

DSC-F505

SONY®

SERVICE MANUAL

Level 2

US Model
Canadian Model
AEP Model
UK Model
E Model
Hong Kong Model
Australian Model
Chinese Model
Korea Model
Tourist Model

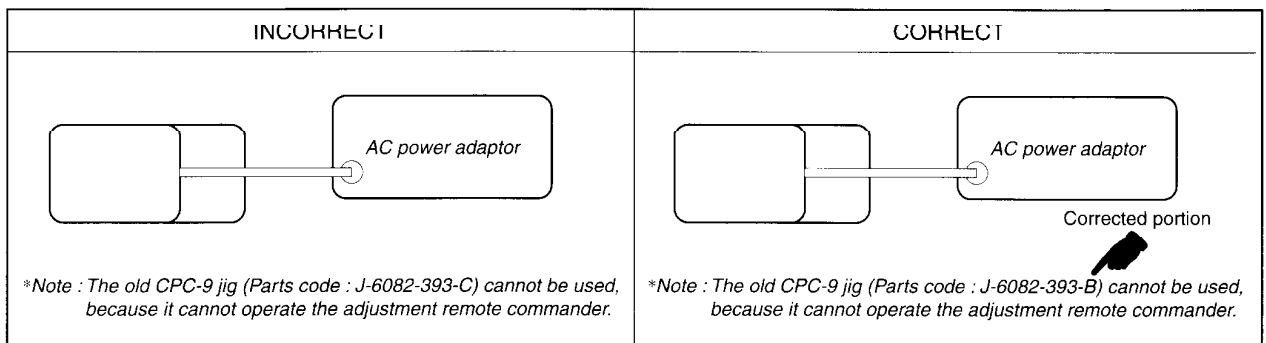
CORRECTION-1

Please correct your Service manual.

CORRECTION OF THE 3. BLOCK DIAGRAMS
4. PRINTED WIRING BOARDS AND
SCHEMATIC DIAGRAMS
5. ADJUSTMENTS

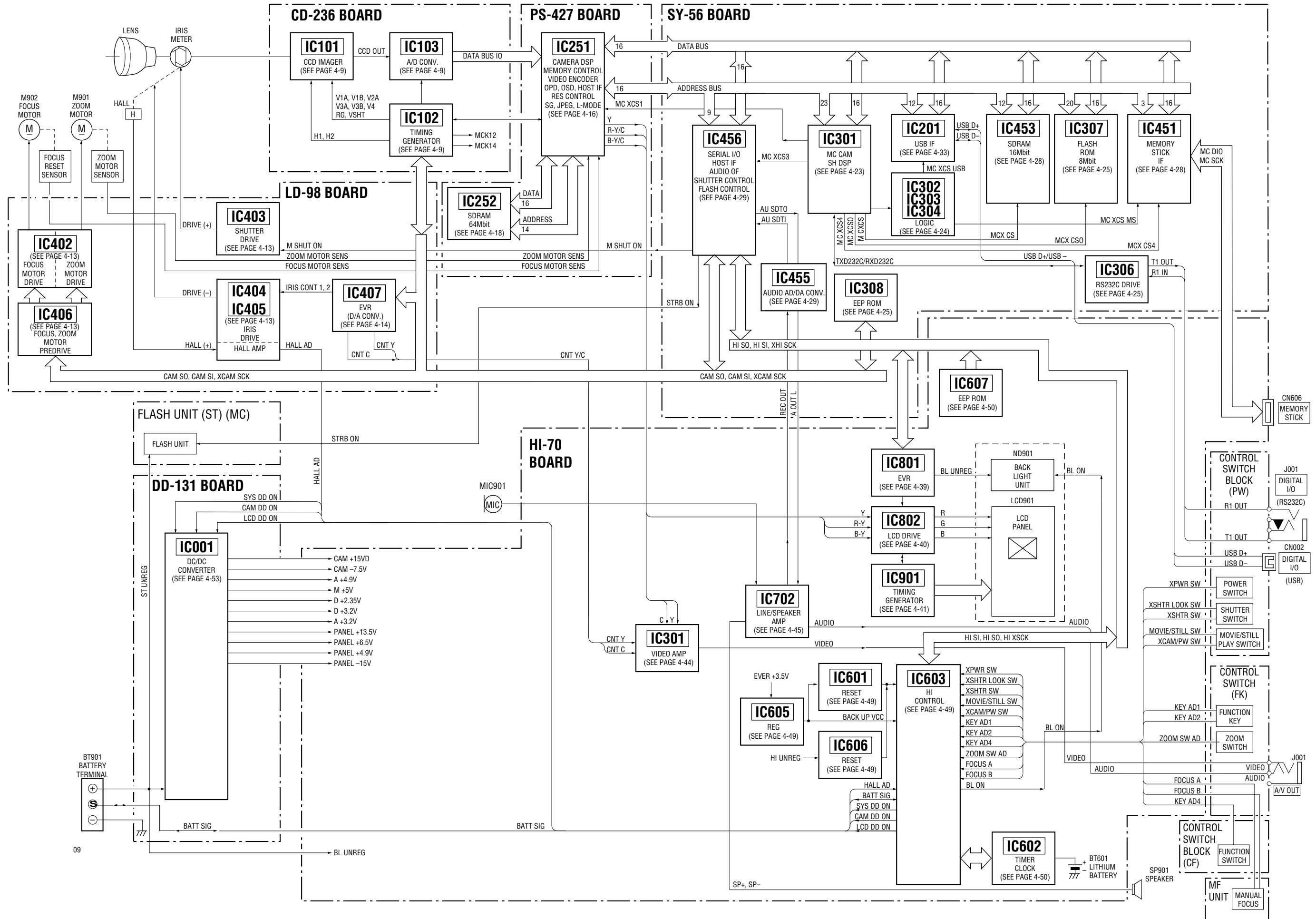
Page 5-5

Fig. 5-1-5



SECTION 3 BLOCK DIAGRAMS

3-1. OVERALL BLOCK DIAGRAM

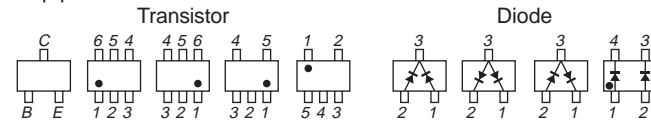


SECTION 4 PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

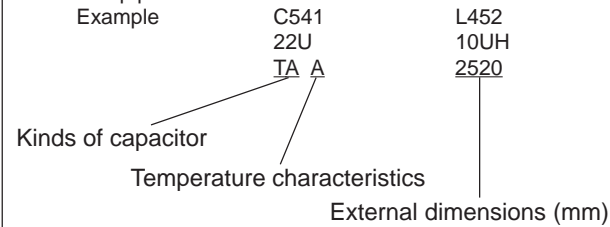
(For printed wiring boards)

- Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- 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. $\text{pF} : \mu\mu\text{F}$. 50V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10W unless otherwise noted. $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$.
- 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.



- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with \star 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 \rightarrow EDIT PB/XREC \rightarrow 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. *
- * Indicated by the color red.

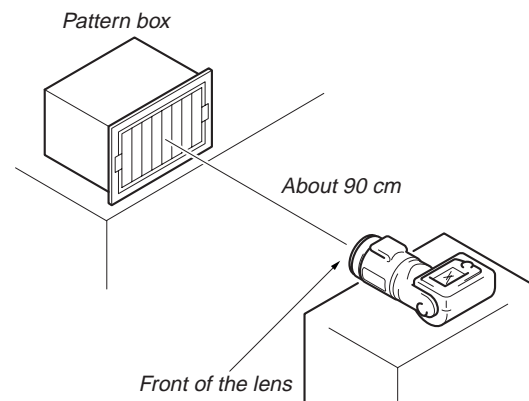
Note :
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

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

(Measuring conditions voltage and waveform)

- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
(VOM of DC 10 M Ω input impedance is used.)
- Voltage values change depending upon input impedance of VOM used.)

1. Connection



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

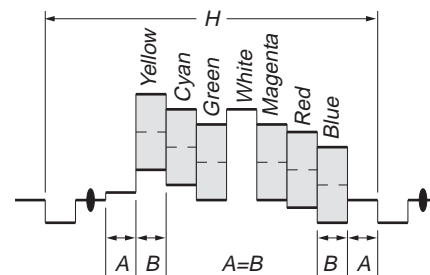


Fig. a (Video output terminal output waveform)

