OUT):  
 Voltage: 2 V  
 Impedance: 1 kilohms  
 SUBWOOFER AUDIO OUT:  
 Voltage: 3 V  
 Impedance: 1 kilohms

PHONES:  
 Accepts low- and high-impedance headphones

Outputs (Digital) DIGITAL OUT OPTICAL (CD/DVD)  
 Sensitivity: –

#### CD/DVD system

Laser Semiconductor laser  
 (CD:  $\lambda = 780$  nm, DVD:  $\lambda = 650$  nm)  
 Emission duration: continuous

Signal format system NTSC/PAL

Frequency response (at 2 CH STEREO mode)  
 DVD (PCM): 20 Hz to 20 kHz (+0.5 dB, -3.0 dB)  
 CD: 20 Hz to 20 kHz (+0.5 dB, -3.0 dB)

Signal-to-noise ratio More than 75 dB (VIDEO 1 (AUDIO) connectors only)

Harmonic distortion Less than 0.5 %

#### FM tuner section

System PLL quartz-locked digital synthesizer system  
 Tuning range: 87.5 – 108.0 MHz (50 kHz step)  
 Antenna FM wire antenna  
 Antenna terminals 75 ohms, unbalanced  
 Intermediate frequency 10.7 MHz

#### AM tuner section

System Tuner section:  
 PLL quartz-locked digital synthesizer system

Tuning range  
 North American model: 531 – 1,602 kHz (with the interval set at 9 kHz)  
 Antenna Loop antenna  
 Intermediate frequency 450 kHz

#### Video section (EURO AV)

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

#### General

Power requirements 230 V AC, 50/60 Hz  
 Power consumption 70 W  
 1.3 W (in the standby mode)  
 Dimensions (approx.) 430 x 83 x 355 mm (17 x 3 x 14 inches) (w/h/d) incl. projecting parts  
 Mass (approx.) 5.0 kg (11 lb 7 oz)  
 Operating temperature 5°C to 35°C (41°F to 95°F)  
 Operating humidity 5 % to 90 %  
 Supplied accessories See page 14.

— Continued on next page —

## AUDIO CD/DVD RECEIVER

9-877-629-02

2004E02-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

# SONY®

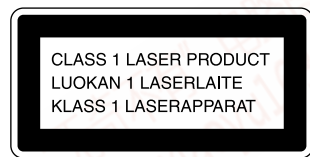
# AVD-LS10

## Supplied accessories

- AM loop antenna (1)
- FM wire antenna (1)
- Remote Commander (remote) RM-LS10 (1)
- R6 (size AA) batteries (2)
- Video cord (PINPLUG X 1 ↔ PINPLUG X 1) (1)

Design and specifications are subject to change without notice.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



This caution label is located inside the unit.

**CAUTION**  
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

## 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.

## Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

## NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

## NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

## LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output several times.

## 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.

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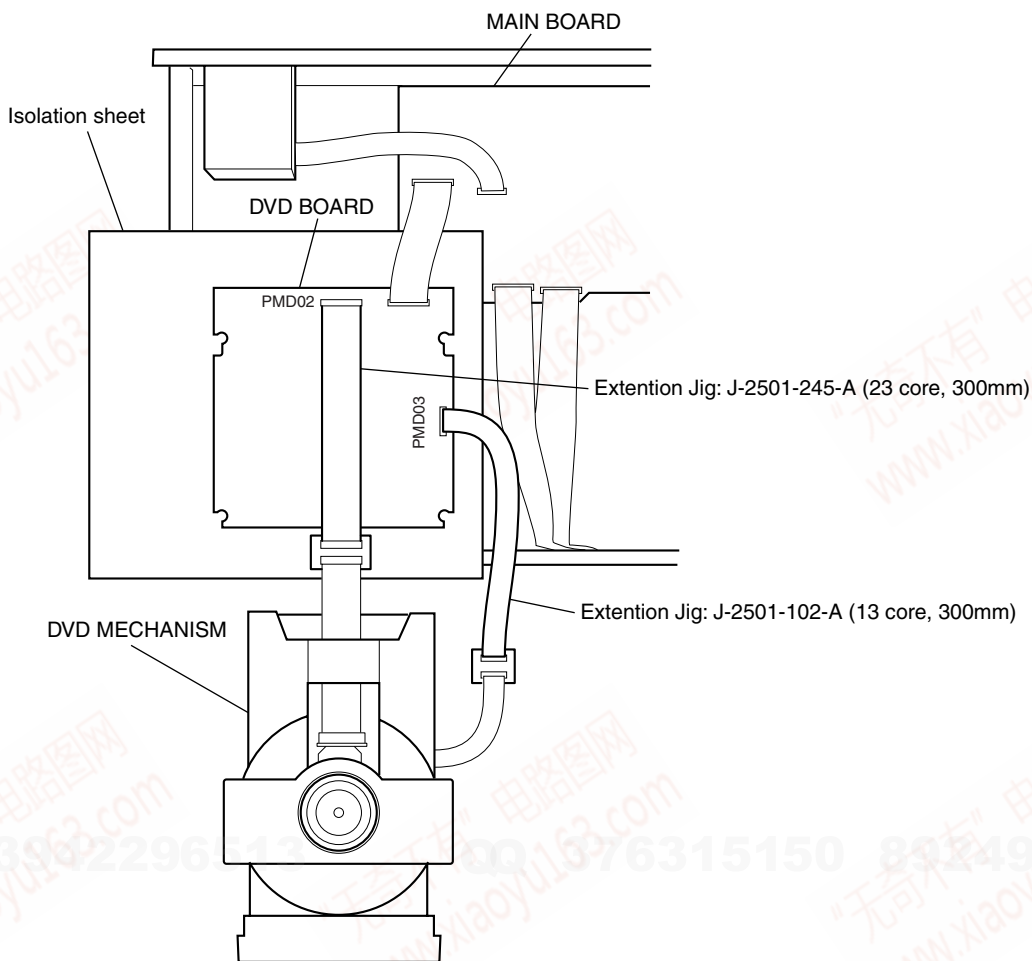
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# AVD-LS10

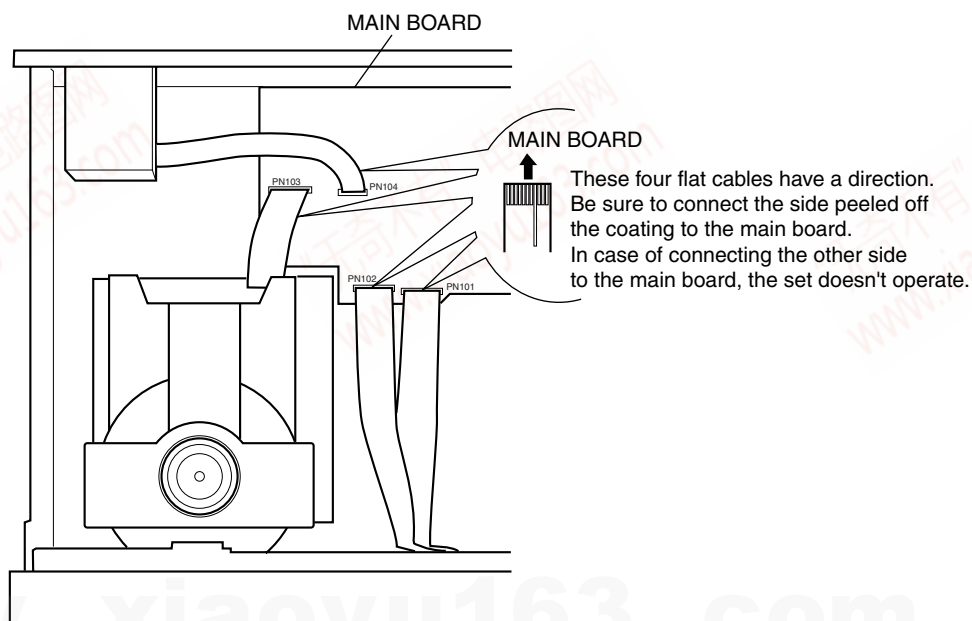
## SECTION 1 SERVICING NOTE

### SERVICE POSITION

#### • DVD MECHANISM



#### • NOTE FOR FLAT CABLE CONNECTION

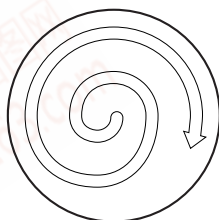


## • CLEANING THE OPTICAL PICK-UP

**Note 1:** In cleaning the lens, do not apply an excessive force  
As the optical pick-up is vulnerable, application of excessive force could damage the lens holder.

**Note 2:** In cleaning, do not use a cleaner other than exclusive cleaning liquid. (KK-91 or isopropyl alcohol)

**Note 3:** Wipe the objective lens spirally from center toward outside. (See Figure A)






(Figure A)



## • DISC TRAY LOCK


The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

### Setting Procedure :

1. Press the  button of the main unit.
2. Put the disc into the tray.
3. Press two buttons of  and  simultaneously for five seconds.
4. The message "LOCKED" is displayed and the tray is locked.

### Releasing Procedure :

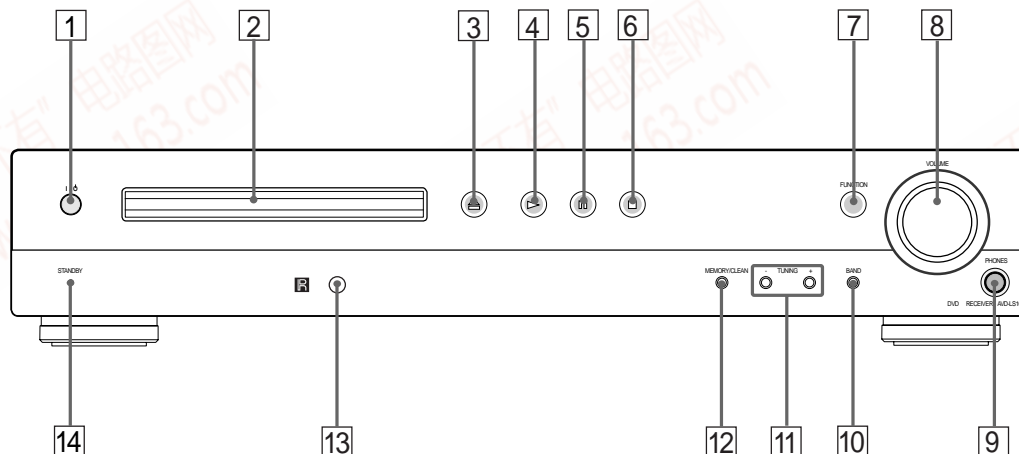
1. Press two buttons of  and  simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

**Note :** When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the  button.

# Index to Parts and Controls

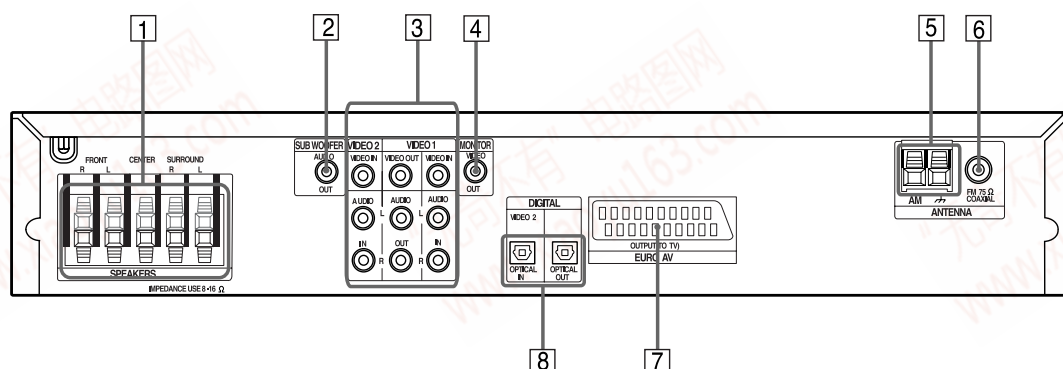
For more information, refer to the pages indicated in parentheses.

## Front Panel



- |                       |                             |
|-----------------------|-----------------------------|
| <b>1</b> POWER switch | <b>8</b> VOLUME control     |
| <b>2</b> Disc tray    | <b>9</b> PHONES jack        |
| <b>3</b> (open/close) | <b>10</b> BAND              |
| <b>4</b> (play)       | <b>11</b> TUNING +/-        |
| <b>5</b> (pause)      | <b>12</b> MEMORY/CLEAR      |
| <b>6</b> (stop)       | <b>13</b> (remote sensor)   |
| <b>7</b> FUNCTION     | <b>14</b> STANDBY indicator |

## Rear Panel

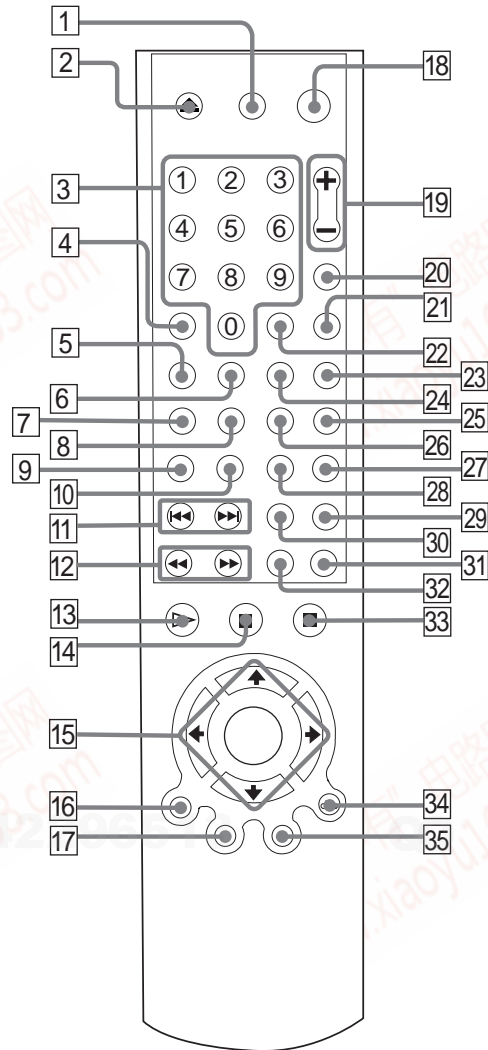


- |                                   |                                       |
|-----------------------------------|---------------------------------------|
| <b>1</b> SPEAKERS jacks           | <b>5</b> AM antenna                   |
| <b>2</b> SUBWOOFER AUDIO OUT jack | <b>6</b> FM 75Ω COAXIAL antenna       |
| <b>3</b> VIDEO 1/2 jacks          | <b>7</b> EURO AV OUTPUT (TO TV) jack  |
| <b>4</b> MONITOR OUT jack         | <b>8</b> DIGITAL IN/OUT OPTICAL jacks |



This section is extracted from instruction manual.

Remote



- 1 TV I/⏻ (on/standby)
- 2 OPEN/CLOSE
- 3 Number buttons
- 4 CLEAR
- 5 FUNCTION
- 6 BAND
- 7 PLAY MODE
- 8 REPEAT
- 9 DIMMER
- 10 TEST TONE
- 11 ◀▶, PRESET +/-
- 12 ◀◀▶▶ SLOW SCAN +/-
- 13 ▷ (play)
- 14 || (pause)
- 15 ◀/▶/⬆/⬇/▶/⬆/ENTER
- 16 DVD DISPLAY
- 17 DVD TOP MENU
- 18 I/⏻ (on/standby)
- 19 VOLUME +/-
- 20 MUTE
- 21 TV/VIDEO
- 22 RDS
- 23 DOLBY PL/PLII
- 24 STEREO/MONO
- 25 2CHANNEL
- 26 REPEAT A-B
- 27 LEVEL
- 28 DELAY
- 29 ANGLE
- 30 SUBTITLE
- 31 AUDIO
- 32 DVD SETUP
- 33 ■ (stop)
- 34 ↶ RETURN
- 35 DVD MENU

Note

This remote control glows in the dark. However, before glowing, the remote must be exposed to light for awhile.


### SECTION 3 DIAGRAMS





**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**

**(In addition to this, the 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.
- $\Delta$  : internal component.
-  : panel designation.

- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances. no mark : STOP
- Circled numbers refer to waveforms.
- Signal path.
  -  : FM
  -  : CD
  -  : DVD
  -  : VIDEO




**Note:**

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

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- DVD board section
  - no mark: DVD STOP
  - ( ) : DVD PLAY
  - \* : Impossible to measure
- Other board section
  - no mark: FM
  - ( ) : DVD PLAY
  - \* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.

#### For printed wiring boards.

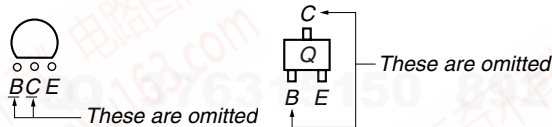
**Note:**

-  : parts extracted from the component side.
-  : Through hole.
-  : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

**Caution:**

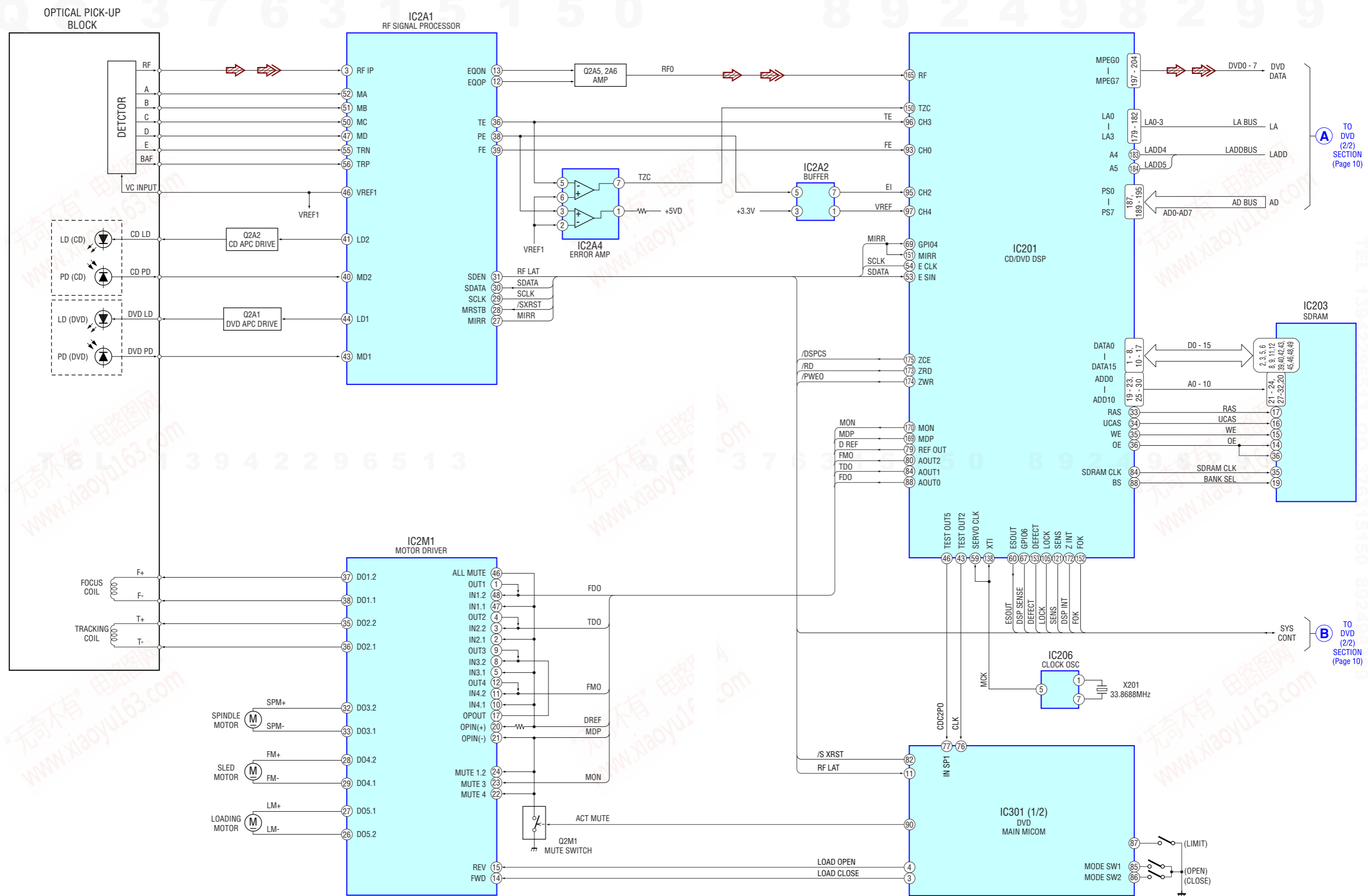
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
 (Side B)  
 Parts face side: Parts on the parts face side seen from the parts face are indicated.  
 (Side A)

#### • Indication of transistor





3-1. BLOCK DIAGRAM - DVD SECTION (1/2) -

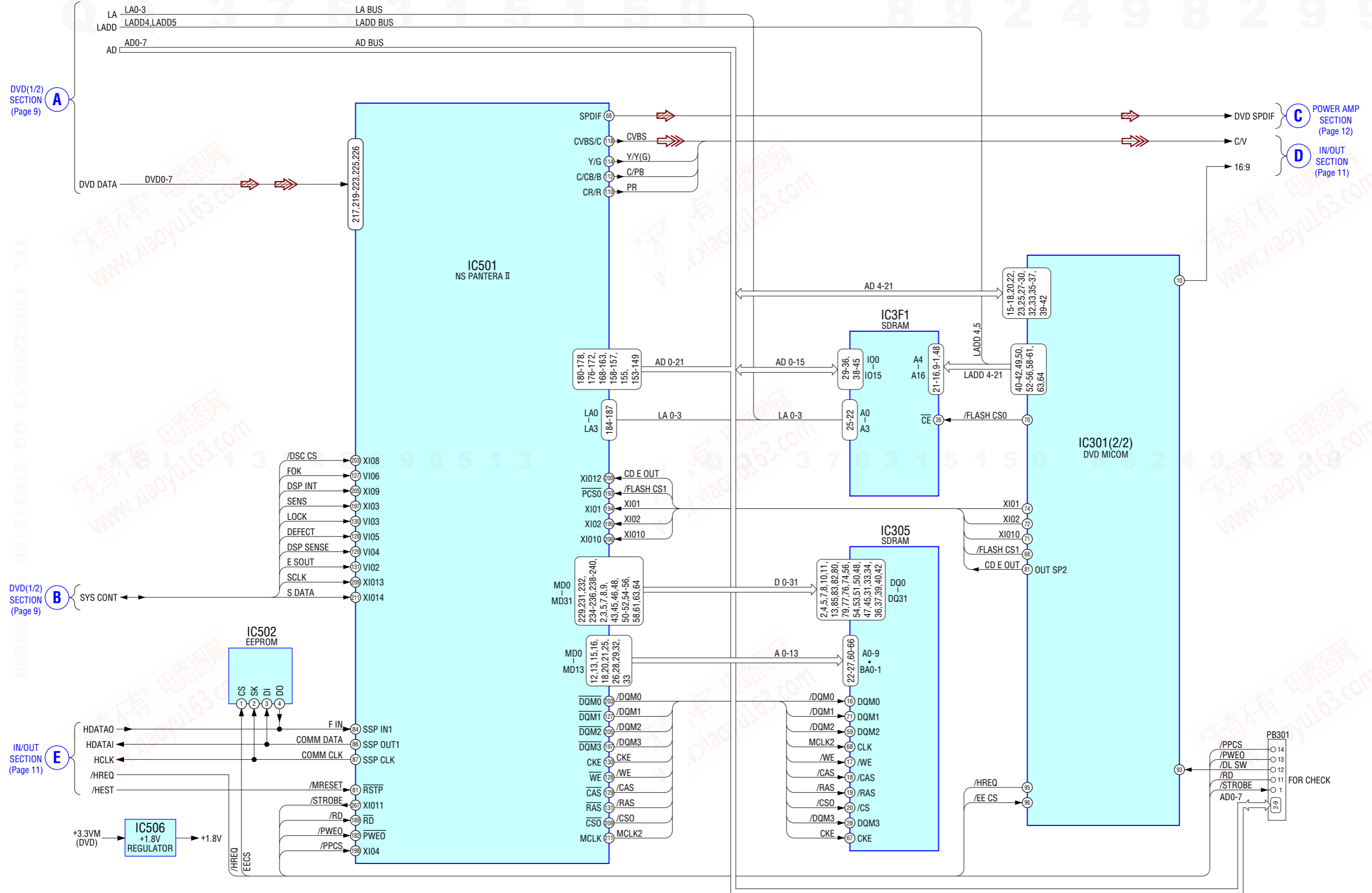


A TO DVD (2/2) SECTION (Page 10)

B TO DVD (2/2) SECTION (Page 10)

• Signal path  
 : CD  
 : DVD

3-2. BLOCK DIAGRAM - DVD SECTION (2/2) -



DVD(1/2) SECTION (Page 9)

DVD(1/2) SECTION (Page 9)

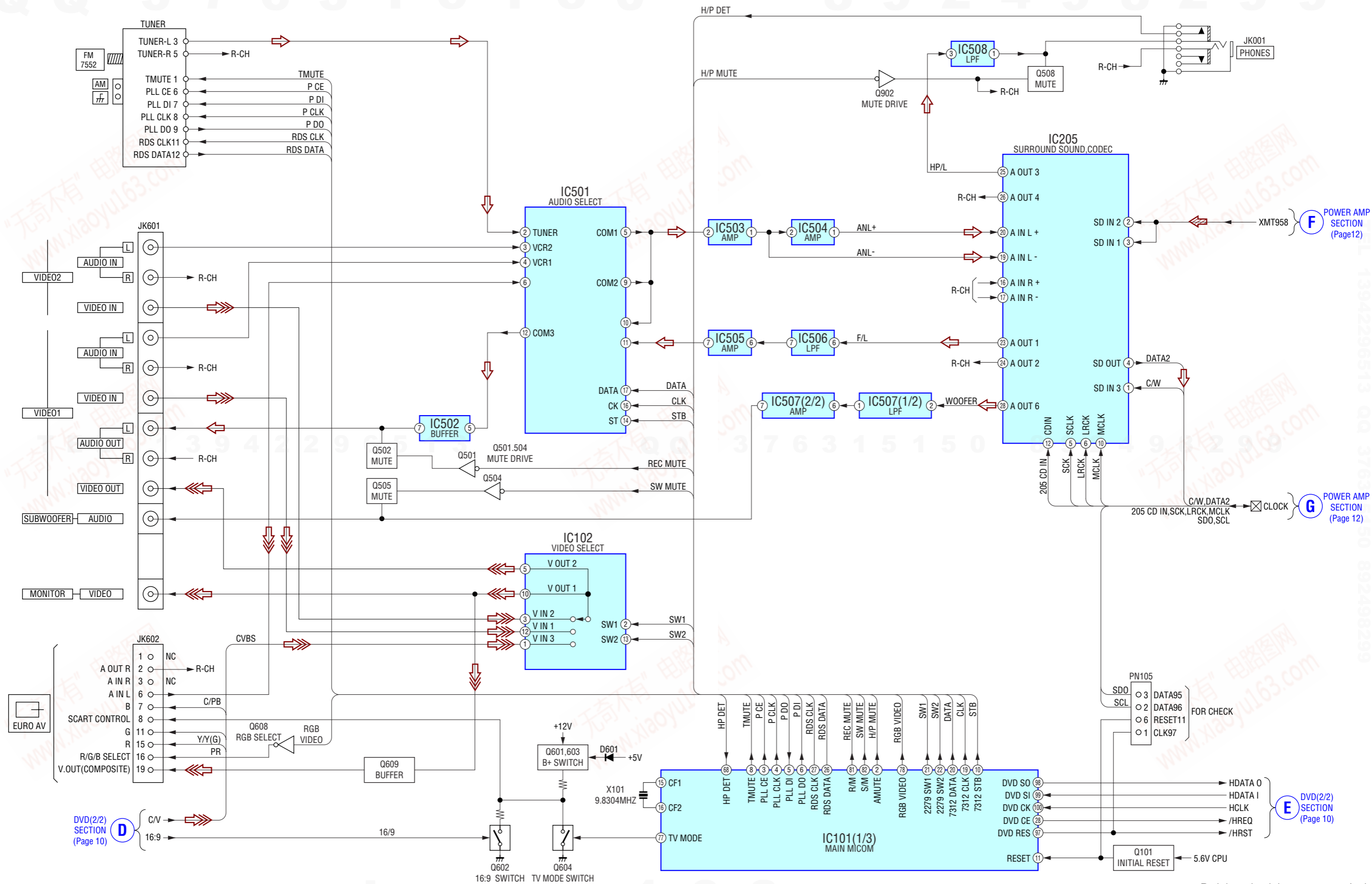
IN/OUT SECTION (Page 11)

POWER AMP SECTION (Page 12)

IN/OUT SECTION (Page 11)

- Signal path
- CD
- DVD
- VIDEO

3-3. BLOCK DIAGRAM - IN/OUT SECTION -



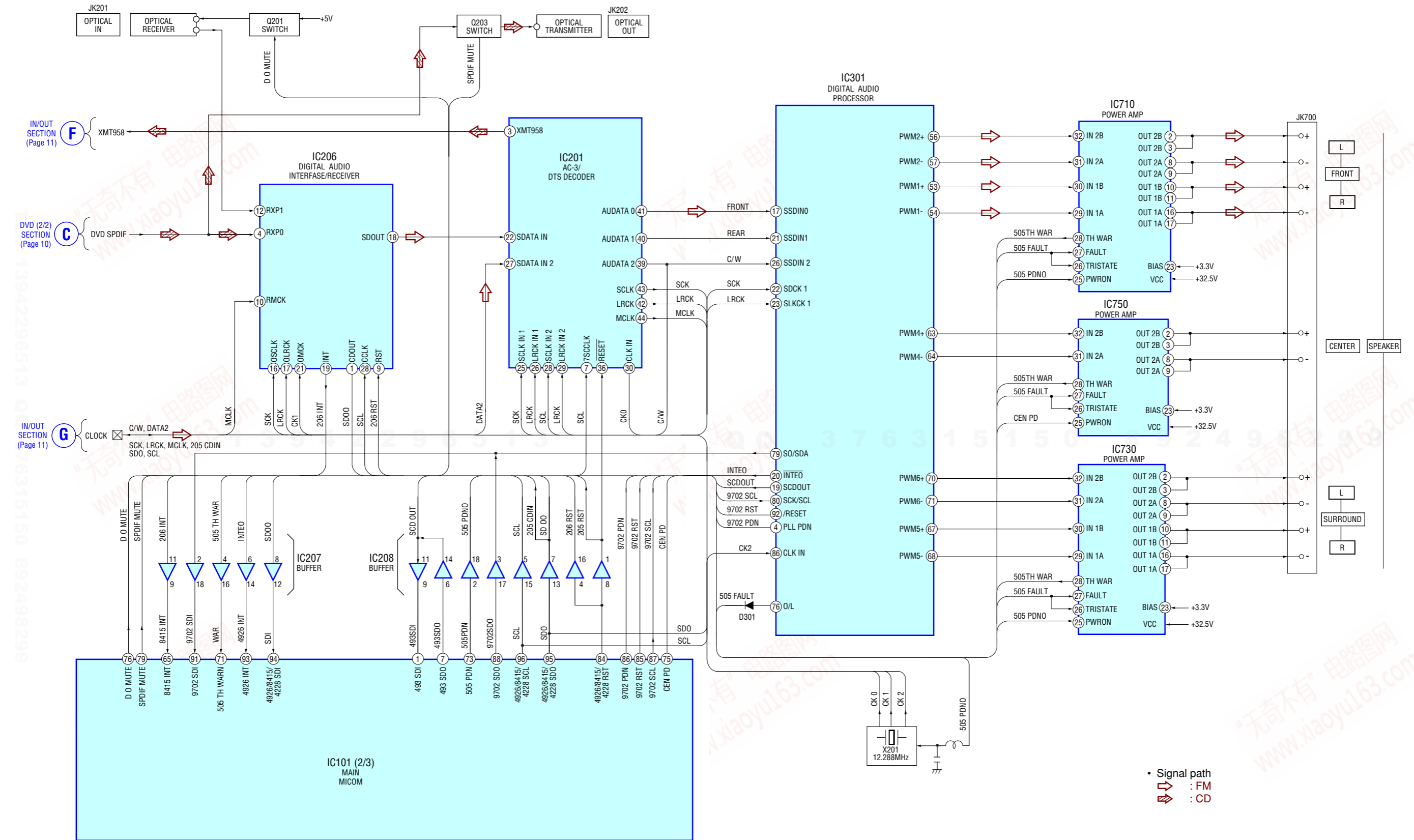
F POWER AMP SECTION (Page 12)

