

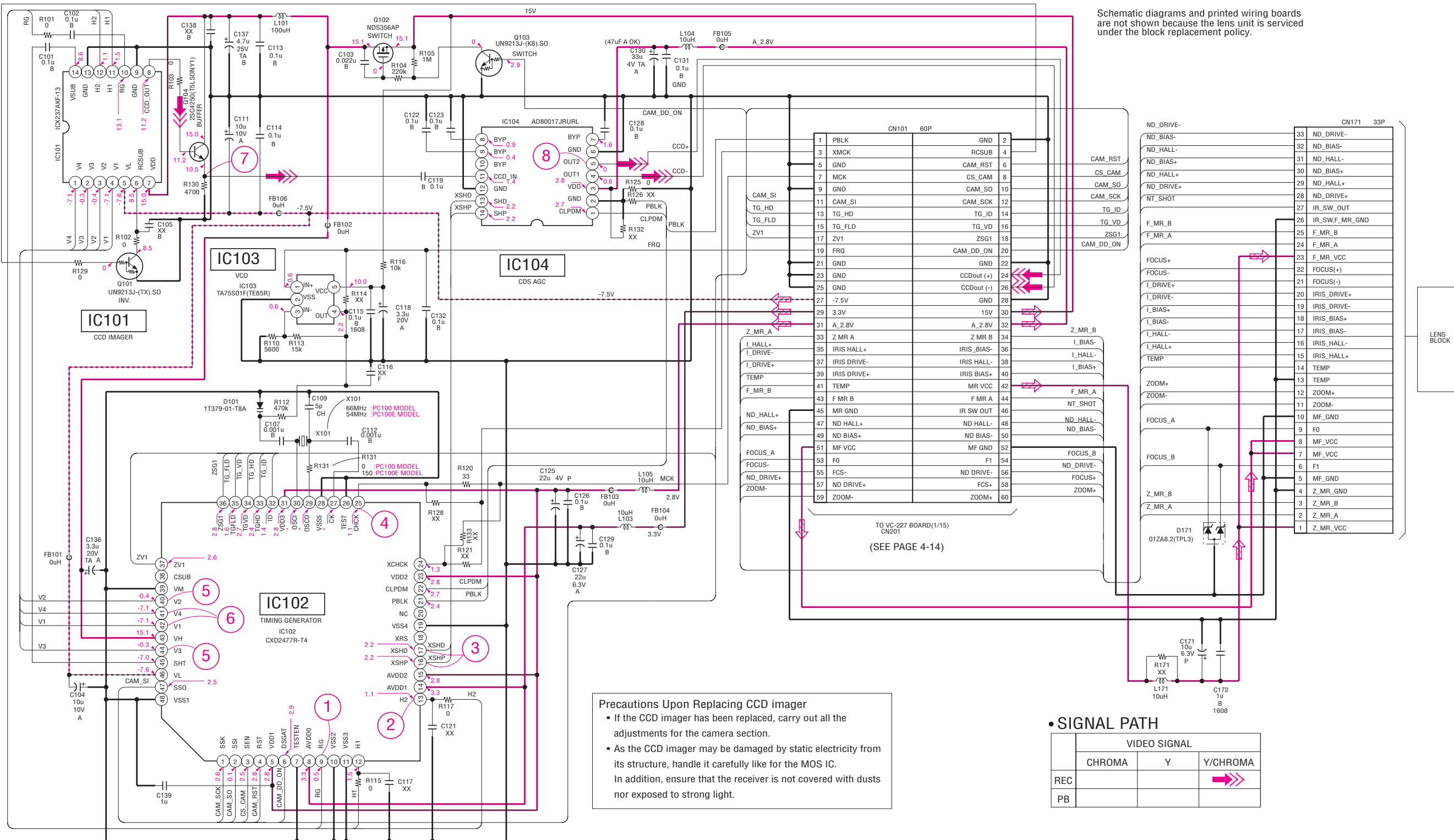
For Schematic Diagram
 • Refer to page 4-7 for printed wiring board.
 • Refer to page 4-87 for waveforms.

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

A
B
C
D
E
F
G
H
I
J

CD-234 BOARD
CCD IMAGER
 -REF.NO.:4000 SERIES-
 XX MARK:NO MOUNT

NO MARK:REC/PB MODE



Schematic diagrams and printed wiring boards are not shown because the lens unit is serviced under the block replacement policy.

Precautions Upon Replacing CCD imager

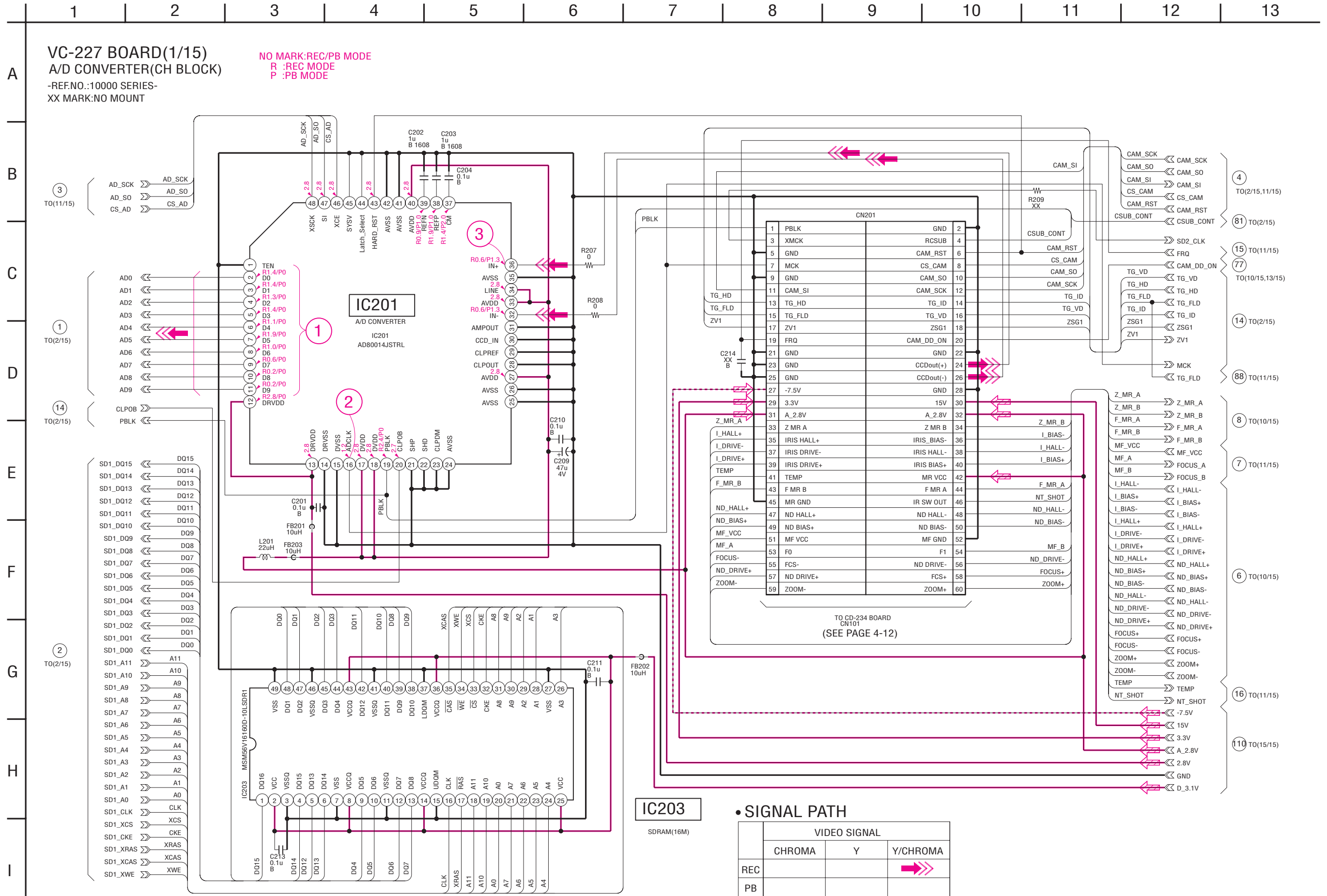
- If the CCD imager has been replaced, carry out all the adjustments for the camera section.
- As the CCD imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC. In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

• SIGNAL PATH

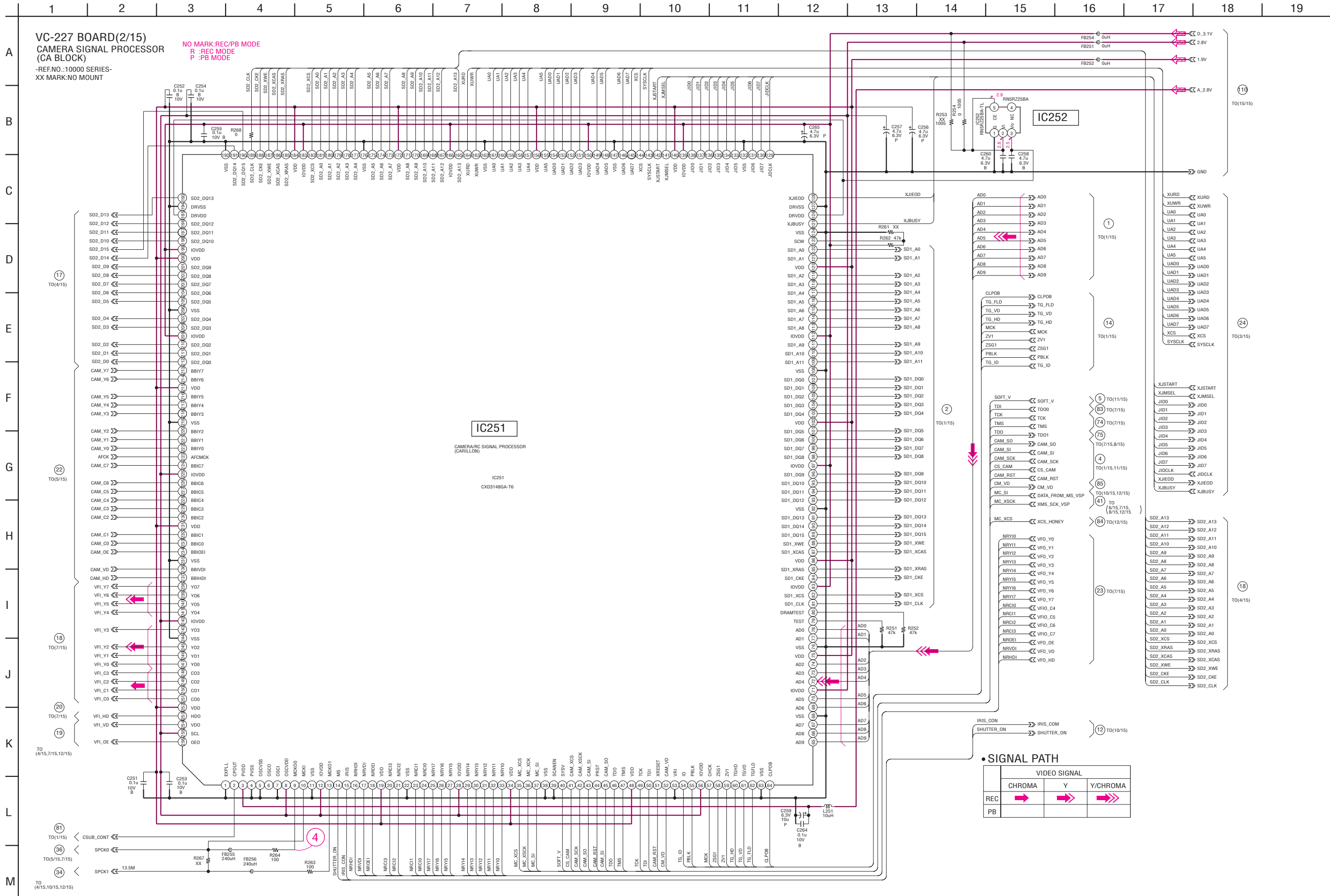
	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC			➡➡➡
PB			

For Schematic Diagram

- Refer to page 4-43 for printed wiring board.
- Refer to page 4-87 for waveforms.



For Schematic Diagram
 • Refer to page 4-43 for printed wiring board.
 • Refer to page 4-87 for waveform.



• SIGNAL PATH

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

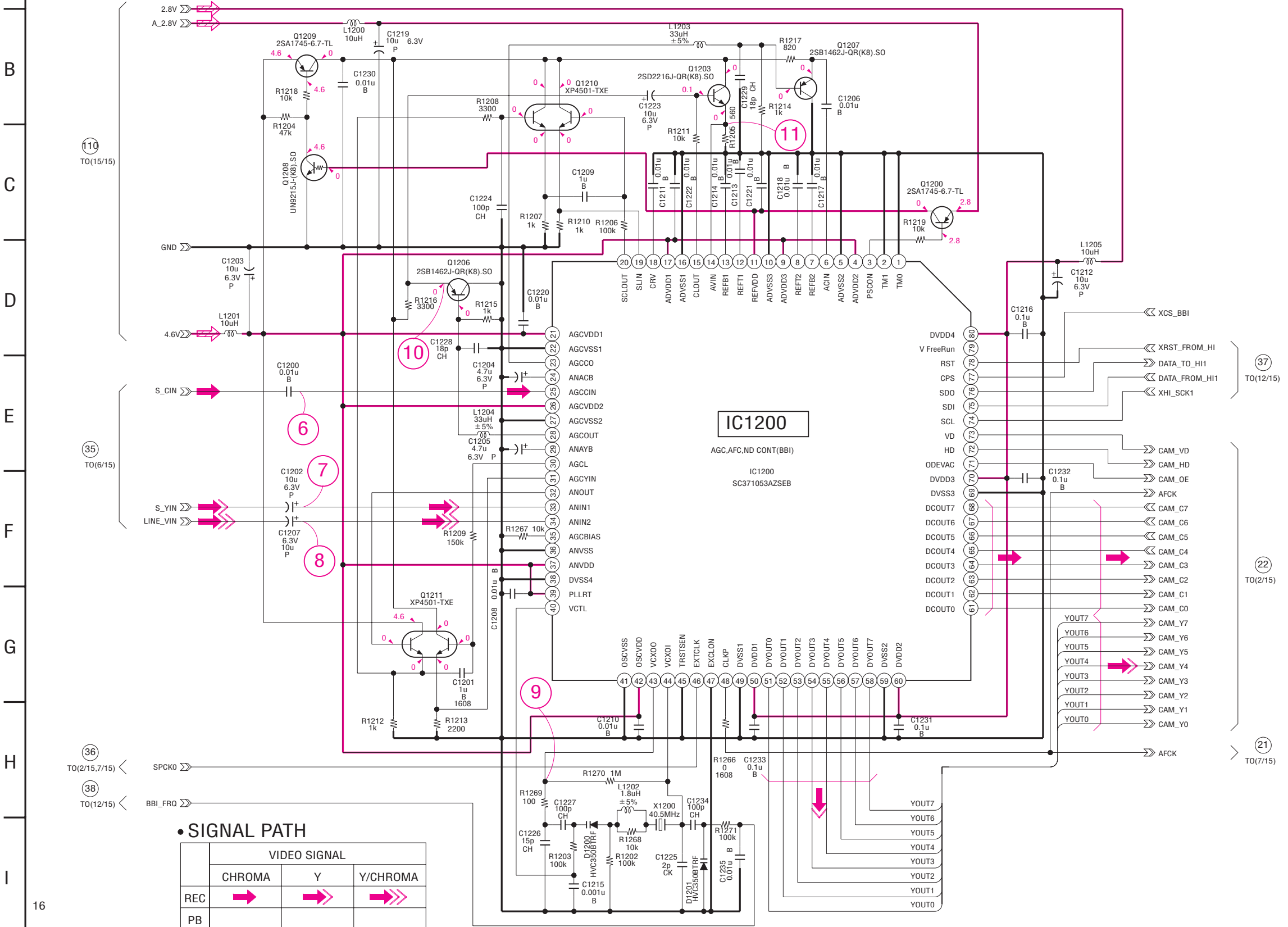
For Schematic Diagram

- Refer to page 4-43 for printed wiring board.
- Refer to page 4-87 for waveforms.

