

SERVICE MANUAL

video 8
 Handycam

B MECHANISM



Photo : CCD-TRV53

US Model
 CCD-TRV32/TRV52/TRV53/
 TRV312/TRV512(NTSC)
Canadian Model
 CCD-TRV53(NTSC)
AEP Model
UK Model
 CCD-TRV14E/TRV24E(PAL)
E Model
 CCD-TRV34/TRV34PK/TRV44(NTSC)
 CCD-TRV14E/TRV24E/TRV44E(PAL)
Australian Model
 CCD-TRV14E/TRV24E/TRV44E(PAL)
Hong Kong Model
 CCD-TRV34/TRV44(NTSC)
 CCD-TRV14E/TRV24E/TRV44E(PAL)
Tourist Model
 CCD-TRV34(NTSC)
 CCD-TRV14E/TRV24E/TRV44E(PAL)

- CCD-TRV34PK is model that carrying bag are added in CCD-TRV34.
- CCD-TRV34PK is different from CCD-TRV34 only in the accessory and packing materials.

For MECHANISM ADJUSTMENT, refer to the "8mm Video MECHANICAL ADJUSTMENT MANUAL VII" (9-973-801-11).

SPECIFICATIONS

Video camera recorder System

Video recording system

Two rotary heads, Helical scanning, FM system

Audio recording system

Rotary heads, FM system

Usable cassette

8 mm video format cassette (standard 8 mm)

Recording/Playback time

SP mode: 1 hour and 30 minutes (P5-90)

LP mode: 3 hours (P5-90)

Fastforward/rewind time

Approx. 5 min. (P5-90)

Image device

CCD (Charge Coupled Device)

Colour temperature

Auto

Recommended illumination

More than 100 lx

LCD screen

On-screen display

TN LCD/TFT active matrix method

Input and Output connectors

Video output

Phono jack, 1 Vp-p, 75 ohm, unbalanced

RFU DC OUT

Special minijack, DC 5 V

LANC control jack

Stereo mini-minijack (ø 2.5 mm)

MIC jack

Minijack, 0.388 mV, low impedance with 2.5 to 3 V DC output, impedance 6.8 kilohm (ø 3.5 mm)

Speaker

Dynamic-speaker

General

Power requirements

7.5 V (AC power adaptor)

Operating temperature

0°C to 40°C (32°F to 104°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Dimensions

Approx. 112 x 102 x 201 mm (4 1/2 x 4 1/8 x 8 inches) (w/h/d)

Microphone

Electret condenser microphone, monaural type

AC power adaptor

Power requirements

110 - 240 V AC, 50/60Hz

Power consumption

AC-V16/V17: 20 W

AC-V16A/V17A: 22 W

Output voltage

DC OUT in operation mode 7.5 V, 1.8 A

Battery charge terminal

10 V, 1.1 A in charge mode

Operating temperature

0°C to 40°C (32°F to 104°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Dimensions (Approx.)

166 x 43 x 75 mm (6 5/8 x 1 11/16 x 3 inches) (w/h/d)

including projecting parts and controls

Mass (Approx.)

AC-V16: 420 g (15 oz)

AC-V16A: 450 g (16 oz)

AC-V17: 440 g (16 oz)

AC-V17A: 460 g (16 oz)

Design and specifications are subject to change without notice.

Continued on next page —

8 VIDEO CAMERA RECORDER

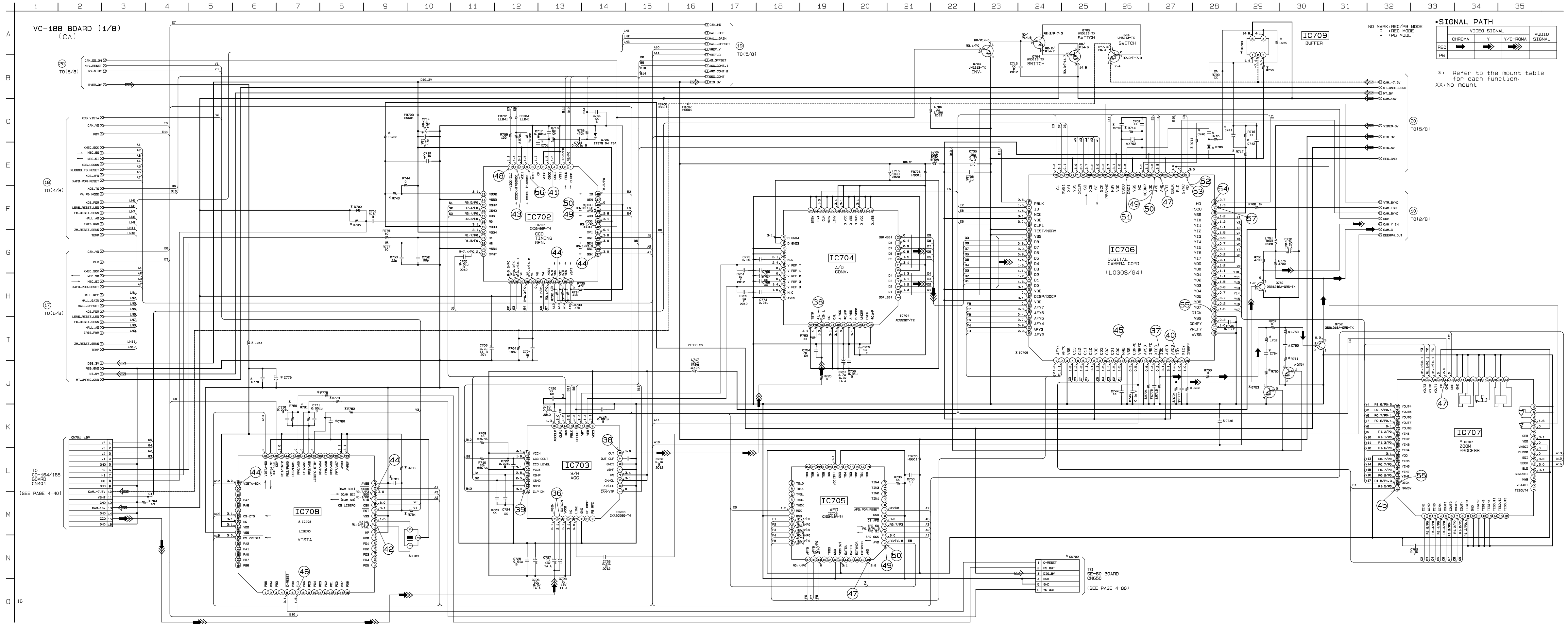


SONY®

VC-188 (CAMERA 1) SCHEMATIC DIAGRAM

- See page 4-5 for VC-188 BOARD printed wiring board.

— Ref. No. VC-188 Board; 1,000 Series —



- SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC	➡	➡➡	➡➡➡	
PB				

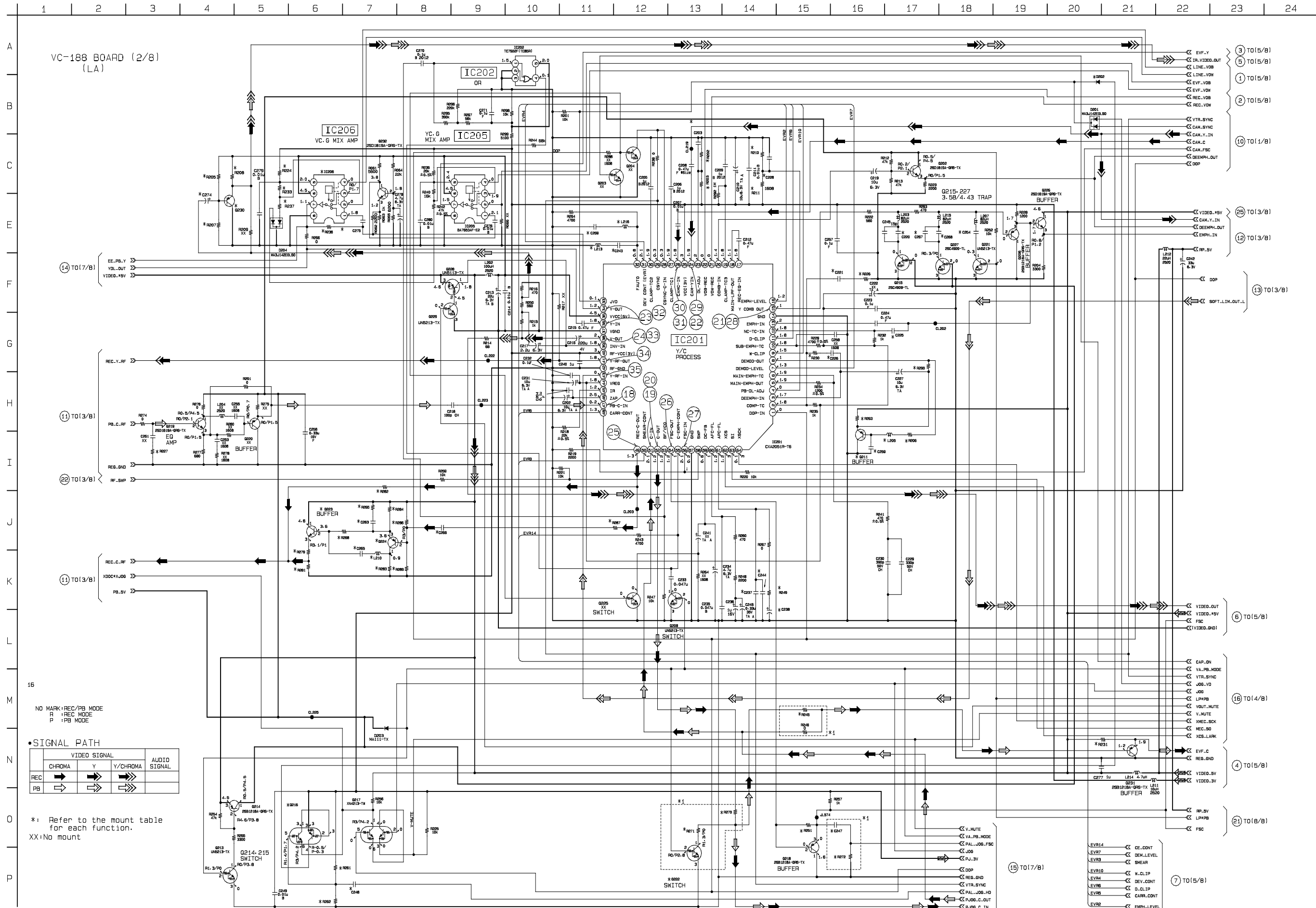
*: Refer to the mount table
for each function.
XX:No mount

CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

VC-188 (CAMERA 2) SCHEMATIC DIAGRAM

— Ref. No. VC-188 Board; 1,000 Series —

- See page 4-5 for VC-188 BOARD printed wiring board.

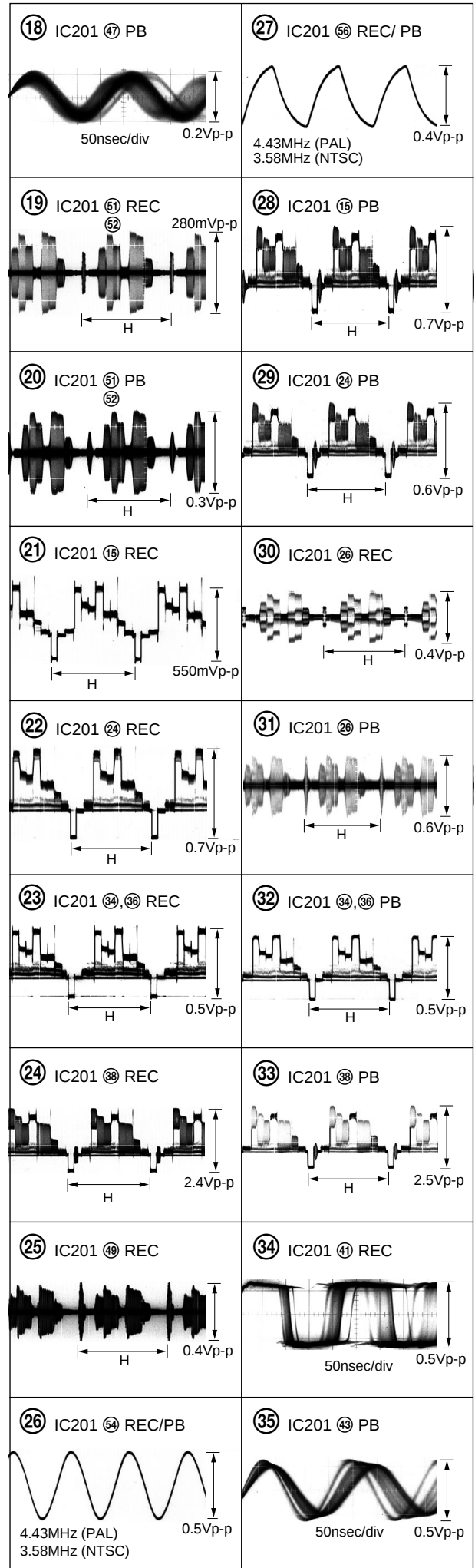
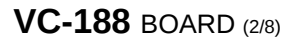
[illegible]

仕向	R245	R246	R272	C247	R270	R271	Q225
NTSC	0	0	XX	XX	XX	XX	XX
PAL	XX	0	1500	100P CH	470	2200	UNDEF -TX
PALM	XX	XX	XX	XX	470	2200	UNDEF -TX
PALM COL.01	0	XX	XX	XX	470	2200	UNDEF -TX

*1

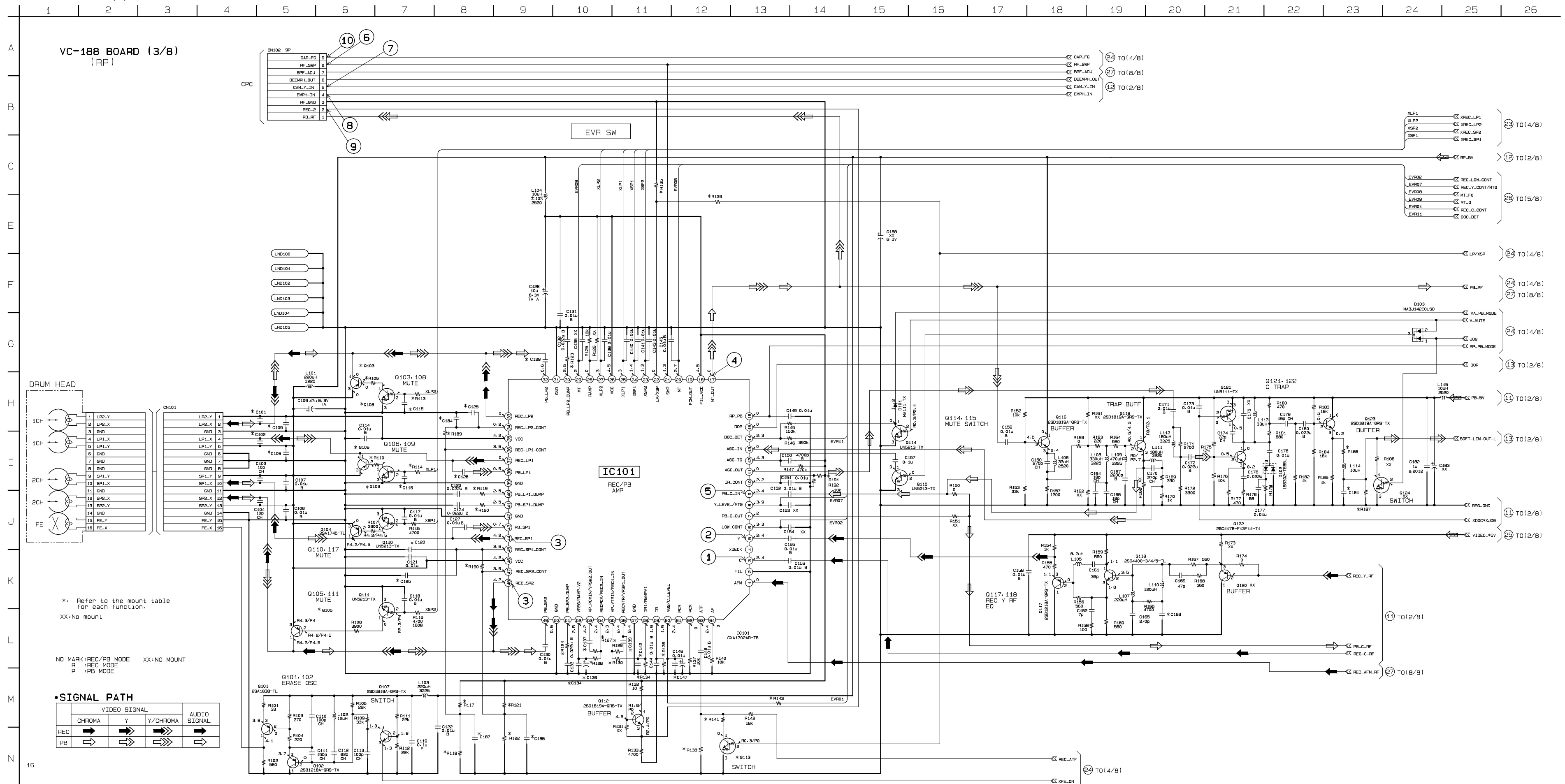
仕向	R245	R246	R272	R247	R270	R271	R225
NTSC	0	0	XX	XX	XX	XX	XX
PAL	XX	0	1500	1000 CH	470	2200	UNDEF -TX
PAL B/N	XX	XX	XX	XX	470	2200	UNDEF -TX
PAL CCLD	0	XX	XX	XX	470	2200	UNDEF -TX

105-011



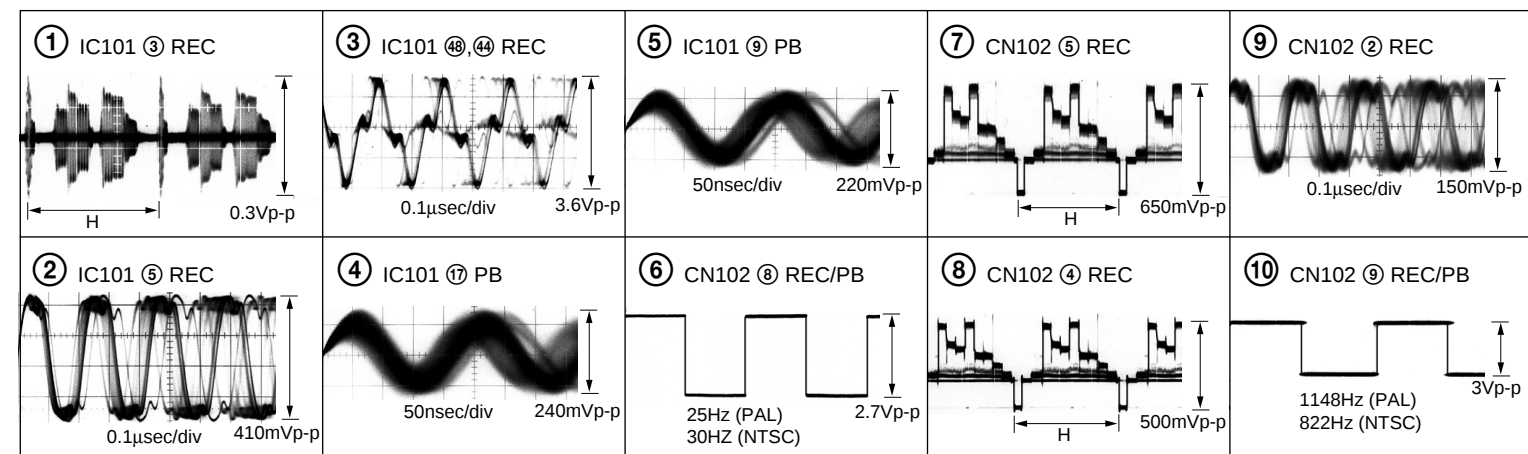
- See page 4-5 for VC-188 BOARD printed wiring board.