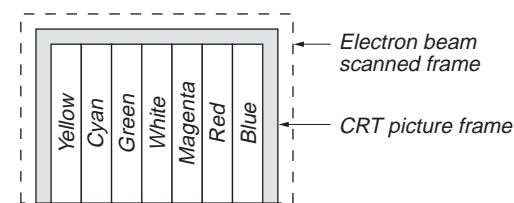
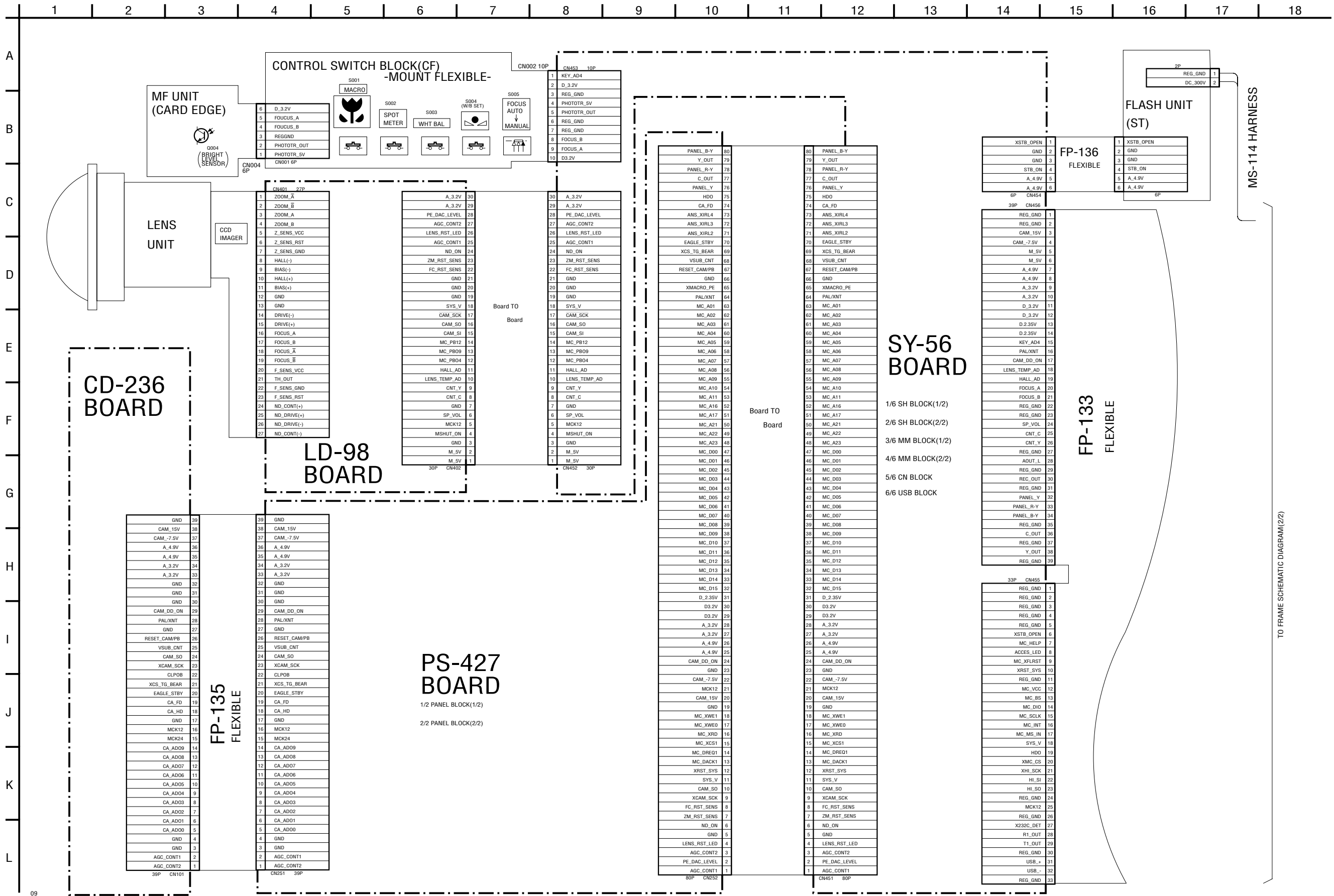


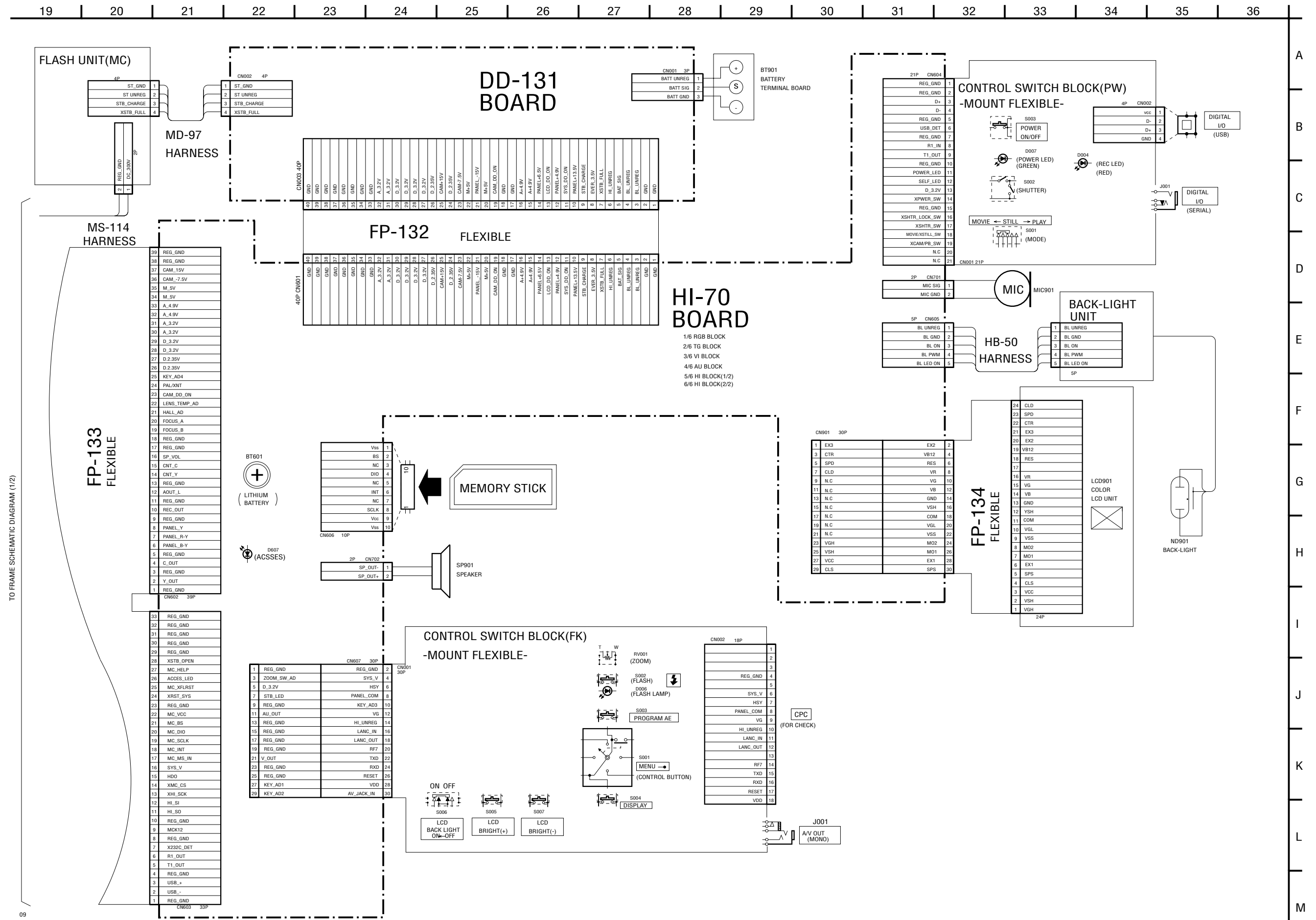
Fig. b (Picture on monitor TV)

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

4-1. FRAME SCHEMATIC DIAGRAM (1)



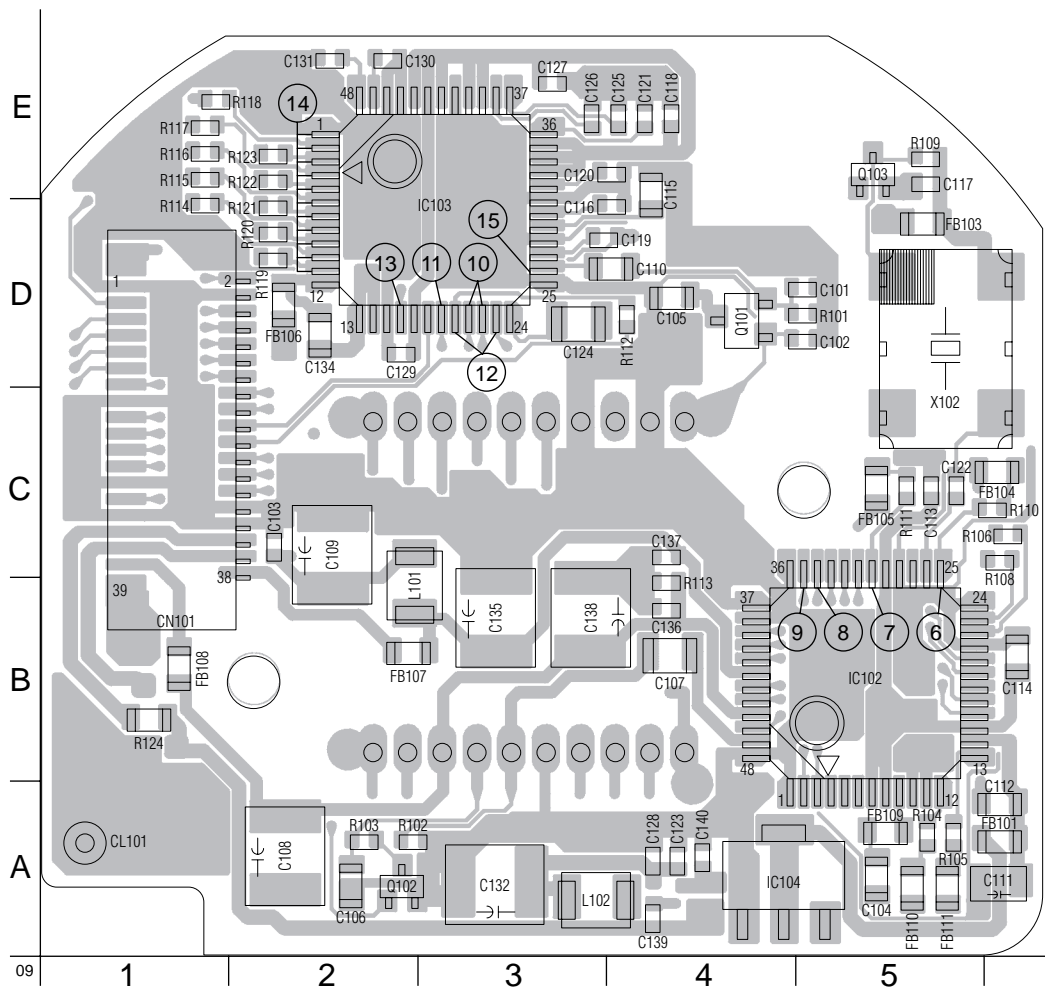
FRAME SCHEMATIC DIAGRAM (2)



