

CCD-TRV15/TRV15E/TRV15EP/TRV15PK/TRV25/ TRV25PK/TRV35/TRV35E/TRV65/TRV65PK/ TRV85/TRV93/TRV215/TRV615/TRV815 RMT-708

SERVICE MANUAL



Photo : CCD-TRV93
: RMT-708

Handycam Vision™

Video 8 XR
video Hi8 XR

B MECHANISM

US Model
CCD-TRV15/TRV25/TRV65/TRV85/TRV93/
TRV215/TRV615/TRV815
Canadian Model
CCD-TRV15/TRV25/TRV65/TRV93/
TRV215/TRV615
E Model
CCD-TRV15/TRV15EP/TRV15PK/TRV25PK/
TRV35/TRV35E/TRV65PK
AEP Model
UK Model
East European Model
North European Model
Russian Model
CCD-TRV15E/TRV35E
Hong Kong Model
CCD-TRV15/TRV35/TRV35E
Tourist Model
CCD-TRV35/TRV35E
Australian Model
Chinese Model
CCD-TRV35E
Brazilian Model
CCD-TRV15/TRV65

SPECIFICATIONS

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

Video camera recorder System

Video recording system
CCD-TRV65/TRV65PK/TRV85/TRV93/
TRV615/TRV815 : 4 rotary heads (SP/
LP independent heads)
CCD-TRV15/TRV15PK/TRV15E/
TRV15EP/TRV25/TRV25PK/TRV35/
TRV35E/TRV215 : 2 Rotary heads
Helical scanning FM system
Audio recording system
Rotary heads, FM system
Video signal
CCD-TRV15/TRV15PK/TRV25/
TRV25PK/TRV35/TRV65/TRV65PK/
TRV85/TRV93/TRV215/TRV615/
TRV815 :
NTSC color, EIA standards
CCD-TRV15E/TRV15EP/TRV35E :
PAL color CCIR standards
Usable cassette
8mm video format cassette
CCD-TRV15/TRV15PK/TRV15E/
TRV15EP/TRV25/TRV25PK/TRV35/
TRV35E/TRV215 : standard 8
CCD-TRV65/TRV65PK/TRV85/TRV93/
TRV615/TRV815 : Hi8 or standard 8

Recording / Playback time
CCD-TRV15/TRV15PK/TRV25/
TRV25PK/TRV35/TRV65/TRV65PK/
TRV85/TRV93/TRV215/TRV615/
TRV815 :
(using 120 min. cassette)
SP mode: 2 hours
LP mode: 4 hours
CCD-TRV15E/TRV15EP/TRV35E :
(using 90 min. cassette)
SP mode: 1 hours and 30 minutes
LP mode: 3 hours
Fastforward/rewind time
CCD-TRV15/TRV15PK/TRV25/
TRV25PK/TRV35/TRV65/TRV65PK/
TRV85/TRV93/TRV215/TRV615/
TRV815 :
(using 120 min. cassette) Approx. 5 min.
CCD-TRV15E/TRV15EP/TRV35E :
(using 90 min. cassette) Approx. 5 min.
Image device
CCD (Charge Coupled Device)
Viewfinder
Electronic viewfinder
CCD-TRV15/TRV15PK/TRV15E/
TRV15EP/TRV25/TRV25PK/TRV35/
TRV35E/TRV65/TRV65PK/TRV85/
TRV215/TRV615/TRV815 :
Monochrome
CCD-TRV93 :
Color 113,578 (521 x 218)

Lens
Combined power zoom lens
Filter diameter 17/16 in. (37 mm)
CCD-TRV15 (US,CND)/TRV15E
(AEP,UK)/TRV25 (AEP,UK)/TRV215 :
16 x (Optical), 64 x (Digital)
CCD-TRV15 (E,HK,BR)/TRV15PK/
TRV15E (NE,EE,RU)/TRV15EP/
TRV25PK : 16 x (Optical), 200 x
(Digital)
TRV35E (AEP,UK)/TRV65/TRV85/
TRV93/TRV615/TRV815 :
18 x (Optical), 72 x (Digital)
CCD-TRV35/TRV35E
(EE,NE,RU,E,AUS,HK,CN,JE)/
TRV65PK :
18 x (Optical), 220 x (Digital)

Focal distance
CCD-TRV15/TRV15PK/TRV15E/
TRV15EP/TRV25/TRV25PK/TRV215 :
3/16 - 2 5/8 in. (4.1 - 65.6 mm)
CCD-TRV35/TRV35E/TRV65/
TRV65PK/TRV85/TRV93/TRV615/
TRV815 : 3/16 - 8 in. (4.1 - 73.8 mm)
When converted to a 35 mm still camera
CCD-TRV15/TRV15PK/TRV15E/
TRV15EP :
1 9/16 - 24 7/8 in. (39.4 - 630 mm)
CCD-TRV25/TRV25PK/TRV215 :
1 7/8 - 29 3/4 in. (47.2 - 755 mm)
CCD-TRV35/TRV35E/TRV65/
TRV65PK/TRV85/TRV93/TRV615/
TRV815 :
1 7/8 - 33 1/2 in. (47.2 - 850 mm)

— Continued on next page —

8 VIDEO CAMERA RECORDER

CCD-TRV15/TRV15E/TRV15PK/TRV15EP/TRV25/
TRV25PK/TRV35/TRV35E/TRV215

Hi8 VIDEO CAMERA RECORDER

CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815



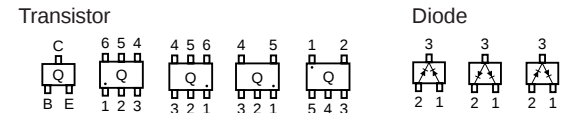
SONY®

4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

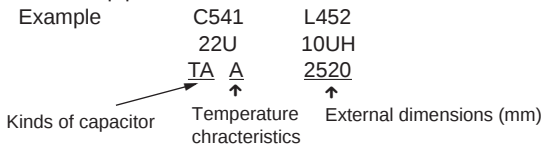
• For printed wiring boards.

- b : Pattern from the side which enable seeing.
(The other layer's patterns are not indicated.)
- Circled numbers refer to waveforms.
- Through hole is omitted.
- There are few cases that the part printed on diagram isn't mounted in this model.
- Chip parts.



• For schematic diagrams.

- All capacitors are in μF unless otherwise noted. pF : μF .
- 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistor are 1/16W unless otherwise noted.
- $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000k Ω .
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, because it is damaged by the heat.
- Some chip part will be indicated as follows.



- Constants of resistors, capacitors, ICs and etc with XX indicate tha they are not used. In such cases, the unused circuits may be indicated.
- Parts with ☆ differ according to the model/destination. Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Signal name
XEDIT → EDIT PB/XREC → PB/REC

- 2 : non flammable resistor.
- 1 : fusible resistor.
- H : panel designation.
- A : B+ Line
- B : B- Line
- J : IN/OUT direction of (+, -) B LINE.
- C : adjustment for repair.
- Circled numbers refer to waveforms.

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

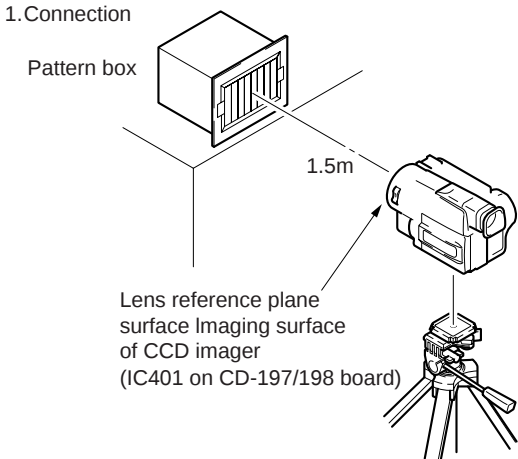
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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

Refer to page 3 as for "Table for difference of functions" of models and classification.

• Measuring conditions voltage value and waveform.

- The object is color bar chart of pattern box.
- Voltages and dc between ground and measurement points.
Readings are taken with a digital multimeter (DC 10M Ω).
- Voltages variations may be noted due to normal production tolerances.



2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

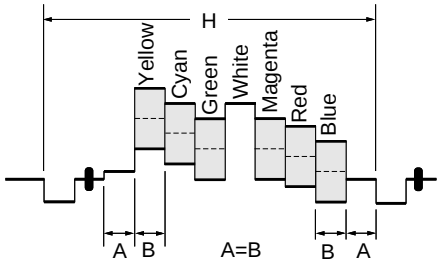


Fig. a (Video output terminal output waveform)

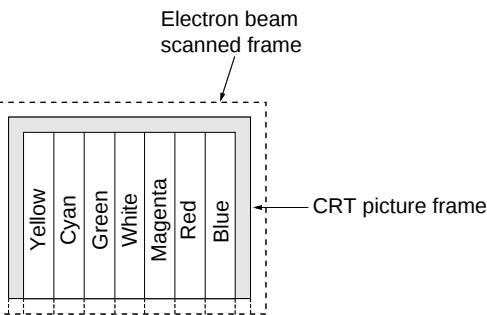
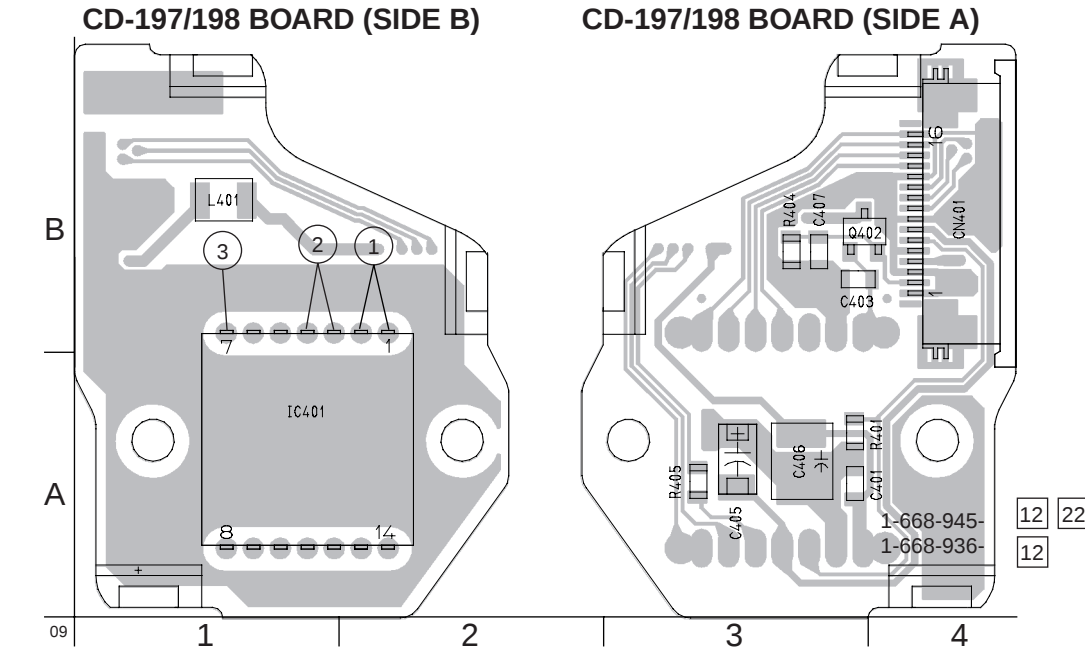


Fig. b (Picture on monitor TV)

CD-197/198 (CCD IMAGER) (2.5 INCH LCD, 3 INCH/3.5 INCH LCD MODEL) PRINTED WIRING BOARD

— Ref No. CD-197 BOARD: 4,000 series, CD-198 BOARD: 9,000 series —



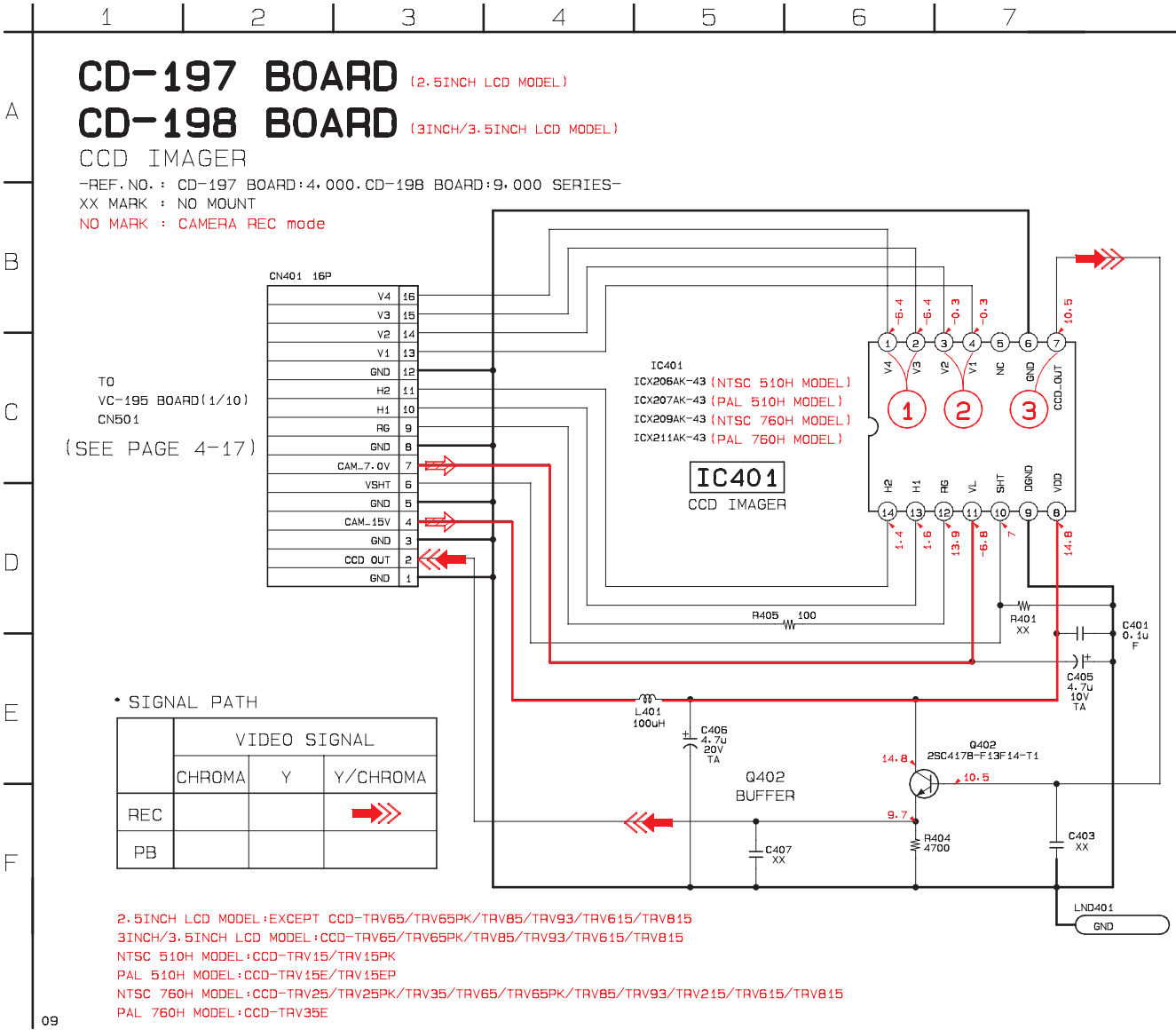
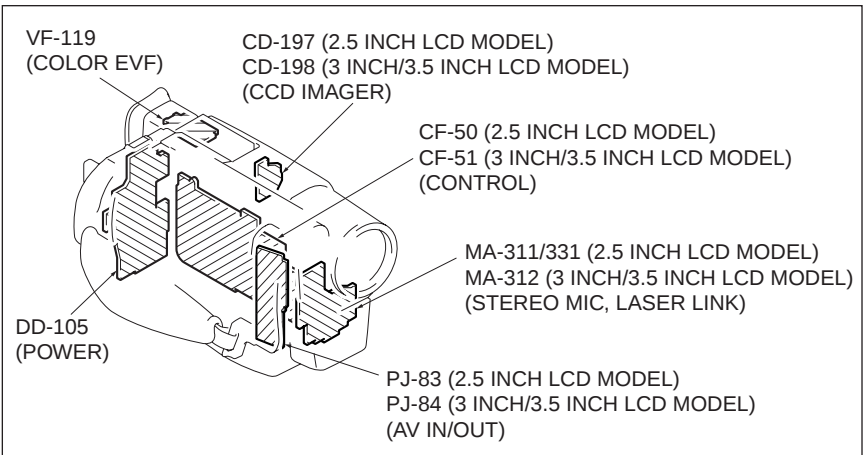
CD-197/
CD-198 BOARD

C401	A-3
C403	B-3
C405	A-3
C406	A-3
C407	B-3
CN401	B-4
IC401	A-1
L401	B-1
Q402	B-3
R401	A-3
R404	B-3
R405	A-3

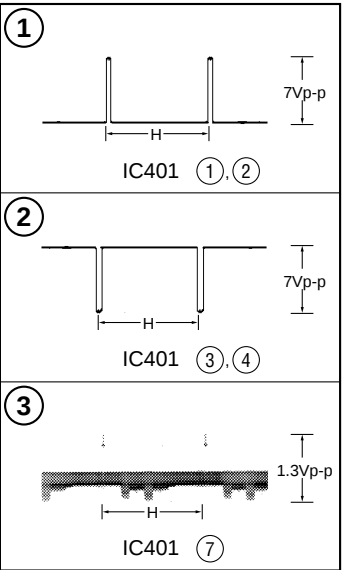
• For Printed Wiring Boards.