- See page 4-5 for VC-188 BOARD printed wiring board.



Date	96.09.17								
Ref_No	CXA1702 NTSC/ST	CXA1702 NTSC/MONO	CXA1702 PAL/ST	CXA1702 PAL/MONO	CXA20B4 NTSC/ST	CXA20B4 NTSC/MONO	CXA20B4 PAL/ST	CXA20B4 PAL/MONO	
C101	10p	10p	XX	XX	10p	10p	XX	XX	
C102	10p	10p	XX	XX	10p	10p	XX	XX	
C105	0.01u	0.01u	XX	XX	0.01u	0.01u	XX	XX	
C106	0.01u	0.01u	XX	XX	0.01u	0.01u	XX	XX	
C115	0.01u	0.01u	XX	XX	0.01u	0.01u	XX	XX	
C116	0.01u	0.01u	XX	XX	0.01u	0.01u	XX	XX	
C120	0.01u	0.01u	0.01u	0.01u	18k	18k	18k	18k	
C125	0.01u	0.01u	XX	XX	18k	18k	XX	XX	
C126	0.01u	0.01u	XX	XX	0.01u	0.01u	XX	XX	
C129	0.01u	0.01u	XX	XX	0.01u	0.01u	XX	XX	
C134	0.01u	0.01u	0.01u	0.01u	0.1u	0.1u	0.1u	0.1u	
C135	10u	10u	XX	XX	10u	10u	XX	XX	
C137	XX	XX	XX	XX	0.01u	0.01u	0.01u	0.01u	
C139	330p	330p	330p	330p	0.01u	0.01u	0.01u	0.01u	
C142	0.01u	0.01u	0.01u	0.01u	0.1u	0.1u	0.1u	0.1u	
C147	10u	10u	10u	10u	XX	XX	XX	XX	
C168	82p	100p	82p	100p	82p	100p	82p	100p	
C181	39p	39p	47p	47p	39p	39p	47p	47p	
C184	XX	XX	XX	XX	0.001u	0.001u	0.001u	0.001u	
C185	XX	XX	XX	XX	0.001u	0.001u	0.001u	0.001u	
C186	XX	XX	XX	XX	0.001u	0.001u	0.001u	0.001u	
C187	XX	XX	XX	XX	0.001u	0.001u	0.001u	0.001u	
Q103	2SA1745-TL	2SA1745-TL	XX	XX	2SA1745-TL	2SA1745-TL	XX	XX	
Q106	2SA1745-TL	2SA1745-TL	XX	XX	2SA1745-TL	2SA1745-TL	XX	XX	
Q108	UN5213-TX	UN5213-TX	XX	XX	UN5213-TX	UN5213-TX	XX	XX	
Q109	UN5213-TX	UN5213-TX	XX	XX	UN5213-TX	UN5213-TX	XX	XX	
Q113	XX	XX	UN5213-TX	UN5213-TX	XX	XX	UN5213-TX	UN5213-TX	
R106	3900	3900	XX	XX	3900	3900	XX	XX	
R110	3900	3900	XX	XX	3900	3900	XX	XX	
R113	4700	4700	XX	XX	4700	4700	XX	XX	
R114	4700	4700	XX	XX	4700	4700	XX	XX	
R117	6800	6800	6800	6800	XX	XX	XX	XX	
R118	27k	27k	27k	27k	18k	18k	18k	18k	
R119	560	560	560	560	820	820	820	820	
R120	860	860	560	560	820	820	820	820	
R121	6800	6800	6800	6800	XX	XX	XX	XX	
R122	27k	27k	27k	27k	18k	18k	18k	18k	
R123	560	560	560	560	820	820	820	820	
R124	560	560	560	560	820	820	820	820	
R127	XX	XX	XX	XX	1500	1500	1500	1500	
R128	XX	XX	XX	XX	47k	47k	47k	47k	
R129	0	0	0	0	1500	1500	1500	1500	
R130	XX	XX	XX	XX	47k	47k	47k	47k	
R134	15k	15k	15k	15k	XX	XX	XX	XX	
R135	XX	XX	1k	1k	XX	XX	1k	1k	
R136	18k	18k	18k	18k	100k	100k	100k	100k	
R139	0	0	XX	XX	0	0	XX	XX	
R141	XX	XX	8200	8200	XX	XX	8200	8200	
R143	XX	XX	XX	XX	0	0	0	0	

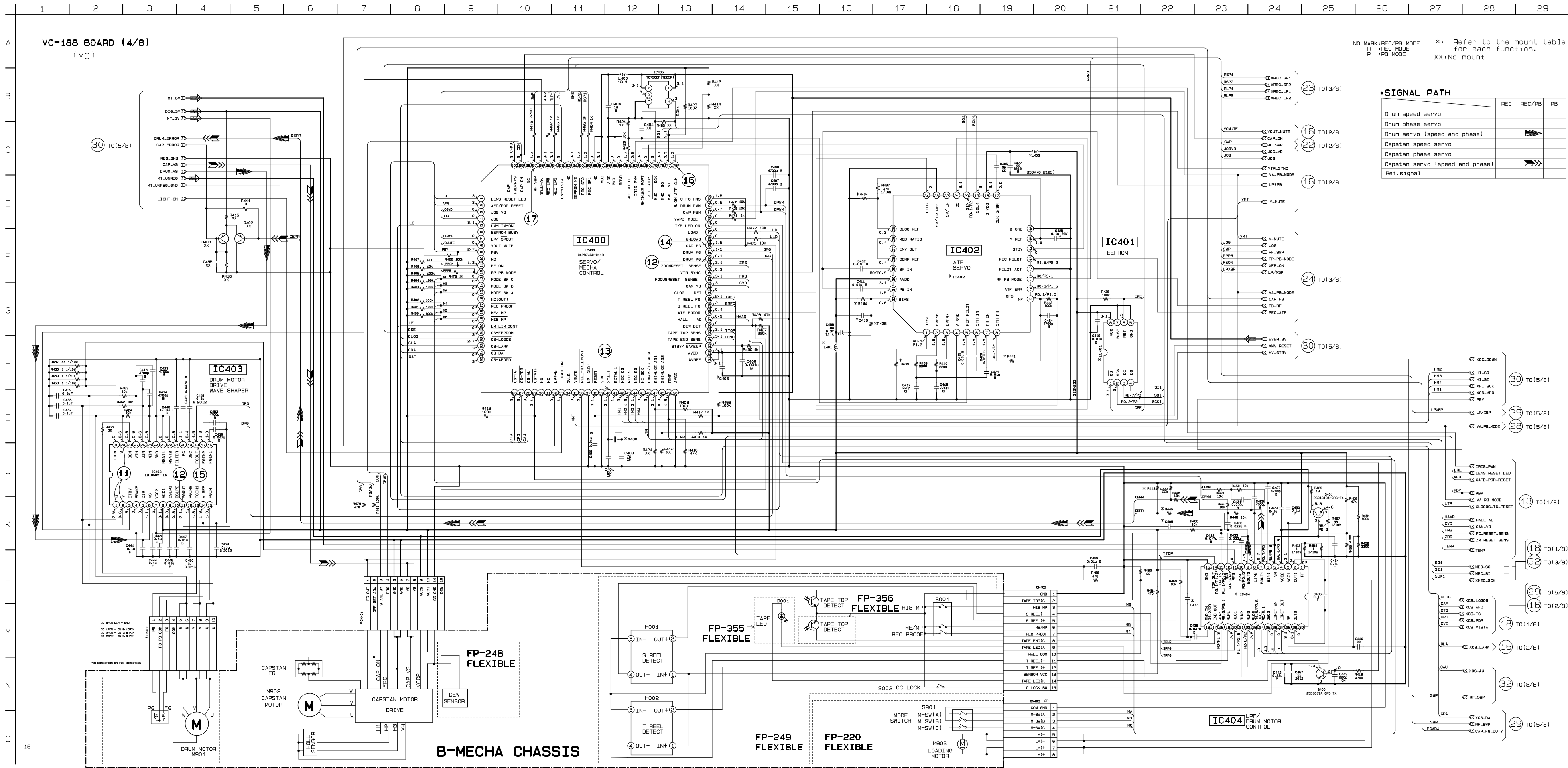
VC-188 BOARD (3/8)



CCD-TRV32/TRV34/PK/TV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

VC-188 (MODE CONTROL), FP-249 (MODE SENSOR) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM
— Ref. No. VC-188 Board; 1,000 Series, FP-249 Board; 5,000 Series —

• See page 4-5 for VC-188 BOARD printed wiring board.

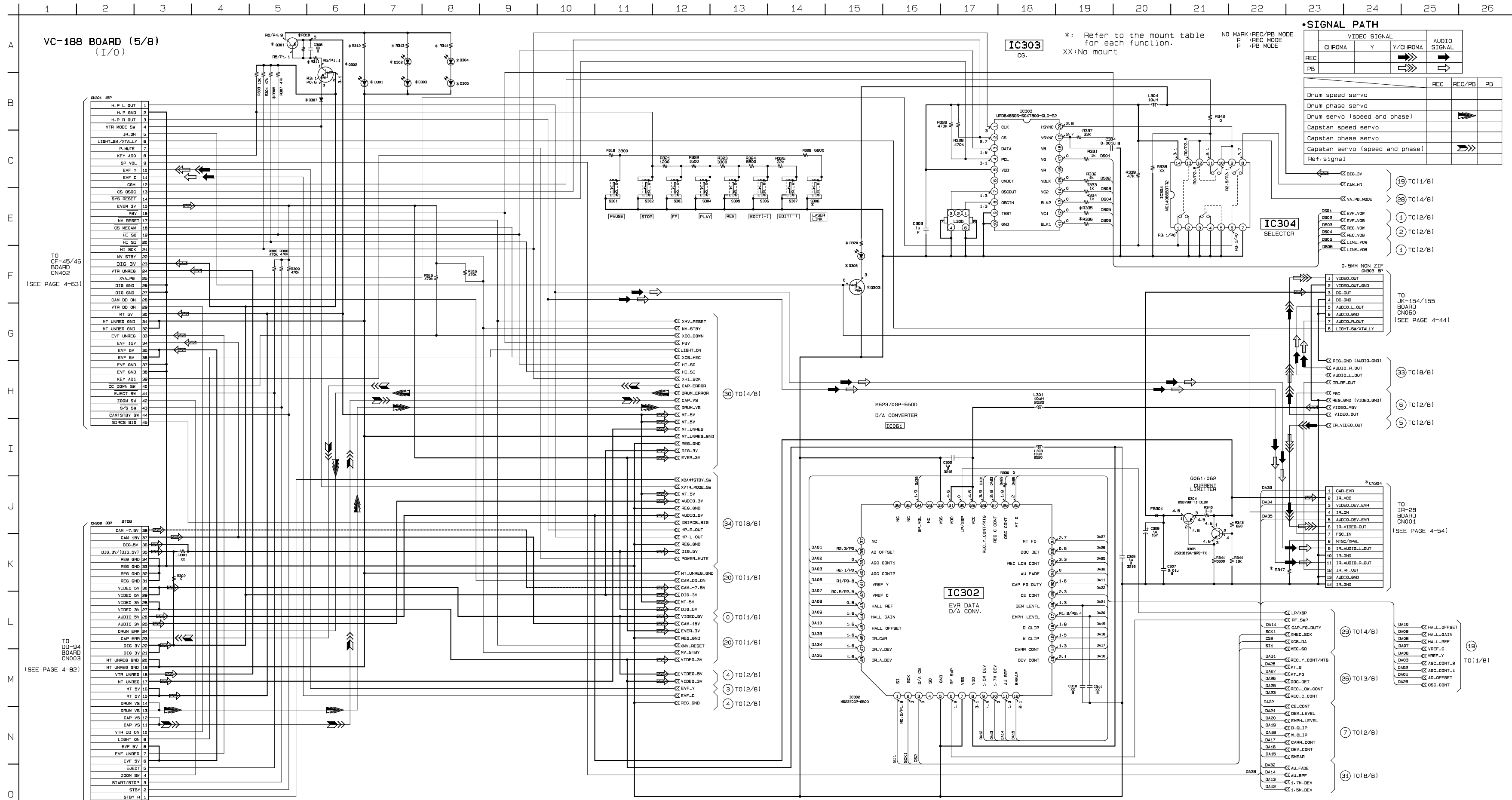
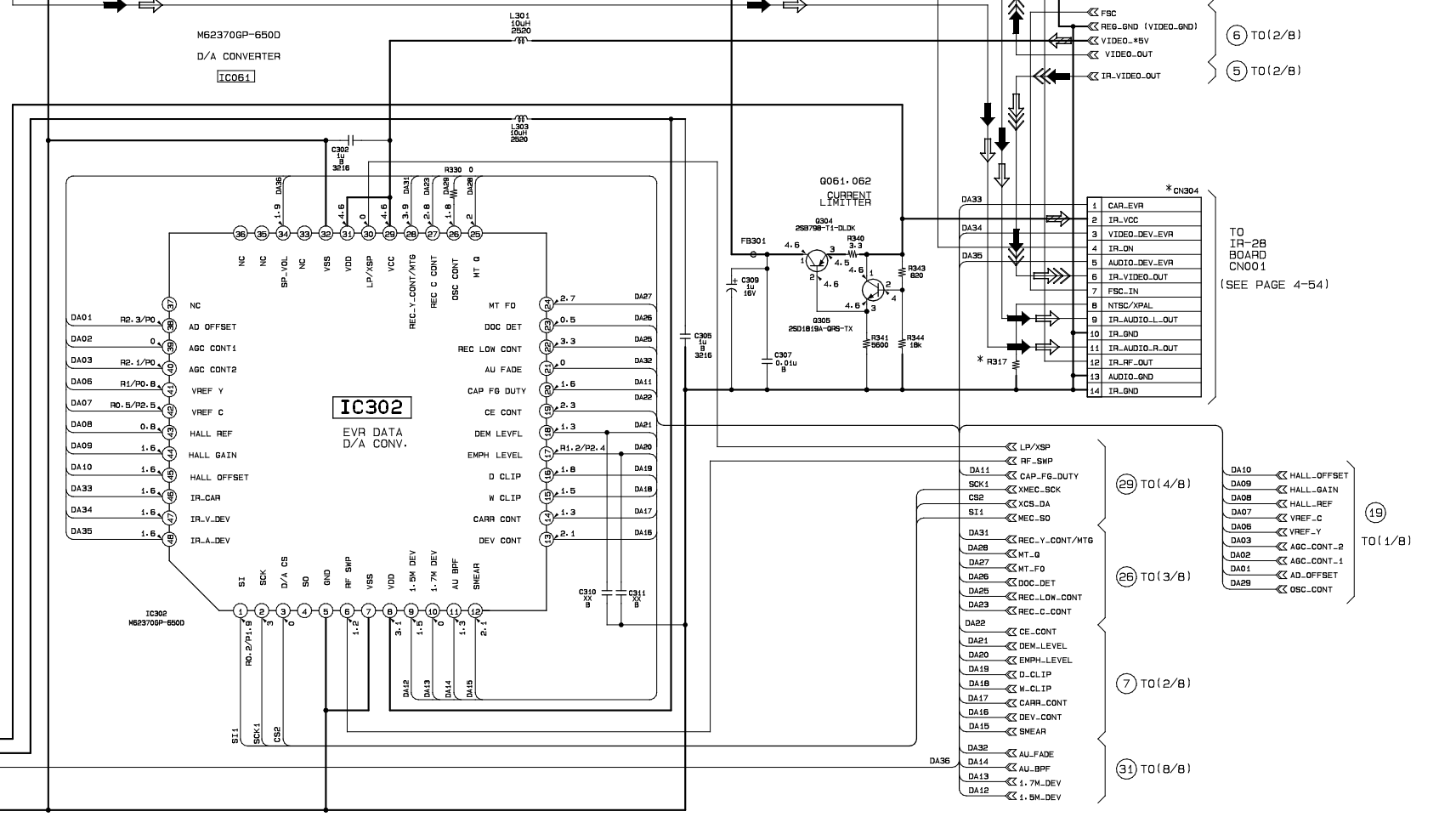


Date	96.11.18					
Ref.No	NT	ATFSONY	ATFFUJI	ATFFUJI	ATFEXAR	ATFEXAR
	NT	PAL	NT	PAL	NT	PAL
=====						
C409	XX	0.001u	XX	0.001u	XX	XX
C410	XX	XX	XX	XX	150p	150p
C413	XX	0.001u	XX	0.001u	XX	XX
IC401	S-29L353AF	S-29L353AF	AK6440AM-E	AK6440AM-E	AK6440AM-E	AK6440AM-E
IC402	CXA1814Q-T	CXA1814Q-T	MB4470APFQ	MB4470APFQ	XR1083ACQ-	XR1083ACQ-
IC404	LB8112V-TL	TAB482FN-E	LB8112V-TL	TAB482FN-E	LB8112V-TL	LB8112V-TL
L401	47uH	47uH	10uH	10uH	10uH	10uH
L402	XX	XX	0	0	0	0
R431	XX	XX	XX	XX	100k	100k
R434	15k	15k	4700	4700	15k	15k
R435	XX	XX	0	0	XX	XX
R438	0	0	XX	XX	100k	100k
R441	22k	22k	22k	22k	33k	33k
R443	22k	XX	22k	XX	22k	22k
R445	10k	0	10k	0	10k	10k
X400	11.895104M	11.71875MH	11.895104M	11.71875MH	11.895104M	11.71875MH

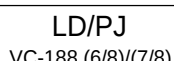
VC-188 (IN/OUT) SCHEMATIC DIAGRAM

— Ref. No. VC-188 Board; 1,000 Series —

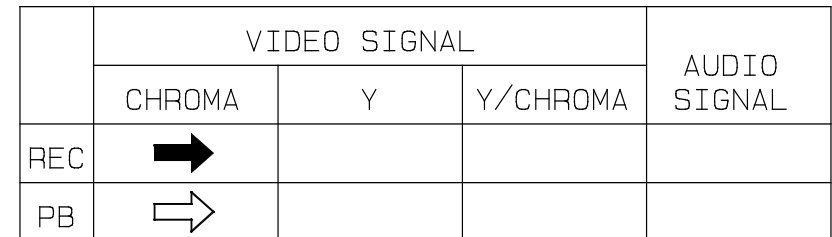
- See page 4-5 for VC-188 BOARD printed wiring board.

