

CCD-TR311/TR311E/TR411E/TR412E/TR511E/ TR512E/TR640E/TR730E/TR840E/TR845E RMT-708/717

SERVICE MANUAL

Self Diagnostics
Supported model



Photo : CCD-TR840E
: RMT-708

Handycam

Video 8 XR
video Hi8 XR

B MECHANISM

AEP Model

CCD-TR411E/TR412E/TR511E/TR640E/TR840E/
TR845E

UK Model

CCD-TR411E/TR511E/TR640E/TR840E

East European Model

North European Model

Russian Model

CCD-TR411E/TR412E/TR511E/TR640E/TR840E

E Model

CCD-TR311/TR311E/TR511E/TR512E/TR730E

Hong Kong Model

CCD-TR311E/TR511E

Australian Model

CCD-TR311E/TR511E/TR512E/TR840E

Tourist Model

CCD-TR311/TR311E

Chinese Model

CCD-TR311E/TR511E/TR512E

SPECIFICATIONS

Video camera recorder System

Video recording system
2 Rotary heads
Helical scanning FM system
Audio recording system
Rotary heads, FM system
Video signal
CCD-TR311 : NTSC color, EIA standards
CCD-TR311E/TR411E/TR511E/
TR512E/TR640E/TR730E/TR840E/
TR845E : PAL color, EIA standards
Usable cassette
8mm video format cassette
CCD-TR311/TR311E/TR411E/TR412E/
TR511E/TR512E/TR640E/TR730E :
standard 8
CCD-TR840E/TR845E :
Hi8 or standard 8
Recording / Playback time
(using 90 min. cassette)
SP mode: 1 hour and 30 minutes
LP mode: 3 hours
Fastforward/rewind time
(using 90 min. cassette)
Approx. 5 min.
Image device
CCD (Charge Coupled Device)
Viewfinder
Electronic viewfinder
CCD-TR311/TR311E/TR411E/TR412E/
TR511E/TR640E/TR840E/TR845E :
Monochrome
CCD-TR512E/TR730E :
Color 113,578 (521 x 218)

Lens
Combined power zoom lens
Filter diameter 1 7/16 in. (37 mm)
CCD-TR411E (AEP, UK) :
16 x (Optical), 32 x (Digital)
CCD-TR412E (AEP) :
16 x (Optical), 64 x (Digital)
CCD-TR311/TR311E :
16 x (Optical), 100 x (Digital)
CCD-TR411E (EE, NE, RU) :
16 x (Optical), 160 x (Digital)
CCD-TR412E (EE, NE, RU) :
16 x (Optical), 200 x (Digital)
CCD-TR511E (AEP, UK)/TR640E
(AEP, UK)/TR840E (AEP, UK)/
TR845E : 18 x (Optical), 72 x (Digital)
CCD-TR511E (EE, NE, RU, E, HK,
AUS, CN)/TR512E/TR640E (EE, NE,
RU)/TR730E/TR840E (EE, NE, RU,
AUS) : 18 x (Optical), 220 x (Digital)
Focal distance
CCD-TR311/TR311E/TR411E/
TR412E :
3/16 - 2 5/8 in. (4.1 - 65.6 mm)
CCD-TR511E/TR512E/TR640E/
TR730E/TR840E/TR845E :
3/16 - 8 in. (4.1 - 73.8 mm)
When converted to a 35 mm still
camera
CCD-TR311/TR311E/TR411E/
TR412E :
1 9/16 - 24 7/8 in. (39.4 - 630 mm)
CCD-TR511E/TR512E :
1 9/16 - 28 in. (39.4 - 709 mm)
CCD-TR640E/TR730E/TR840E/
TR845E :
1 7/8 - 33 1/2 in. (47.2 - 850 mm)

Color temperature
Auto
Minimum illumination*
CCD-TR311/TR311E/TR411E/TR412E :
0.4 lux at F1.4 (Visible minimum low
light 0.2 lux)
CCD-TR511E/TR512E :
0.4 lux at F 1.4
CCD-TR640E/TR730E/TR840E/
TR845E : 0.7 lux at F 1.4
CCD-TR511E/TR512E/TR640E/
TR730E/TR840E/TR845E :
0 lux (in NightShot mode)**
* Minimum illumination
expresses the light level a camcorder
requires to produce a picture. Visible
minimum low light expresses the light
level to produce a visible signal.
**Object invisible for the dark can be
shot with infrared lighting.
Illumination range
CCD-TR311/TR311E/TR411E/
TR412E/TR511E/TR512E :
0.4 lux to 100,000 lux
CCD-TR640E/TR730E/TR840E/
TR845E : 0.7 lux to 100,000 lux
Recommended illumination
More than 100 lux

Input and output connectors
S video input/output
(CCD-TR840E/TR845E only)
4-pin mini DIN
Luminance signal :
1 Vp-p, 75 ohms, unbalanced
CCD-TR311 :
Chrominance signal :
0.286 Vp-p, 75 ohms, unbalanced
CCD-TR311E/TR411E/TR412E/
TR511E/TR512E/TR640E/TR730E/
TR840E/TR845E :
Chrominance signal :
0.3 Vp-p, 75 ohms, unbalanced
Video input
(CCD-TR840E : AUS only)/output
Phono jack :
1 Vp-p, 75 ohms, unbalanced

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

— Continued on next page —

8 VIDEO CAMERA RECORDER
CCD-TR311/TR311E/TR411E/TR412E/TR511E/TR512E/TR640E/TR730E
Hi8 VIDEO CAMERA RECORDER
CCD-TR840E/TR845E



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.

- 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 , $\text{M}\Omega$: 1000 $\text{k}\Omega$.
- 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.

Example	C541	L452
	22U	10UH
	TA A	2520

Kinds of capacitor Temperature characteristics External dimensions (mm)

- 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
- non flammable resistor.
- fusible resistor.
- panel designation.
- B+ Line
- B- Line
- IN/OUT direction of (+, -) B LINE.
- 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.

• 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.

1.Connection

Pattern box 1.5m

Lens reference plane
surface Imaging surface
of CCD imager
(IC401 on CD-181 board)

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-181 (CCD IMAGER) PRINTED WIRING BOARD

- Ref No. CD-181 BOARD: 3,000 series -

CD-181 BOARD (SIDE B)

CD-181 BOARD (SIDE A)

CD-181 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-181 BOARD (SIDE A) details: VF-119 (COLOR EVF), DD-105 (POWER), CD-181 (CCD IMAGER), CF-49 (CONTROL), MA-311 (STEREO MIC), PJ-81 (AV IN/OUT).

CD-181 BOARD

CCD IMAGER

-REF. NO. : 3,000 SERIES-

XX MARK : NO MOUNT

NO MARK : CAMERA REC mode

TO VC-195 BOARD (1/9) CN501 (SEE PAGE 4-19)

• SIGNAL PATH

VIDEO SIGNAL		
CHROMA	Y	Y/CHROMA
REC		
PB		

510H NTSC MODEL: CCD-TR311
510H PAL MODEL: CCD-TR311E/TR411E/TR412E/TR511E/TR512E
760H PAL MODEL: CCD-TR640E/TR730E/TR840E/TR845E

CD-181BOARD CAMERA REC

① IC401 ①, ② 7Vp-p

② IC401 ③, ④ 7Vp-p

③ IC401 ⑦ 1.3Vp-p

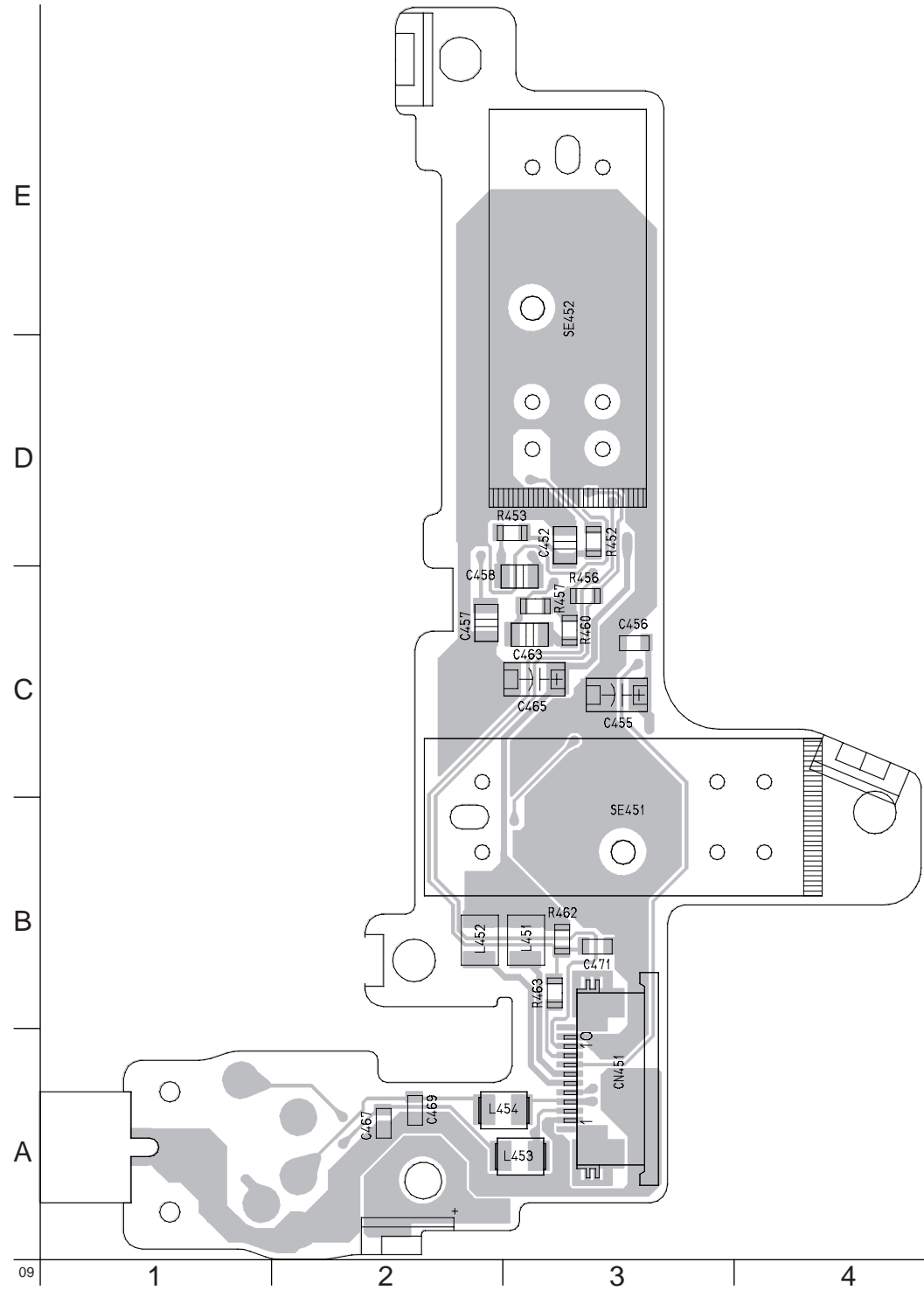
Note on the CCD imager replacement

- The CCD imager is not mounted for the already mounted CD-181 board supplied as the repair parts. When replacing the CD-181 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.

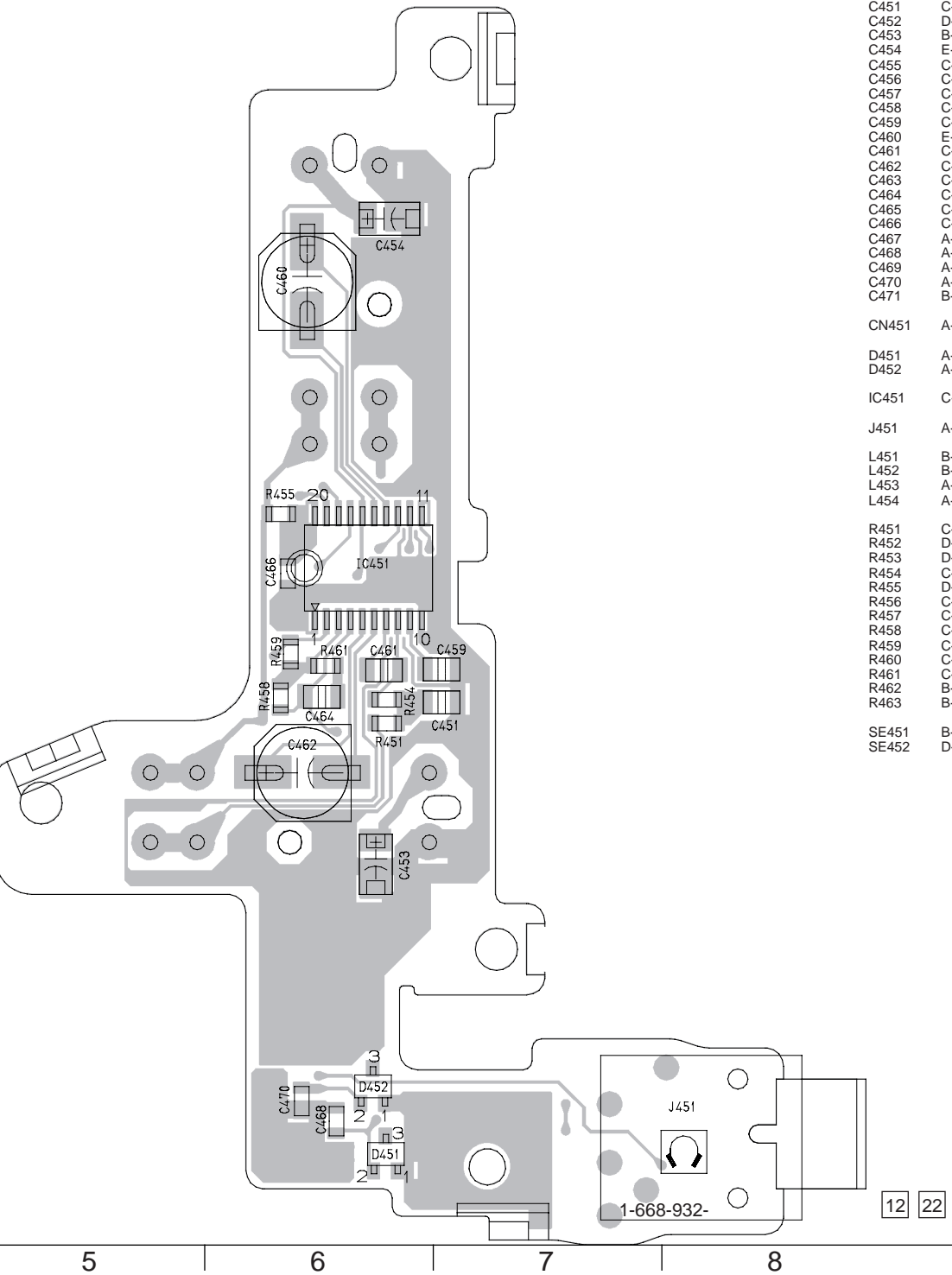
SE-65 (STEADY SHOT) PRINTED WIRING BOARD

- Ref No. SE-65 BOARD: 3,000 series -

SE-65 BOARD (SIDE B)



SE-65 BOARD (SIDE A)