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

• Chip transistor



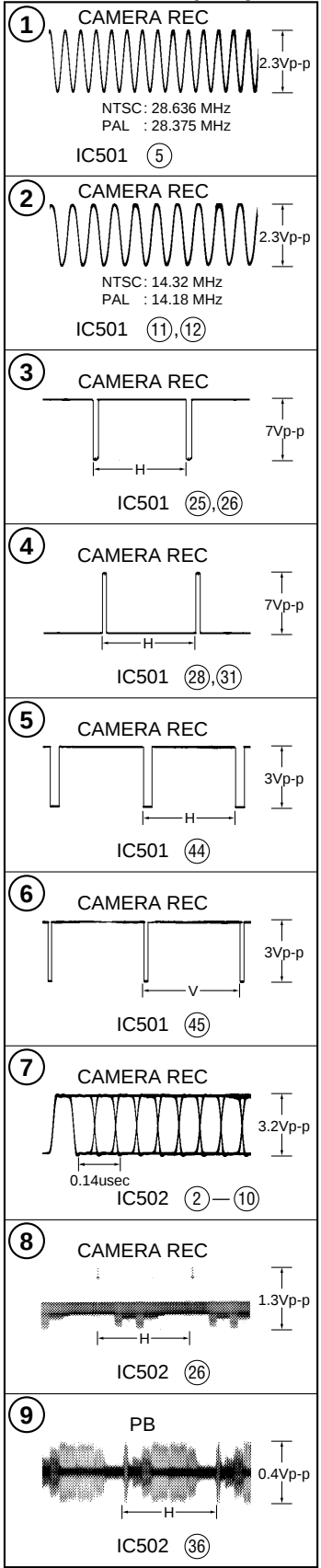
CD-197/198 BOARD
CAMERA REC



Note on the CCD imager replacement

- The CCD imager is not mounted for the already mounted CD-197/198 board supplied as the repair parts.
When replacing the CD-197/198 board, remove the CCD imager from the old board and install on the new board.
- Perform all adjustments of the camera block when the CCD imager has been replaced.
- Handle the CCD imager with attention such as MOS IC as it may be broken by static electricity in the structure.
Also, prevent the receiving light section from dust attached and strong light.

VC-195 BOARD (1/10)



VC-195 BOARD (1/10)

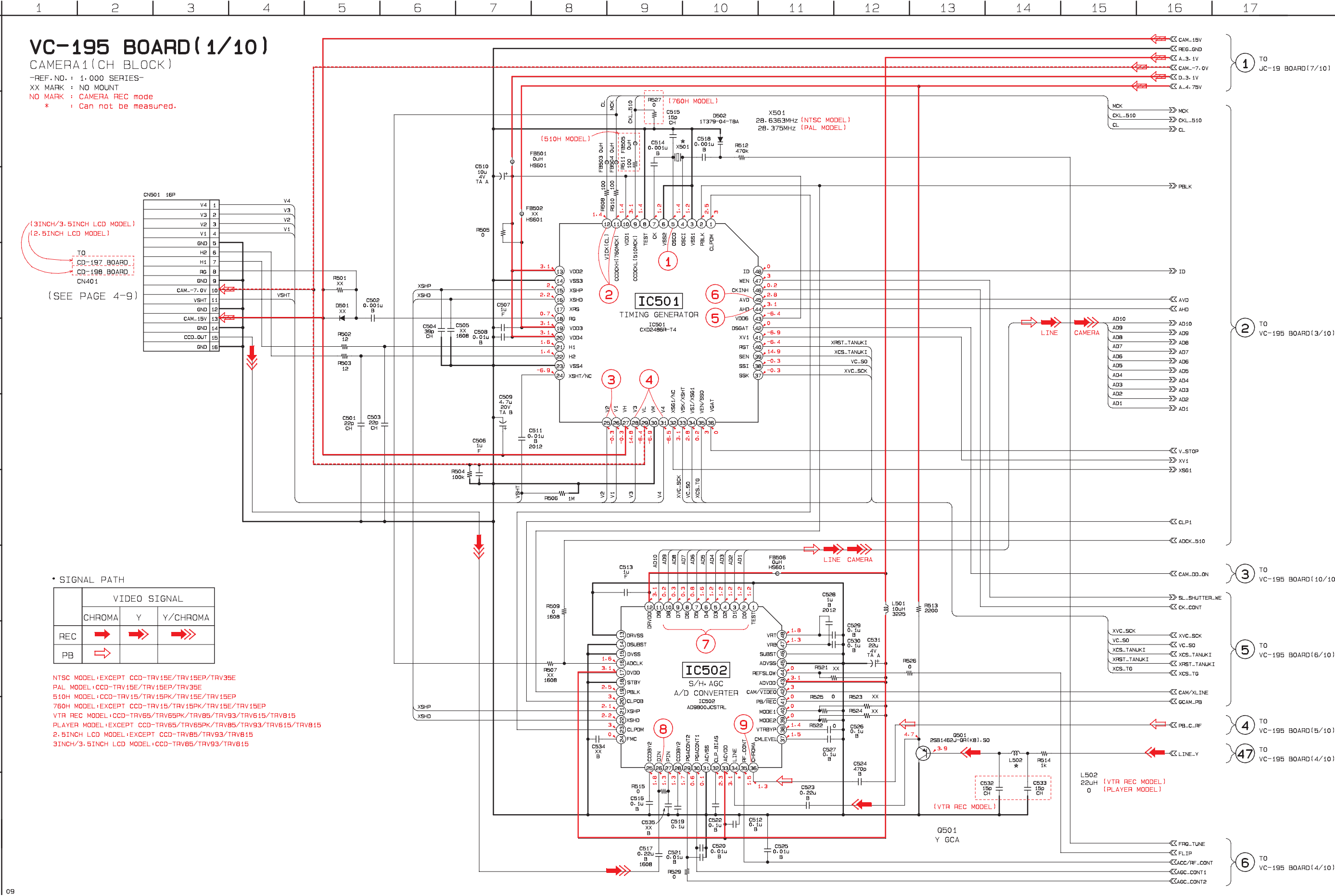
CAMERA1(CH BLOCK)
-REF. NO. : 1.000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC mode
* : Can not be measured.

(3 INCH/3.5 INCH LCD MODEL)
(2.5 INCH LCD MODEL)
TO
CD-197 BOARD
CD-198 BOARD
CN401
(SEE PAGE 4-9)

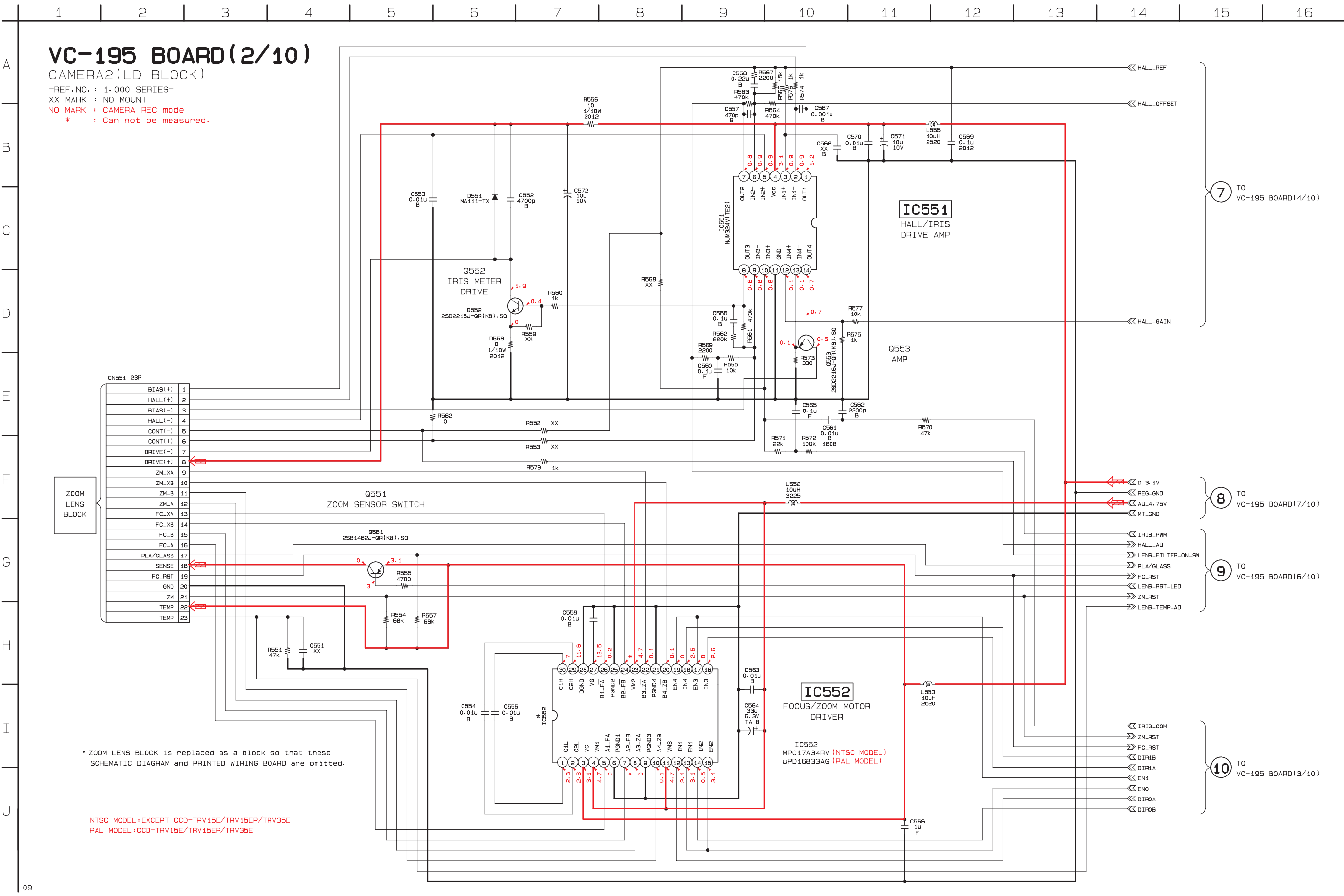
• SIGNAL PATH

	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC	⇒	⇒	⇒
PB	⇒		

NTSC MODEL: EXCEPT CCD-TRV15E/TRV15EP/TRV35E
PAL MODEL: CCD-TRV15E/TRV15EP/TRV35E
510H MODEL: CCD-TRV15E/TRV15PK/TRV15E/TRV15EP
760H MODEL: EXCEPT CCD-TRV15E/TRV15PK/TRV15E/TRV15EP
VTR REC MODEL: CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
PLAYER MODEL: EXCEPT CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
2.5 INCH LCD MODEL: EXCEPT CCD-TRV85/TRV93/TRV815
3 INCH/3.5 INCH LCD MODEL: CCD-TRV85/TRV93/TRV815

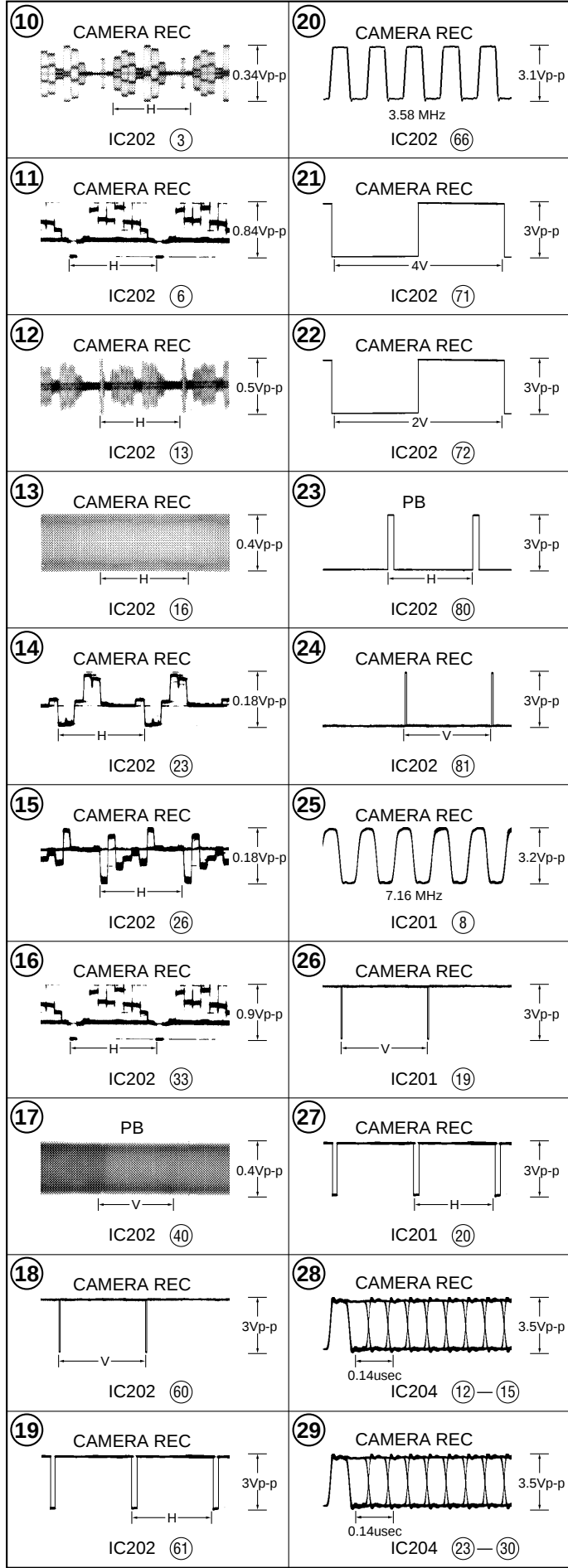


- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.



CCD-TRV15/TRV15E/TRV15EP/TRV15PK/TRV25/TRV25PK/TRV35/TRV35E/
TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615/TRV815

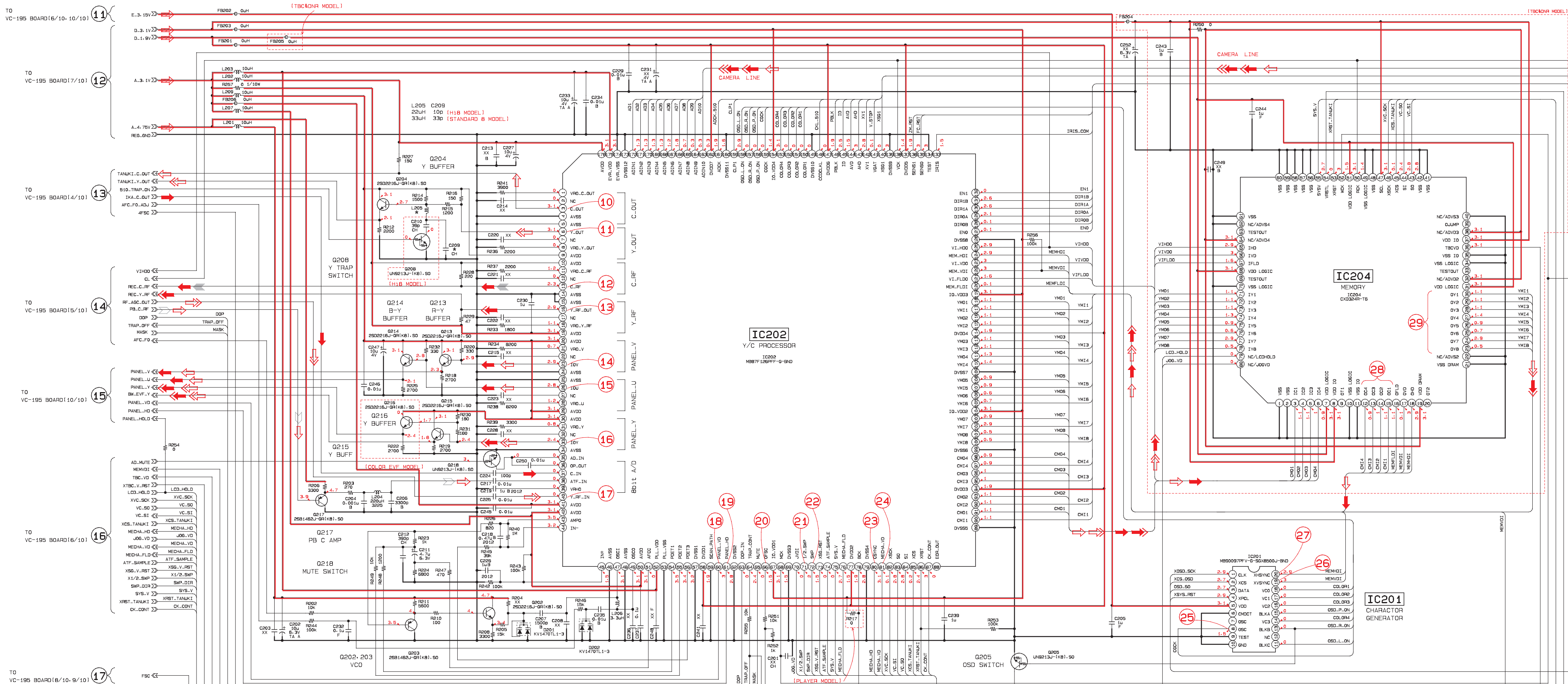
VC-195 BOARD (3/10)



- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.