[illegible]

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

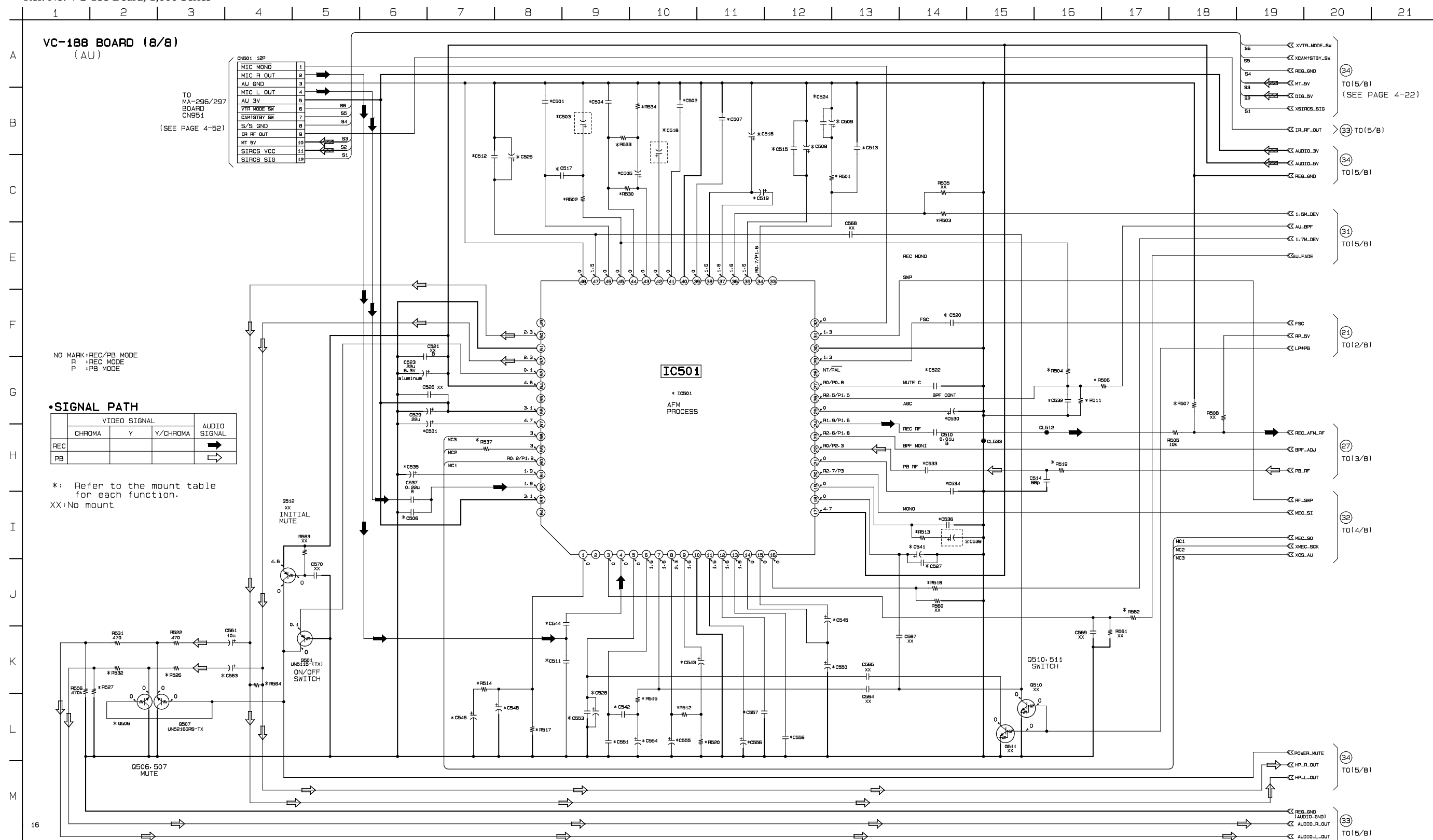


CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

VC-188 (AUDIO) SCHEMATIC DIAGRAM

— Ref. No. VC-188 Board; 1,000 Series —

- See page 4-5 for VC-188 BOARD printed wiring board.



Date	: 96.09.18					
Ref_No	PANA/ST NT	PANA/MO NT	SONY/ST NT	SONY/MO NT	SANYO/ST NT	SANYO/MO NT
C501	XX	XX	0.001u	XX	0.01u	XX
C502	0.01u	0.01u	0.22u	XX	0.01u	XX
C503	XX	XX	XX	XX	4.7u	XX
C504	XX	XX	0.001u	0.001u	0.47u	XX
C505	47u	XX	4.7u	47u	10u	XX
C507	0.47u	XX	1u	XX	6800p	XX
C508	2.2u	3.3u	XX	XX	XX	XX
C509	22u	22u	0.47u	0.47u	XX	XX
C512	4700p	4700p	XX	XX	XX	XX
C513	XX	XX	0.22u	0.22u	0.1u	0.1u
C515	XX	XX	XX	220p	2200p	2200p
C516	2.2u	XX	22u	XX	XX	XX
C517	0.47u	XX	XX	XX	XX	XX
C518	2.2u	0.01u	4.7u	XX	4.7u	XX
C519	XX	XX	XX	XX	4.7u	4.7u
C522	0.01u	0.01u	680p	680p	0.022u	0.022u
C524	XX	XX	XX	XX	0.1u	0.1u
C525	XX	XX	XX	XX	22u	10u
C527	XX	XX	680p	XX	2200p	XX
C528	XX	XX	1u	XX	22u	XX
C530	10u	10u	10u	XX	XX	XX
C531	47u	33u	XX	47u	33u	33u
C533	0.01u	0.01u	0.01u	0.01u	0	0
C534	0.01u	XX	3300p	3300p	0.47u	XX
C535	33u	33u	22u	10u	33u	22u
C536	XX	XX	0.22u	XX	0.1u	XX
C539	22u	XX	0.47u	XX	0.1u	XX
C541	2.2u	XX	XX	10u	XX	XX
C542	0.47u	0.47u	XX	XX	XX	XX
C543	47u	47u	1u	4.7u	10u	10u
C544	0.22u	XX	0.22u	XX	0.22u	XX
C545	XX	XX	XX	XX	4.7u	XX
C546	47u	100u	47u	47u	33u	33u
C548	4.7u	22u	4.7u	15u	10u	10u
C550	2.2u	2.2u	22u	22u	XX	XX
C551	XX	XX	47k	47k	0.01u	0.01u
C553	4700p	XX	XX	XX	XX	XX
C554	XX	XX	10u	4.7u	4.7u	4.7u
C555	XX	XX	10u	10u	0.47u	0.47u
C556	2.2u	2.2u	4.7u	4.7u	4.7u	4.7u
C557	0.01u	0.01u	0.22u	0.22u	0.01u	0.01u
C558	0.47u	0.47u	1u	1u	6800p	6800p
C563	10u	XX	10u	XX	10u	XX
IC501	AN2980FH-E	AN3996FHP-	CXA1737R-	CXA2038R	LA7494W-TB	LA7457W-TB
Q506	UN5216QRS-	XX	UN5216QRS-	XX	UN5216QRS-	XX
R501	4700	5600	470k	470k	3.3M	3.3M
R502	1800	XX	XX	XX	0	XX
R503	120k	100k	82k	0	150k	150k
R504	XX	XX	0	XX	XX	XX
R506	120k	220k	82k	82k	82k	180k
R507	6800	6800	6800	8200	6800	6800
R511	15k	22k	XX	XX	XX	680k
R512	0	0	XX	XX	XX	XX
R513	4700	XX	470k	XX	3.3M	XX
R514	10k	22k	10k	6800	10k	10k
R515	220	4700	0	0	0	0
R516	120k	XX	82k	XX	120k	XX
R517	470k	1M	470k	100k	1M	1M
R520	XX	XX	0	0	0	0
R526	470	XX	470	XX	470	XX
R527	470k	XX	470k	XX	470k	XX
R530	XX	XX	XX	1M	XX	XX
R532	470	XX	470	XX	470	XX
R533	0	XX	XX	XX	XX	XX
R534	XX	XX	0	0	0	XX
R537	4700	0	0	0	0	0
R562	0	0	0	0	0	0
R564	XX	0	XX	0	XX	0

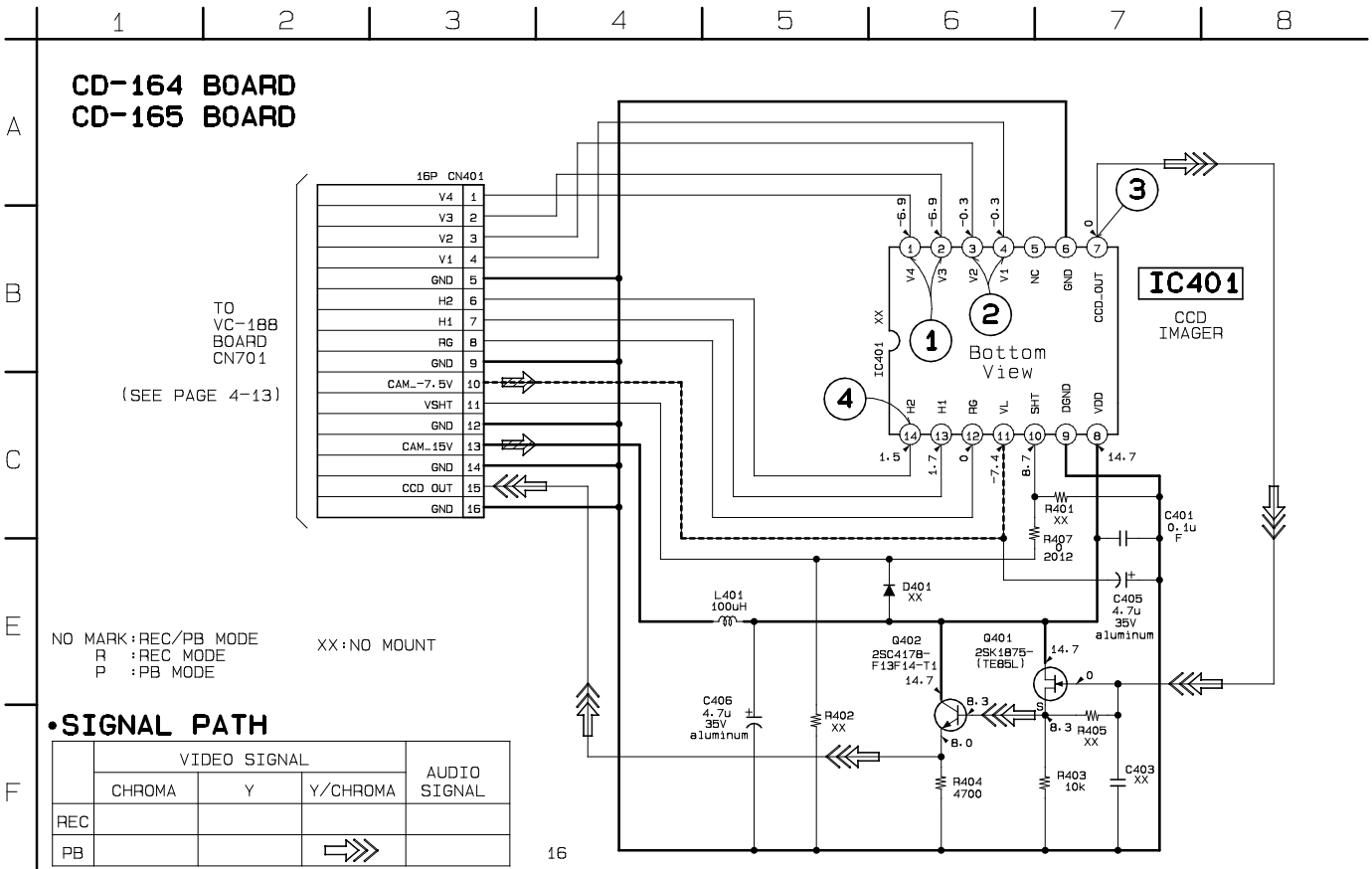
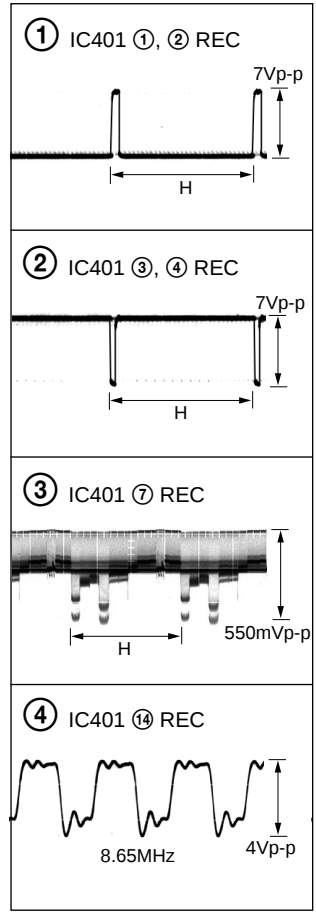
CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

CD-164/165 (CCD IMAGER) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

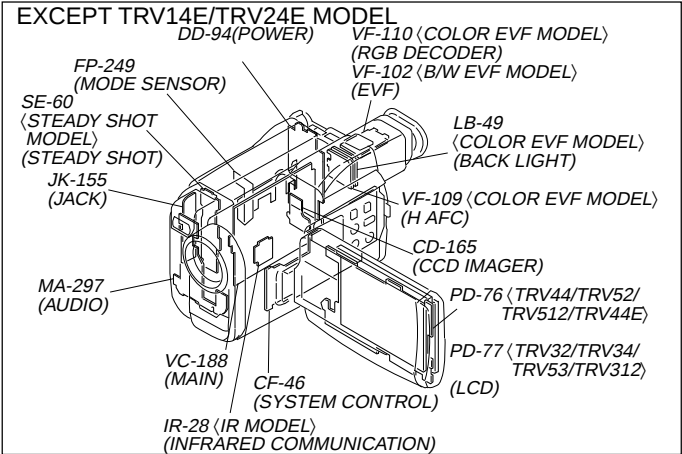
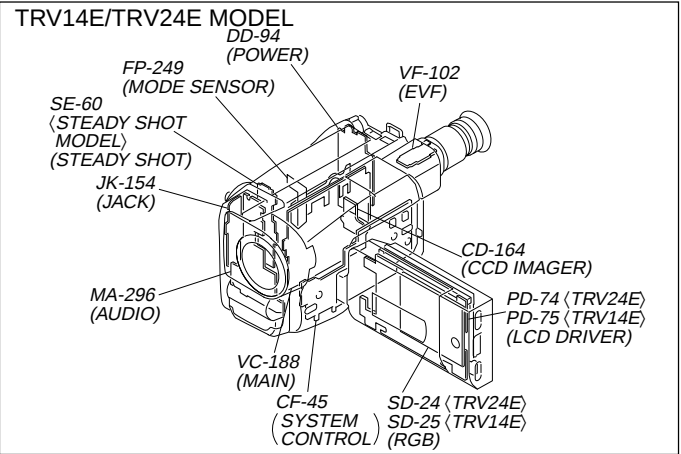
— Ref. No. CD-164/165 Board; 2,000 Series —

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

CD-164/165 BOARD



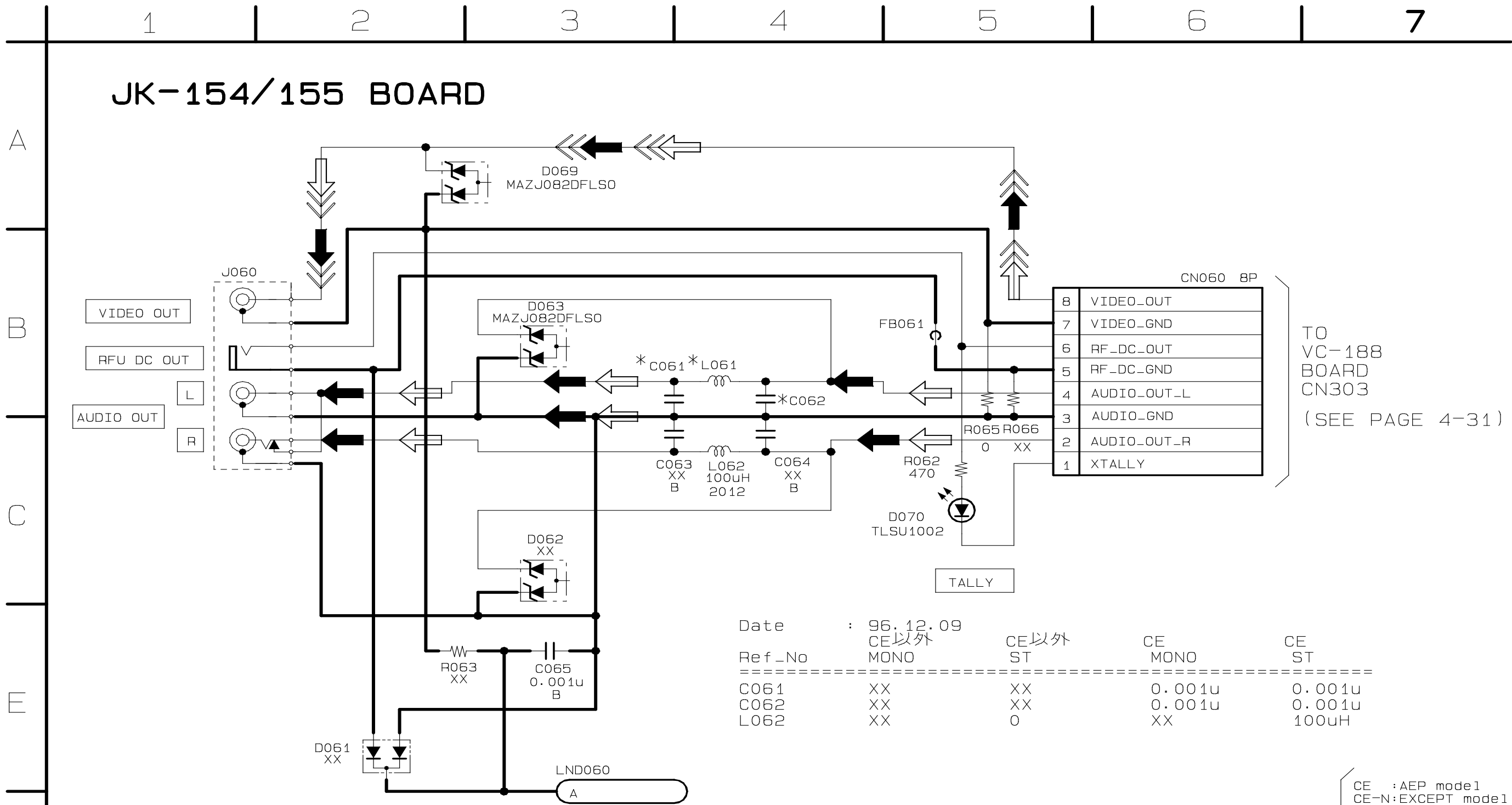
- Precautions Upon Replacing CCD Imager**
- The CD-164/165 board mounted as a repair part is not equipped with a CCD imager. When replacing this board, remove the CCD imager from the old one and mount it onto the new one.
 - If the CCD imager has been replaced, carry out all the adjustments for the camera section.
 - As the CCD imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC. In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.