SE-65 BOARD

C451	C-6
C452	D-3
C453	B-6
C454	E-6
C455	C-3
C456	C-3
C457	C-2
C458	C-3
C459	C-6
C460	E-6
C461	C-6
C462	C-6
C463	C-3
C464	C-6
C465	C-3
C466	C-6
C467	A-2
C468	A-6
C469	A-2
C470	A-6
C471	B-3

CN451	A-3
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D451	A-6
D452	A-6

IC451	C-6
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J451	A-8
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L451	B-3
L452	B-2
L453	A-3
L454	A-2

R451	C-6
R452	D-3
R453	D-3
R454	C-6
R455	D-6
R456	C-3
R457	C-3
R458	C-6
R459	C-6
R460	C-3
R461	C-6
R462	B-3
R463	B-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

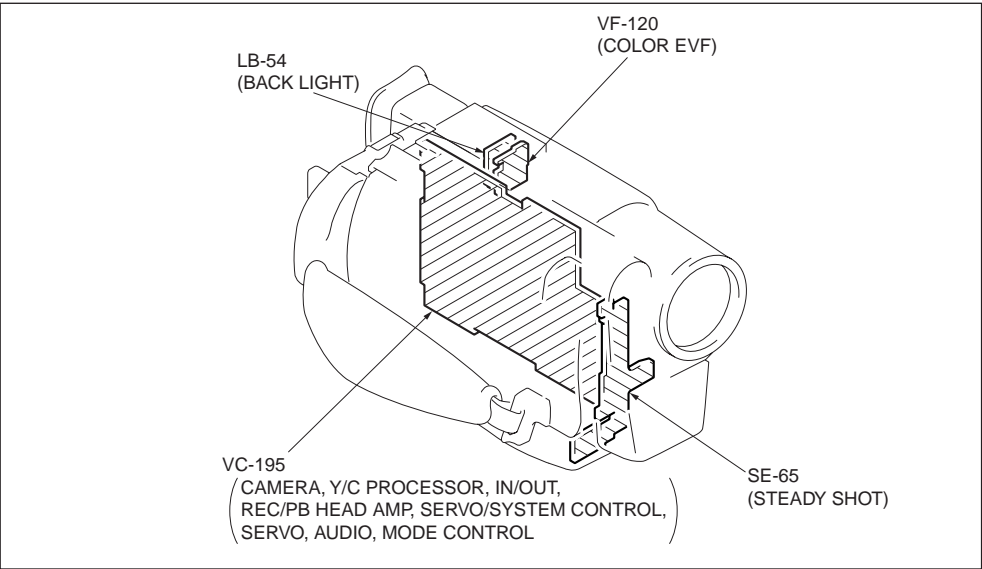
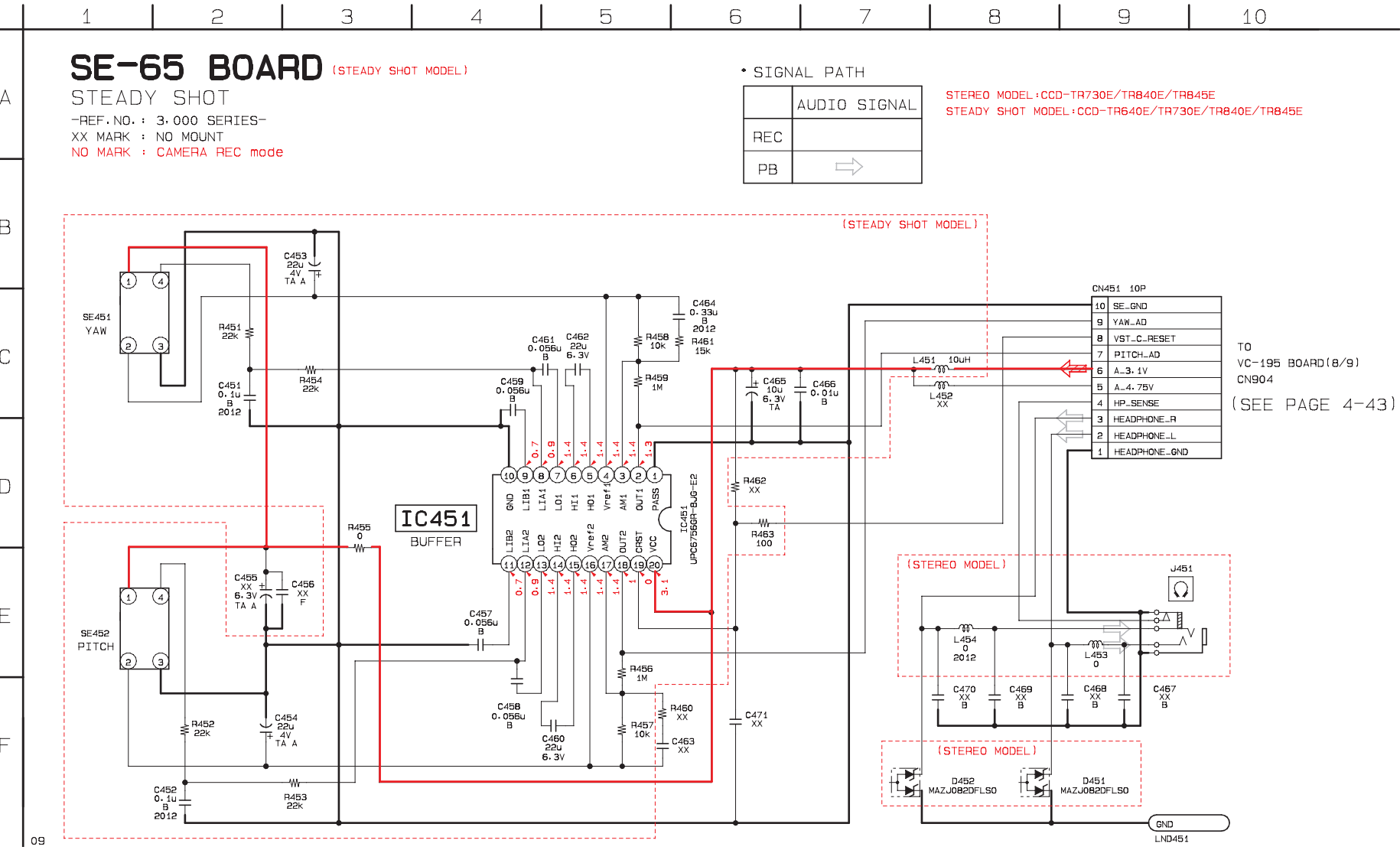
SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

SE451	B-3
SE452	D-3

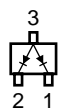
SE451	B-3
SE452	D-3



• For Printed Wiring Boards.

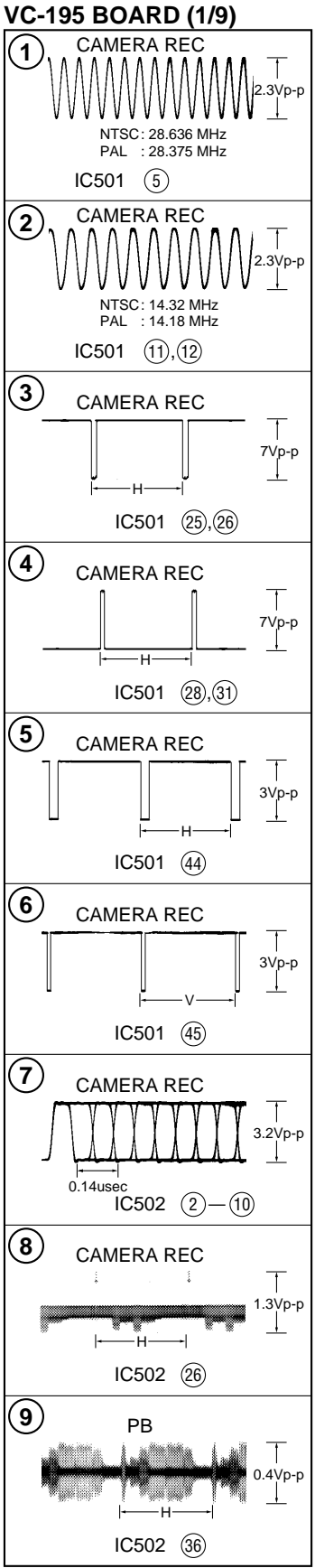
There are few cases that the part isn't mounted in this model is printed on this diagram.

• Chip diode



CCD-TR311/TR311E/TR411E/TR412E/TR511E/TR512E/
TR640E/TR730E/TR840E/TR845E

- For schematic diagrams.
- Refer to page 4-13 for Printed Wiring Board.



VC-195 BOARD (1/9)

CAMERA1 (CH BLOCK)
-REF. NO. : 1-000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC mode
* : Can not be measured.

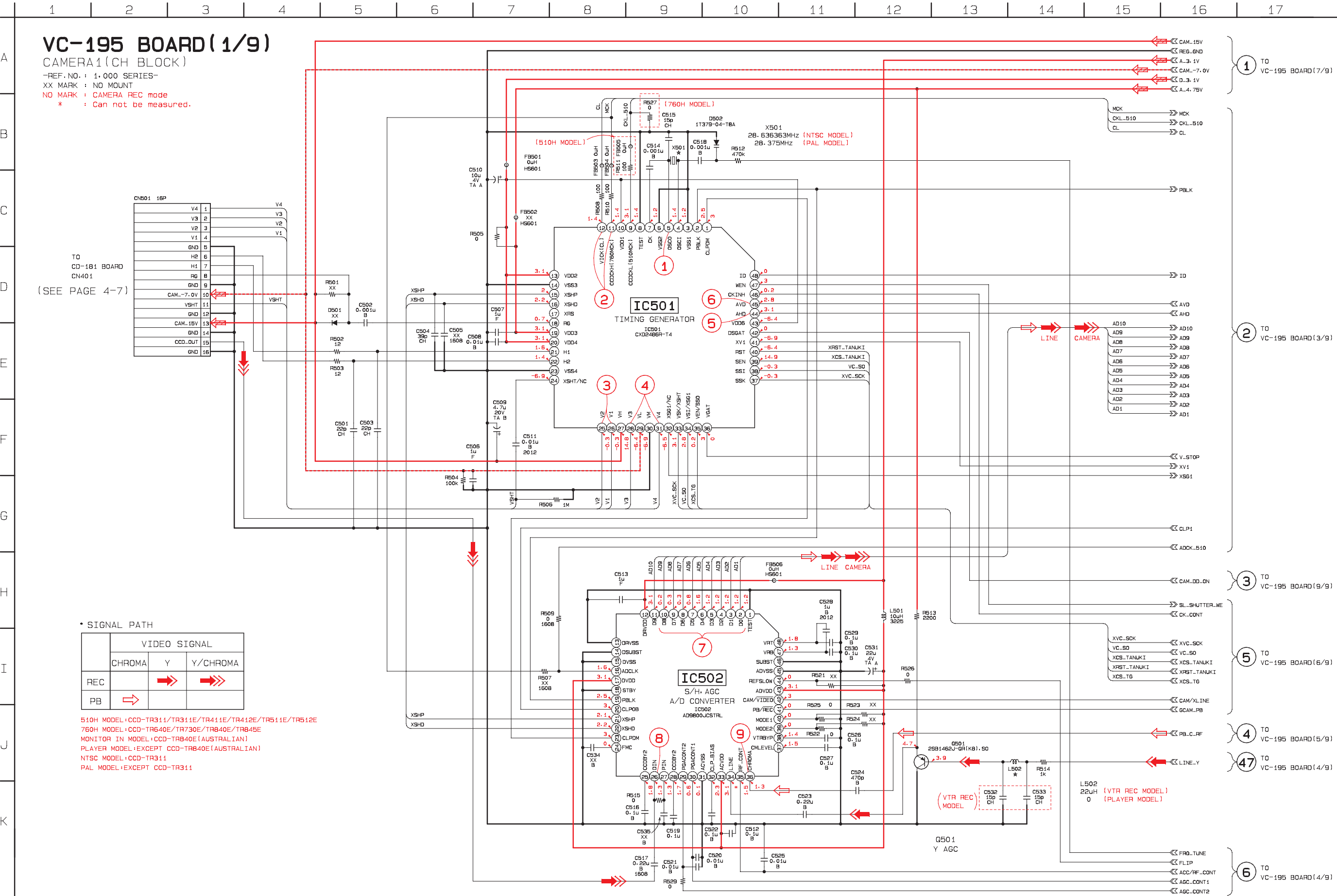
TO
CD-181 BOARD
CN401
(SEE PAGE 4-7)

• SIGNAL PATH

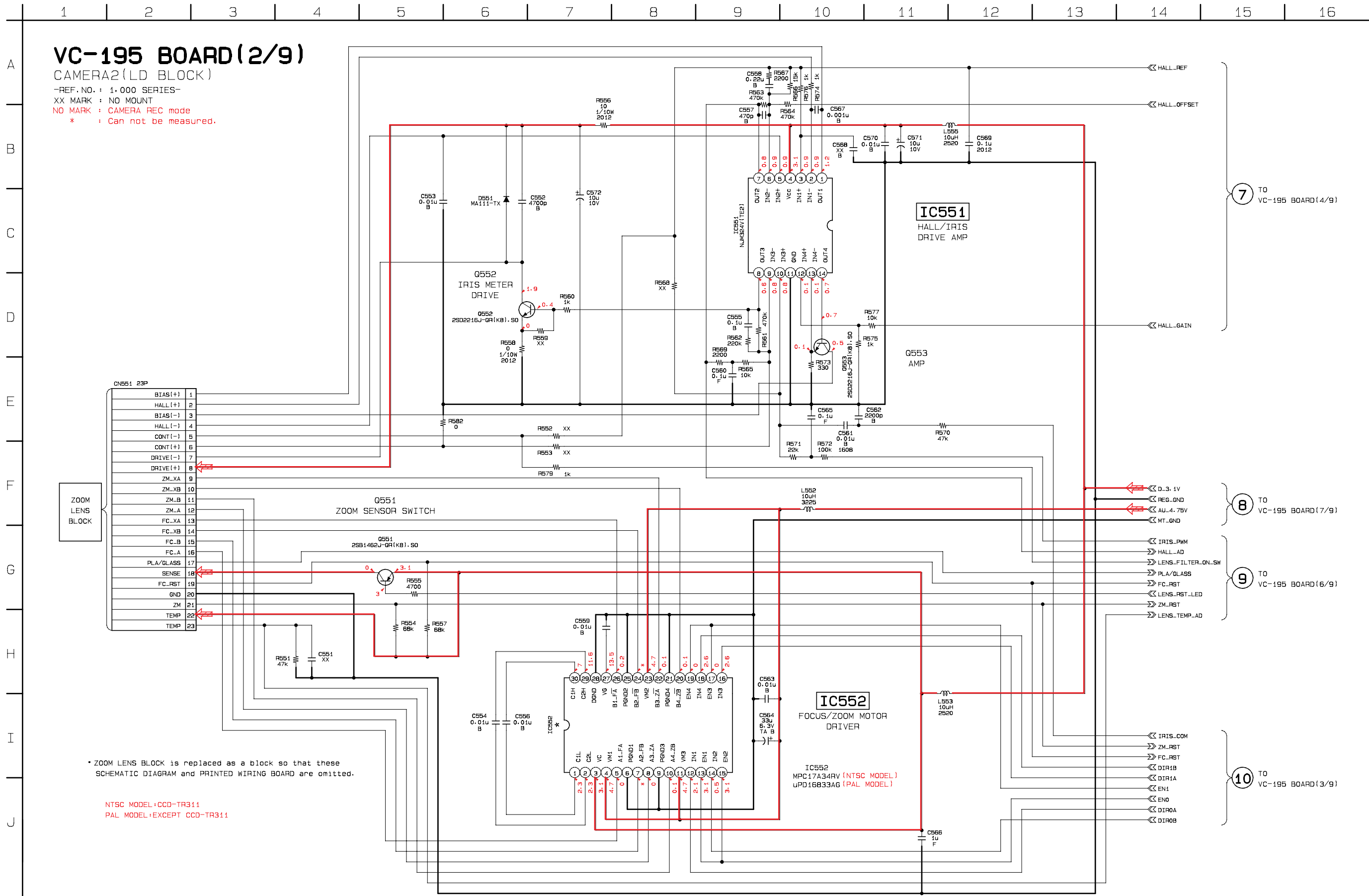
	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC		➡	➡➡
PB	➡		