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

VC-227 BOARD(5/15)
 AGC,AFC,ND CONT(BBI)(IN BLOCK)
 -REF.NO.:10000 SERIES-
 XX MARK:NO MOUNT

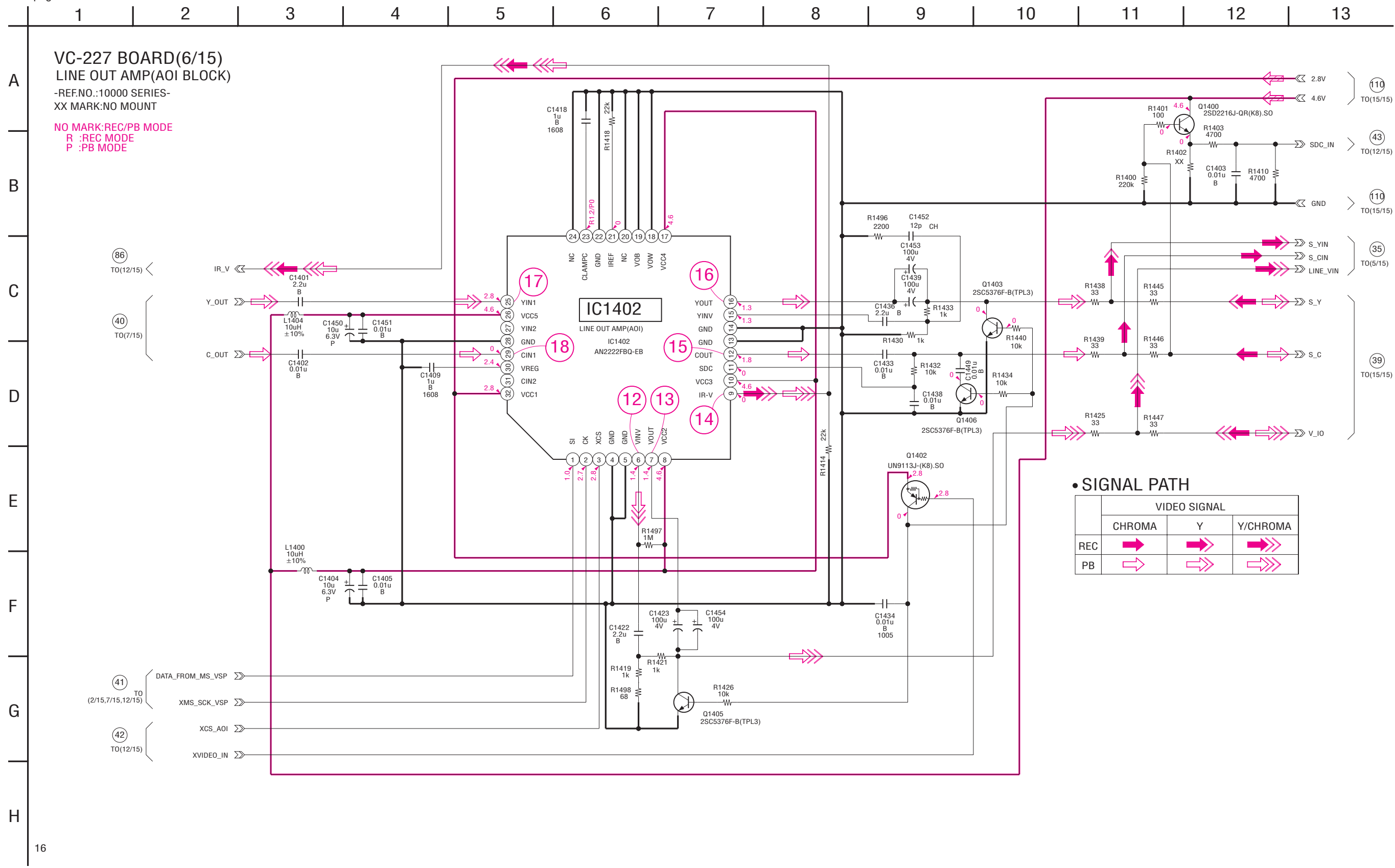
NO MARK:REC/PB MODE
 R :REC MODE
 P :PB MODE



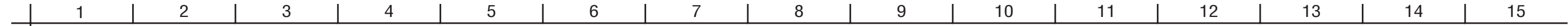
• SIGNAL PATH

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

For Schematic Diagram
 • Refer to page 4-43 for printed wiring board.
 • Refer to page 4-88 for waveforms.



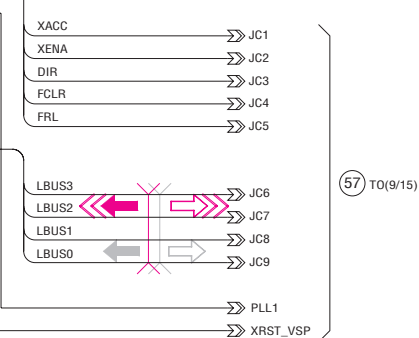
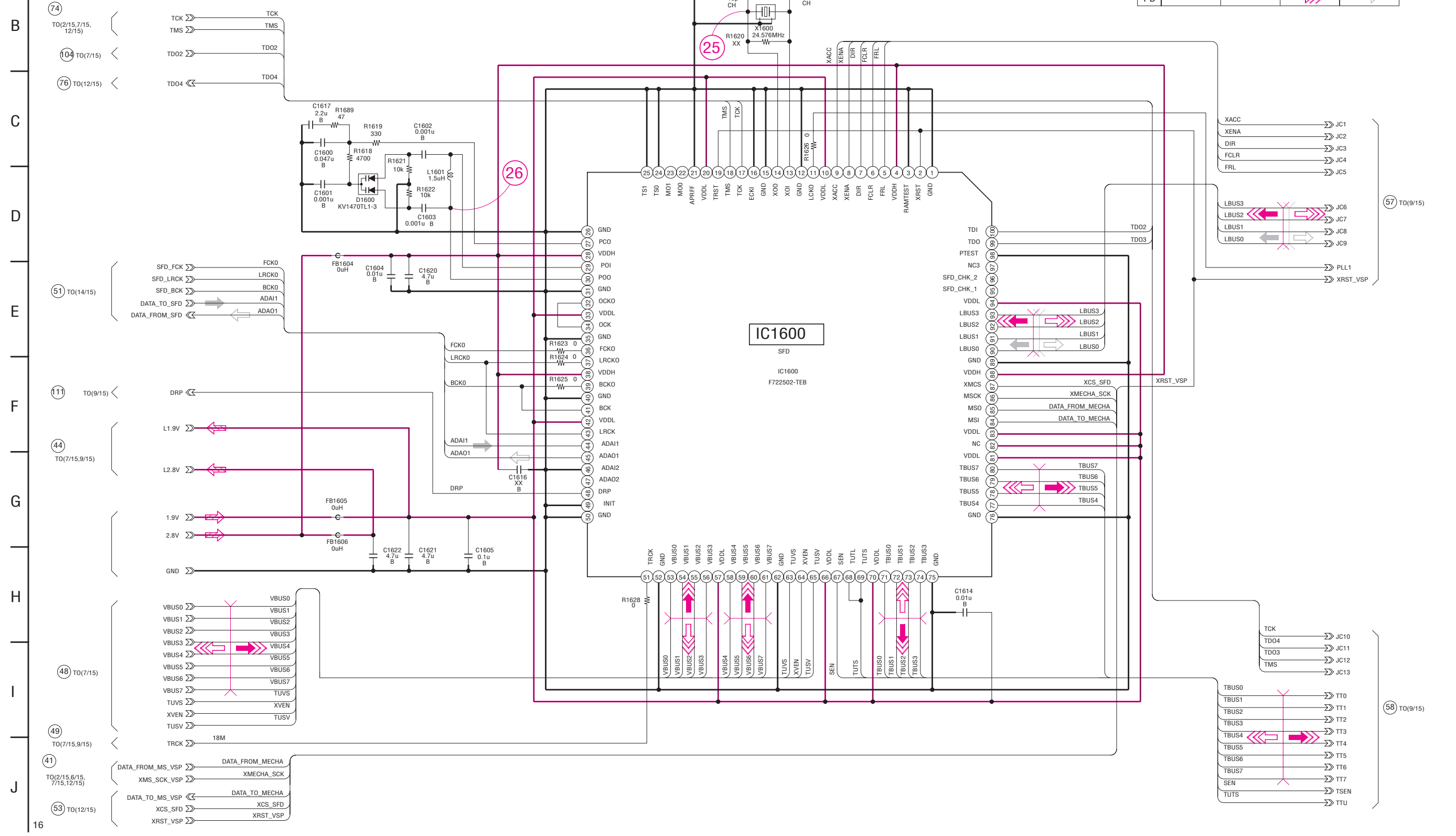
For Schematic Diagram
 • Refer to page 4-43 for printed wiring board.
 • Refer to page 4-88 for waveforms.



VC-227 BOARD(8/15)
 SFD (JC-1 BLOCK)
 -REF.NO.:10000 SERIES-
 XX MARK:NO MOUNT
 NO MARK:REC/PB MODE
 R :REC MODE
 P :PB MODE