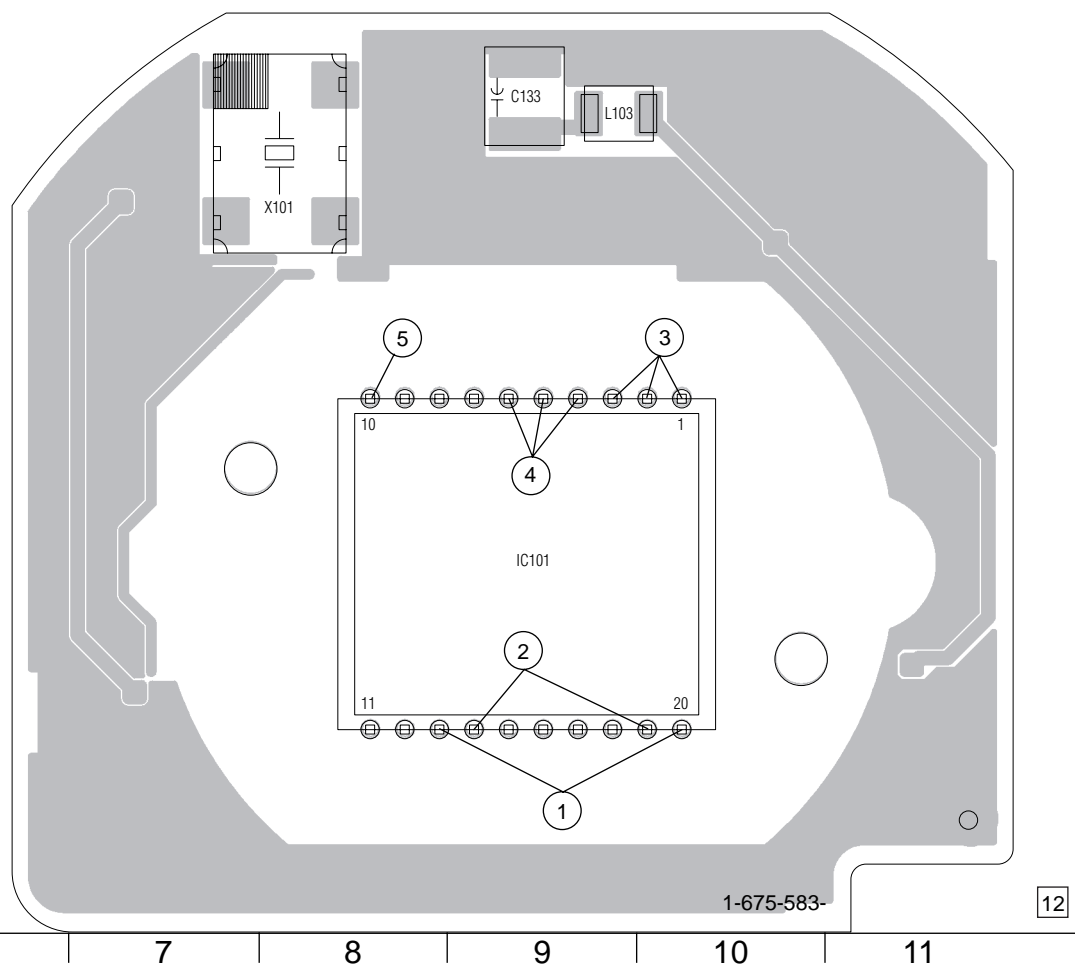
TO FRAME SCHEMATIC DIAGRAM (1/2)

4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

CD-236 BOARD (SIDE A)



CD-236 BOARD (SIDE B)



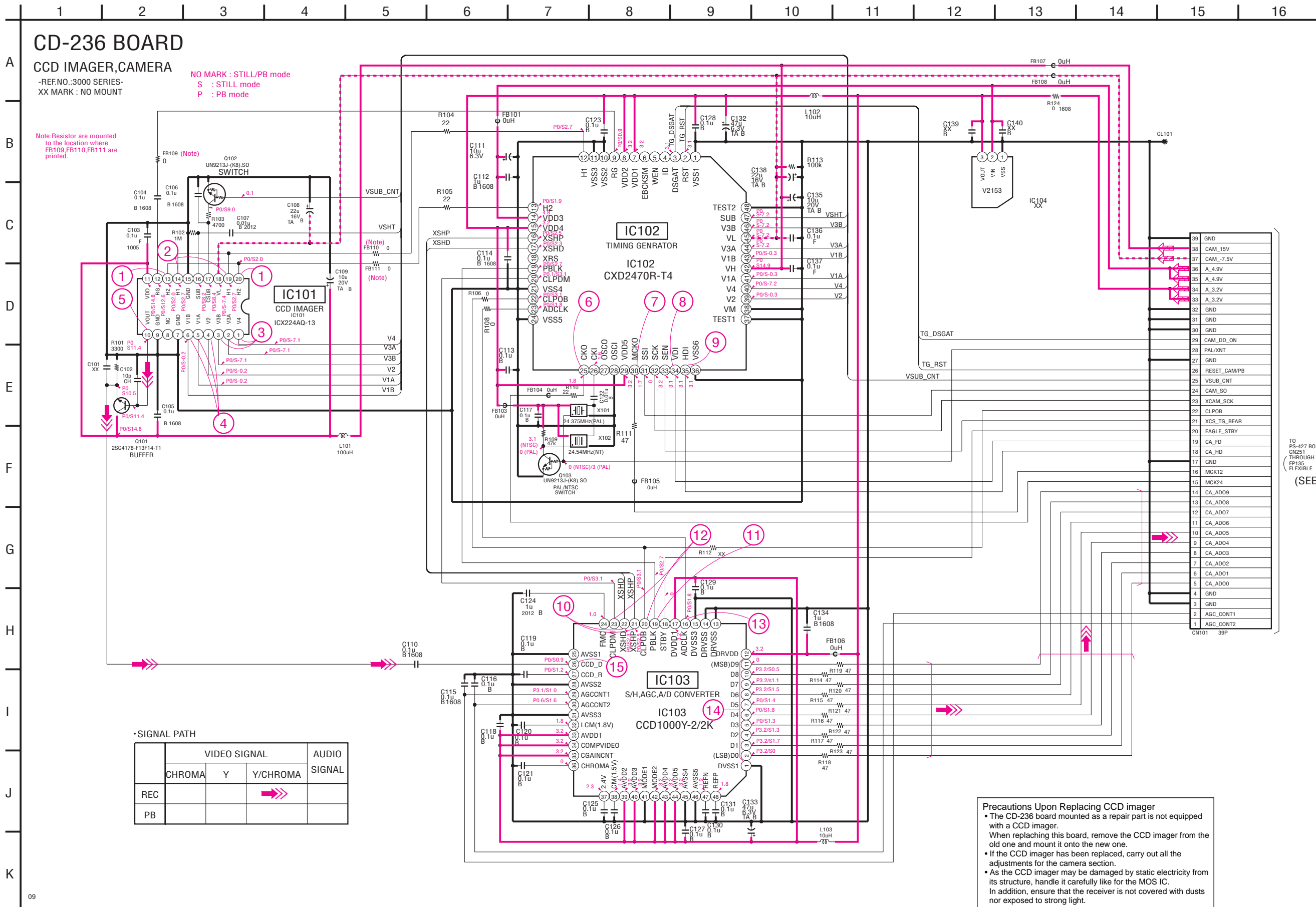
For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

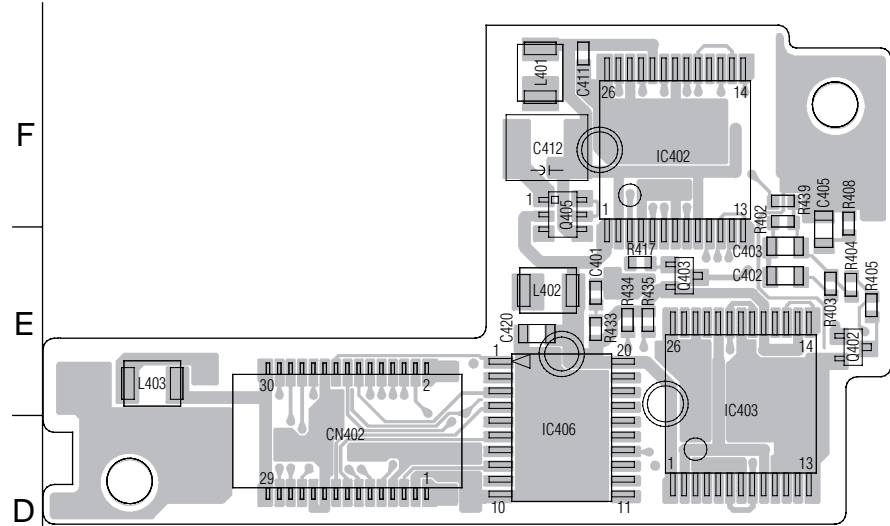
Transistor



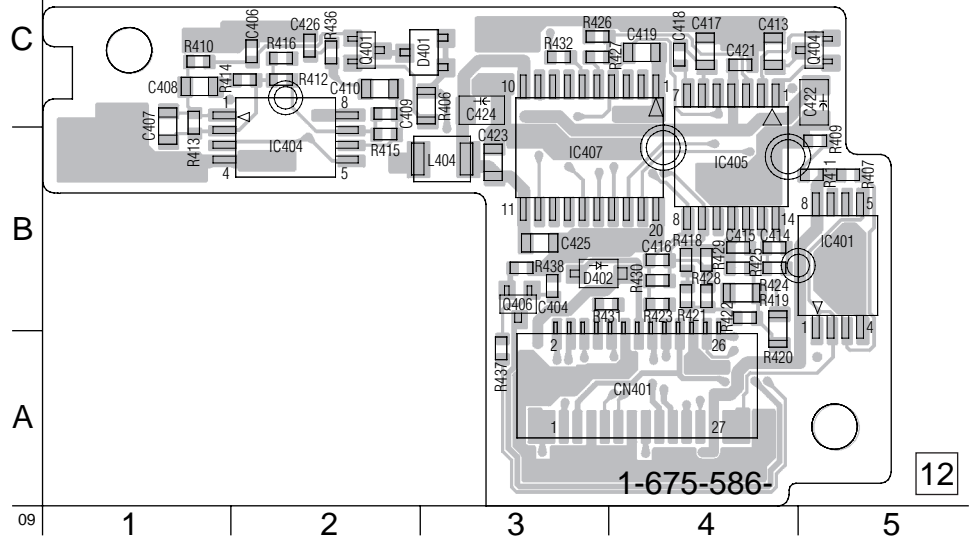
There are few cases that the part printed on this diagram isn't mounted in this model.