G POWER AMP SECTION (Page 12)

E DVD(2/2) SECTION (Page 10)

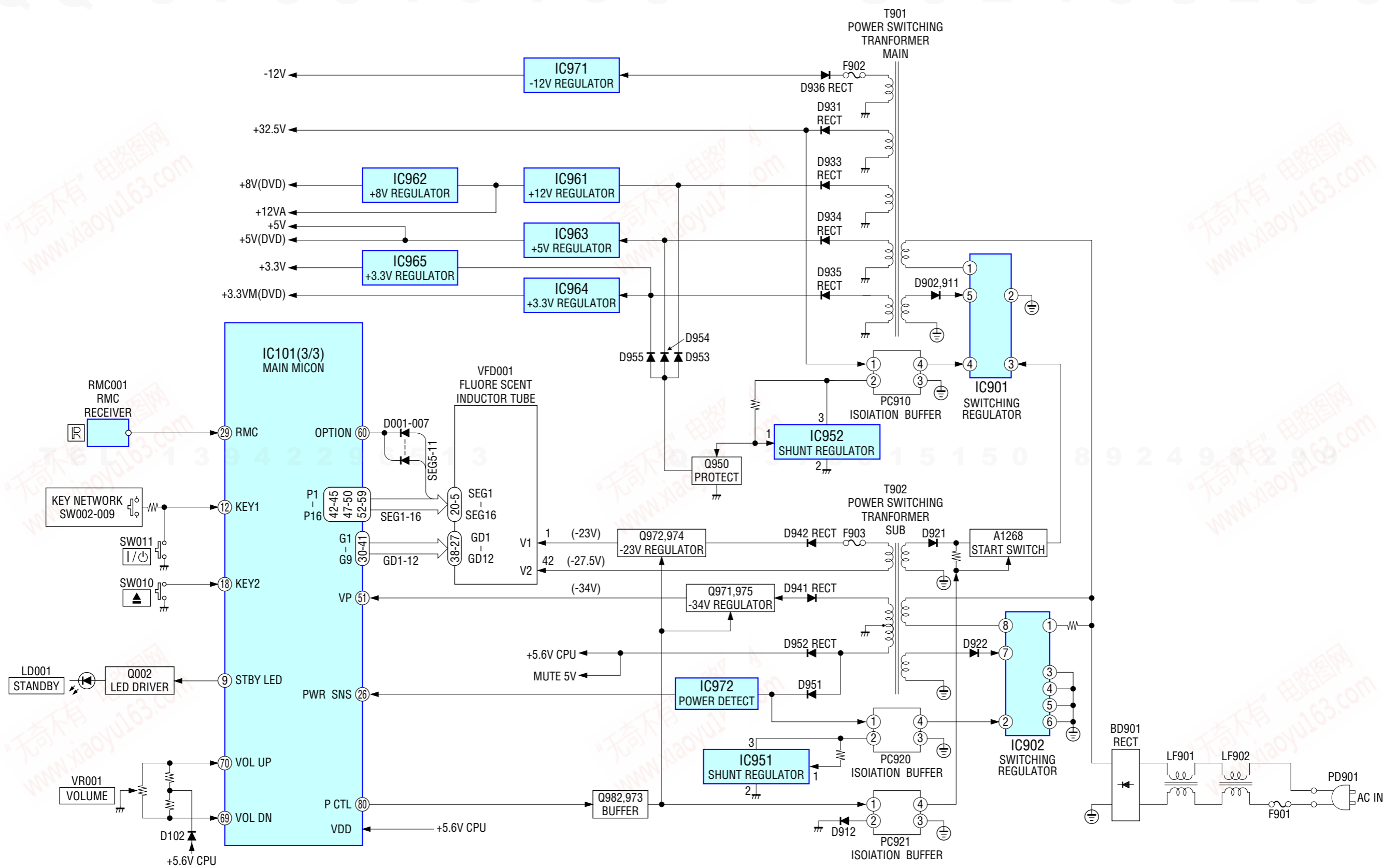
- R-ch is omitted due to same as L-ch.
- Signal path
- ➡ : FM
- ➡ : CD
- ➡ : VIDEO

3-4. BLOCK DIAGRAM - POWER AMP SECTION -

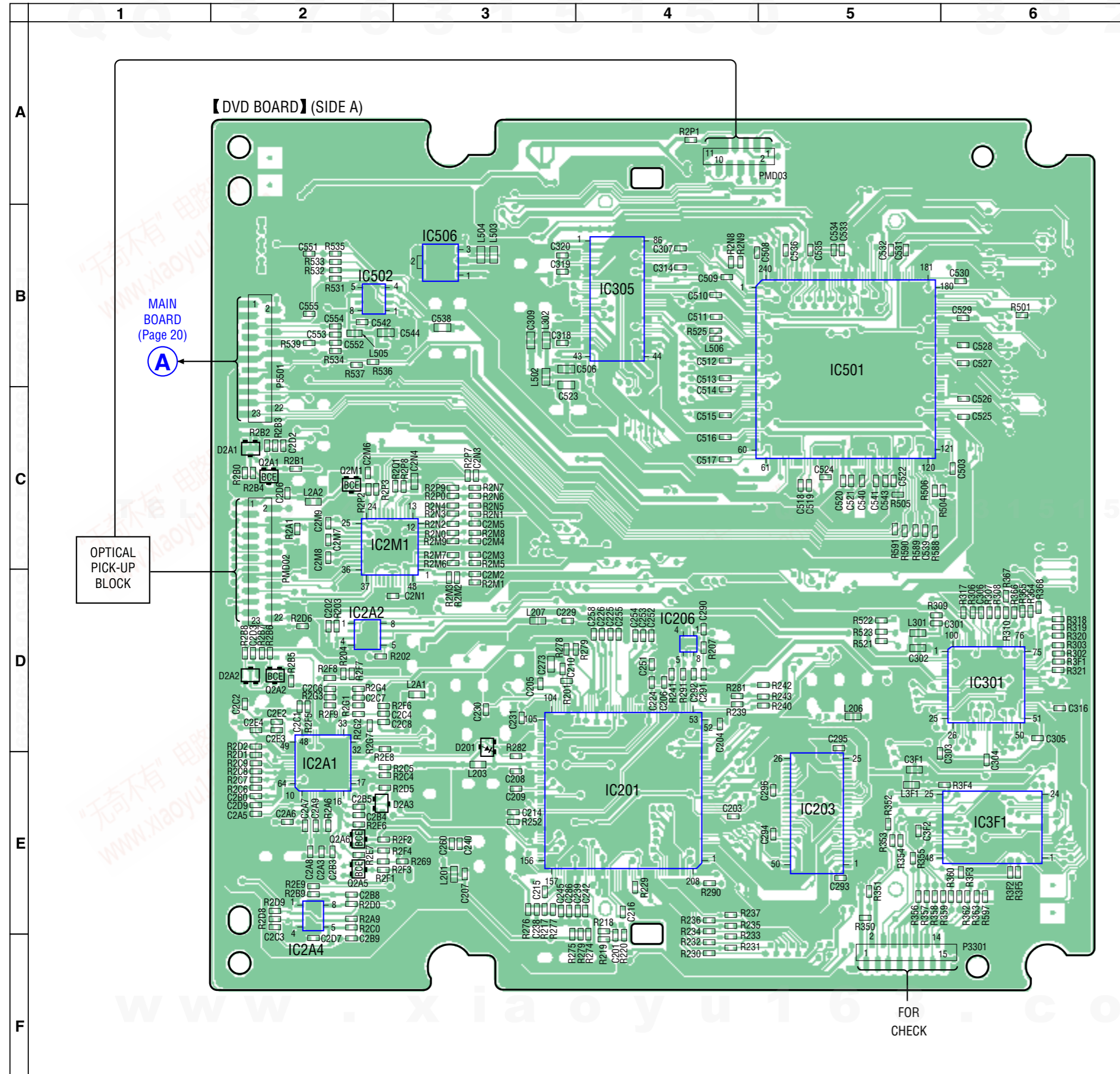




3-5. BLOCK DIAGRAM - DISPLAY/POWER SECTION -



3-6. PRINTED WIRING BOARD – DVD SECTION (SIDE A) –

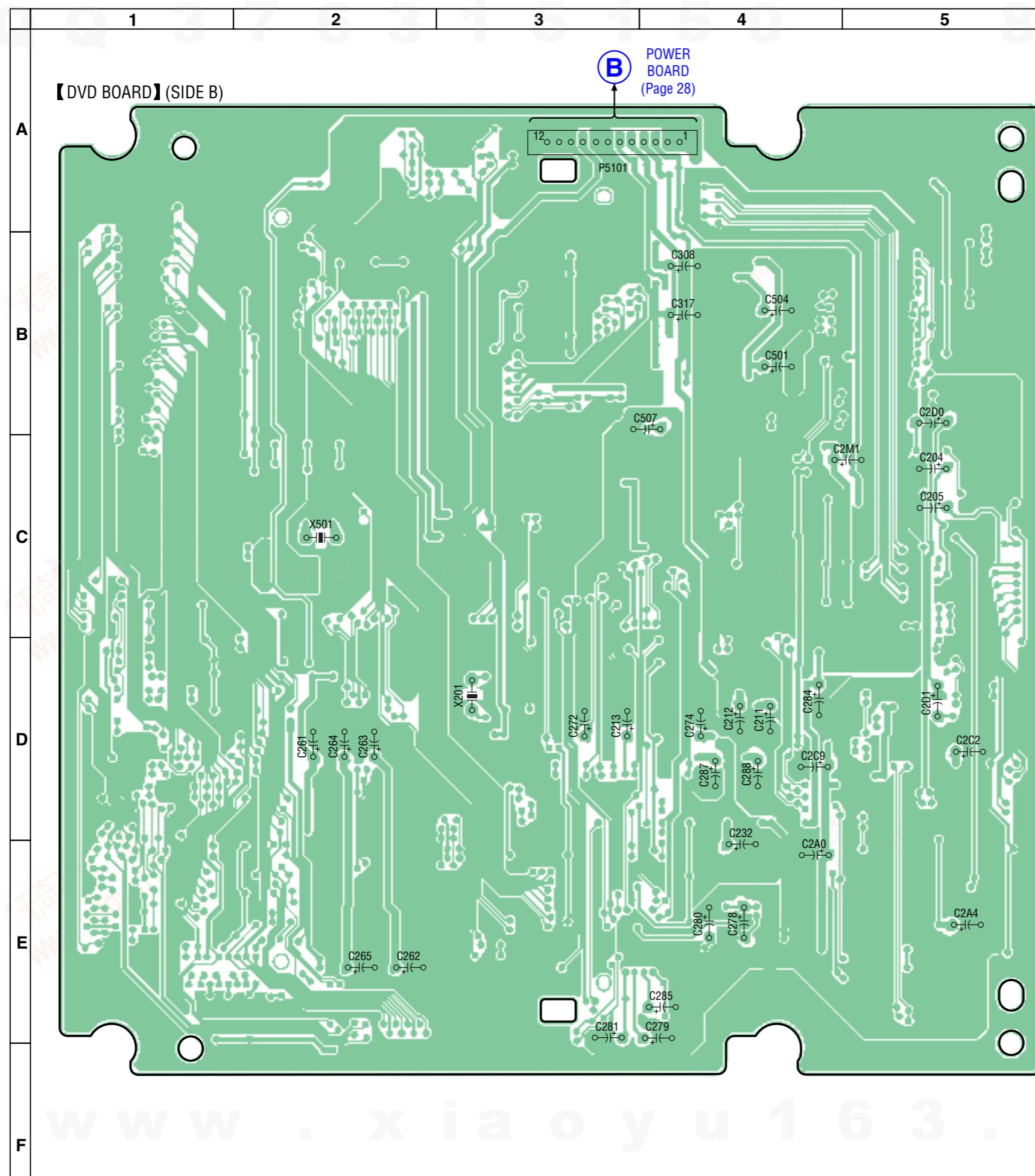


• Semiconductor Location

Ref. No.	Location
D201	D-3
D2A1	C-2
D2A2	D-2
D2A3	E-2
IC201	E-4
IC203	E-5
IC206	D-4
IC2A1	E-2
IC2A2	D-2
IC2A4	E-2
IC2M1	C-2
IC301	D-6
IC305	B-4
IC3F1	E-6
IC501	B-5
IC502	B-2
IC506	B-3
Q2A1	C-2
Q2A2	D-2
Q2A5	E-2
Q2A6	E-2
Q2M1	C-2