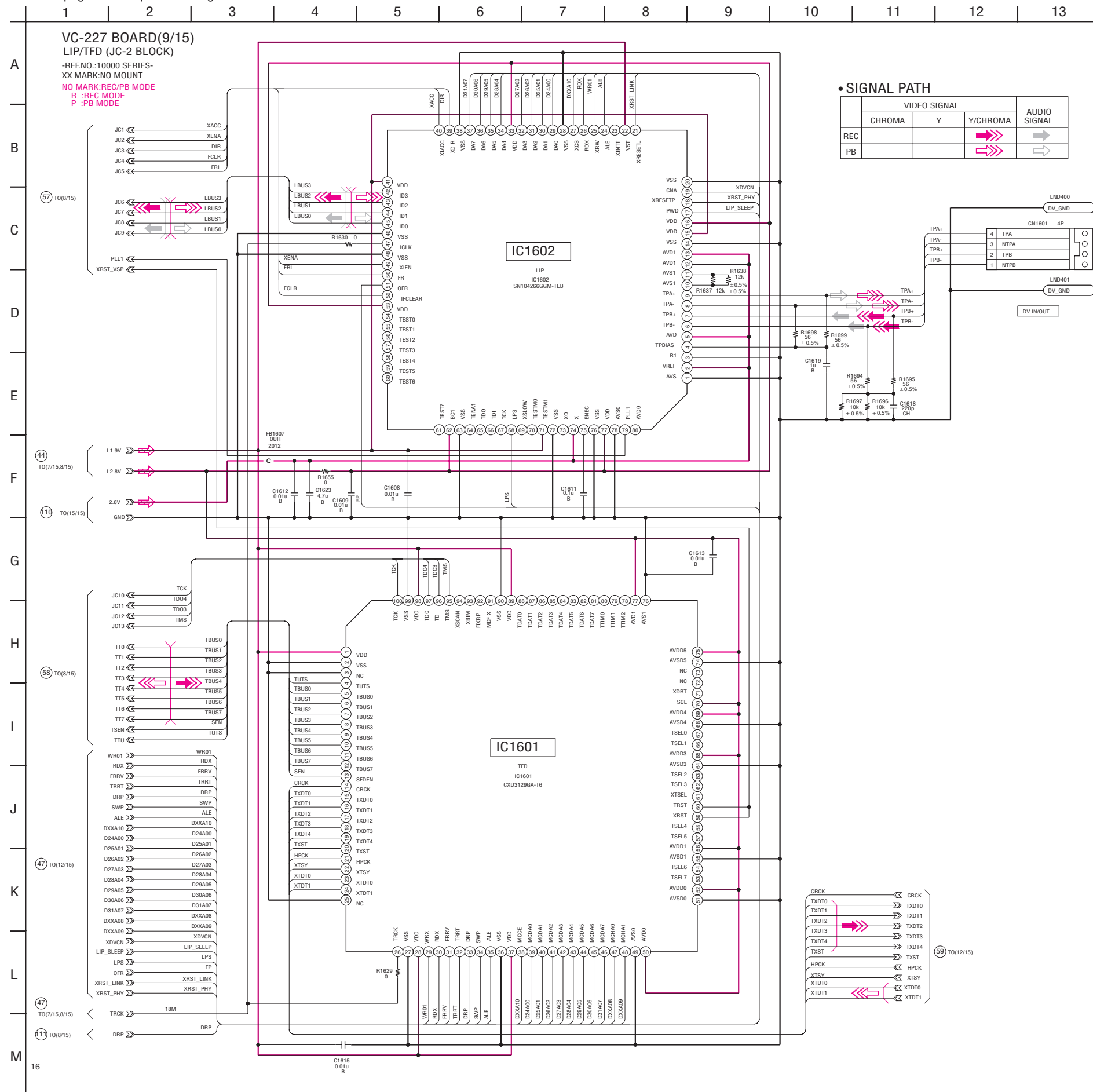
• SIGNAL PATH

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



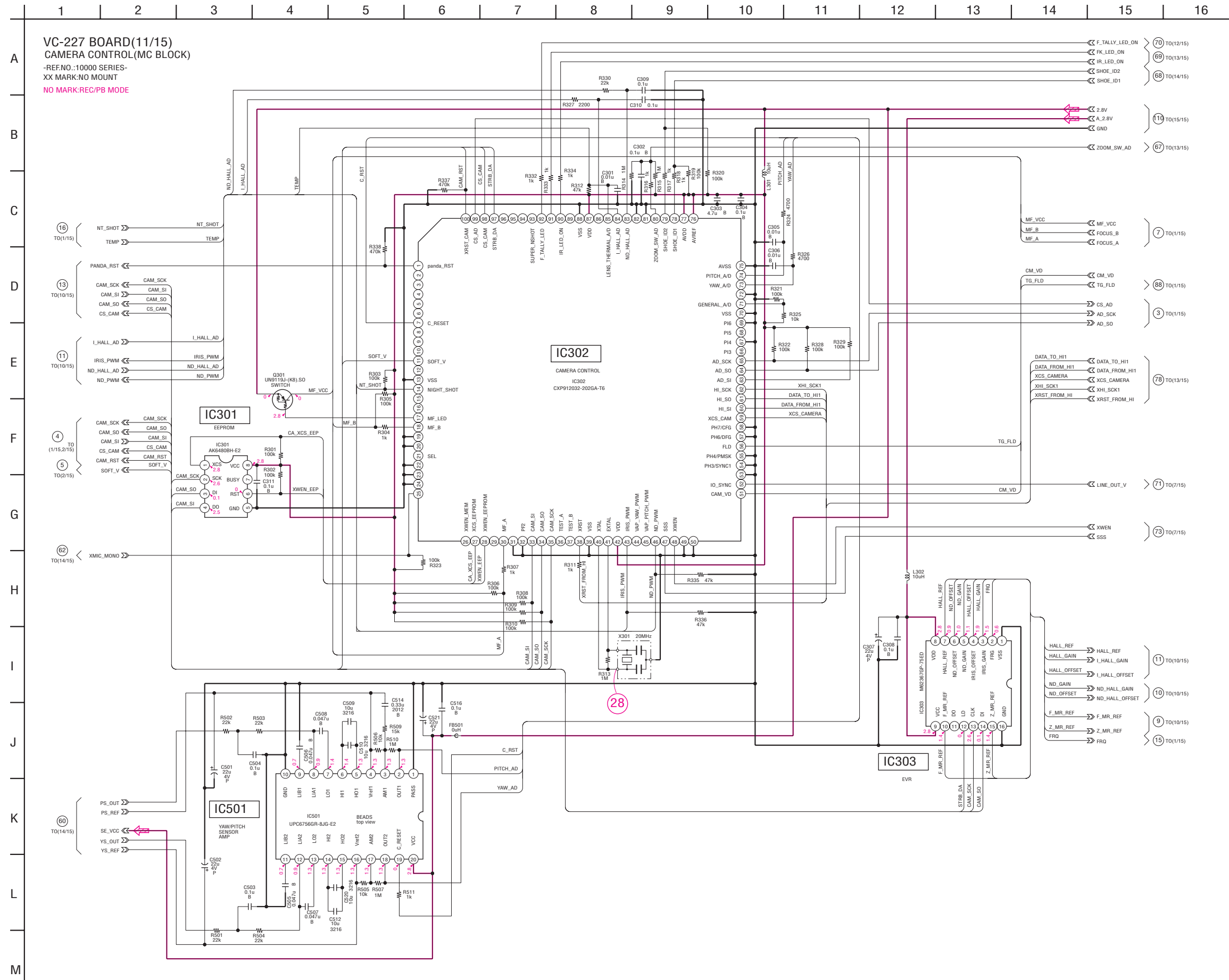
For Schematic Diagram

• Refer to page 4-43 for printed wiring board.

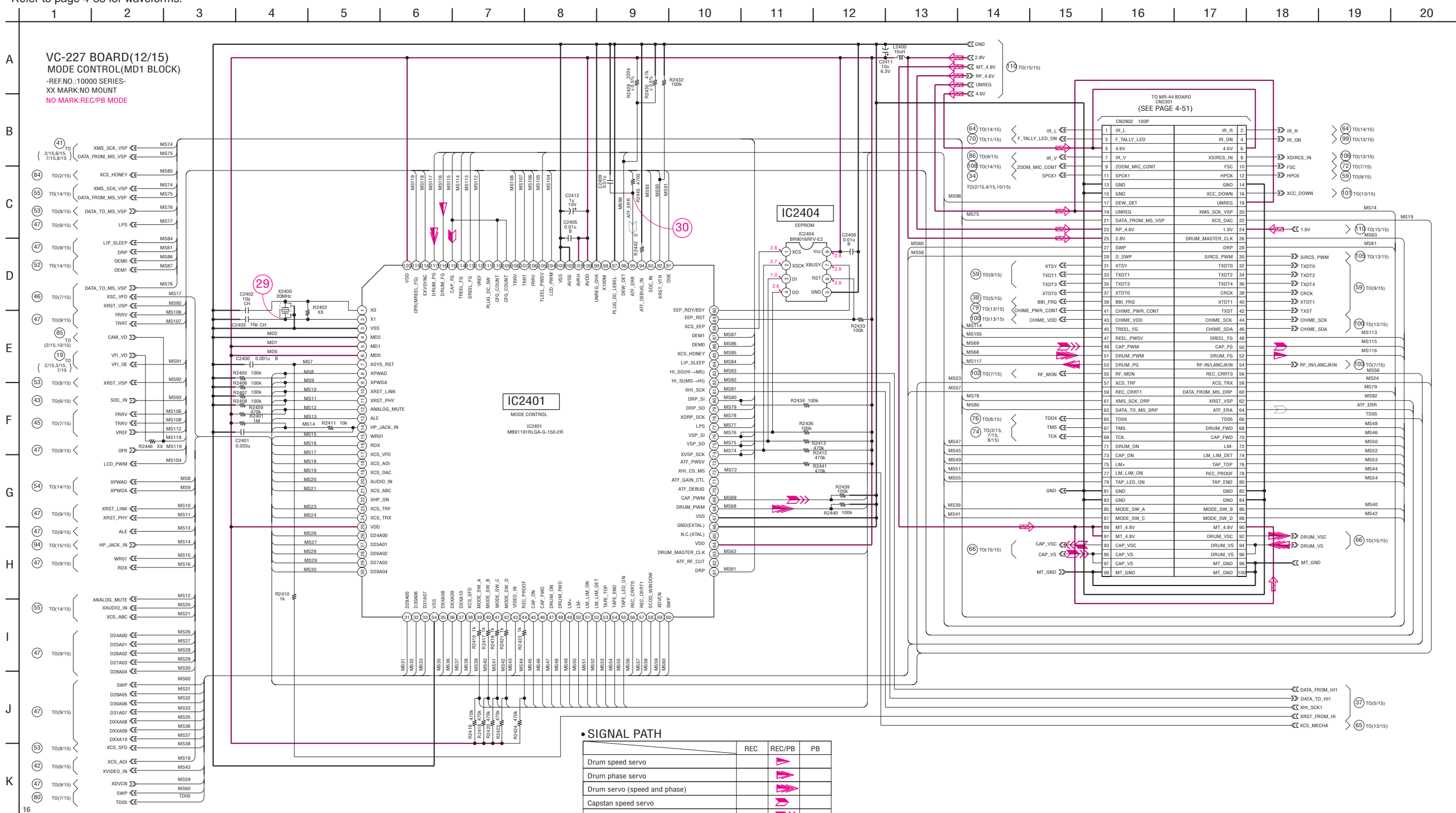


For Schematic Diagram

- Refer to page 4-43 for printed wiring board.
- Refer to page 4-88 for waveform.



For Schematic Diagram
 • Refer to page 4-43 for printed wiring board.
 • Refer to page 4-88 for waveforms.

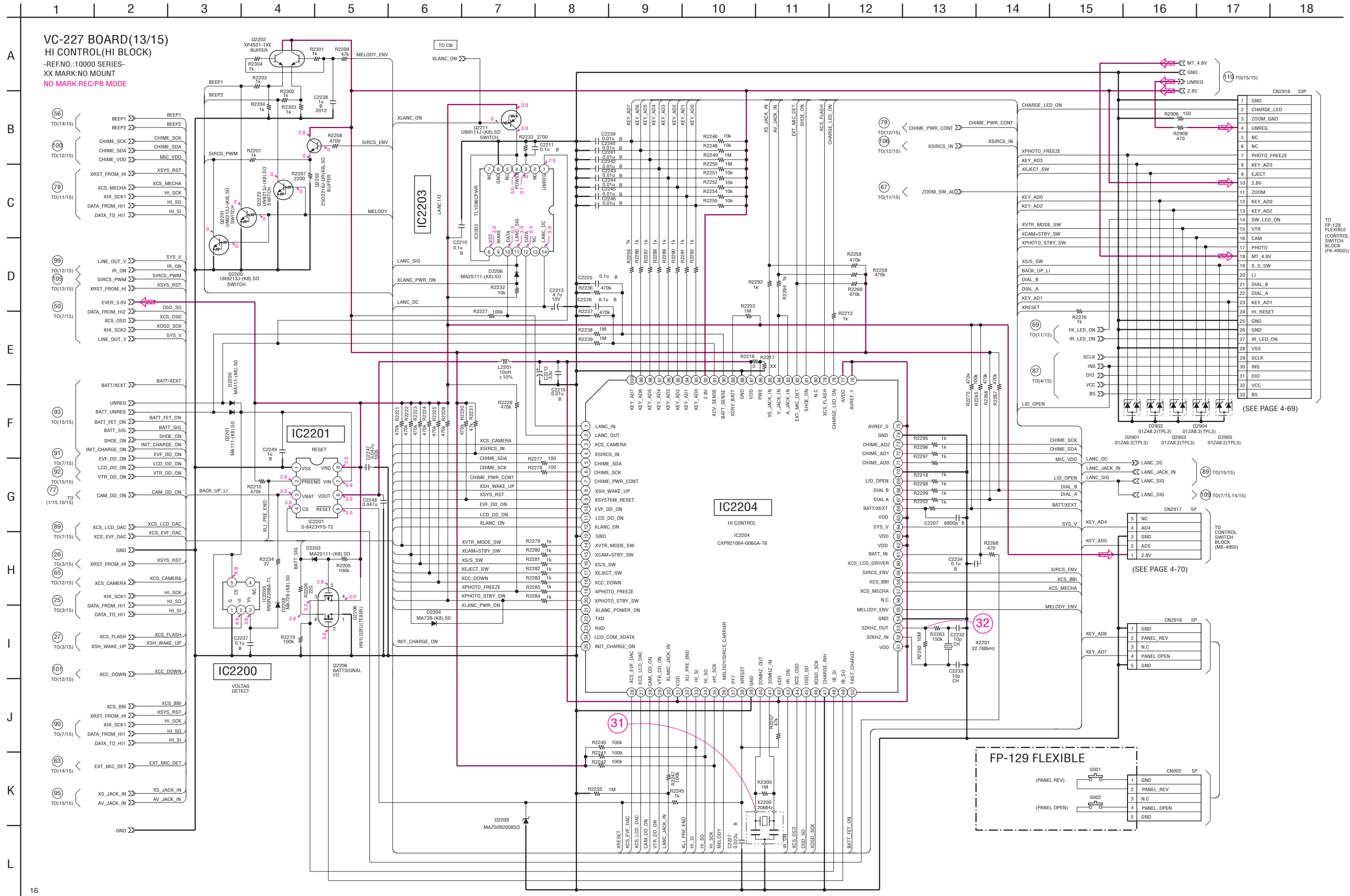


• SIGNAL PATH

	REC	REC/PB	PB
Drum speed servo		▶	
Drum phase servo		▶	
Drum servo (speed and phase)		▶	
Capstan speed servo		▶	
Capstan servo (speed and phase)		▶	
Ref. signal			▶

For Schematic Diagram

- Refer to page 4-43 for printed wiring board.
- Refer to page 4-89 for waveforms.
- Refer to page 4-46 for FP-129 flexible wiring board.