510H MODEL : CCD-TR311/TR311E/TR411E/TR412E/TR511E/TR512E
760H MODEL : CCD-TR640E/TR730E/TR840E/TR845E
MONITOR IN MODEL : CCD-TR840E (AUSTRALIAN)
PLAYER MODEL : EXCEPT CCD-TR840E (AUSTRALIAN)
NTSC MODEL : CCD-TR311
PAL MODEL : EXCEPT CCD-TR311

09

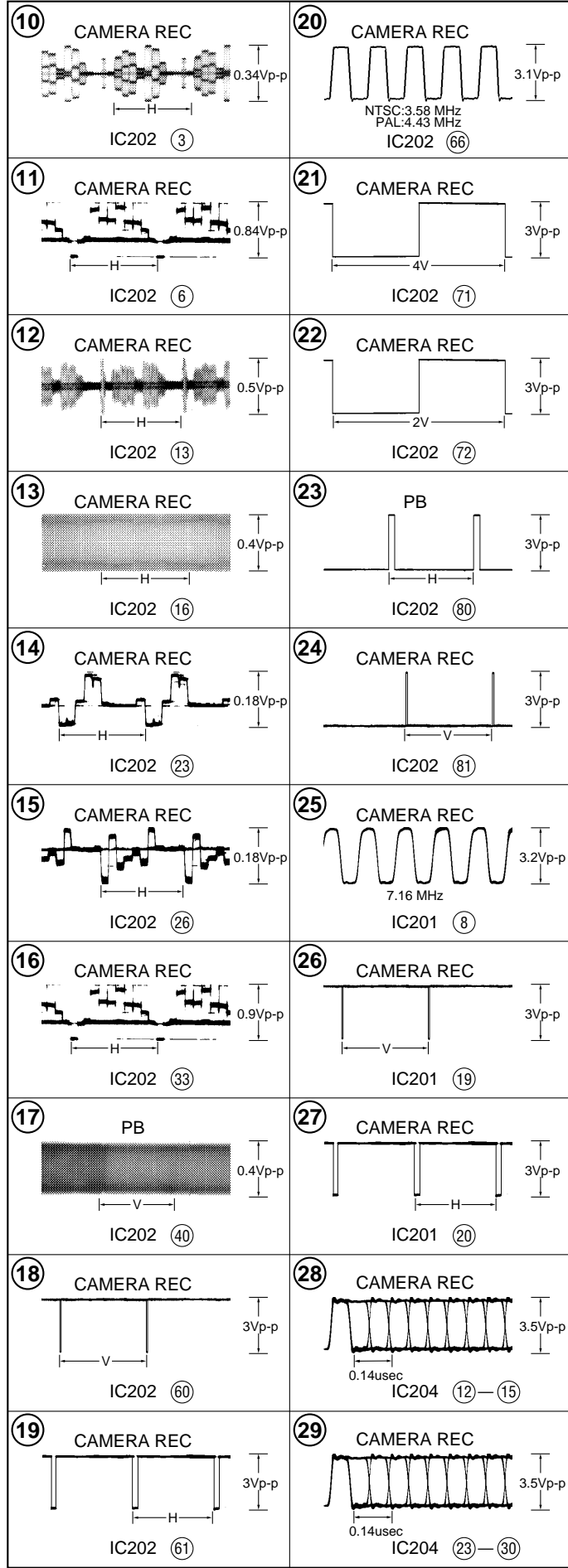


- For schematic diagrams.
- Refer to page 4–13 for Printed Wiring Board.

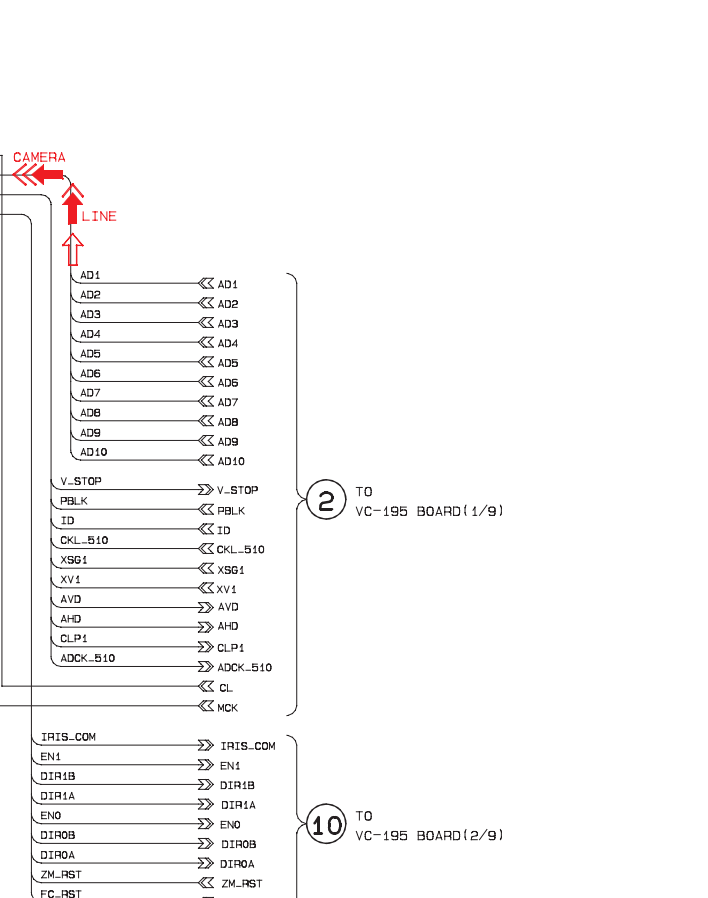
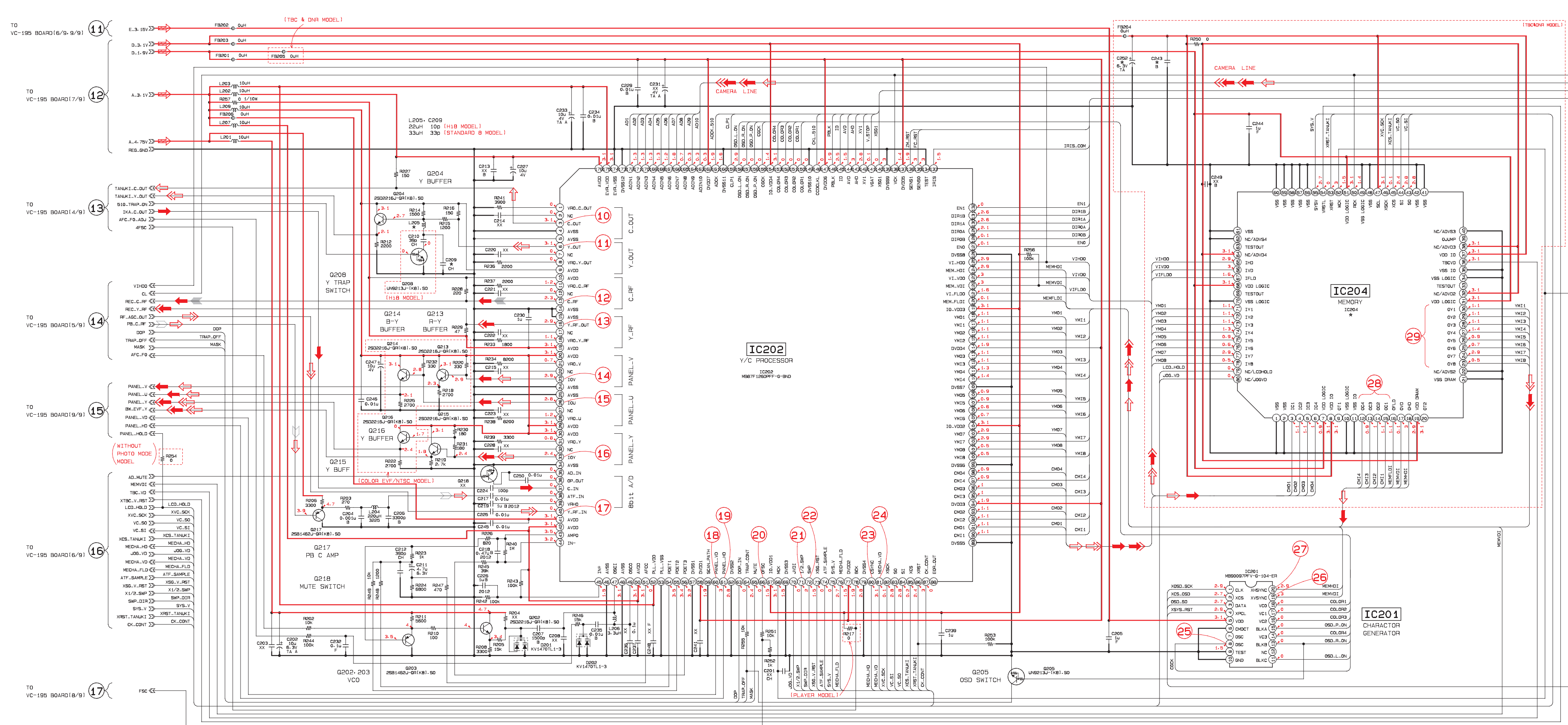


- For schematic diagrams.
- Refer to page 4-13 for Printed Wiring Board.

VC-195 BOARD (3/9)



VC-195 BOARD (3/9)
Y/C PROCESSOR (CL BLOCK)



* SIGNAL PATH

Ref. signal	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC	→	→	→
PB	→	→	→

* SIGNAL PATH

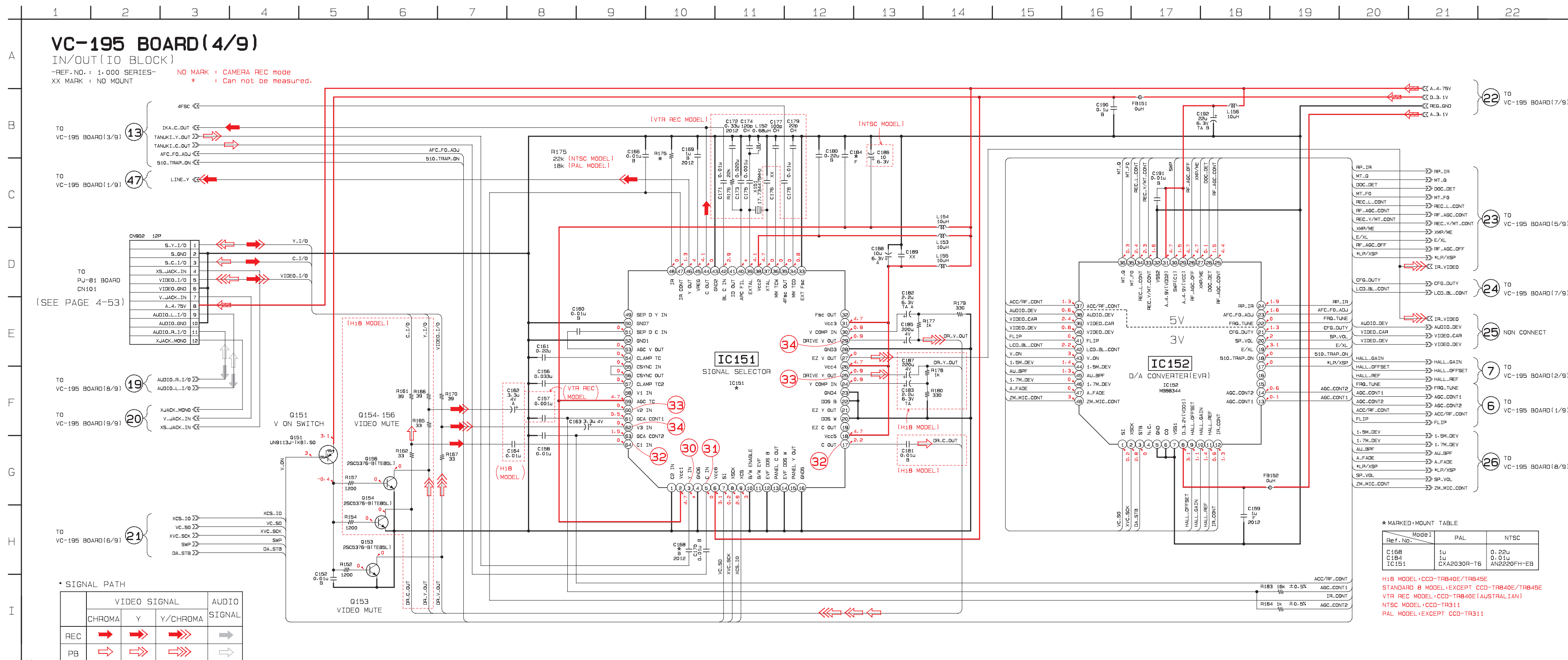
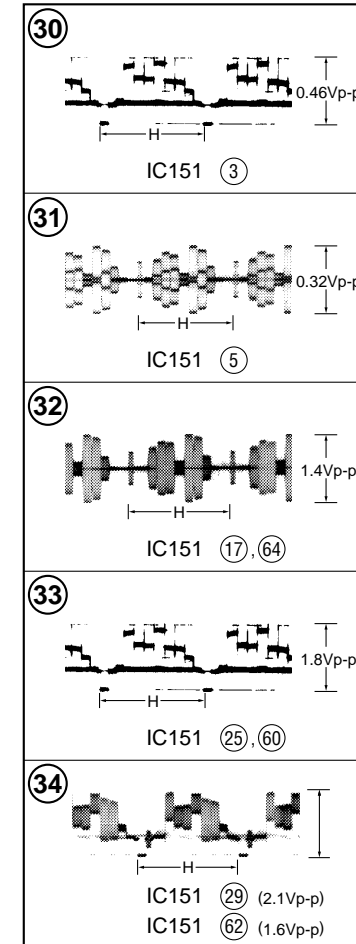
Ref. signal	REC	REC/PB	PB
Ref. signal	→	→	→

* MARKED MOUNT TABLE

Ref. No.	Model	H18	TBCADNR
C243	1U	XCX3124R-T6	XCX3131R-T6
C250	1U	XCX3124R-T6	XCX3131R-T6
IC204	1U	XCX3124R-T6	XCX3131R-T6

H18 MODEL+CCD-TR840E/TR845E
STANDARD B MODEL+EXCEPT TR840E/TR845E
PLAYER MODEL+EXCEPT CCD-TR840E/AUSTRALIAN
TBCADNR MODEL+CCD-TR730E/TR840E/TR845E
COLOR EVF MODEL+CCD-TR512E/TR730E
NTSC MODEL+CCD-TR311
WITHOUT PHOTO MODE MODEL+EXCEPT CCD-TR730E

- For schematic diagrams.
- Refer to page 4–13 for Printed Wiring Board.

