

1

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

I

J

VC-80 BOARD (1/4)
CAM I (TG/SH, SG, MX)

TG/SH BLOCK

(D-18) (D-17)
Q131, 132
V SUB REG

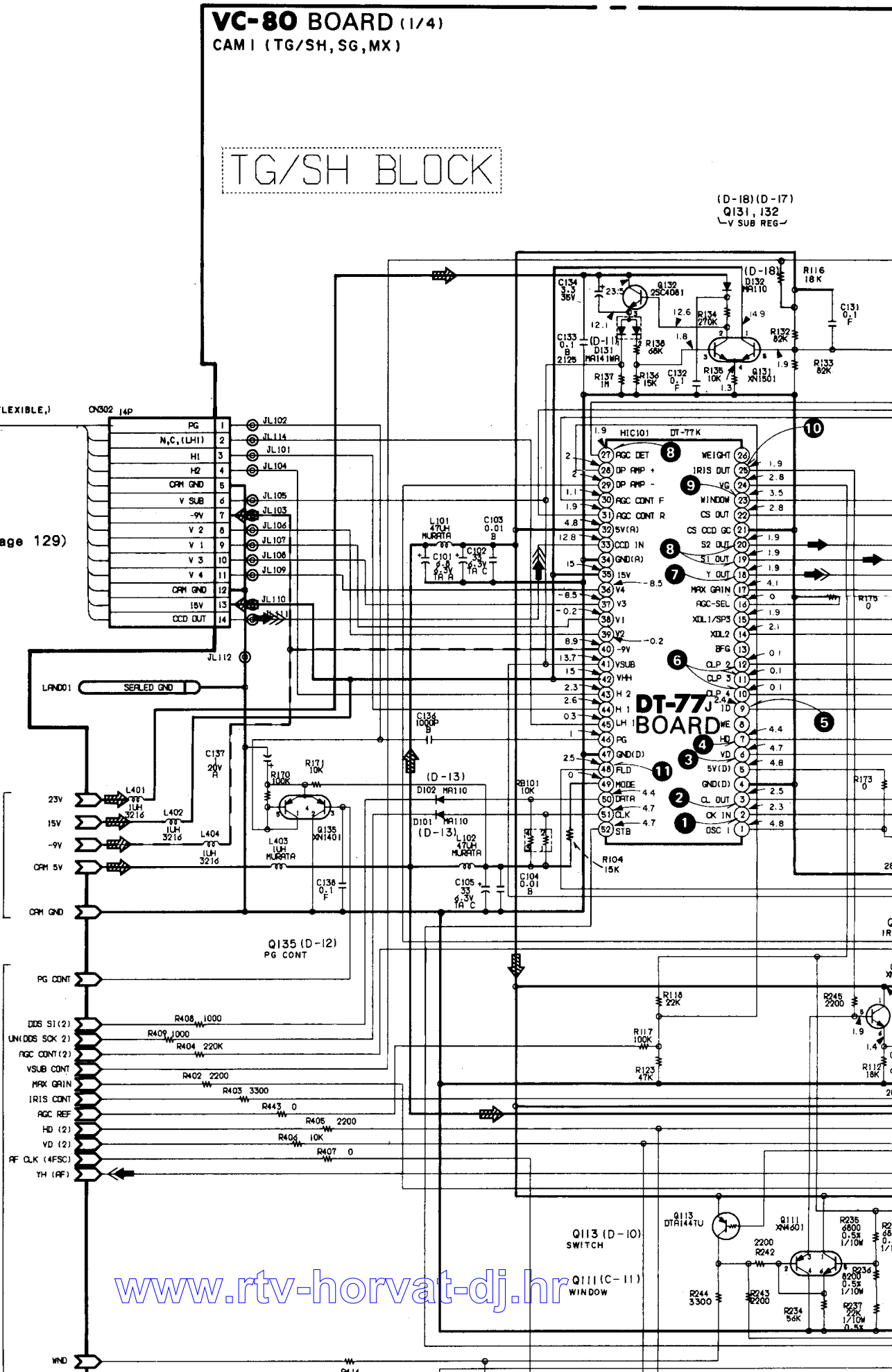
TO CD-43 BOARD
CN301

(See Page 129)

TO VC-80 BOARD(3/4)
CAM 3 (AF, FC)

(See Page 121)

TO VC-80 BOARD(3/4)
CAM 3 (AF, FC)



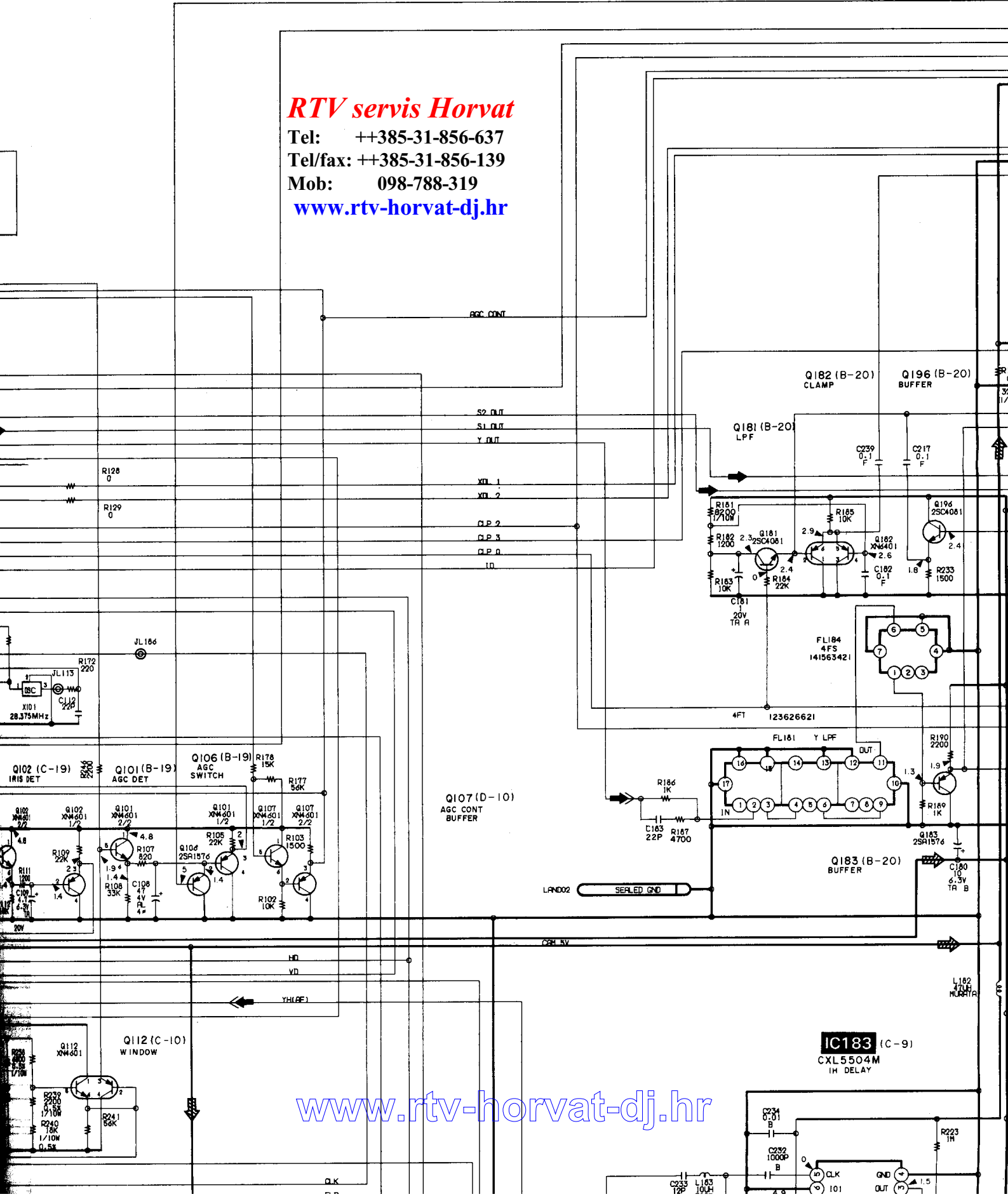
RTV servis Horvat

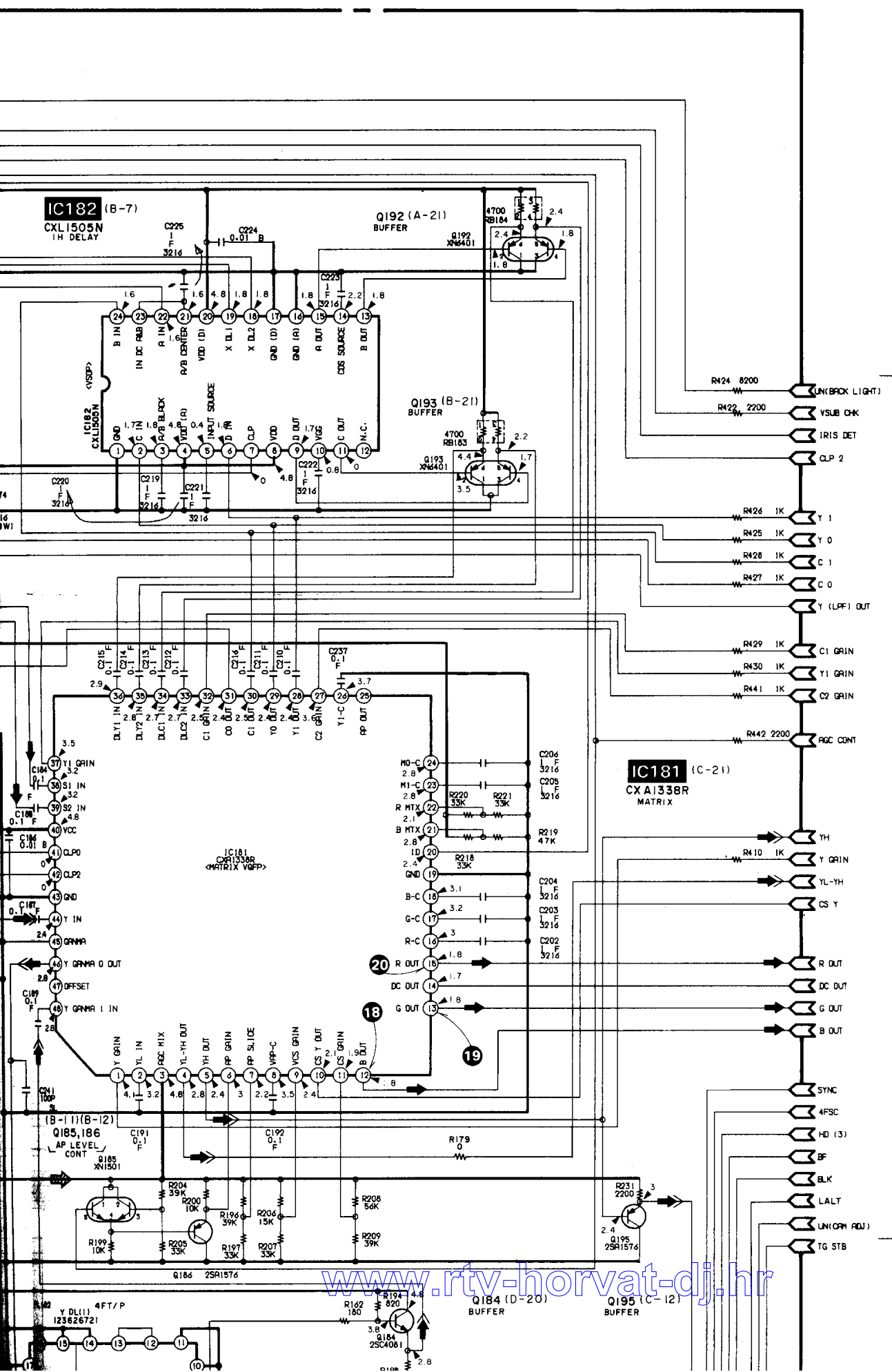
Tel: ++385-31-856-637

Tel/fax: ++385-31-856-139

Mob: 098-788-319

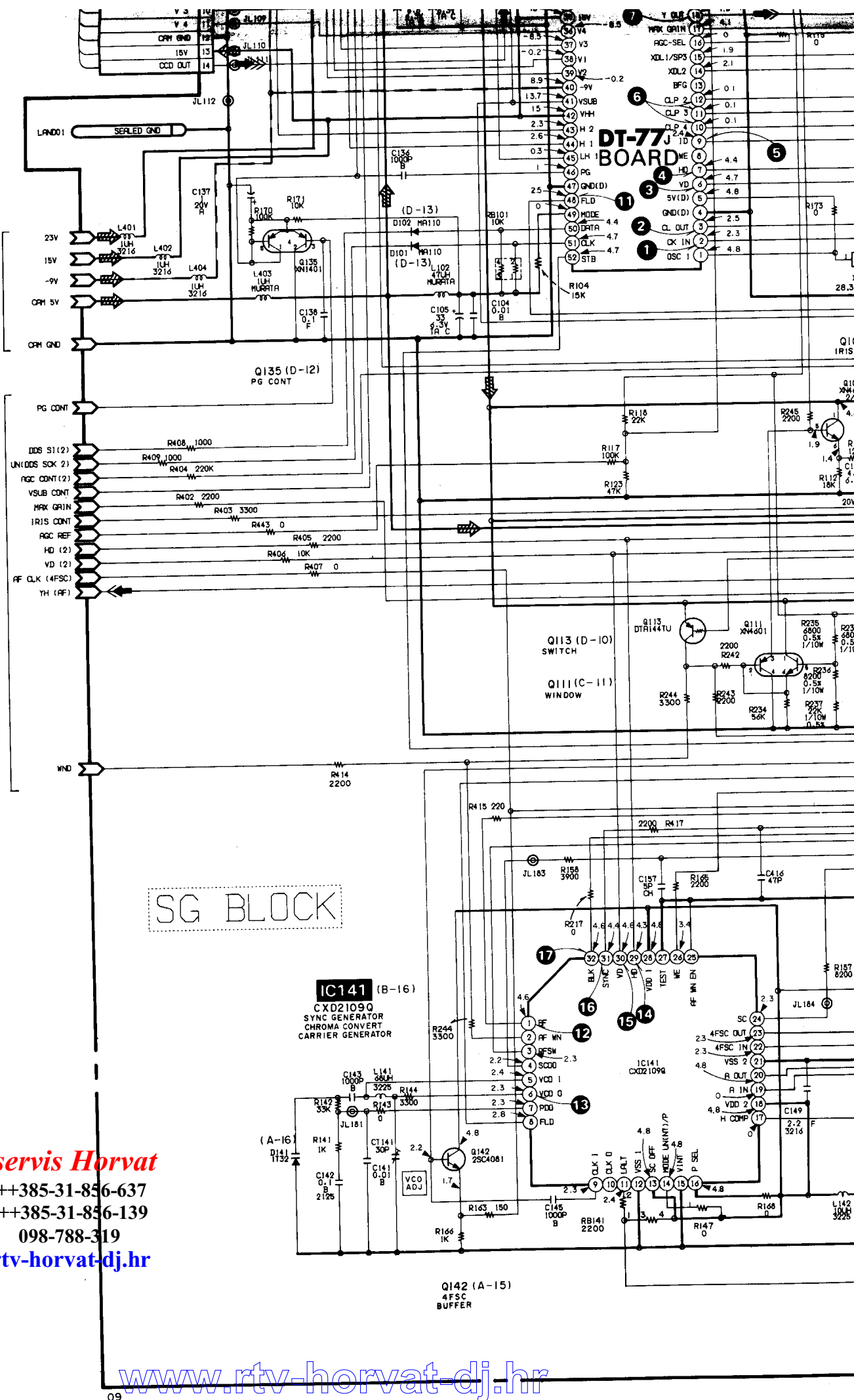
www.rtv-horvat-dj.hr





TO VC-80 BOARD (2/4)
CAM 2
(CP, ED, AW, EVR)
(See Page 115)