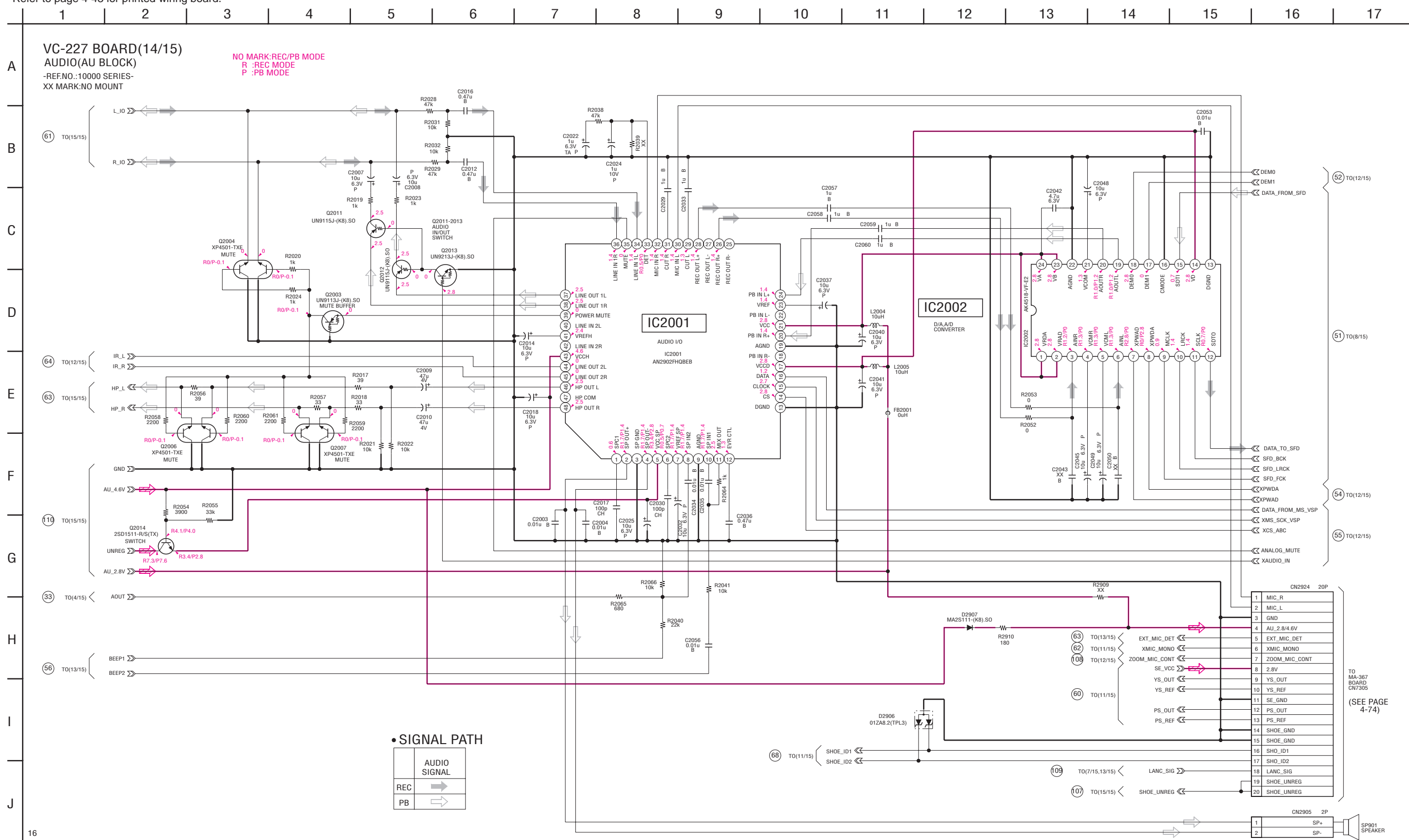


VC-227 BOARD(13/15)
 HI CONTROL(HI BLOCK)
 -REF.NO.:10000 SERIES-
 XX MARK:NO MOUNT
 NO MARK:REC/PB MODE

- TO(14/15) BEEP1 BEEP2
- TO(12/15) CHIME_SCK CHIME_SDA CHIME_VDD
- TO(11/15) XRST_FROM_HI XSYS_RST XCS_MECHA HI_SCK HI_SO HI_SI
- TO(12/15) LINE_OUT_V IR_ON IR_OFF SIRCS_PWM XSYS_RST
- TO(7/15) EVER_3.0V OSD_SO XCS OSD XHL_SCK XOSD_SCK SYS_V
- TO(15/15) BATT/TEXT BATT/TEXT UNREG BATT_UNREG BATT_FET_ON BATT_FET_ON BATT_SIG BATT_SIG SHOE_ON SHOE_ON INIT_CHARGE_ON EVF_DD_ON EVF_DD_ON LCD_DD_ON LCD_DD_ON VTR_DD_ON VTR_DD_ON
- TO(7/15) XCS_LCD_DAC XCS_LCD_DAC XCS_EVF_DAC XCS_EVF_DAC GND
- TO(3/15) XRST_FROM_HI XSYS_RST
- TO(12/15) XCS_CAMERA XCS_CAMERA XHL_SCK1 HI_SCK HI_SO DATA_FROM_HI1 HI_SI
- TO(3/15) XCS_FLASH XCS_FLASH XSH_WAKE_UP XSH_WAKE_UP
- TO(12/15) XCC_DOWN XCC_DOWN
- TO(14/15) XCS_BBI XCS_BBI XRST_FROM_HI XSYS_RST XHL_SCK1 HI_SCK HI_SO DATA_FROM_HI1 HI_SI
- TO(14/15) EXT_MIC_DET EXT_MIC_DET
- TO(15/15) XS_JACK_IN XS_JACK_IN AV_JACK_IN AV_JACK_IN GND

HI CONTROL / PANEL OPEN
 VC-227 (13/15) / FP-129

For Schematic Diagram
 • Refer to page 4-43 for printed wiring board.



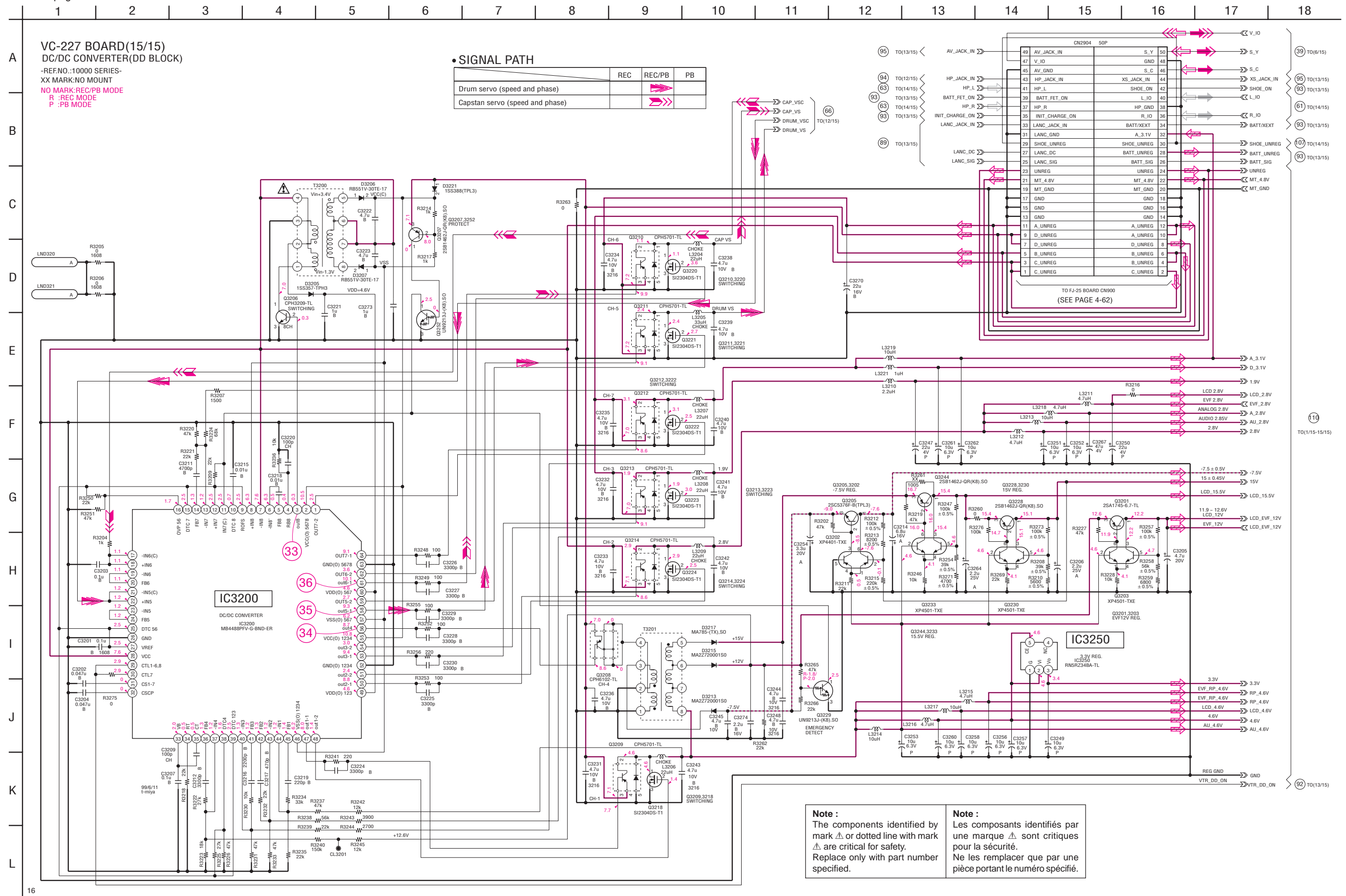
• SIGNAL PATH

	AUDIO SIGNAL
REC	→
PB	→

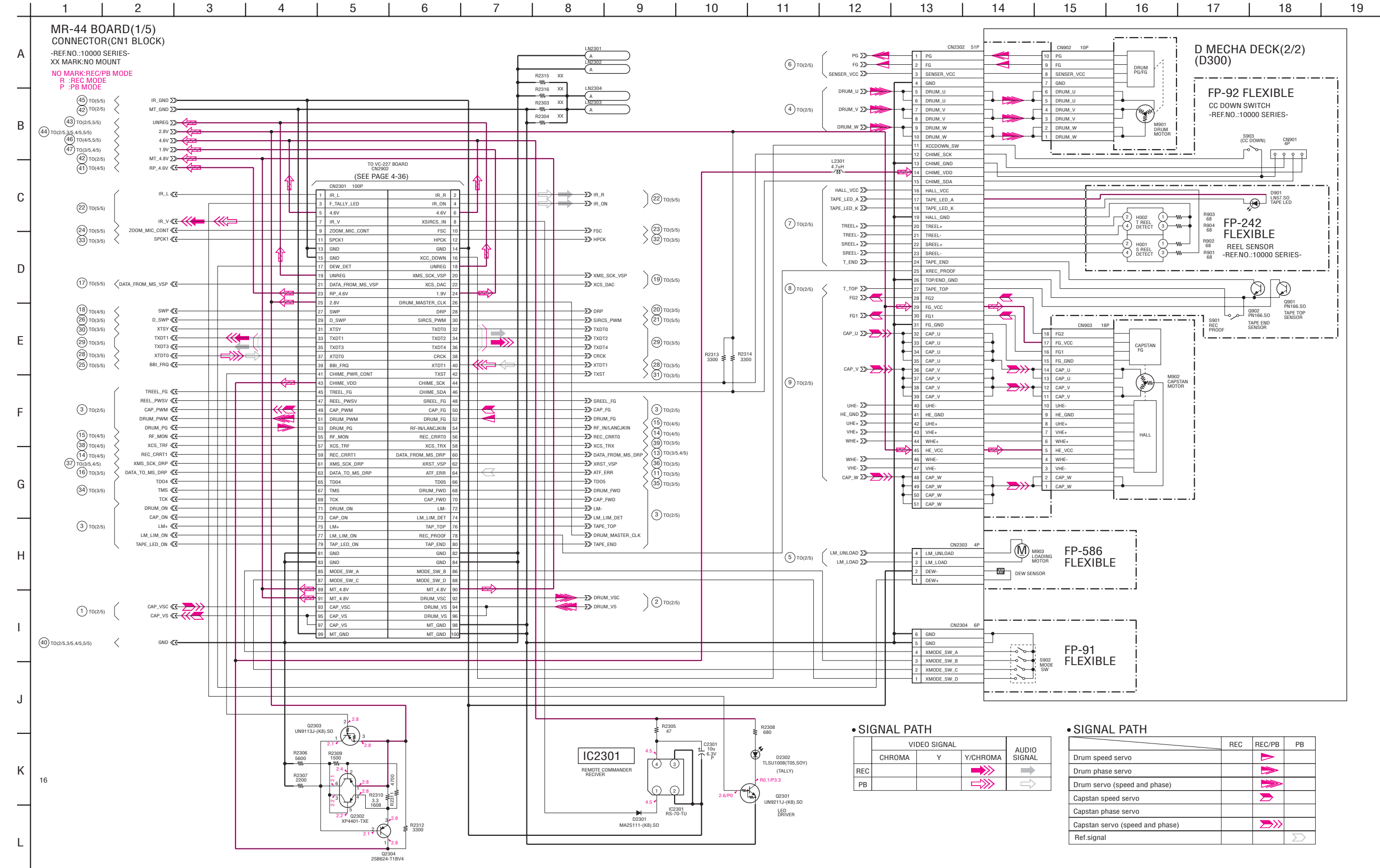
TO MA-367 BOARD CN7305
(SEE PAGE 4-74)

For Schematic Diagram

- Refer to page 4-43 for printed wiring board.
- Refer to page 4-89 for waveforms.



For Schematic Diagram
 Refer to page 4-47 for printed wiring board.



• SIGNAL PATH

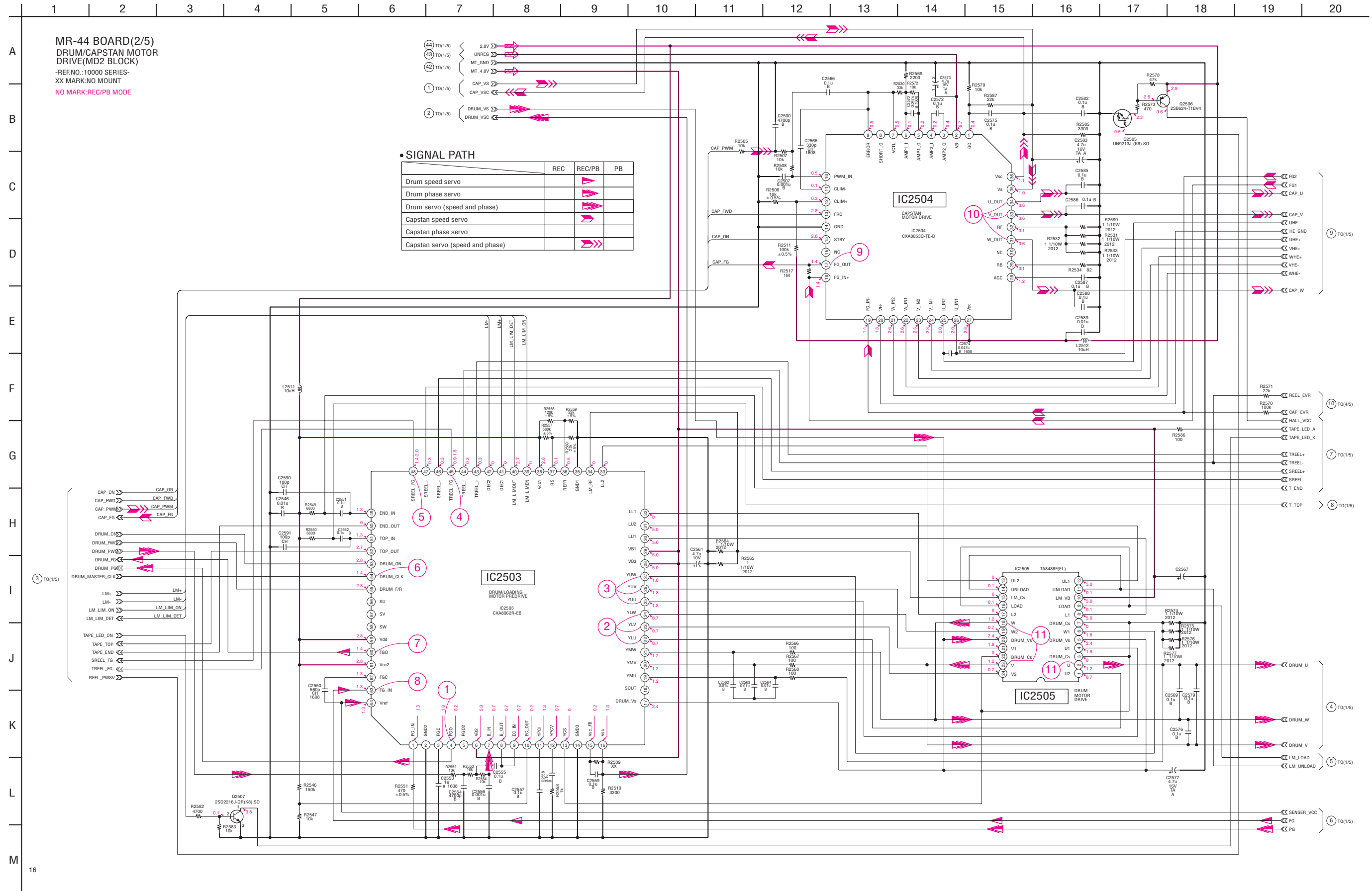
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC			▶▶▶	▶▶▶
PB			▶▶▶	▶▶▶