3-7. PRINTED WIRING BOARD – DVD SECTION (SIDE B) –



TEL 13942296513 QQ 376315150 892498299

TEL 13942296513 QQ 376315150 892498299

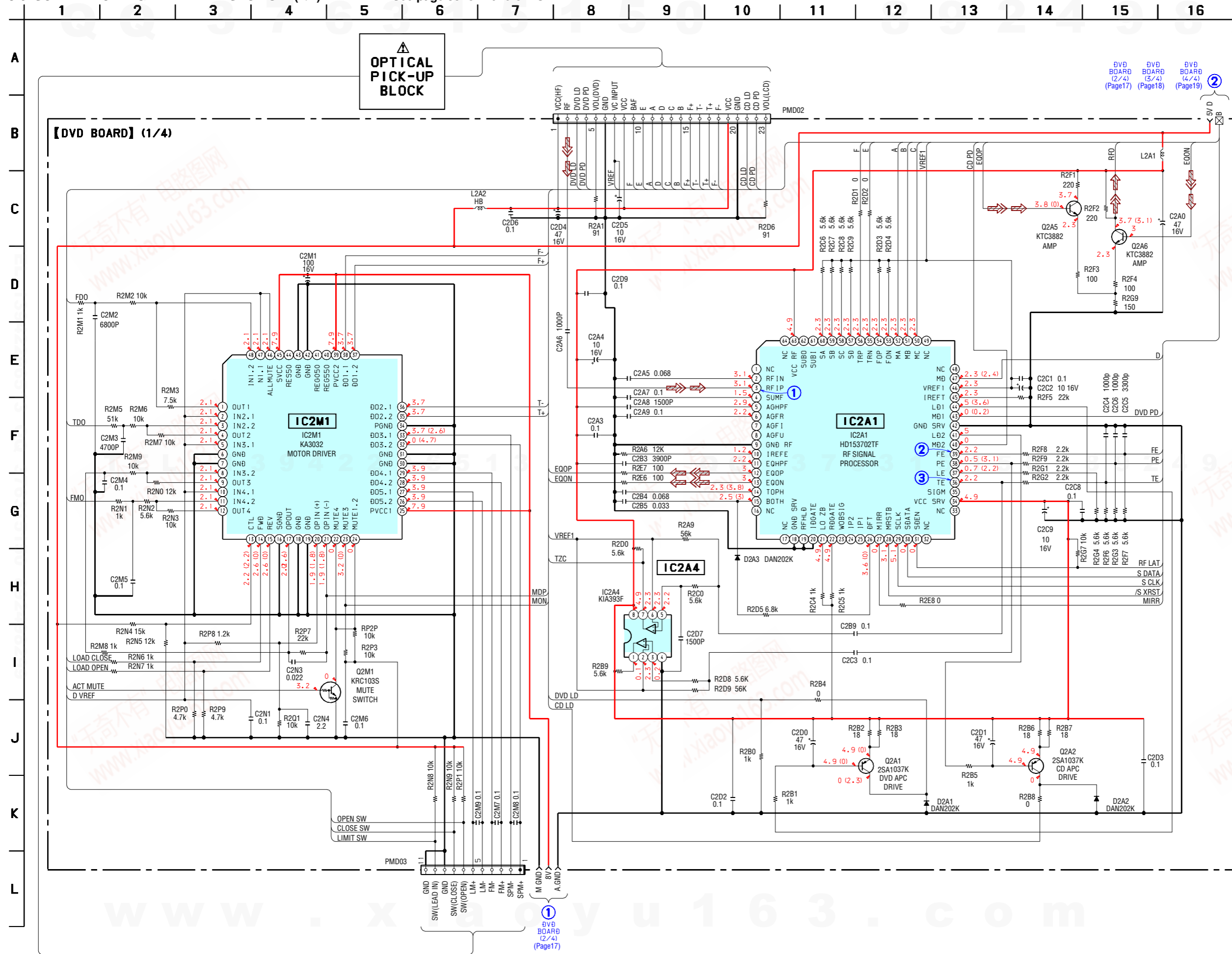
"无奇不有" 电路图网  
www.xiaoyu163.com

"无奇不有" 电路图网  
www.xiaoyu163.com

"无奇不有" 电路图网  
www.xiaoyu163.com

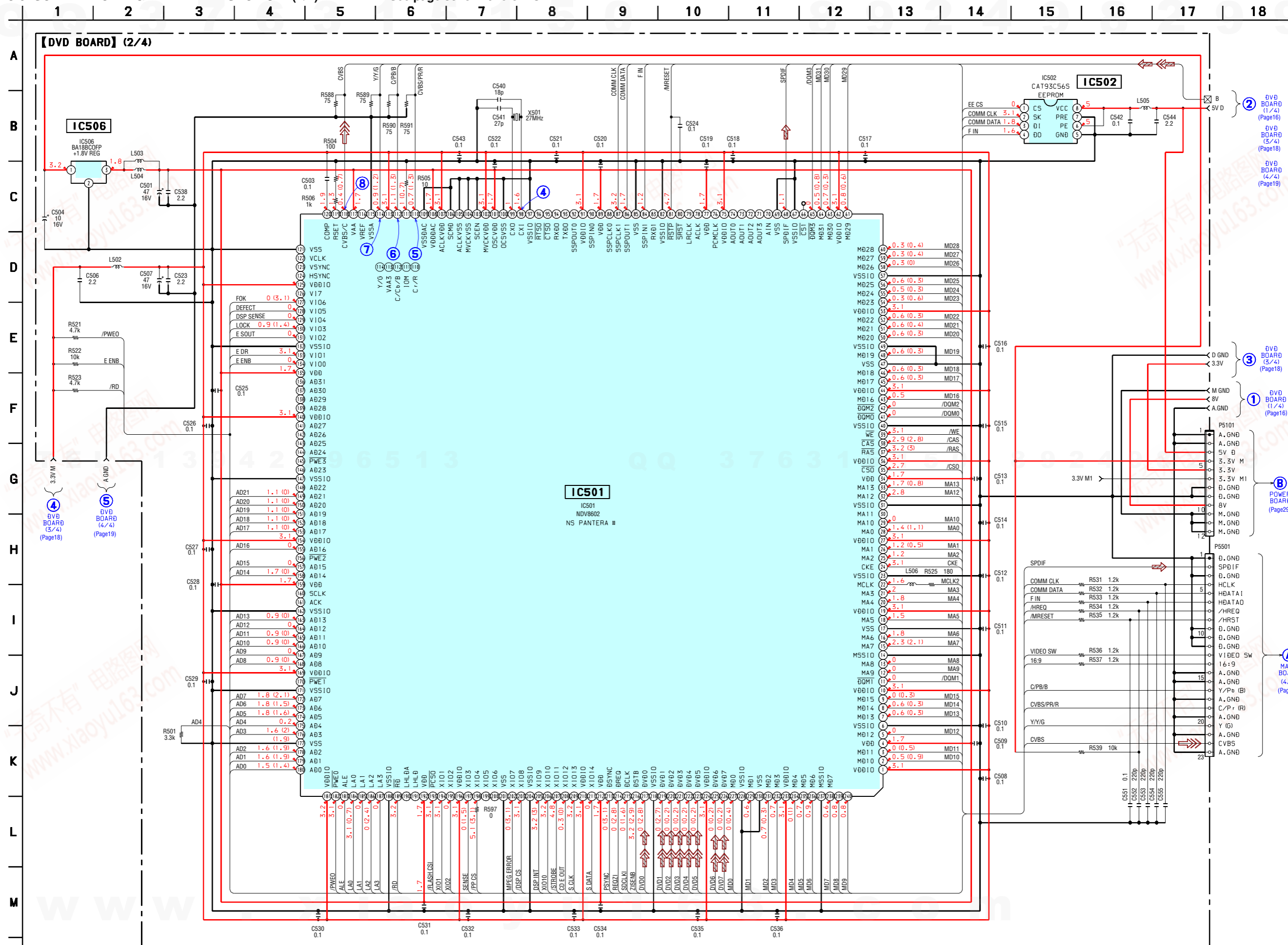
3-8. SCHEMATIC DIAGRAM - DVD SECTION (1/4)

• See page 30 for waveforms.



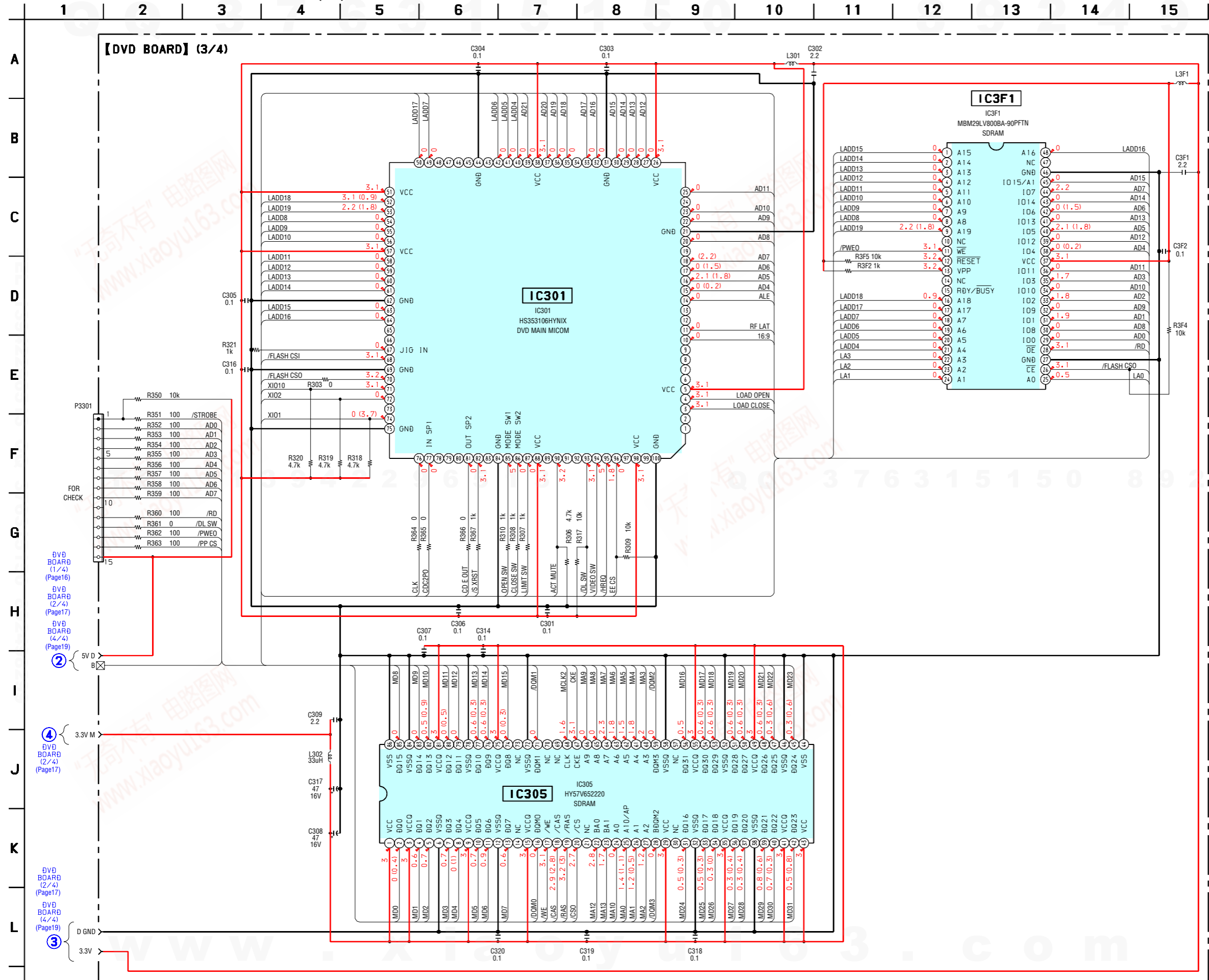
3-9. SCHEMATIC DIAGRAM - DVD SECTION (2/4)

See page 30 for waveforms.



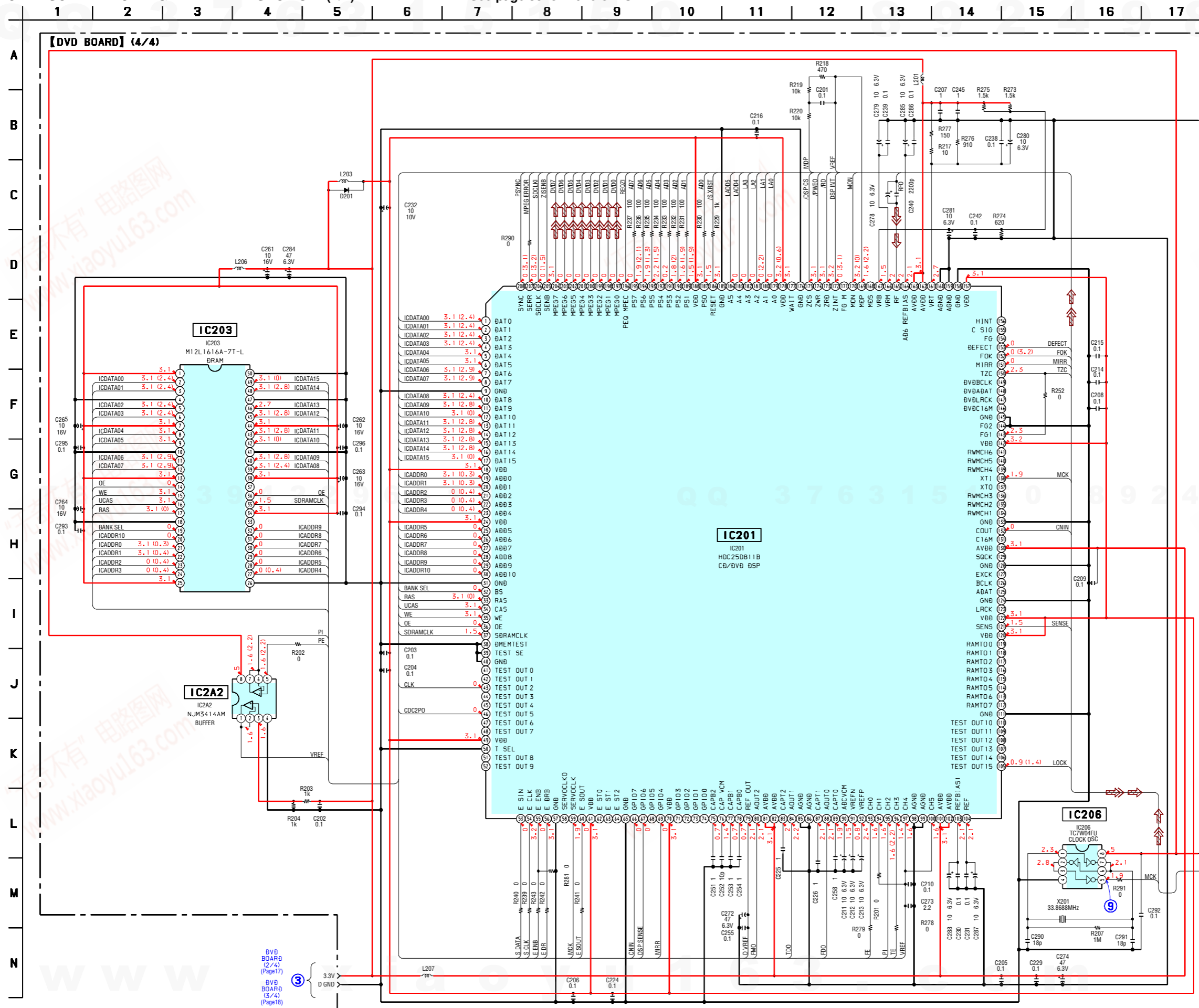


3-10. SCHEMATIC DIAGRAM – DVD SECTION (3/4)–



3-11. SCHEMATIC DIAGRAM – DVD SECTION (4/4)–

• See page 30 for waveforms.



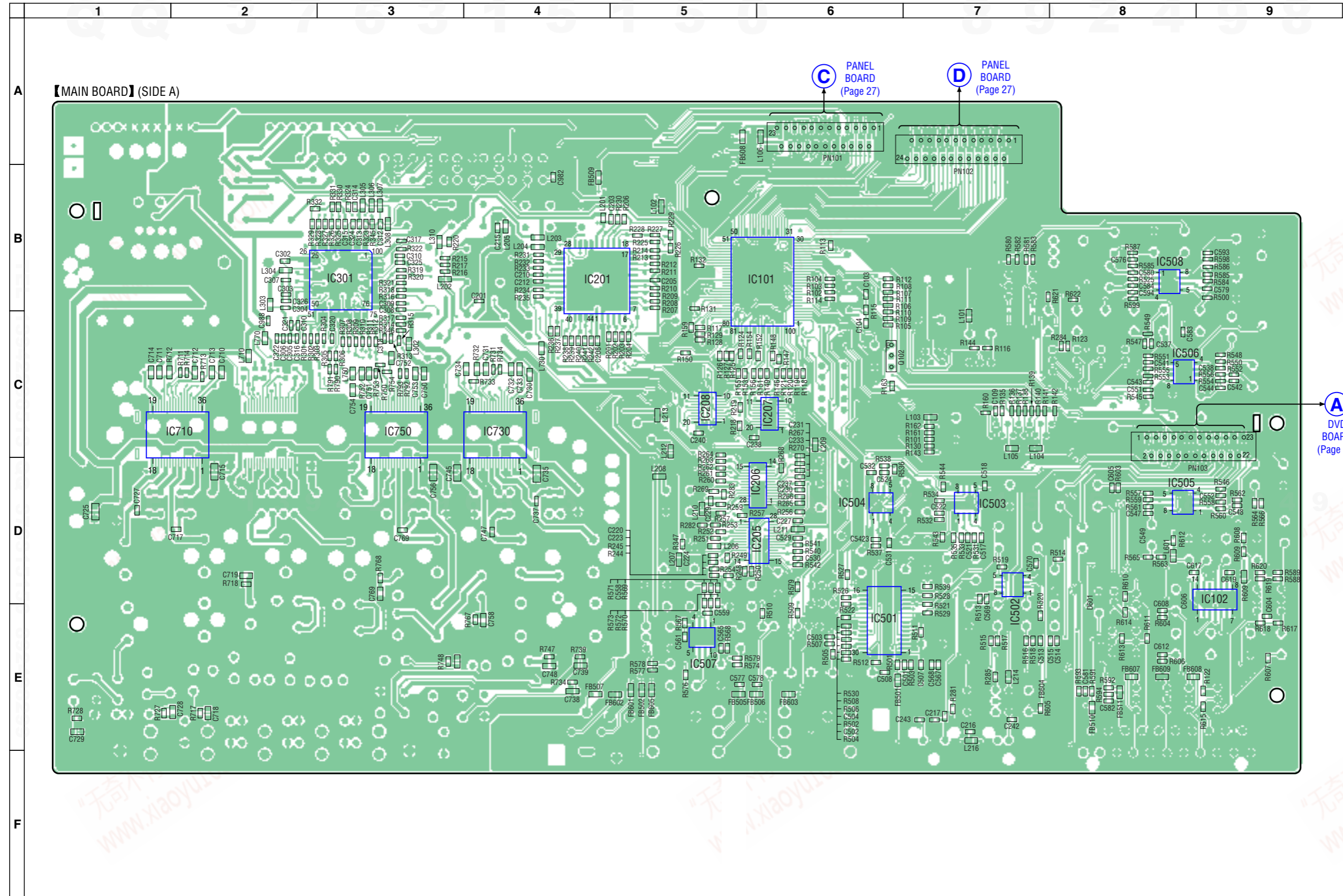
⑤  
DVD BOARD (2/4)  
(Page17)