LD-98 BOARD (SIDE A)

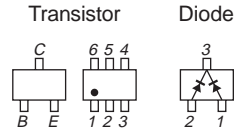


LD-98 BOARD (SIDE B)

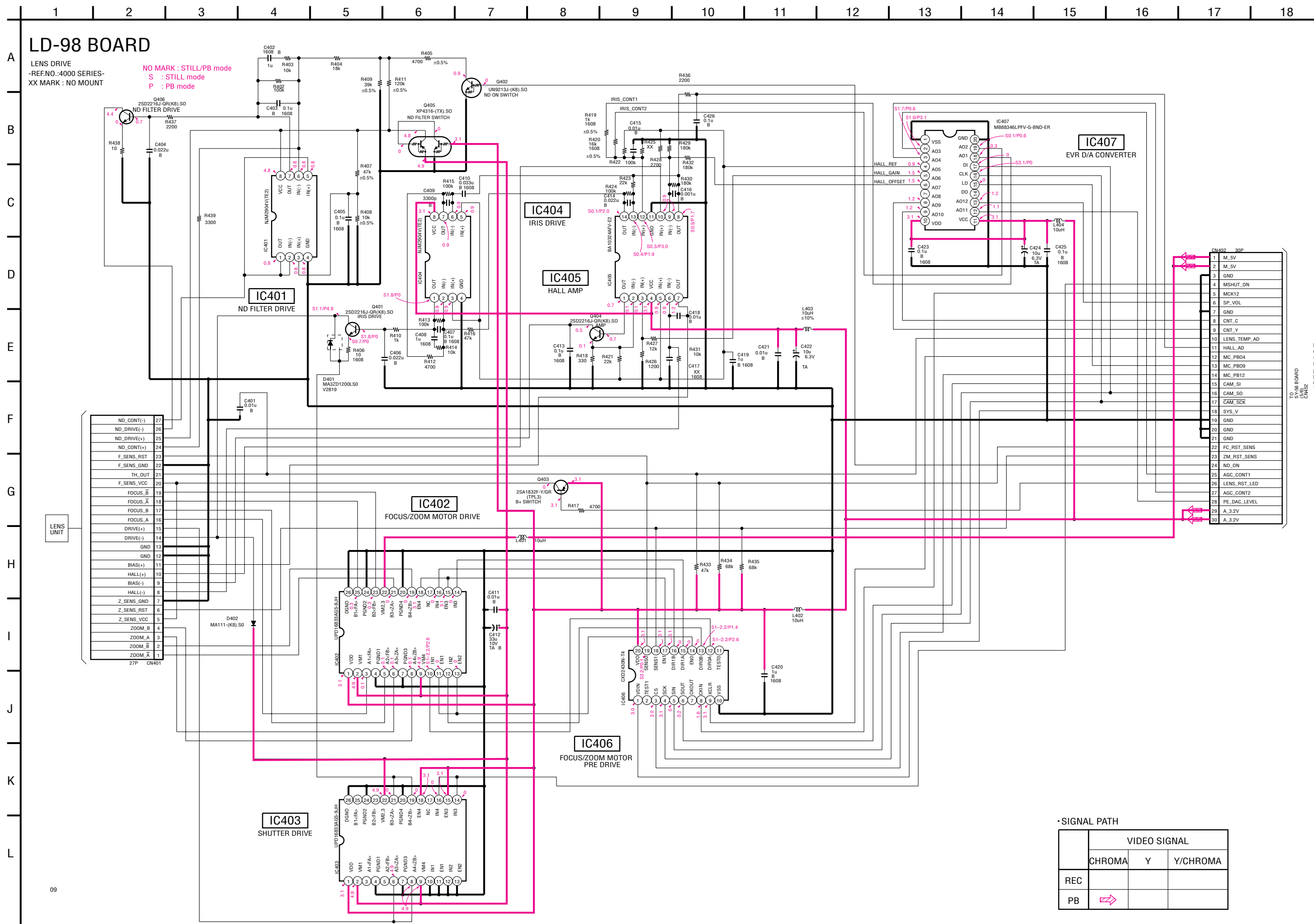


For printed wiring boards

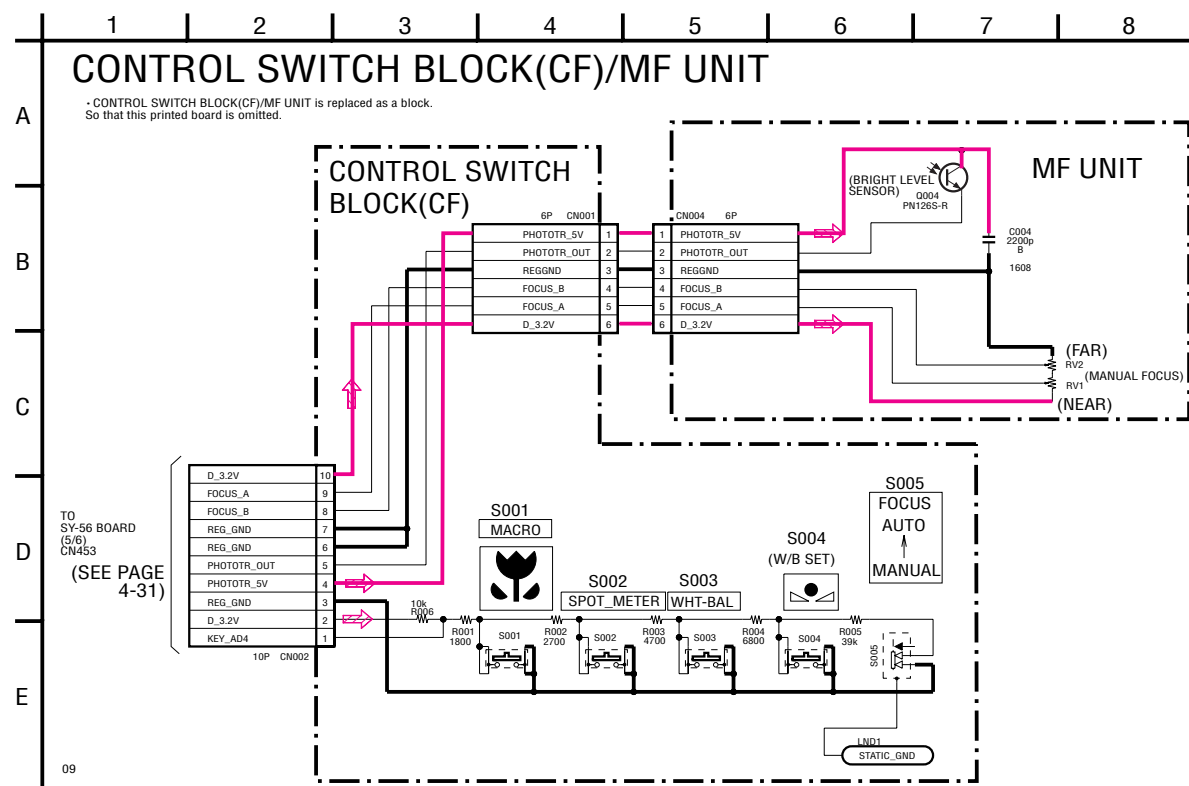
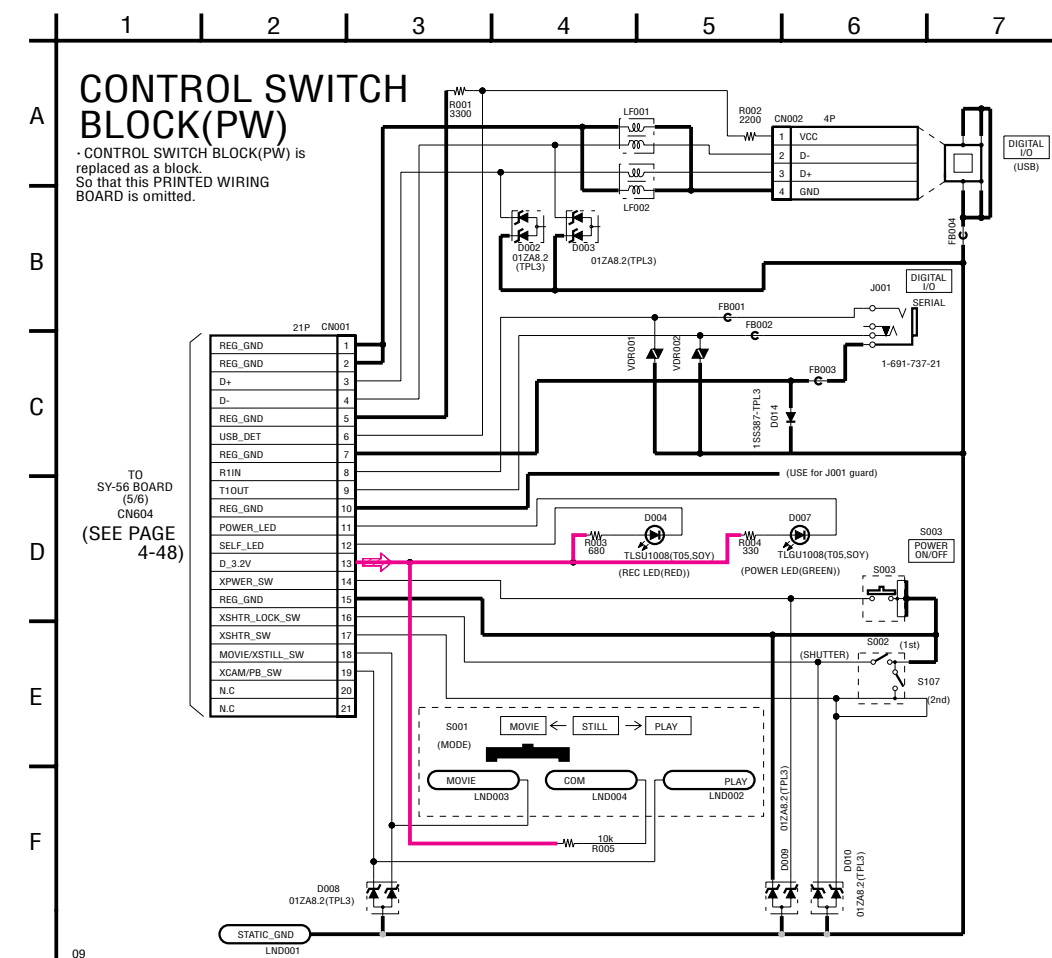
- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts



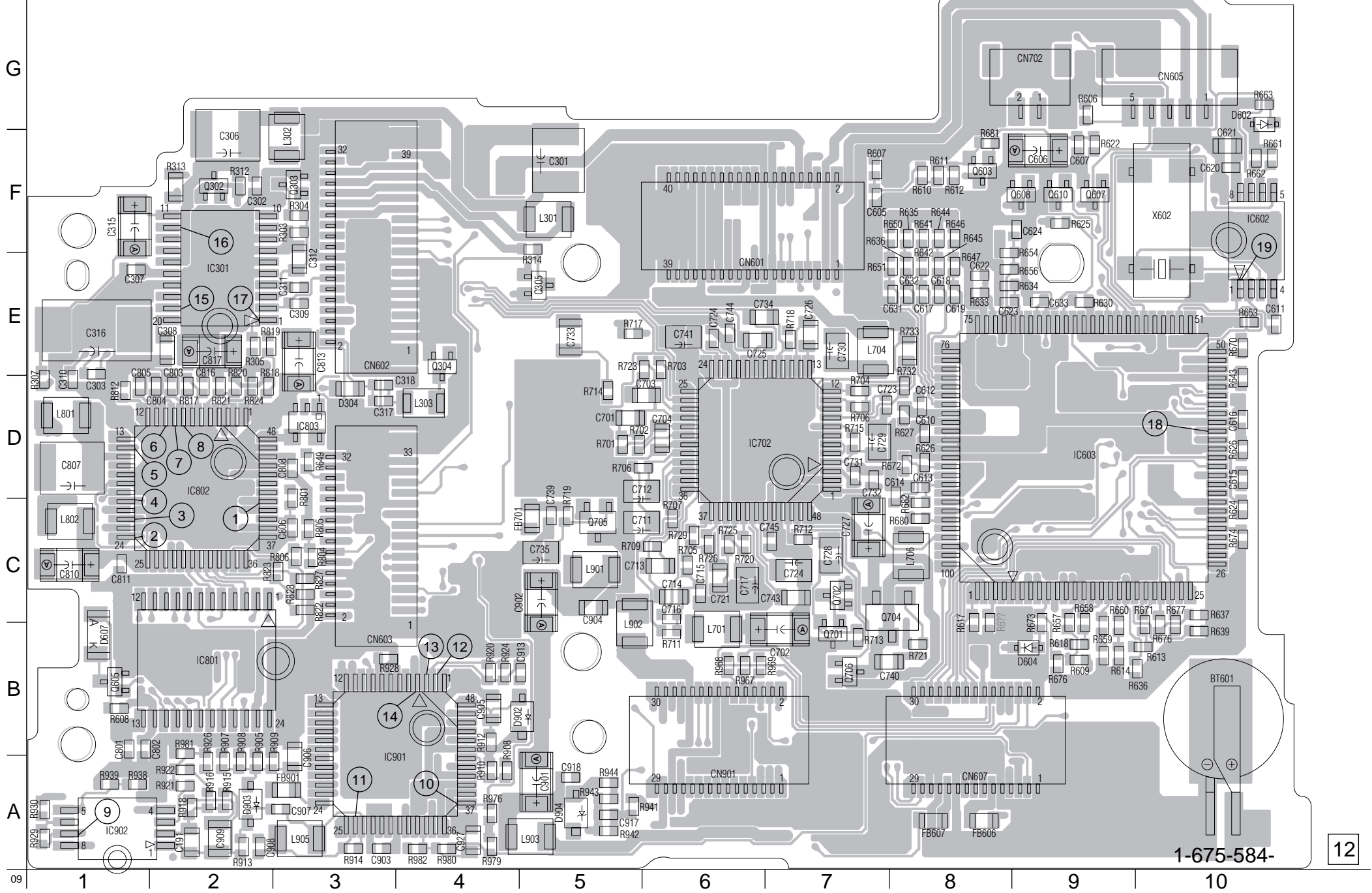
There are few cases that the part printed on this diagram isn't mounted in this model.



(SEE PAGE 4-32)



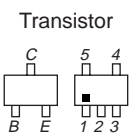
HI-70 BOARD (SIDE A)

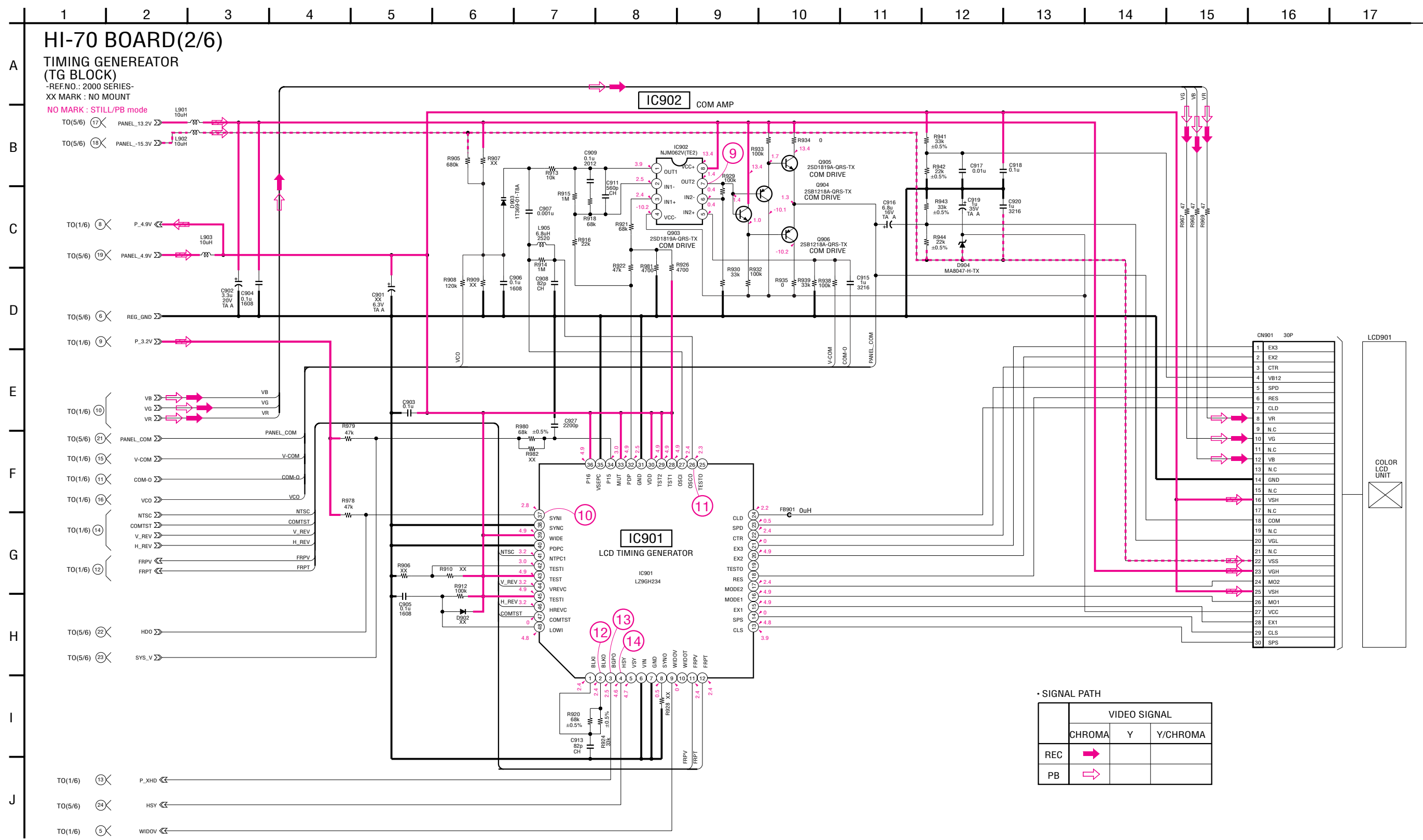


For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

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





• SIGNAL PATH

	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC	→		
PB	→		

09

HI-70 BOARD(3/6)

VIDEO(VI BLOCK)