JK-154/155 (JACK) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

— Ref. No. JK-154/155 Board; 2,000 Series —

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

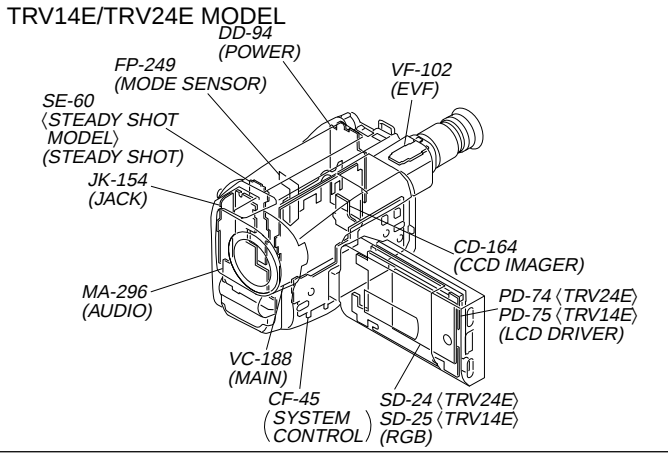
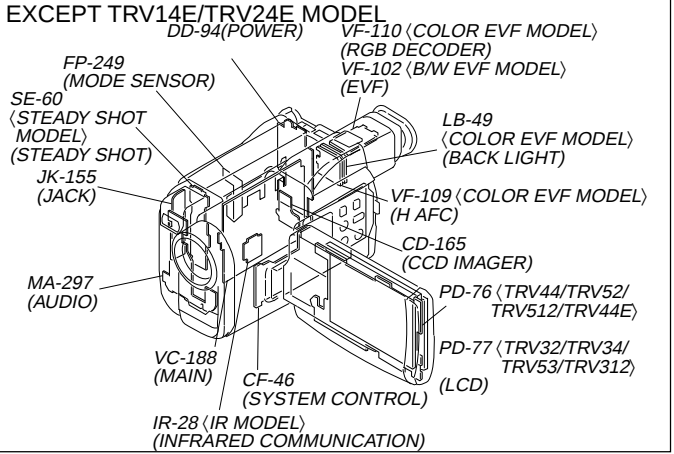


*: Refer to the mount table for each function.
XX: No mount

NO MARK: REC/PB MODE
R : REC MODE
P : PB MODE

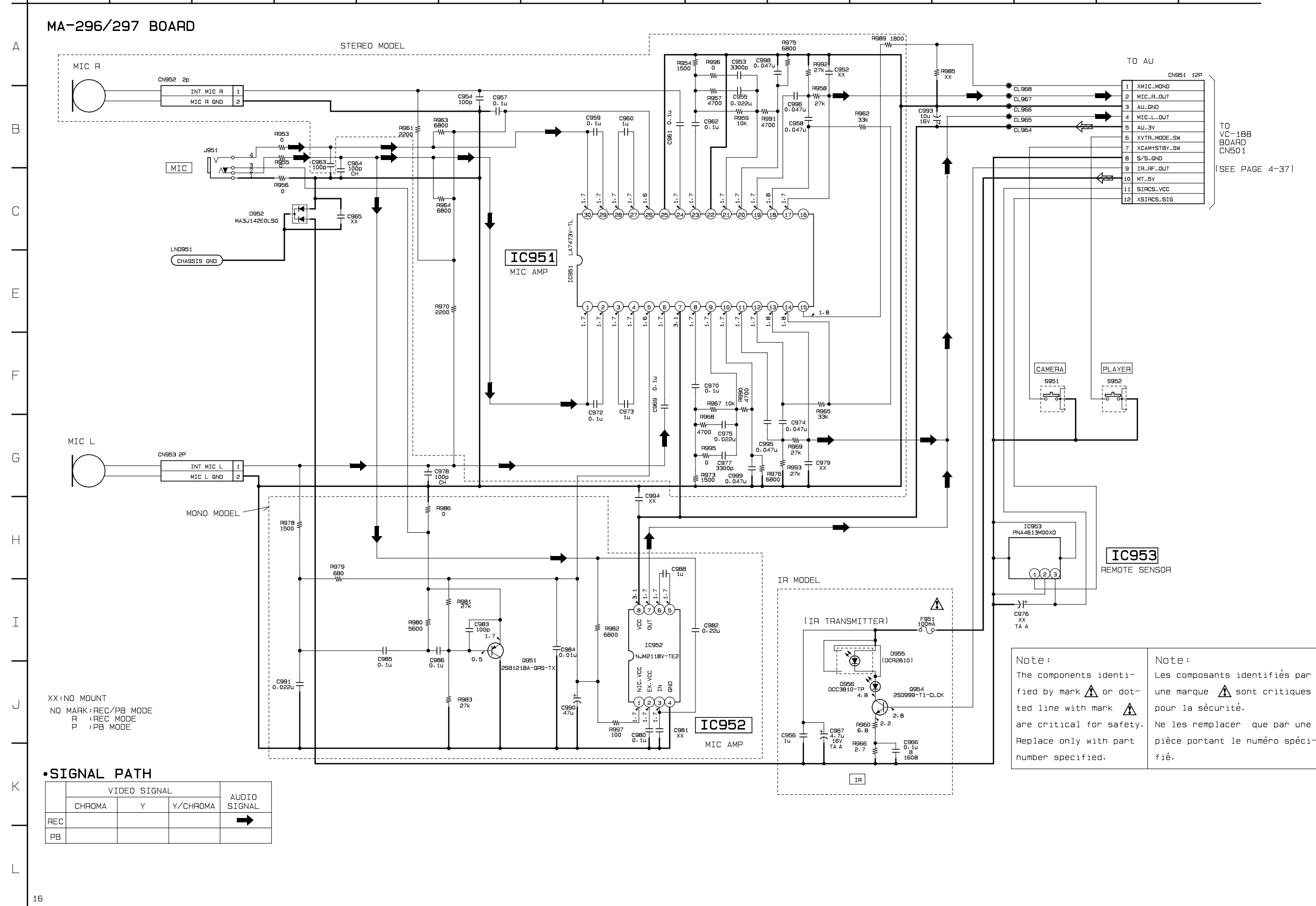
•SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC			➡➡➡	➡
PB			➡➡➡	➡



— Ref. No. MA-296/297 Board; 2,000 Series —

| 1 |
| 2 |
| 3 |



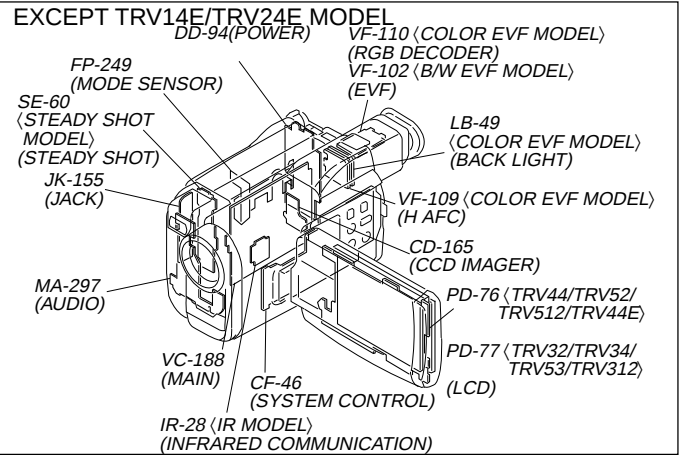
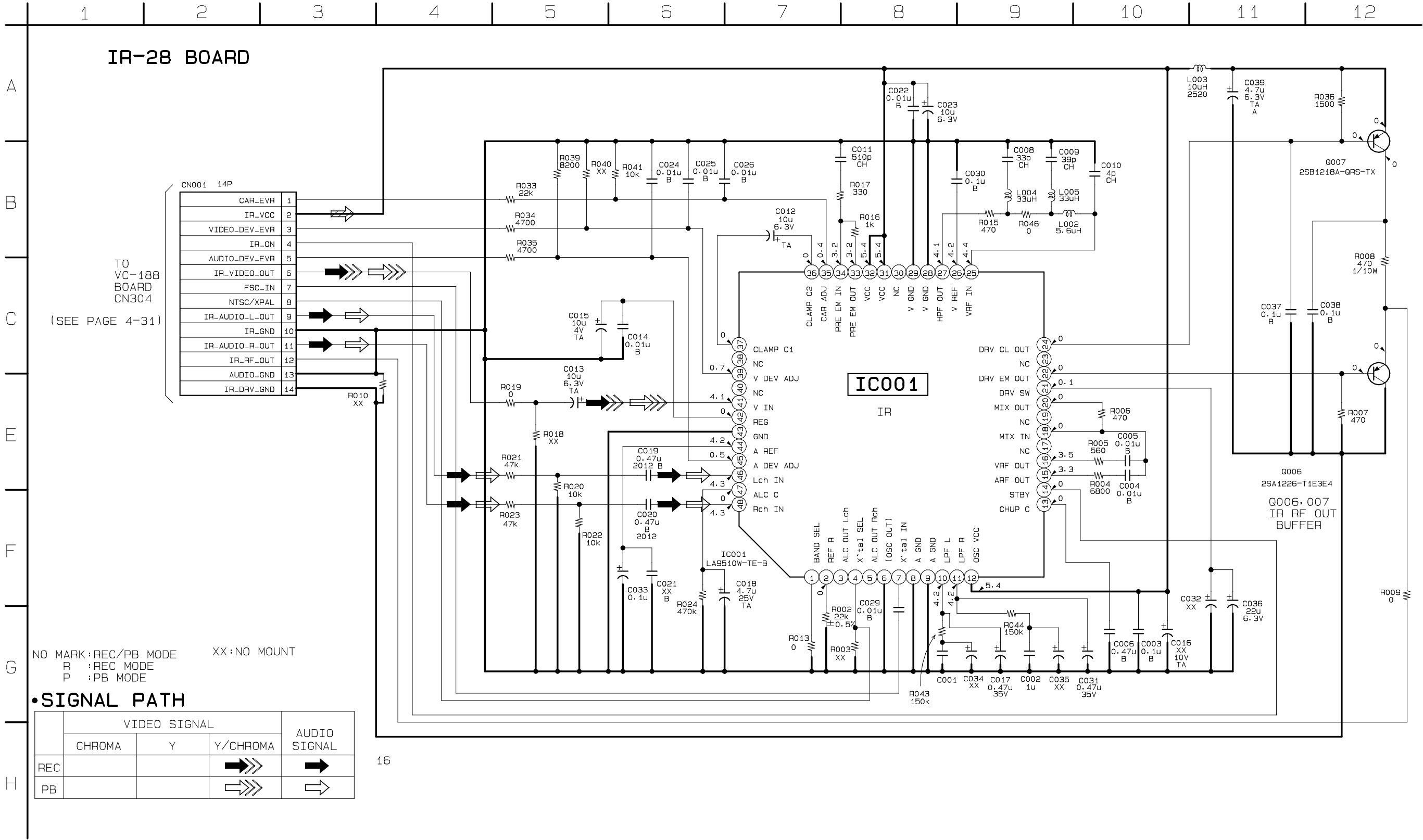
CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

IR MODEL

IR-28 (INFRARED COMMUNICATION) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

— Ref. No. IR-28 Board; 1,000 Series —

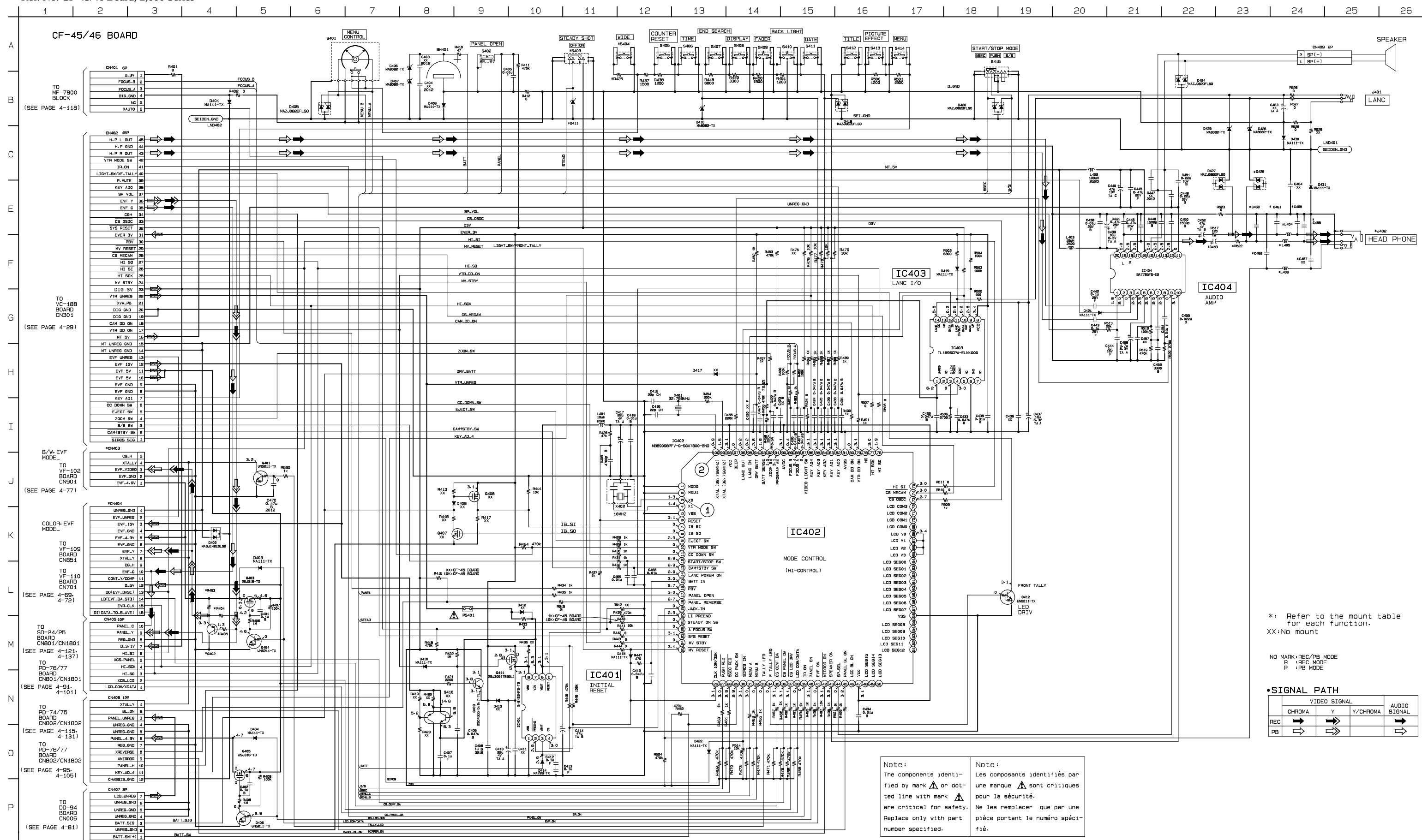
There are few cases that the part printed on this diagram isn't mounted in this model.



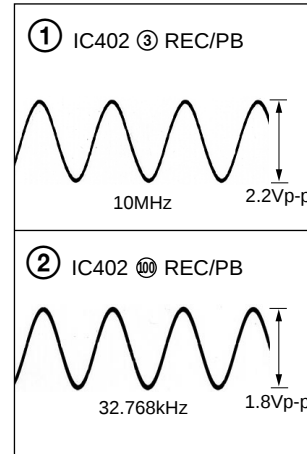
CF-45/46 (SYSTEM CONTROL) SCHEMATIC DIAGRAM

— Ref. No. CF-45/46 Board; 2,000 Series —

- See page 4-57 for CF-45 BOARD printed wiring board.



CF-44/46 BOARD



```

*: Refer to the mount table
   for each function.
XX:No mount

```

NO MARK: REC/PB MODE
R : REC MODE
P : PB MODE

- SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC	➡	➡➡		➡
PB	➡	➡➡		➡

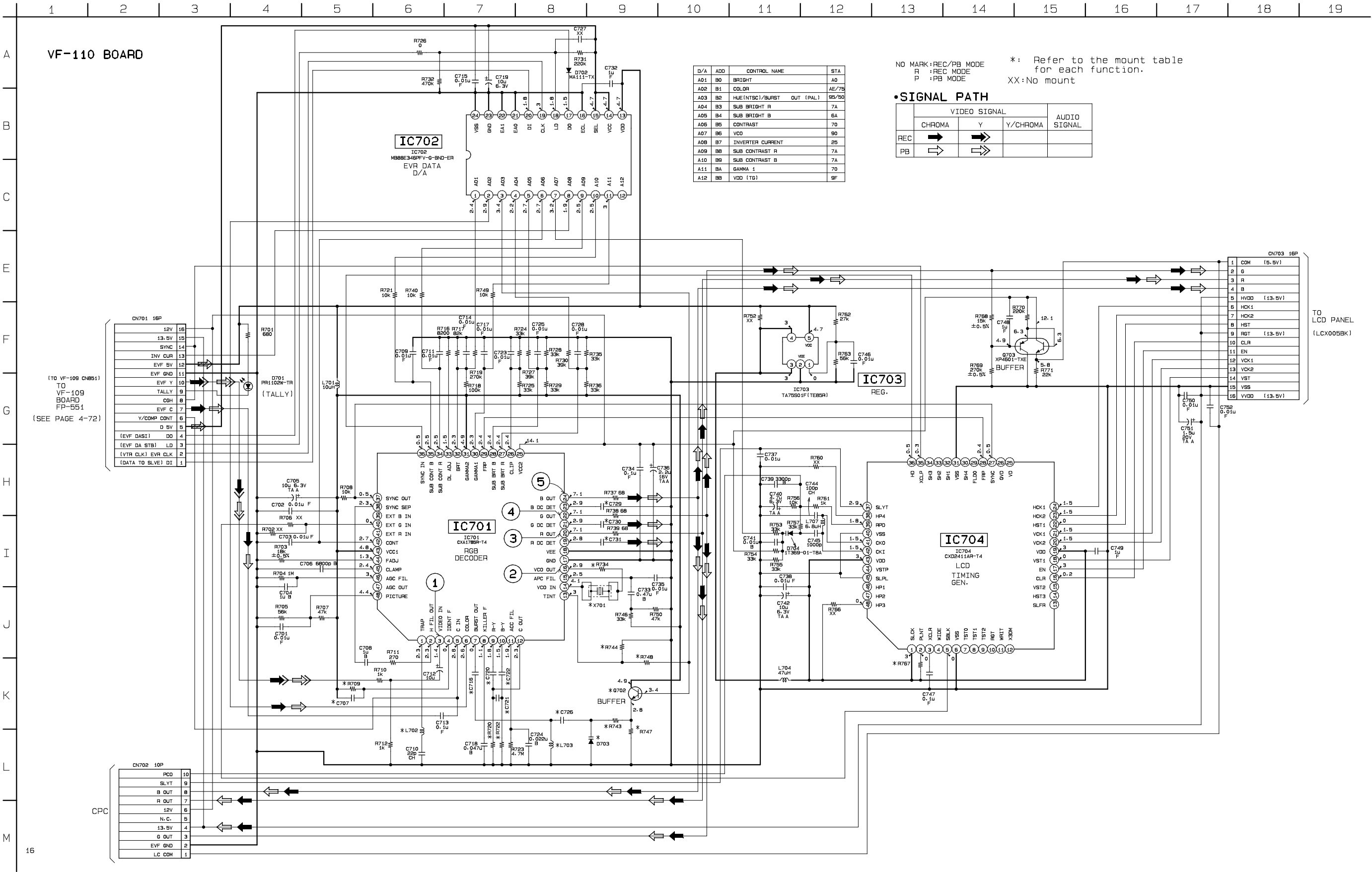
Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---

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

COLOR EVF MODEL

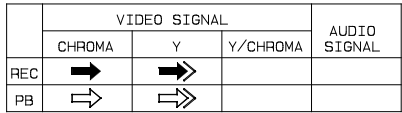
VF-110 (RGB DECODER) SCHEMATIC DIAGRAMS

— Ref. No. VF-110 Board; 4,000 Series —



NO MARK: REC/PB MODE
R : REC MODE
P : PB MODE
*: Refer to the mount table
for each function.
XX: No mount