VC-195 BOARD (3/10)
Y/C PROCESSOR (CL BLOCK)

REF. NO. : 1,000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC mode



SIGNAL PATH

VIDEO SIGNAL	
CHROMA	Y
REC	→
PB	→

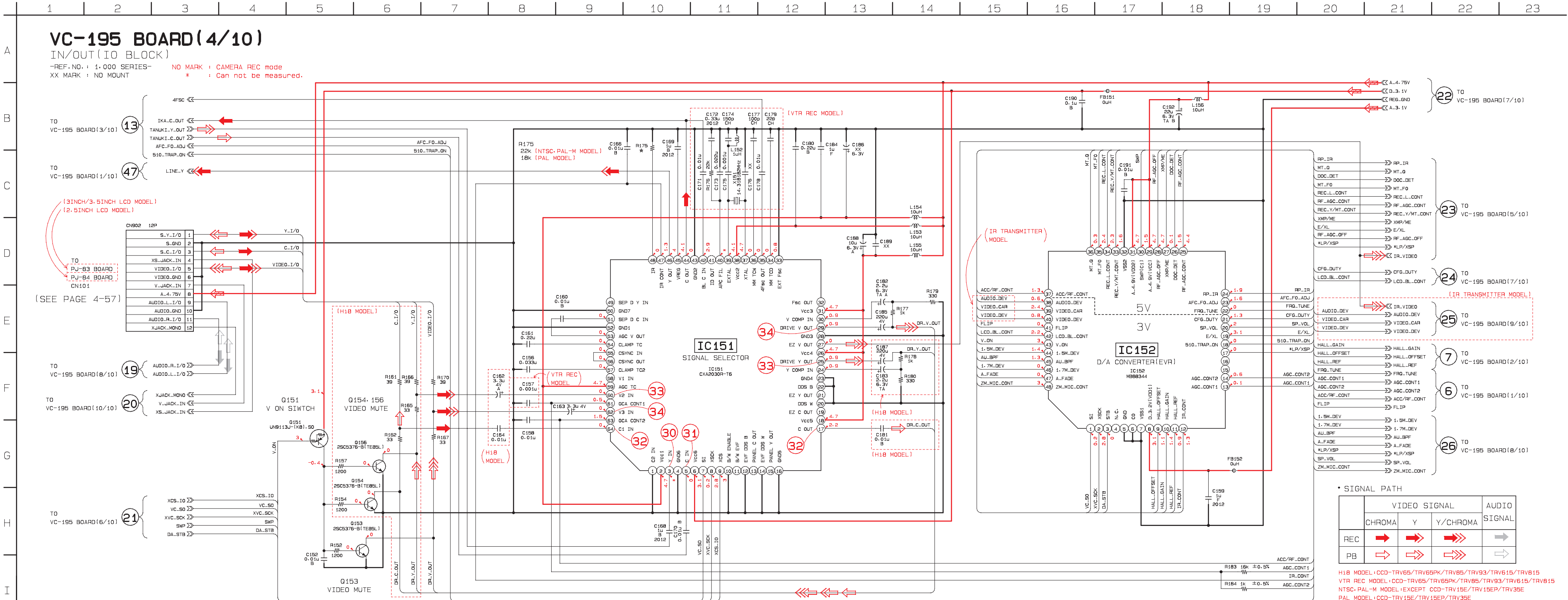
SIGNAL PATH

REC		REC/PB		PB	
Ref. signal	→	→	→	→	→

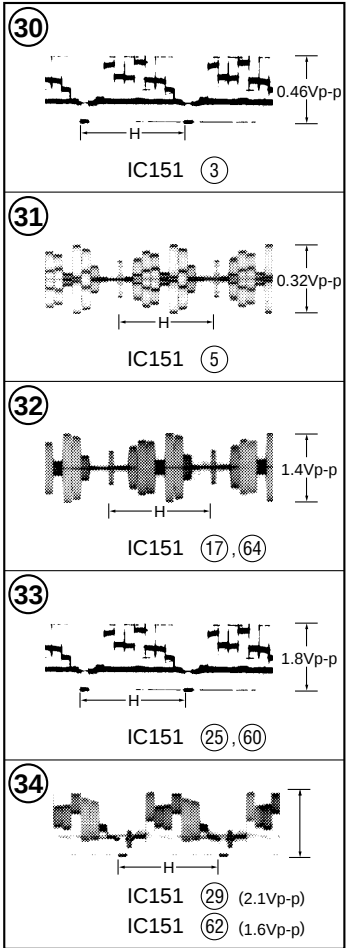
COLOR EVF MODEL:CCD-TRV93
H18 MODEL:CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
STANDARD B MODEL:EXCEPT CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
PLAYER MODEL:EXCEPT CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
TBCKDNA MODEL:CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815

TO VC-195 BOARD (10/10)

- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.



VC-195 BOARD (4/10)
CAMERA REC



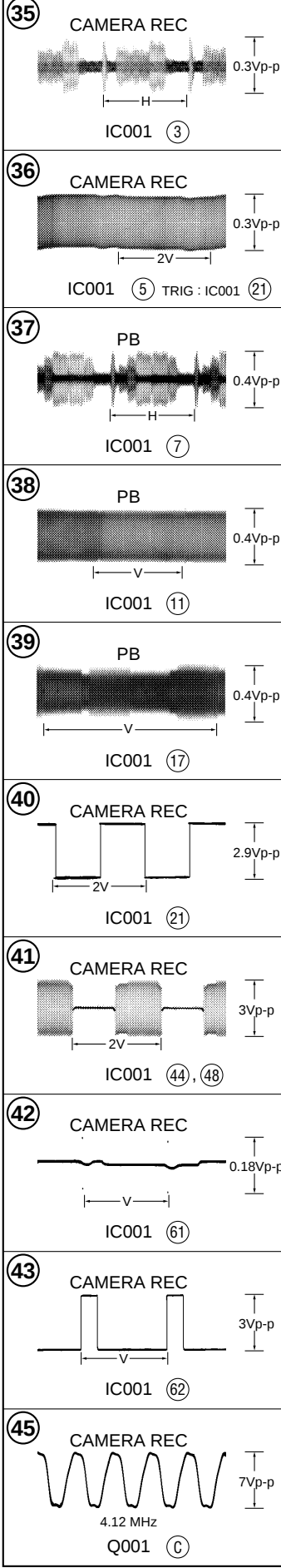
SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				

H18 MODEL : CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
VTR REC MODEL : CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
NTSC-PAL-M MODEL : EXCEPT CCD-TRV15E/TRV15EP/TRV35E
PAL MODEL : CCD-TRV15E/TRV15EP/TRV35E
IR TRANSMITTER MODEL : CCD-TRV35/TRV65/TRV65PK/TRV85/TRV93/
TRV615/TRV815
2.5 INCH LCD MODEL : EXCEPT CCD-TRV85/TRV93/TRV815
3 INCH/3.5 INCH LCD MODEL : CCD-TRV85/TRV93/TRV815

CCD-TRV15/TRV15E/TRV15EP/TRV15PK/TRV25/TRV25PK/TRV35/TRV35E/
TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615/TRV815

VC-195 BOARD (5/10)



REC/PB HEAD AMP
VC-195 (5/10)

- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.

VC-195 BOARD (5/10)

REC/PB HEAD AMP (RR BLOCK)

REF. NO. : 1-000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC/PB mode
R : CAMERA REC mode
P : PB mode

LN0001
LN0002
LN0003

VIDEO HEAD
(5 HAED MODEL)

LP 2CH
LP 1CH
SP 1CH
SP 2CH
FLYING
ERASE

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

IC001 ①①

NTSC MODEL-EXCEPT CCD-TRV15E/TRV15EP/TRV35E
PAL MODEL-CCD-TRV15E/TRV15EP/TRV35E
H18 MODEL-CCD-TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615
STANDARD B MODEL-EXCEPT CCD-TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615
5 HEAD MODEL-CCD-TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615
3 HEAD MODEL-EXCEPT CCD-TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615

SIGNAL PATH

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

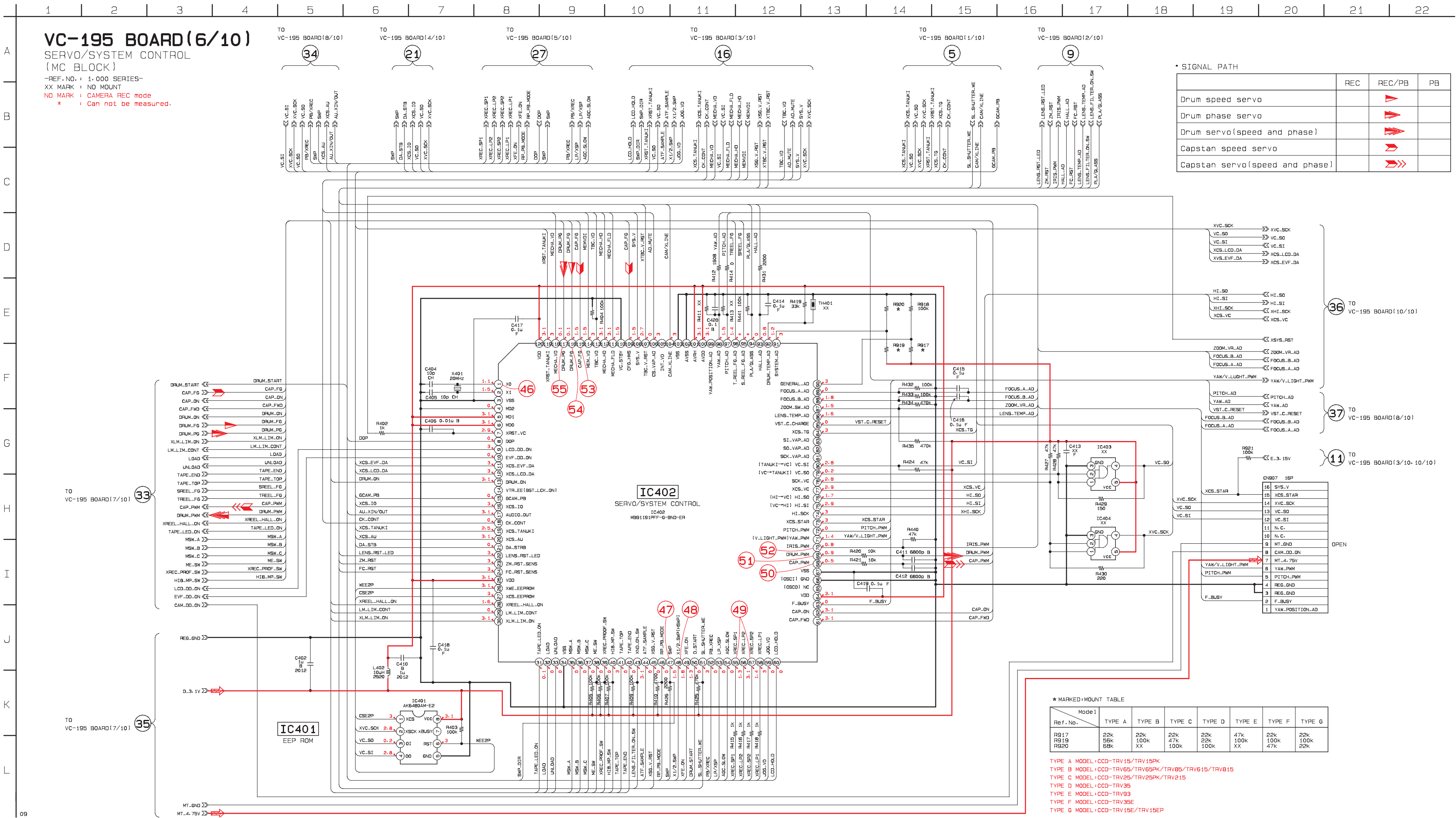
SIGNAL PATH

Ref. signal	REC	REC/PB	PB
	→	→	→

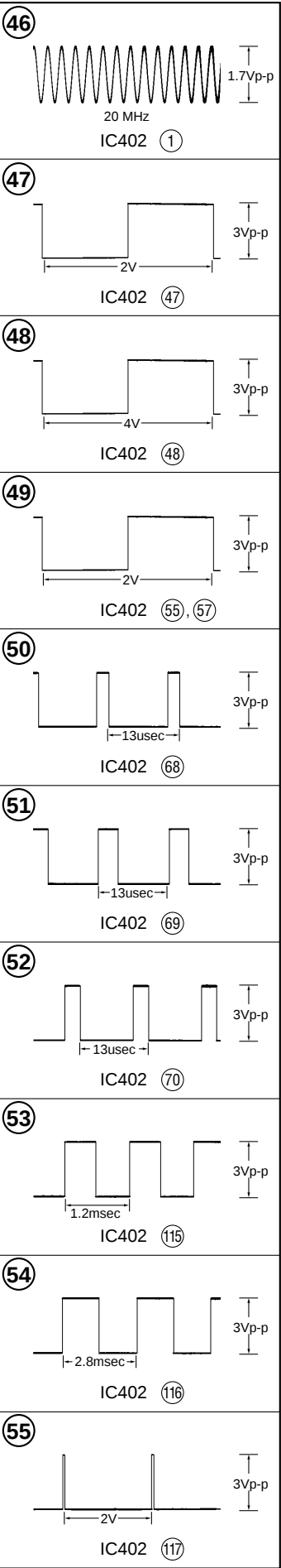
MARKED MOUNT TABLE

Model	H18	NTSC	PAL
Ref. No.			
C075	330p	470p	470p
C080	10p	25p	25p
C083	65p	65p	65p
C088	250p	250p	250p
C089	47p	65p	25p
C090	65p	56p	56p
R063	470	0	56p
R064	3900	330	56p
R077	660	270	270
R105	660	270	270

- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.

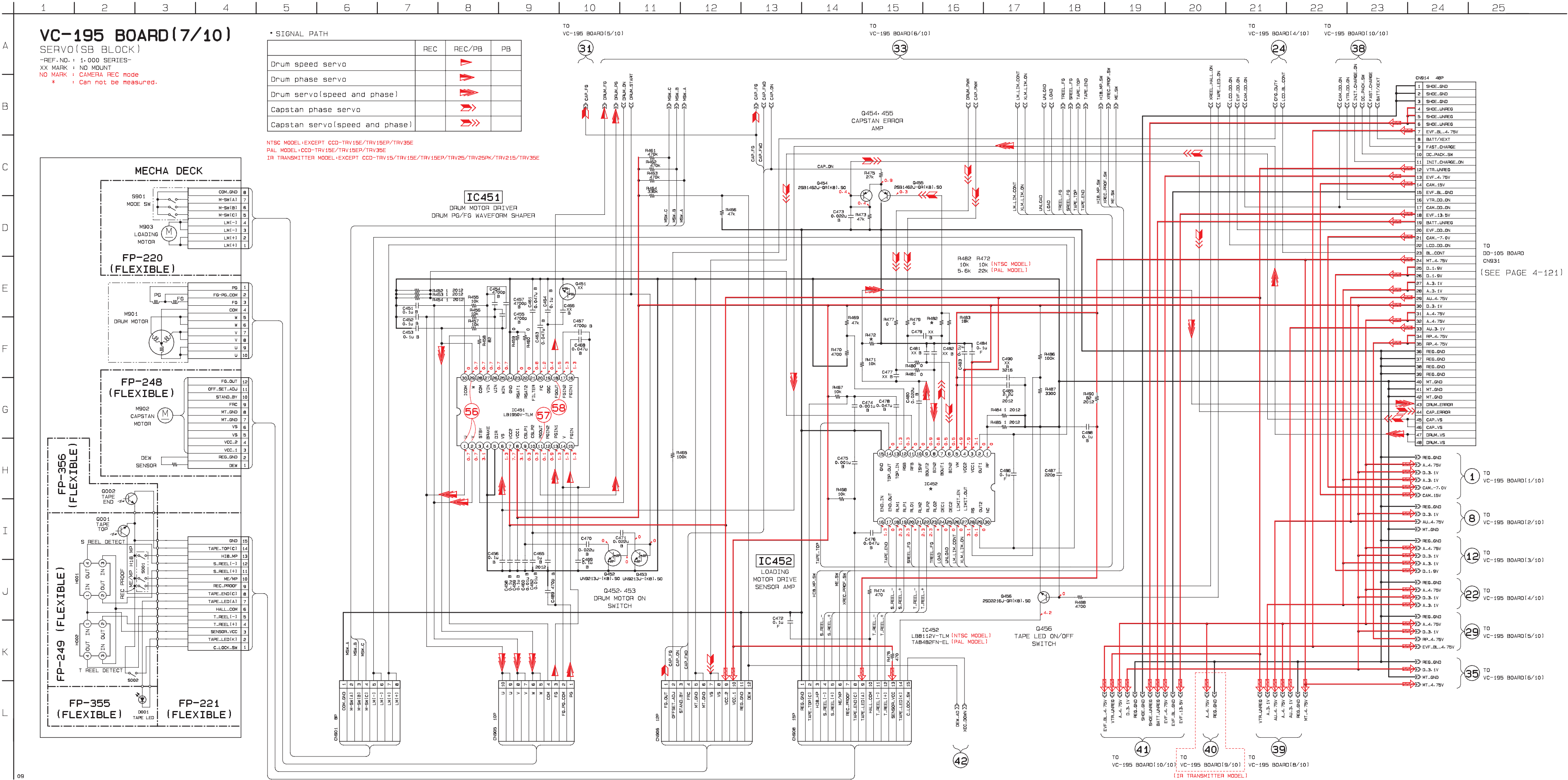


VC-195 BOARD (6/10)
CAMERA REC

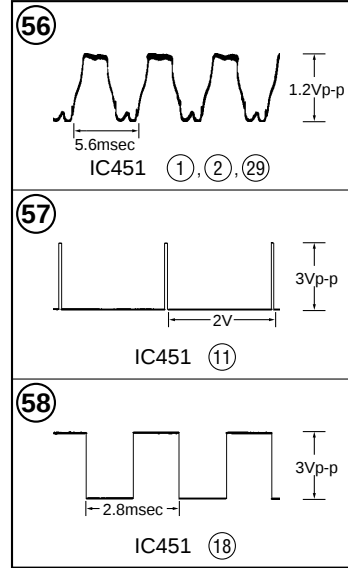


CCD-TRV15/TRV15E/TRV15EP/TRV15PK/TRV25/TRV25PK/TRV35/TRV35E/
TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615/TRV815

- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.