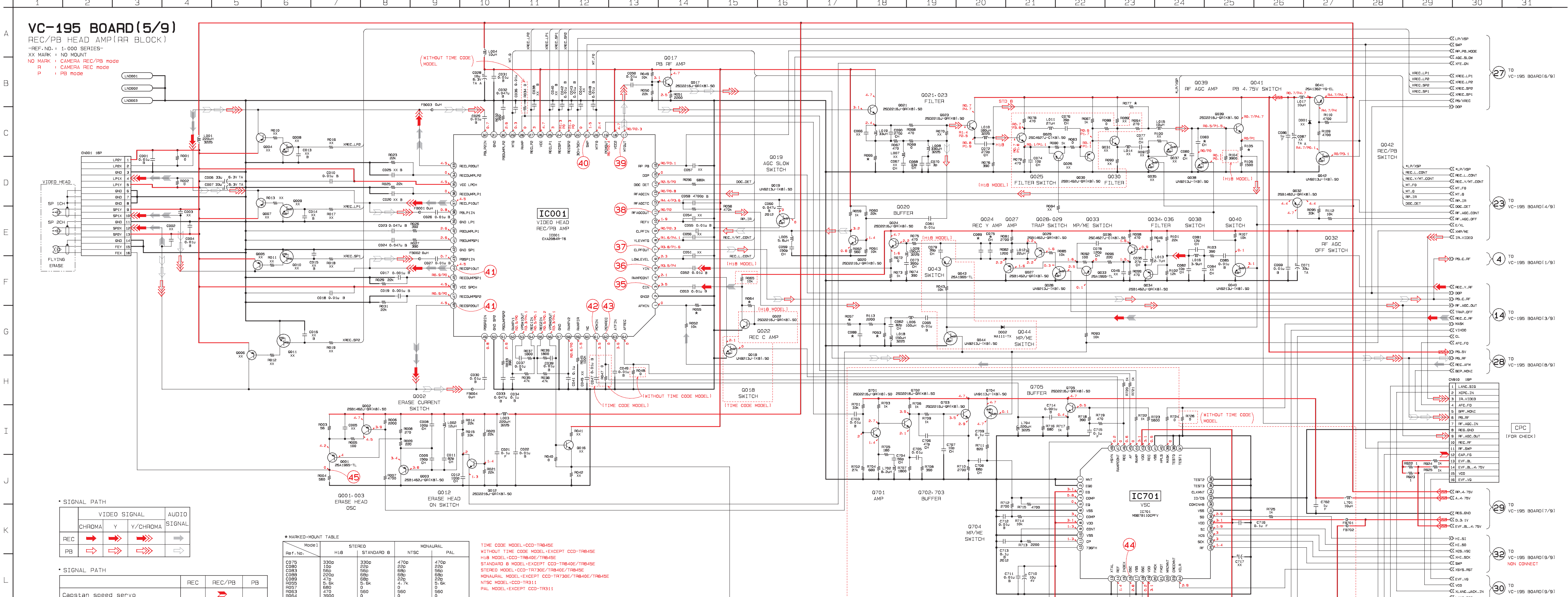
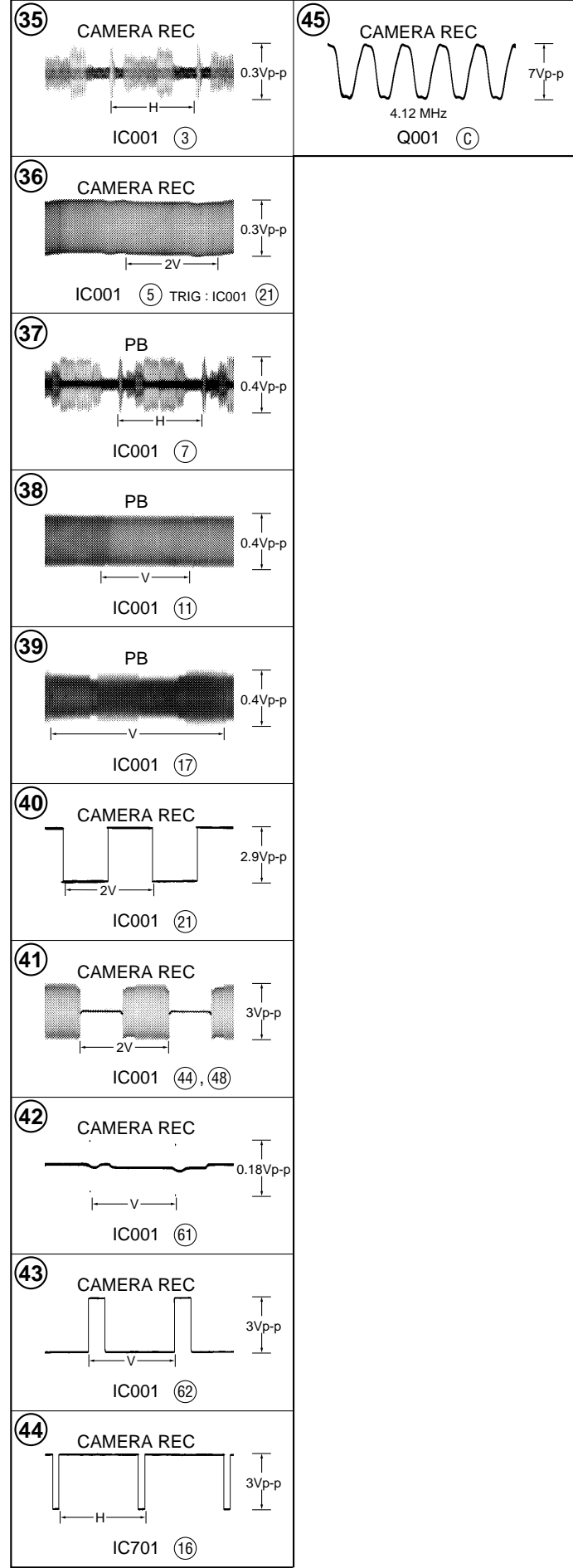
VC-195 BOARD (4/9)
CAMERA REC

★ MARKED:MOUNT TABLE		
Model Ref. NO.	PAL	NTSC
C168	1u	0.22u
C184	1u	0.01u
IC151	CXA2030R-T6	AN2202FH-E8

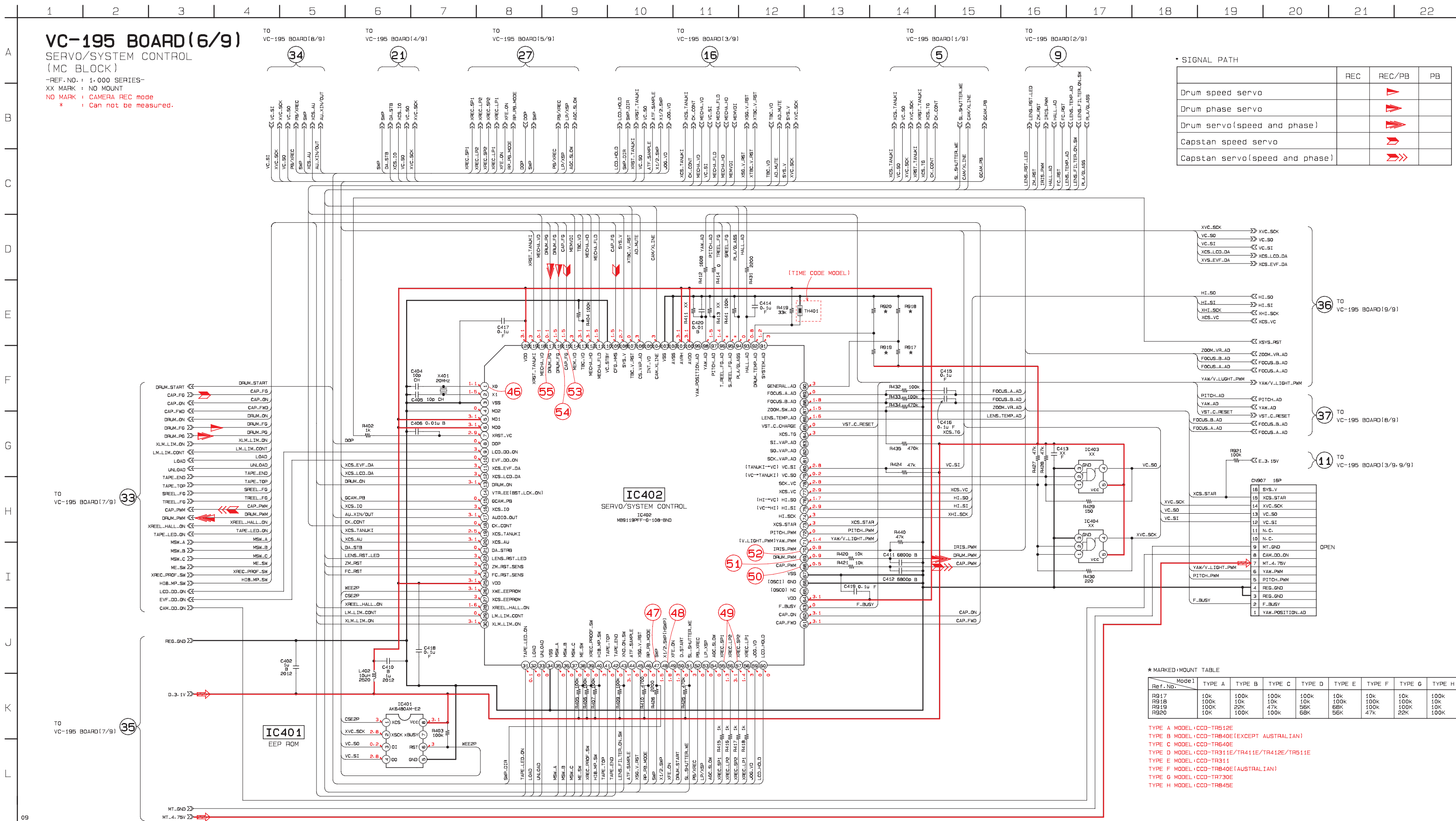
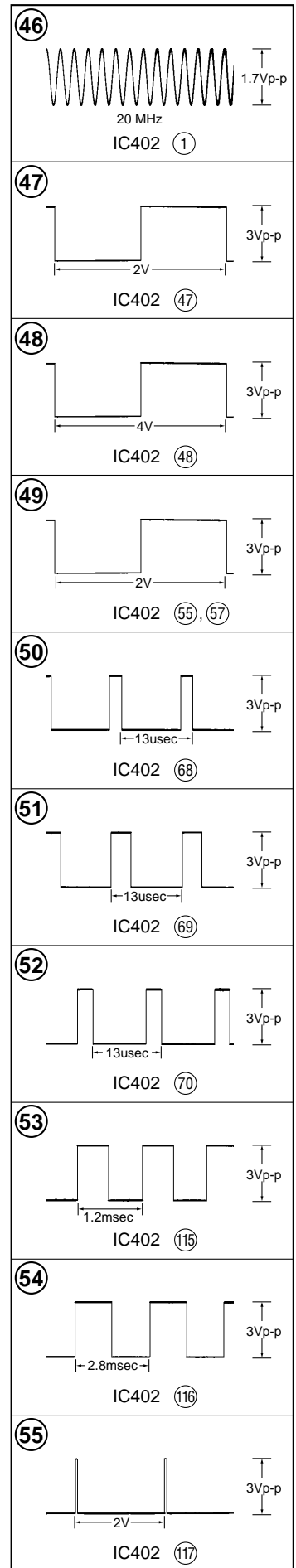
Hi8 MODEL:CCD-TR840E/TR845E
STANDARD 8 MODEL:EXCEPT CCD-TR840E/TR845E
VTR REC MODEL:CCD-TR840E(AUSTRALIAN)
NTSC MODEL:CCD-TR311
PAL MODEL:EXCEPT CCD-TR311

- For schematic diagrams.
- Refer to page 4–13 for Printed Wiring Board

VC-195 BOARD (5/9)

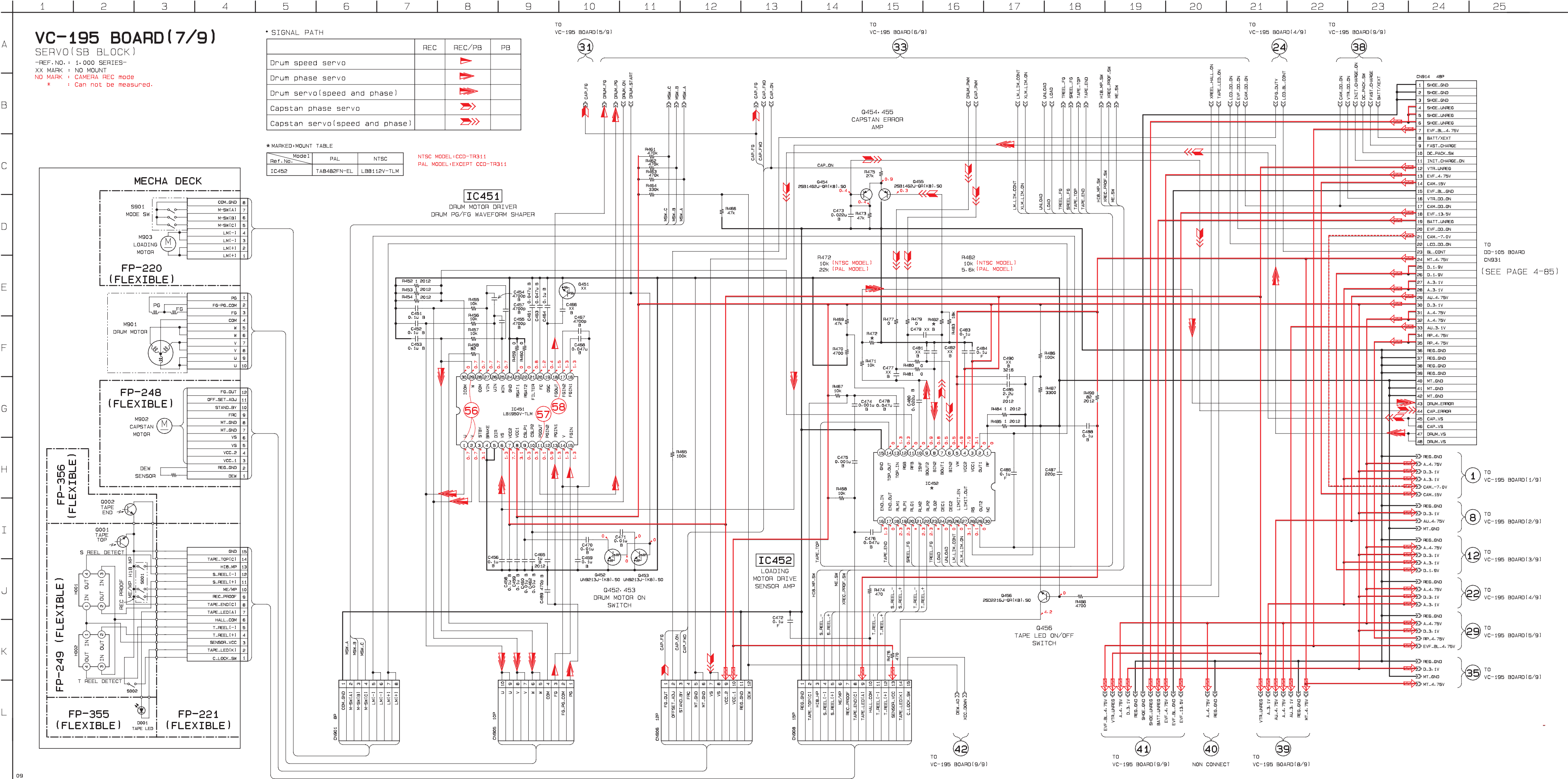


- **For schematic diagrams.**
- Refer to page 4–13 for Printed Wiring Board.