E
F
G
H
I
J
K
L
M
N
O

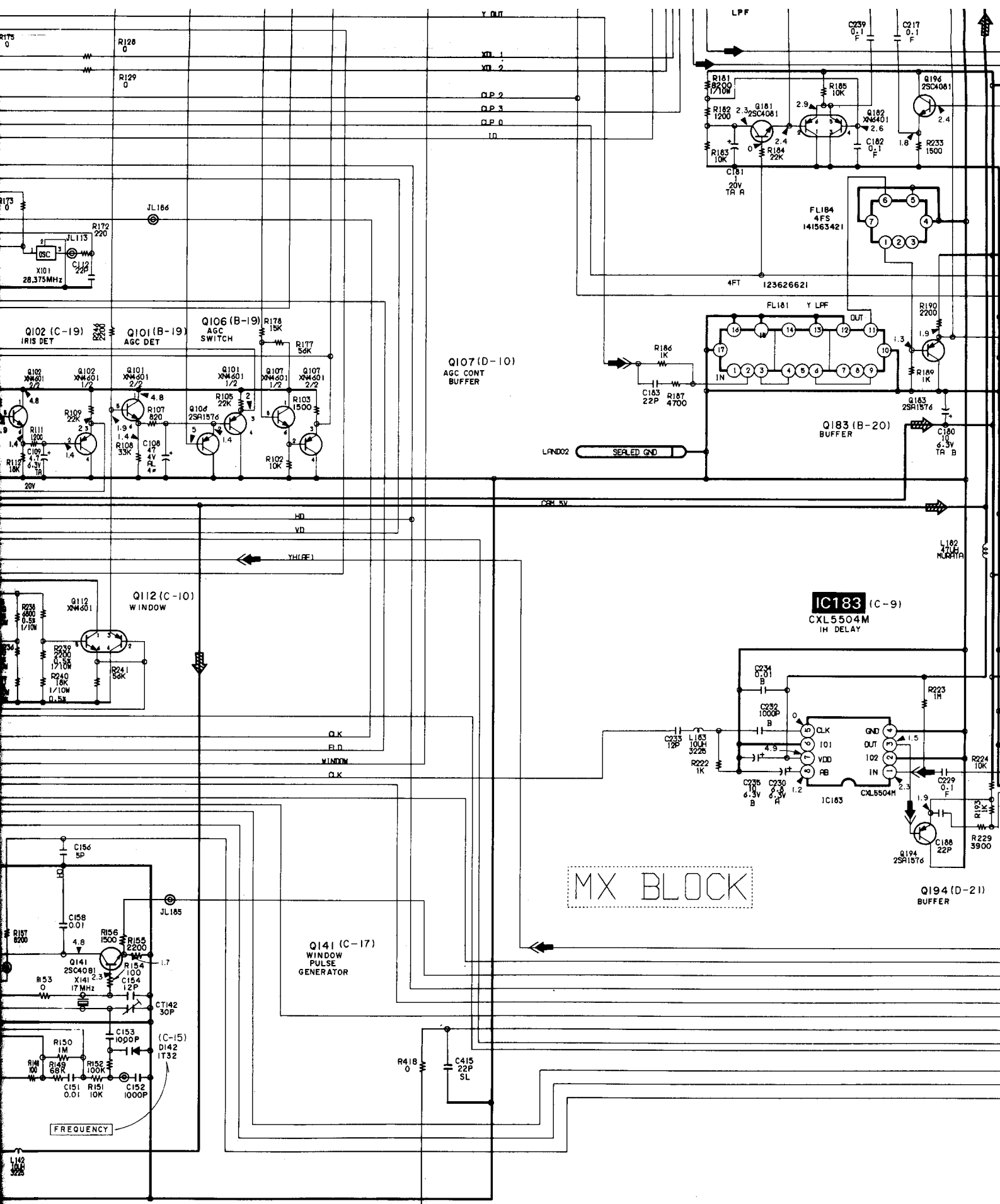


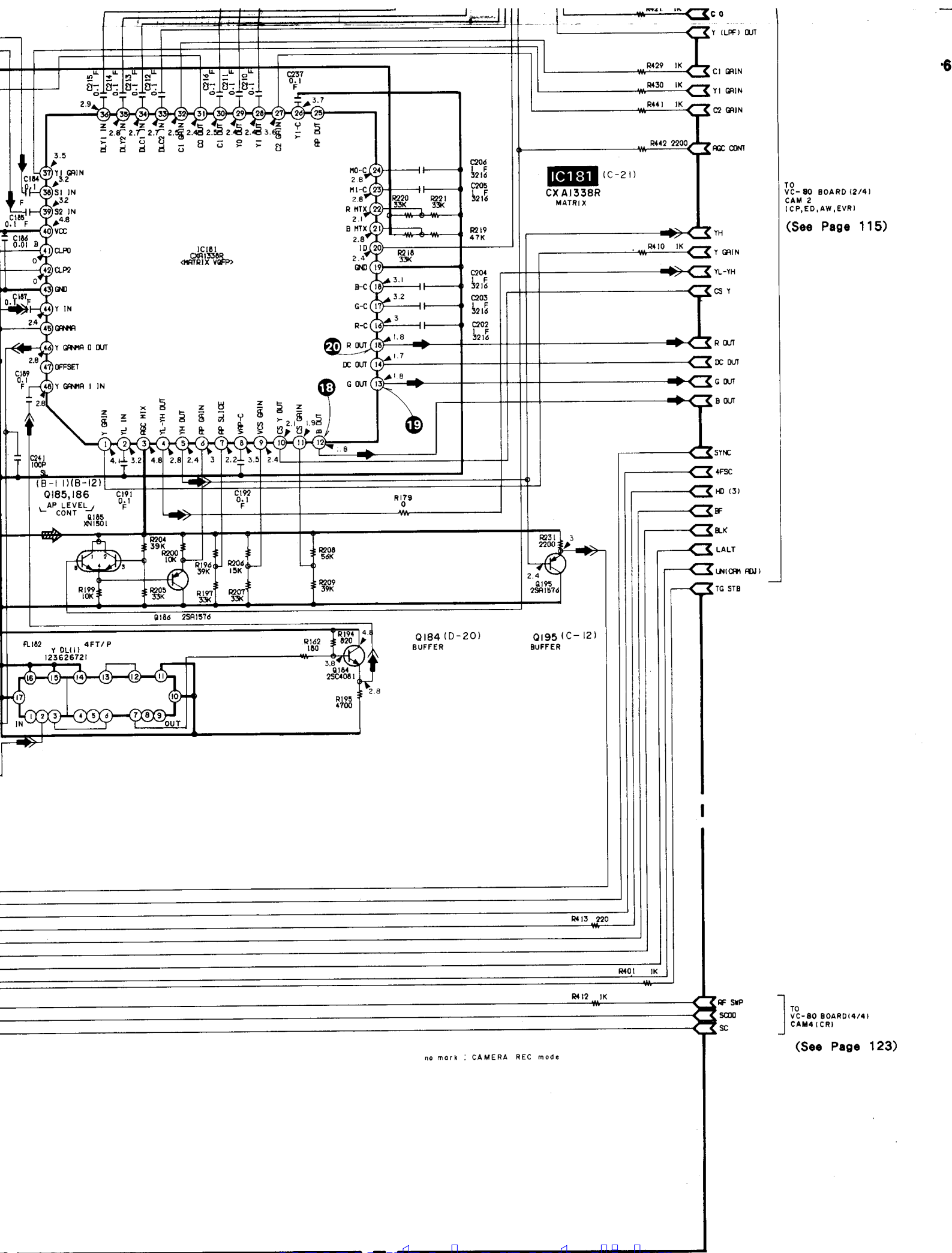
TO VC-80 BOARD(3/4)
CAM 3 (AF, FC)
(See Page 120)

(See Page 121)

TO VC-80 BOARD(3/4)
CAM 3 (AF, FC)

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TO VC-80 BOARD (2/4)
CAM 2
(CP, ED, AW, EVR)
(See Page 115)

TO VC-80 BOARD (4/4)
CAM 4 (CR)
(See Page 123)

no mark : CAMERA REC mode

VC-80 (CAMERA) SCHEMATIC DIAGRAMS

— Ref. No. VC-80 BOARD: 2000 series —

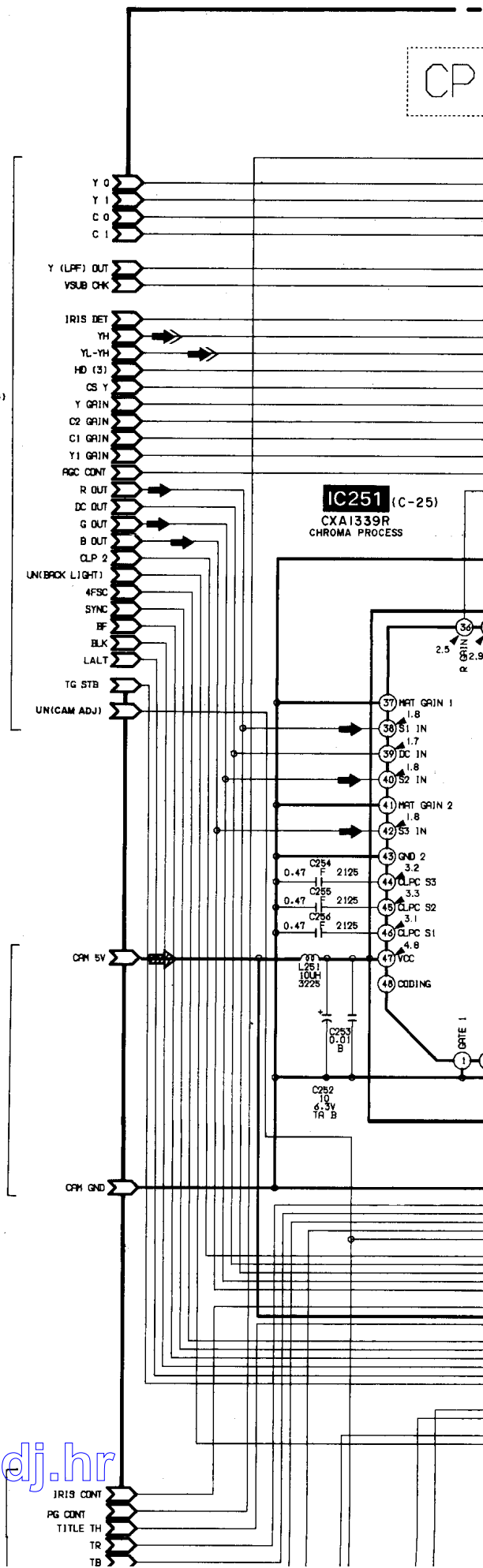
- For schematic diagrams.
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.

A
B
C
D
E
F
G
H
I
J
K

1 2 3 4

TO
VC-80 BOARD(1/4)
CAM 1
(TG/SH,SG,MX)
(See Page 114)

TO
VC-80 BOARD(3/4)
CAM 3 (AF,FC)
(See Page 120)



5

6

7

8

9

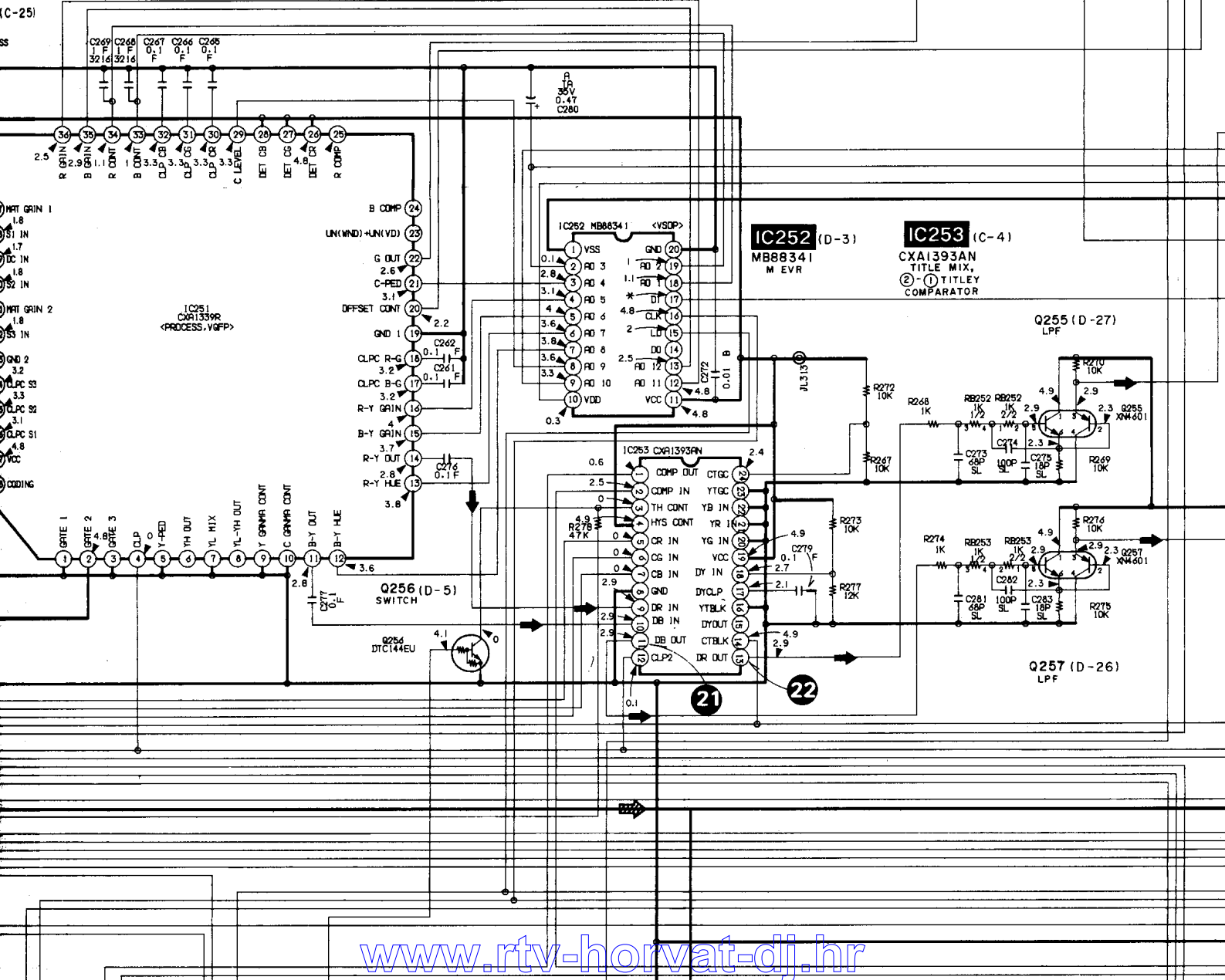
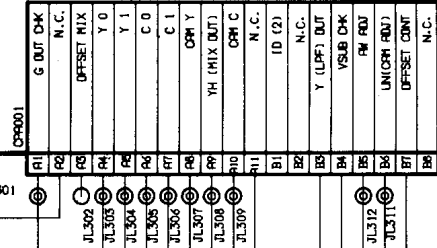
10