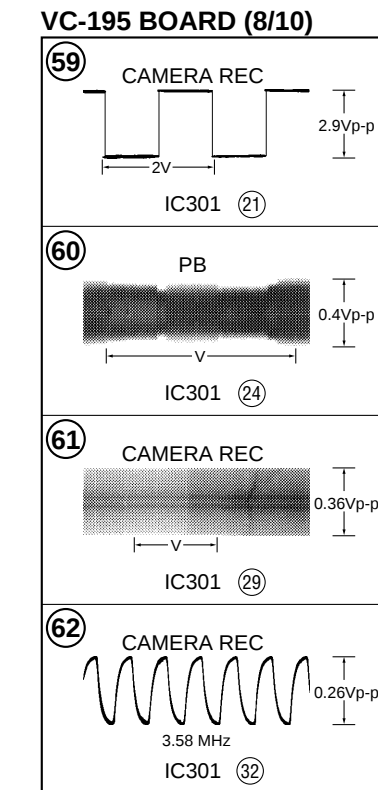
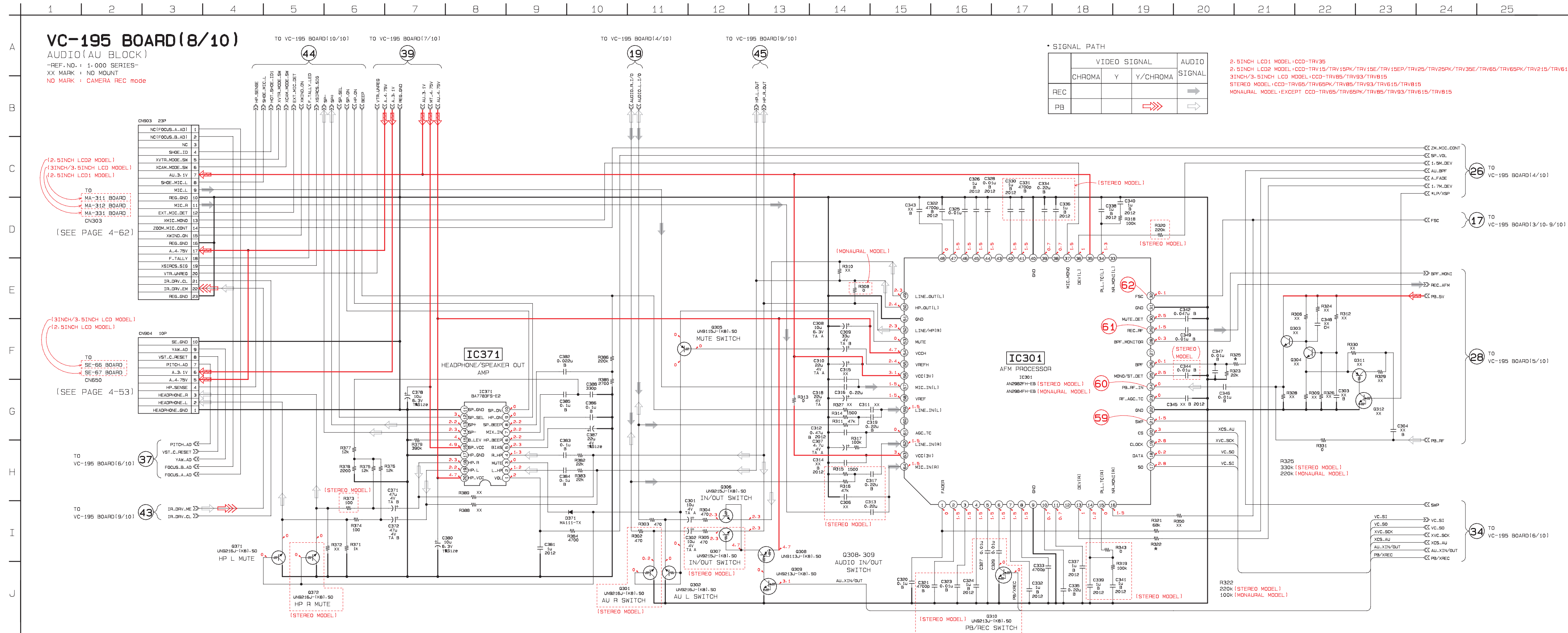


VC-195 BOARD (7/10)
CAMERA REC



TO DD-105 BOARD
CN831
(SEE PAGE 4-121)

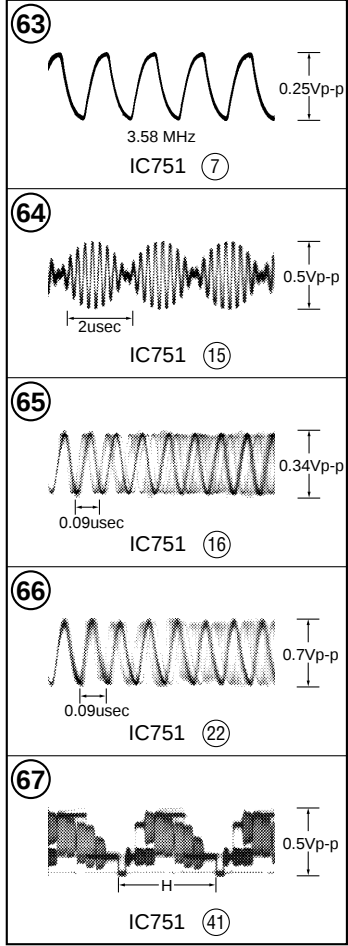
- For schematic diagrams.
- Refer to page 4–11 for Printed Wiring Board



- For schematic diagrams.
- Refer to page 4-11 for Printed Wiring Board.

VC-195 BOARD (9/10)

PB



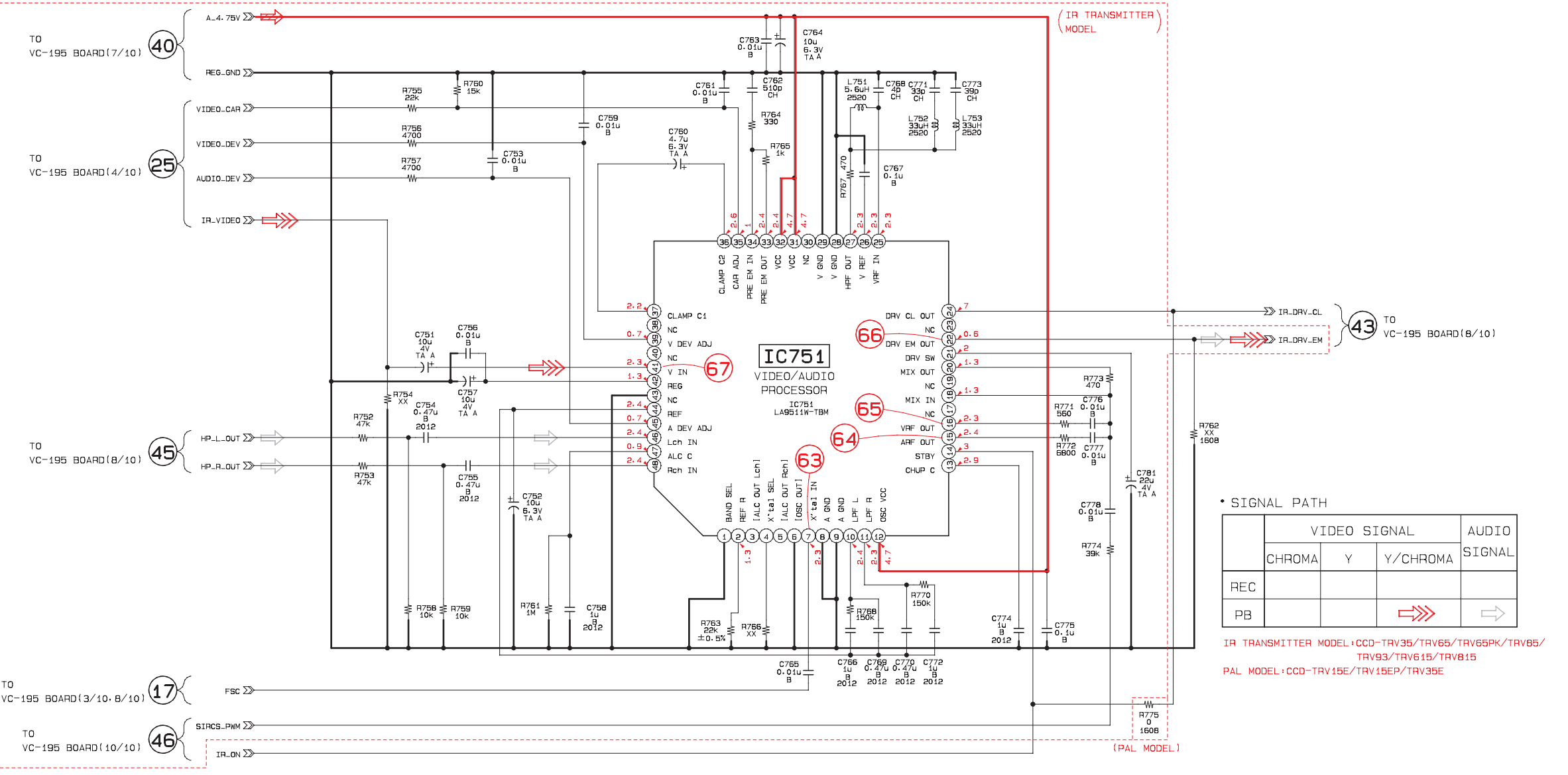
VC-195 BOARD(9/10)

IR TRANSMITTER(IR BLOCK)

-REF. NO. : 1-000 SERIES-

XX MARK : NO MOUNT

NO MARK : CAMERA REC mode(LASER LINK ON)



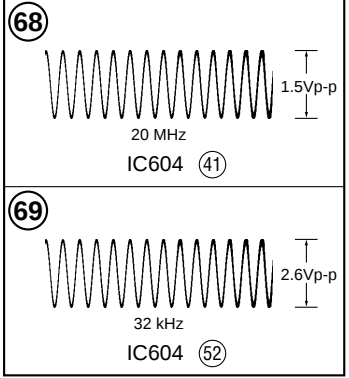
• SIGNAL PATH

	VIDEO SIGNAL		AUDIO SIGNAL
	CHROMA	Y/CHROMA	
REC			
PB			

IR TRANSMITTER MODEL: CCD-TRV35/TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815

PAL MODEL: CCD-TRV15E/TRV15EP/TRV35E

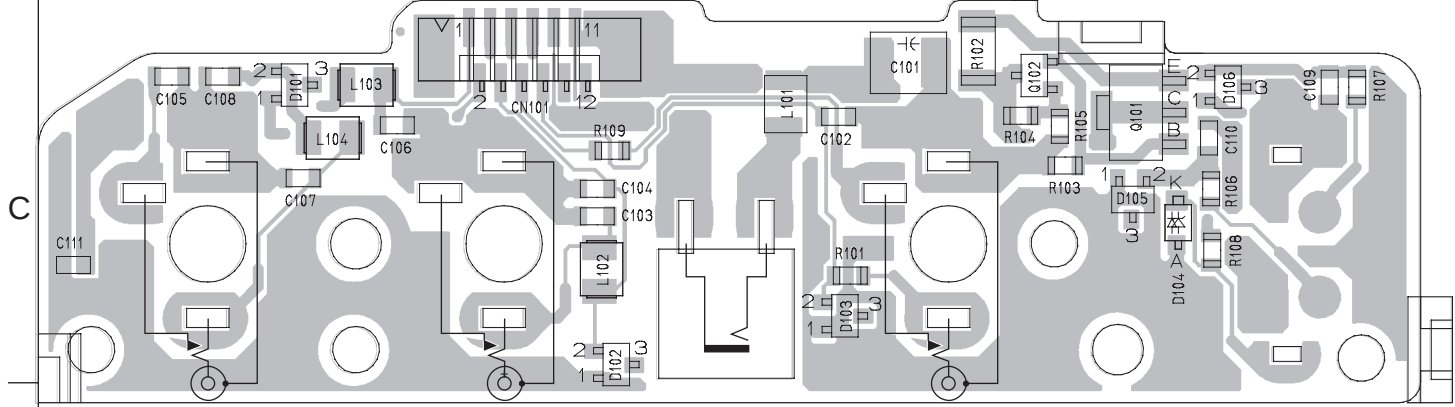
VC-195 BOARD (10/10)



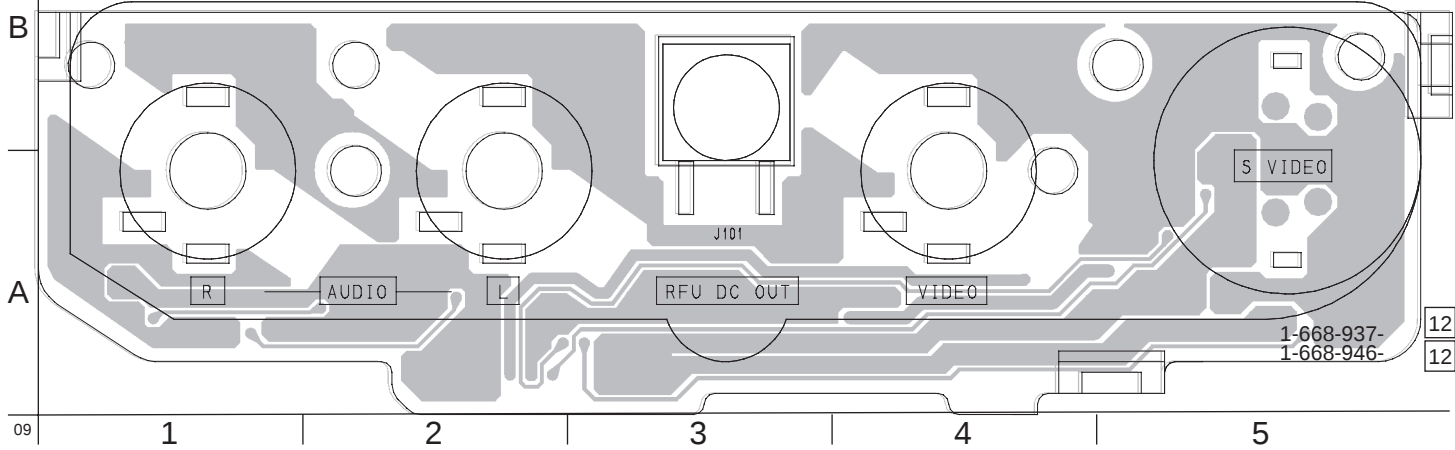
PJ-83/84 (AV IN/OUT) (2.5 INCH LCD, 3 INCH/3.5 INCH LCD MODEL) PRINTED WIRING BOARD

— Ref No. PJ-83 BOARD: 4,000 series, PJ-84 BOARD: 9,000 series —

PJ-84 BOARD (SIDE B)
PJ-83 BOARD (SIDE B)



PJ-84 BOARD (SIDE A)
PJ-83 BOARD (SIDE A)



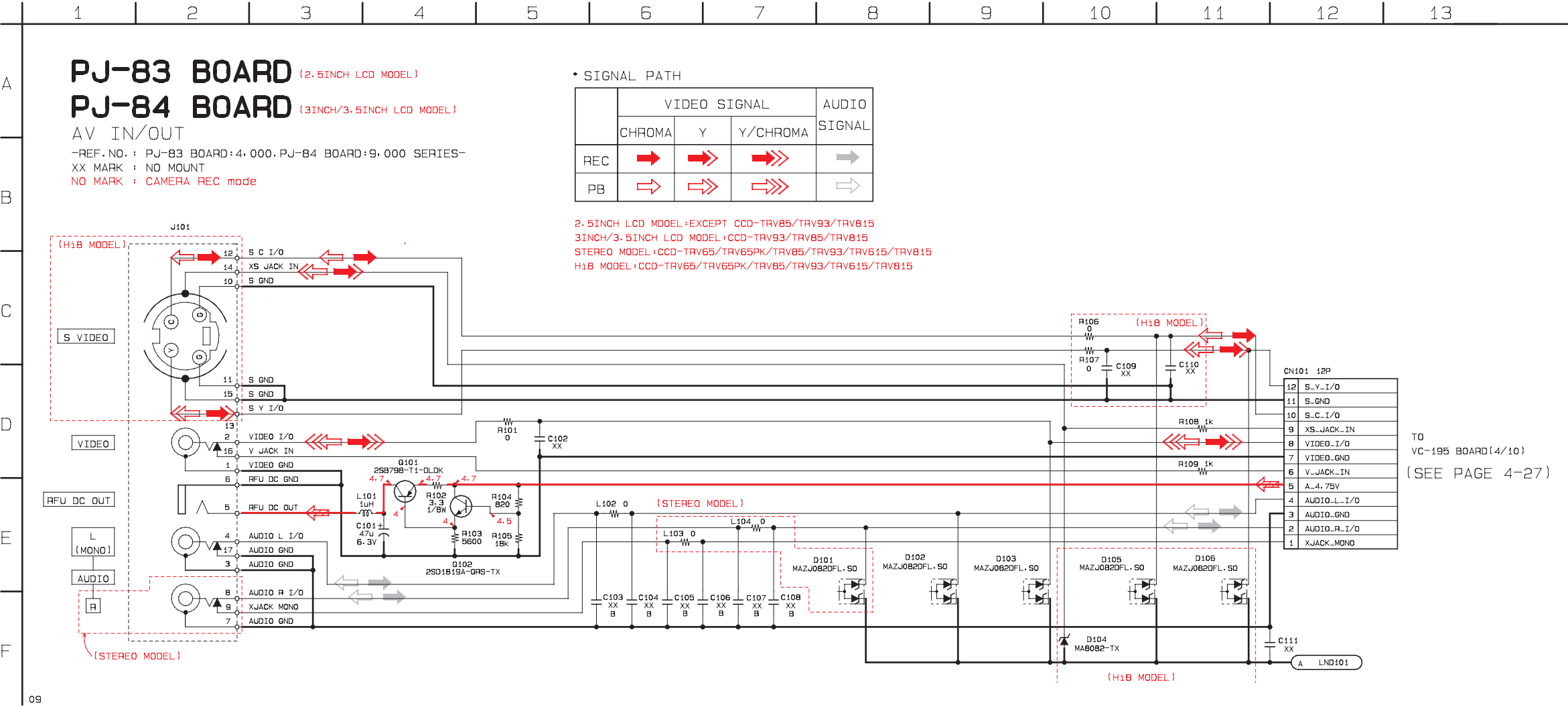
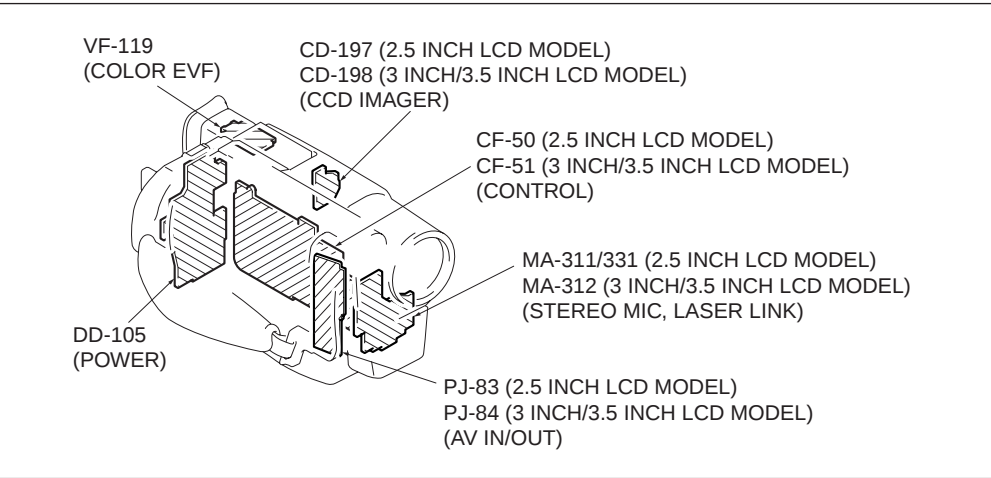
PJ-83
PJ-84 BOARD

C101	C-4
C102	C-4
C103	C-3
C104	C-3
C105	C-1
C106	C-2
C107	C-1
C108	C-5
C109	C-5
C110	C-5
C111	C-1
CN101	C-2
D101	C-1
D102	C-3
D103	C-3
D105	C-5
D106	C-5
D107	C-5
J101	A-3
L101	C-3
L102	C-3
L103	C-2
L104	C-2
Q101	C-5
Q102	C-4
R101	C-4
R102	C-4
R103	C-4
R104	C-4
R105	C-4
R106	C-5
R107	C-5
R108	C-5
R109	C-3

• For Printed Wiring Boards.