•SIGNAL PATH



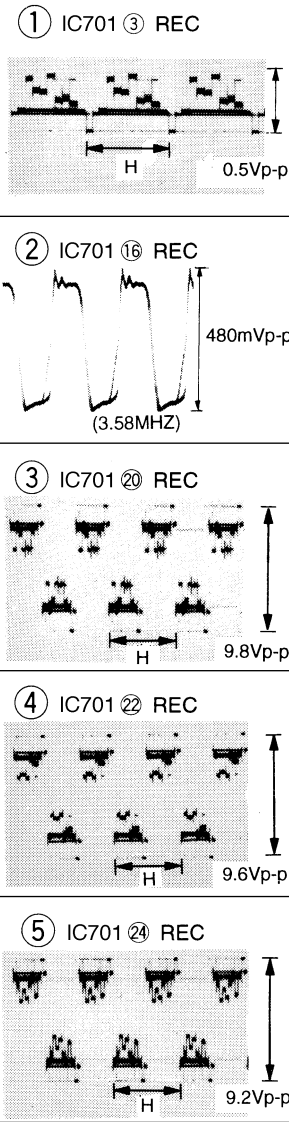
D/A	AD	CONTROL NAME	STA
AD1	B0	BRIGHT	AD
AD2	B1	COLOR	AE/7B
AD3	B2	HUE(NTSC)/BURST OUT (PAL)	95/50
AD4	B3	SUB BRIGHT R	7A
AD5	B4	SUB BRIGHT B	6A
AD6	B5	CONTRAST	7D
AD7	B6	VCO	9D
AD8	B7	INVERTER CURRENT	2B
AD9	B8	SUB CONTRAST R	7A
AD10	B9	SUB CONTRAST B	7A
A11	BA	GAMMA 1	7D
A12	BB	VDD (T0)	9F

Date : 96.06.18

Ref_No STD STD
NT PAL

C707	XX	680p
C716	XX	0.01u
C720	XX	0.01u
C721	XX	82p
C722	XX	0.01u
C726	XX	0.1u
C729	0.1u	3.3u
C730	0.1u	3.3u
C731	0.1u	3.3u
D703	XX	1T369-01-T
L702	82uH	56uH
L703	XX	27uH
Q702	XX	2SD1819A-Q
R709	XX	4.7M
R720	XX	6800
R722	XX	3300
R734	2200	1k
R743	XX	22k
R744	XX	0
R747	XX	4700
R748	0	XX
R767	XX	0
X701	3.579545MH	4.433619MH

VF-110 BOARD

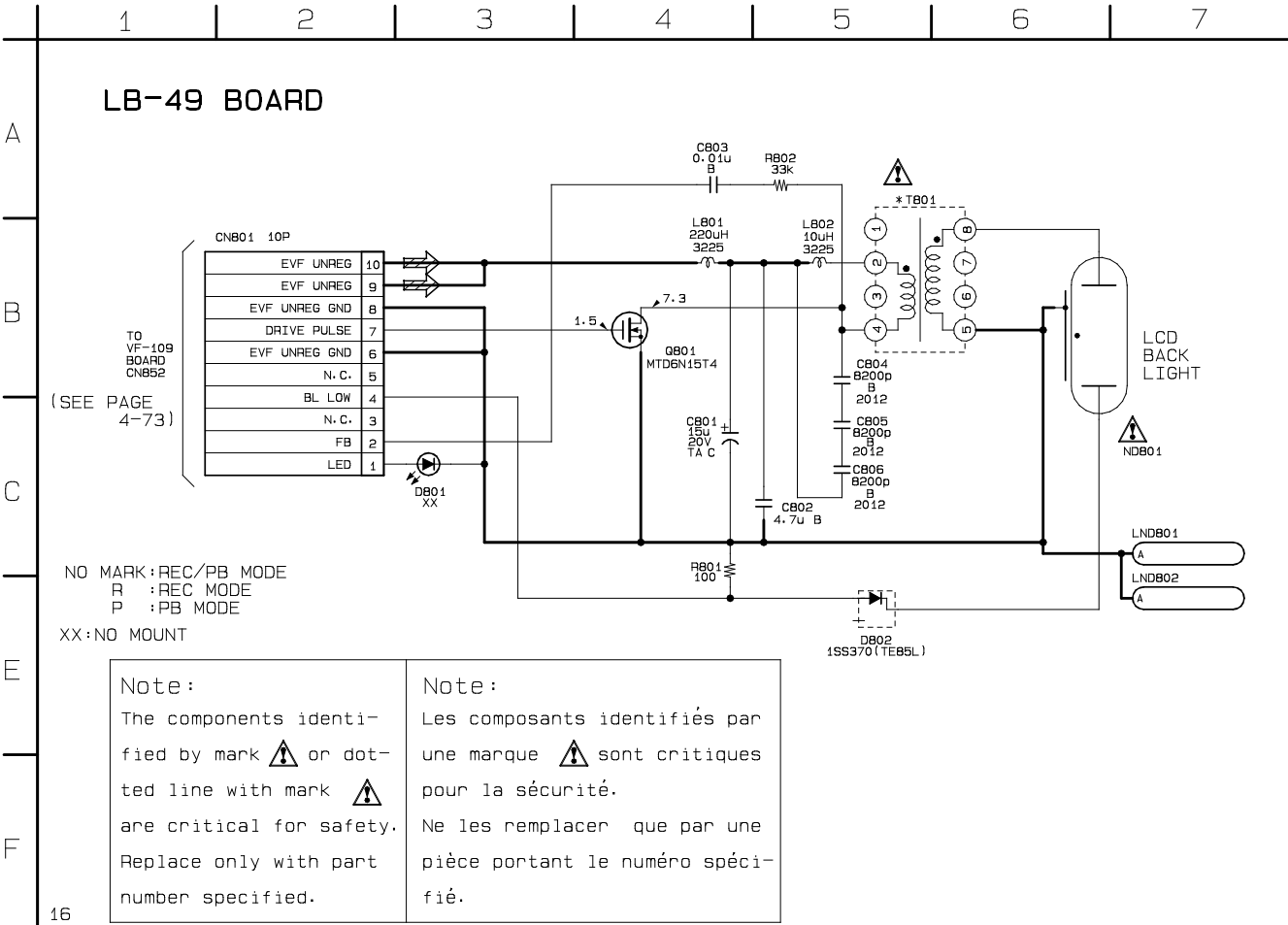
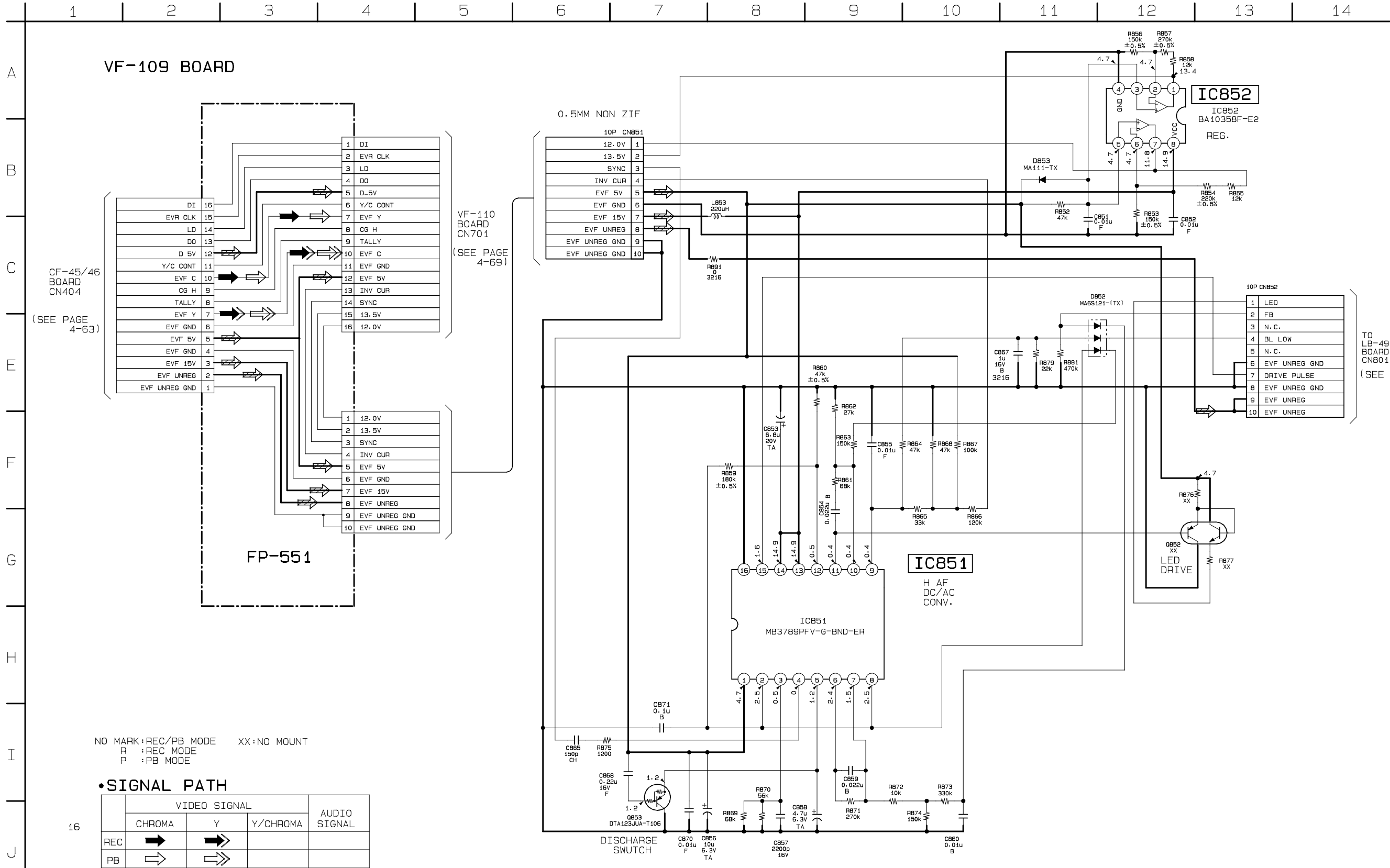


CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

COLOR EVF MODEL

VF-109 (H AFC), LB-49 (BACK LIGHT) SCHEMATIC DIAGRAMS
 — Ref. No. VF-109 Board, LB-49 Board; 4,000 Series —

• See page 4-66 for VF-109 BOARD printed wiring board.

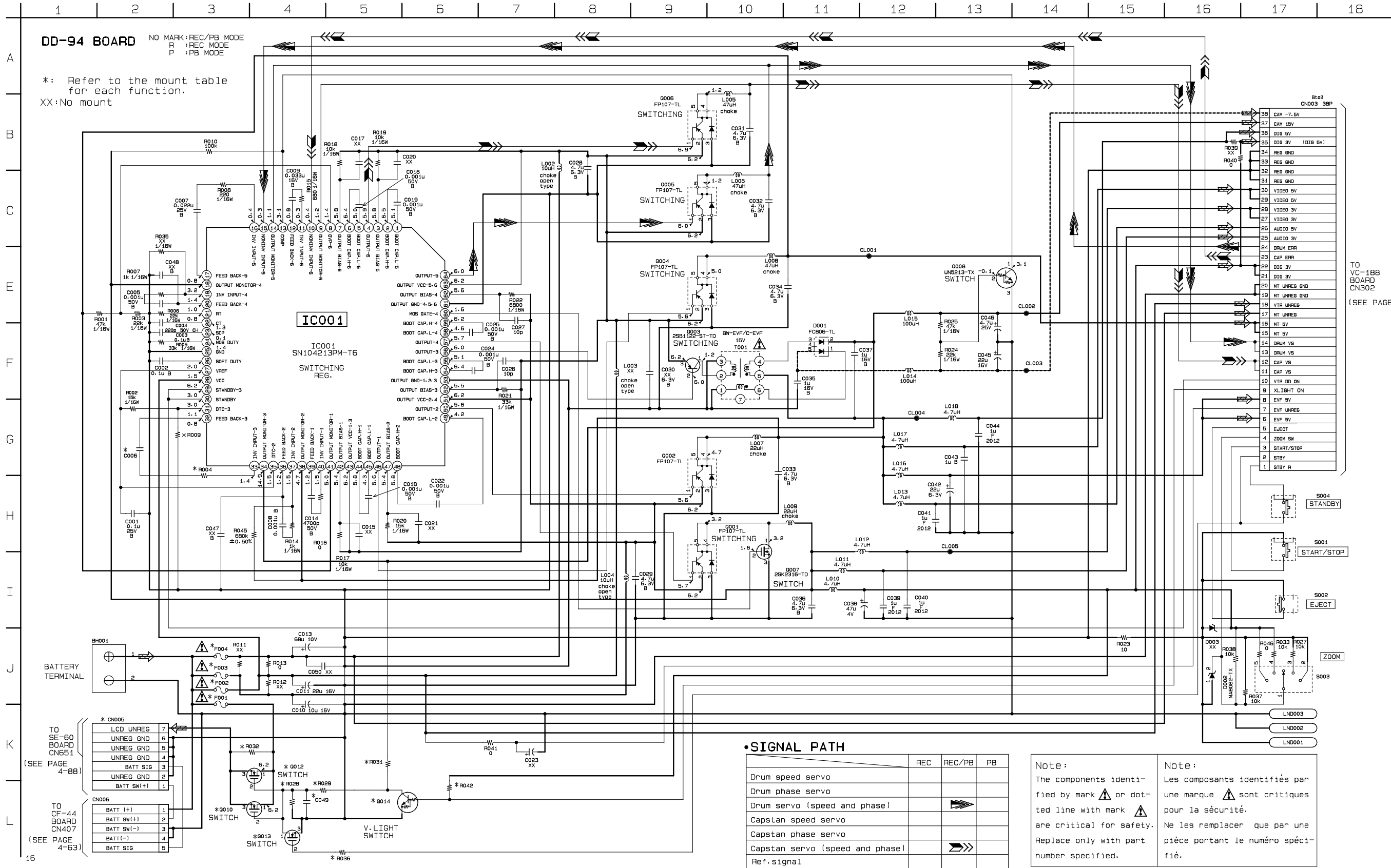


DD-94 (POWER) SCHEMATIC DIAGRAM

— Ref. No. DD-94 Board; 1,000 Series —

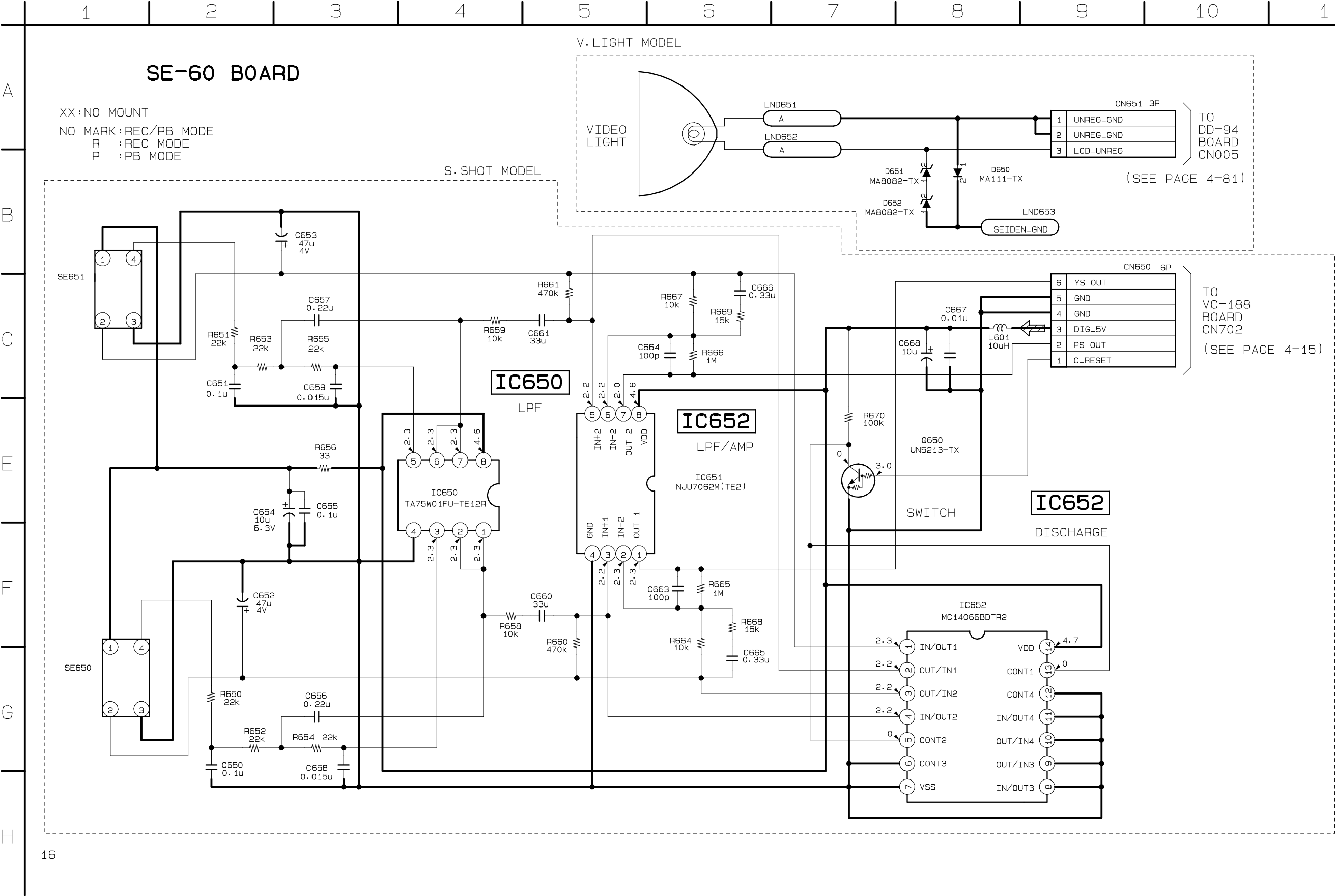
Date : 96.07.17

Ref_No	STD NT/PN/LN	STD PAL/PN/LN	STD NT/PA/LN	STD PAL/PA/LN	STD NT/PN/LA	STD PAL/PN/LA
C049	XX	XX	XX	XX	0.22u	0.22u
CN005	XX	XX	3P	3P	3P	3P
F001	XX	XX	1.6A	XX	1.6A	XX
F002	XX	XX	XX	XX	XX	XX
F003	1.6A	1.6A	1.6A	1.6A	1.6A	1.6A
F004	1.6A	1.6A	1.6A	1.6A	1.6A	1.6A
Q010	XX	XX	XX	XX	2SK2316-TD	2SK2316-TD
Q012	XX	XX	XX	XX	2SK2316-TD	2SK2316-TD
Q013	XX	XX	XX	XX	2SK1829(TF)	2SK1829(TF)
Q014	XX	XX	XX	XX	UN5213-TX	UN5213-TX
R028	XX	XX	XX	XX	1M	1M
R029	XX	XX	XX	XX	820K	820K
R031	XX	XX	XX	XX	180K	180K
R032	XX	XX	0	0	XX	XX
R036	XX	XX	XX	XX	10K	10K
R042	XX	XX	XX	XX	33K	33K