VC-195 BOARD (6/9)
CAMERA REC

CCD-TR311/TR311E/TR411E/TR412E/TR511E/TR512E/
TR640E/TR730E/TR840E/TR845E

• For schematic diagrams. • Refer to page 4-13 for Printed Wiring Board.



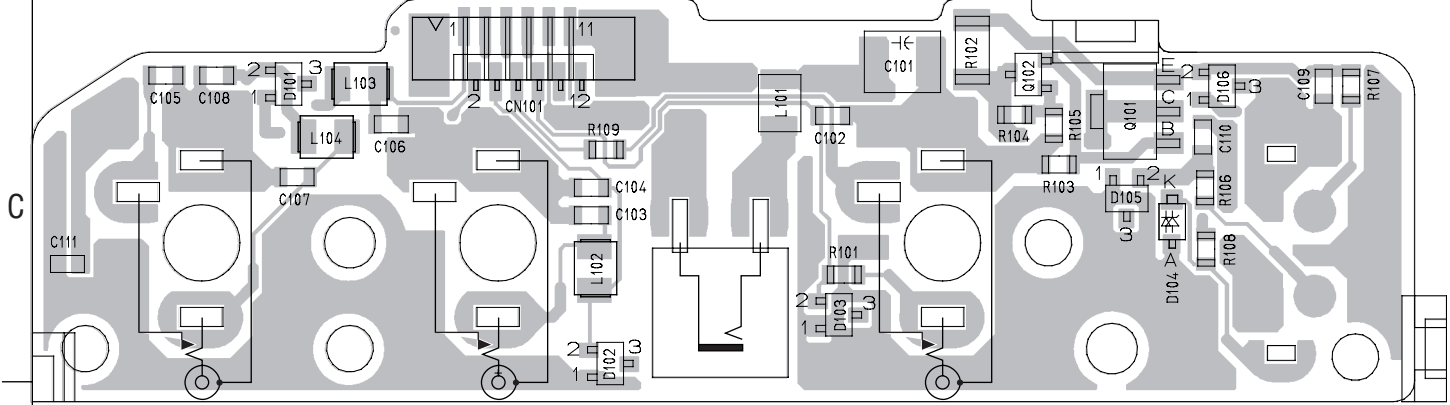
VC-195 BOARD(8/9)

- AUDIO(AU BLOCK
-REF.NO. : 1,000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC mode

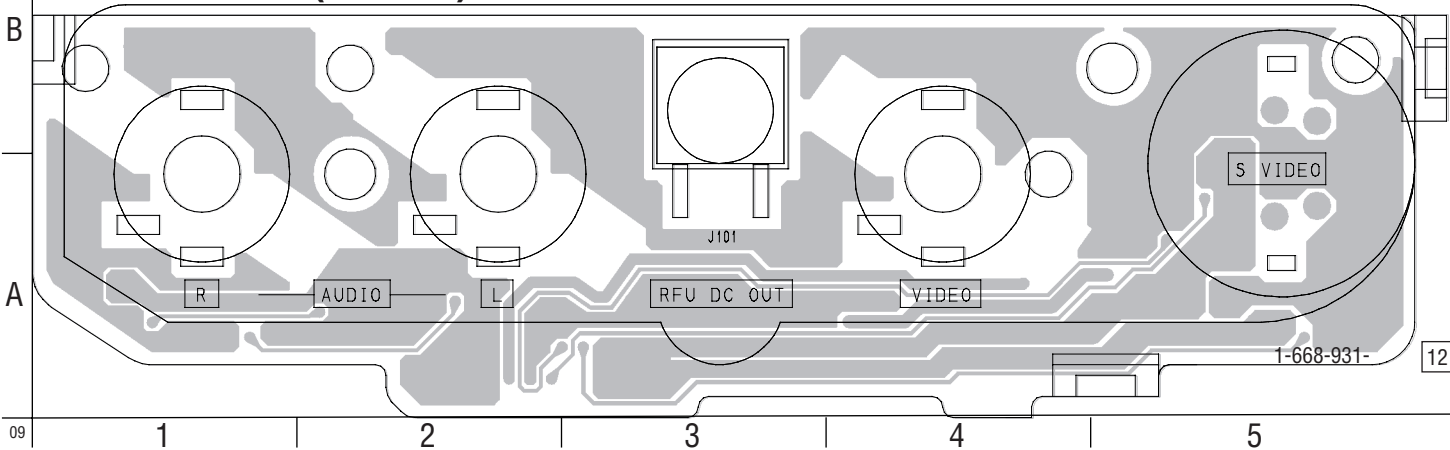


PJ-81 (AV IN/OUT) PRINTED WIRING BOARD
- Ref No. PJ-81 BOARD: 3,000 series -

PJ-81 BOARD (SIDE B)



PJ-81 BOARD (SIDE A)



PJ-81 BOARD

C101	C-4
C102	C-4
C103	C-3
C104	C-3
C105	C-1
C106	C-2
C107	C-1
C108	C-1
C109	C-5
C110	C-5
C111	C-1

CN101	C-2
D101	C-1
D102	C-3
D103	C-4
D106	C-5
D107	C-5

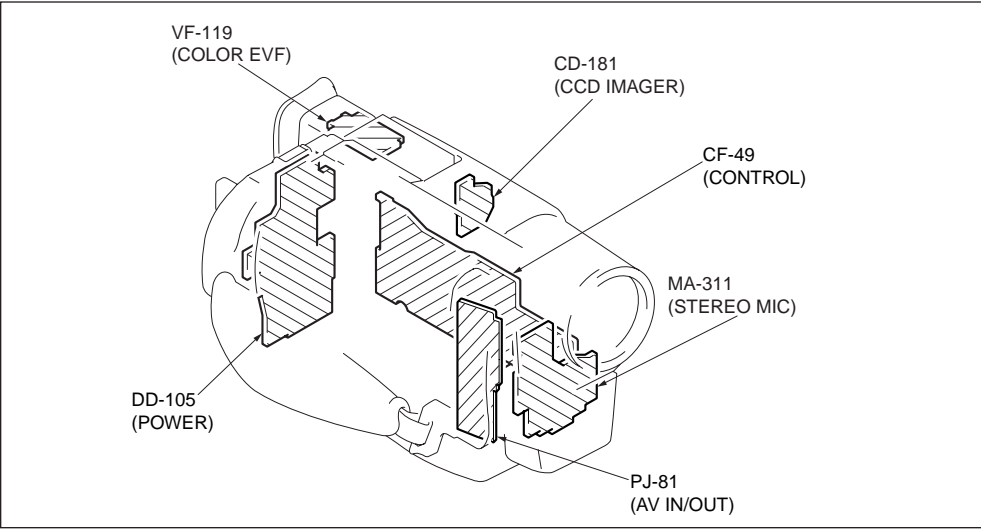
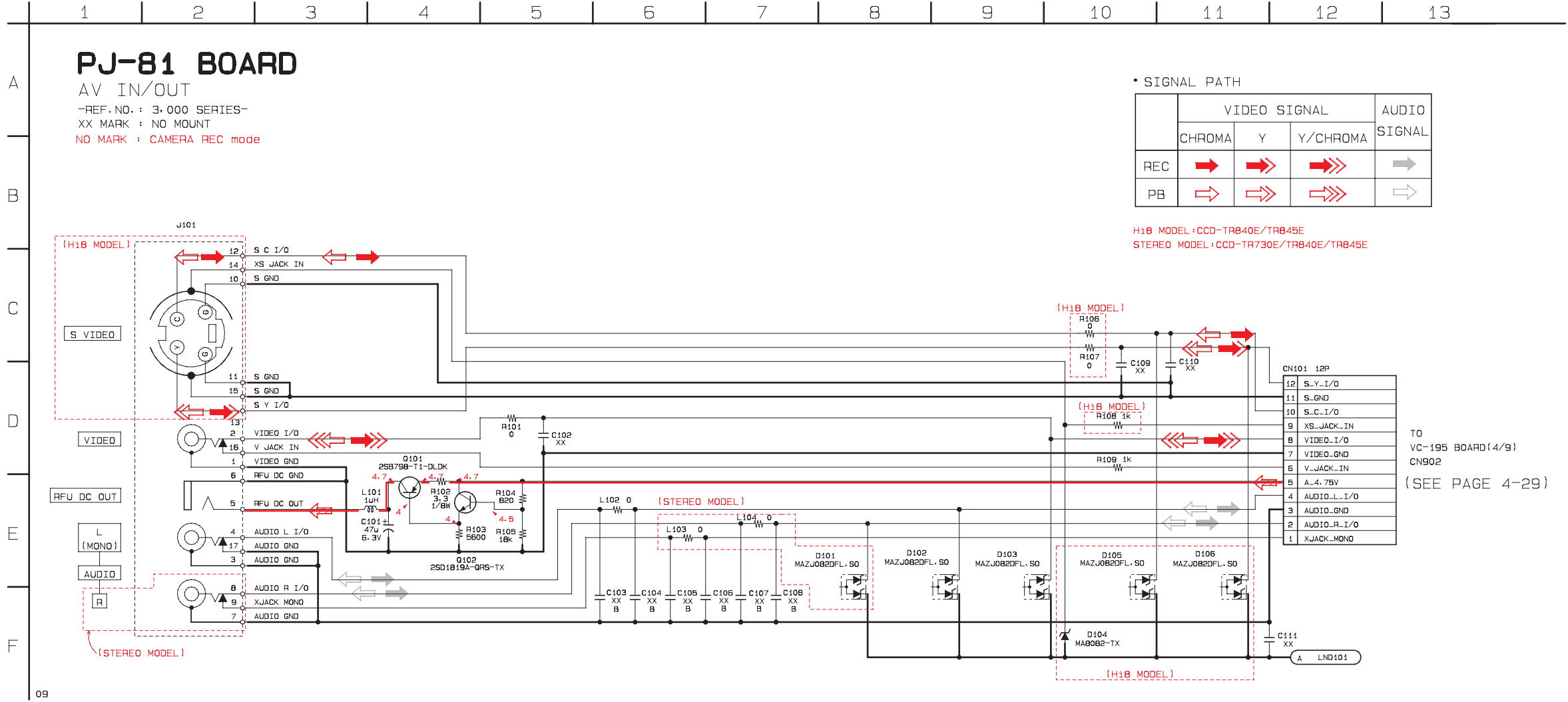
J101	A-3
L101	C-3
L102	C-3
L103	C-2
L104	C-2
Q101	C-5
Q102	C-4

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

PJ-81 BOARD

AV IN/OUT

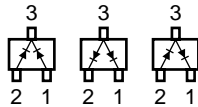
-REF. NO. : 3,000 SERIES-
XX MARK : NO MOUNT
NO MARK : CAMERA REC mode

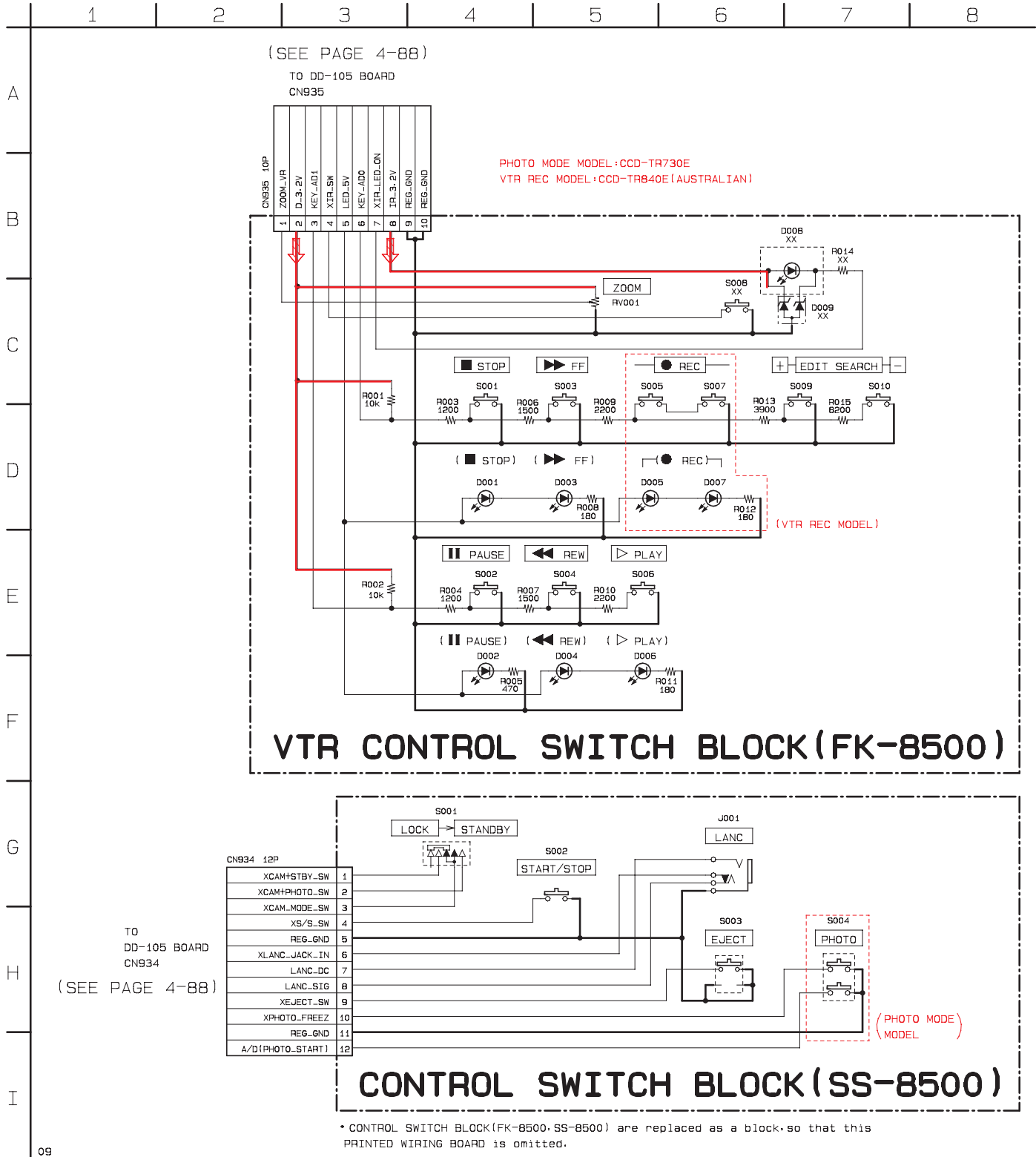


• For Printed Wiring Boards.