②  
DVD BOARD (1/4)  
(Page16)

③  
DVD BOARD (2/4)  
(Page17)

④  
DVD BOARD (3/4)  
(Page18)

3-12. PRINTED WIRING BOARD – MAIN SECTION (SIDE A) –

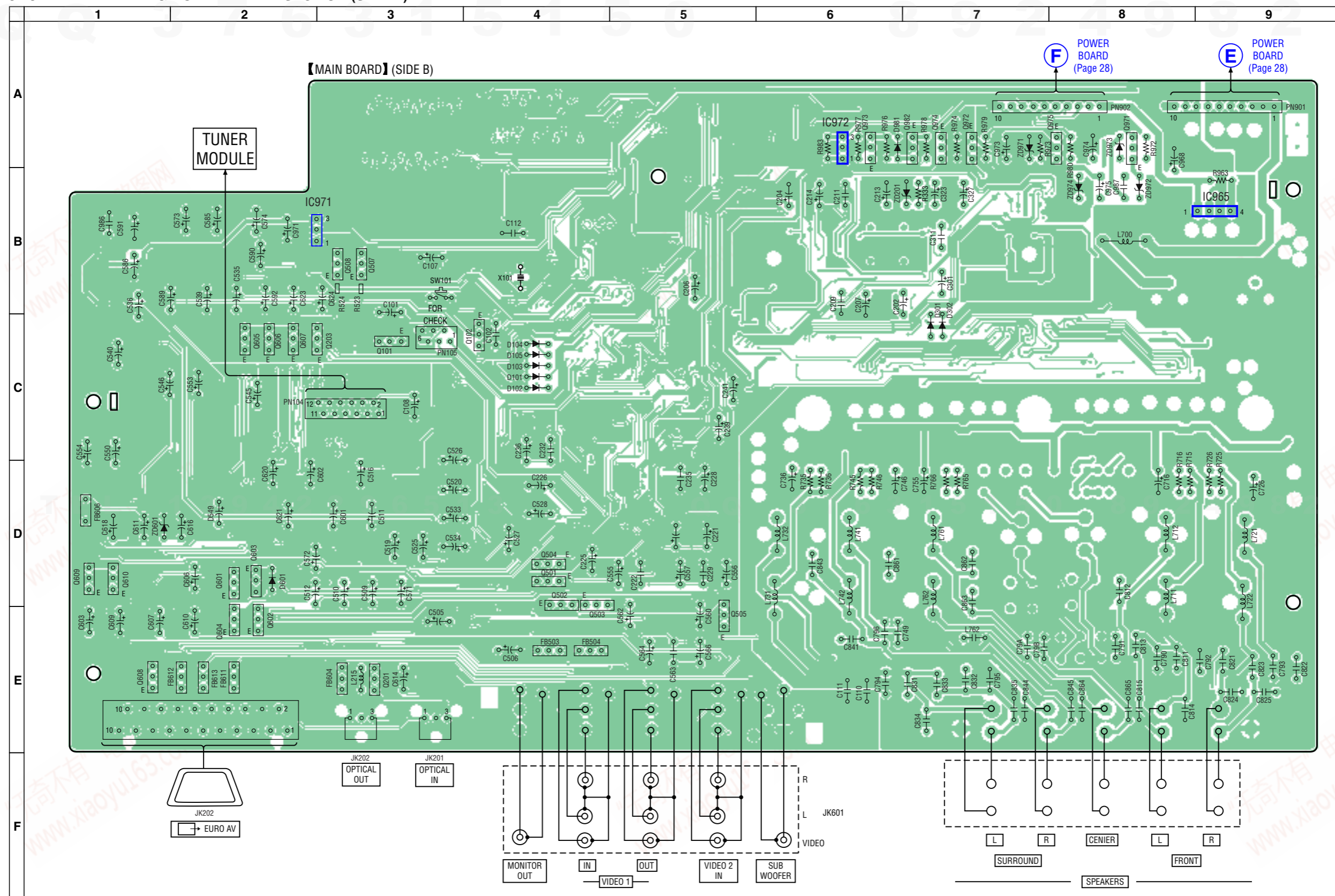


• Semiconductor Location

Ref. No.	Location
IC101	B-6
IC102	D-9
IC201	B-4
IC205	D-5
IC206	D-5
IC207	C-6
IC208	C-5
IC301	B-3
IC501	E-6
IC502	D-7
IC503	D-7
IC504	D-6
IC505	D-8
IC506	C-8
IC507	E-5
IC508	B-8
IC710	C-2
IC730	C-4
IC750	C-3
Q102	C-6



3-13. PRINTED WIRING BOARD – MAIN SECTION (SIDE B) –

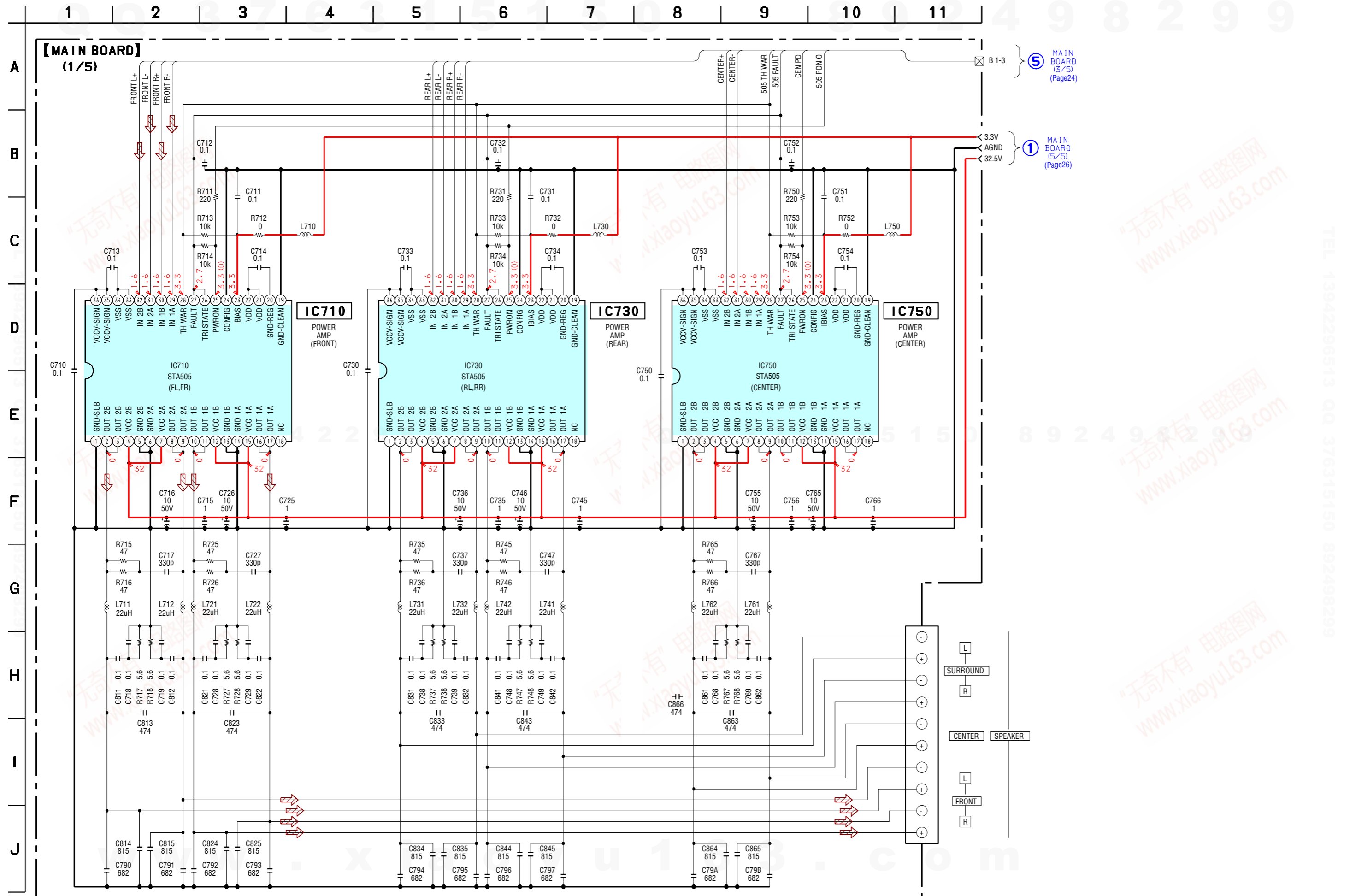


• Semiconductor Location

Ref. No.	Location
D101	C-4
D102	C-4
D103	C-4
D104	C-4
D105	C-4
D301	C-7
D302	C-7
D601	D-2
D981	A-6
IC965	B-9
IC971	B-2
IC972	A-6
Q101	C-3
Q203	C-3
Q501	D-4
Q502	D-4
Q503	D-4
Q504	D-4
Q507	B-3
Q508	B-3
Q601	D-2
Q602	E-2
Q603	D-2
Q604	E-2
Q605	C-2
Q606	C-2
Q607	C-2
Q608	E-1
Q609	D-1
Q610	D-1
Q971	A-8
Q972	A-7
Q974	A-7
Q975	A-8
Q982	A-7
ZD201	B-7
ZD601	D-1
ZD971	A-7
ZD972	B-8
ZD973	A-8
ZD974	B-8

TEL: 13942296513 QQ: 376315150 892408299

3-14. SCHEMATIC DIAGRAM - MAIN SECTION (1/5) -

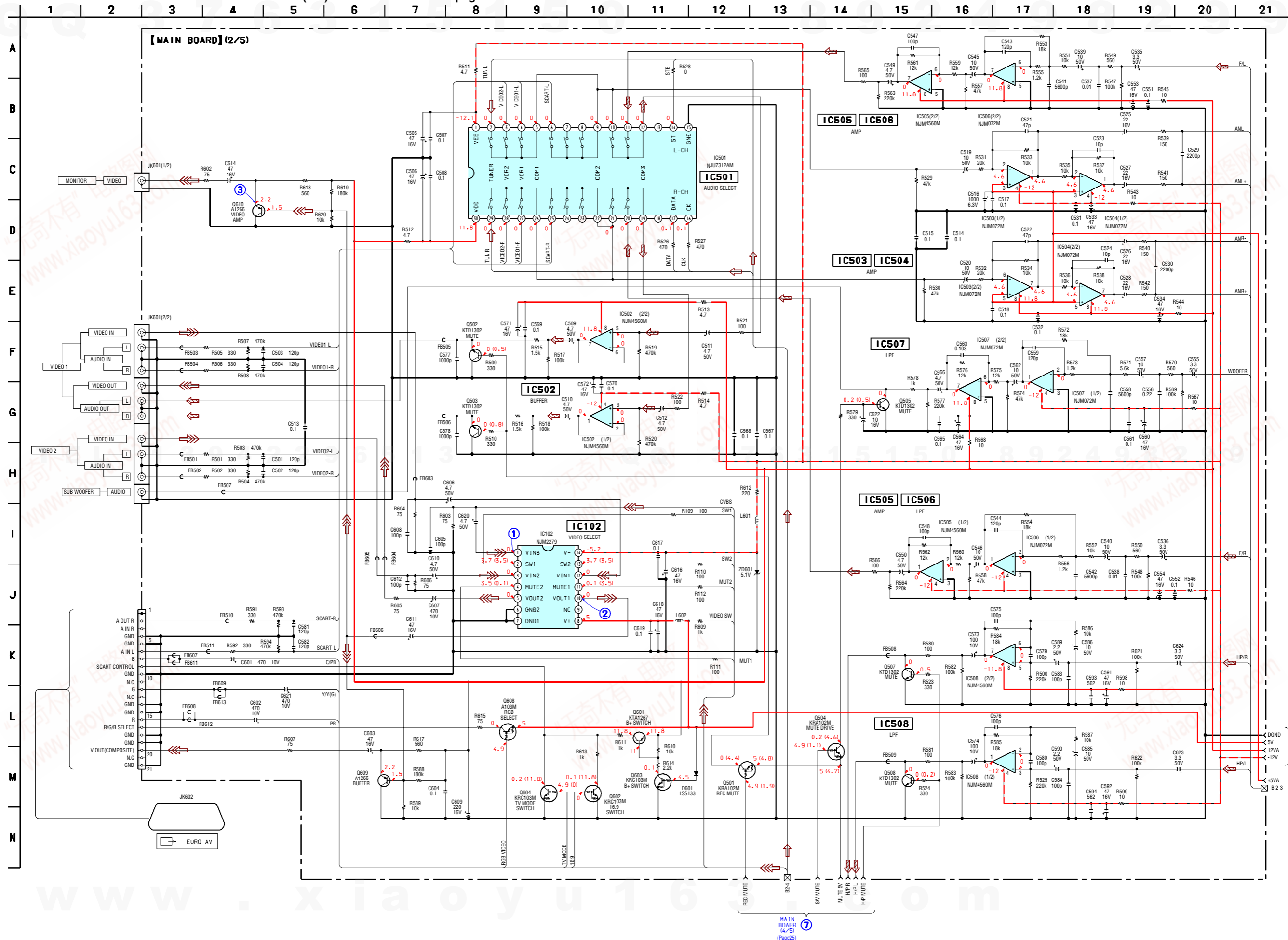


⑤ MAIN BOARD (3/5) (Page24)

① MAIN BOARD (5/5) (Page26)

3-15. SCHEMATIC DIAGRAM - MAIN SECTION (2/5) -

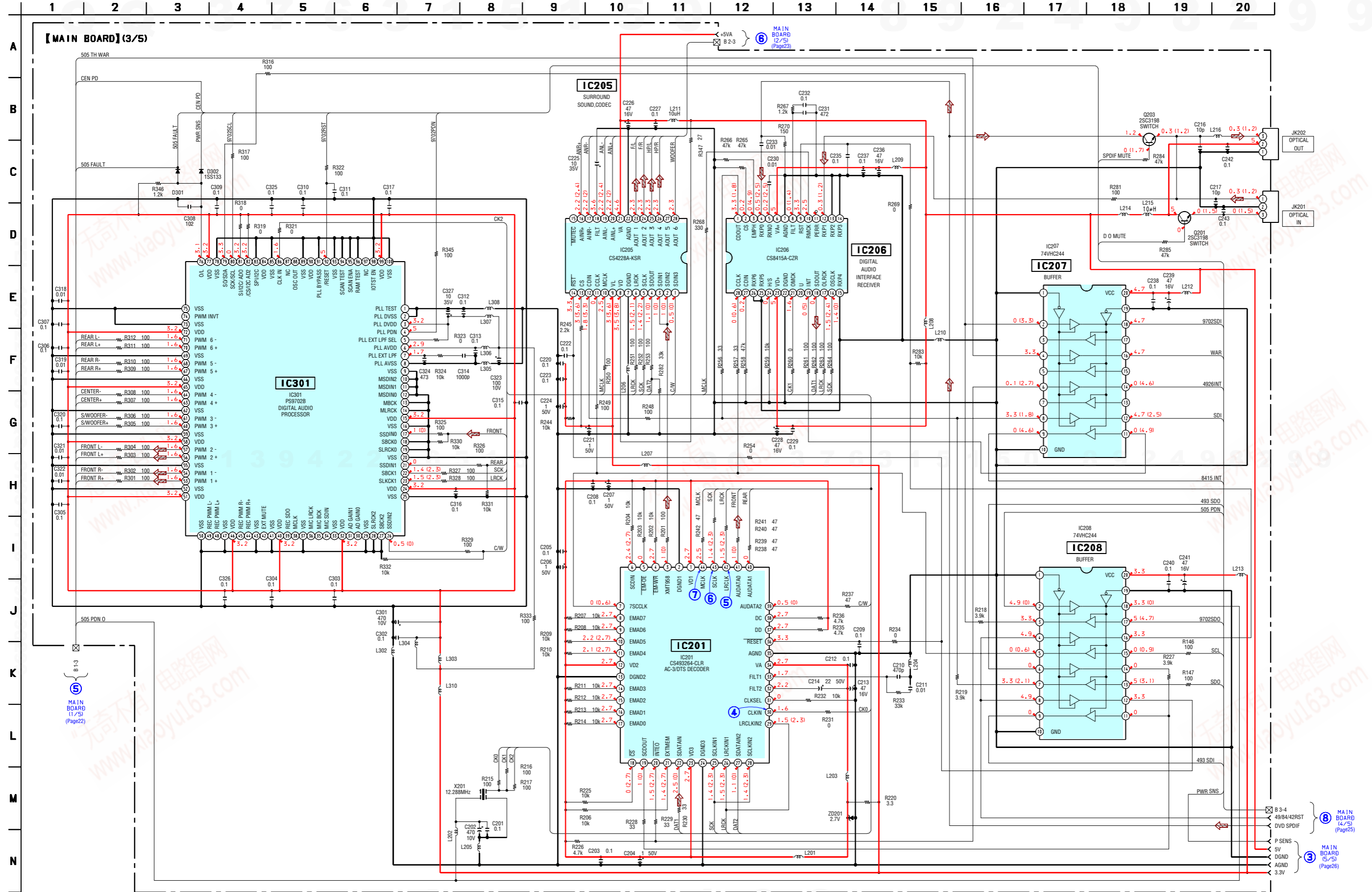
• See page 30 for waveforms.