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

• Chip diode



• SIGNAL PATH

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

2.5 INCH LCD MODEL: EXCEPT CCD-TRV85/TRV93/TRV815
3 INCH/3.5 INCH LCD MODEL: CCD-TRV93/TRV85/TRV815
STEREO MODEL: CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815
H1B MODEL: CCD-TRV65/TRV65PK/TRV85/TRV93/TRV615/TRV815

T0
VC-195 BOARD(4/10)
(SEE PAGE 4-27)

VL-19 (VIDEO LIGHT) PRINTED WIRING BOARD

— Ref No. VL-19 BOARD: 9,000 series —

VL-19 BOARD

C151 A-4
C152 A-1
C153 A-1

CN151 A-1

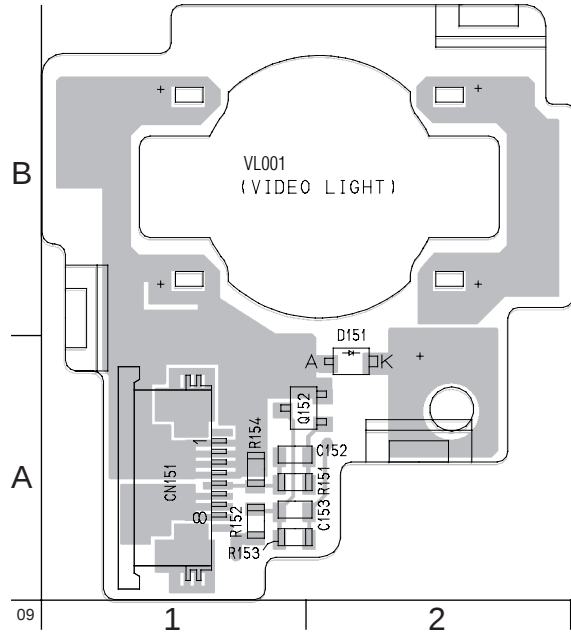
D151 A-2
D152 A-4
D153 A-4

L151 A-4

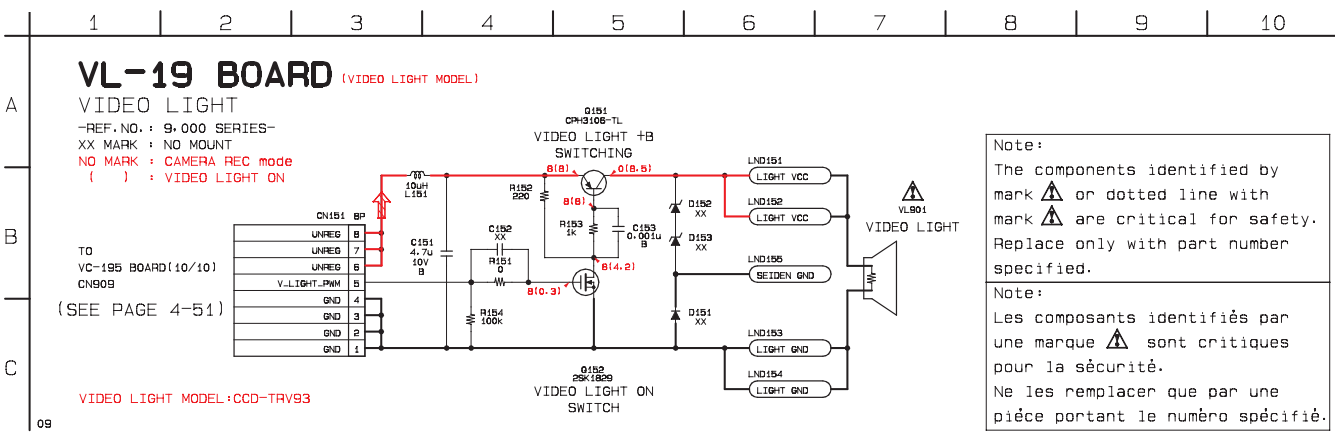
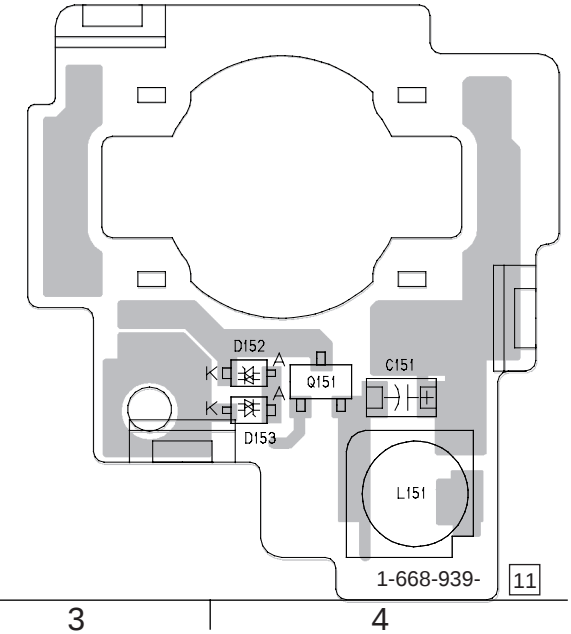
Q151 A-4
Q152 A-1

R151 A-1
R152 A-1
R153 A-1
R154 A-1

VL-19 BOARD (SIDE B)

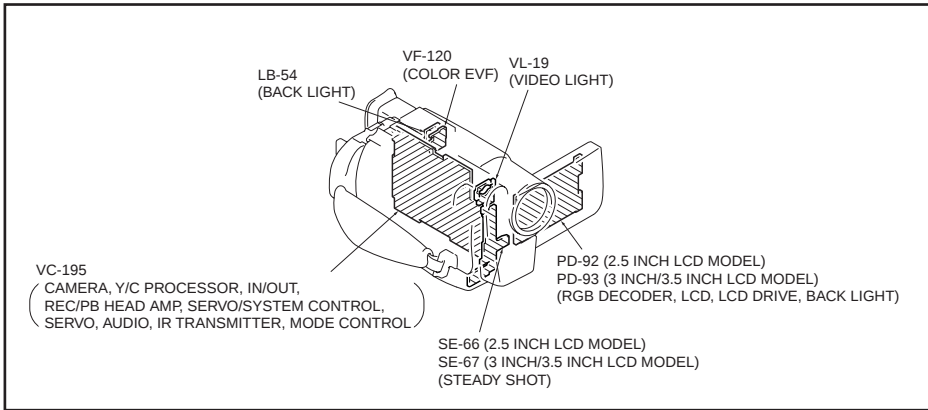


VL-19 BOARD (SIDE A)



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

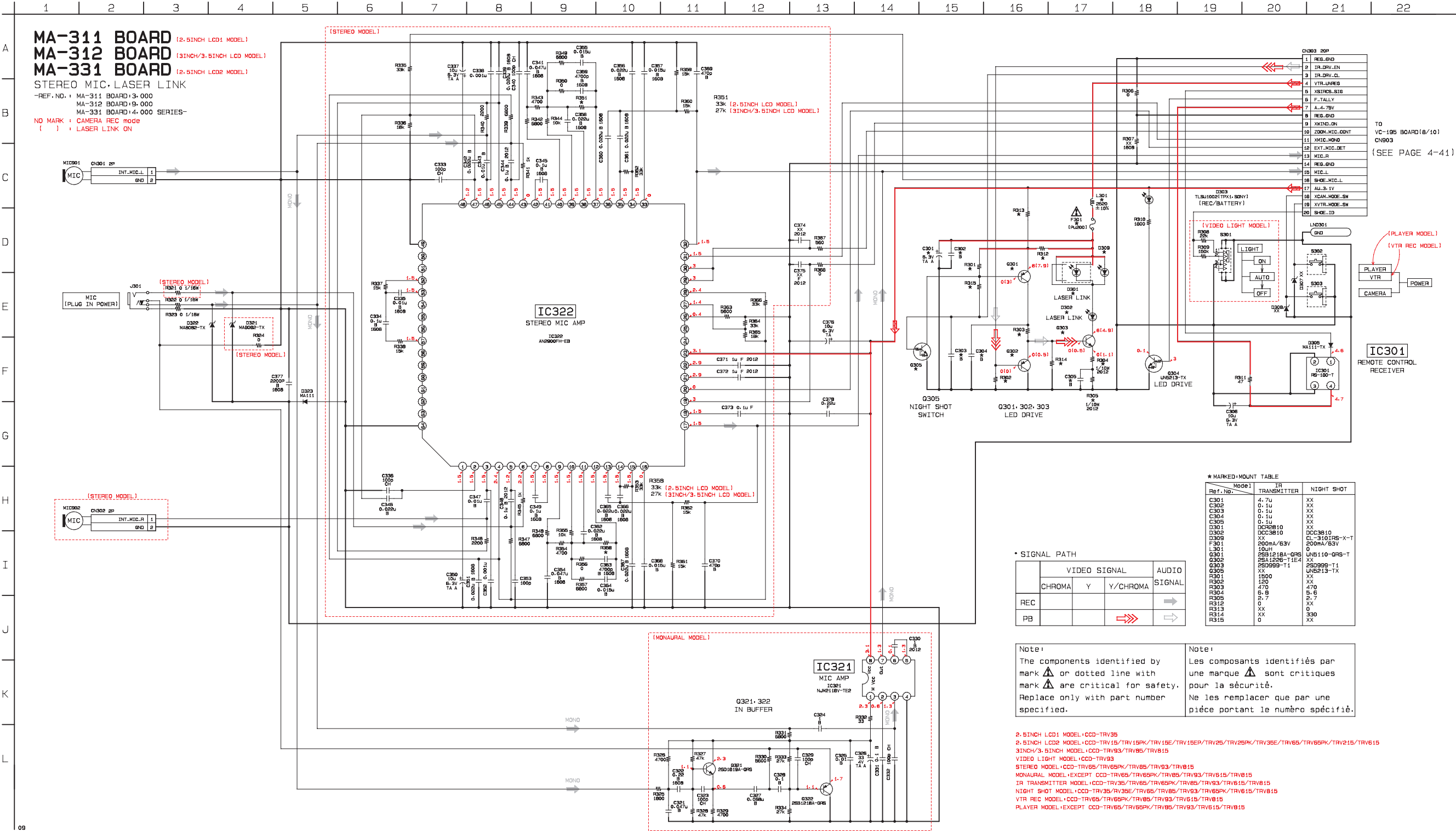
Note:
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



• For Printed Wiring Boards.