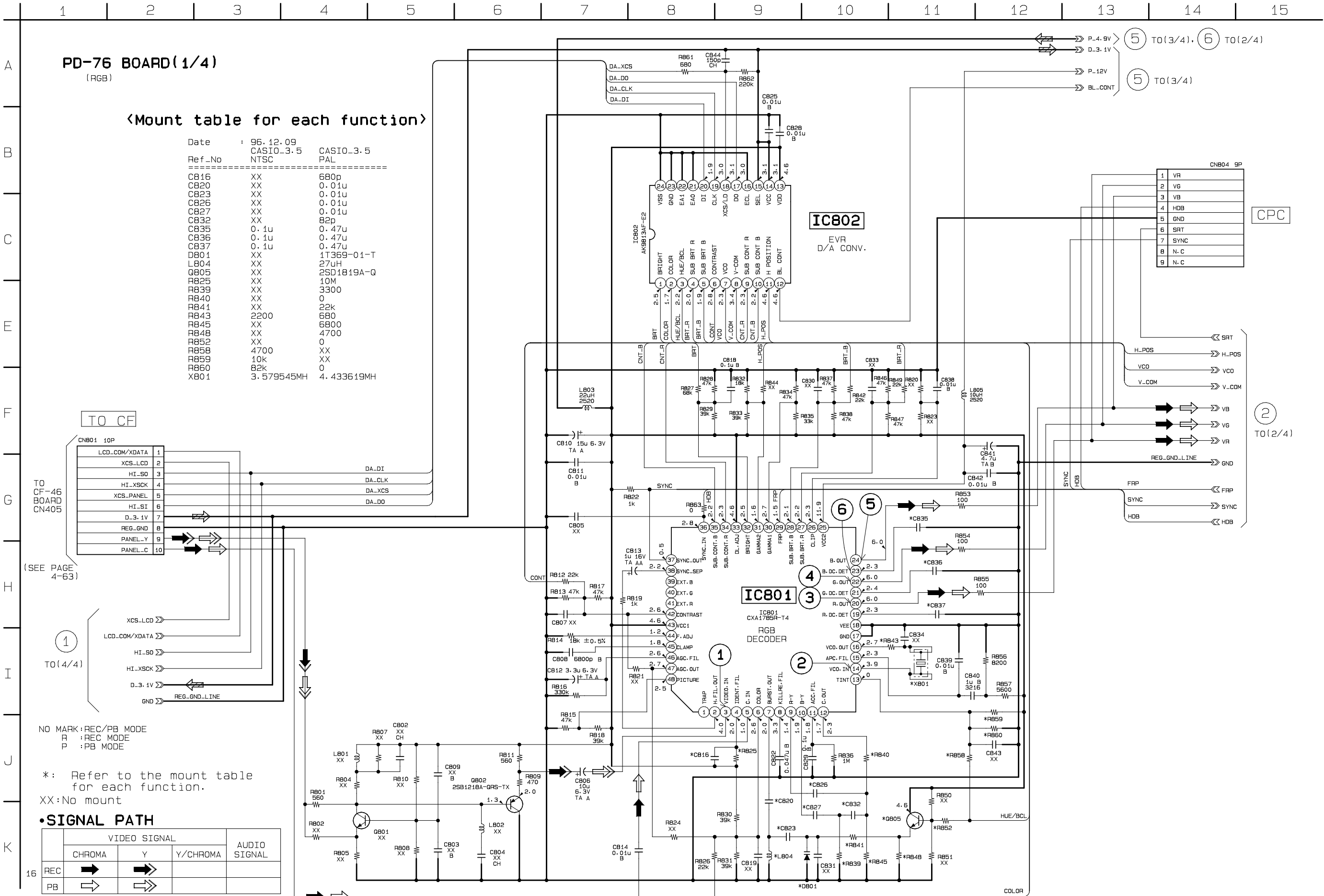
STEADY SHOT MODEL

SE-60 (STEADY SHOT) SCHEMATIC DIAGRAM
— Ref. No. SE-60 Board; 5,000 Series —

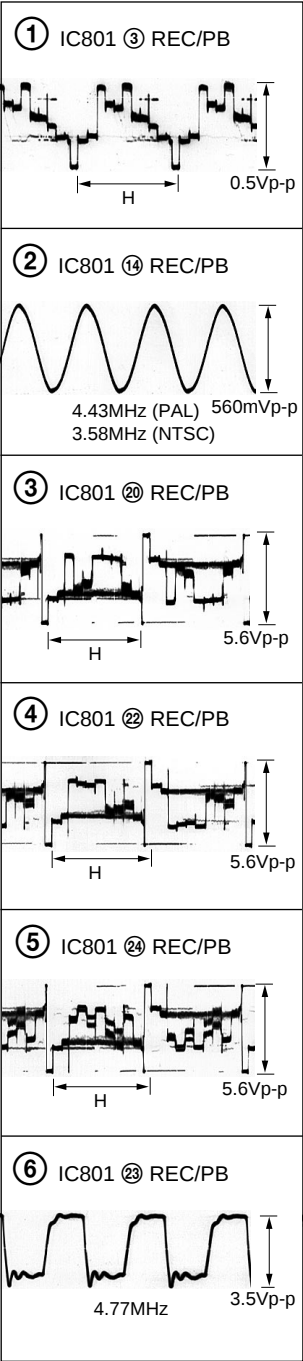


PD-76 (LCD) SCHEMATIC DIAGRAM

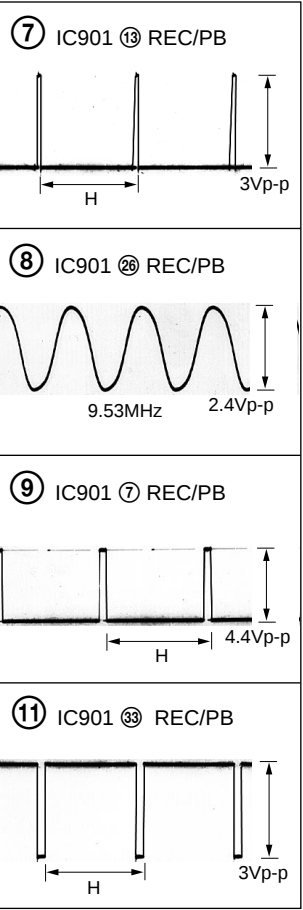
— Ref. No. PD-76 Board; 8,000 Series —



PD-76 BOARD (1/4)

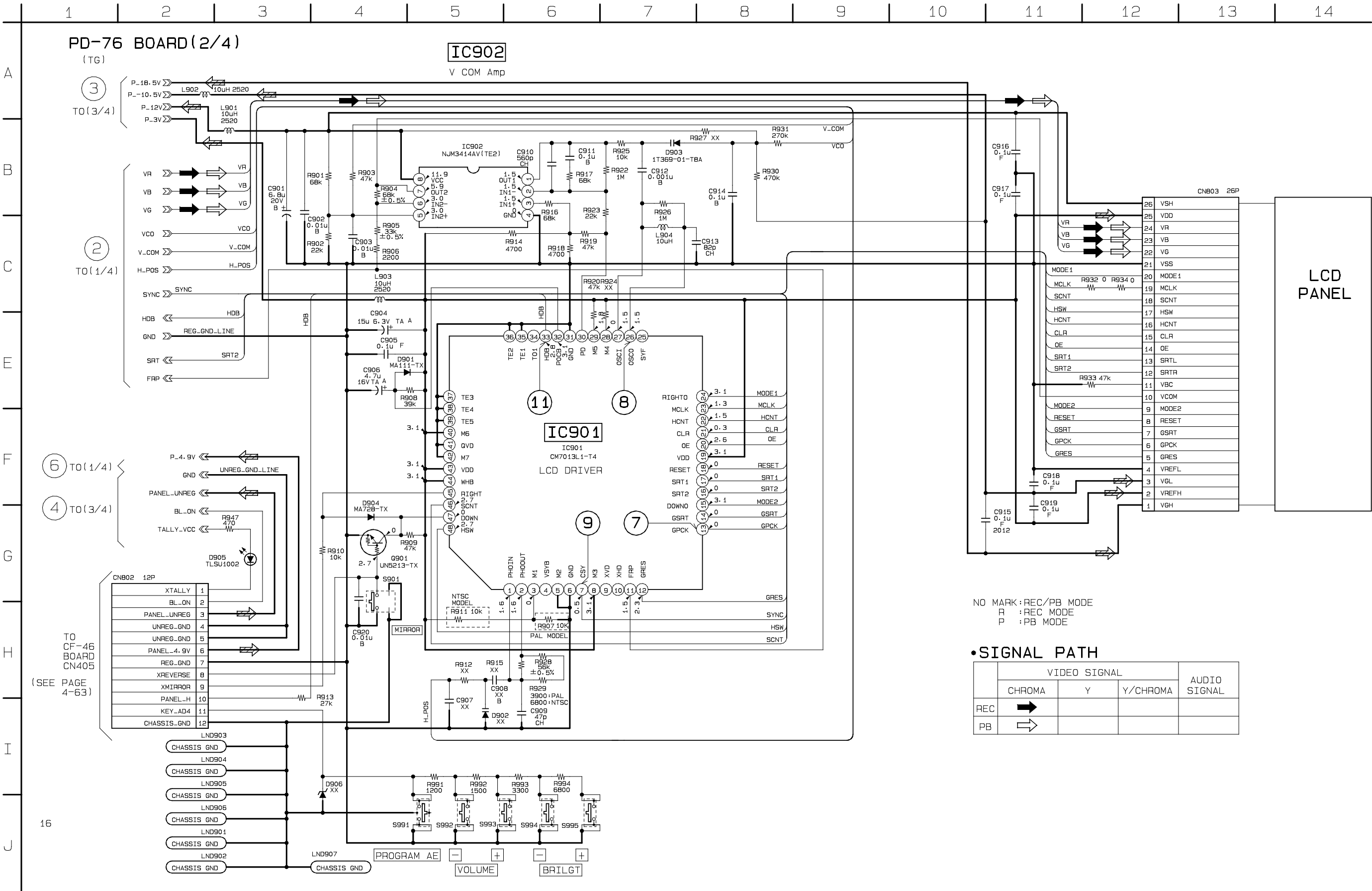


PD-76 BOARD (2/4)



PD-76 (LCD) SCHEMATIC DIAGRAM
— Ref. No. PD-76 Board; 8,000 Series —

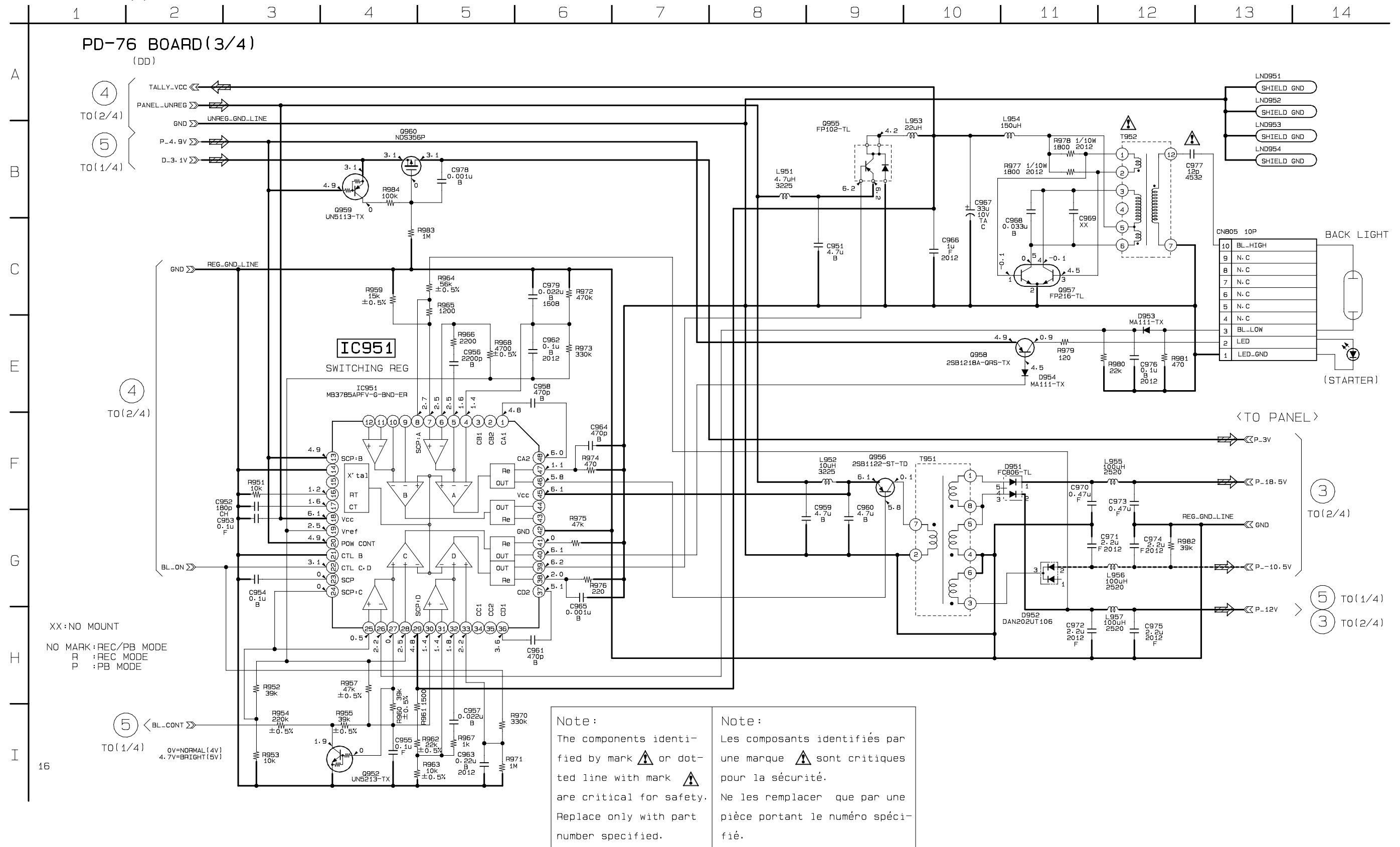
• See page 4-89 for PD-76 BOARD printed wiring board.



PD-76 (LCD) SCHEMATIC DIAGRAM

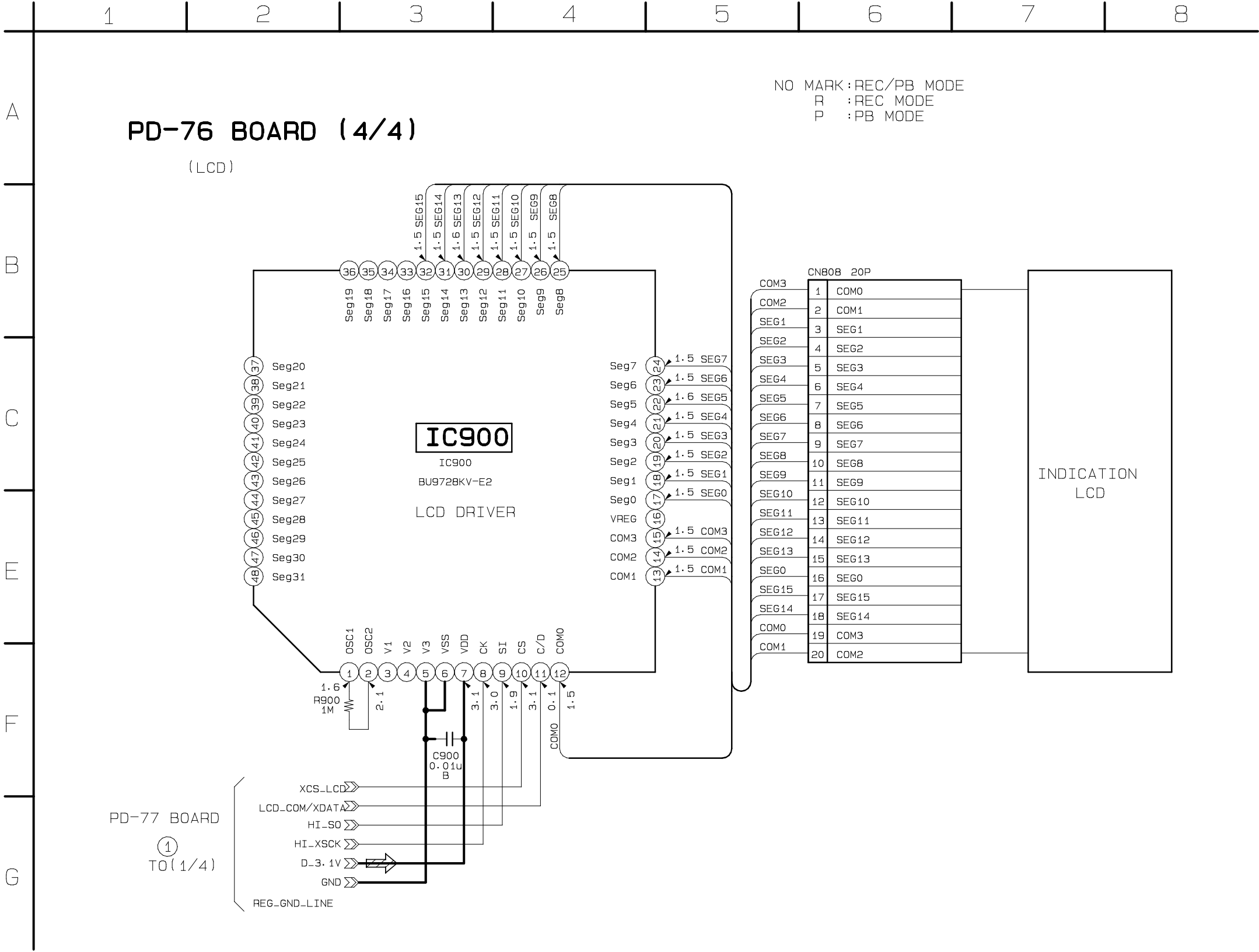
— Ref. No. PD-76 Board; 8,000 Series —

- See page 4-89 for PD-76 BOARD printed wiring board.



PD-76 (LCD) SCHEMATIC DIAGRAM
— Ref. No. PD-76 Board; 8,000 Series —

• See page 4-89 for PD-76 BOARD printed wiring board.



— Ref. No. PD-77 Board; 8,000 Series —

PD-77 BOARD(1/4)
(RGB)

Date : 96.12.09
Ref_No : SHARP_3.0 NTSC
SHARP_3.0 PAL

Component List:

Ref_No	Value	Value
C1818	XX	680p
C1821	XX	0.01u
C1825	XX	0.01u
C1828	XX	0.01u
C1829	XX	0.01u
C1830	XX	39p
D1801	XX	1T369-01-T
L1804	XX	27uH
Q1805	XX	2SD1819A-Q
R1831	XX	10M
R1832	27K	39K
R1833	12K	22K
R1835	XX	39K
R1841	XX	22K
R1845	XX	47K
R1848	2200	680
R1849	XX	5600
R1850	XX	4700
R1854	27K	XX
R1856	22K	XX
R1857	68K	0
X1801	3.579545MH	4.433619MH

IC1802 AK9813AF-E2
EVR
D/A CONV.