-REF.NO.:2000 SERIES-
XX MARK : NO MOUNT

NO MARK : STILL/PB mode

S : STILL mode

P : PB mode

· SIGNAL PATH

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

A

B

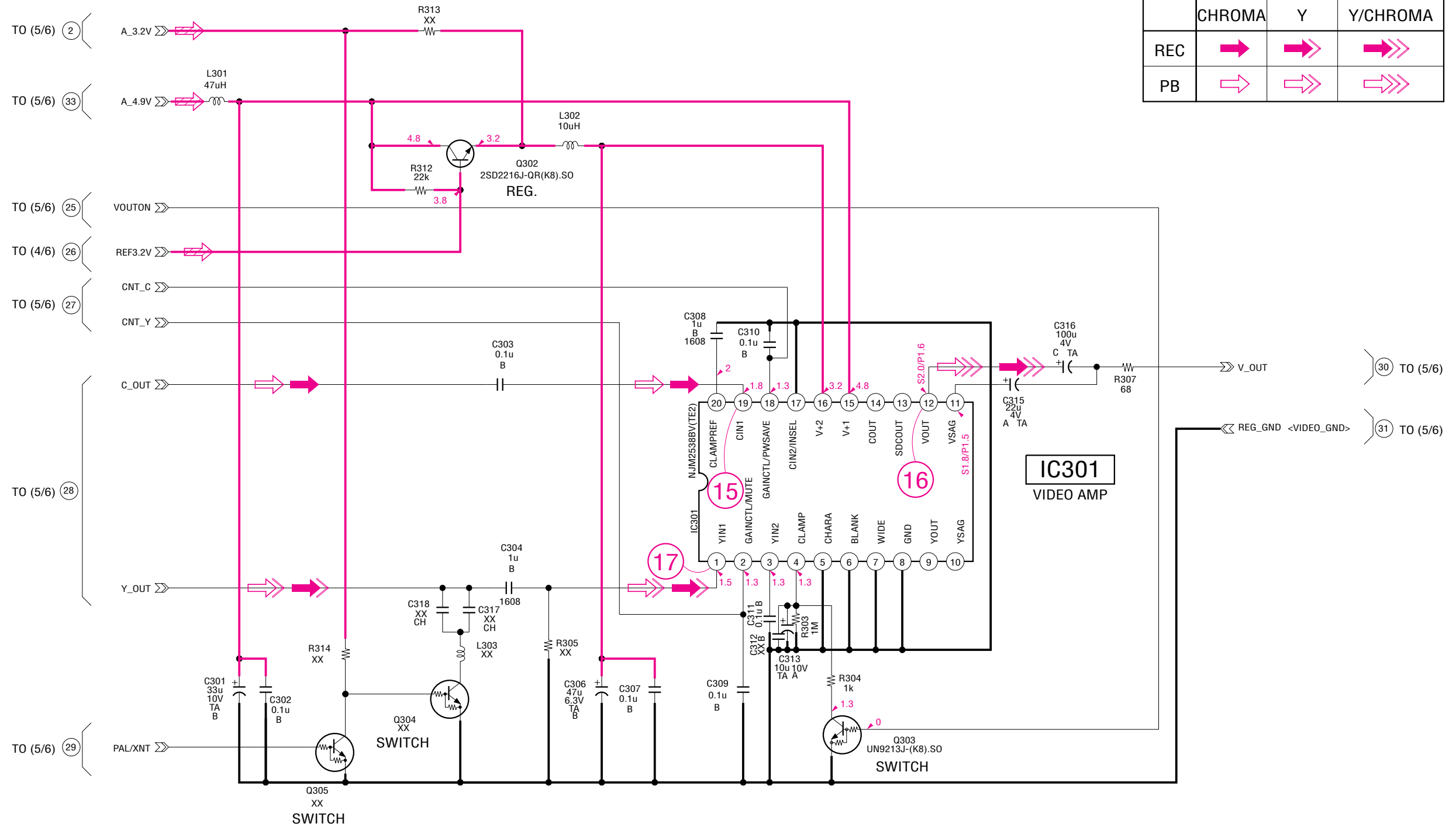
C

D

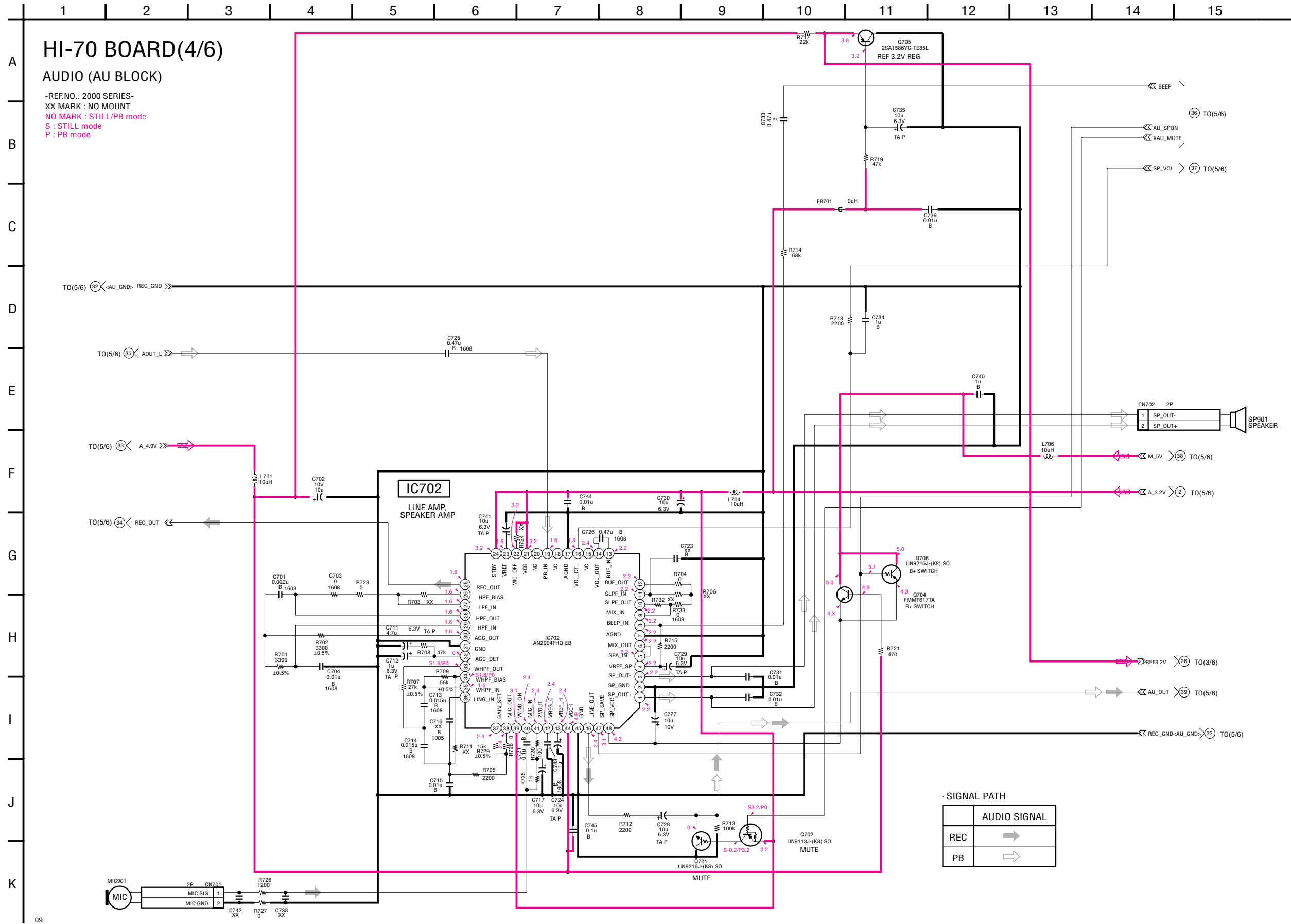
E

F

G



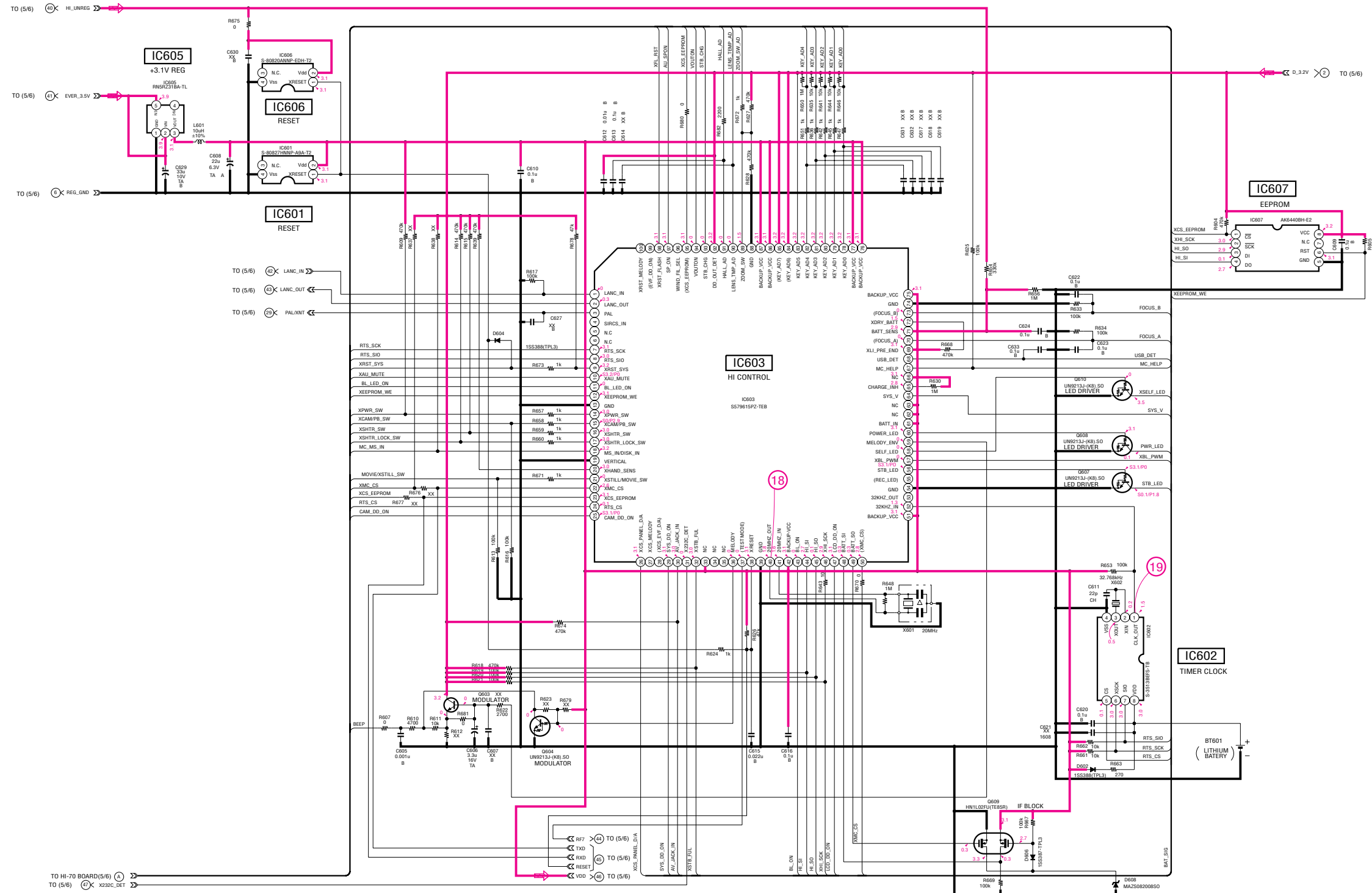
09



18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37

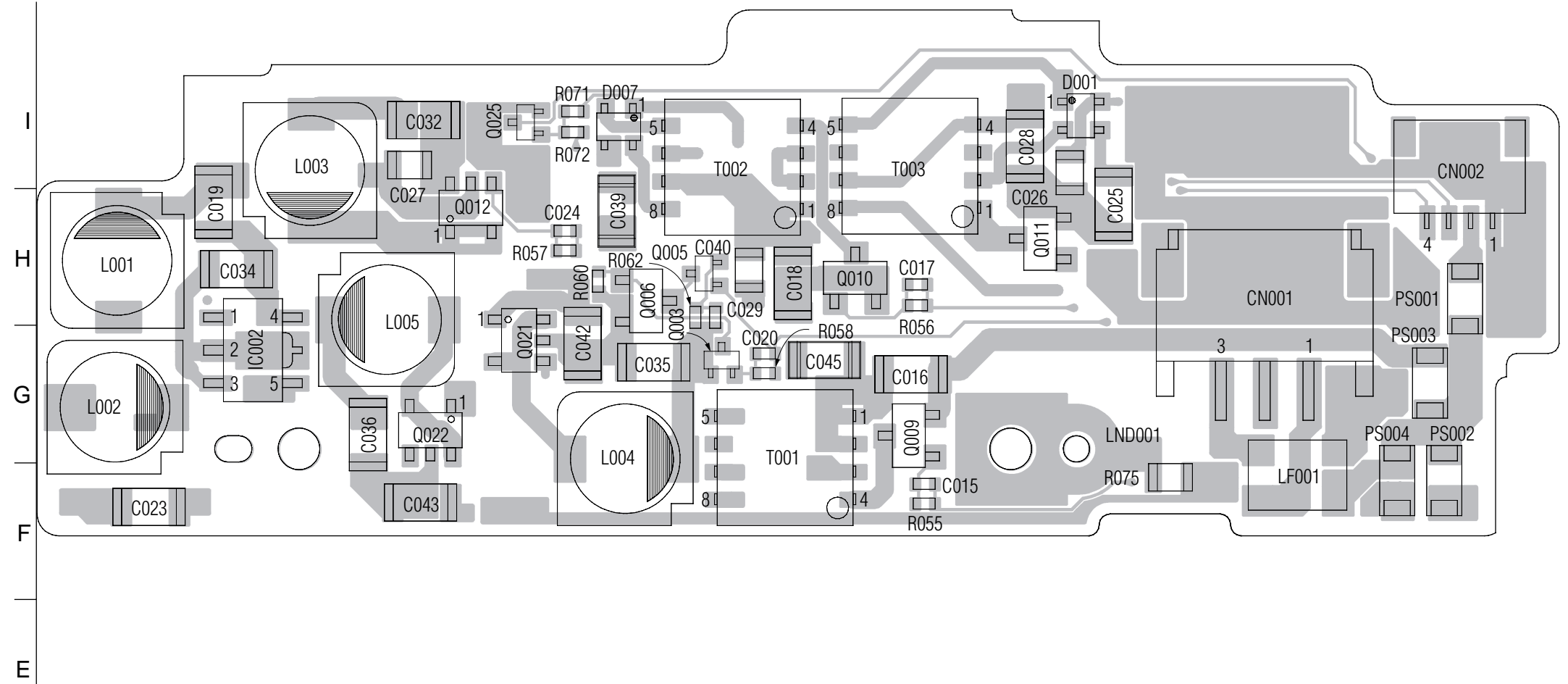
HI-70 BOARD(6/6) HICONTR (HI-BLOCK(2/2))