• SIGNAL PATH

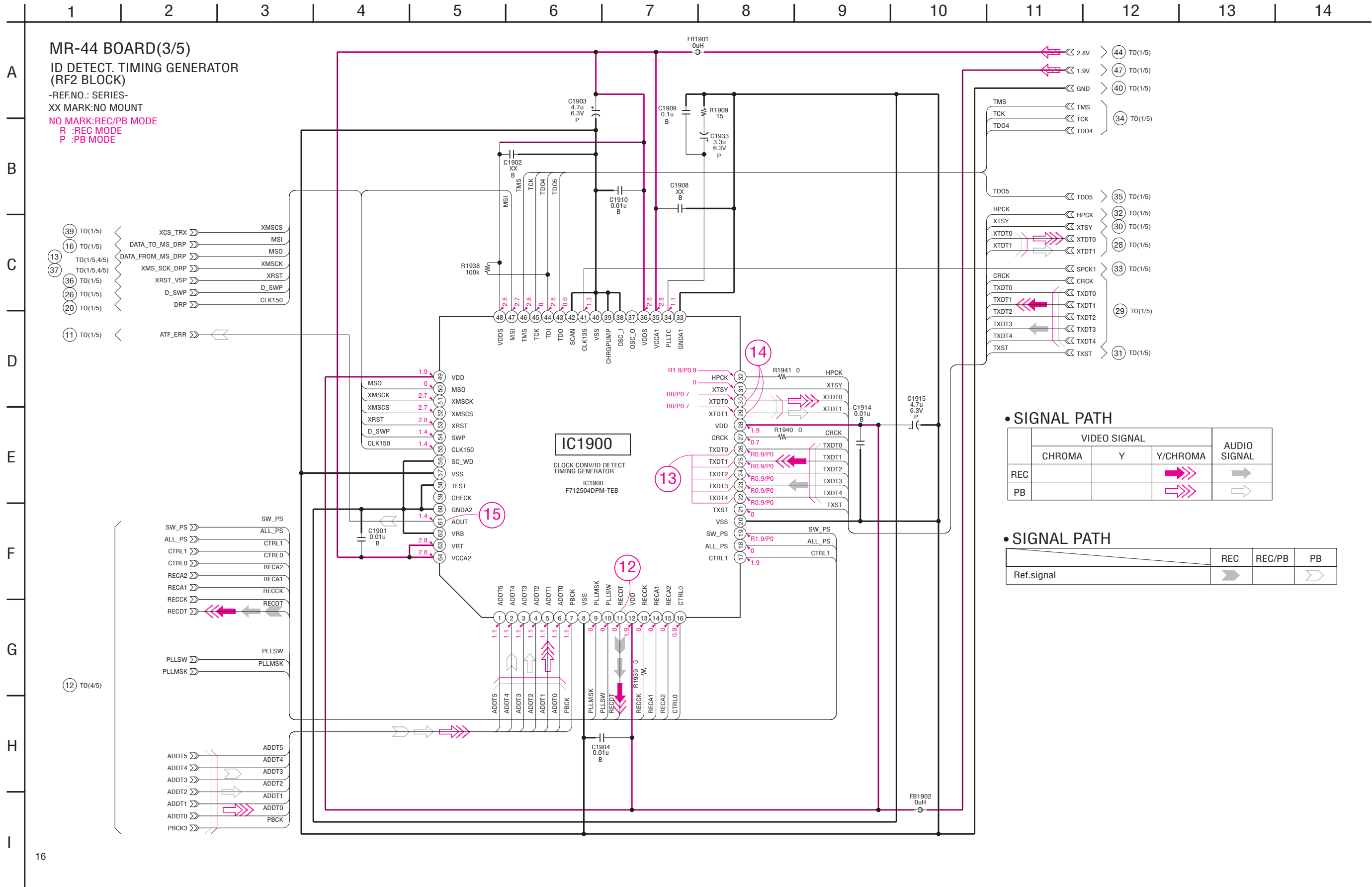
	REC	REC/PB	PB
Drum speed servo		▶▶▶	
Drum phase servo		▶▶▶	
Drum servo (speed and phase)		▶▶▶	
Capstan speed servo		▶▶▶	
Capstan phase servo		▶▶▶	
Capstan servo (speed and phase)		▶▶▶	
Ref.signal			▶▶▶

For Schematic Diagram

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-89 for waveforms.



For Schematic Diagram
 • Refer to page 4-47 for printed wiring board.
 • Refer to page 4-89 for waveforms.



MR-44 BOARD(3/5)
ID DETECT. TIMING GENERATOR (RF2 BLOCK)
 -REF.NO.: SERIES-
 XX MARK:NO MOUNT
 NO MARK:REC/PB MODE
 R :REC MODE
 P :PB MODE

(39) TO(1/5) XCS_TRX >> XMSCS
 (16) TO(1/5) DATA_TO_MS_DRP >> MSI
 (13) TO(1/5,4/5) DATA_FROM_MS_DRP >> MSO
 (37) TO(1/5,4/5) XMS_SCK_DRP >> XMSCK
 (36) TO(1/5) XRST_VSP >> XRST
 (26) TO(1/5) D_SWP >> D_SWP
 (20) TO(1/5) DRP >> CLK150
 (11) TO(1/5) << ATF_ERR

SIGNAL PATH

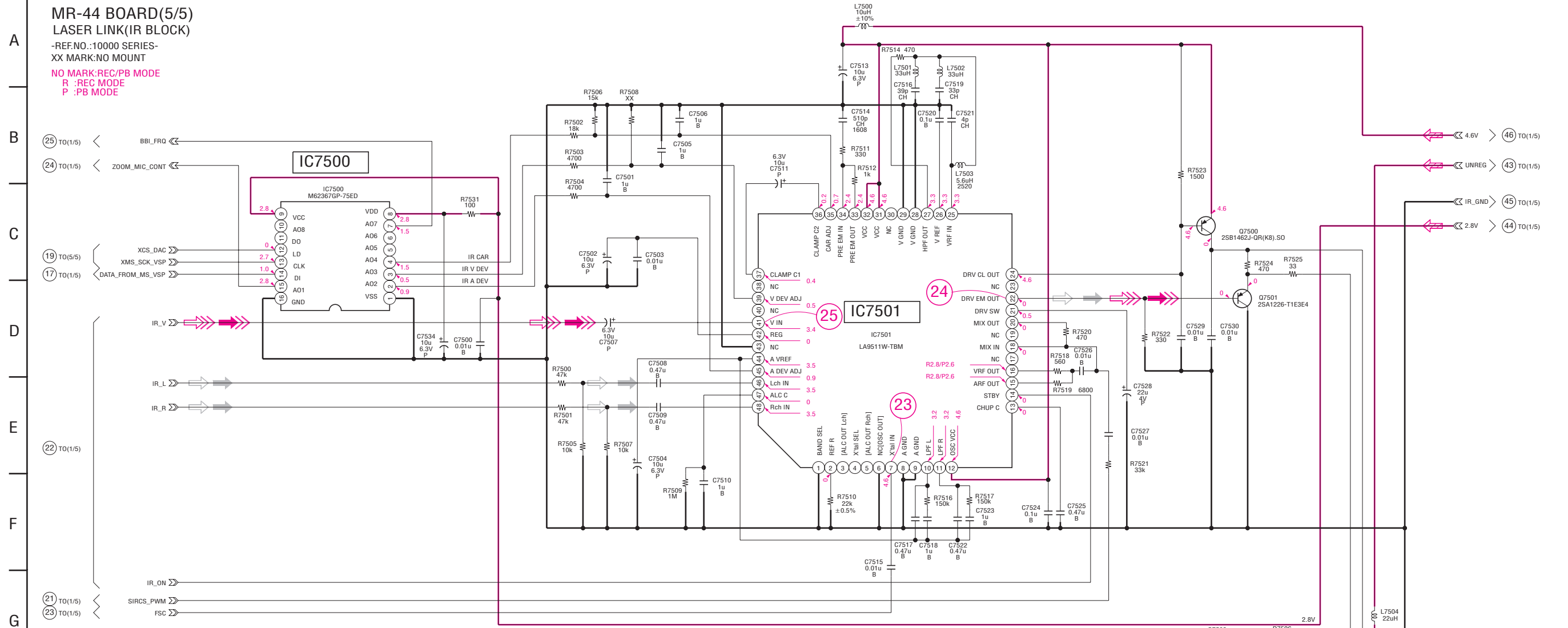
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC			➡	➡
PB			➡	➡

SIGNAL PATH

Ref.signal	REC	REC/PB	PB
	➡	➡	➡

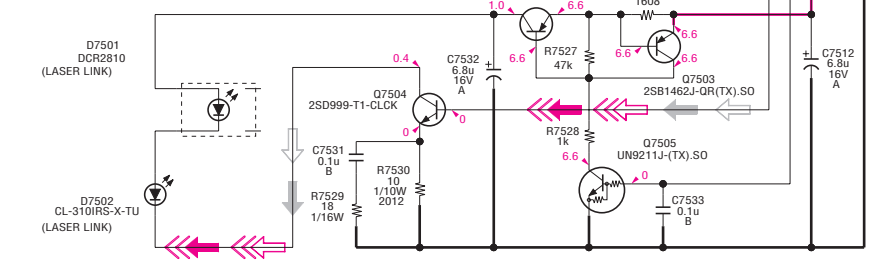
For Schematic Diagram
 • Refer to page 4-47 for printed wiring board.
 • Refer to page 4-90 for waveforms.

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



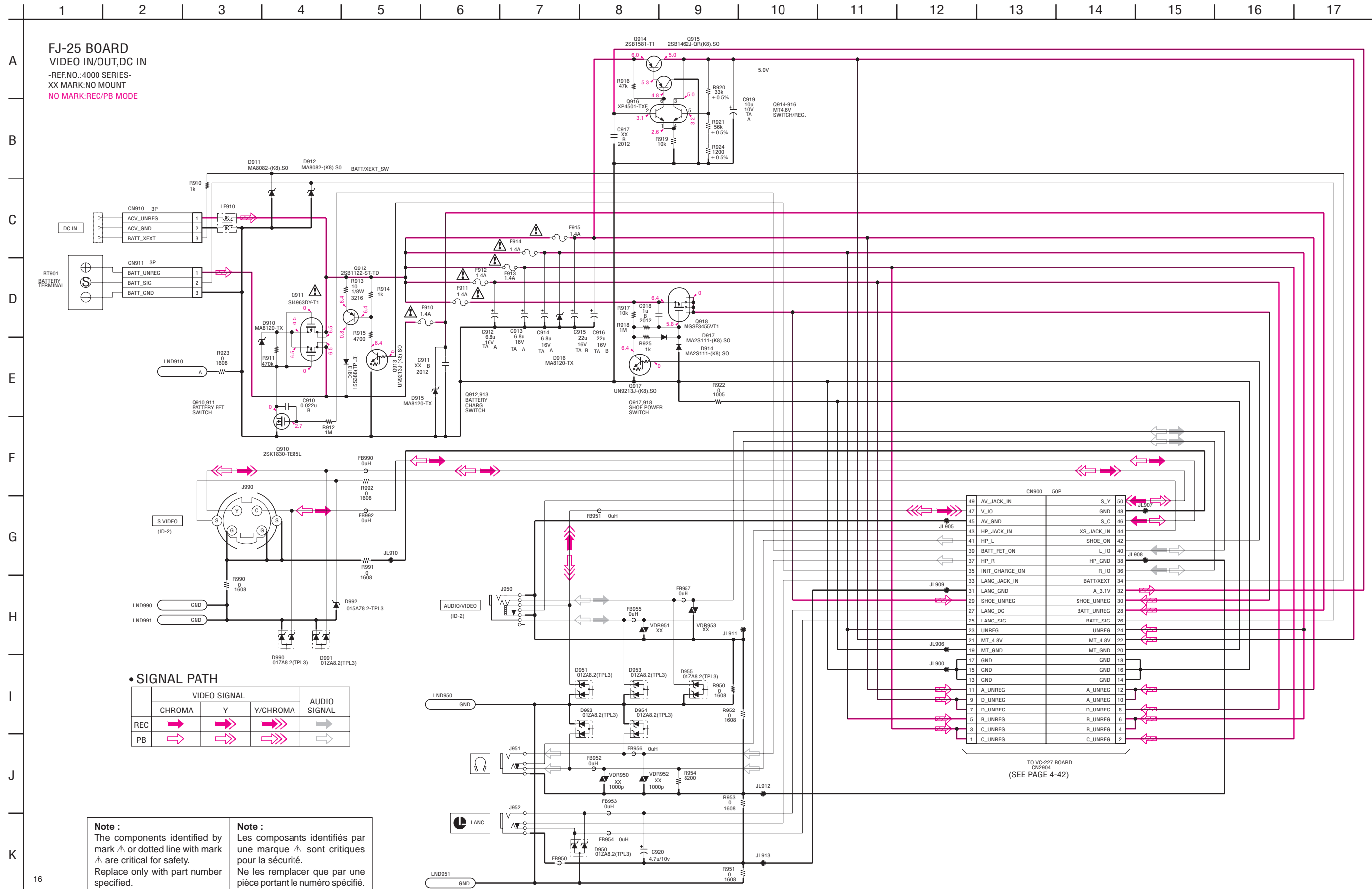
• SIGNAL PATH

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



For Schematic Diagram

• Refer to page 4-63 for printed wiring board.