IC1801 TR93V28B4
RGB
DECODER

IC1803 2SD1819A-QRS-TX

IC1804 1550
CH

IC1805 5600

IC1806 5600

IC1807 5600

IC1808 5600

IC1809 5600

IC1810 5600

IC1811 5600

IC1812 5600

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IC1814 5600

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IC2012 5600

IC2013 5600

IC2014 5600

IC2015 5600

IC2016 5600

IC2017 5600

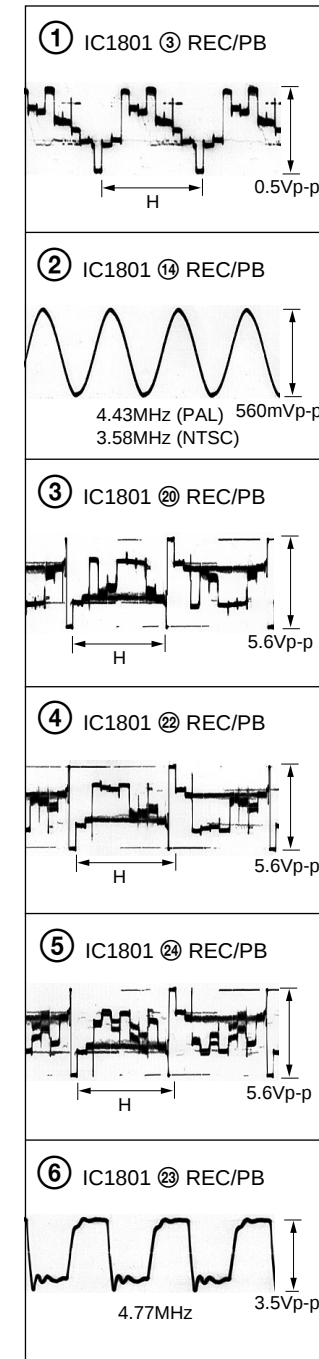
IC2018 5600

IC2019 5600

IC2020 5600

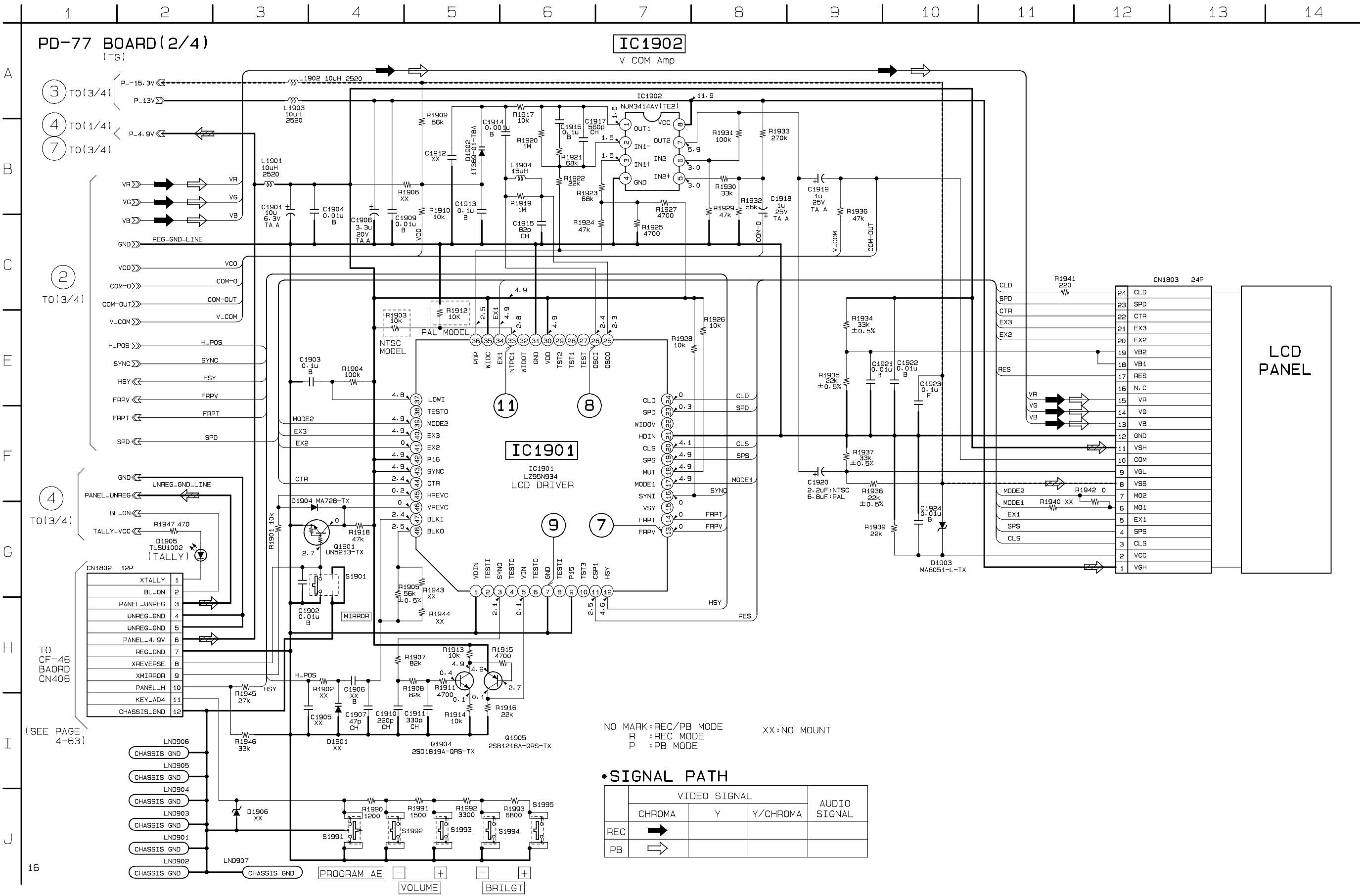
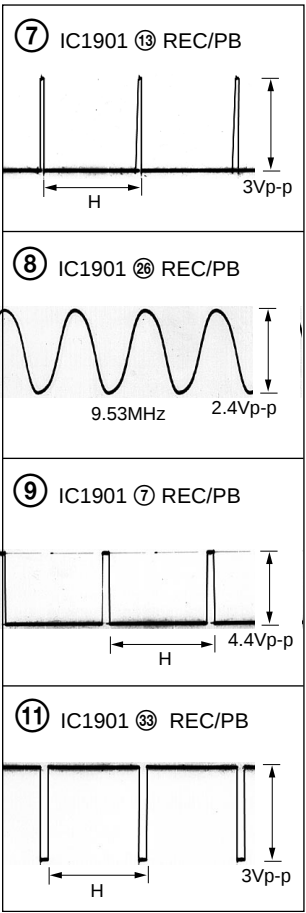
IC2021 5600

IC2022



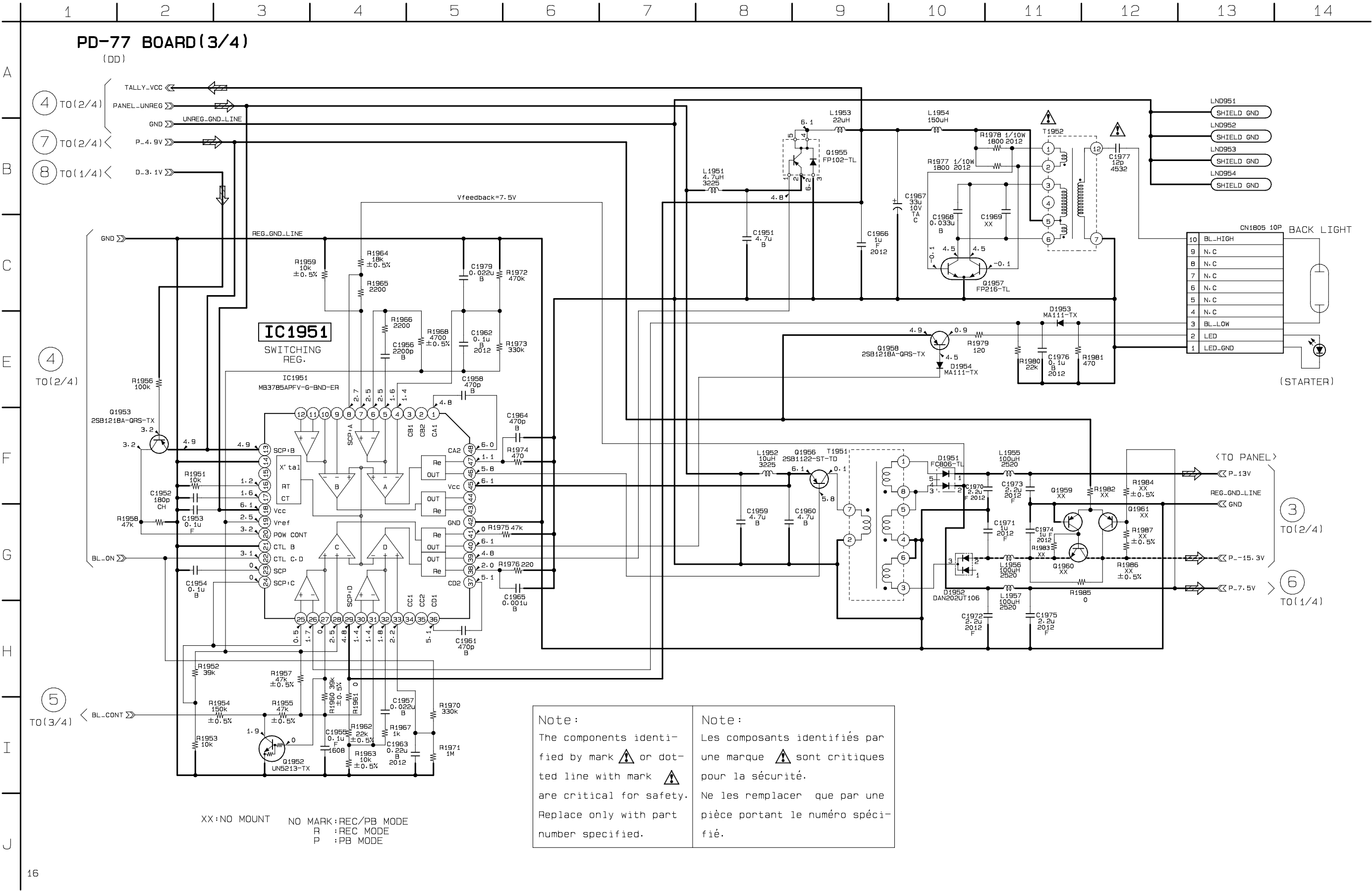
```
NO MARK:REC/PB MODE
  R  :REC MODE
  P  :PB MODE
```

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				



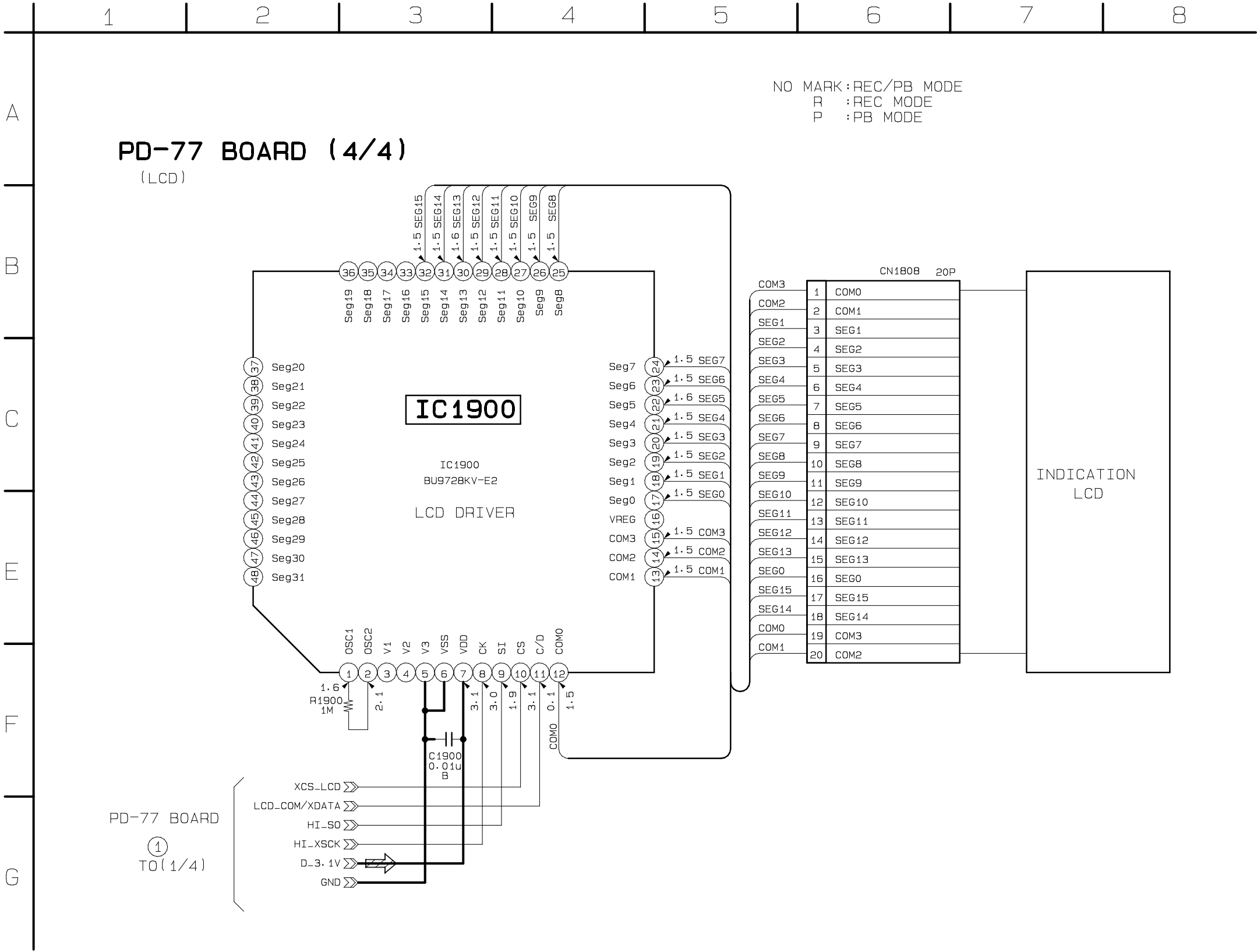
PD-77 (LCD) SCHEMATIC DIAGRAM
— Ref. No. PD-77 Board; 8,000 Series —

• See page 4-111 for PD-77 BOARD printed wiring board.



PD-77 (LCD) SCHEMATIC DIAGRAM
— Ref. No. PD-77 Board; 8,000 Series —

• See page 4-111 for PD-77 BOARD printed wiring board.



— Ref. No. PD-74 Board; 8,000 Series —

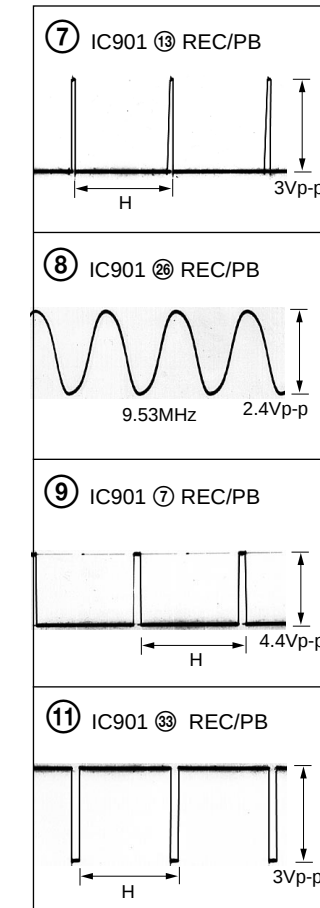


XX:No mount

NO MARK: REC/PB MODE
R : REC MODE
P : PB MODE

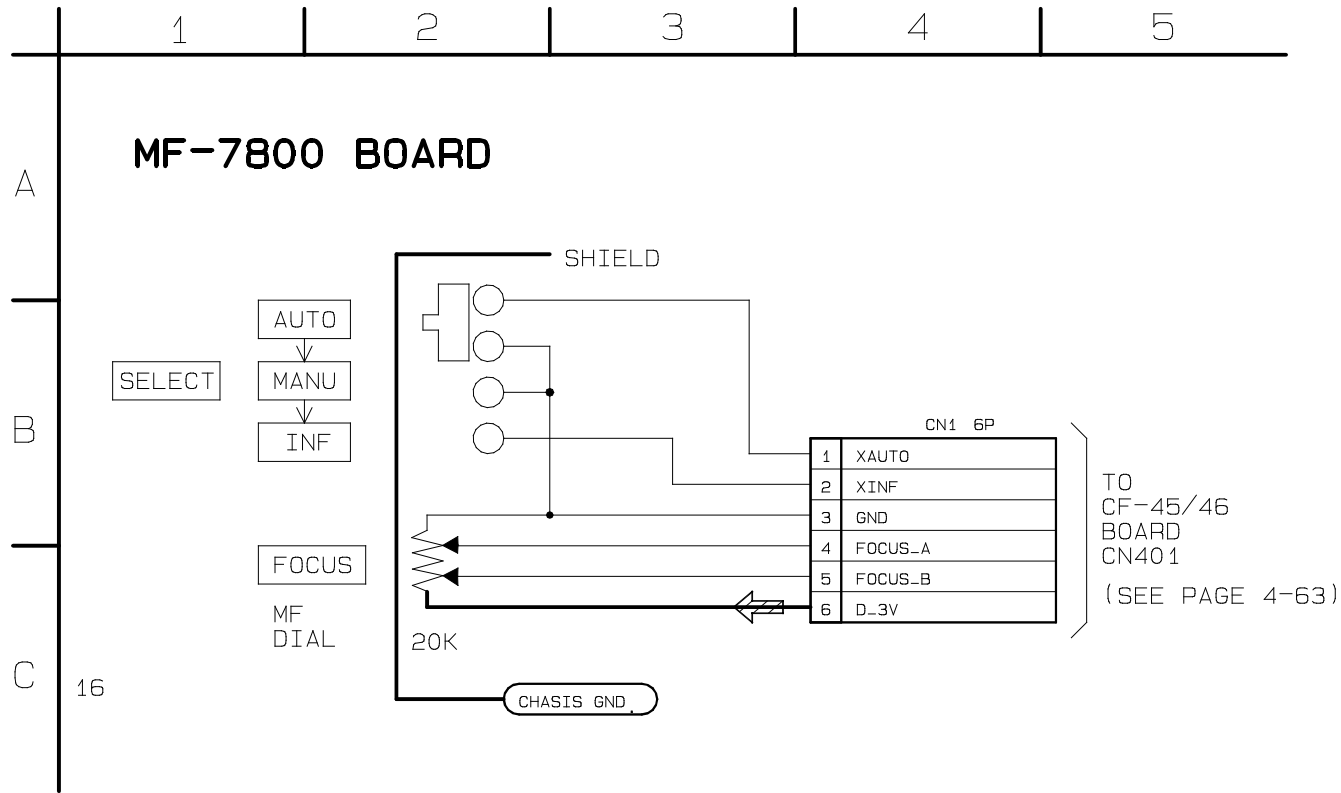
- SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				



Date	96.10.03	
Ref_No	CASIO-2.5 NTSC	CASIO-2.5 PAL
C908	0.01u	XX
C909	XX	47p
D902	1T369-01-T	XX
R909	XX	3300
R910	1M	XX
R912	B2k	XX
R913	XX	68k
R939	10k	XX
R940	XX	10k