-REF.NO.: 2000 SERIES-
XX MARK : NO MOUNT
S : STILL mode
P : PB mode

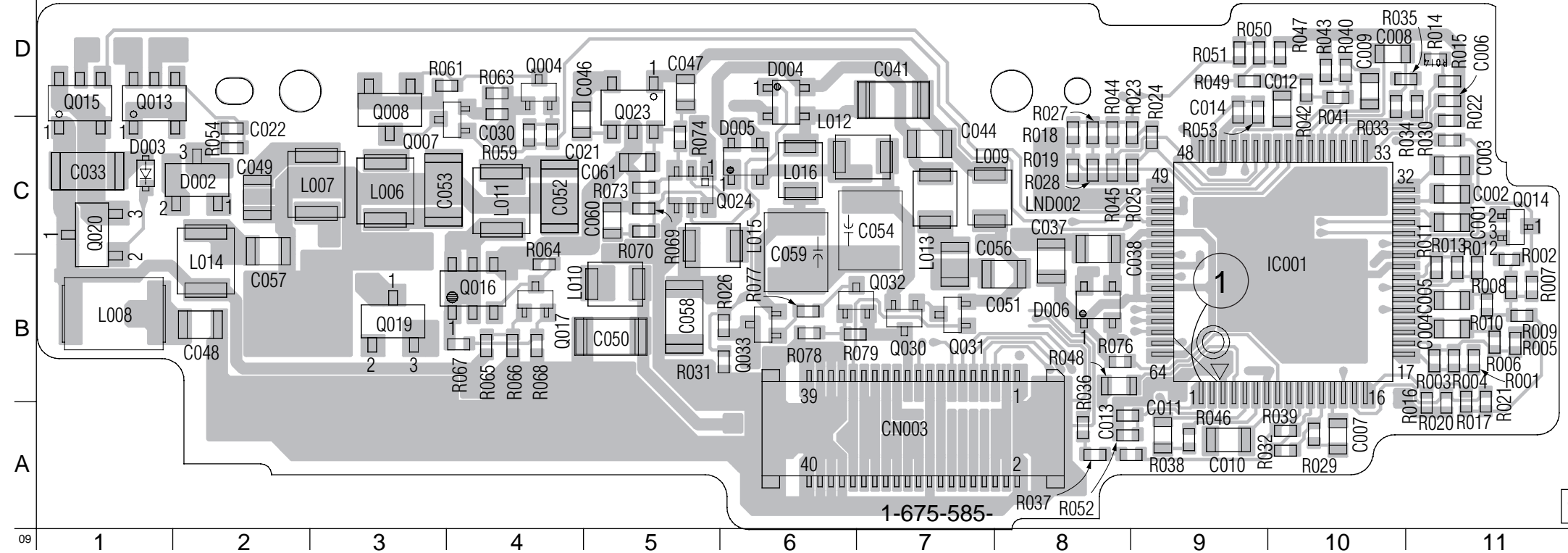


A
B
C
D
E
F
G
H
I
J
K
L
M

DD-131 BOARD (SIDE A)

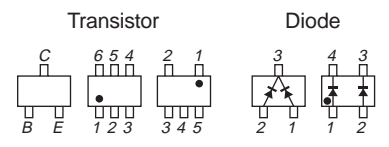


DD-131 BOARD (SIDE B)

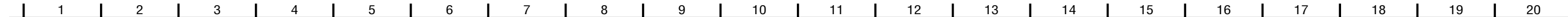


For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

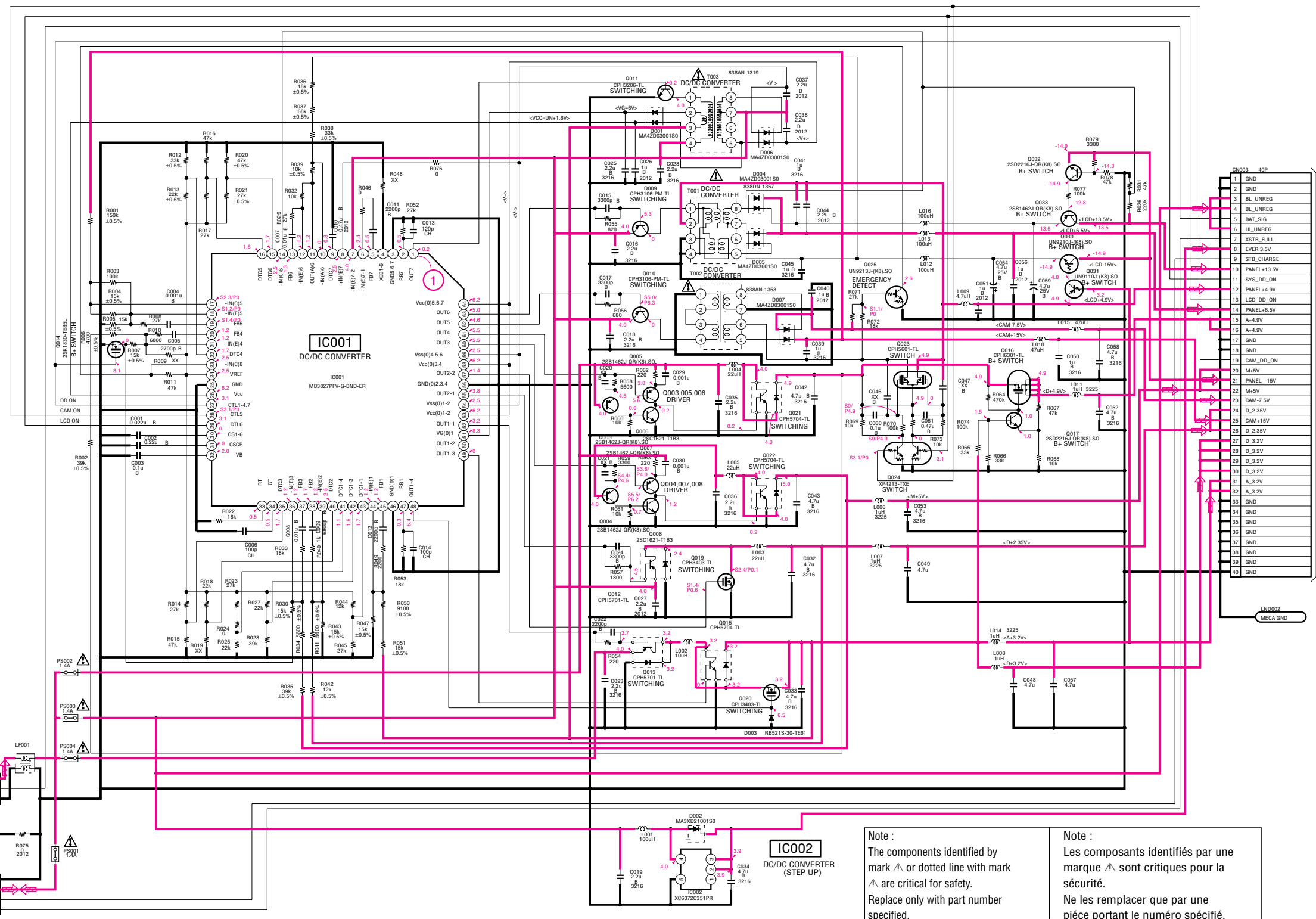


There are few cases that the part printed on this diagram isn't mounted in this model.