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

• Chip diode

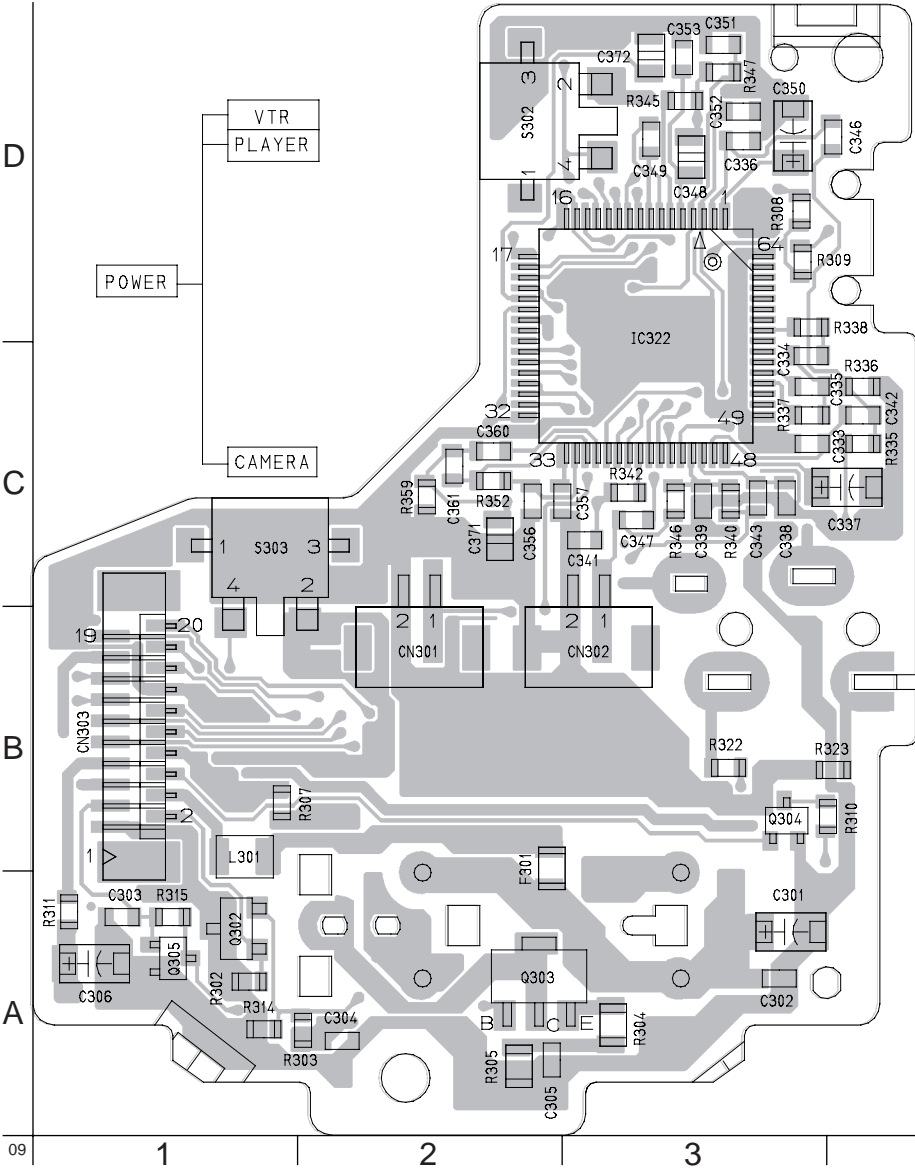




MA-311 (STEREO MIC) PRINTED WIRING BOARDS

- Ref No. MA-311 BOARD: 3,000 series -

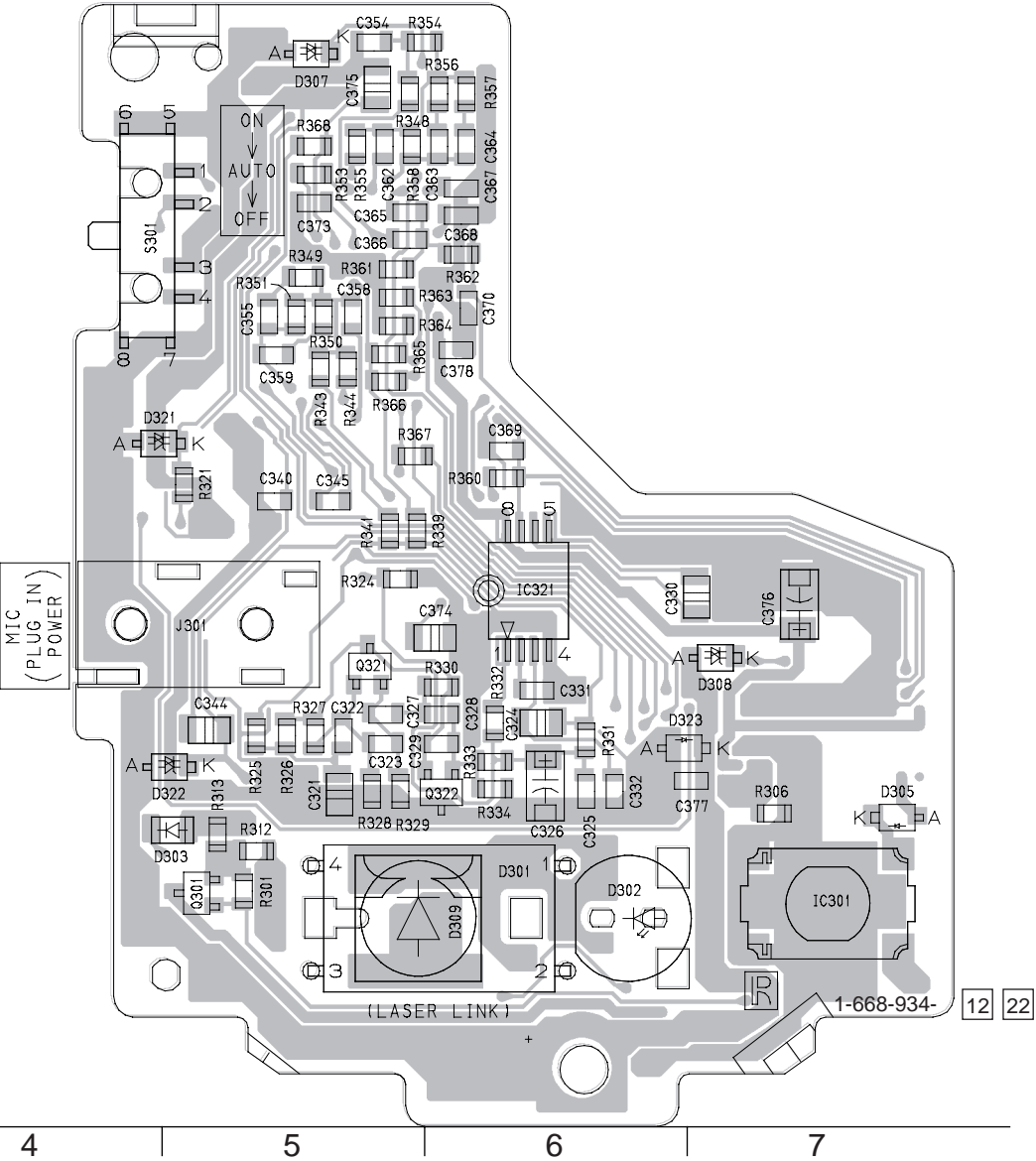
MA-311 BOARD (SIDE B)



MA-311 BOARD

C301	A-3	C344	B-5	C373	D-5	Q301	A-5	R327	B-5	R356	D-6
C302	A-3	C345	C-5	C374	B-6	Q302	A-1	R328	B-5	R357	D-6
C303	A-1	C346	D-4	C375	D-5	Q303	A-2	R329	B-5	R358	D-5
C304	A-2	C347	C-3	C376	B-7	Q304	B-3	R330	B-6	R359	C-2
C305	A-2	C348	D-3	C377	B-6	Q305	A-1	R331	B-6	R360	C-6
C306	A-1	C349	D-3	C378	C-6	Q321	B-5	R332	B-6	R361	D-5
C321	B-5	C350	D-3			Q322	B-6	R333	B-6	R362	D-6
C322	B-5	C351	D-3	CN301	B-2			R334	B-6	R363	D-5
C323	B-5	C352	D-3	CN302	B-3	R301	A-5	R335	C-4	R364	D-5
C324	B-6	C353	D-3	CN303	B-1	R302	A-1	R336	C-4	R365	C-5
C325	B-6	C354	D-5			R303	A-2	R337	C-3	R366	C-5
C326	B-6	C355	D-5	D301	A-6	R304	A-3	R338	D-3	R367	C-5
C327	B-5	C356	C-2	D302	A-6	R305	A-2	R339	C-5	R368	D-5
C328	B-6	C357	C-2	D303	B-5	R306	B-7	R340	C-3		
C329	B-6	C358	D-5	D305	B-7	R307	B-1	R341	C-5		
C330	C-7	C359	C-5	D307	D-5	R308	D-3	R342	C-3		
C331	B-6	C360	C-5	D308	B-7	R309	D-3	R343	C-5		
C332	B-6	C361	C-2	D309	A-5	R310	B-3	R344	C-5		
C333	C-3	C362	D-5	D322	B-5	R311	A-1	R345	D-3		
C334	C-3	C363	D-6	D323	B-6	R312	B-5	R346	C-3		
C335	C-3	C364	D-6			R313	B-5	R347	D-3		
C336	D-3	C365	D-5	IC301	A-7	R314	A-1	R348	D-5		
C337	C-4	C366	D-5	IC321	C-6	R315	A-1	R349	D-5		
C338	C-3	C367	D-6	IC322	D-3	R321	C-5	R350	D-5		
C339	C-3	C368	D-6			R322	B-3	R351	D-2		
C340	C-5	C369	C-6	J310	B-5	R323	A-4	R352	C-2		
C341	C-3	C370	C-6			R324	C-5	R353	D-5		
C342	C-4	C371	C-2	L301	B-1	R325	B-5	R354	D-5		
C343	C-3	C372	D-3			R326	B-5	R355	D-5		

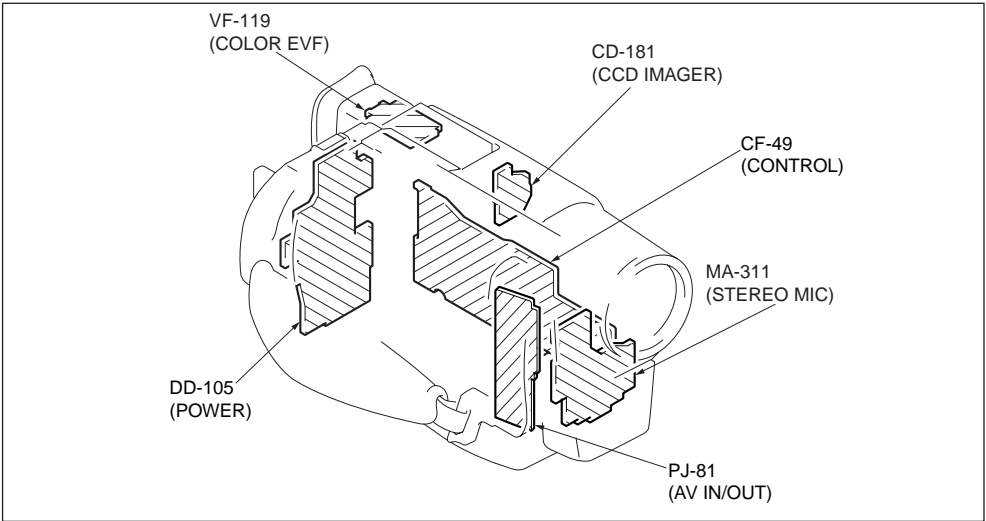
MA-311 BOARD (SIDE A)



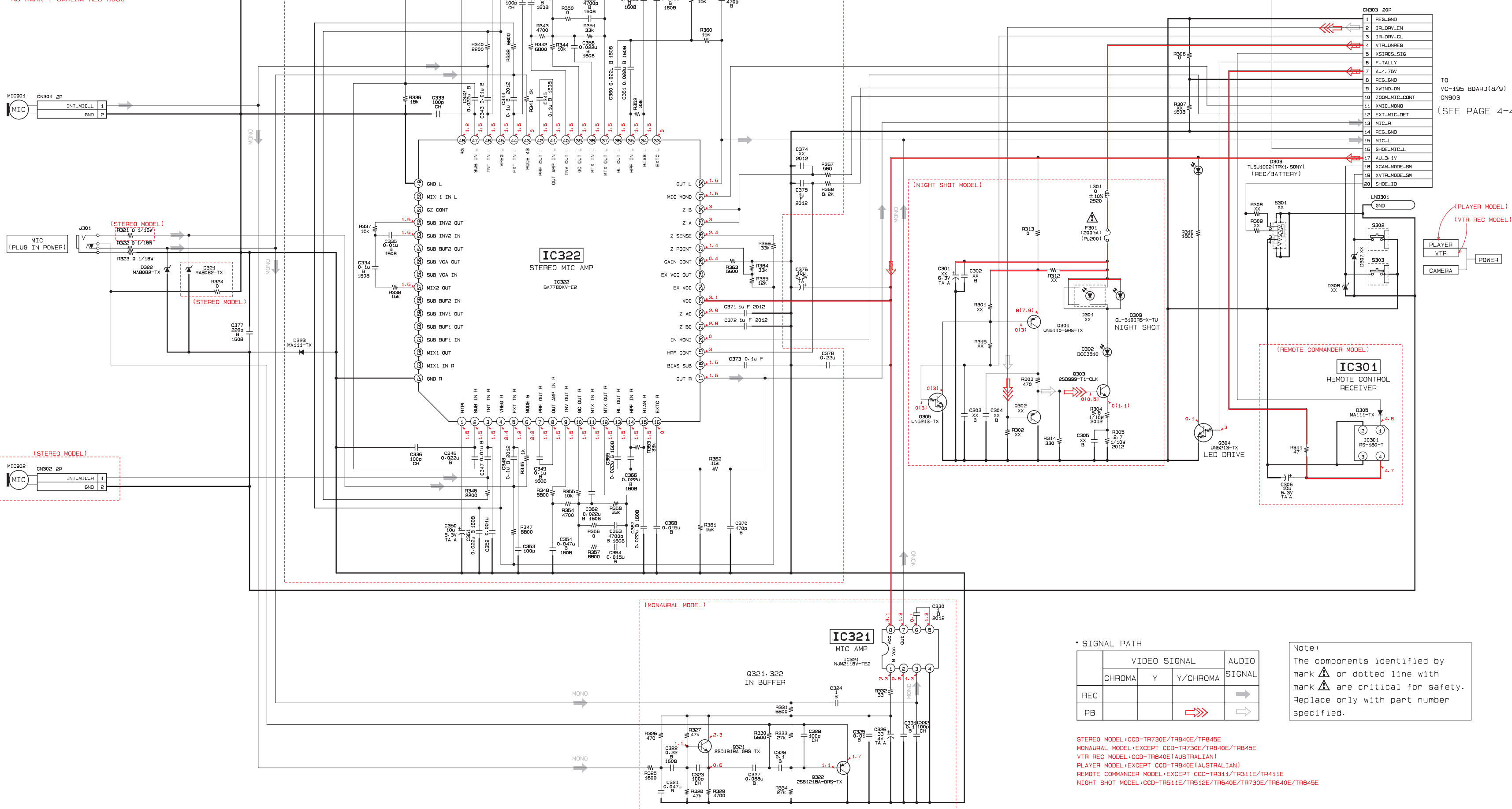
• For Printed Wiring Boards.