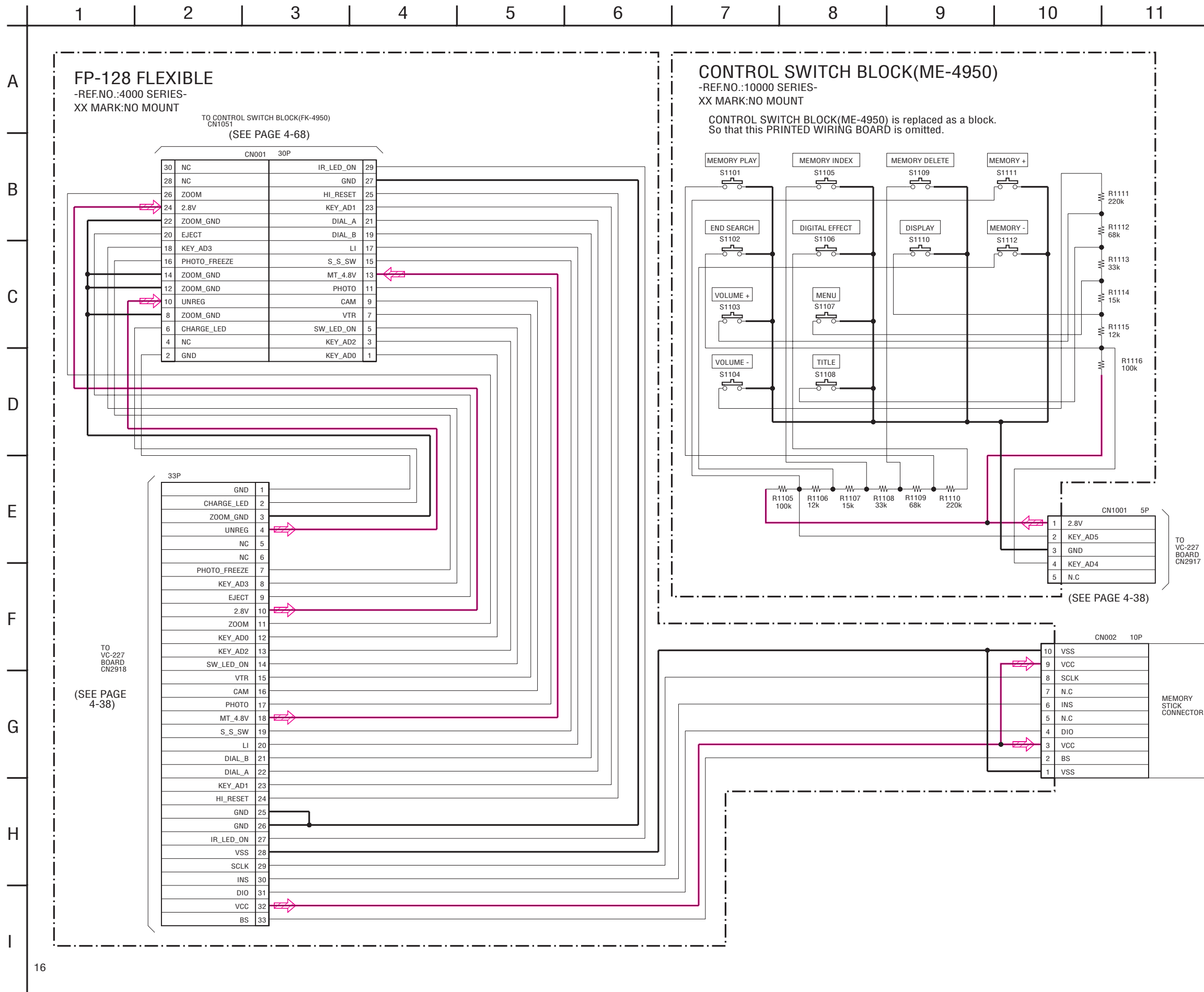
• SIGNAL PATH

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

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

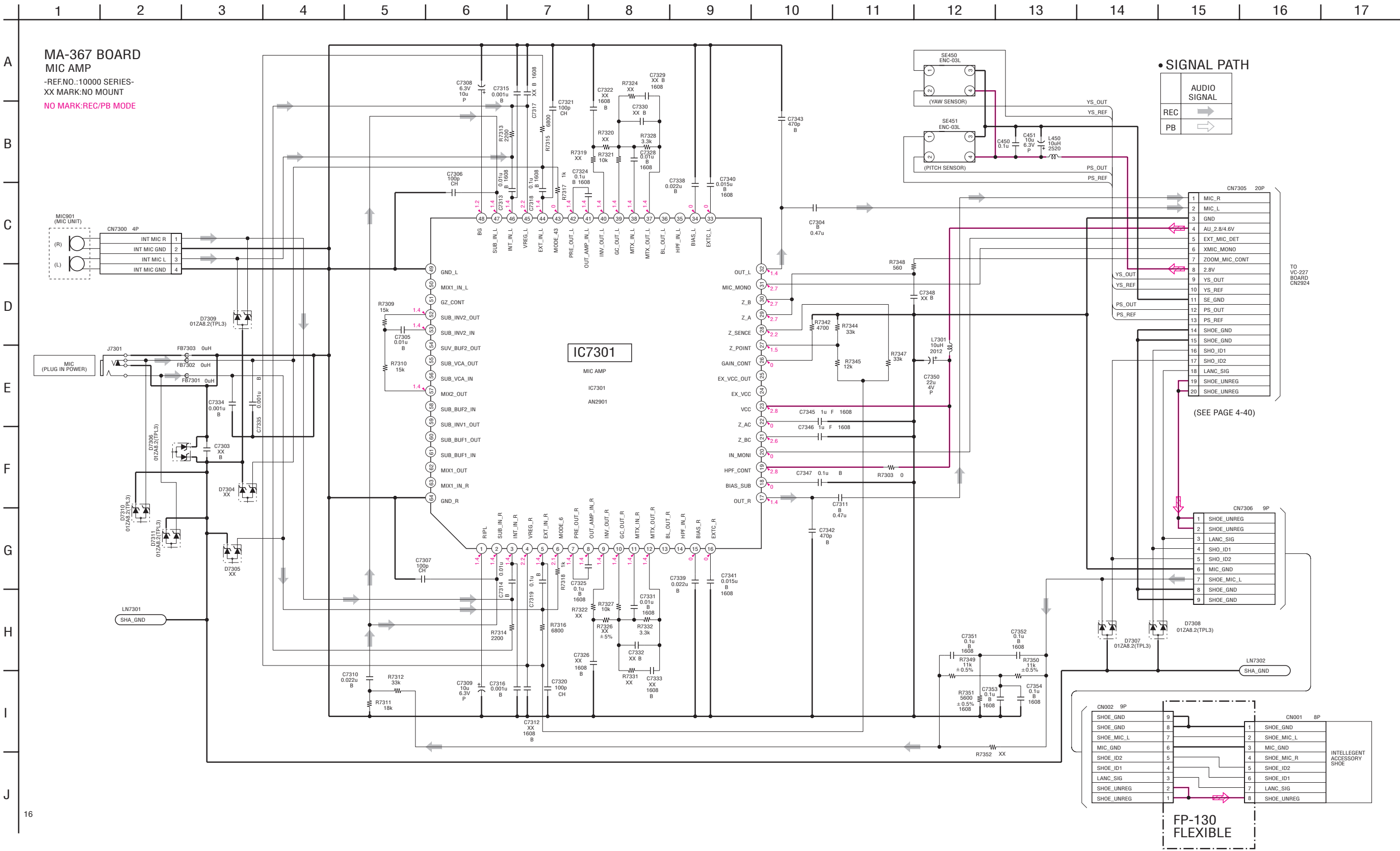
Note :
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

TO VC-227 BOARD
CN900
(SEE PAGE 4-42)



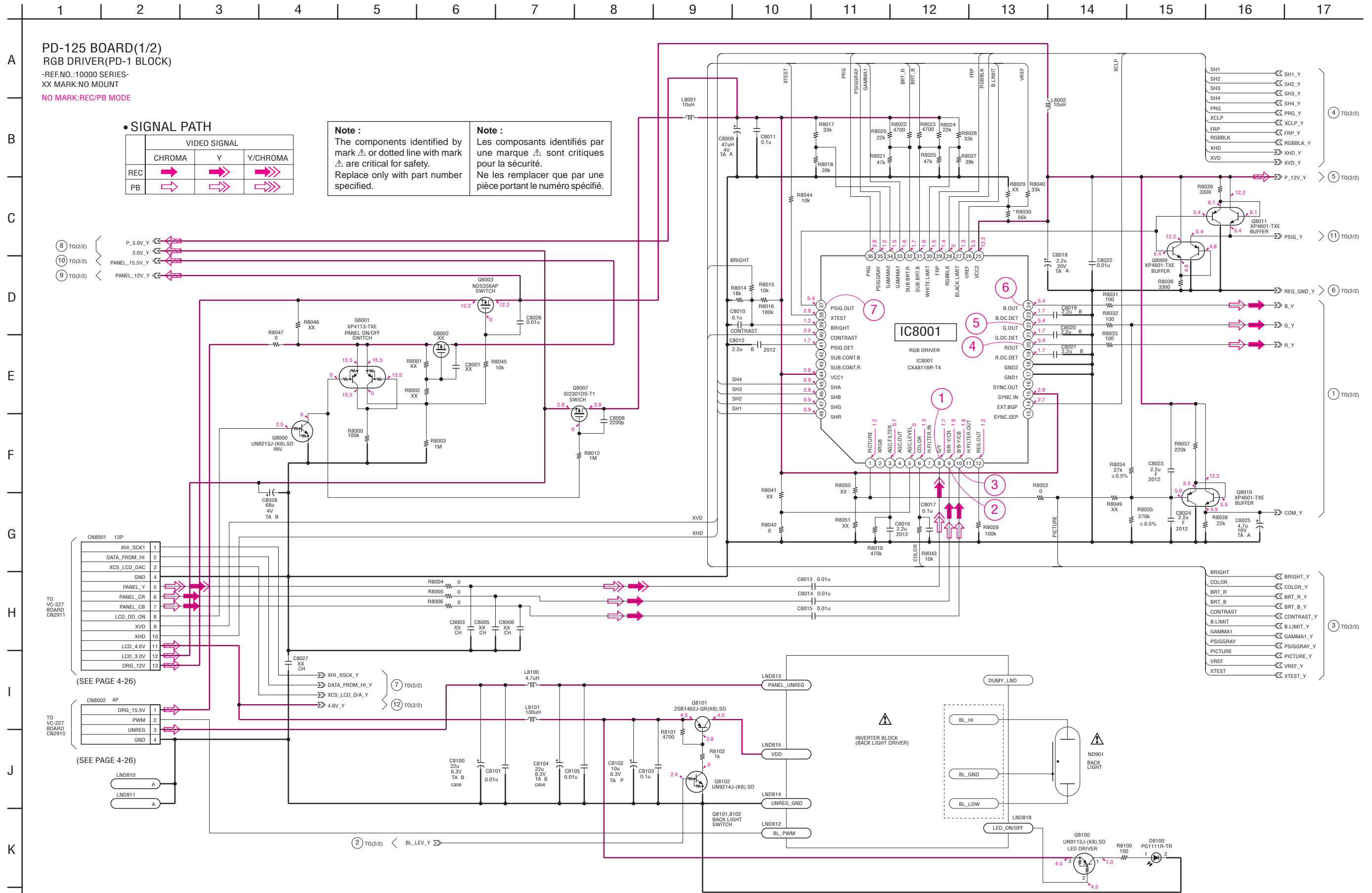
TO VC-227 BOARD CN2918
(SEE PAGE 4-38)

(SEE PAGE 4-38)

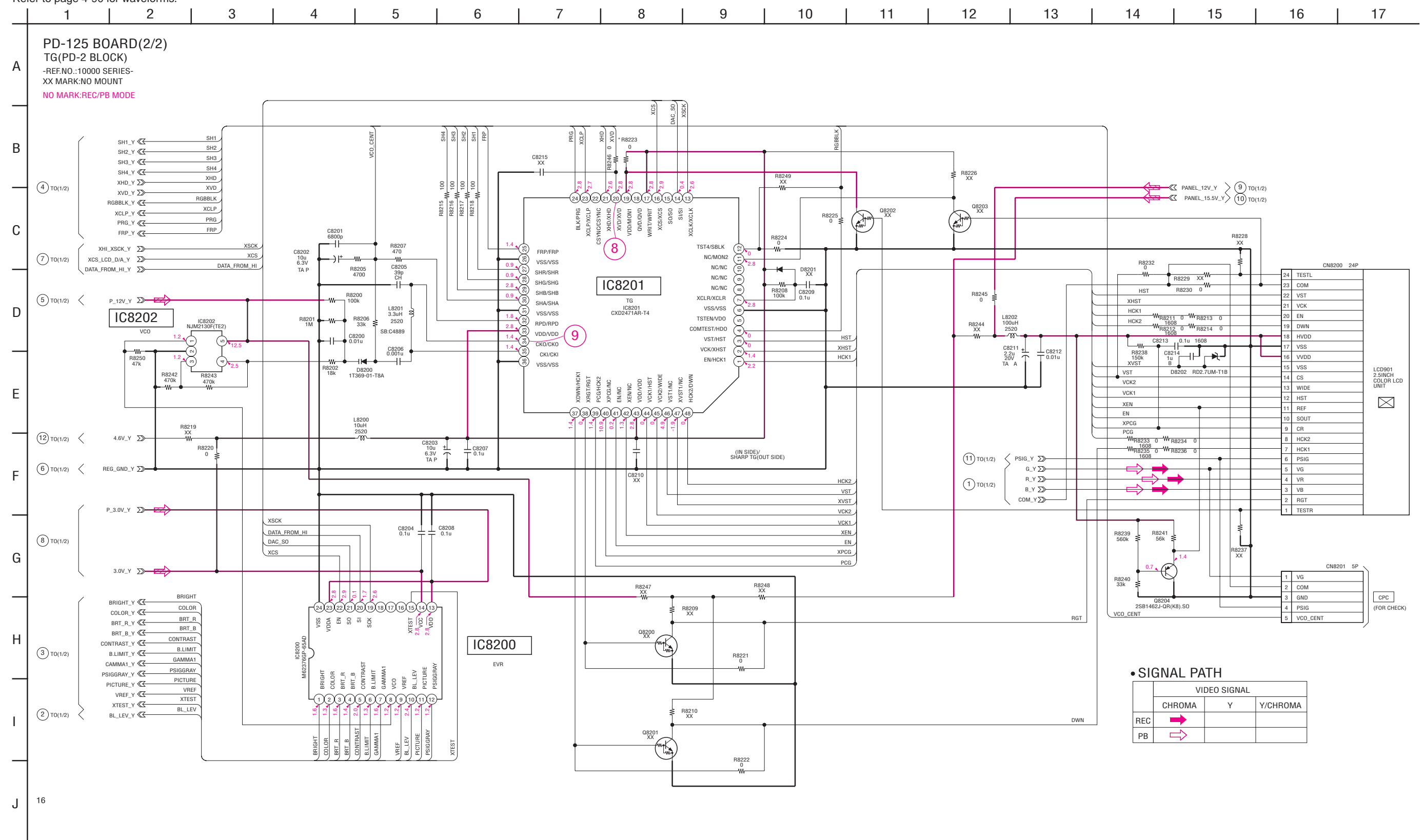


For Schematic Diagram

• Refer to page 4-90 for waveforms.