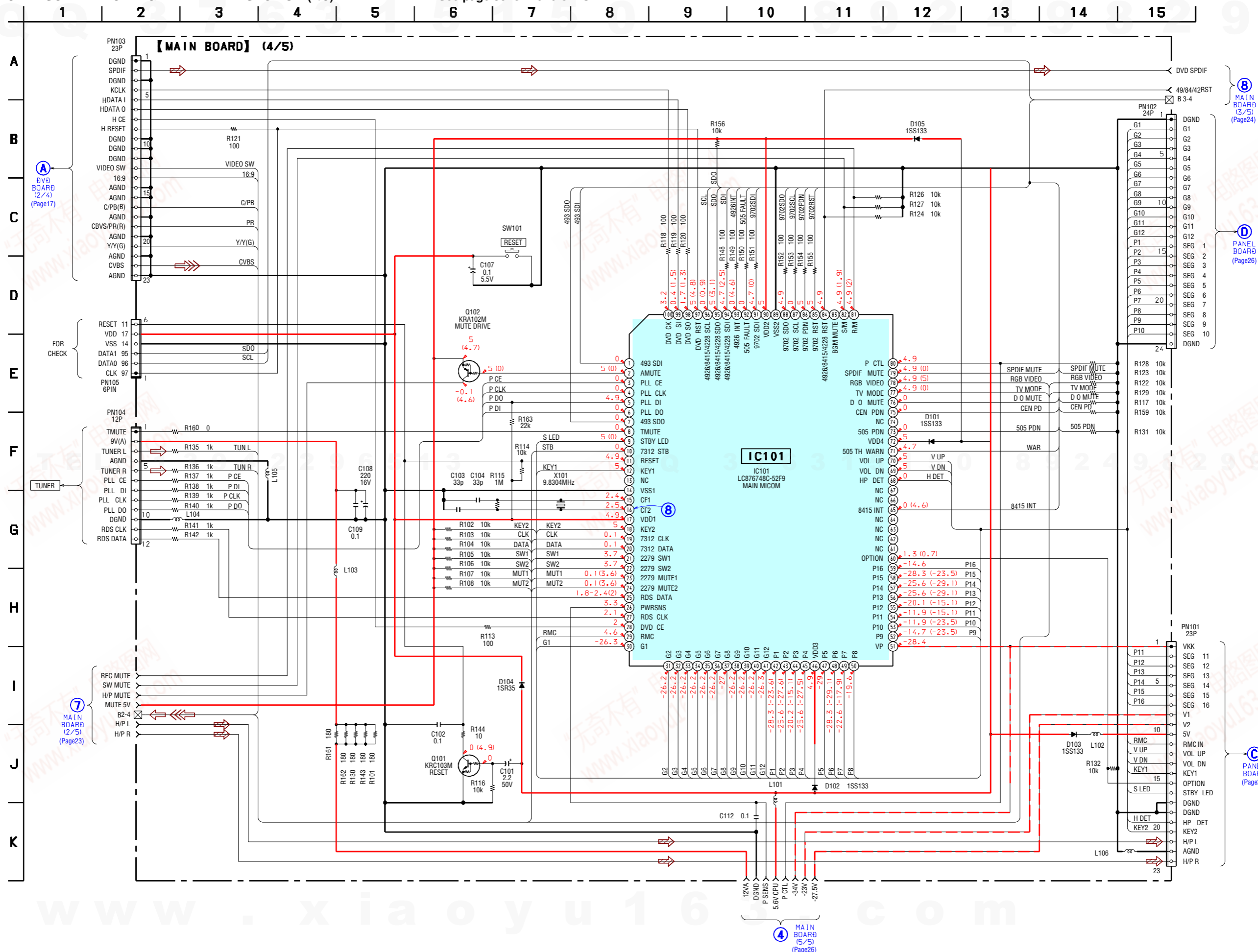
3-16. SCHEMATIC DIAGRAM - MAIN SECTION (3/5) -

• See page 30 for waveforms.

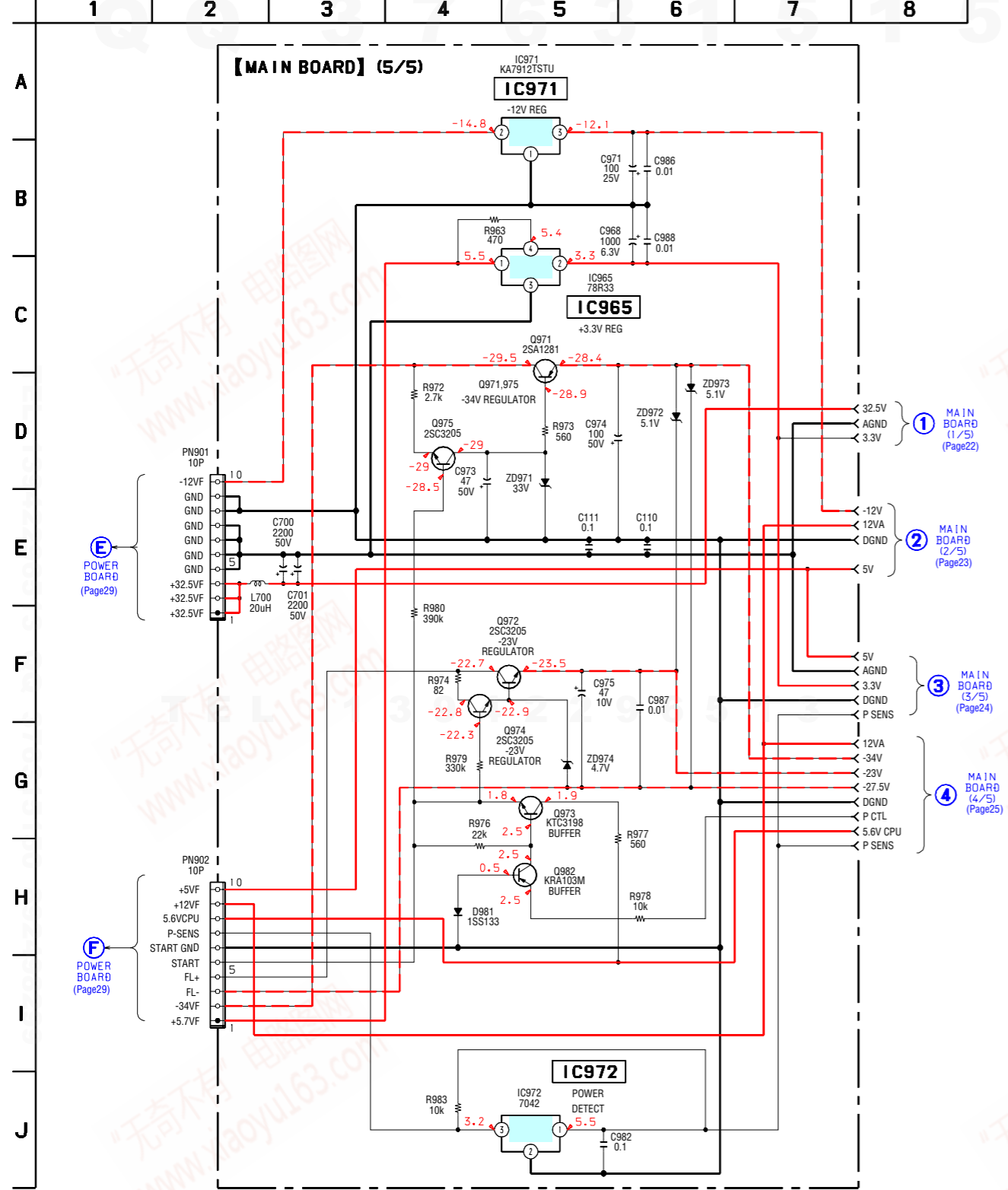


3-17. SCHEMATIC DIAGRAM – MAIN SECTION (4/5) –

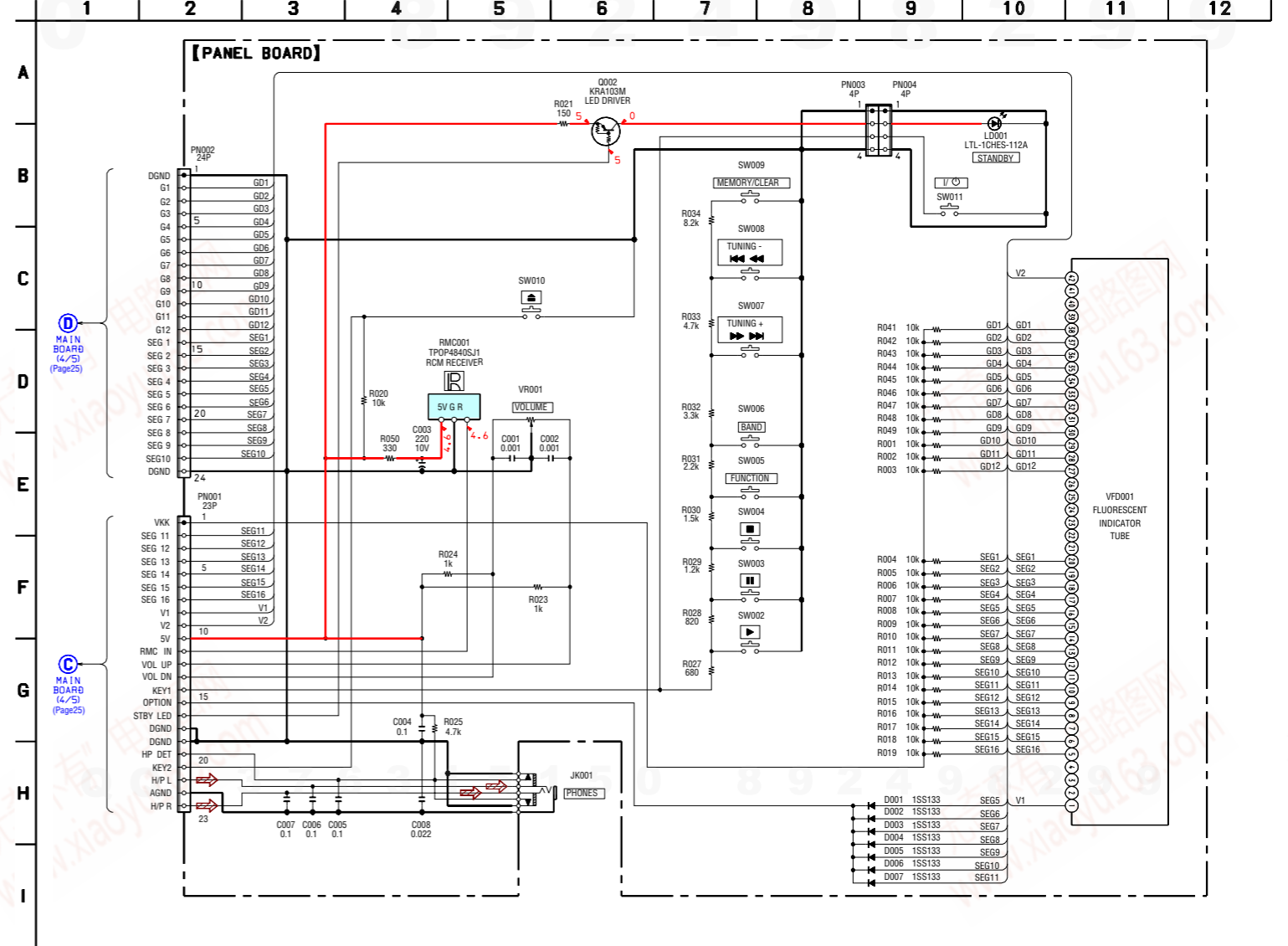
• See page 30 for waveforms.