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

• Chip transistor



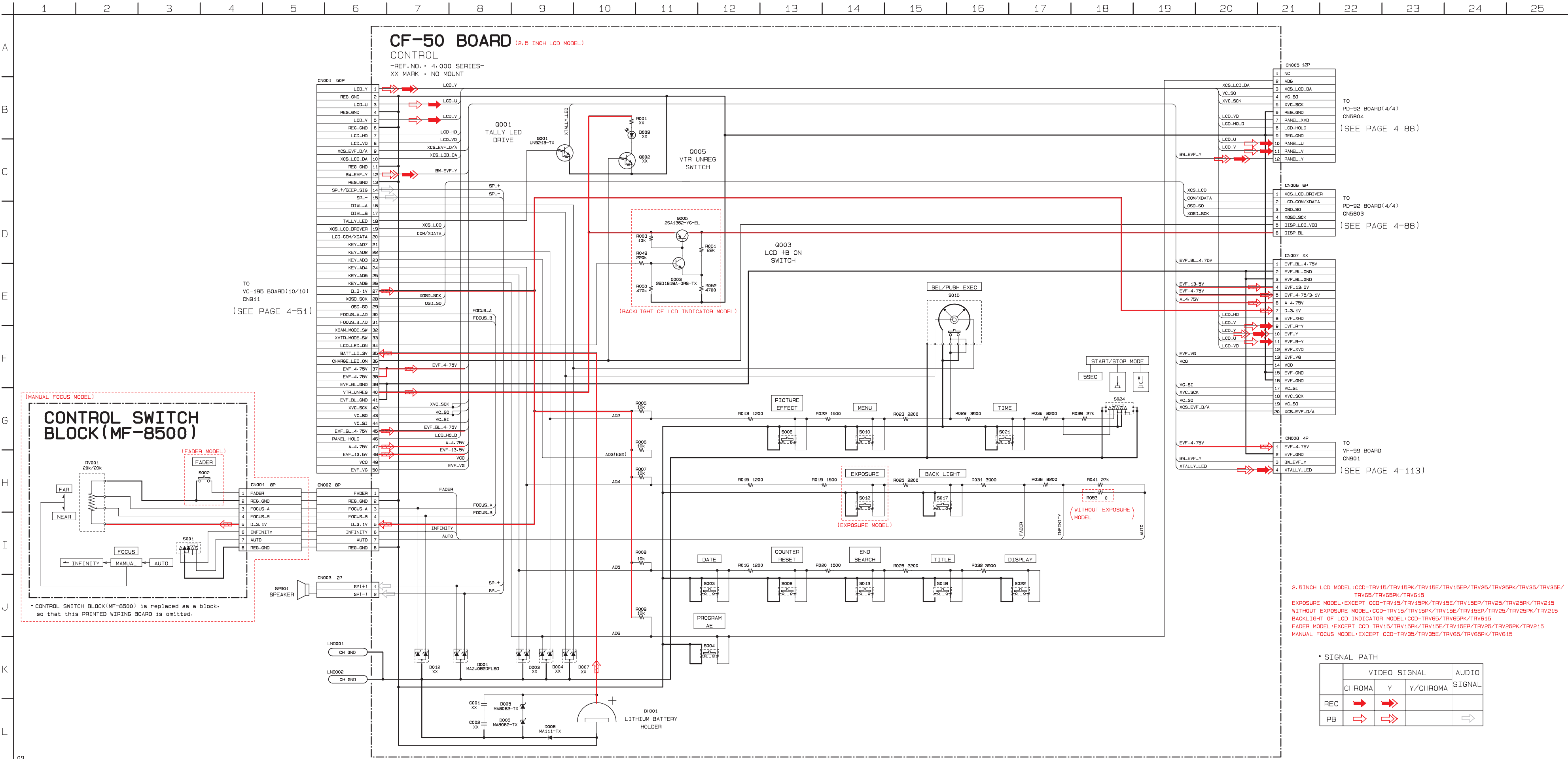
* SIGNAL PATH

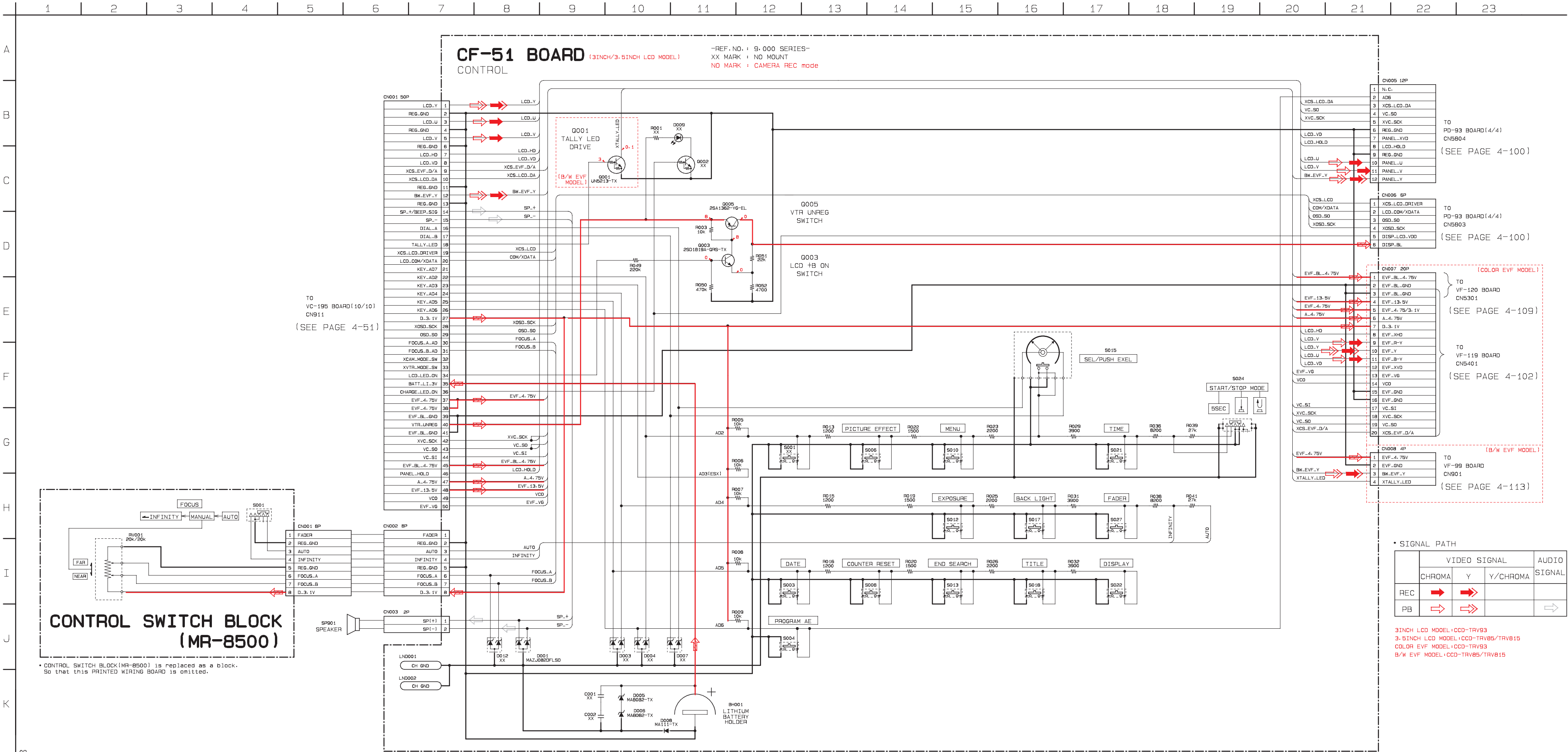
	VIDEO SIGNAL	AUDIO SIGNAL
CHROMA	Y	Y/CHROMA
REC		
PB		

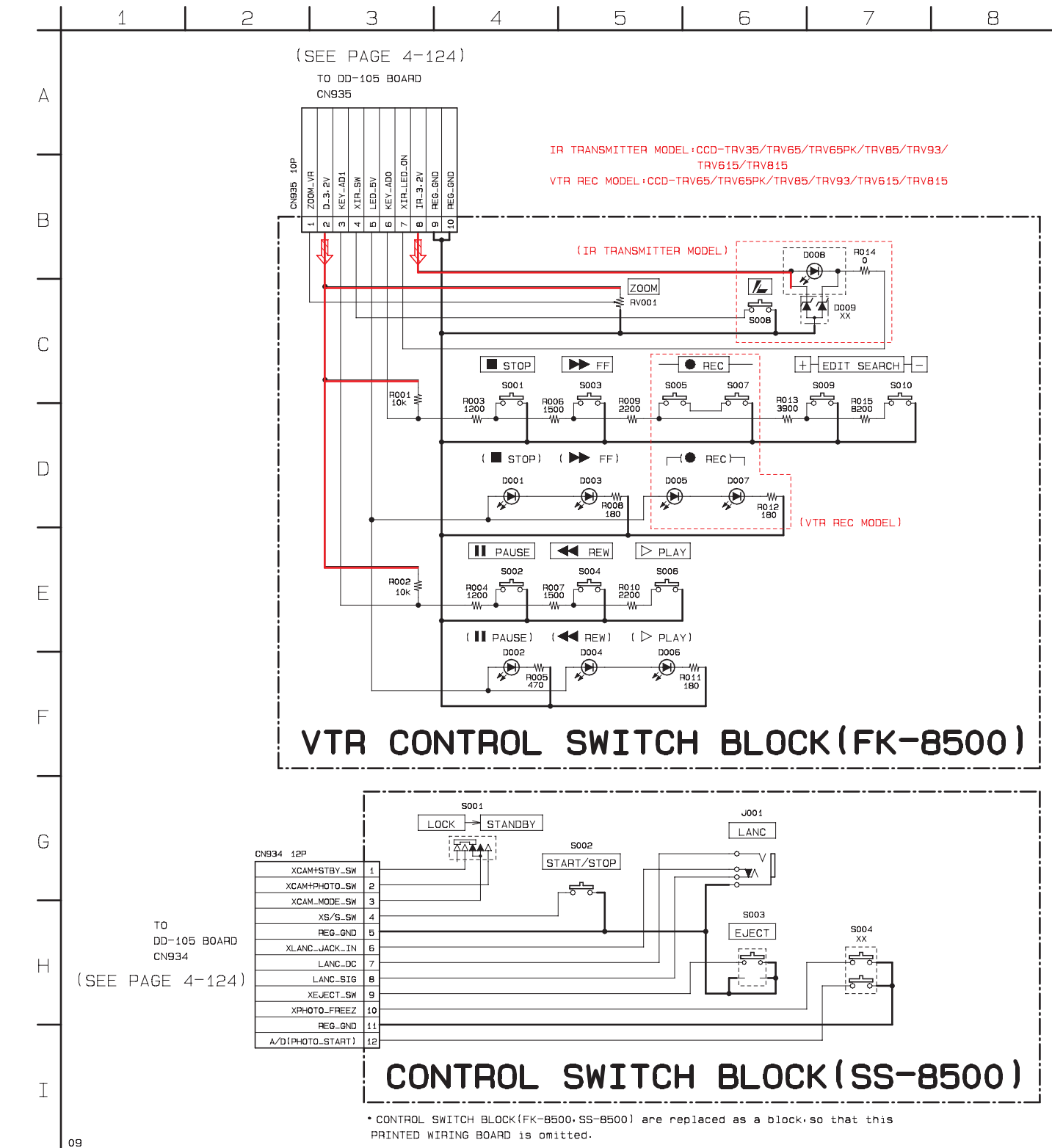
Note:
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

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

2.5 INCH LCD MODEL: CCD-TRV36
2.5 INCH LCD MODEL: CCD-TRV15/TRV15PK/TRV15E/TRV15EP/TRV25/TRV25PK/TRV35E/TRV65/TRV65PK/TRV215/TRV615
3 INCH/3.5 INCH MODEL: CCD-TRV93/TRV93E/TRV93S/TRV93T
VIDEO LIGHT MODEL: CCD-TRV93
STEREO MODEL: CCD-TRV65/TRV65PK/TRV65E/TRV65S/TRV65T
MONAURAL MODEL: EXCEPT: CCD-TRV65/TRV65PK/TRV65E/TRV65S/TRV65T
IR TRANSMITTER MODEL: CCD-TRV35/TRV35E/TRV35S/TRV35T
NIGHT SHOT MODEL: CCD-TRV35/TRV35E/TRV35S/TRV35T
VTR REC MODEL: CCD-TRV65/TRV65PK/TRV65E/TRV65S/TRV65T
PLAYER MODEL: EXCEPT: CCD-TRV65/TRV65PK/TRV65E/TRV65S/TRV65T





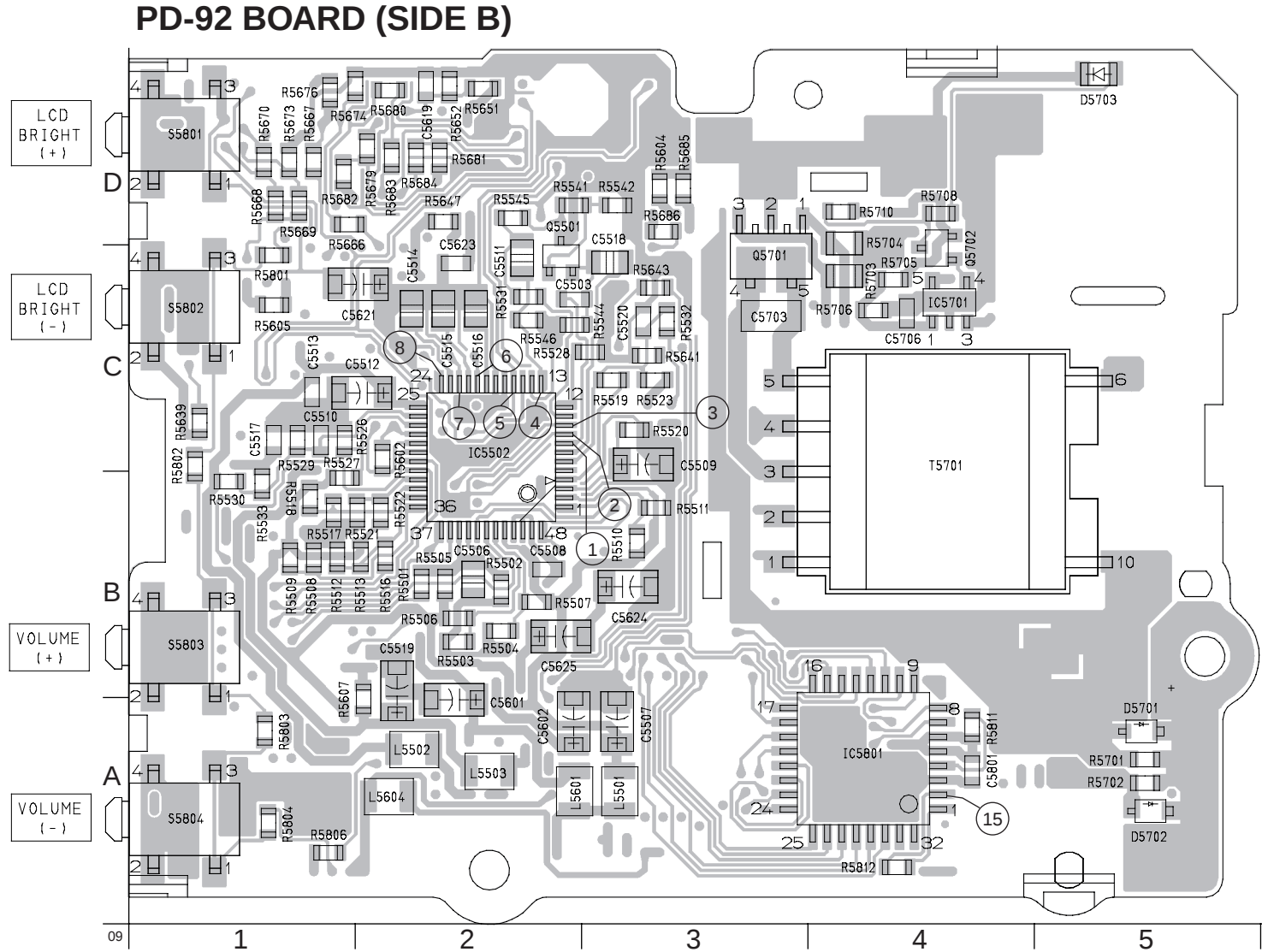


PD-92 BOARD

C5501	B-10	D5604	C-10	R5542	D-3	R5673	D-1
C5502	B-10	D5701	C-5	R5544	C-2	R5674	D-2
C5503	C-2	D5702	C-5	R5546	C-2	R5676	D-1
C5504	C-10	D5703	D-5	R5546	D-2	R5678	D-9
C5505	C-10	D5704	C-7	R5602	D-2	R5679	D-2
C5506	B-2			R5603	D-8	R5680	D-2
C5507	C-3	IC5501	B-10	R5604	D-3	R5681	D-2
C5508	B-2	IC5502	C-2	R5605	C-1	R5682	D-1
C5509	C-3	IC5501	C-9	R5606	C-10	R5683	D-2
C5510	C-1	IC5602	C-8	R5607	A-2	R5684	D-2
C5511	C-2	IC5701	C-4	R5609	C-9	R5685	D-3
C5512	C-1	IC5801	C-4	R5610	B-10	R5686	D-3
C5513	C-1			R5612	C-9	R5688	C-9
C5514	C-2	L5501	C-3	R5614	C-9	R5692	C-9
C5515	C-2	L5502	A-2	R5615	C-9	R5694	B-9
C5516	C-2	L5503	A-2	R5616	B-10	R5695	B-9
C5517	C-1	L5601	A-2	R5617	B-9	R5695	D-10
C5518	C-3	L5603	C-9	R5618	C-9	R5697	C-10
C5519	B-2	L5604	A-2	R5619	B-9	R5698	B-9
C5520	C-3	L5605	C-9	R5620	B-9	R5698	D-9
C5601	A-2	L5701	C-7	R5621	C-9	R5701	C-5
C5602	A-2			R5622	B-8	R5702	C-5
C5603	B-10	Q5501	C-2	R5623	B-8	R5703	C-4
C5604	C-9	Q5601	B-9	R5624	B-9	R5704	C-4
C5605	C-9	Q5602	B-9	R5625	C-10	R5705	C-4
C5607	B-9	Q5603	B-10	R5626	C-9	R5706	C-4
C5608	C-9	Q5604	C-10	R5627	C-10	R5707	C-7
C5609	B-10	Q5605	C-8	R5628	C-10	R5708	D-4
C5610	C-9	Q5606	C-9	R5629	B-9	R5709	D-7
C5611	B-8	Q5607	C-9	R5630	B-9	R5710	D-4
C5612	C-10	Q5608	C-8	R5631	C-9	R5801	C-1
C5613	B-8	Q5609	B-9	R5632	B-9	R5802	C-1
C5614	C-10	Q5701	C-3	R5634	B-9	R5803	A-1
C5615	C-10	Q5702	C-4	R5635	C-10	R5804	A-1
C5616	C-9			R5636	B-10	R5805	C-6
C5618	D-9	R5501	B-2	R5637	C-10	R5806	A-1
C5619	D-2	R5502	B-2	R5638	C-10	R5807	B-7
C5620	D-10	R5504	B-2	R5639	C-1	R5808	B-9
C5622	C-10	R5505	B-2	R5640	C-8	R5809	C-7
C5623	C-2	R5506	B-2	R5641	C-3	R5810	B-9
C5624	B-3	R5507	B-2	R5642	C-10	R5811	C-4
C5625	B-2	R5508	B-1	R5644	C-9	R5812	C-4
C5633	B-9	R5508	B-2	R5645	C-10		
C5634	B-9	R5509	B-1	R5646	C-10	S5801	D-1
C5701	C-8	R5510	B-3	R5647	D-2	S5802	C-1
C5702	C-8	R5511	B-3	R5648	C-3	S5803	B-1
C5703	C-3	R5512	B-1	R5648	D-10	S5804	A-1
C5704	C-7	R5513	B-2	R5651	D-2		
C5705	C-6	R5516	B-2	R5652	D-2	T5701	C-4
C5706	C-4	R5517	B-1	R5653	D-9		
C5801	C-4	R5518	B-1	R5654	D-9		
C5821	C-1	R5519	C-3	R5657	C-9		
		R5520	C-3	R5658	D-9		
		R5521	B-2	R5659	D-10		
		R5522	B-2	R5660	D-10		
		R5523	C-3	R5661	D-10		
		R5526	C-1	R5663	C-9		
		R5527	B-1	R5664	D-10		
		R5528	C-3	R5665	D-1		
		R5529	C-1	R5665	D-10		
		R5530	B-1	R5667	D-1		
		R5531	C-2	R5668	D-1		
		R5532	C-3	R5669	D-1		
		R5533	B-1	R5670	D-1		
		R5537	D-8	R5671	D-9		
		R5541	D-2	R5672	D-9		
CN5501	D-9						
CN5601	D-10						
CN5701	D-6						
CN5801	C-8						
CN5802	C-7						
CN5803	C-8						
CN5804	C-10						
CN5805	C-6						
D5601	B-10						
D5602	B-9						
D5603	B-10						
D5605	B-9						

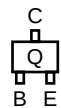
PD-92 (RGB DECODER, LCD DRIVE, BACK LIGHT, LCD (2.5 INCH LCD MODEL)) PRINTED WIRING BOARD

- Ref No. PD-92 BOARD: 10,000 series -

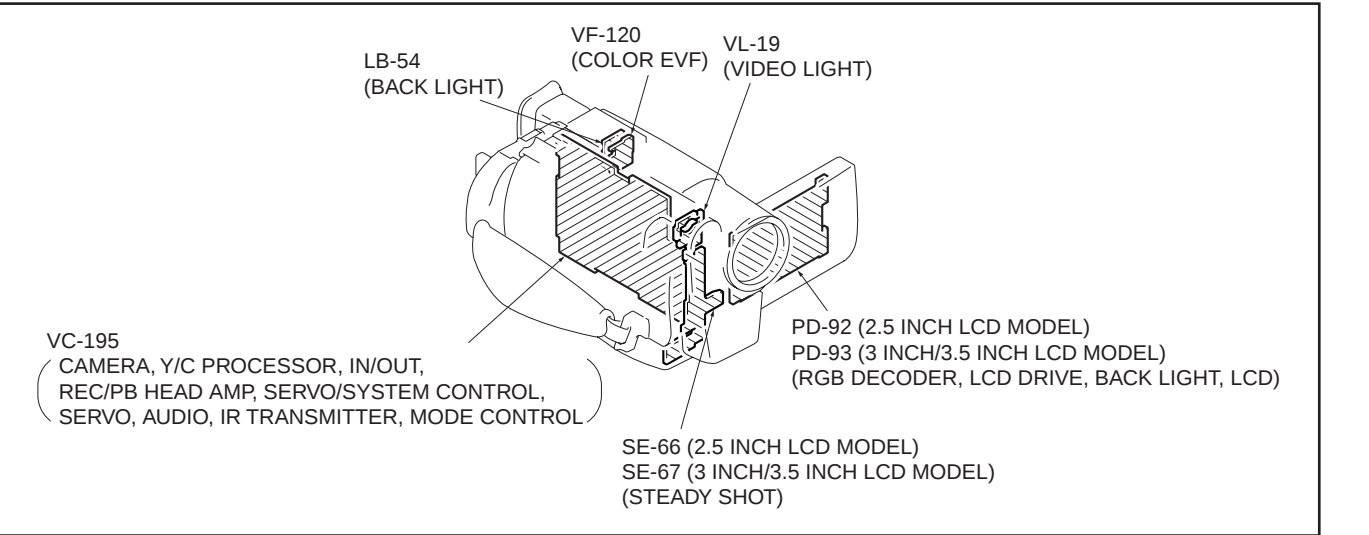
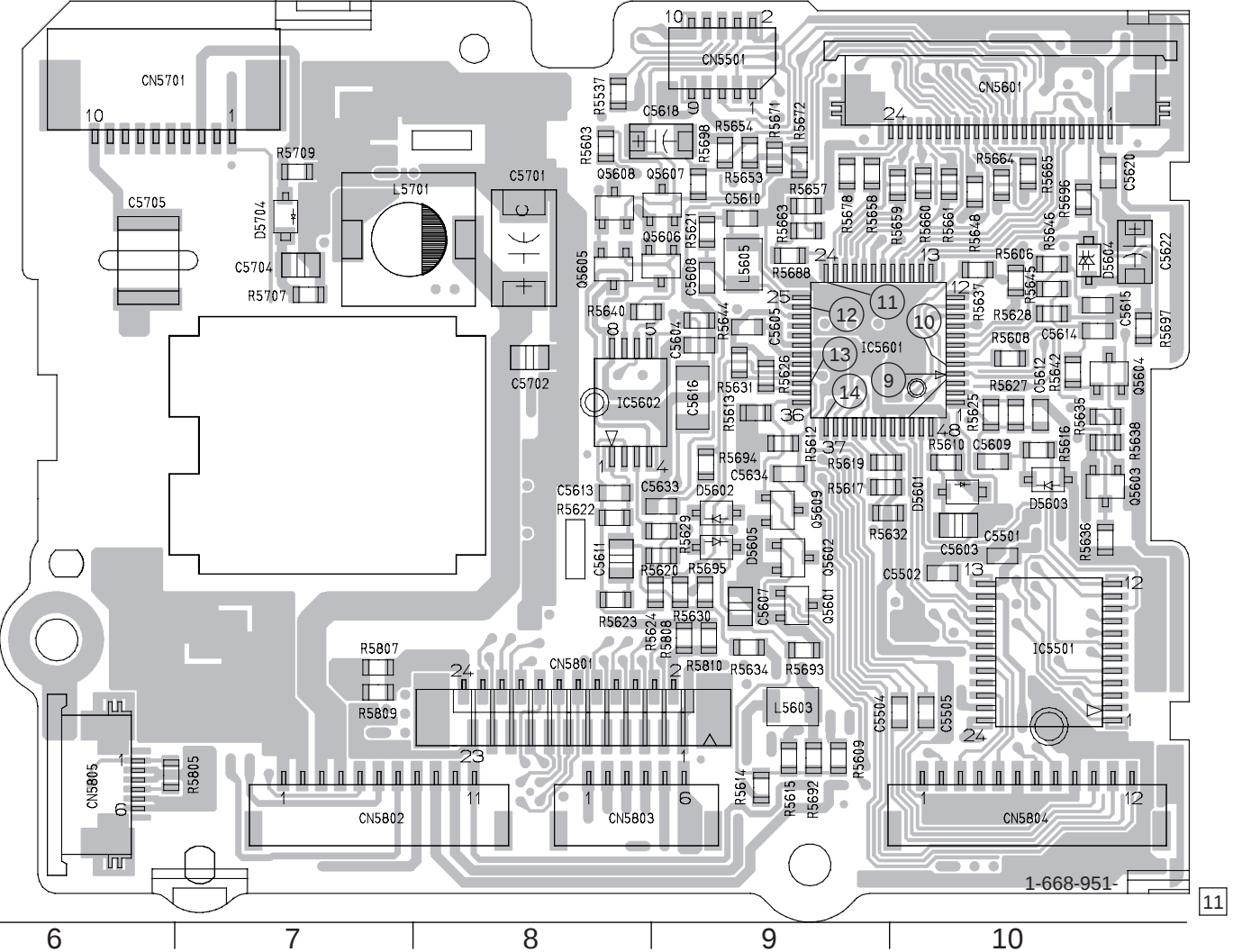