11

12

CHECK POINT ARR

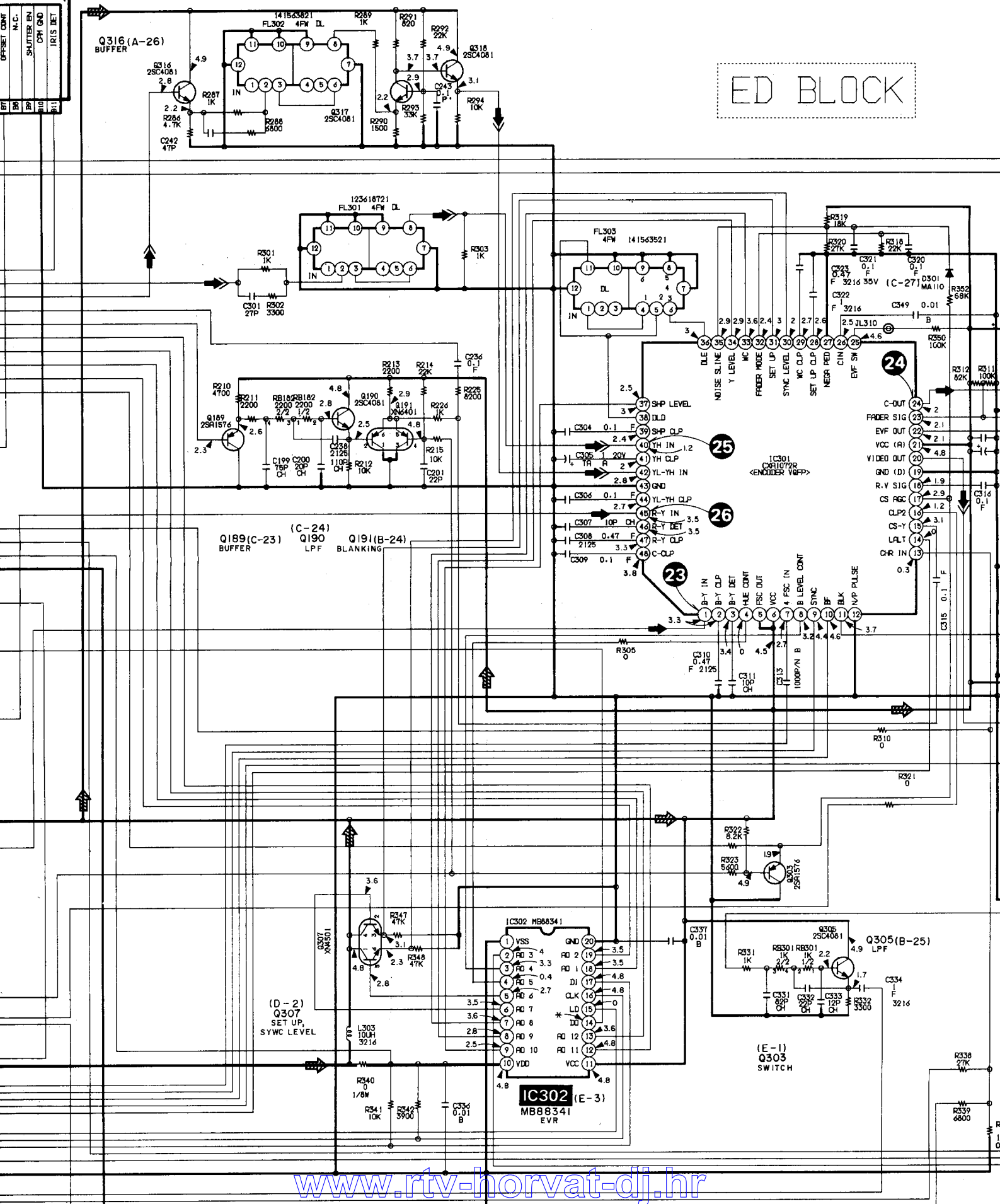
CP BLOCK



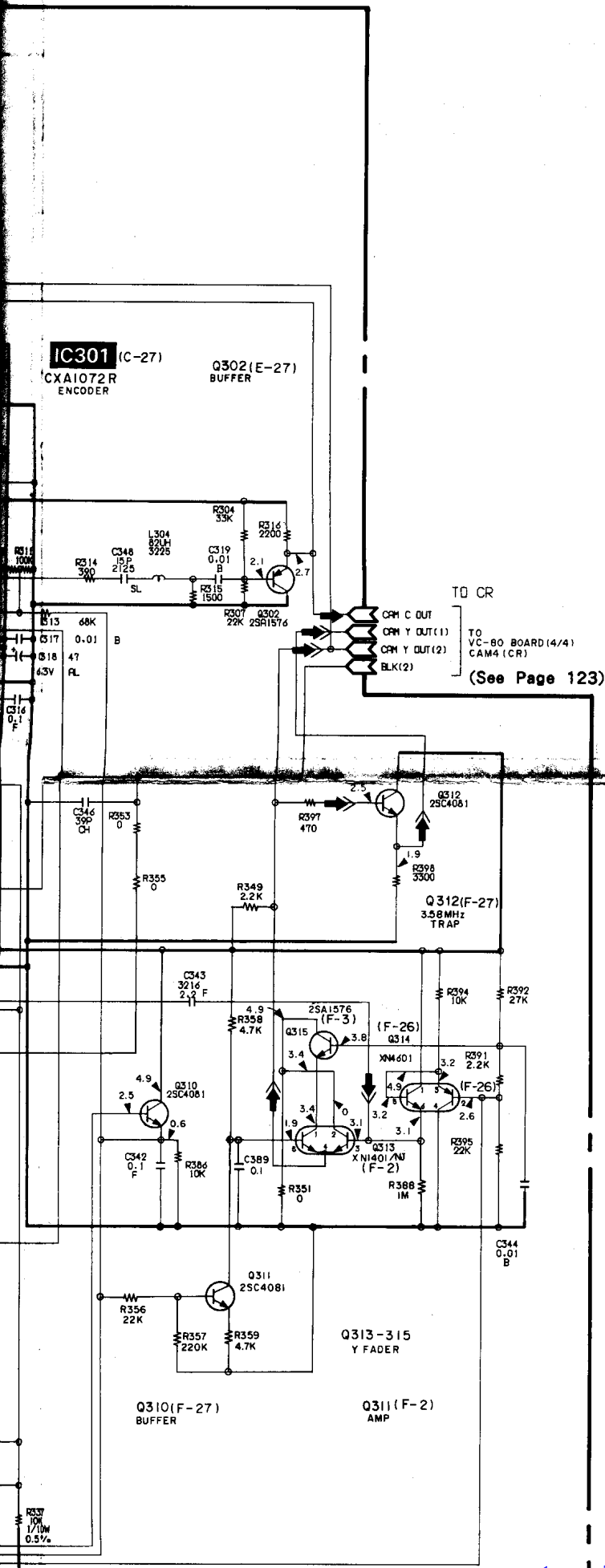
ARRAY

(A-27) Q317,318(A-26)
AMP

ED BLOCK

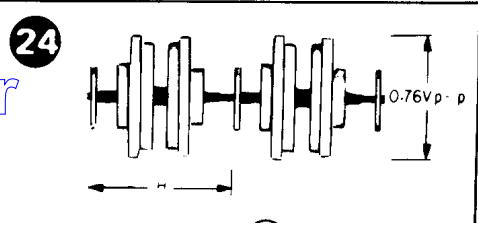
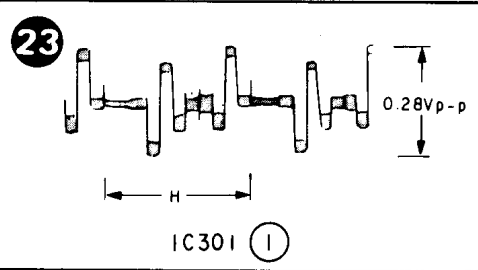
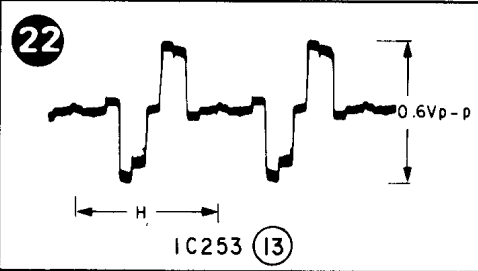
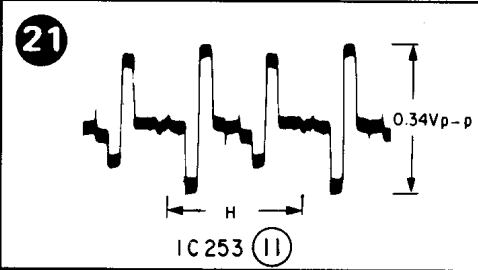


no mark: CAMERA REC mode
*: can not be measured

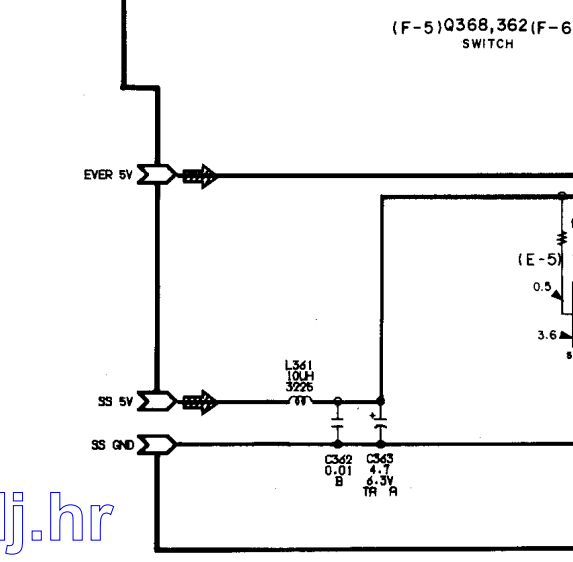
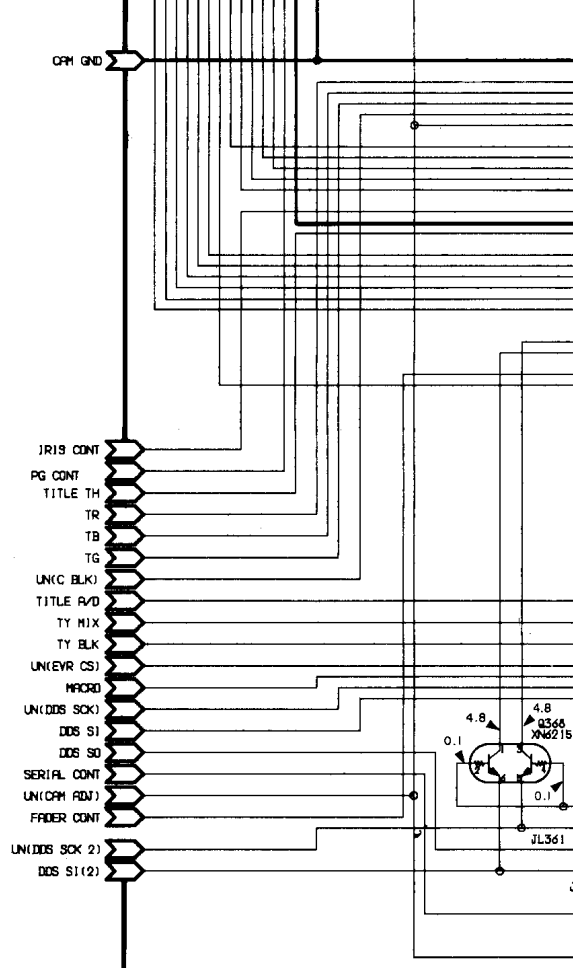
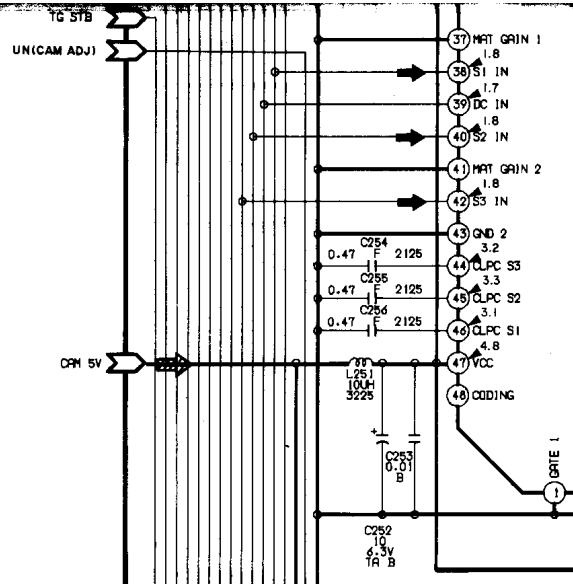


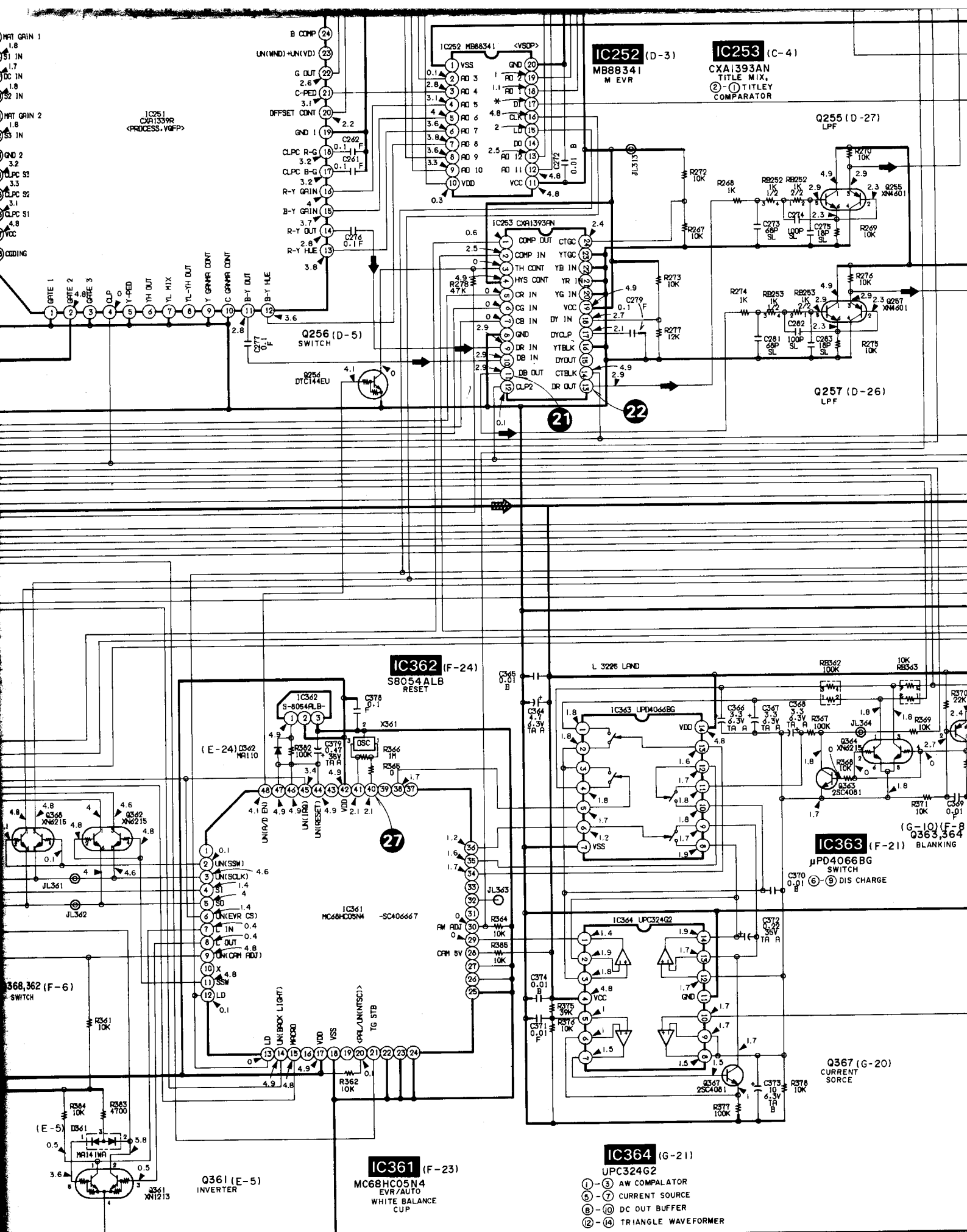
TO CR
 TO VC-80 BOARD (4/4)
 CAM4 (CR)
 (See Page 123)

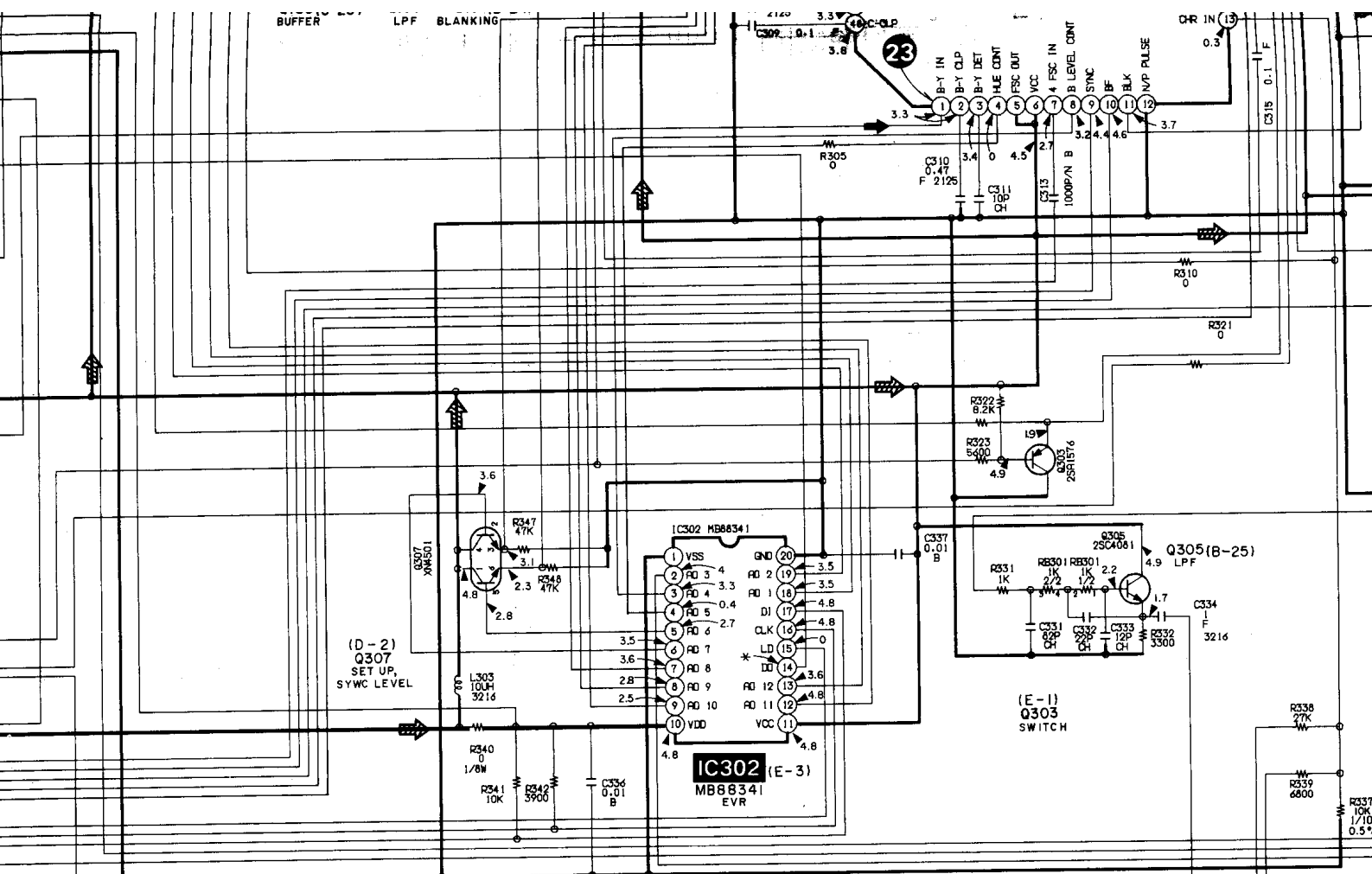
VC-80 BOARD (CP, ED, EVR)