3-18. SCHEMATIC DIAGRAM – MAIN SECTION (5/5) –

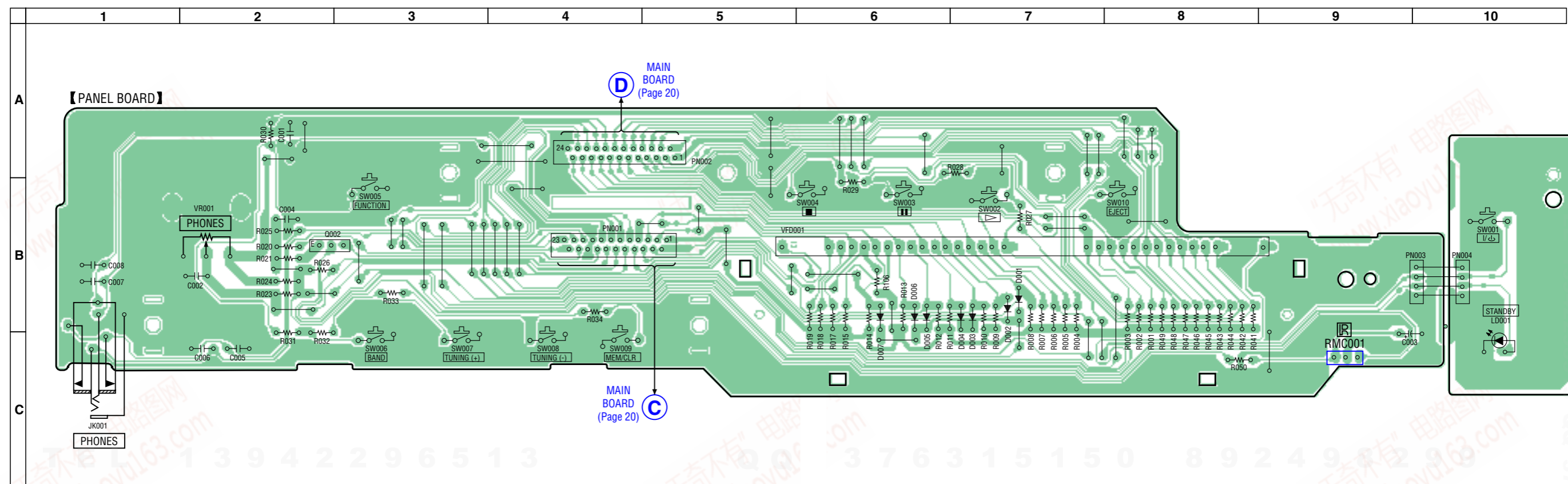


3-19. SCHEMATIC DIAGRAM – PANEL SECTION –





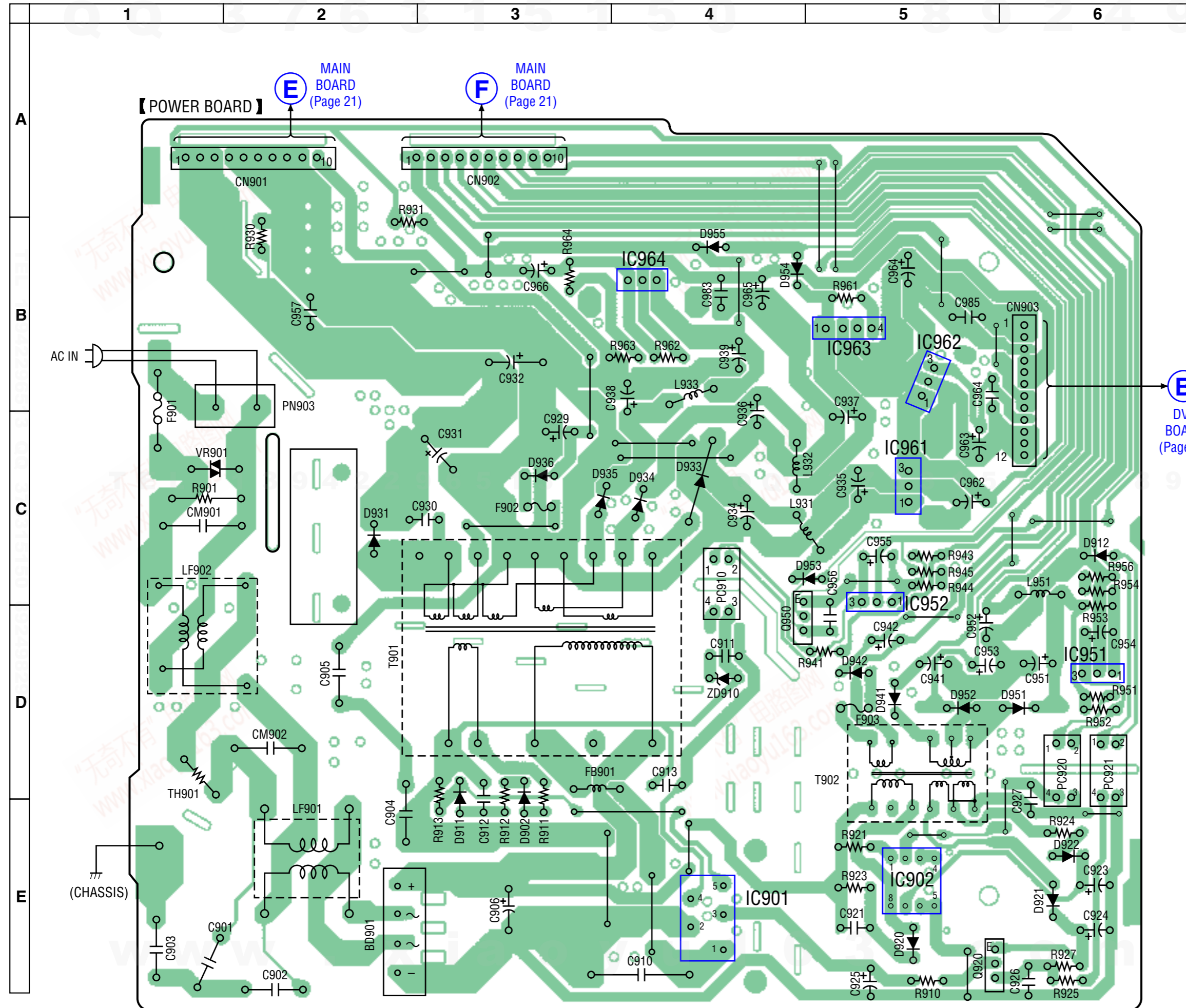
3-20. PRINTED WIRING BOARD – PANEL SECTION –



• Semiconductor Location

Ref. No.	Location
D001	B-7
D002	B-7
D003	B-7
D004	B-7
D005	B-6
D006	B-6
D007	B-6

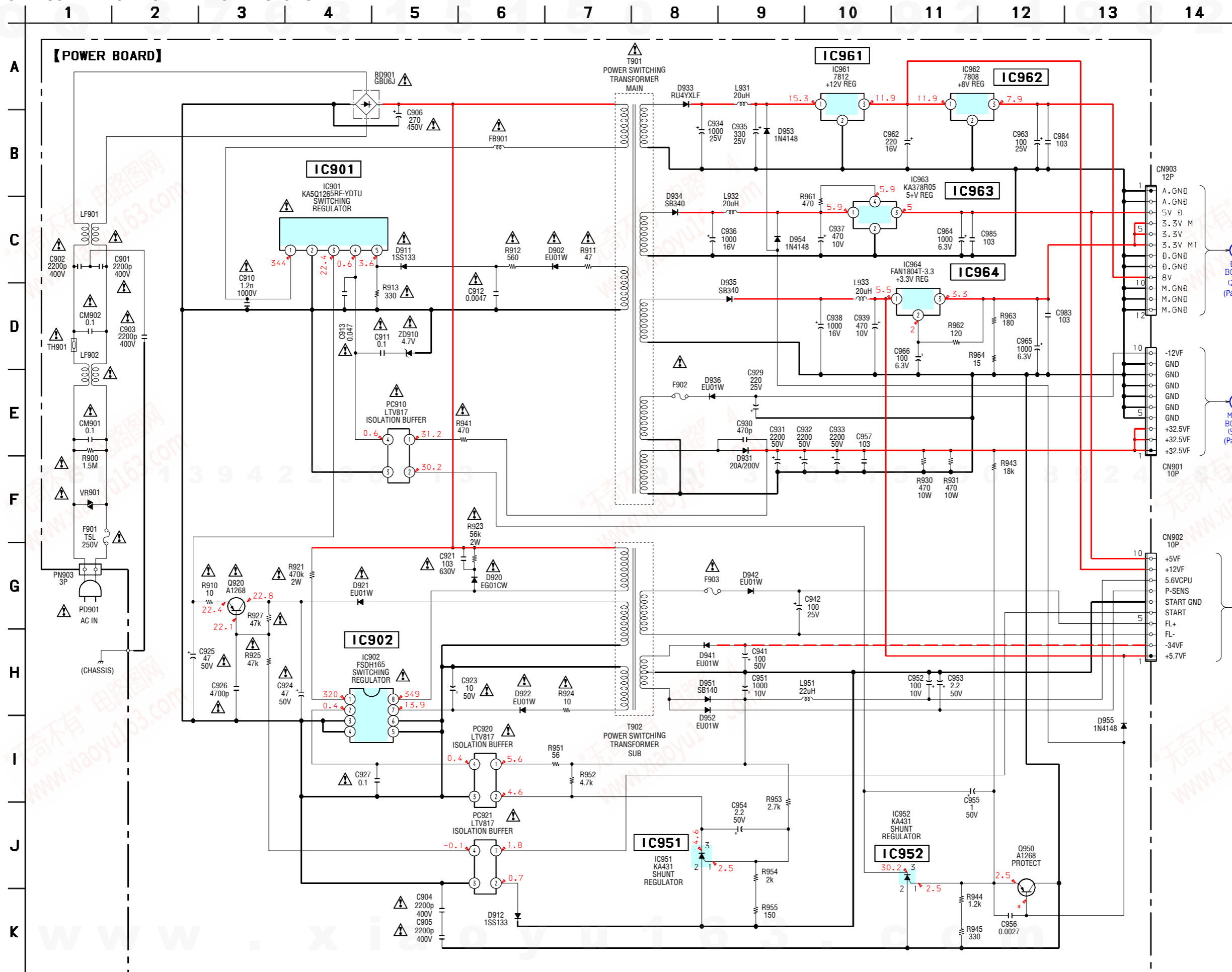
3-21. PRINTED WIRING BOARD – POWER SECTION –



• Semiconductor Location

Ref. No.	Location
D902	E-3
D911	E-3
D912	C-6
D920	E-5
D921	E-6
D922	E-6
D931	C-2
D933	C-4
D934	C-4
D935	C-3
D936	C-3
D941	D-5
D942	D-5
D951	D-6
D952	D-5
D953	C-5
D954	B-4
D955	B-4
IC901	E-4
IC902	E-5
IC951	D-6
IC952	C-5
IC961	C-5
IC962	B-5
IC963	B-5
IC964	B-4
Q920	E-5
Q950	D-5
VR901	C-1
ZD910	D-4

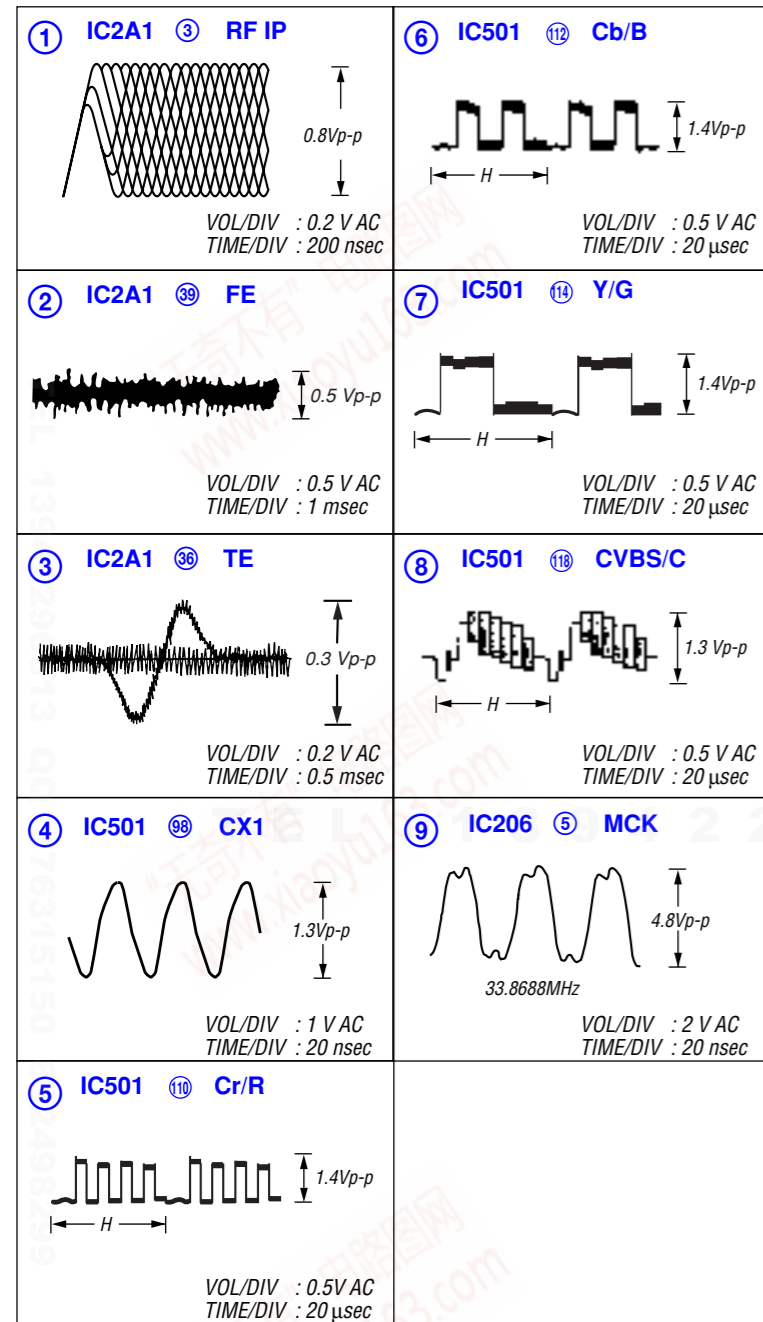
3-22. SCHEMATIC DIAGRAM - POWER SECTION -



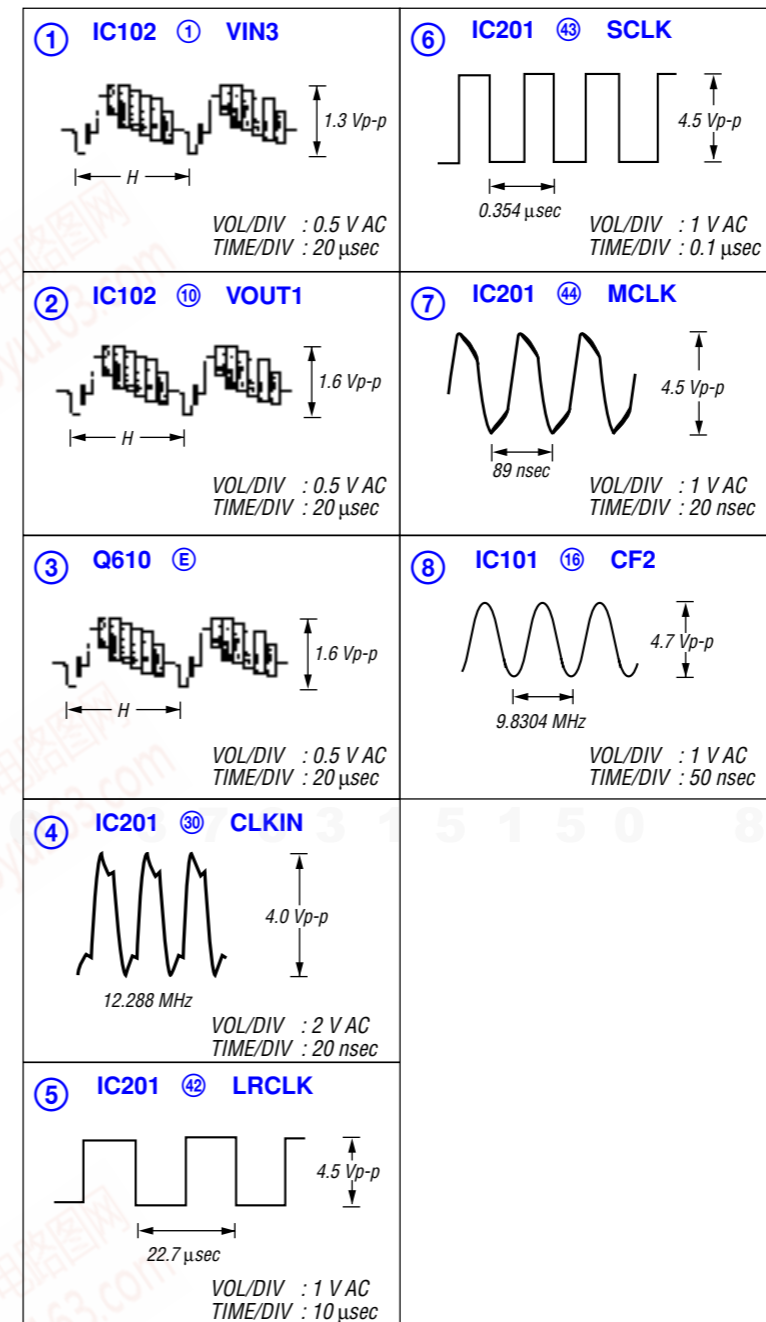


• WAVEFORMS

– DVD BOARD –



– MAIN BOARD –



## SECTION 4 EXPLODED VIEWS

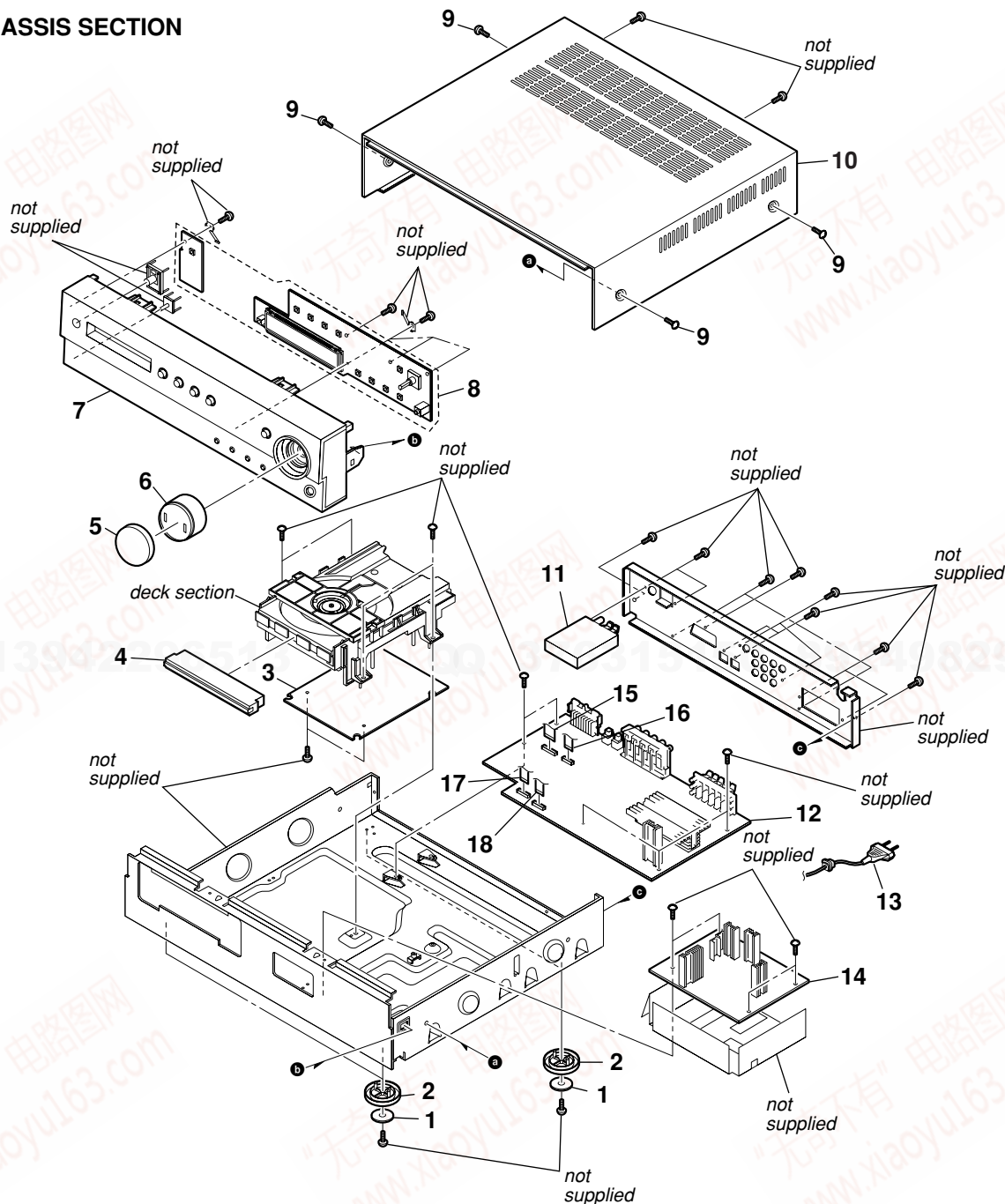
**NOTE:**

- -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.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of this parts list.