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

• Chip transistor

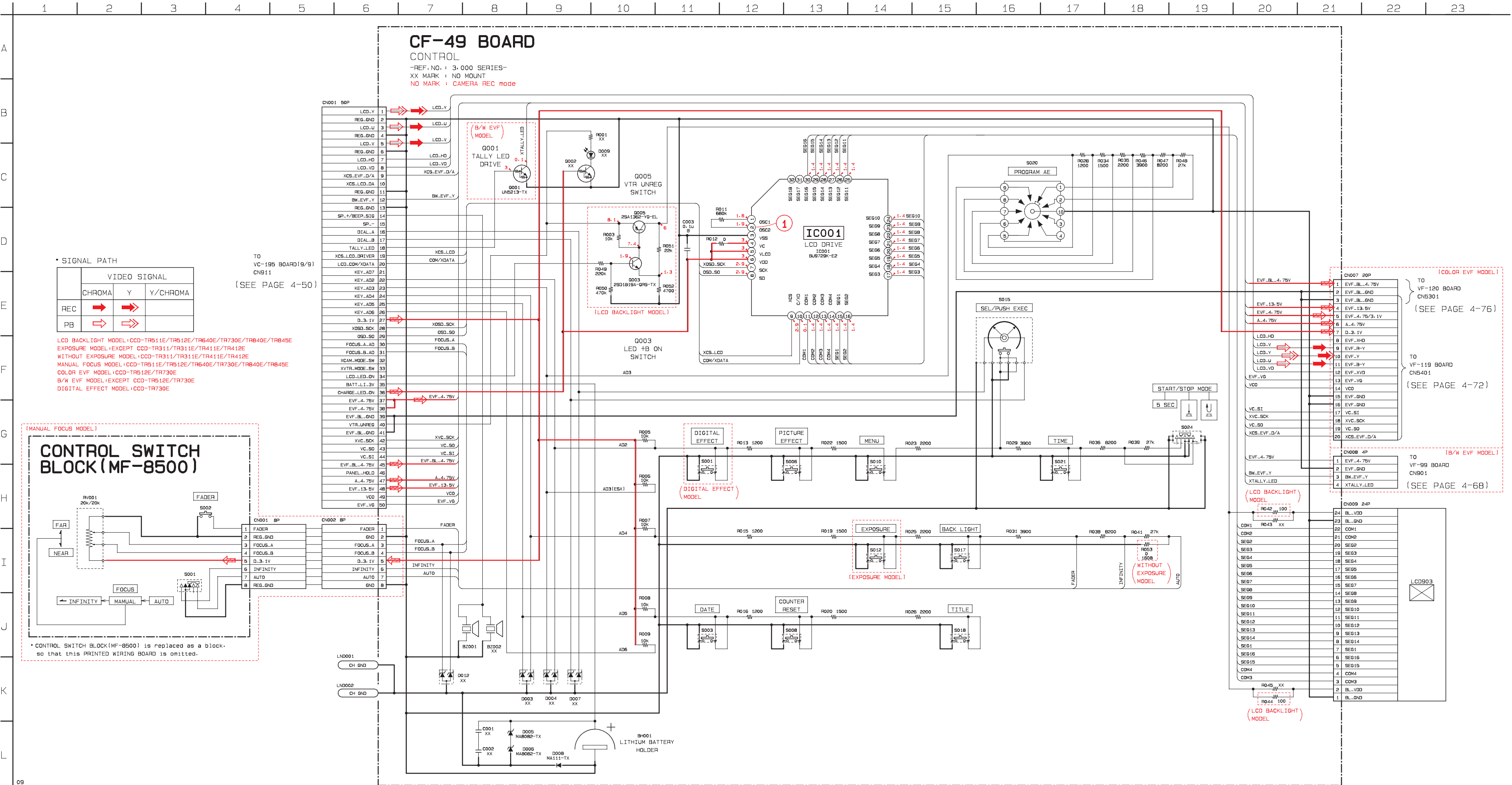
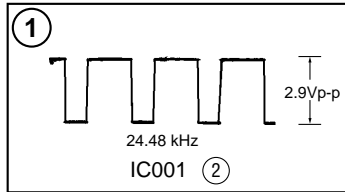


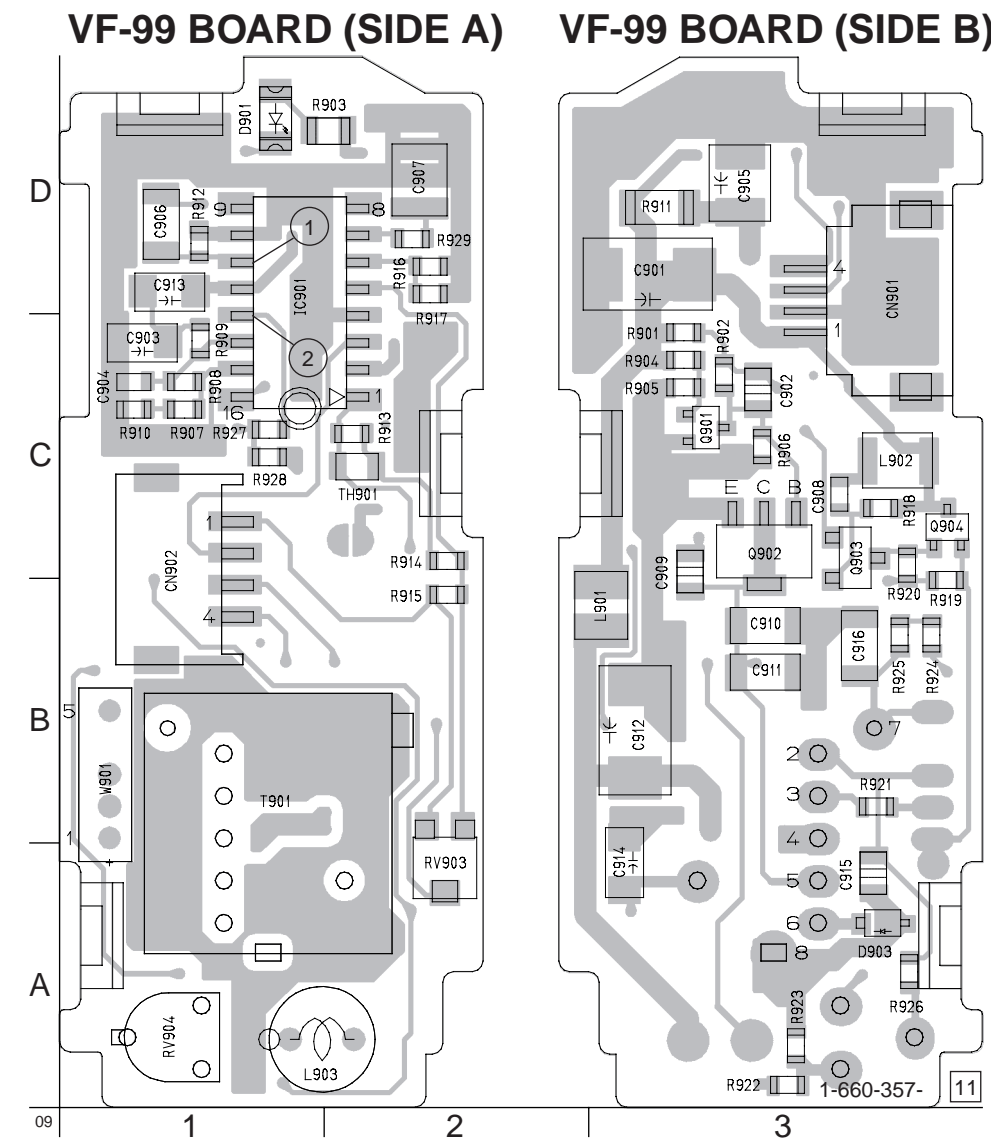
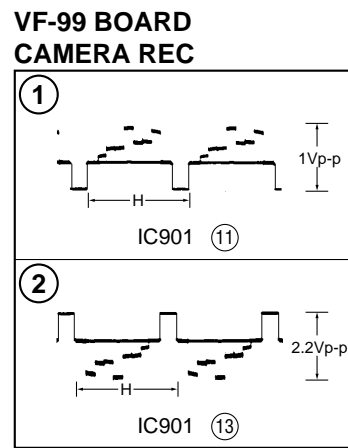
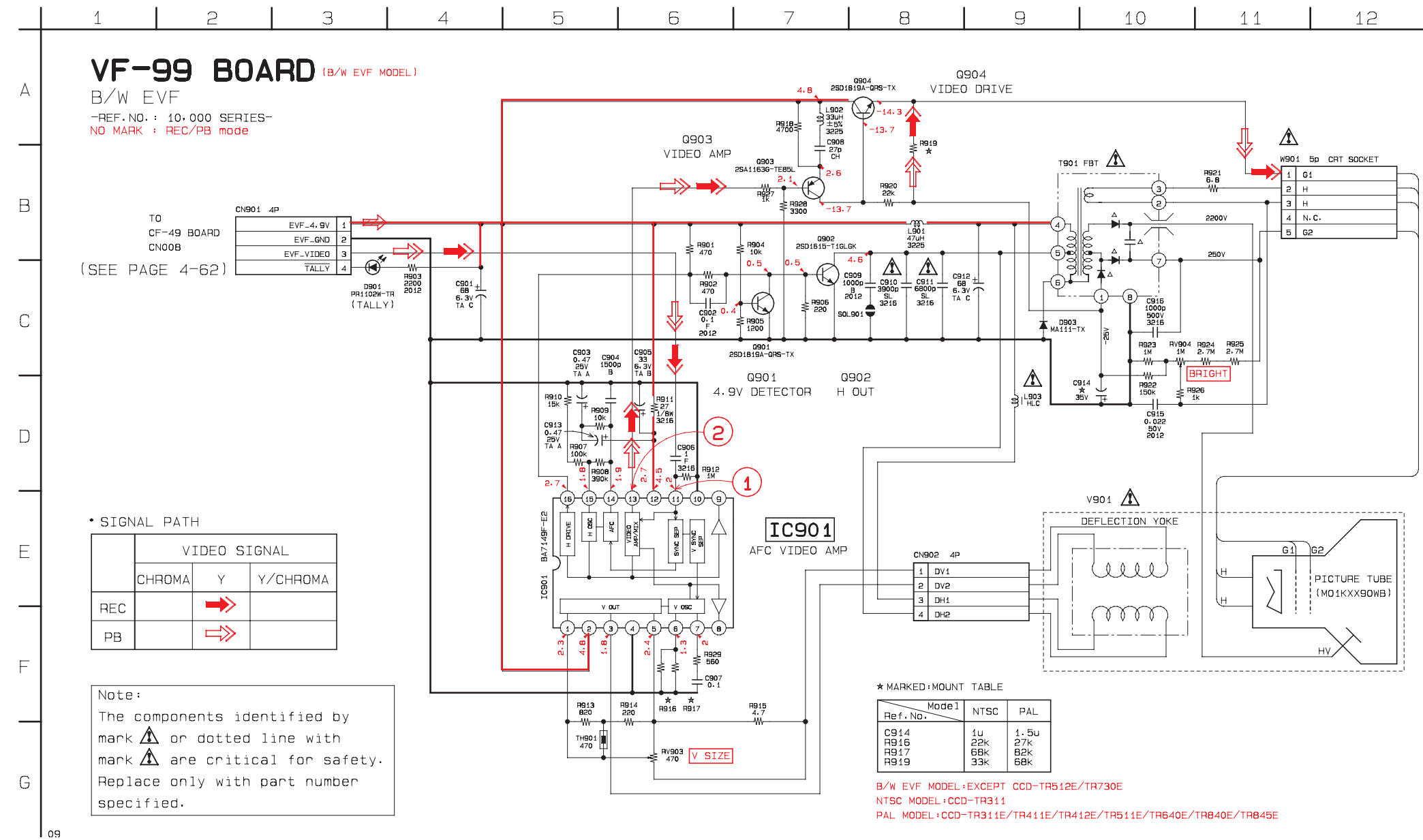
-REF.NO. : 3.000 SERIES-
NO MARK : CAMERA REC mode



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

```
STEREO MODEL:CCD-TR730E/TR840E/TR845E
MONAURAL MODEL:EXCEPT CCD-TR730E/TR840E/TR845E
VTR REC MODEL:CCD-TR840E(AUSTRALIAN)
PLAYER MODEL:EXCEPT CCD-TR840E(AUSTRALIAN)
REMOTE COMMANDER MODEL:EXCEPT CCD-TR311/TR311E/TR411E
NIGHT SHOT MODEL:CCD-TR511E/TR512E/TR640E/TR730E/TR840E/TR845E
```

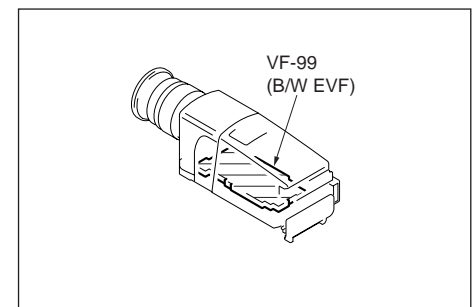
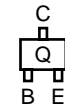




- **For Printed Wiring Boards.**
- This board is four-layer print board. However, the patterns of layers 2 to 3 have not been included in the diagram.