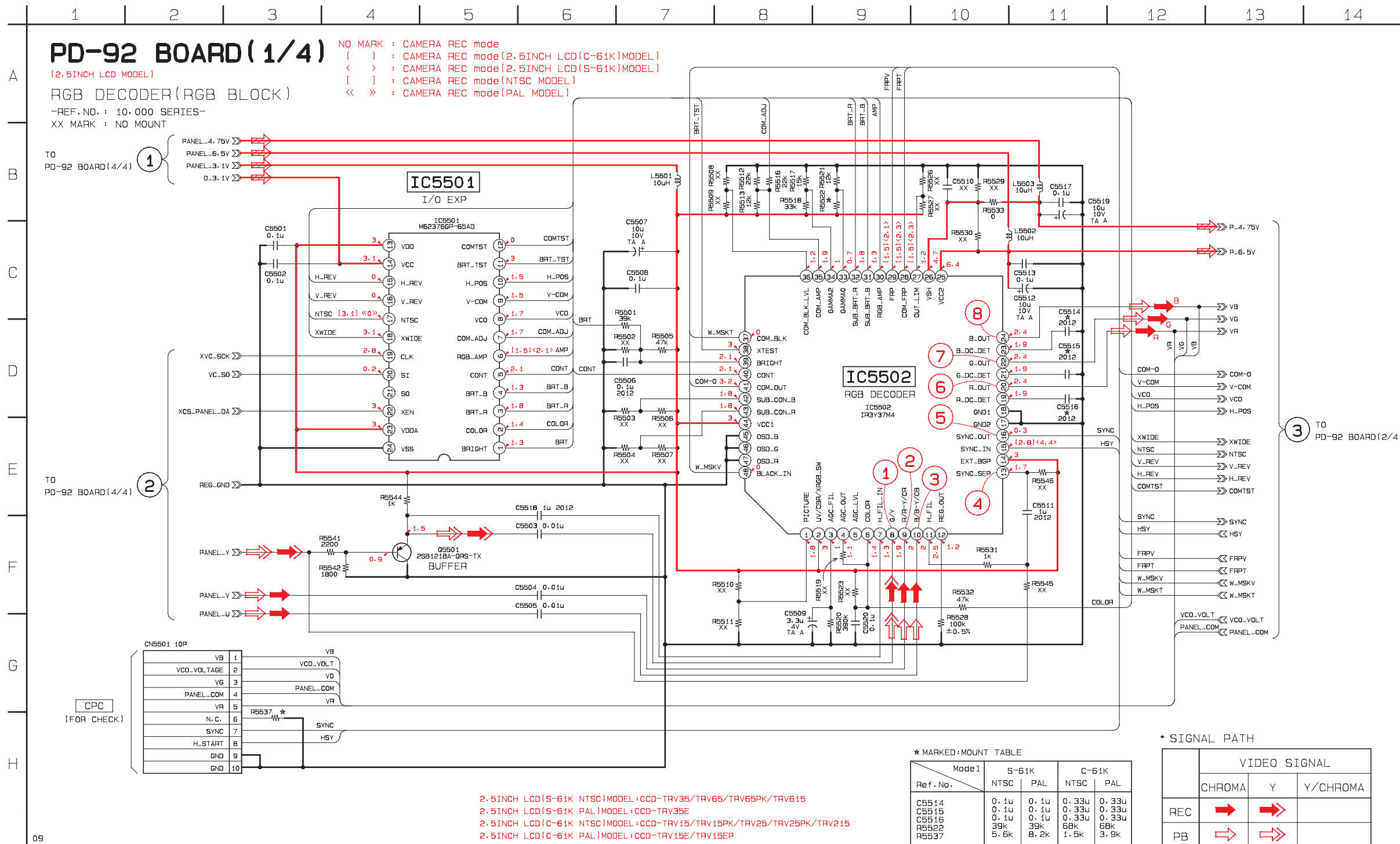
- For Printed Wiring Boards.
 - This board is four-layer print board. However, the patterns of layers 2 to 3 have not been included in the diagram.
- There are few cases that the part isn't mounted in this model is printed on this diagram.

- Chip transistor

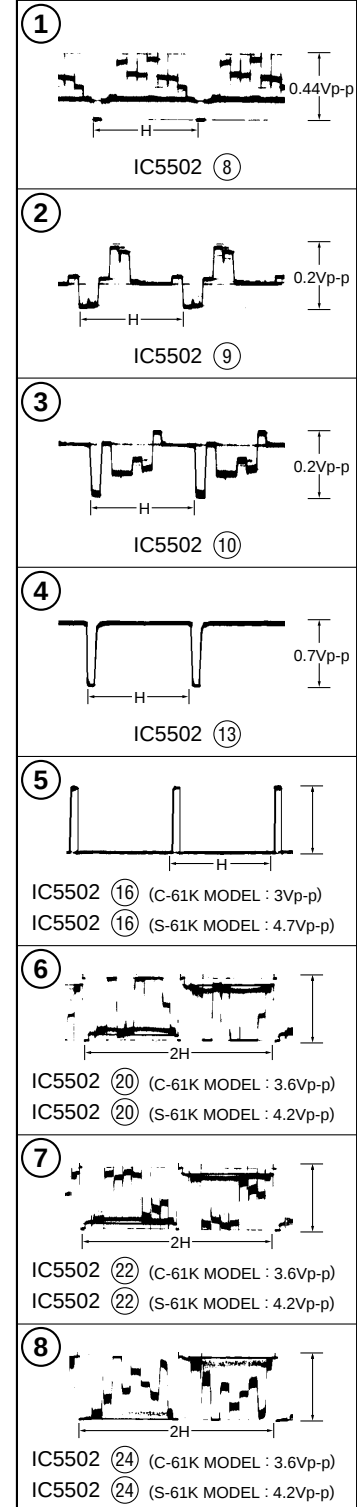


PD-92 BOARD (SIDE A)





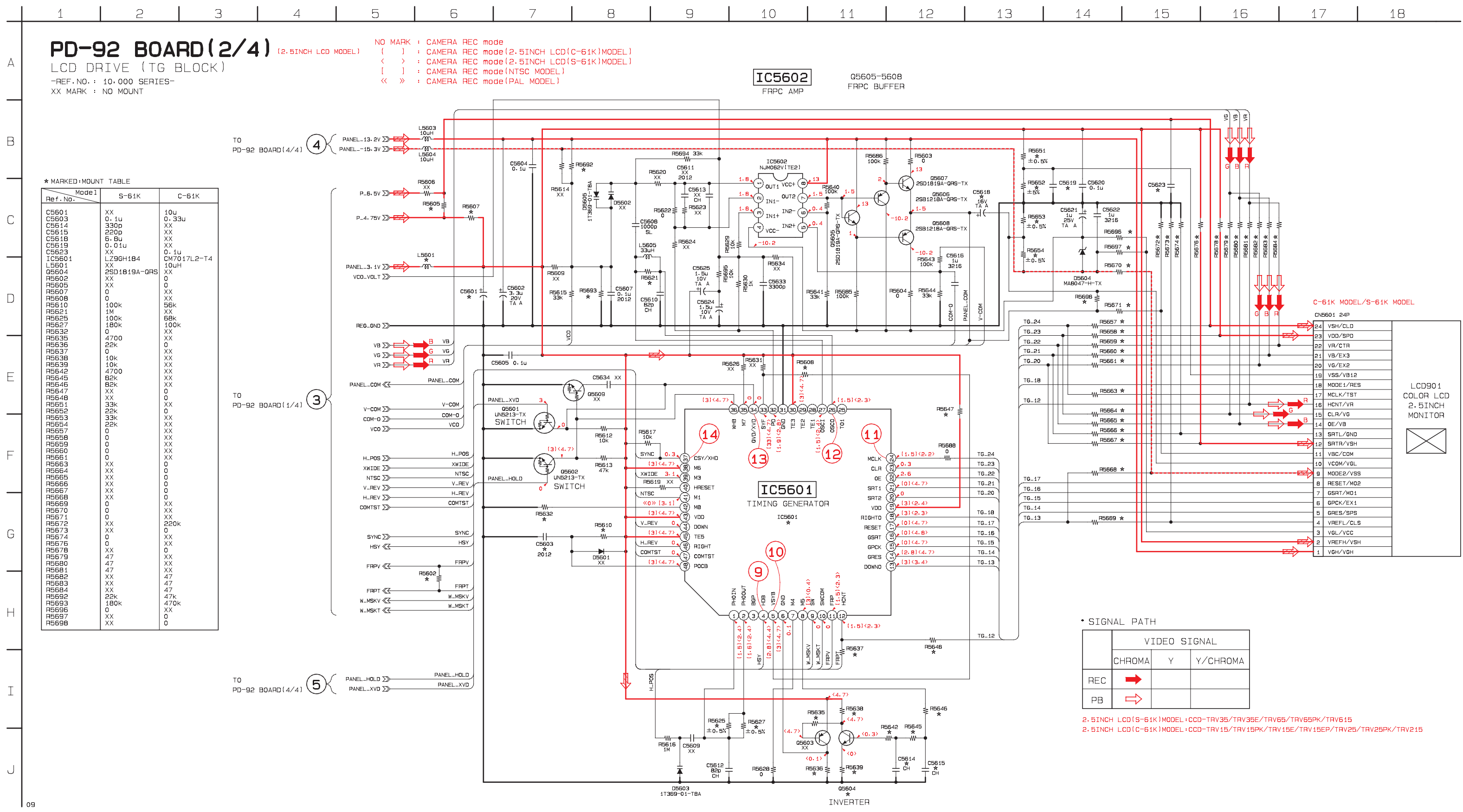
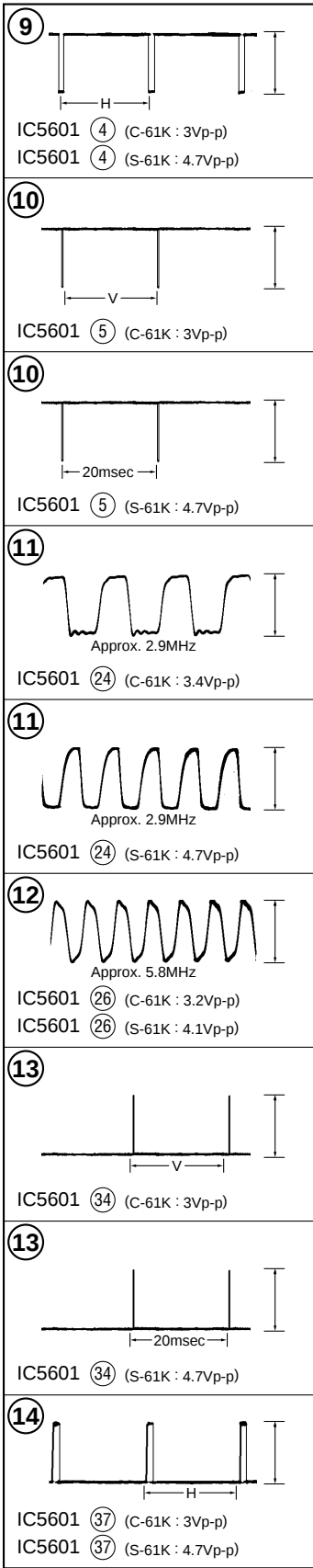
PD-92 BOARD (1/4)
CAMERA REC



CCD-TRV15/TRV15E/TRV15EP/TRV15PK/TRV25/TRV25PK/TRV35/TRV35E/
TRV65/TRV65PK/TRV85/TRV93/TRV215/TRV615/TRV815

- **For schematic diagrams.**
- Refer to page 4–79 for Printed Wiring Board.

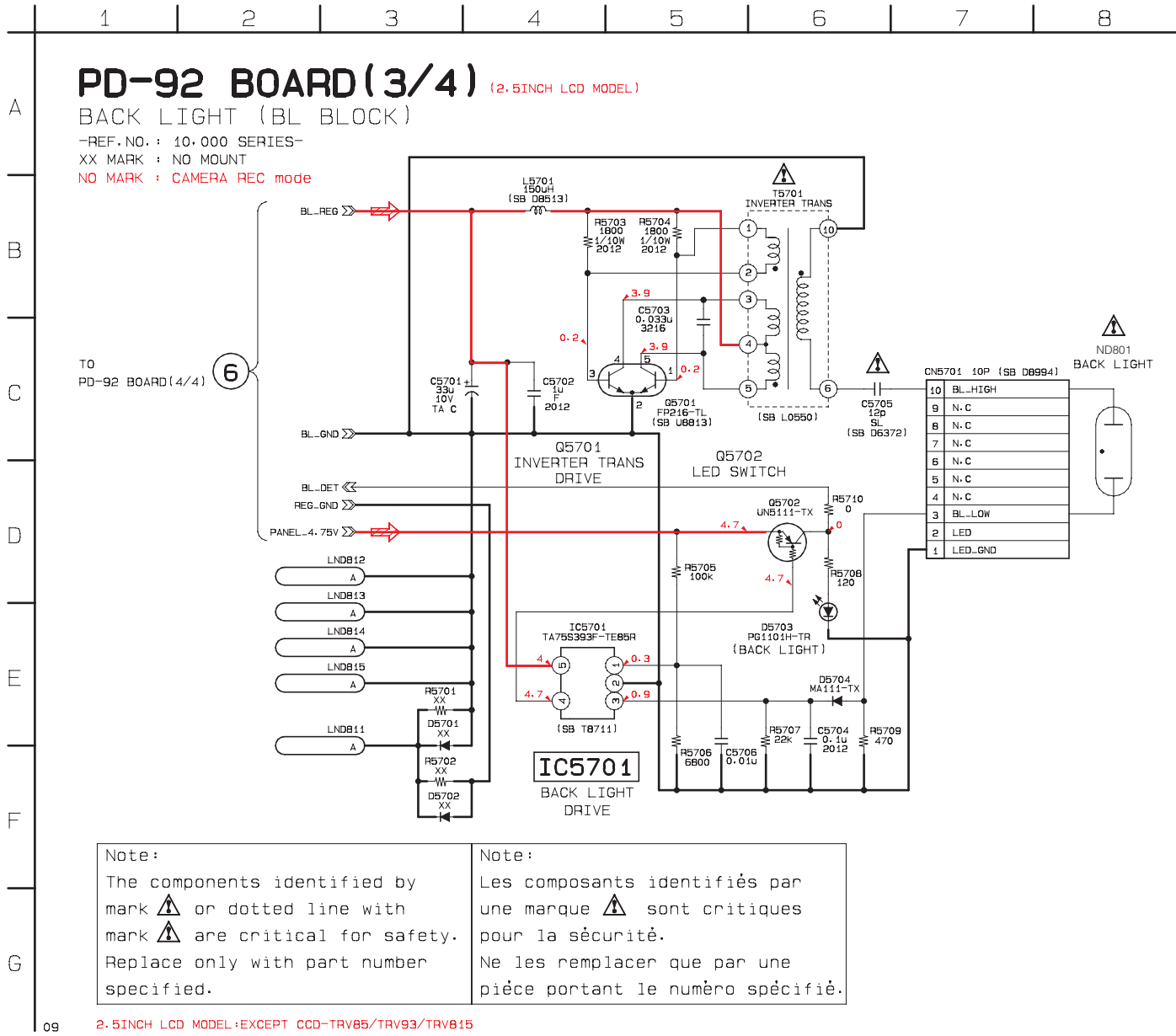
PD-92 BOARD (2/4)
CAMERA REC



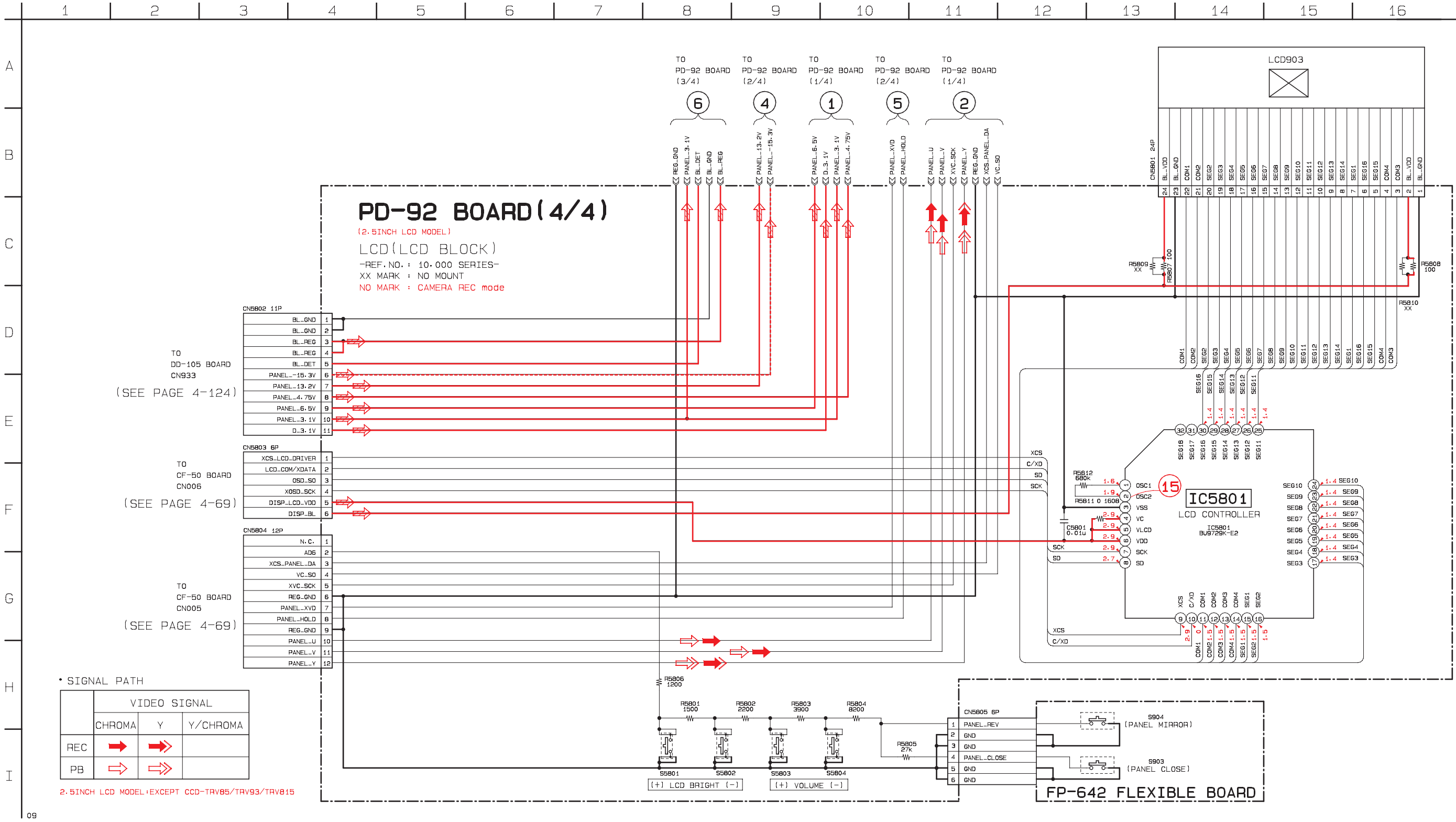
SIGNAL PATH			
	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC			
PB			