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

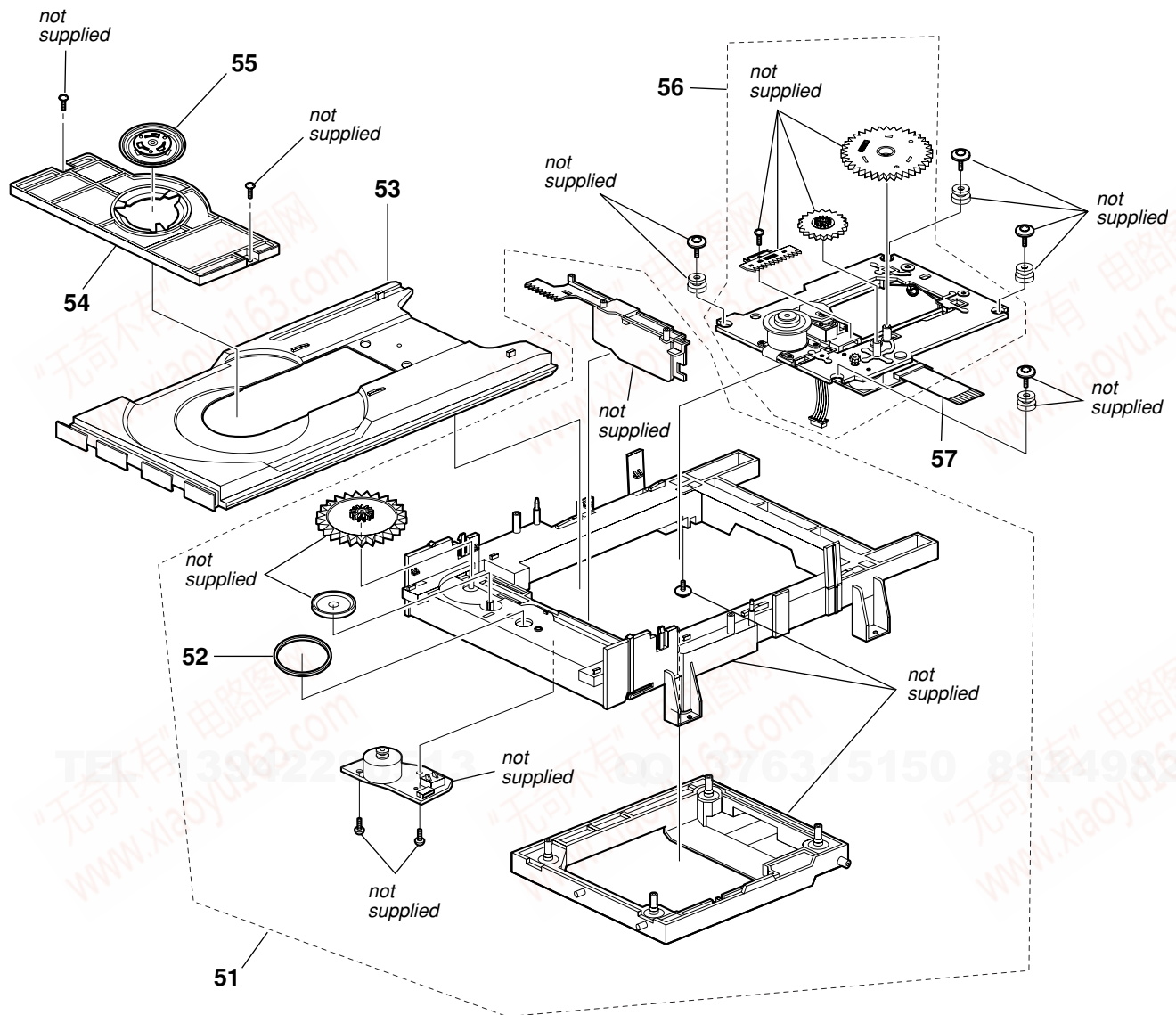
### 4-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	9-885-054-40	RUBBER FOOT		11	9-885-054-55	TUNER	
2	9-885-054-39	HOLDER (FOOT)		12	9-885-054-53	MAIN MOUNT	
3	9-885-054-49	DVD MOUNT		$\Delta$ 13	9-885-054-41	POWER CORD (AEP)	
4	9-885-054-36	DOOR ASSY		$\Delta$ 13	9-885-054-42	POWER CORD (UK)	
5	9-885-054-38	KNOB VOLUME		14	9-885-054-54	POWER MOUNT	
6	9-885-054-37	HOLDER (VOLUME)		15	9-885-054-59	CABLE, FLEXIBLE FLAT (23 CORE) (120mm)	
7	9-885-054-33	FRONT PANEL ASSY		16	9-885-054-56	CABLE, FLEXIBLE FLAT (12 CORE)	
8	9-885-054-52	PANEL MOUNT		17	9-885-054-58	CABLE, FLEXIBLE FLAT (24 CORE)	
9	9-885-054-51	SCREW 3X10		18	9-885-054-57	CABLE, FLEXIBLE FLAT (23 CORE) (310mm)	
10	9-885-054-32	CASE TOP					

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4-2. DECK SECTION



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	9-885-054-45	BASE ASSY		55	9-885-054-47	CLAMP ASSY	
52	9-885-054-50	BELT LOADING		$\triangle$ 56	9-885-054-44	PU BASE ASSY	
53	9-885-054-46	TRAY		57	9-885-054-60	CABLE, FLEXIBLE FLAT (11 CORE)	
54	9-885-054-48	HOLDER CLAMP					



## SECTION 5 ELECTRICAL PARTS LIST

**DVD**

**PANEL**

**MAIN**

**NOTE:**

- 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.
- CAPACITORS:  
uF: μF

- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH: μH
- SEMICONDUCTORS  
In each case, u: μ, for example:  
uA...: μA..., uPA..., μPA...,  
uPB..., μPB..., uPC..., μPC...,  
uPD..., μPD...

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	9-885-054-49	DVD MOUNT *****			9-885-054-53	MAIN MOUNT *****	
		< IC >				< CAPACITOR >	
IC201	9-885-054-65	IC HDC25D811B		C107	9-885-054-77	ELECT 0.1F	5.5V
IC203	9-885-054-66	IC M12L1616A-7T-L		C715	9-885-054-78	CERAMIC CHIP 1uF	50V
IC301	9-885-054-70	IC HS353106HYNIX		C725	9-885-054-78	CERAMIC CHIP 1uF	50V
IC501	9-885-054-72	IC NDV8602		C735	9-885-054-78	CERAMIC CHIP 1uF	50V
IC502	9-885-054-73	IC CAT93C56S		C745	9-885-054-78	CERAMIC CHIP 1uF	50V
IC2A1	9-885-054-67	IC HD153702TF		C756	9-885-054-78	CERAMIC CHIP 1uF	50V
IC2A4	9-885-054-68	IC KIA393F				< IC >	
IC2M1	9-885-054-69	IC KA3032		IC101	9-885-054-82	IC LC876748C-52F9	
IC3F1	9-885-054-71	IC MBM29LV800BA-90PFTN		IC201	9-885-054-84	IC CS493264-CLR	
		< TRANSISTOR >		IC205	9-885-054-86	IC CS4228A-KSR	
Q2A5	9-885-054-74	TRANSISTOR KTC3882		IC206	9-885-054-85	IC CS8415A-CZR	
Q2A6	9-885-054-74	TRANSISTOR KTC3882		IC301	9-885-054-83	IC PS9702B	
		< VIBRATOR >		IC501	9-885-054-80	IC NJU7312AM	
X201	9-885-054-75	VIBRATOR, CRYSTAL (33.8688MHz)		IC710	9-885-054-79	IC STA505	
X501	9-885-054-76	VIBRATOR, CRYSTAL (27MHz)		IC730	9-885-054-79	IC STA505	
*****				IC750	9-885-054-79	IC STA505	
	9-885-054-52	PANEL MOUNT *****		IC971	9-885-054-81	IC KA7912TSTU	
		< DIODE >				< JACK >	
LD001	9-885-054-99	DIODE LTL-1CHES-112A (STANDBY)		JK201	9-885-054-91	IC PLR131 (OPTICAL IN)	
		< IC >		JK202	9-885-054-92	IC PLT131 (OPTICAL OUT)	
RMC001	9-885-055-00	IC TPOP4840SJ1		JK601	9-885-054-93	PIN JACK 11PIN (ANALOG IN/OUT)	
		< INDICAROE TUBE >		JK602	9-885-054-94	JAC SCART (EURO AV)	
VFD001	9-885-054-98	INDICAROE TUBE, FLUORESCENT		JK700	9-885-054-95	TERMINAL BLOCK (SPEAKER)	
		< JACK >				< COIL >	
JK001	9-885-055-01	JACK, HEADPHONE (PHONES)		L700	9-885-054-88	COIL, CHOKE	
		< ROTARY ENCODER >		L711	9-885-054-87	COIL	
VR001	9-885-055-02	ENCODER, ROTARY (VOLUME)		L712	9-885-054-87	COIL	
*****				L721	9-885-054-87	COIL	
		< CONNECTOR >		L722	9-885-054-87	COIL	
				L731	9-885-054-87	COIL	
				L732	9-885-054-87	COIL	
				L741	9-885-054-87	COIL	
				L742	9-885-054-87	COIL	
				L761	9-885-054-87	COIL	
				L762	9-885-054-87	COIL	
				PN104	9-885-054-96	CONNECTOR FFC 12P	
				PN901	9-885-054-97	CONNECTOR PIN 10P	
				PN902	9-885-054-97	CONNECTOR PIN 10P	

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Ver 1.1

**MAIN POWER**

Ref. No.	Part No.	Description	Remarks
< VIBRATOR >			
X101	9-885-054-89	VIBRATOR, CRYSTAL (9.8304MHZ)	
X201	9-885-054-90	VIBRATOR, CRYSTAL (12.288MHZ)	
*****			
	9-885-054-54	POWER MOUNT *****	
< CAPACITOR >			
△ C901	9-885-055-05	CERAMIC 2200PF	400V
△ C902	9-885-055-05	CERAMIC 2200PF	400V
△ C903	9-885-055-05	CERAMIC 2200PF	400V
△ C904	9-885-055-05	CERAMIC 2200PF	400V
△ C905	9-885-055-05	CERAMIC 2200PF	400V
△ C906	9-885-055-03	ELECT 220MF	450V
△ C910	9-885-055-04	FILM 1.2nF	1kV
△ C911	9-885-055-07	FILM 0.1MF	100V
△ C927	9-885-055-07	FILM 0.1MF	100V
C930	9-885-055-06	CERAMIC 470PF	1KV
< CONNECTOR >			
CN901	9-885-055-31	CONNECTOR, BOARD TO BOARD 10PIN	
CN902	9-885-055-31	CONNECTOR, BOARD TO BOARD 10PIN	
CN903	9-885-055-30	CONNECTOR PIN 12P	
< DIODE >			
△ D920	9-885-055-08	DIODE EG01CW	
D931	9-885-055-12	DIODE FFPF10U20STU	
D933	9-885-055-09	DIPDE RU4YXLF M20	
D934	9-885-055-11	DIODE SR340	
D935	9-885-055-11	DIODE SR340	
D951	9-885-055-10	DIODE SR140	
D952	9-885-055-10	DIODE SR140	
< FUSE >			
△ F901	9-885-055-20	FUSE (5A/250V)	
< FUSE HOLDER >			
FH900A	9-885-055-18	HOLDER, FUSE	
FH900B	9-885-055-18	HOLDER, FUSE	
< IC >			
△ IC901	9-885-055-15	IC KA5Q1265RF-YDTU	
△ IC902	9-885-055-14	IC FSDH0165	
IC963	9-885-055-17	IC KA378R05	
IC964	9-885-055-16	IC FAN1084T-3.3	
< COIL >			
L931	9-885-055-13	COIL, CHOKE	
L932	9-885-055-13	COIL, CHOKE	
L933	9-885-055-13	COIL, CHOKE	
L951	9-885-055-13	COIL, CHOKE	
< LINE FILTER >			
△ LF901	9-885-055-19	FILTER, LINE	
△ LF902	9-885-055-19	FILTER, LINE	
< PIN CONNECTOR >			
PN903	9-885-055-29	CONNECTOR PIN 3P	

Ref. No.	Part No.	Description	Remarks
< TRANSISTOR >			
△ Q920	9-885-055-24	TRANSISTOR KTA1268	
Q950	9-885-055-24	TRANSISTOR KTA1268	
< RESISTOR >			
△ R900	9-885-055-21	CARBON 1.5M	1/2W
△ R921	9-885-055-23	METAL OXIDE 470K	1W
R930	9-885-055-22	CEMENT 470	10W
R931	9-885-055-22	CEMENT 470	10W
< TRANSFORMER >			
△ T901	9-885-055-25	TRANSFORMER, POWER	
△ T902	9-885-055-26	TRANSFORMER, POWER	
< THERMISTOR >			
△ TH901	9-885-055-27	THERMISTOR, NTPDB5R0LD7B0	
< VARIABLE RESISTOR >			
△ VR901	9-885-055-28	VARISTOR, SVR10D-471 SW-D-204B	
*****			
MISCELLANEOUS			
*****			
11	9-885-054-55	TUNER	
△ 13	9-885-054-41	POWER CORD (AEP)	
△ 13	9-885-054-42	POWER CORD (UK)	
15	9-885-054-59	CABLE, FLEXIBLE FLAT (23 CORE) (120mm)	
16	9-885-054-56	CABLE, FLEXIBLE FLAT (12 CORE)	
17	9-885-054-58	CABLE, FLEXIBLE FLAT (24 CORE)	
18	9-885-054-57	CABLE, FLEXIBLE FLAT (23 CORE) (310mm)	
△ 56	9-885-054-44	PU BASE ASSY	
57	9-885-054-60	CABLE, FLEXIBLE FLAT (11 CORE)	
*****			
ACCESSORIES			
9-885-054-61	REMOTE COMMANDER (RM-LS10)		
9-885-054-62	ANTENNA, LOOP (AM)		
9-885-054-63	FM-ANTENNA		
9-885-054-64	CORD, CONNECTION (for TV CONNECTION)		
4-248-217-11	MANUAL, INSTRUCTION (ENGLISH)		
4-248-217-21	MANUAL, INSTRUCTION (FRENCH, SPANISH) (AEP)		
4-248-217-31	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN) (AEP)		
4-248-217-41	MANUAL, INSTRUCTION (SWEDISH, POLISH) (AEP)		

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

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