F
G
H
I
J
K
L
M
N
O







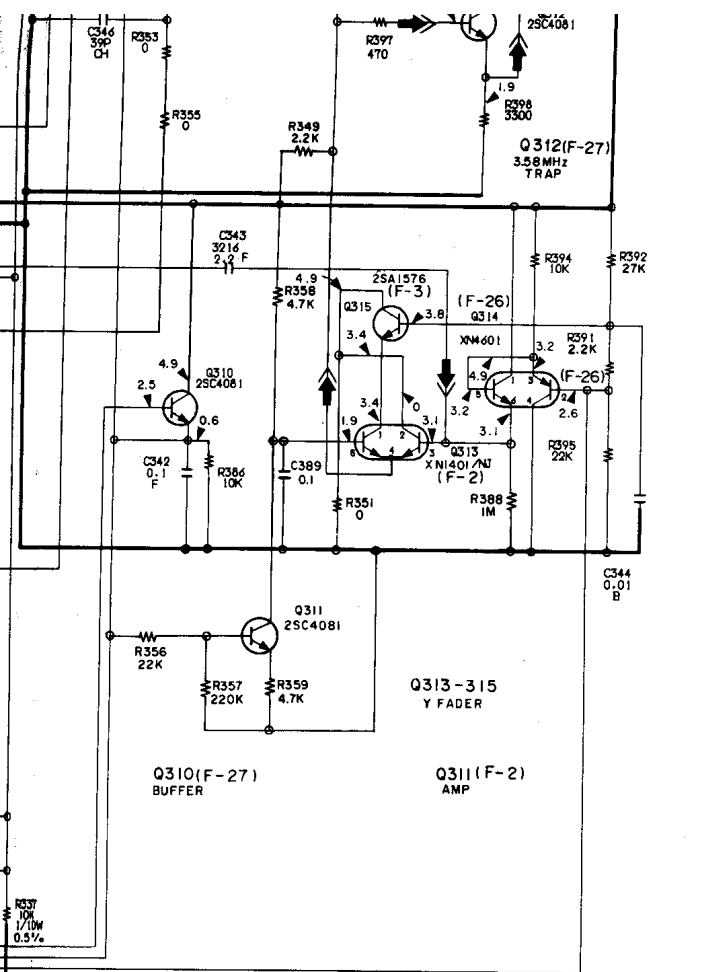
EVR BLOCK

Q365 (F-20)
PULSE
SEP

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CAMERA

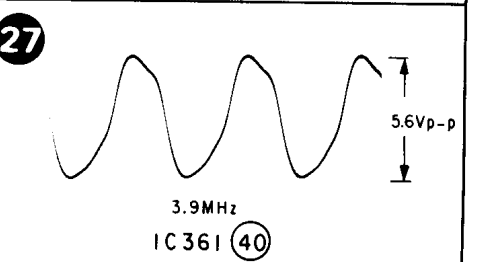
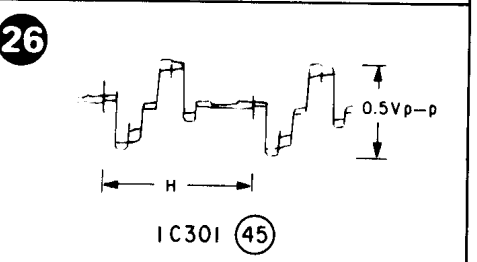
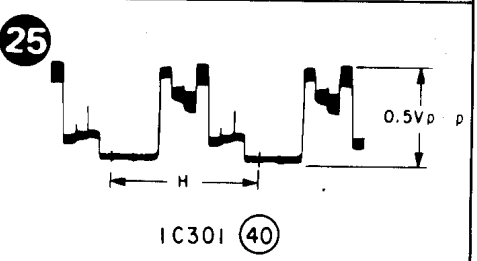
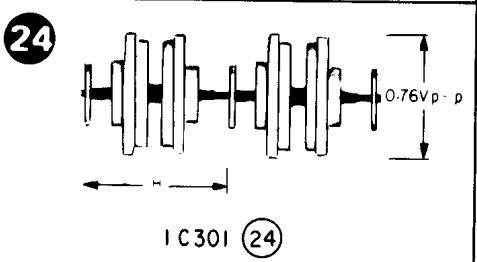
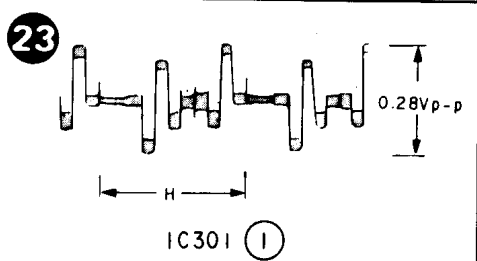
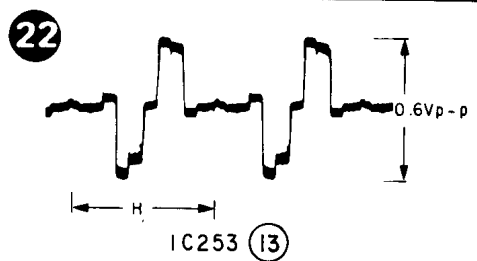
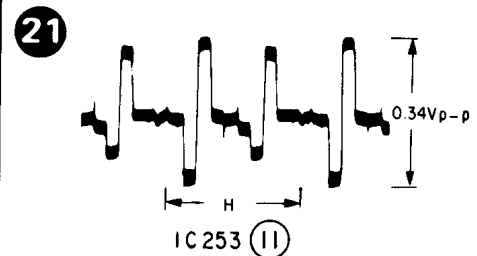


VC-80 BOARD (2/4)
CAM 2 (CP, ED, AW, EVR)

• SIGNAL PATH

| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|----|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | ➔ | ➔➔ | | |
| PB | | | | |

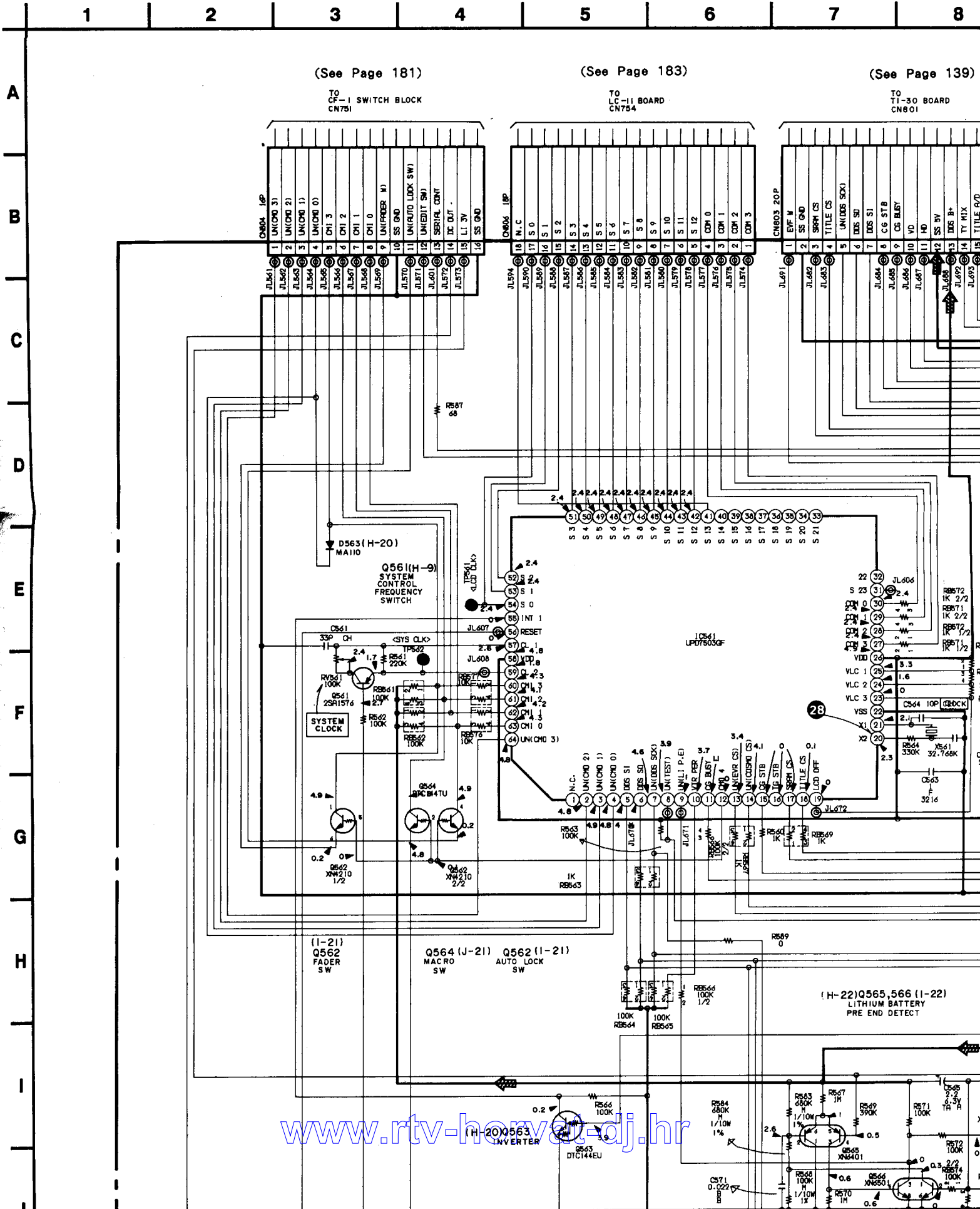
VC-80 BOARD (CP, ED, EVR)



VC-80 (CAMERA) SCHEMATIC DIAGRAMS

— Ref. No. VC-80 BOARD: 2000 series —

- For schematic diagrams.
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.



TO VS-67 BOARD (3/3) SERVO SYSTEM CONTROL W604

FP-184 (FLEXIBLE), CN604

(See Page 115)

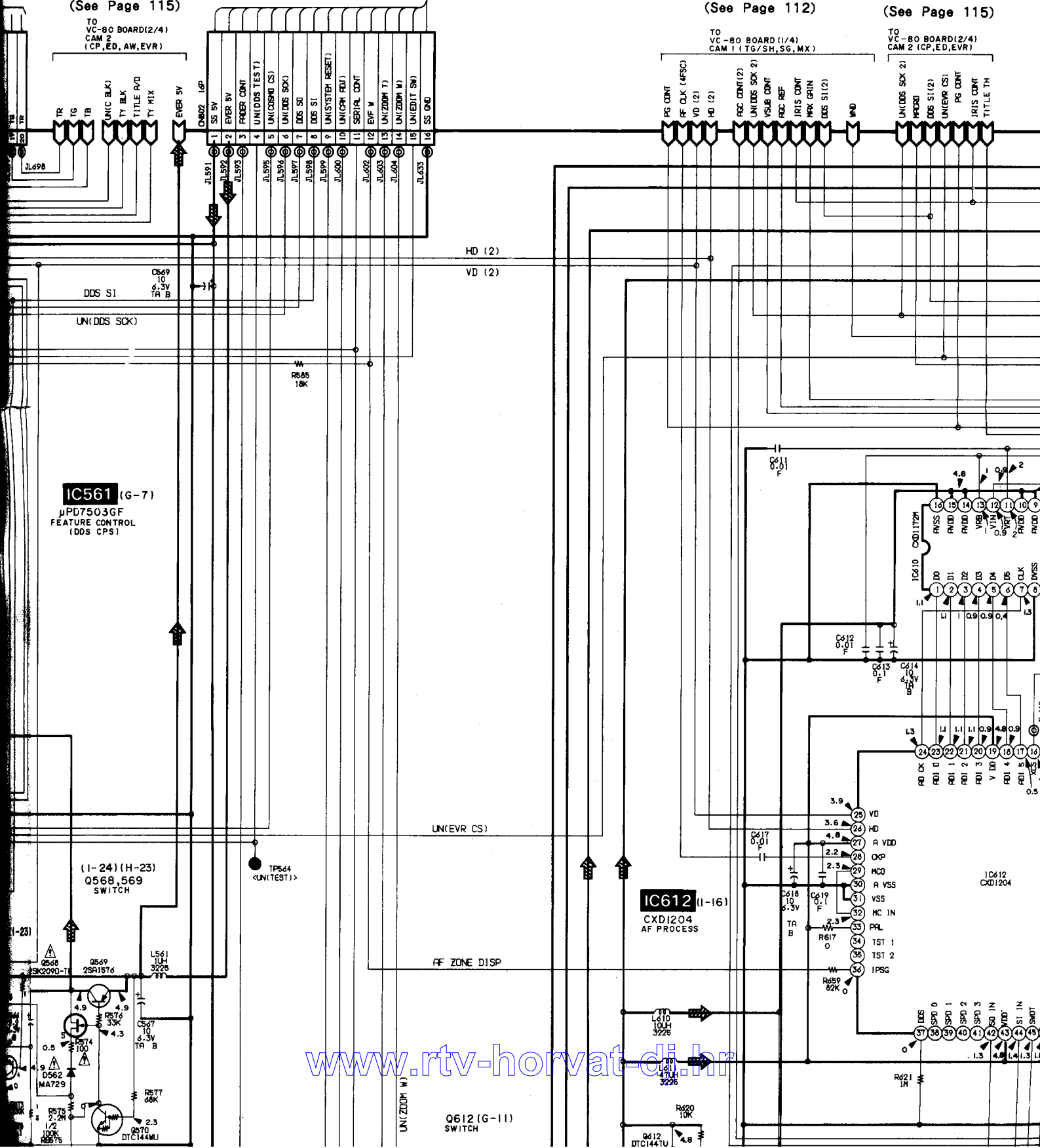
(See Page 112)

(See Page 115)

TO VC-80 BOARD (2/4) CAM 2 (CP, ED, AW, EVR)

TO VC-80 BOARD (1/4) CAM 1 (TG/SH, SG, MX)

TO VC-80 BOARD (2/4) CAM 2 (CP, ED, EVR)



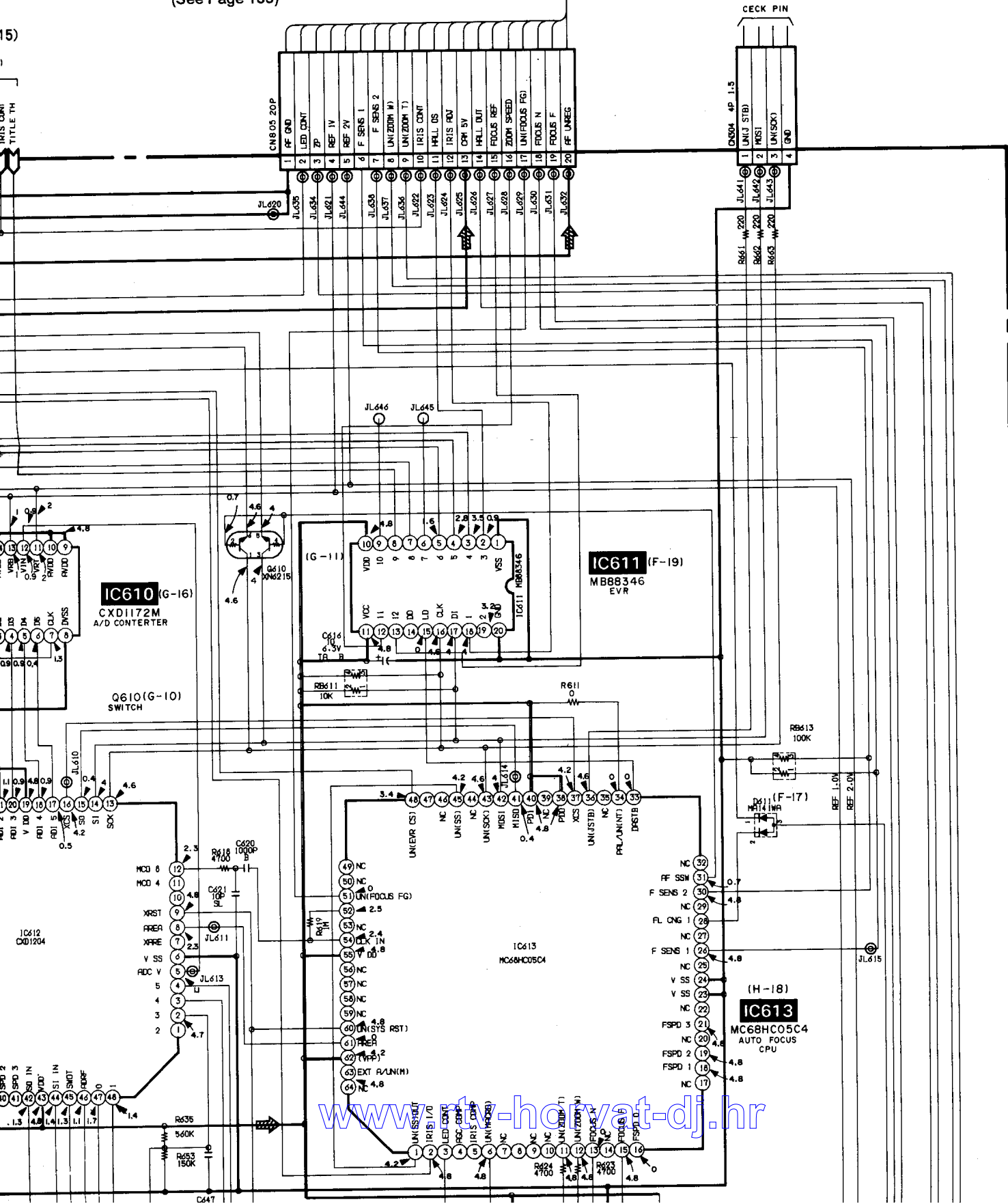
IC561 (G-7)
DPD7503GF
FEATURE CONTROL
(DDS CPS)

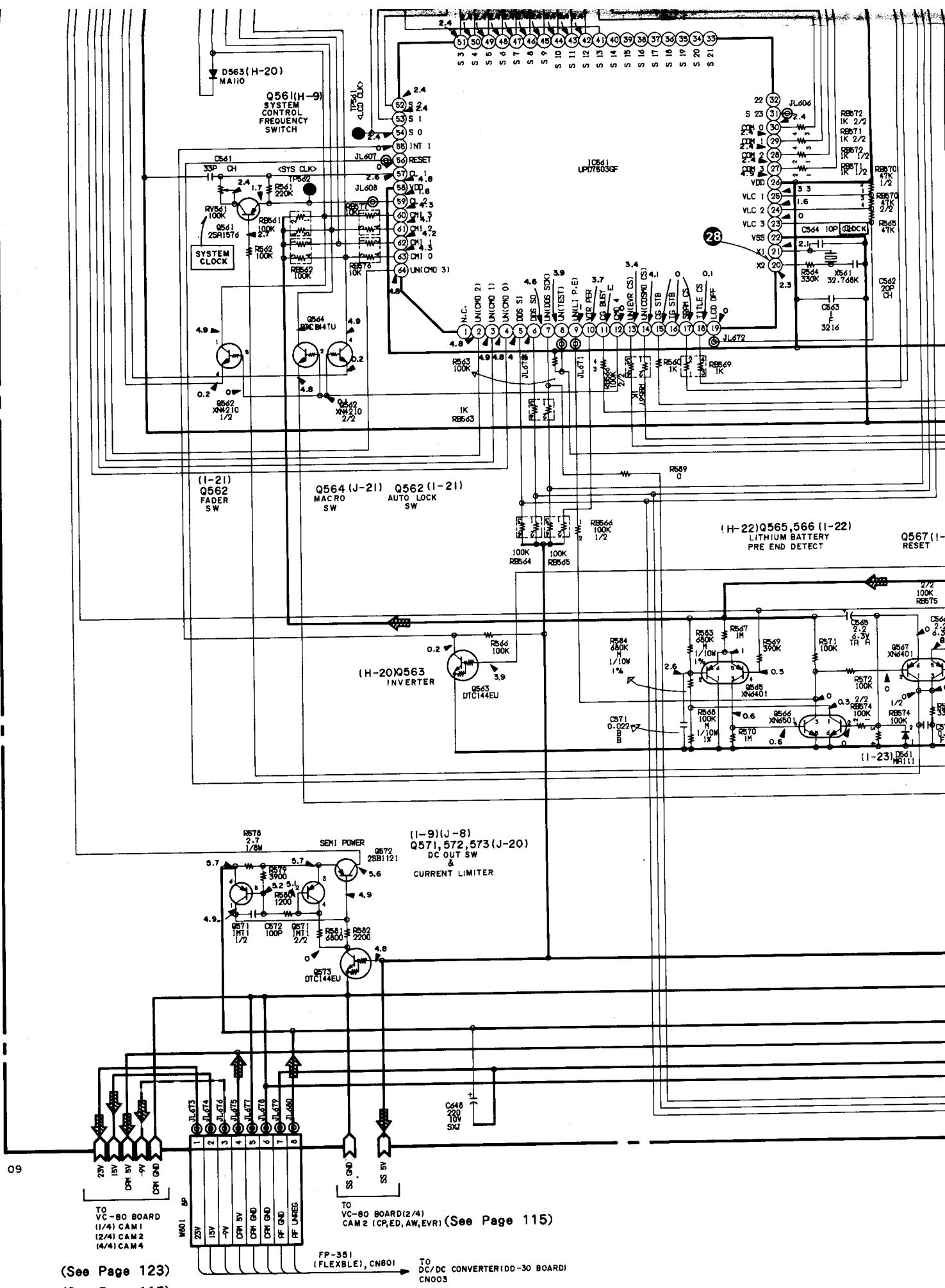
(1-24) (H-23)
Q568, 569
SWITCH

IC612 (I-16)
CXD1204
AF PROCESS

Q612 (G-11)
SWITCH

TO LD-33 BOARD W701
FP-187 (FLEXIBLE), CN701
(See Page 133)