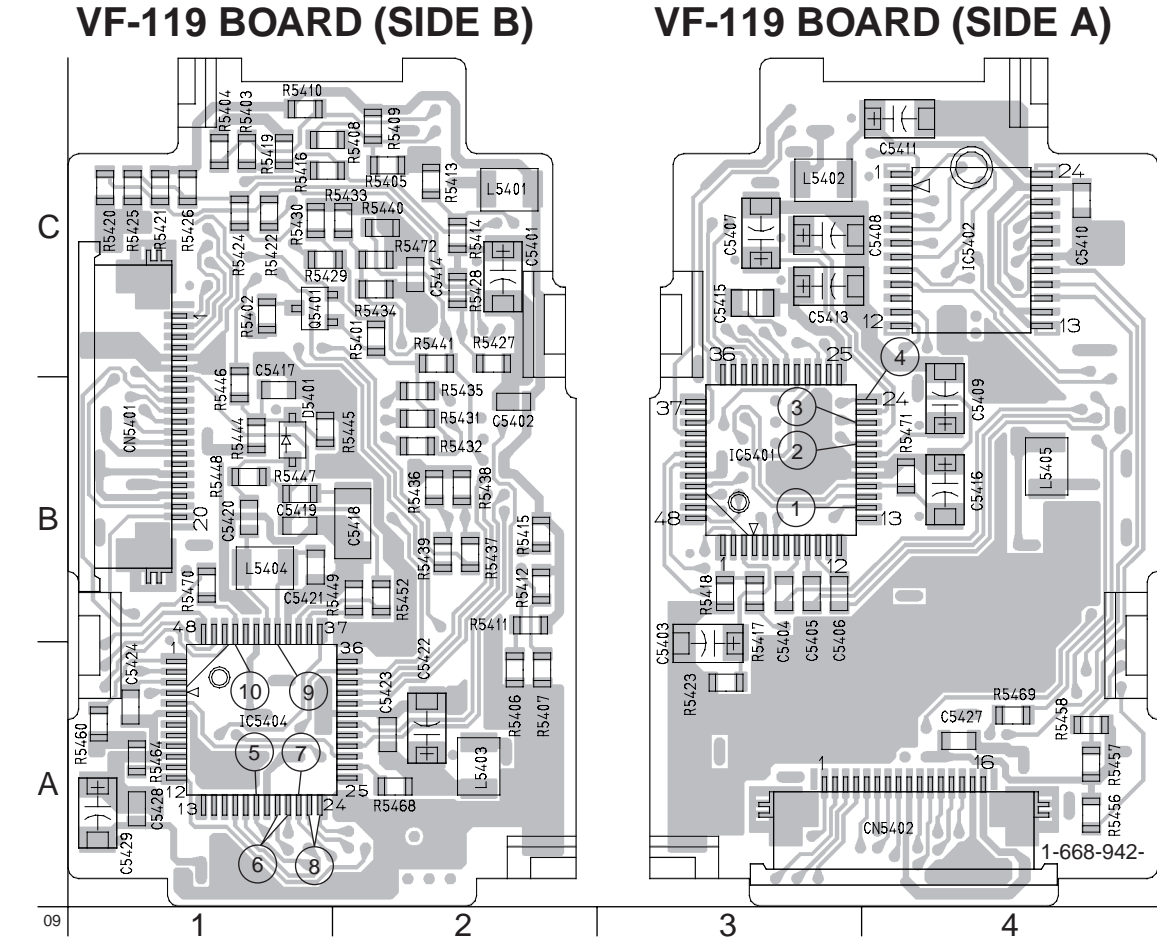
There are few cases that the part isn't mounted in this model is printed on this diagram.

- Chip transistor



VF-99 BOARD			
C901	D-3	R919	B-3
C902	C-3	R920	C-3
C903	C-1	R921	B-3
C904	C-1	R922	A-3
C905	D-3	R923	A-3
C906	D-1	R924	B-3
C907	D-2	R925	B-3
C908	D-3	R926	A-3
C909	C-3	R927	C-1
C910	B-3	R928	C-1
C911	A-3	R928	D-2
C912	B-3		
C913	D-1	RV903	A-2
C914	A-3	RV904	A-3
C915	A-3		
C916	B-3	T901	B-1
CN901	D-3	TH901	C-2
CN902	C-1	WH901	B-1
D901	D-1		
D903	A-3		
IC901	D-1		
L901	B-3		
L902	C-3		
L903	A-1		
Q901	C-3		
Q902	C-3		
Q903	C-3		
Q904	C-3		
R901	C-3		
R902	C-3		
R903	D-2		
R904	C-3		
R905	C-3		
R906	C-3		
R907	C-1		
R908	C-1		
R909	C-1		
R910	C-1		
R911	D-3		
R912	D-1		
R913	C-2		
R914	C-2		
R915	B-3		
R916	D-2		
R917	C-2		
R918	C-3		

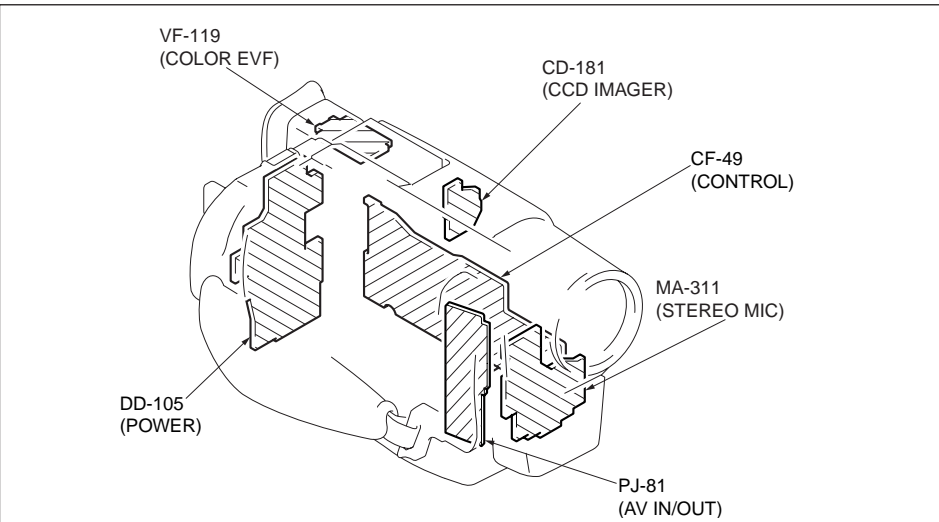
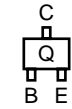
VF-119 (COLOR EVF (COLOR EVF MODEL)) PRINTED WIRING BOARD
- Ref No. VF-119 BOARD: 10,000 series -



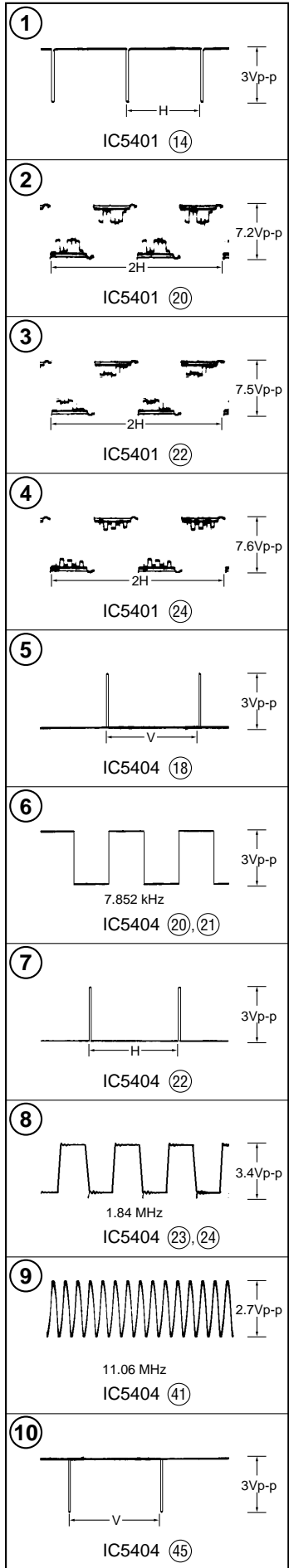
- For Printed Wiring Boards.
- This board is four-layer print board. However, the patterns of layers 2 to 3 have not been included in the diagram.

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

- Chip transistor

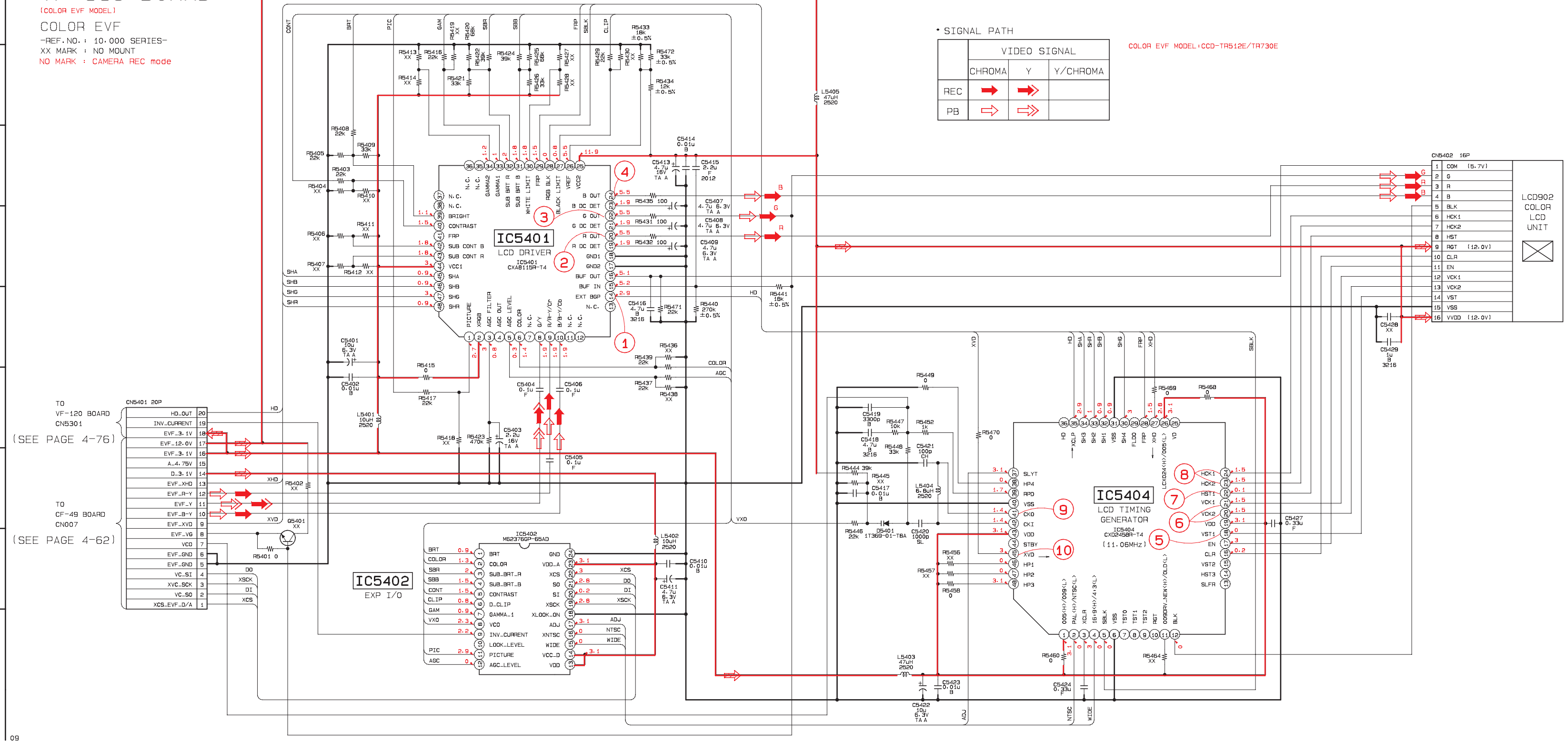


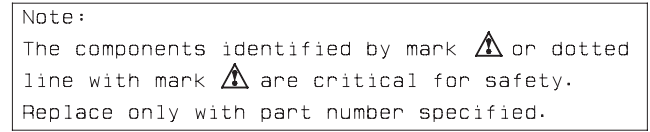
VF-119 BOARD
CAMERA REC



VF-119 BOARD

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





POWER
REF. NO.: 2,000 SERIES-

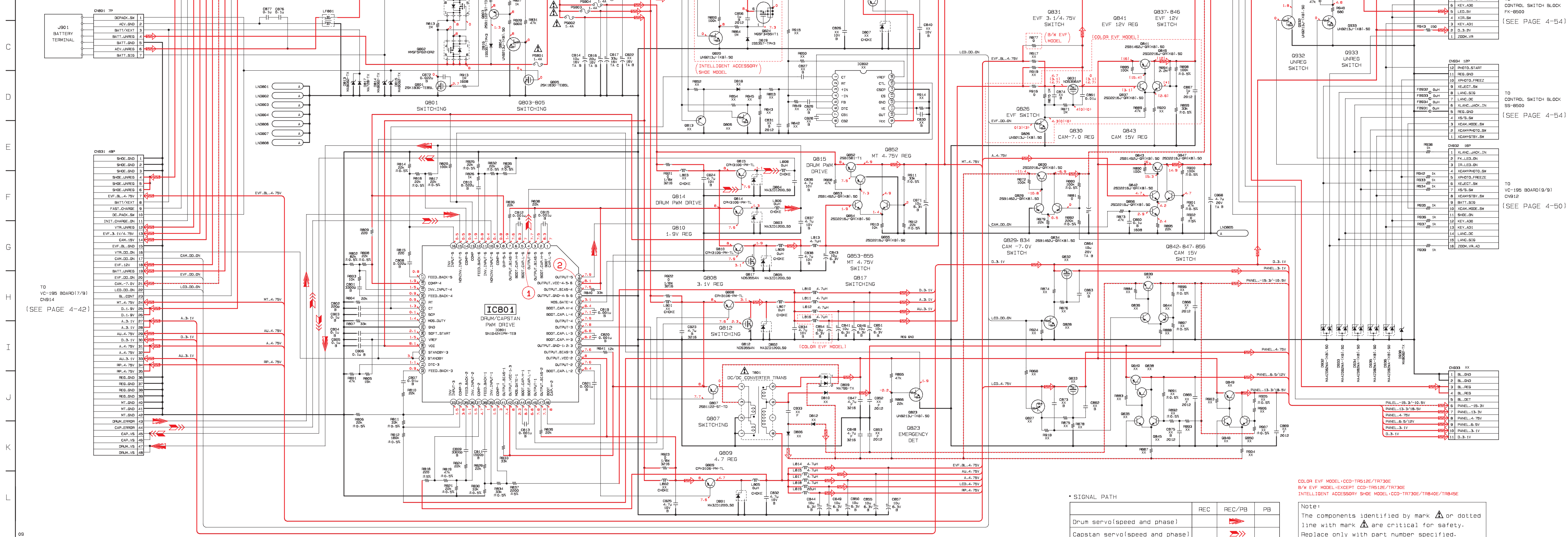
REF. NO. : 2.000 SERIES-
XX MARK : NO MOUNT

LED 5V
UNREG SWITCHING

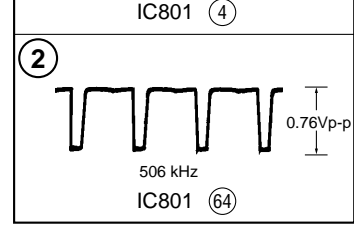
[illegible]

NO MARK : CAMERA REC mode
() : CAMERA REC mode(COLOR EVF ON)

< > : CAMERA REC mode[B/W EVF ON] MMSF5042D10R2 1/8M 1/8M (SHOE MODEL) 4.44 XX 1/8M L804 08/19 1.820 25B1462J-DM1K1.50 R841 1k







1



TO
CONTROL SWITCH BLOCK
SS-8500
(SEE PAGE 4-54)

TO
VC-195 BOARD(9/9)
CN912
(SEE PAGE 4-50)

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

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