DD-131 BOARD
DC/DC CONVERTER(DD BLOCK)

-REF.NO.:2000 SERIES-
XX MARK : NO MOUNT
NO MARK : STILL PB mode
S : STILL mode
P : PB mode



TO HI-70 BOARD (5/6) CN601 (THROUGH THE FP132 FLEXIBLE) (SEE PAGE 4-48)

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

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

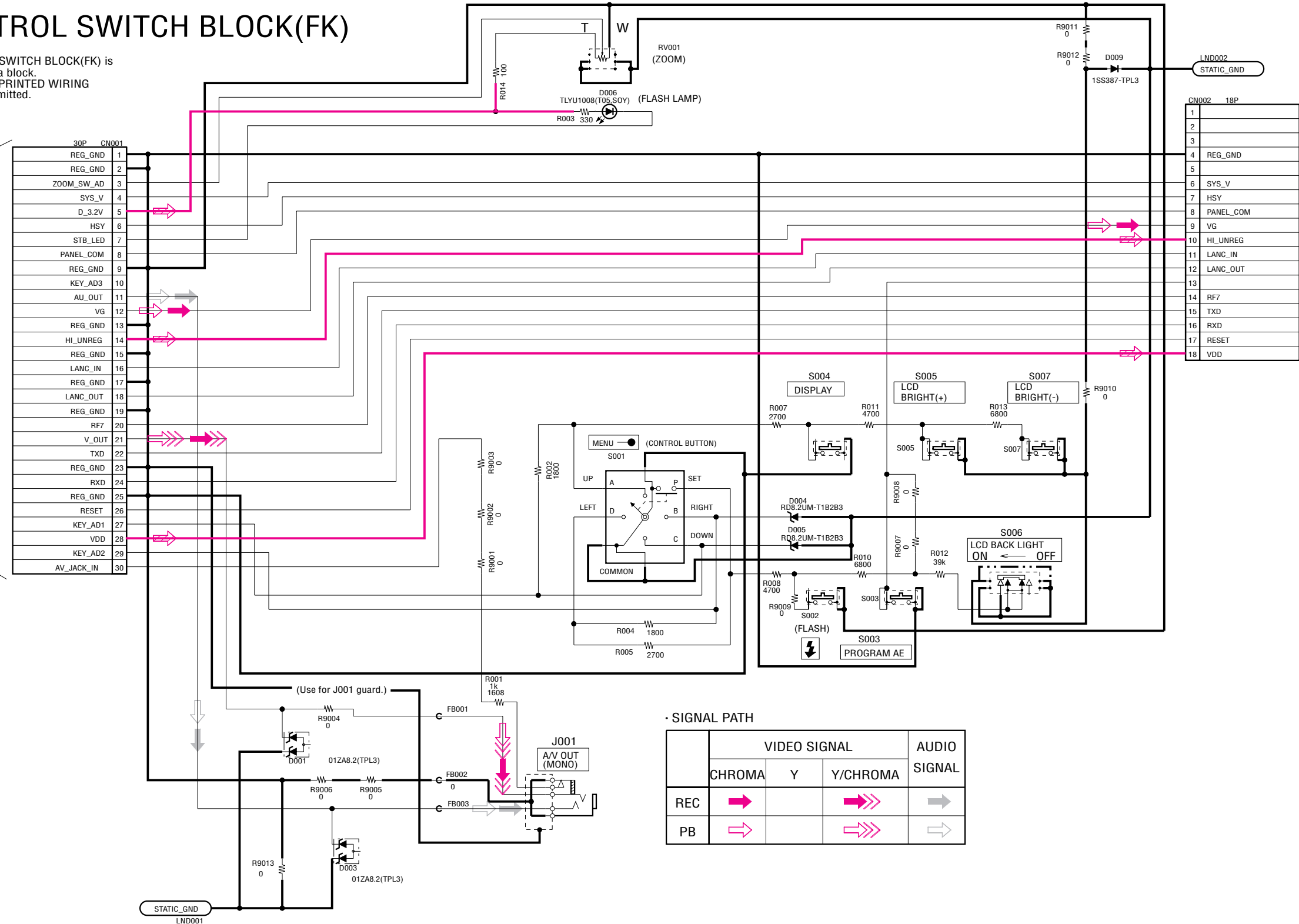
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14

A
B
C
D
E
F
G
H
I

CONTROL SWITCH BLOCK(FK)

· CONTROL SWITCH BLOCK(FK) is replaced as a block. So that this PRINTED WIRING BOARD is omitted.

TO HI-70 BOARD (5/6) CN607 (SEE PAGE 4-47)



CPC (FOR CHECK)

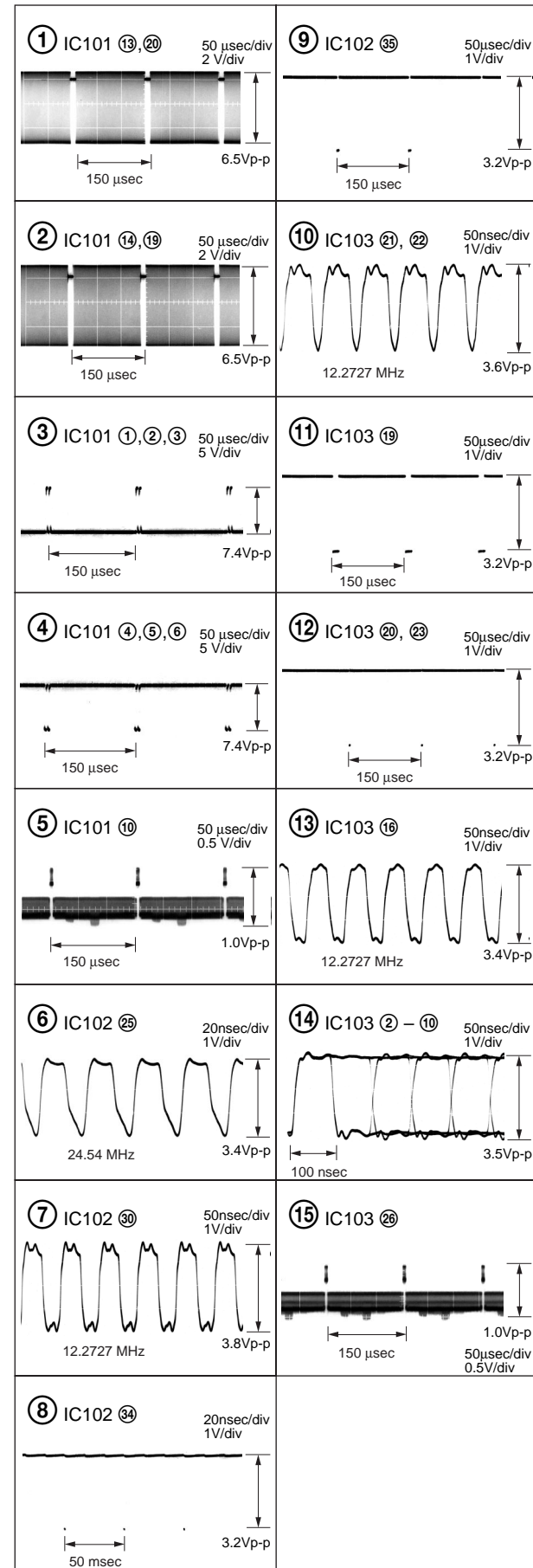
· SIGNAL PATH

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

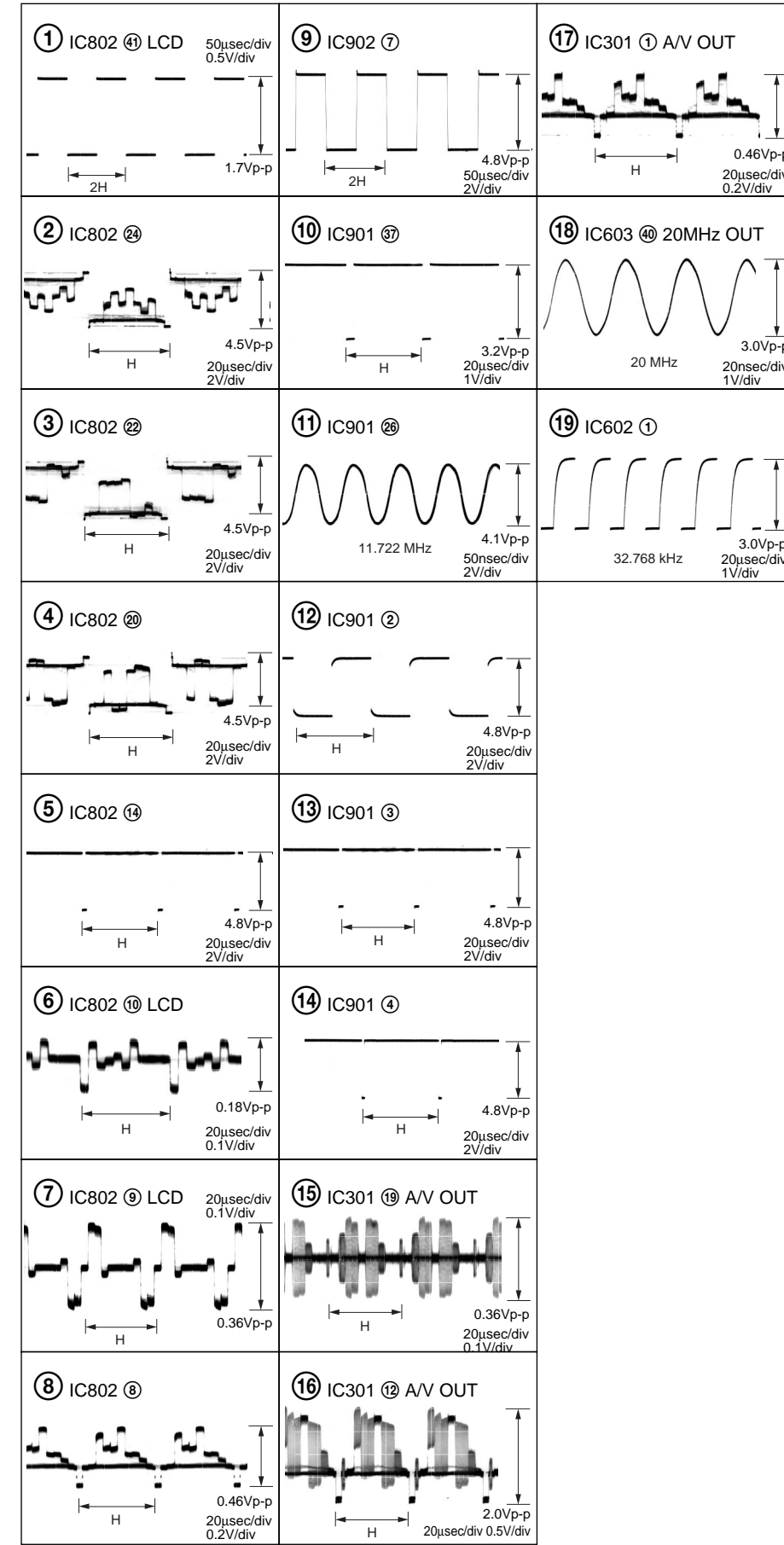
09

4-3. WAVEFORMS

CD-236 BOARD



HI-70 BOARD



DD-131 BOARD