(See Page 123)
 (See Page 115)
 (See Page 112)

(See Page 162)

IC561 (G-7)
 μPD7503GF
 FEATURE CONTROL
 (DDS CPS)

(I-24) (H-23)
Q568,569
 SWITCH

TP564
 <UN(TEST)>

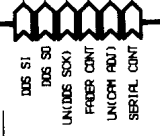
IC612 (I-16)
 CXD1204
 AF PROCESS

Q612 (G-11)
 SWITCH

Q570 (I-24)
 EVER 5V
 DET

Q614 (J-16) **Q613 (J-16)**
 HPF 2 HPF 1

IC614 (H-11)
 S-8054ALB

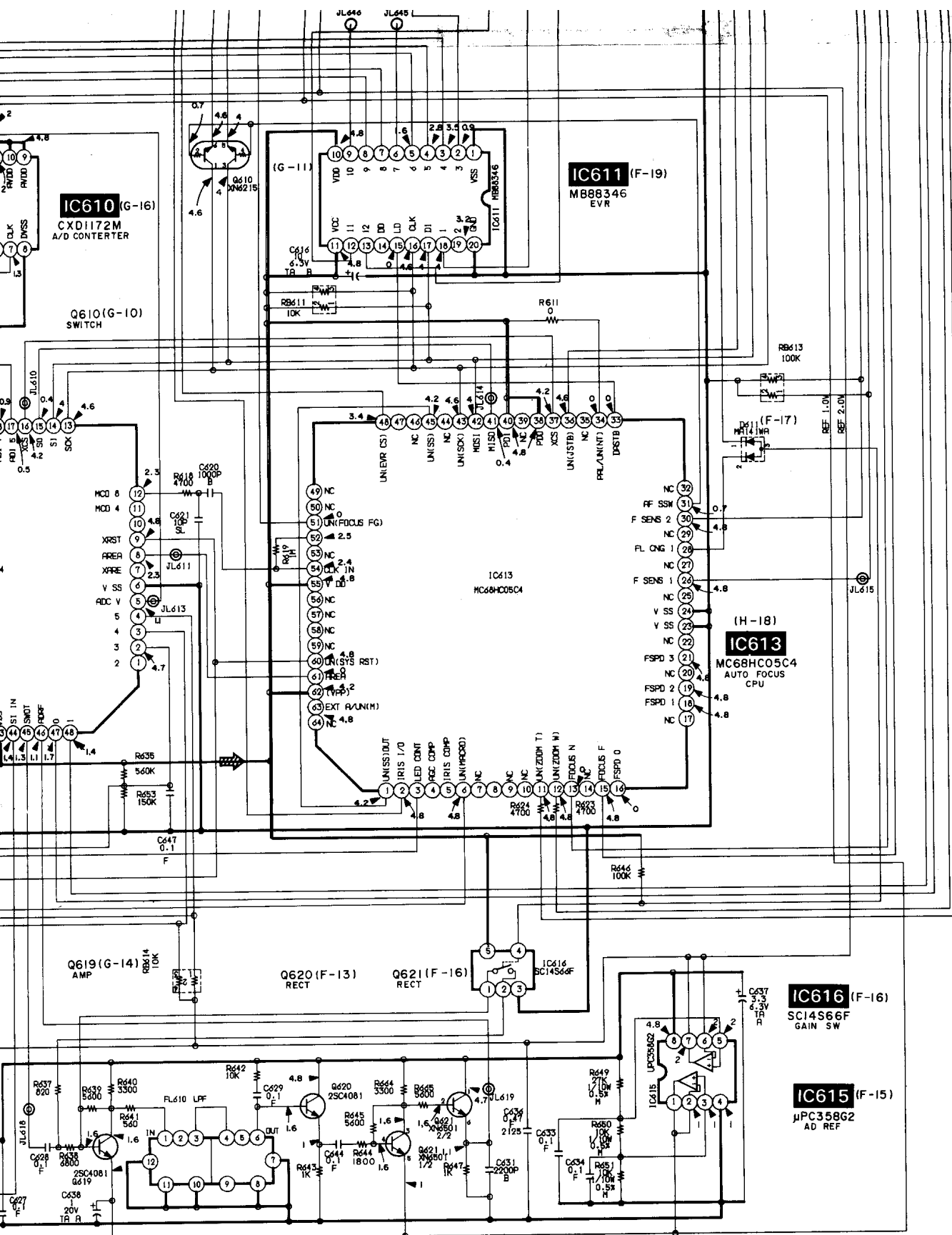


TO
 VC-80 BOARD (2/4)
 CAM2
 (CP,ED,AW,EVR)

(See Page 115)

TO
 VC-80 BOARD (1/4)
 CAM1 (TG/SH,SG,MX)

(See Page 112)

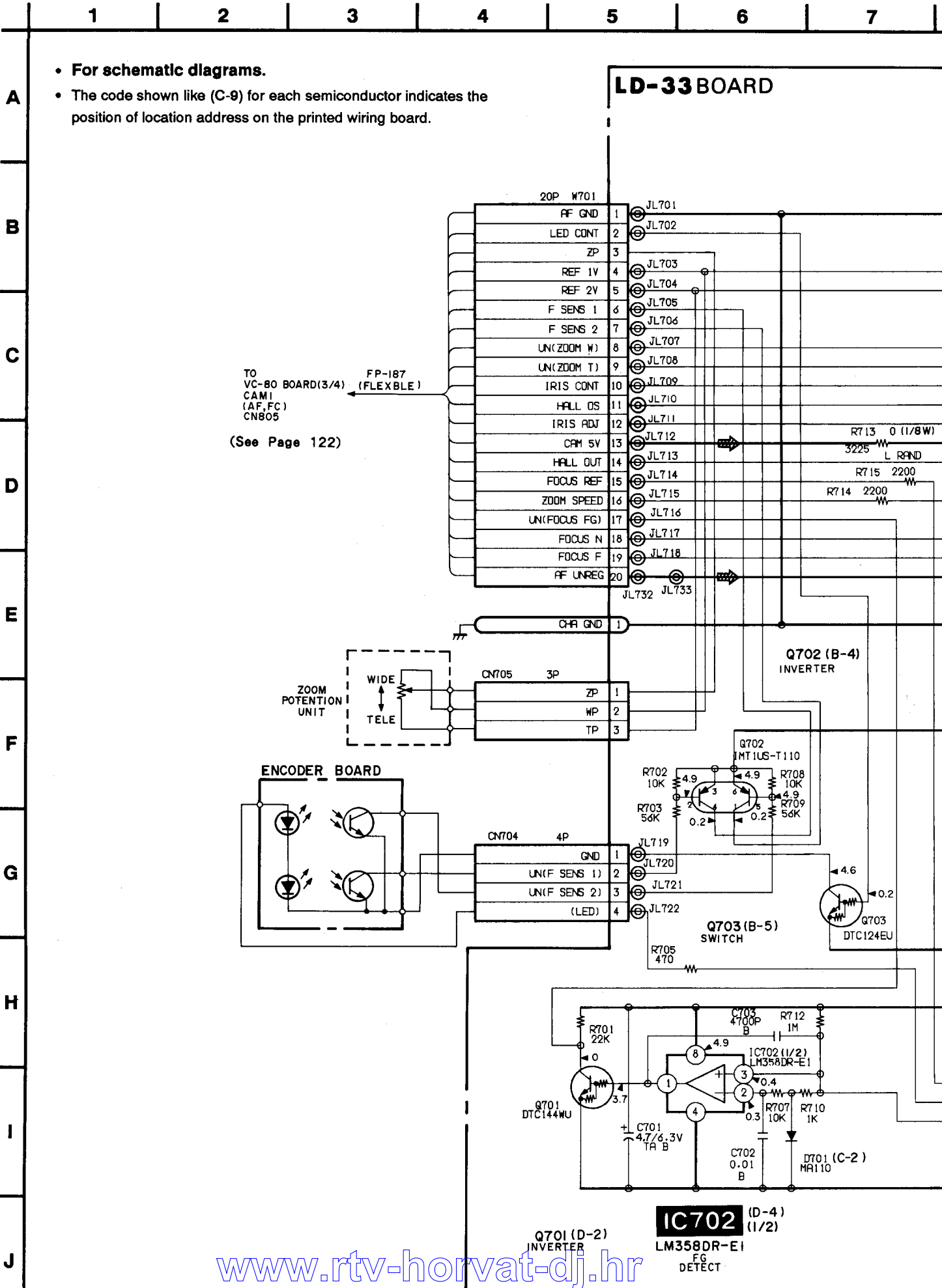


no mark : CAMERA REC mode
 * : can not be measured

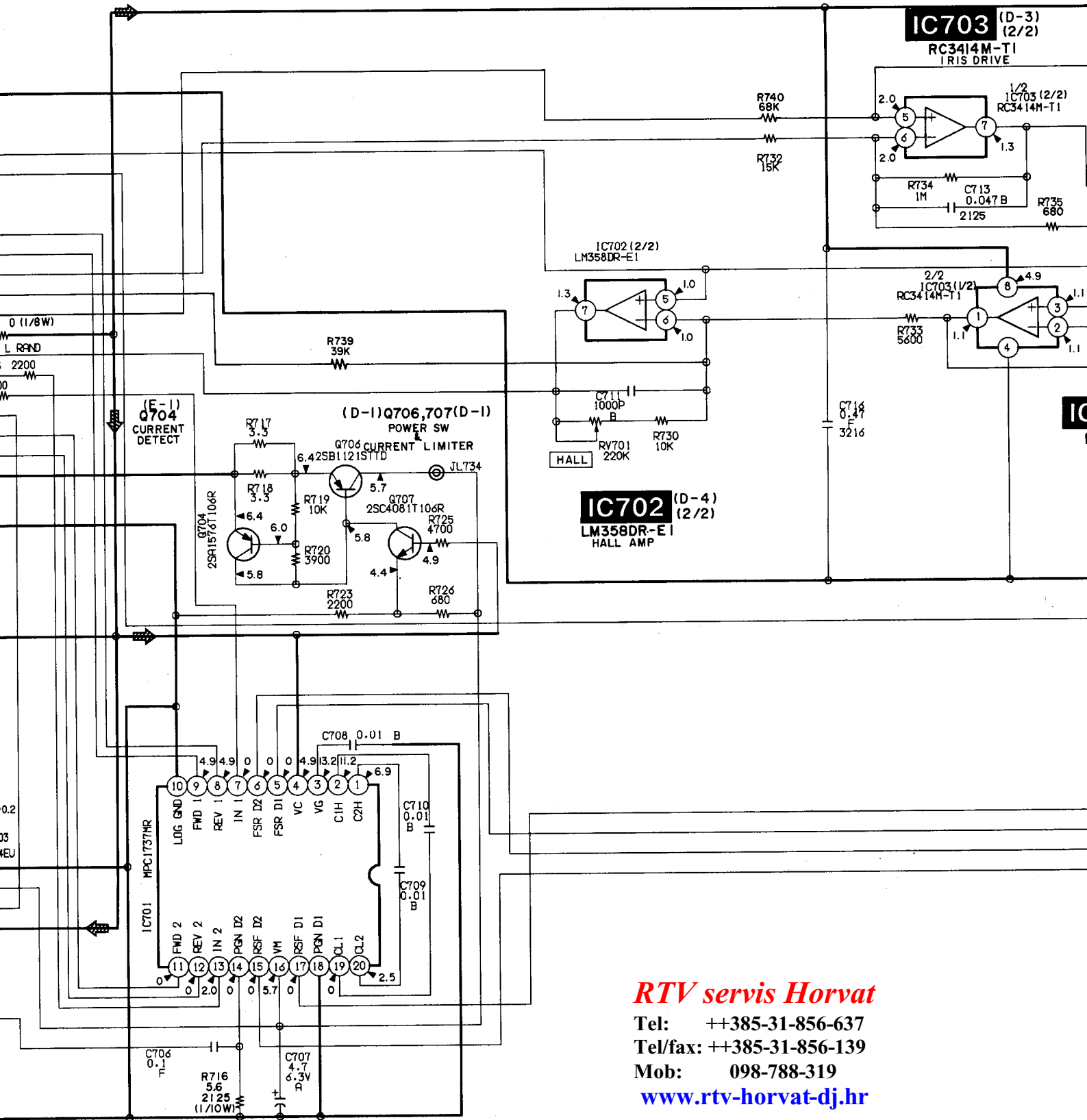
VC-80 BOARD (3/4)
CAM 3 (AF, FC)