For Schematic Diagram
 • Refer to page 4-75 for printed wiring board.
 • Refer to page 4-90 for waveforms.

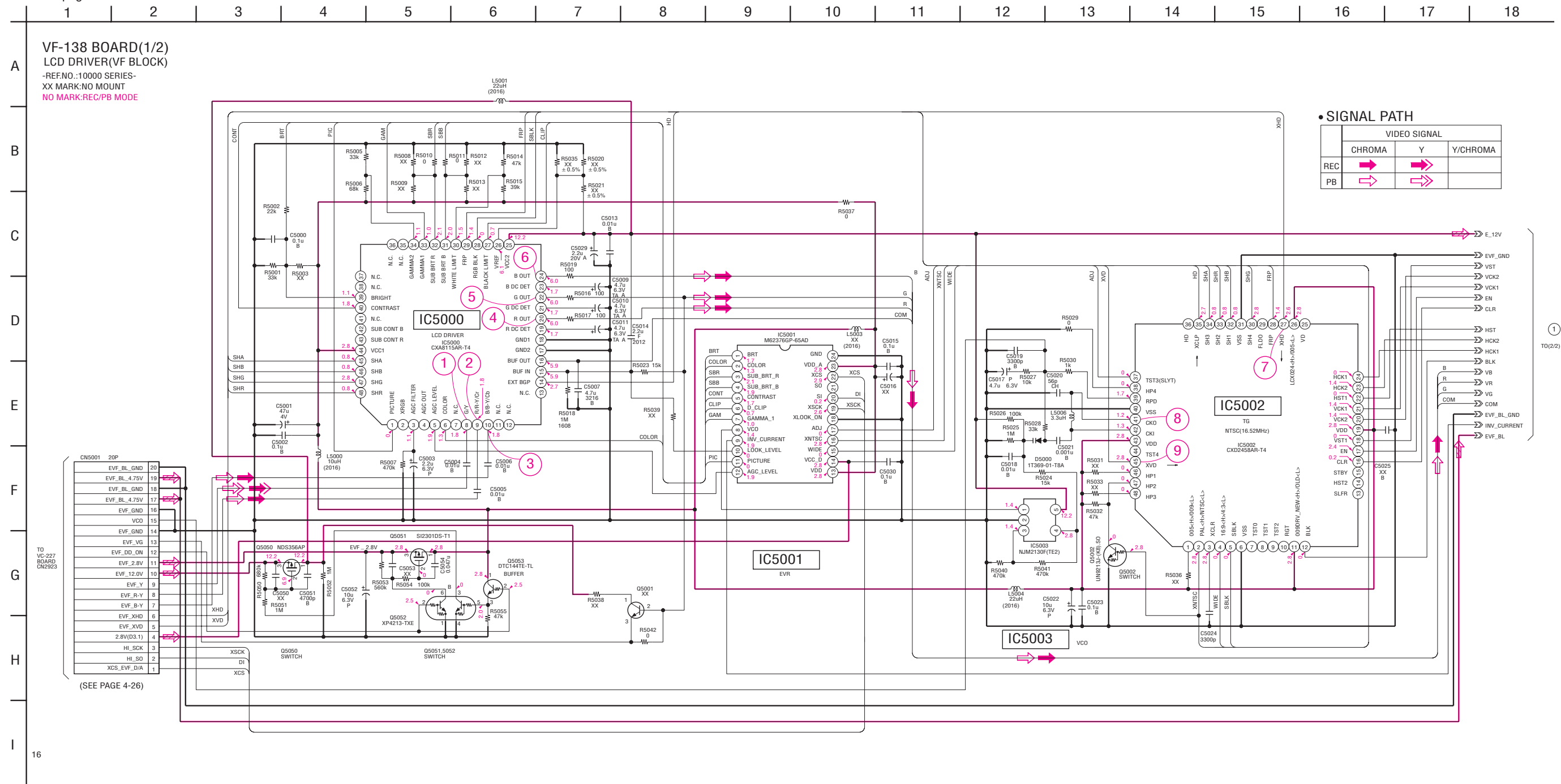


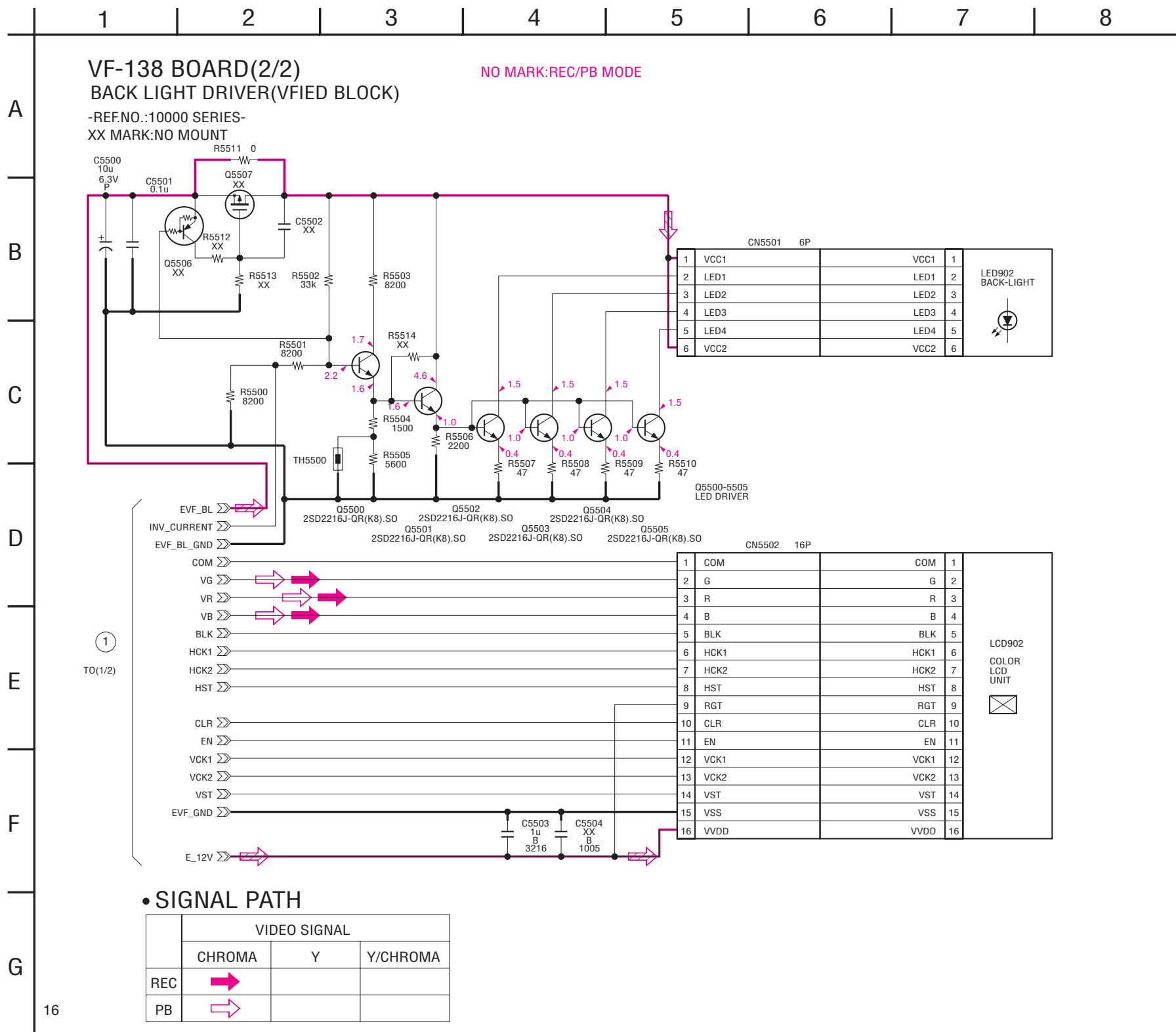
• SIGNAL PATH

	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC	→		
PB	→		

For Schematic Diagram

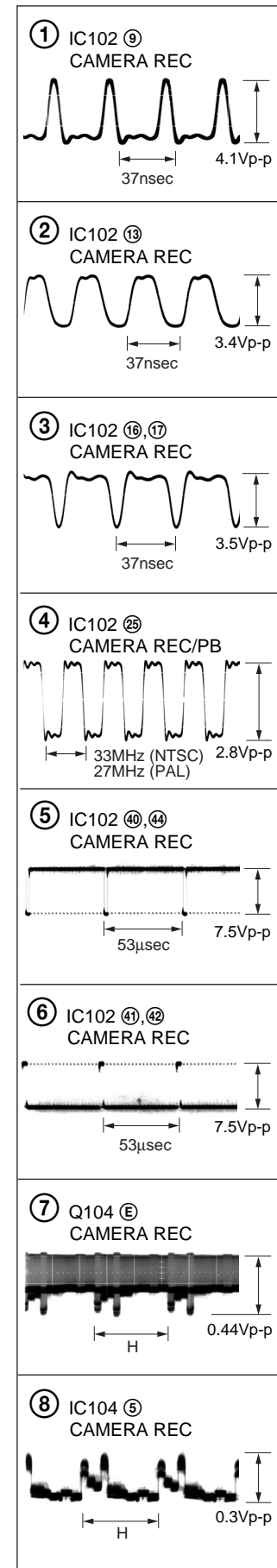
- Refer to page 4-85 for printed wiring board.
- Refer to page 4-91 for waveforms.



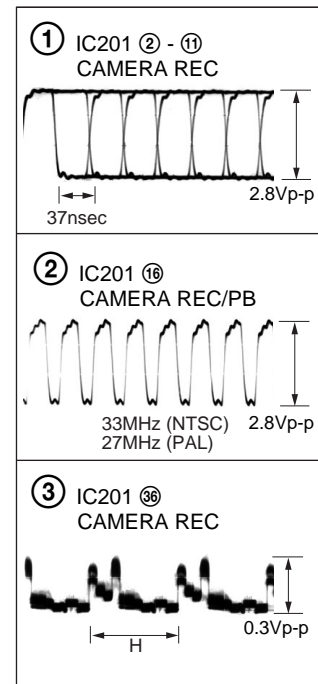


4-3. WAVEFORMS

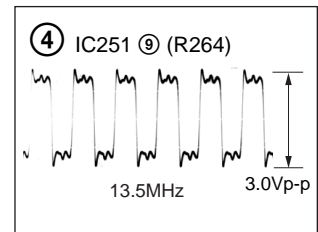
CD-234 BOARD



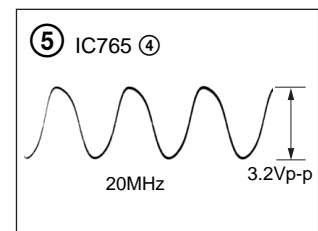
VC-227 BOARD (1/15)