2.5INCH LCD(S-61K)MODEL:CCD-TRV35/TRV35E/TRV65/TRV65PK/TRV615
2.5INCH LCD(C-61K)MODEL:CCD-TRV15/TRV15PK/TRV15E/TRV15EP/TRV25/TRV25PK/TRV215

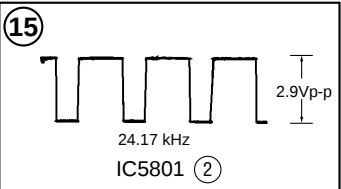
- For schematic diagrams.
- Refer to page 4–79 for Printed Wiring Board.



- For schematic diagrams.
- Refer to page 4–79 for Printed Wiring Board.



PD-92 BOARD (4/4)
CAMERA REC



BACK LIGHT, LCD
PD-92 (3/4, 4/4) (2.5 INCH LCD MODEL)

1
IC4502 ⑧
0.44Vp-p
H

2
IC4502 ⑨
0.2Vp-p
H

3
IC4502 ⑩
0.2Vp-p
H

4
IC4502 ⑬
0.7Vp-p
H

5
IC4502 ⑯ (3.5 INCH LCD : 3Vp-p)
IC4502 ⑯ (3 INCH LCD : 4.7Vp-p)
H

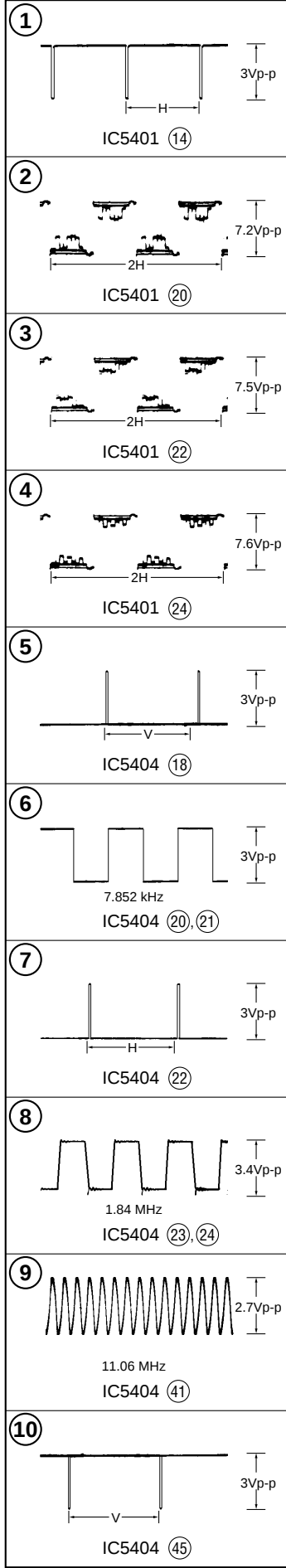
6
IC4502 ⑳ (3.5 INCH LCD : 3.3Vp-p)
IC4502 ⑳ (3 INCH LCD : 2.2Vp-p)
2H

7
IC4502 ㉒ (3.5 INCH LCD : 3.3Vp-p)
IC4502 ㉒ (3 INCH LCD : 2.3Vp-p)
2H

8
IC4502 ㉔ (3.5 INCH LCD : 3.3Vp-p)
IC4502 ㉔ (3 INCH LCD : 2.3Vp-p)
2H

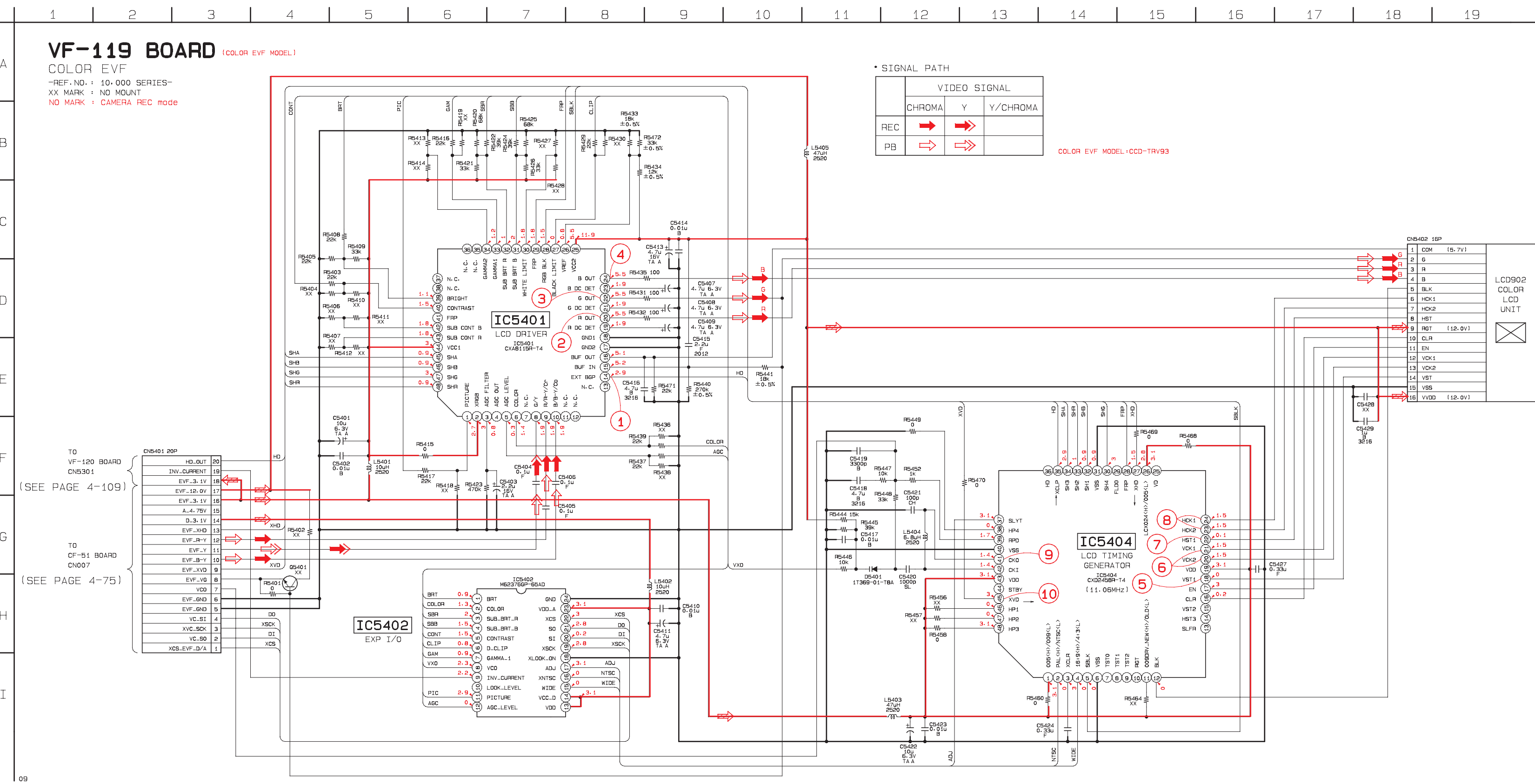


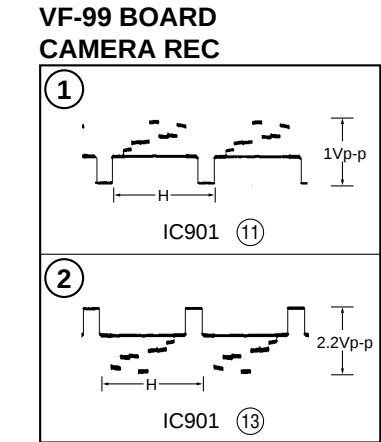
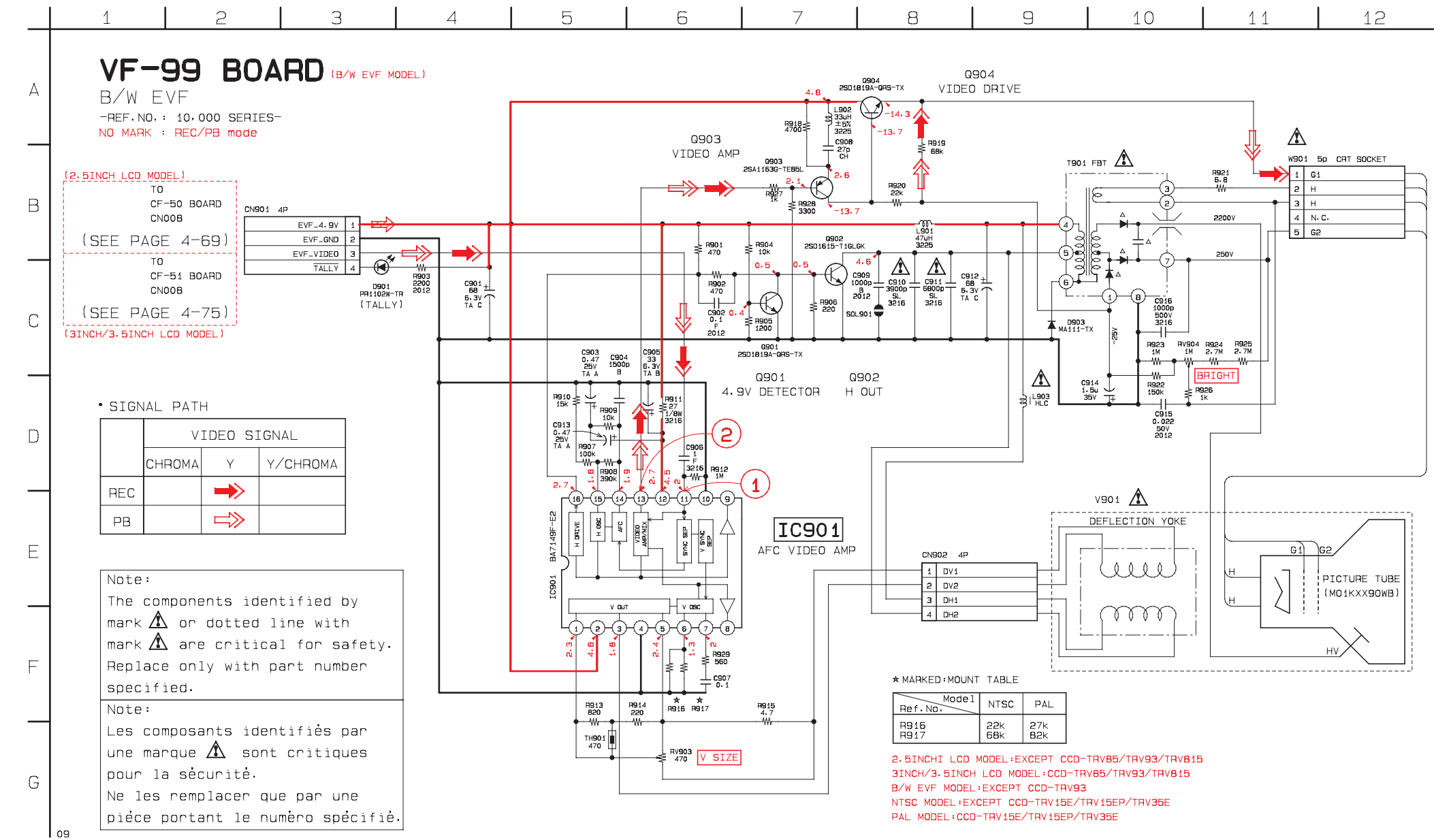
VF-119 BOARD
CAMERA REC



VF-119 BOARD (COLOR EVF MODEL)

COLOR EVF
-REF. NO. : 10-000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC mode





DD-105 BOARD

POWER

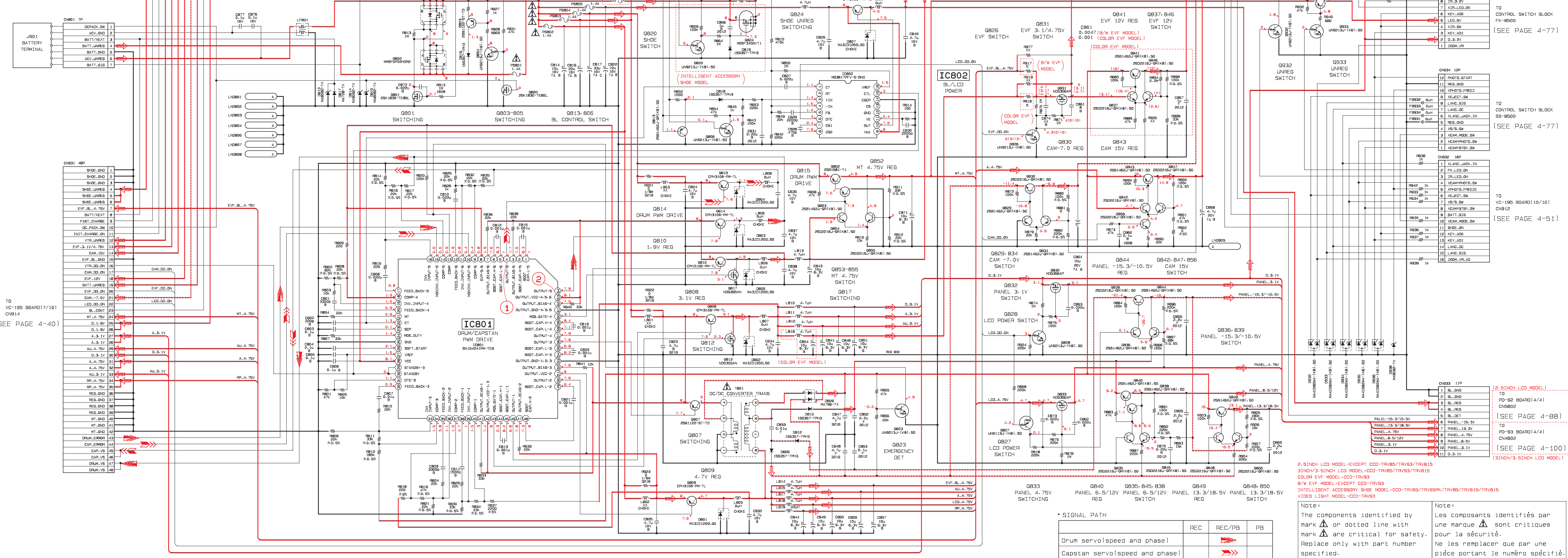
-REF. NO. : 2-000 SERIES-

XX MARK : NO MOUNT

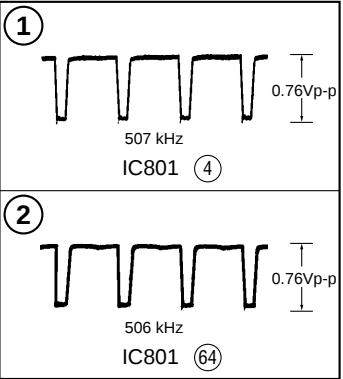
NO MARK : CAMERA REC mode(LCD ON)

() : CAMERA REC mode(COLOR EVF ON)

< > : CAMERA REC mode(B/W EVF ON)



DD-105 BOARD CAMERA REC



TO CONTROL SWITCH BLOCK
FK-B500
(SEE PAGE 4-77)

TO CONTROL SWITCH BLOCK
SS-B500
(SEE PAGE 4-77)

TO VC-195 BOARD(10/10)
CN912
(SEE PAGE 4-51)

(2.5INCH LCD MODEL)
TO
PD-92 BOARD(4/4)
CN802
(SEE PAGE 4-88)
TO
PD-93 BOARD(4/4)
CN4002
(SEE PAGE 4-100)
(3INCH/3.5INCH LCD MODEL)

2.5INCH LCD MODEL(EXCEPT CCD-TRV65/TRV93/TRV615
3INCH/3.5INCH LCD MODEL(CCD-TRV65/TRV93/TRV615
COLOR EVF MODEL(CCD-TRV93
B/W EVF MODEL(EXCEPT CCD-TRV93
INTELLIGENT ACCESSORY SHOE MODEL(CCD-TRV65/TRV65PK/TRV65/TRV615
VIDEO LIGHT MODEL(CCD-TRV93

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

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

SIGNAL PATH

	REC	REC/PB	PB
Drum servo(speed and phase)			
Capstan servo(speed and phase)			