LD-33 (IRIS/FOCUS/ZOOM/MOTOR DRIVE) SCHEMATIC DIAGRAMS

— Ref. No. LD-33 BOARD: 3000 series —



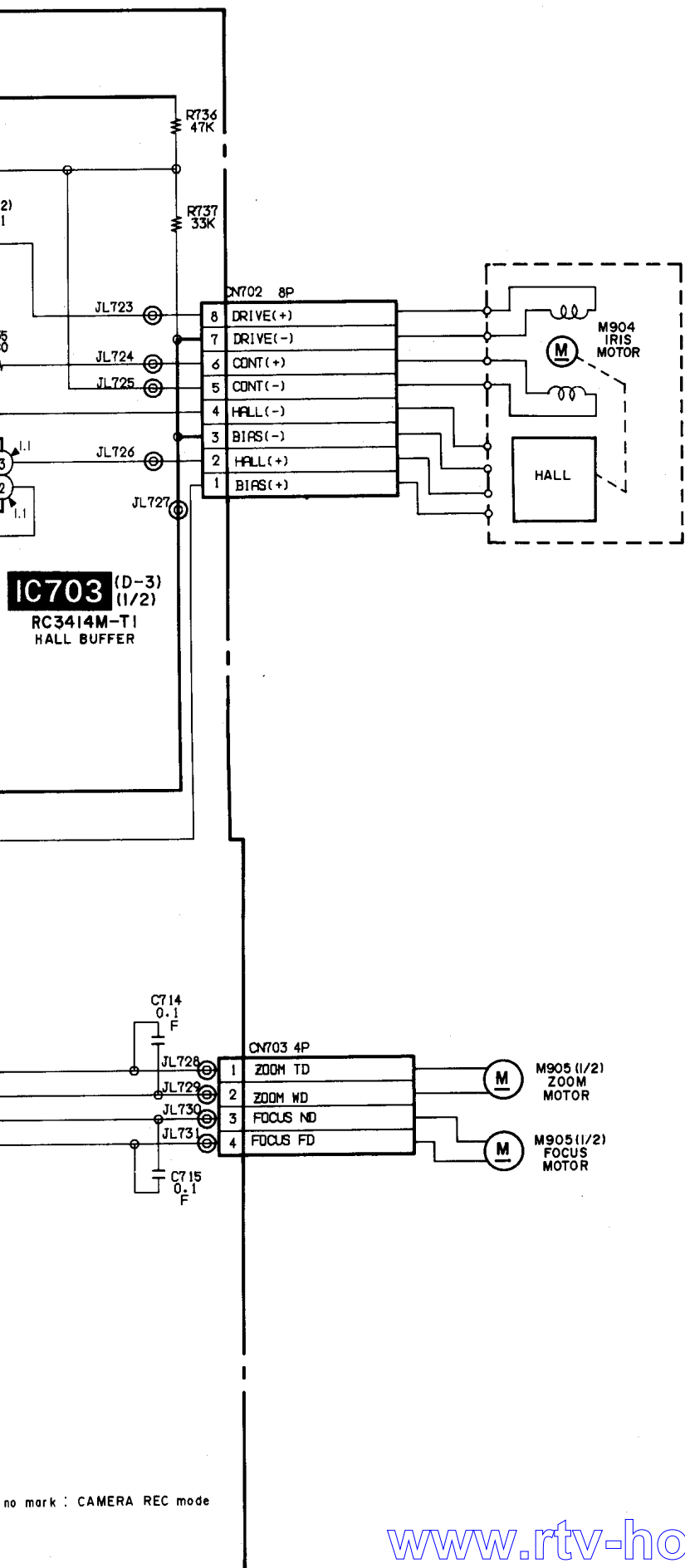
www.rtv-horvat-dj.hr



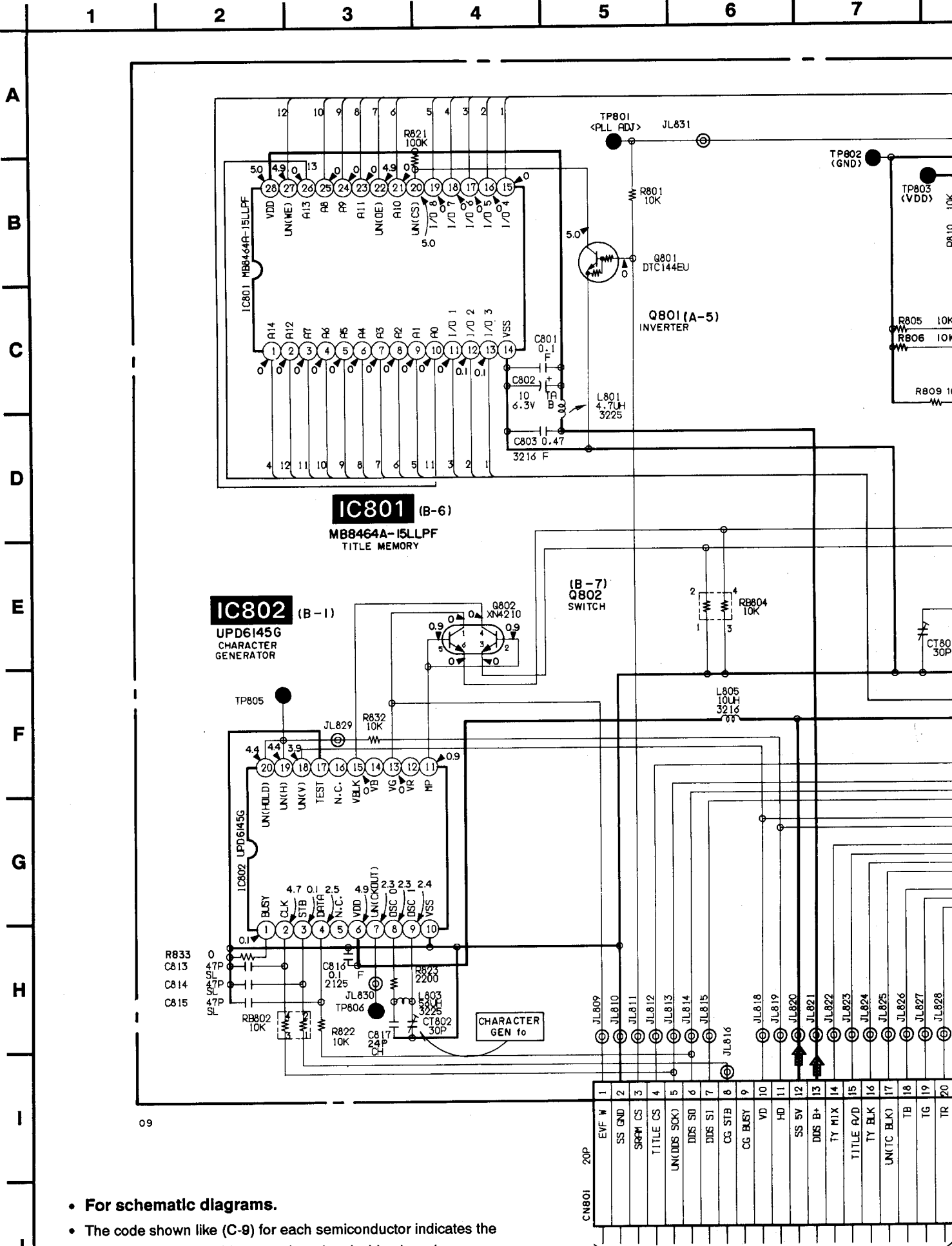
IC701 (B-2)
MPC1737MR
 FOCUS/ZOOM MOTOR DRIVE

www.rtv-horvat-dj.hr

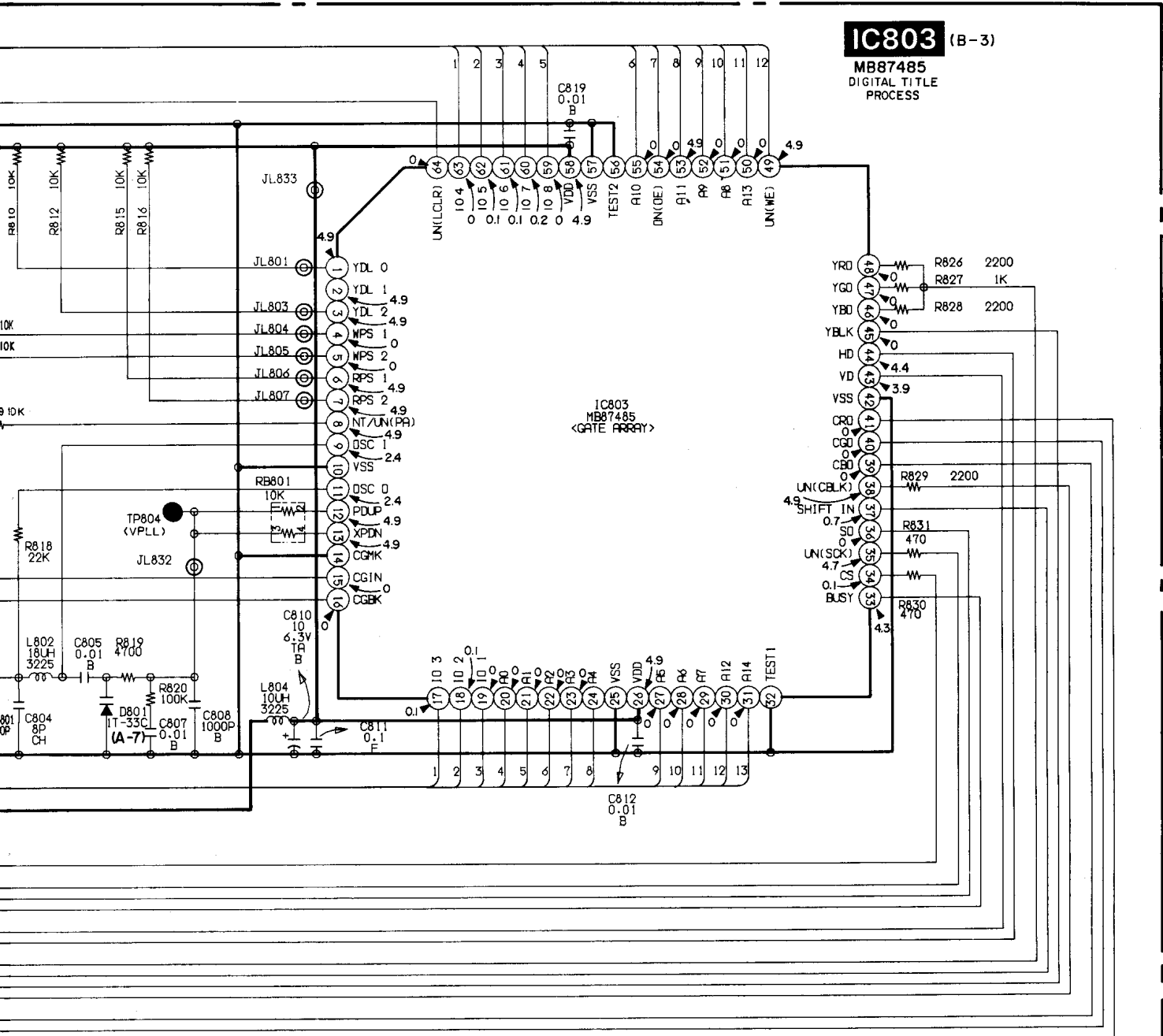
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no mark : CAMERA REC mode



- For schematic diagrams.
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.



IC803 (B-3)
MB87485
 DIGITAL TITLE
 PROCESS

IC803
 MB87485
 <GATE ARRAY>

no mark : CAMERA REC mode

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TI-30 BOARD

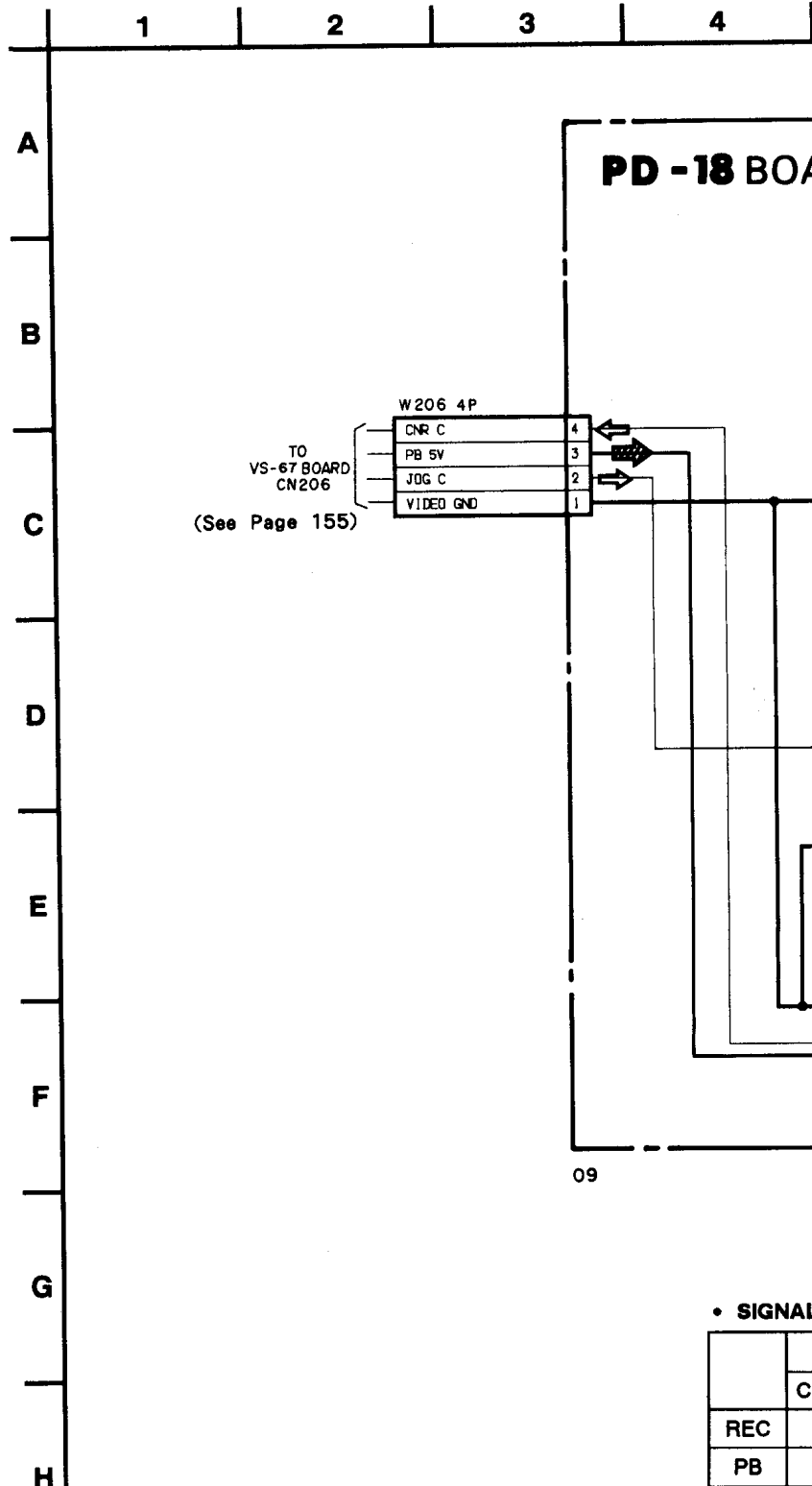
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DIGITAL TITLER

PD-18 (CHROMA NOISE REDUCTION) SCHEMATIC DIAGRAMS

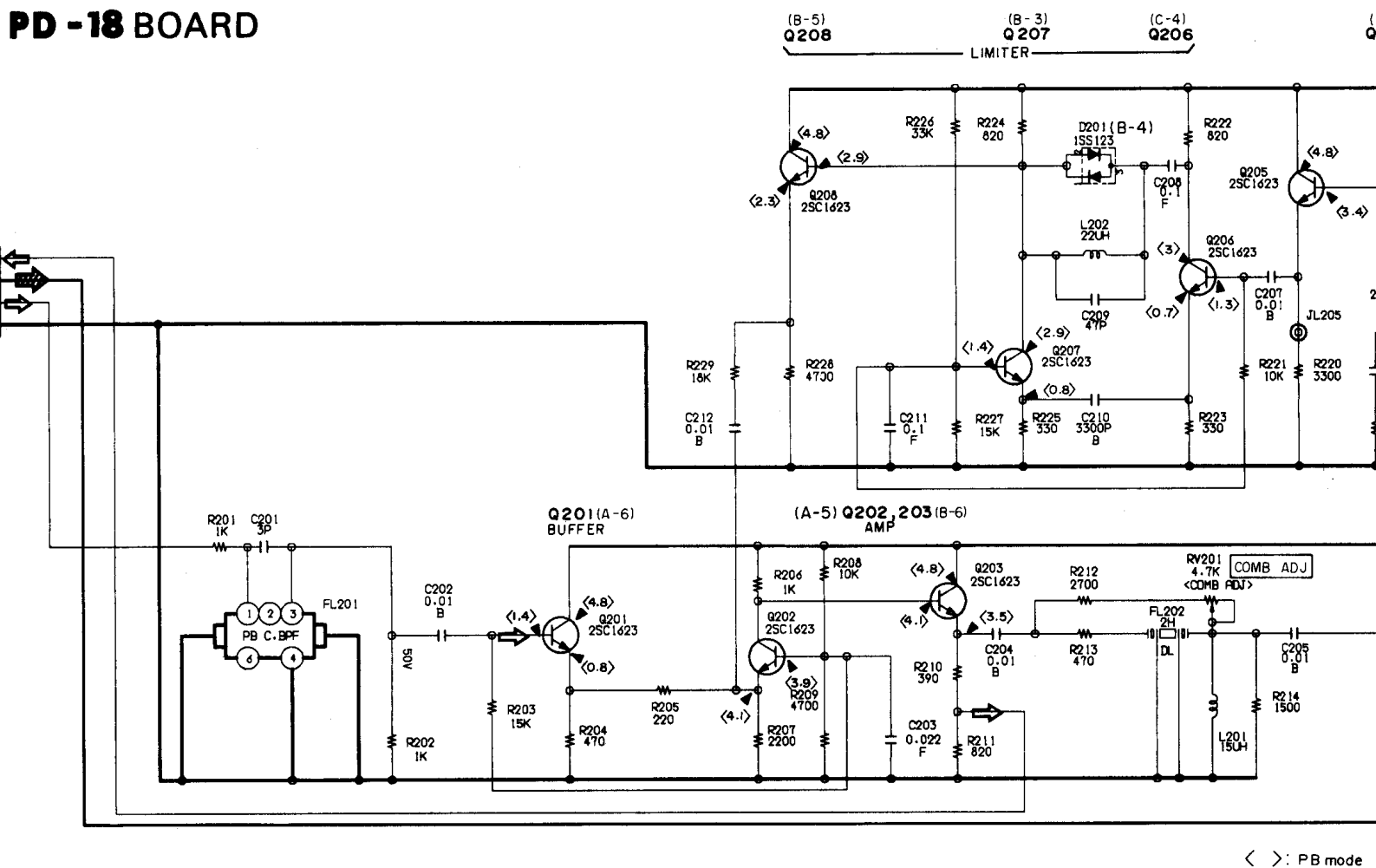
— Ref. No. PD-18 BOARD: 4000 series —

- For schematic diagrams.
- Chip resistor are 1/10W unless otherwise noted.
- For schematic diagrams.
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.