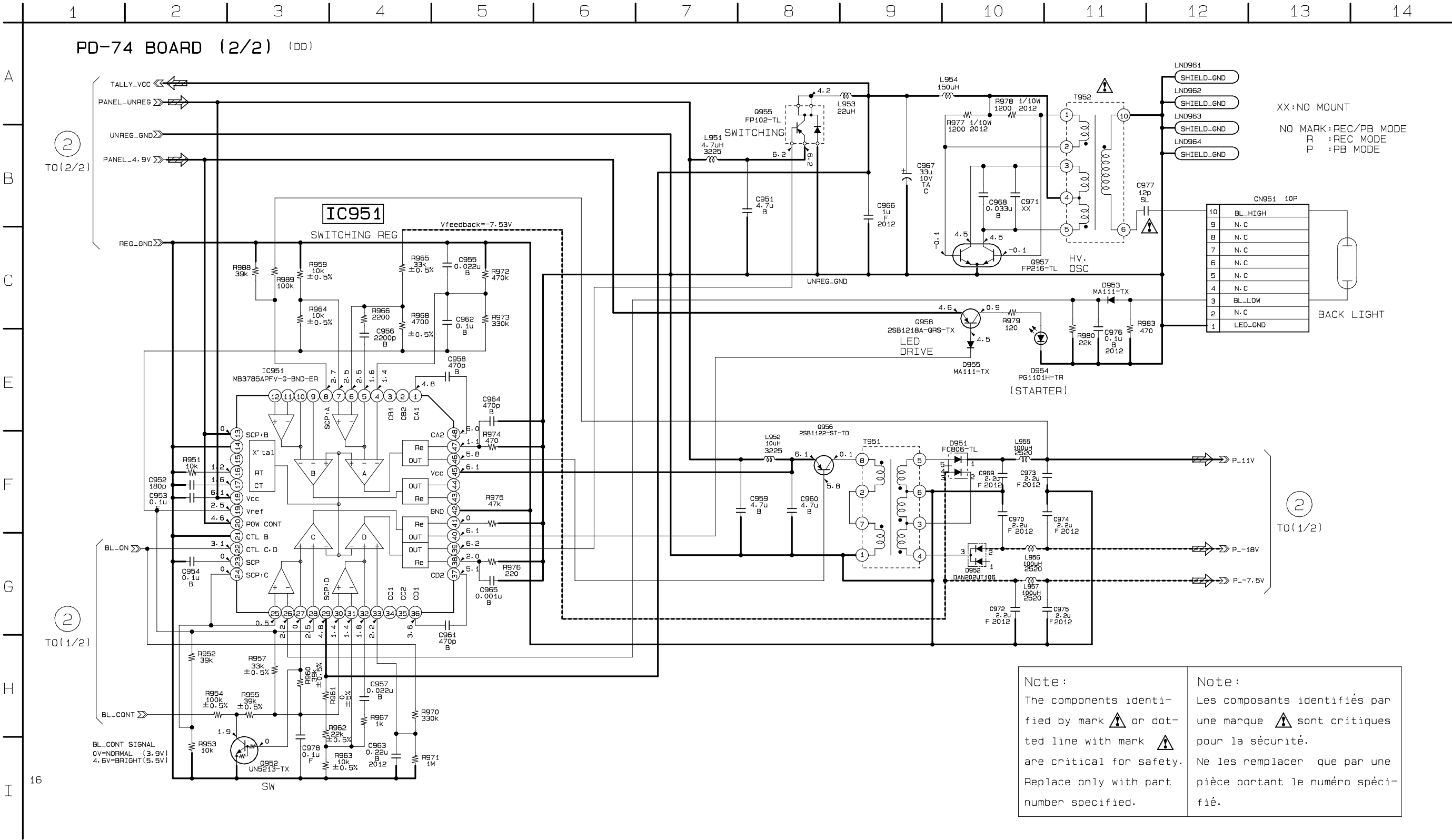
MF-7800 (FOCUS) SCHEMATIC DIAGRAM • Replaced are Blocks, so that there PRINTED WIRING BOARD are omitted.



PD-74 (LCD DRIVER) SCHEMATIC DIAGRAM

— Ref. No. PD-74 Board; 8,000 Series —

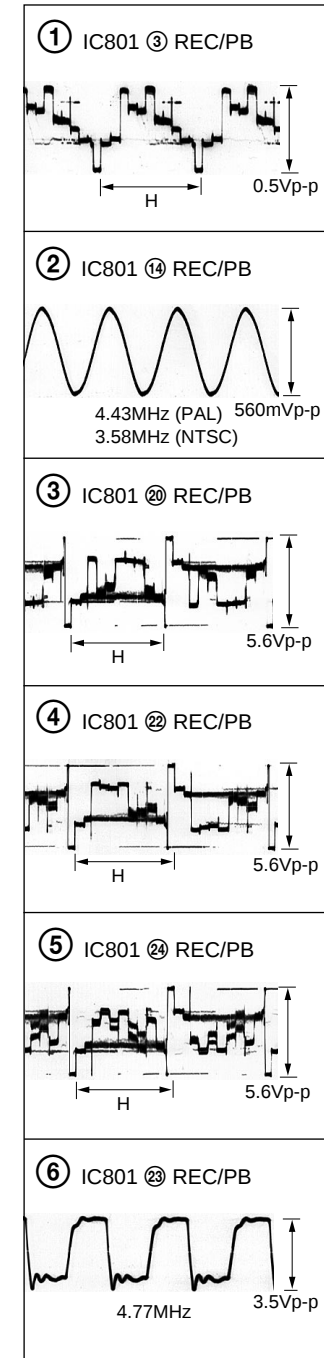
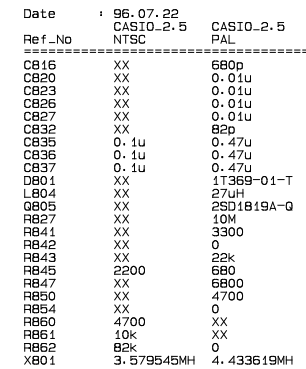
• See page 4-113 for PD-74 BOARD printed wiring board.



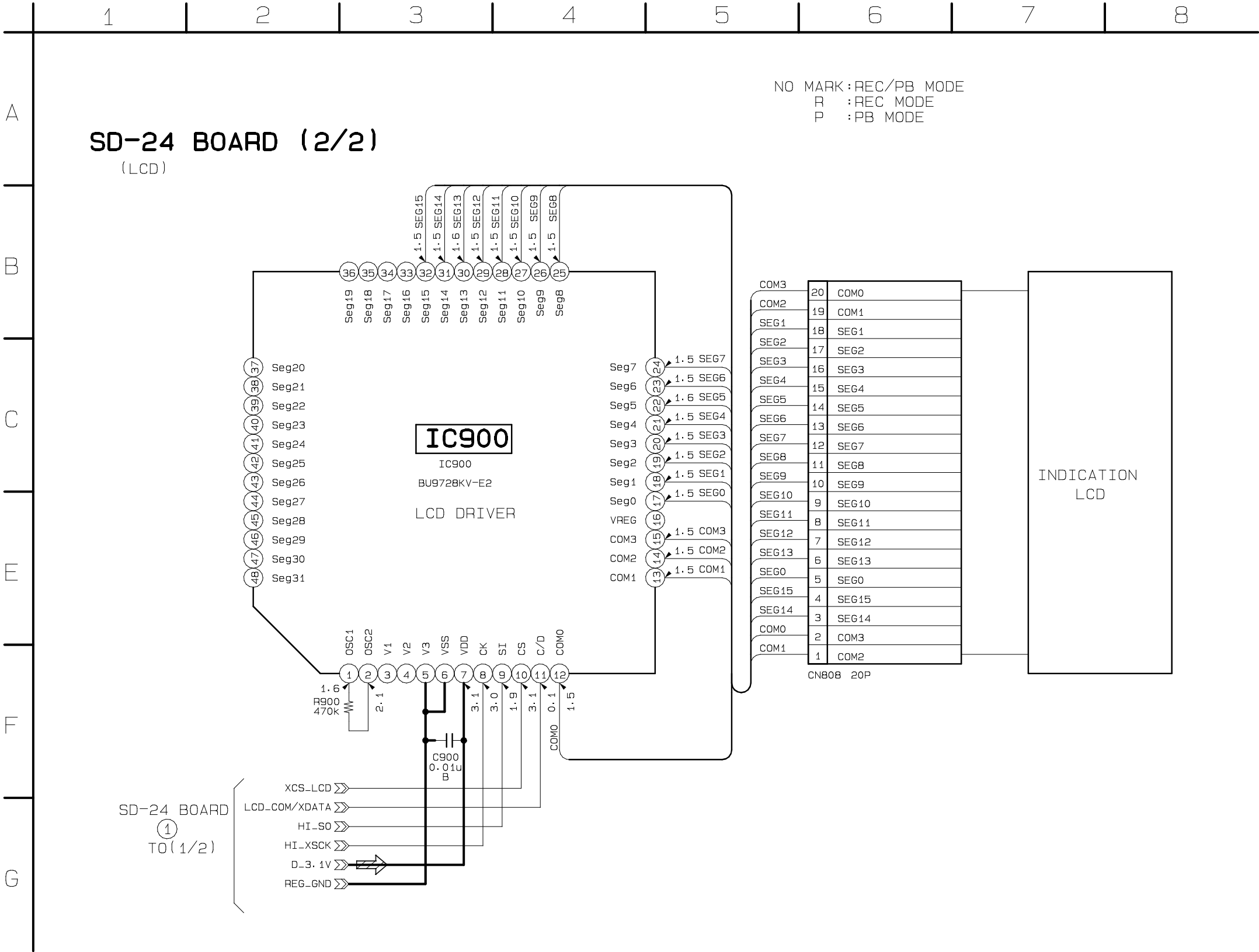
— Ref. No. SD-24 Board; 8,000 Series —

1

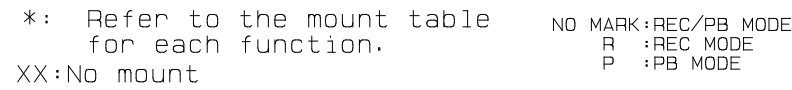
2



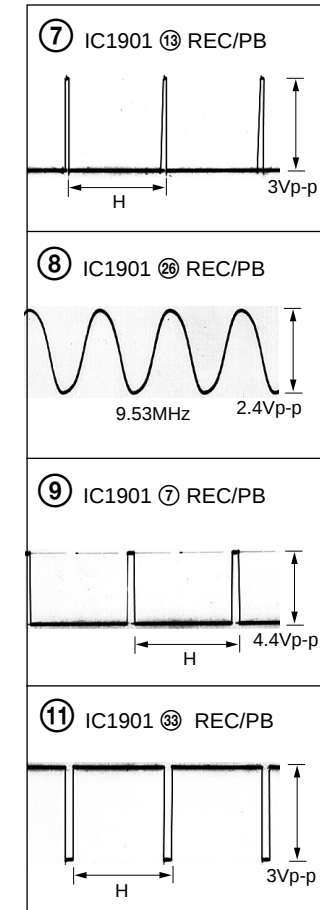
SD-24 (RGB) SCHEMATIC DIAGRAM
— Ref. No. SD-24 Board; 8,000 Series —



— Ref. No. PD-75 Board; 8,000 Series —



	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				

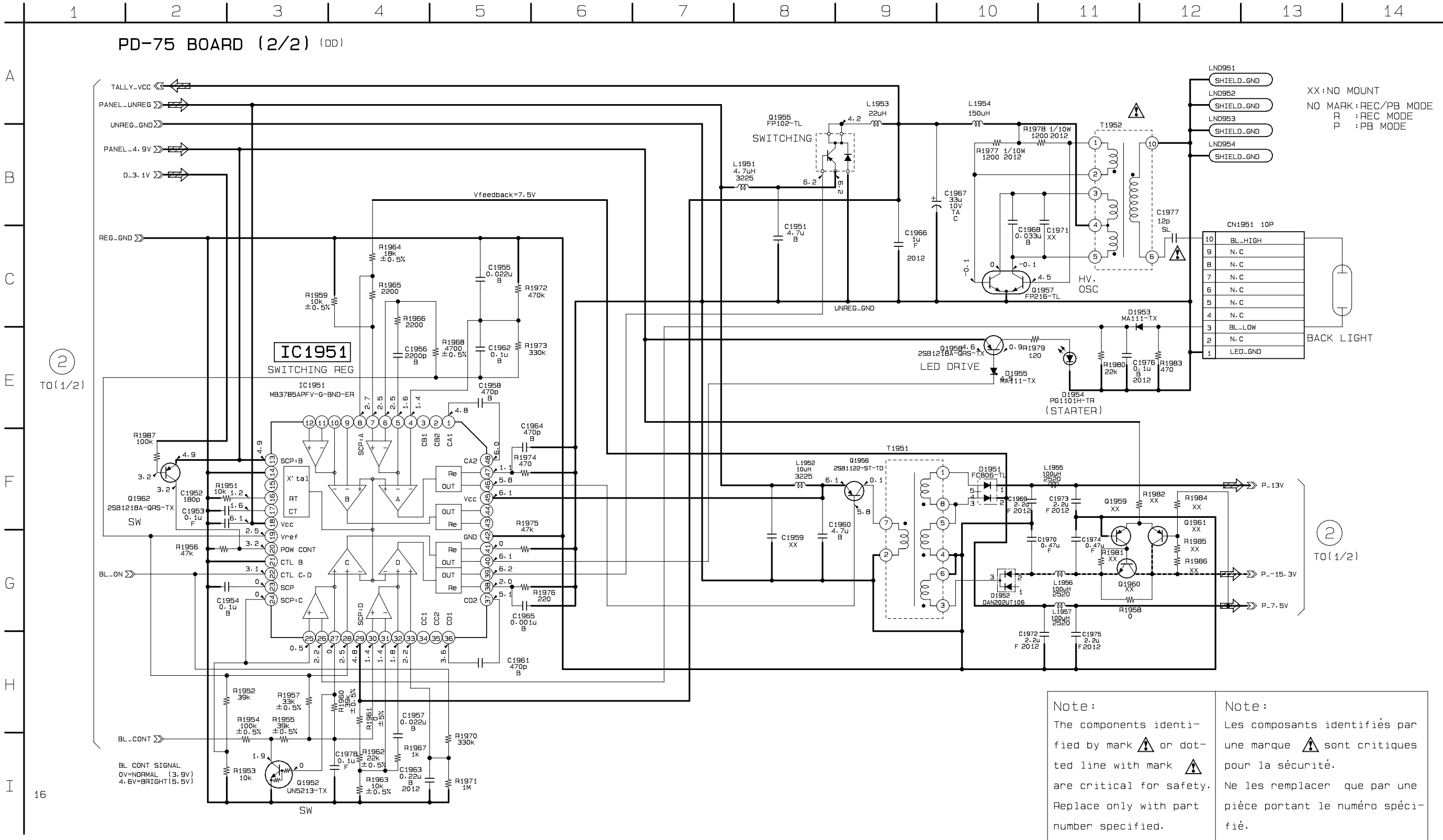


CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
CCD-TRV14E/TRV24E/TRV44E(PAL)

PD-75 (LCD DRIVER) SCHEMATIC DIAGRAM

— Ref. No. PD-75 Board; 8,000 Series —

• See page 4-129 for PD-75 BOARD printed wiring board.



— Ref. No. SD-25 Board; 8,000 Series —

SD-25 BOARD (1/2)

(RGB)

TO CF

TO PD BOARD

PROGRAM AE

IC1801 RGB DECODER

IC1802 EVR D/A CONV.

IC1803 2501819A-QRS-TX BUFFER

IC1804 2501819A-QRS-TX BUFFER

IC1805 2501819A-QRS-TX BUFFER

IC1806 16P

IC1807 16P

IC1808 16P

IC1809 16P

IC1810 16P

IC1811 16P

IC1812 16P

IC1813 16P

IC1814 16P

IC1815 16P

IC1816 16P

IC1817 16P

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IC1992 16P

IC1993 16P

IC1994 16P

IC1995 16P

IC1996 16P

IC1997 16P

IC1998 16P

IC1999 16P

IC2000 16P

IC2001 16P

IC2002 16P

IC2003 16P

IC2004 16P

IC2005 16P

IC2006 16P

IC2007 16P

IC2008 16P

IC2009 16P

IC2010 16P

IC2011 16P

IC2012 16P

IC2013 16P

IC2014 16P

IC2015 16P

IC2016 16P

IC2017 16P

IC2018 16P

IC2019 16P

IC2020 16P

IC2021 16P

IC2022 16P

IC2023 16P

IC2024 16P

IC2025 16P

IC2026 16P

IC2027 16P

IC2028 16P

IC2029 16P

IC2030 16P

IC2031 16P

IC2032 16P

IC2033 16P

IC2034 16P

IC2035 16P

IC2036 16P

IC2037 16P

IC2038 16P

IC2039 16P

IC2040 16P

IC2041 16P

IC2042 16P

IC2043 16P

IC2044 16P

IC2045 16P

IC2046 16P

IC2047 16P

IC2048 16P

IC2049 16P

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Date      : 96.07.25
Ref_No    : SHARP-2.2      SHARP-2.5
           NTSC            PAL
=====
C1818     XX      680P
C1821     XX      0.0 1u
C1825     XX      0.0 1u
C1828     XX      0.0 1u
C1829     XX      0.0 1u
C1830     XX      39u
C1836     0.1u    0.3 3u
C1837     0.1u    0.3 3u
C1838     0.1u    0.3 3u
D1801     X      119A9-01-T
L1804     X      271uH
D1809     X      2501B-01-T
R1811     X      10M
R1832     27k    39u
R1833     12k    22k
R1835     X      22k
R1841     X      39k
R1845     X      47k
R1849     2200   680
R1850     X      5600
R1854     X      4700
R1855     27k    XX
R1856     22k    XX
R1867     68k    XX
X1801     3.579545MHZ 4.433619MHZ

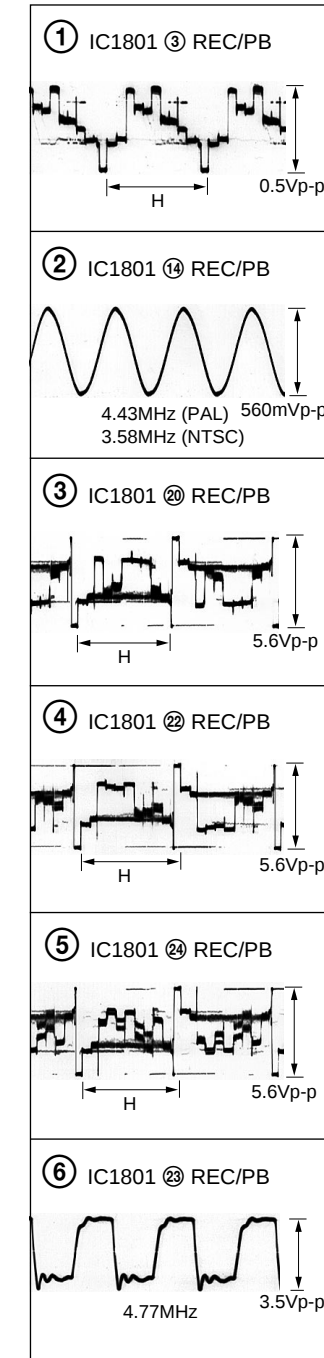
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TO
PD-75
BOARD
CN1807
(SEE PAGE 4-131)

NO MARK:REC/PB MODE
R :REC MODE
P :PB MODE

•SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				



CCD-TRV32/TRV34/TRV34PK/TRV44/TRV52/TRV53/TRV312/TRV512(NTSC)
 CCD-TRV14E/TRV24E/TRV44E(PAL)

SD-25 (RGB) SCHEMATIC DIAGRAM
 — Ref. No. SD-25 Board; 8,000 Series —