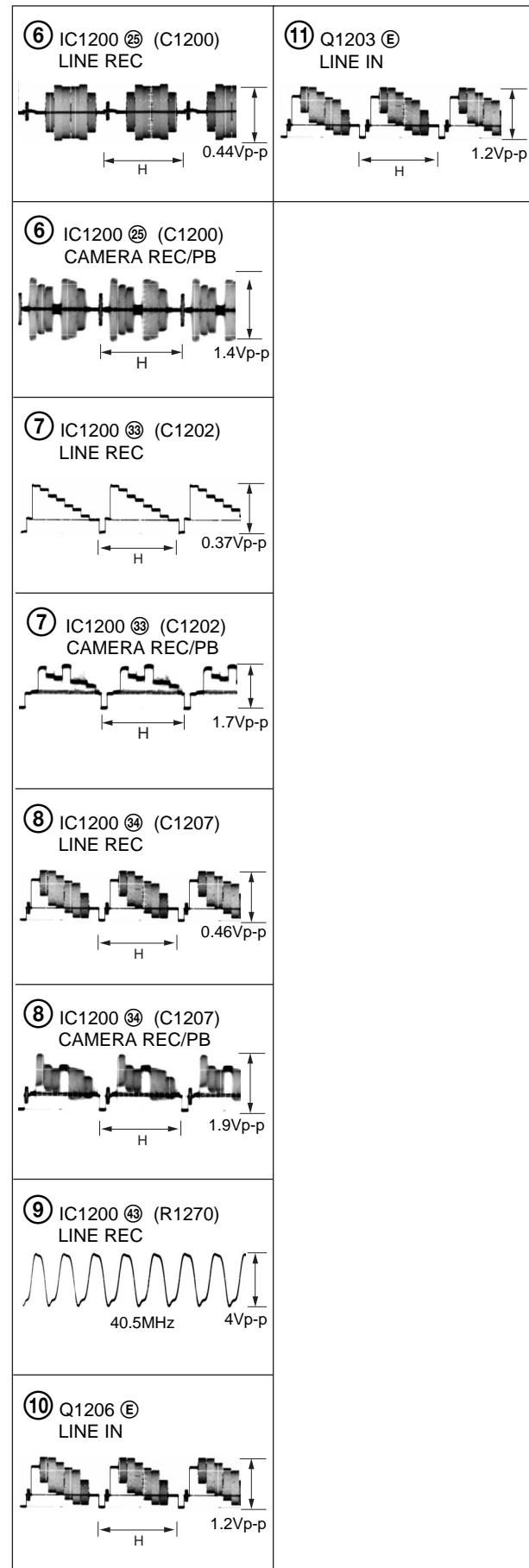
VC-227 BOARD (2/15) CAMERA REC/PB



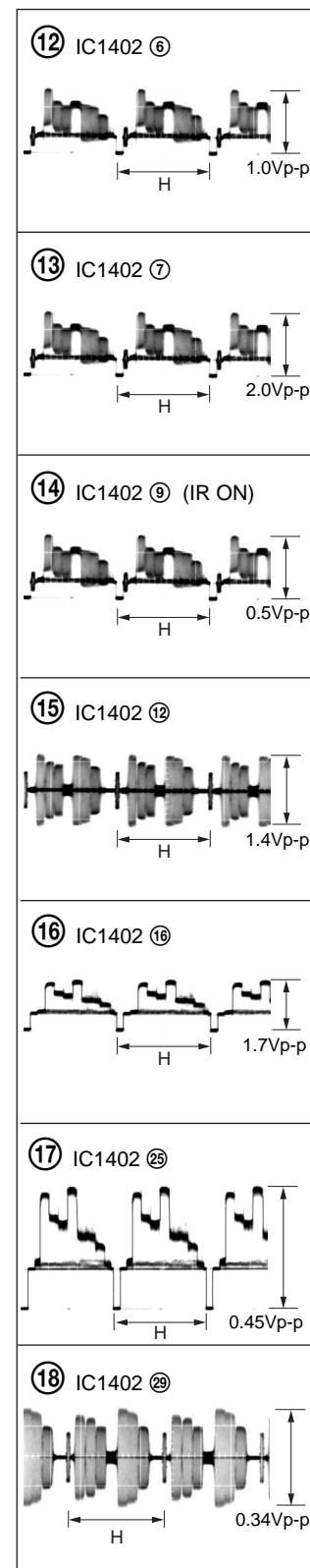
VC-227 BOARD (4/15) CAMERA REC/PB



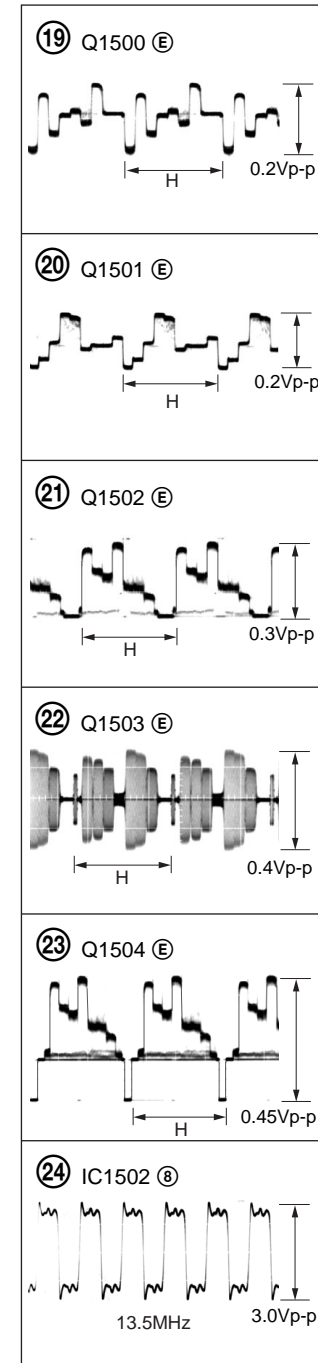
VC-227 BOARD (5/15)



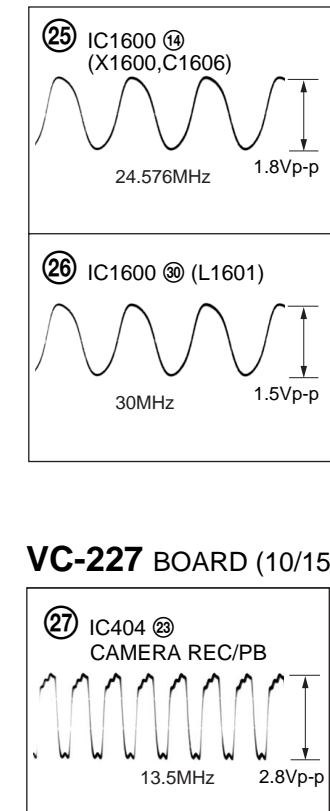
VC-227 BOARD (6/15) CAMERA REC/PB



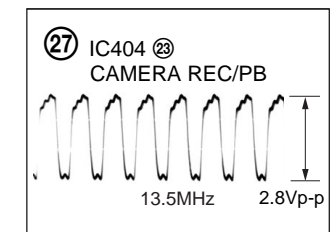
VC-227 BOARD (7/15) CAMERA REC/PB



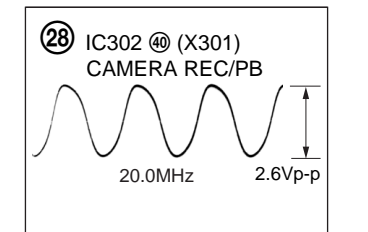
VC-227 BOARD (8/15) CAMERA REC/PB



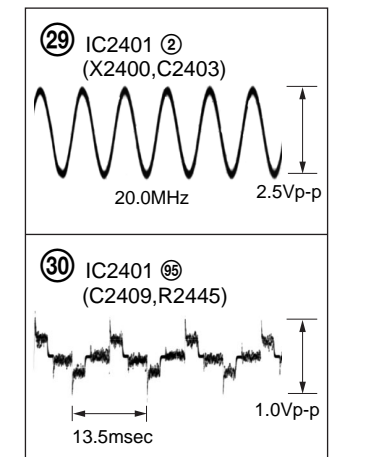
VC-227 BOARD (10/15)



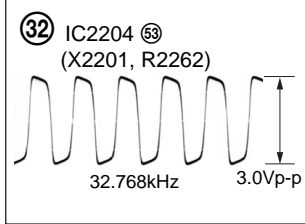
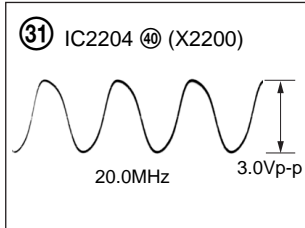
VC-227 BOARD (11/15)



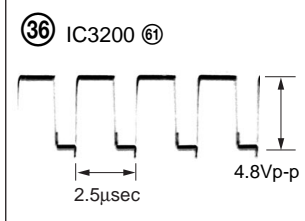
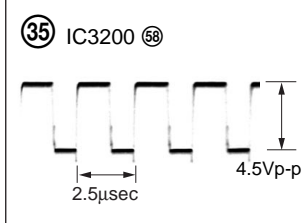
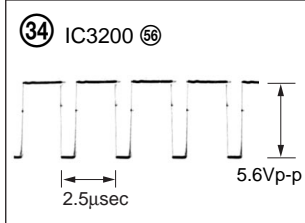
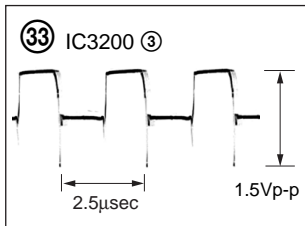
VC-227 BOARD (12/15) CAMERA REC/PB



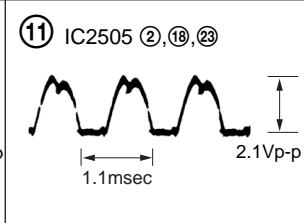
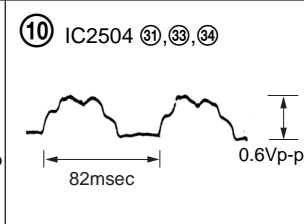
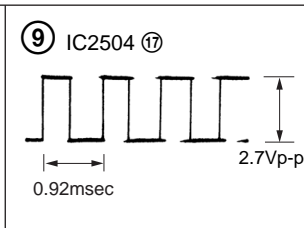
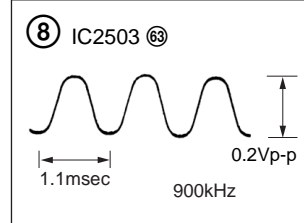
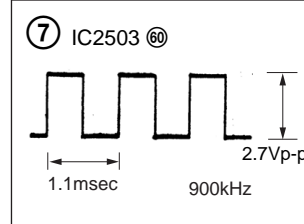
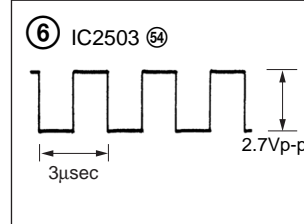
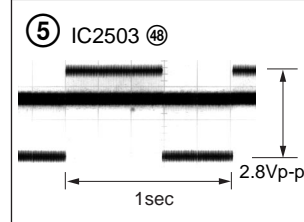
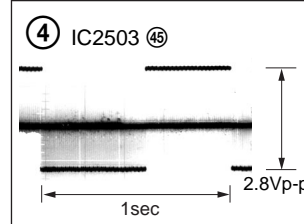
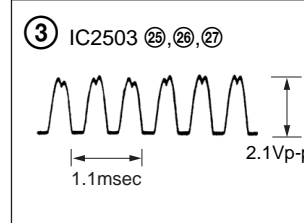
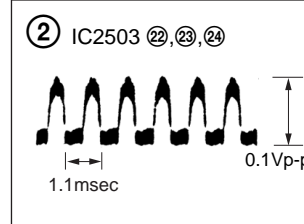
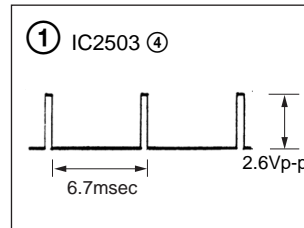
VC-227 BOARD (13/15)
CAMERA REC/PB



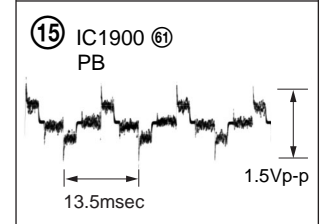
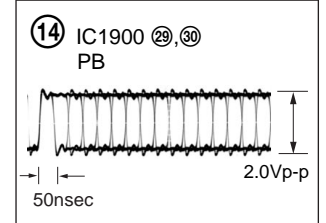
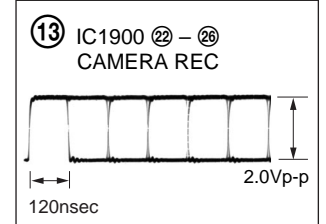
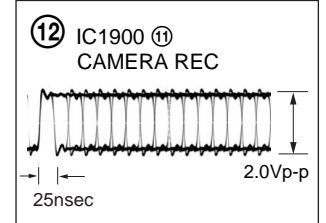
VC-227 BOARD (15/15)
CAMERA REC



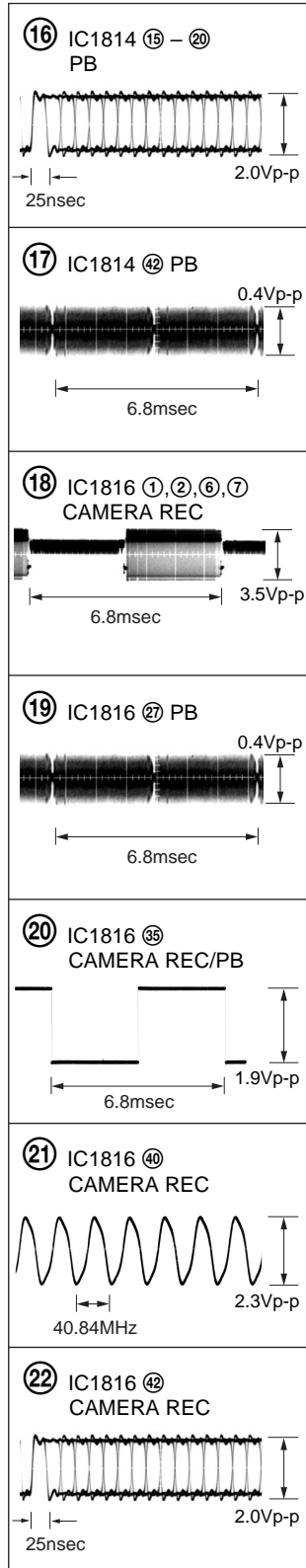
MR-44 BOARD (2/5)
CAMERA REC/PB



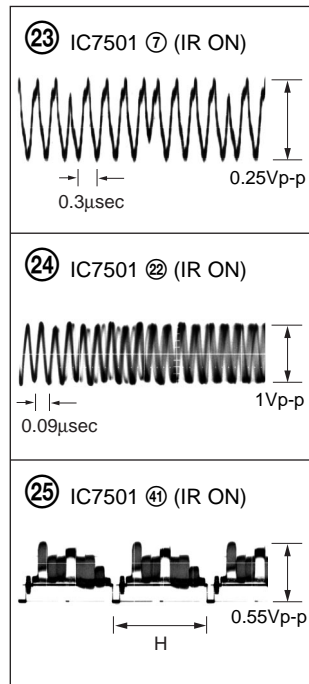
MR-44 BOARD (3/5)



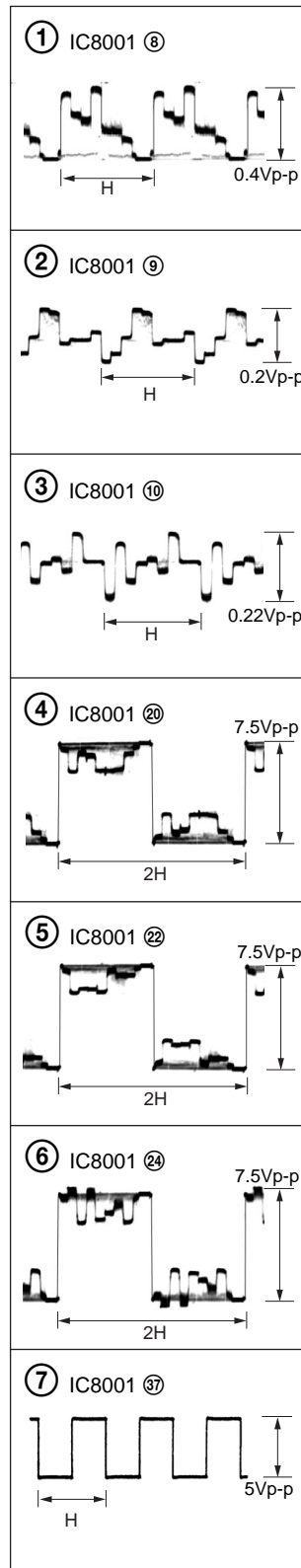
MR-44 BOARD (4/5)



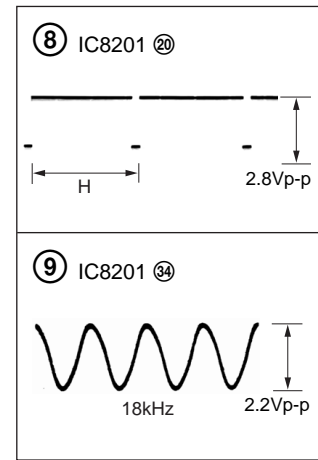
MR-44 BOARD (5/5)
CAMERA REC/PB



PD-125 BOARD (1/2)
CAMERA REC/PB



PD-125 BOARD (2/2)
CAMERA REC/PB



VF-138 BOARD (1/2)
 CAMERA REC/PB