4 | 5 | 6 | 7 | 8 | 9 | 10 | 11

PD -18 BOARD



< >: PB mode

• SIGNAL PATH

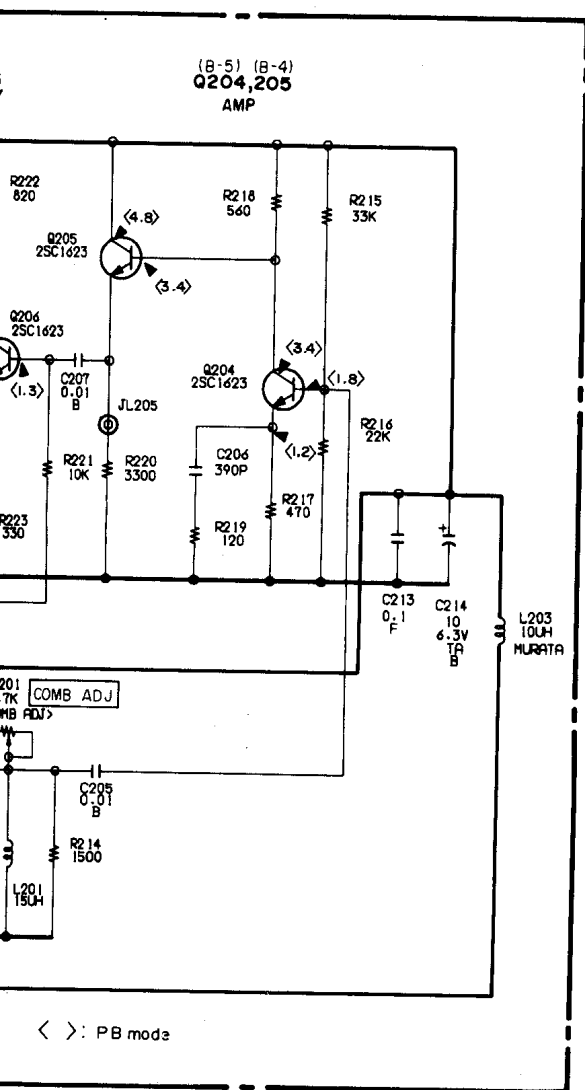
| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|---|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | | | | |
| PB | ⇒ | | | |

11

12

13

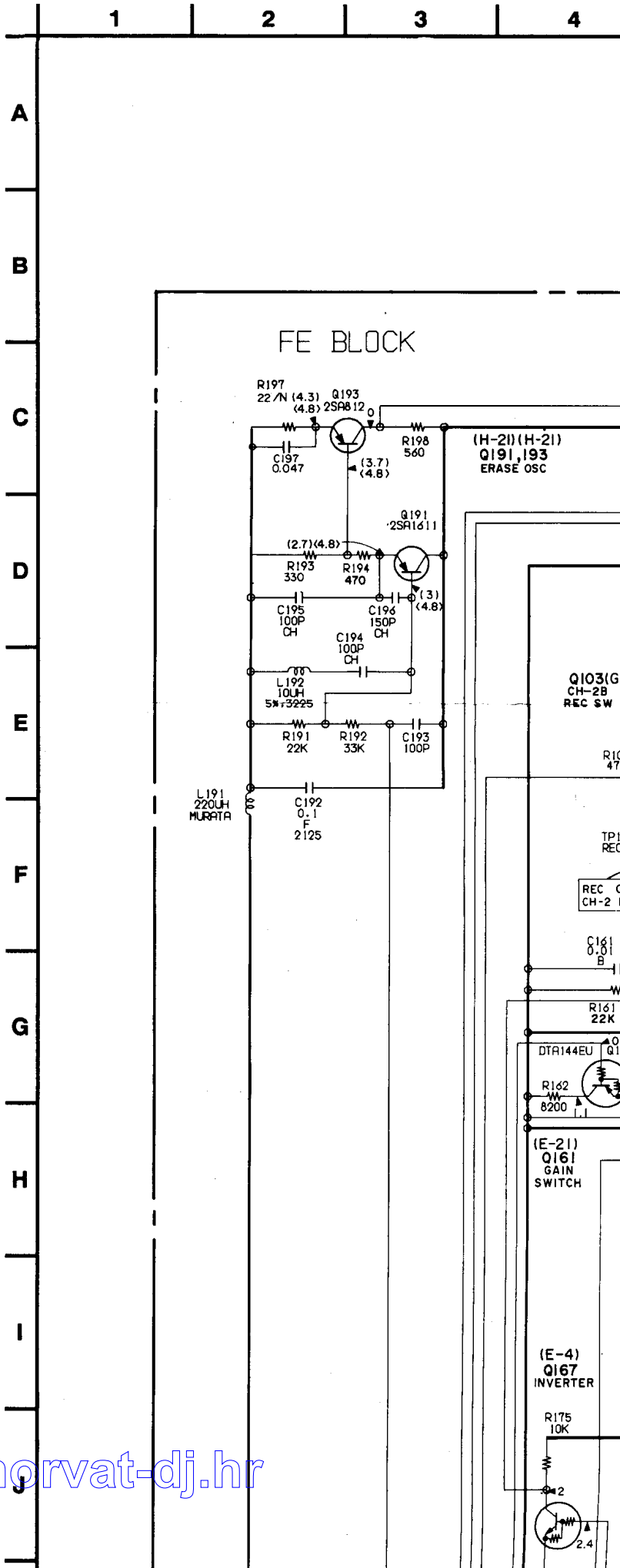
14



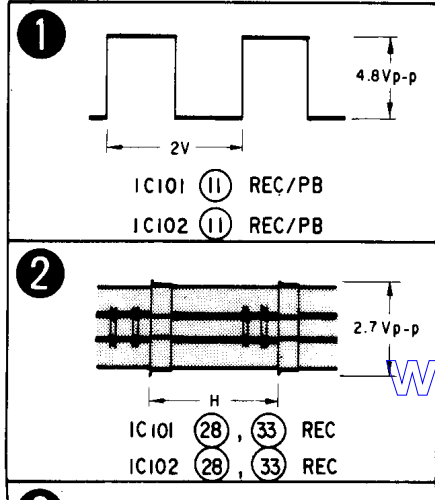
VS-67 (HEAD AMP) SCHEMATIC DIAGRAMS

— Ref. No. VS-67 BOARD: 5000 series —

- For schematic d
- The code shown lik
- position of location

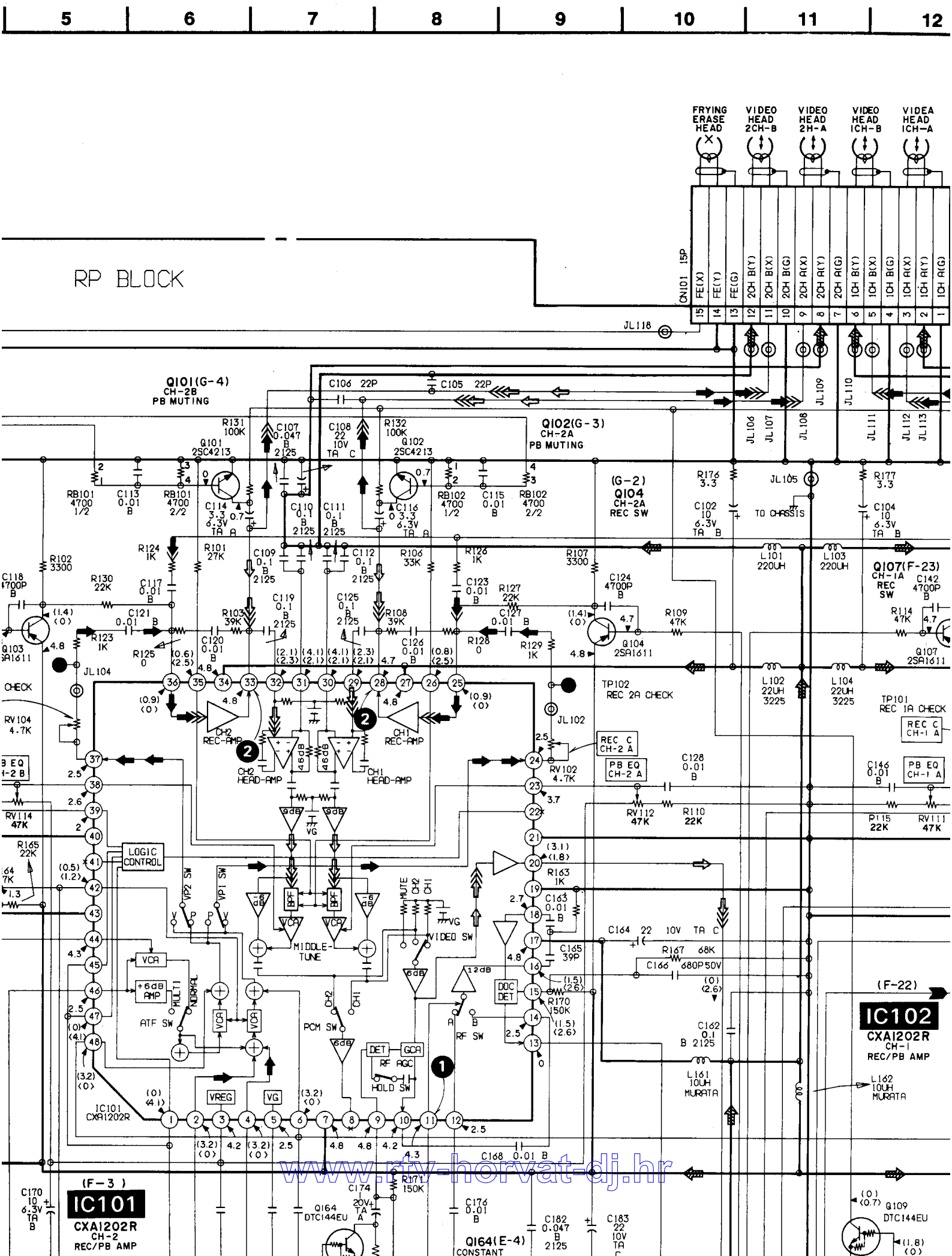


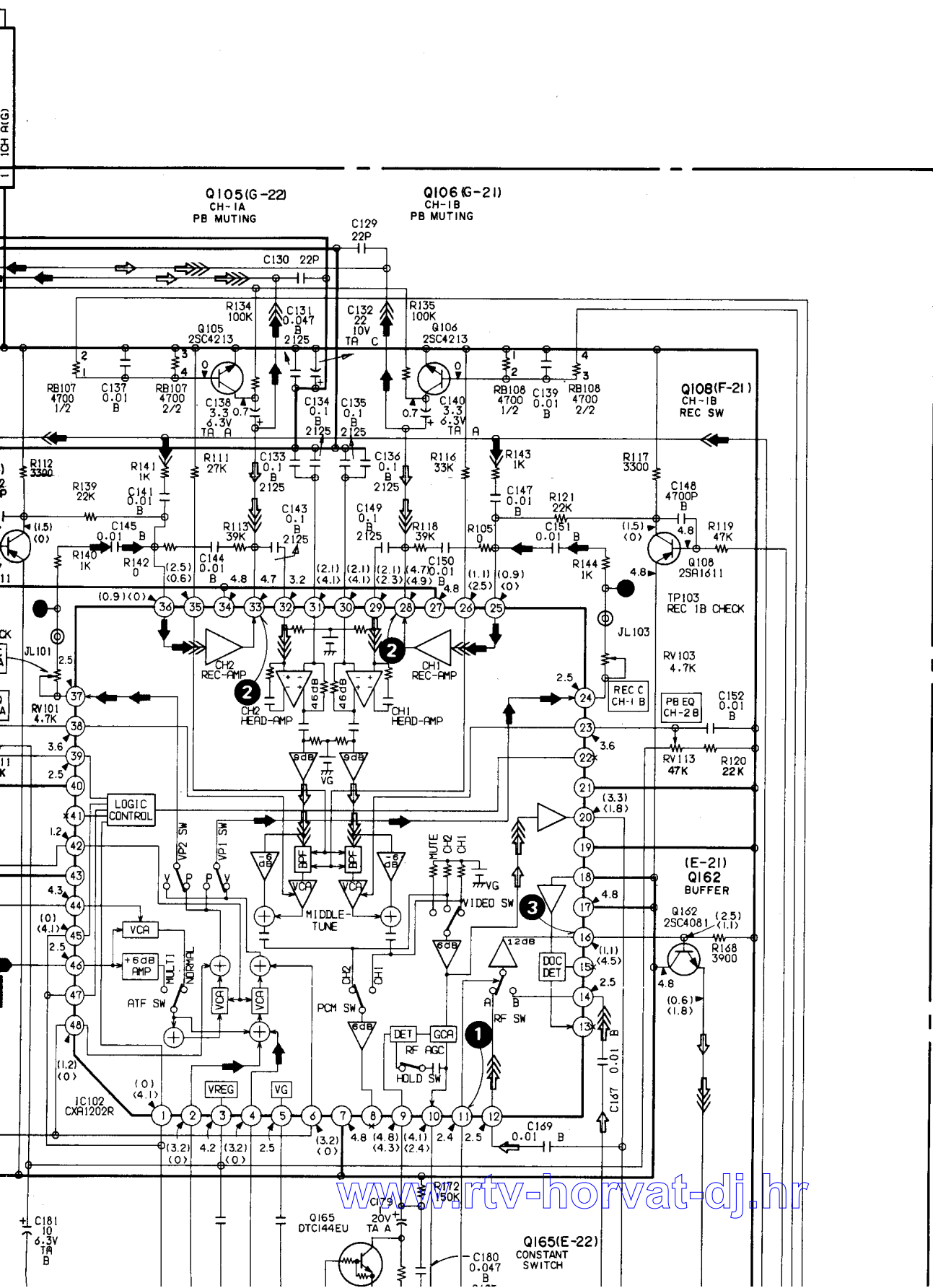
VS-67 BOARD (RP/FE)



grams.

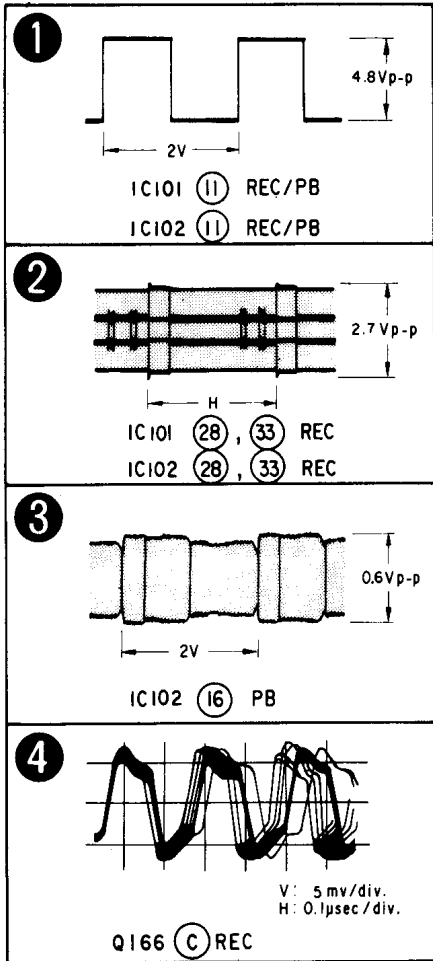
C-9) for each semiconductor indicates the
press on the printed wiring board.





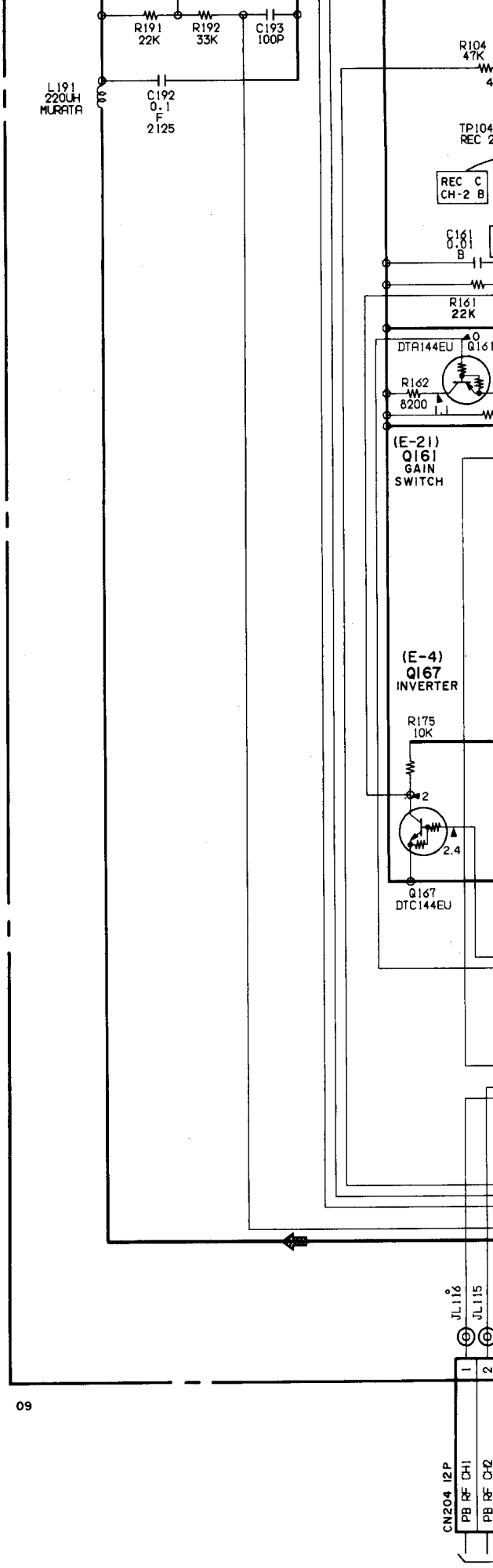
E
F
G
H
I
J
K
L
M
N
O

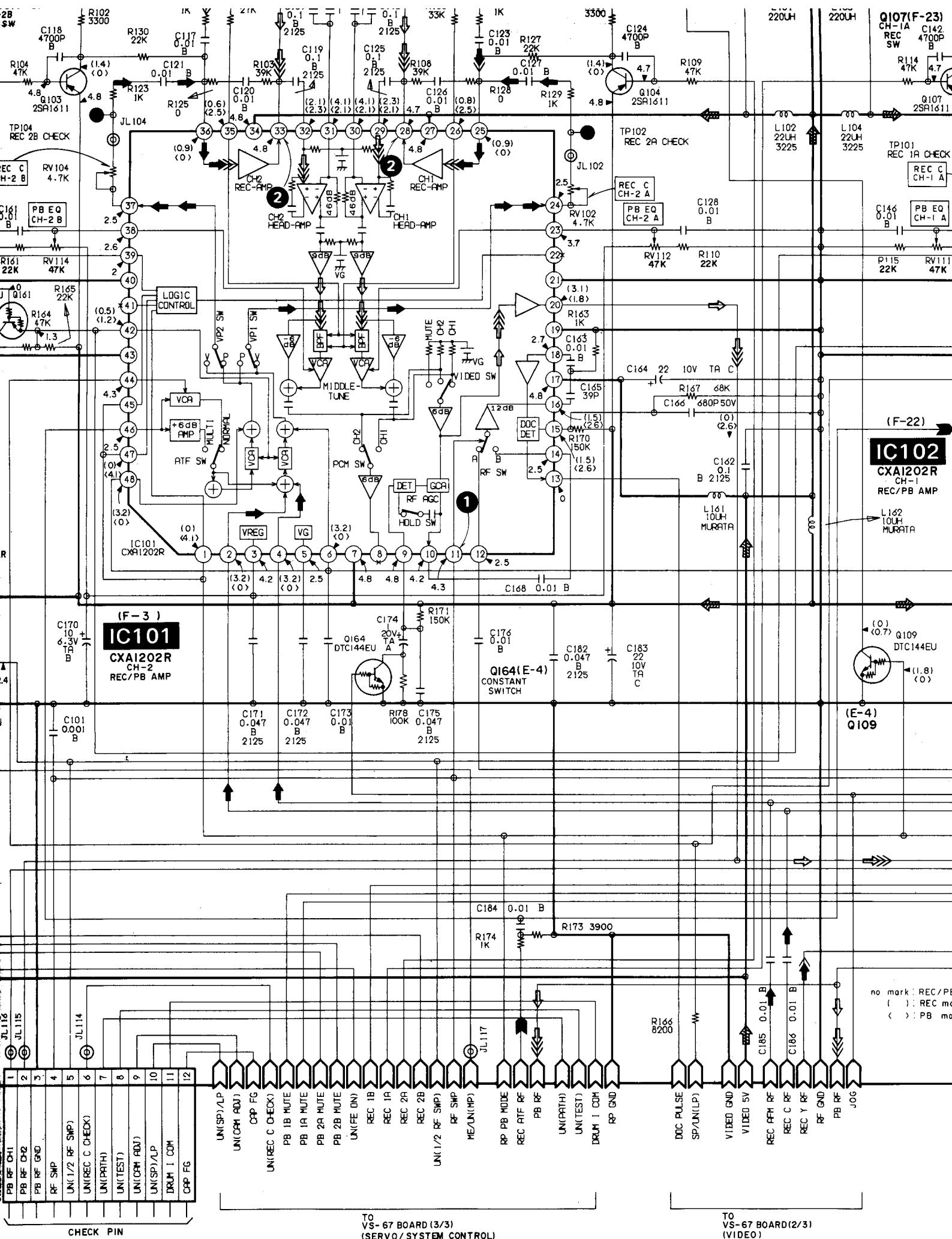
VS-67 BOARD (RP/FE)

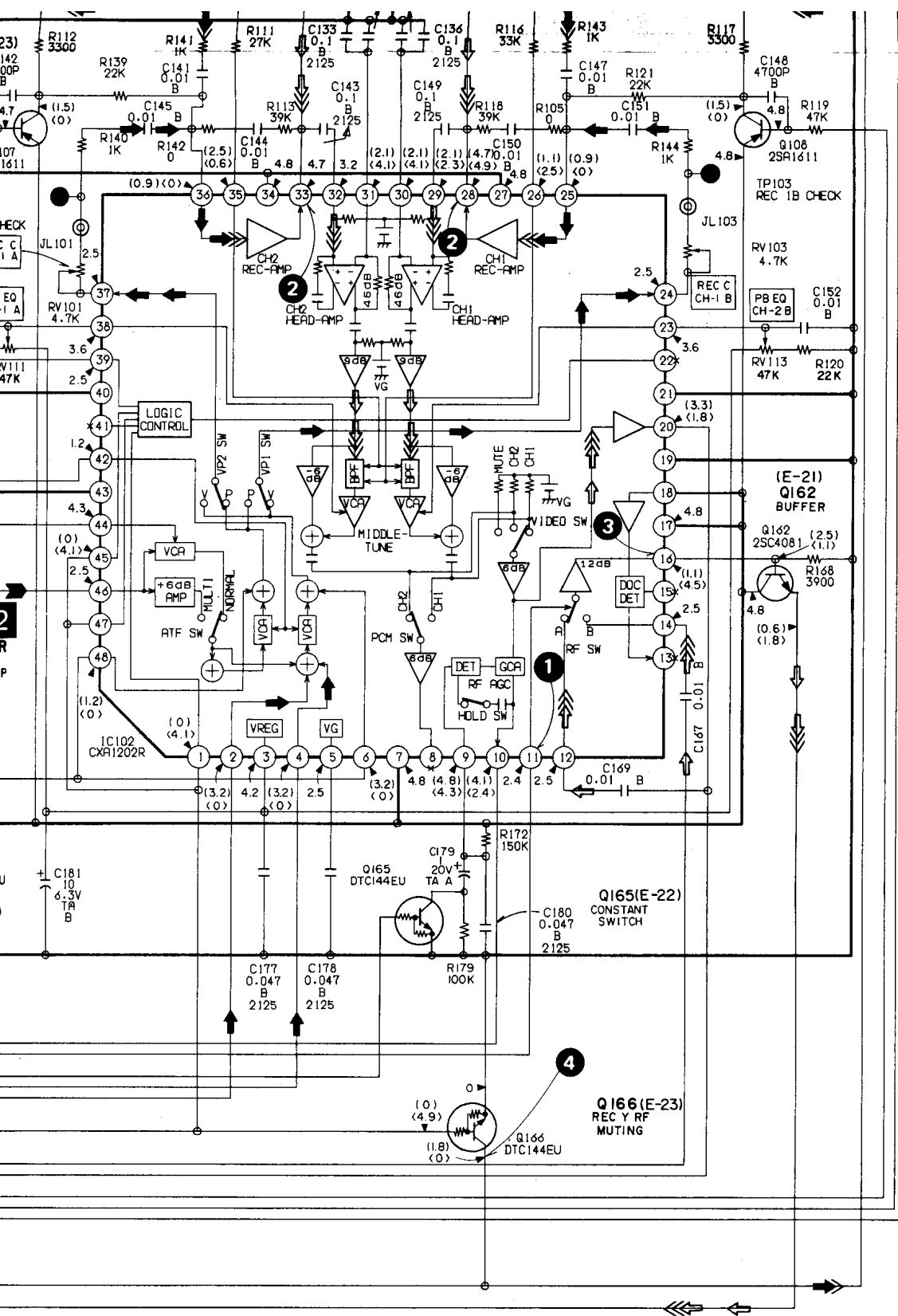


• SIGNAL PATH

| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|---|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | → | ⇒ | ⇒⇒ | → |
| PB | | | ⇒⇒ | ⇒ |



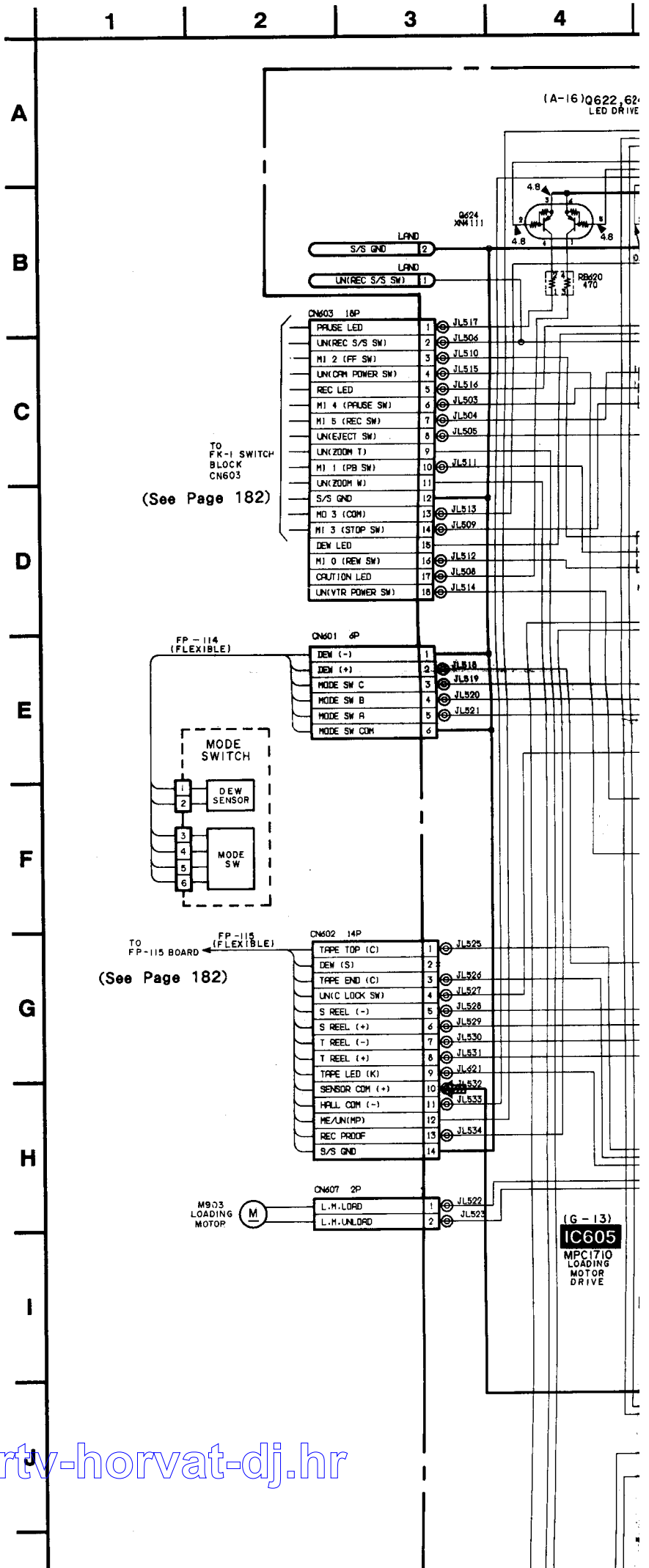
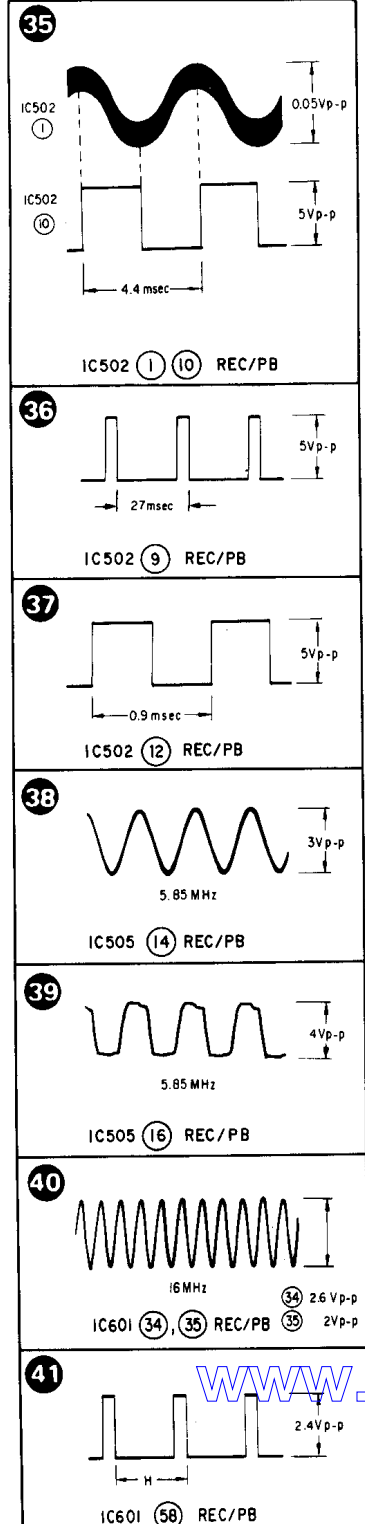




C/PB mode
C mode
mode

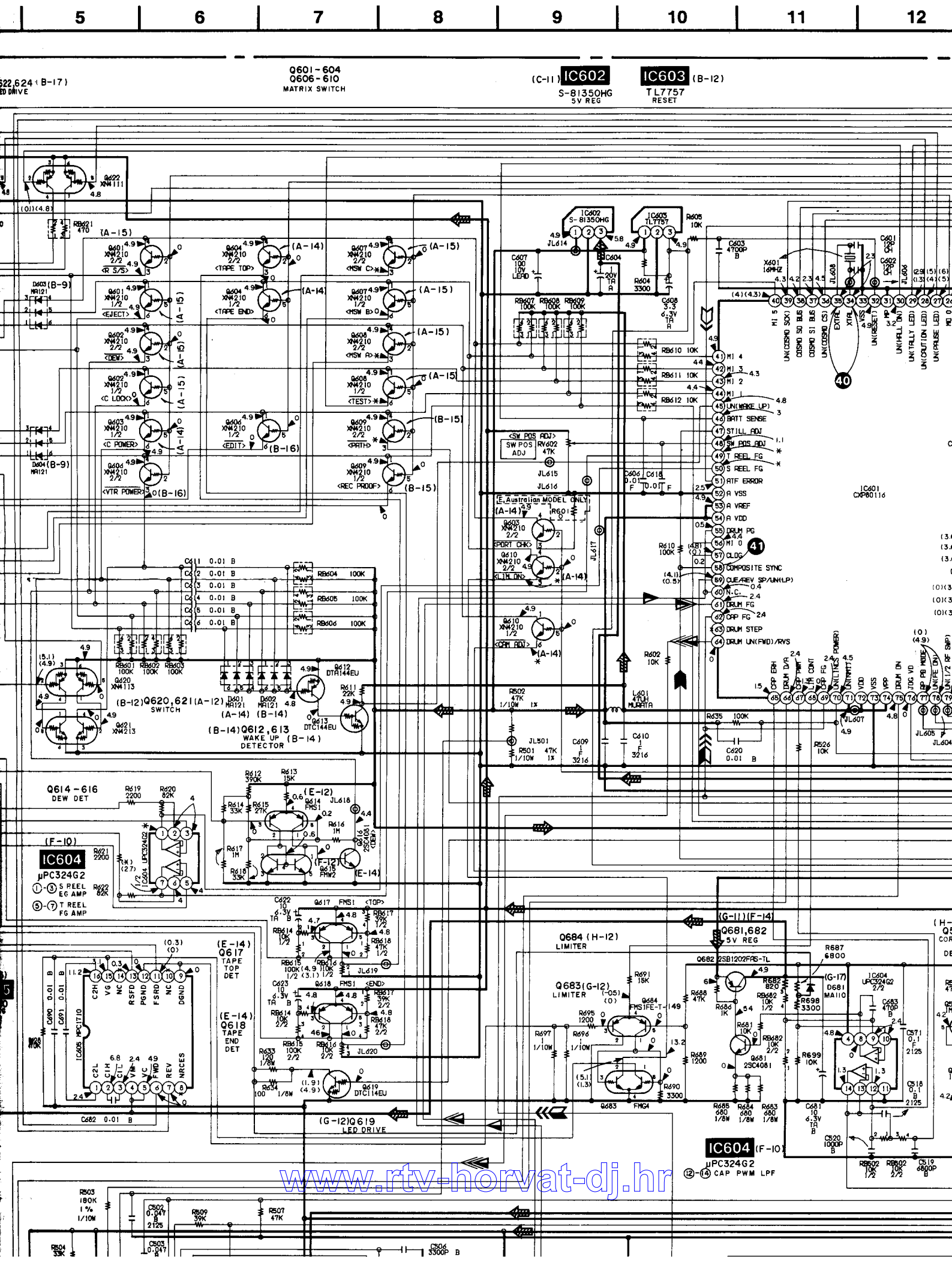
VS-67 BOARD (1/3)
(RP, FE)

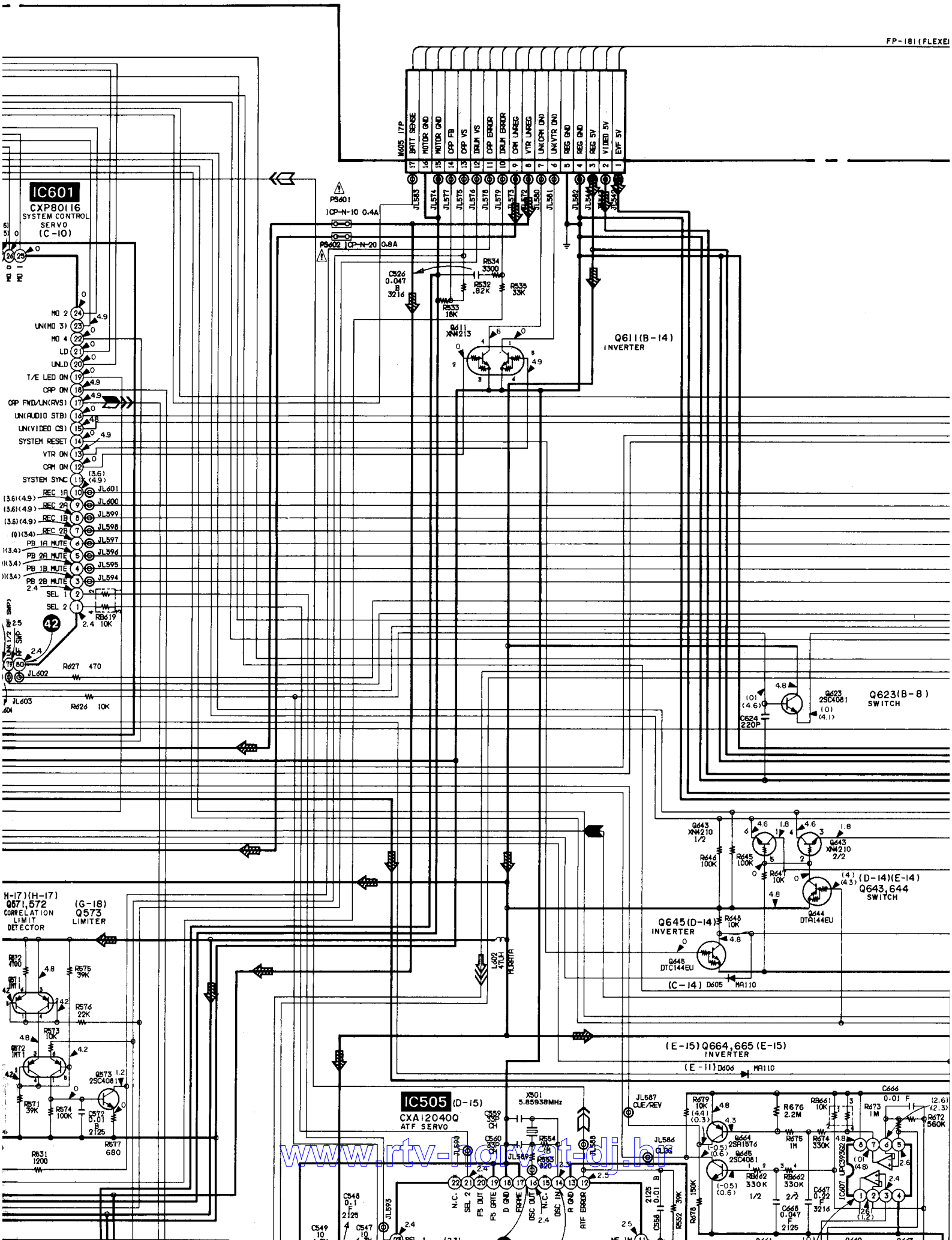
VS-67 BOARD (SYS/CON/SERVO)



For schematic diagrams.

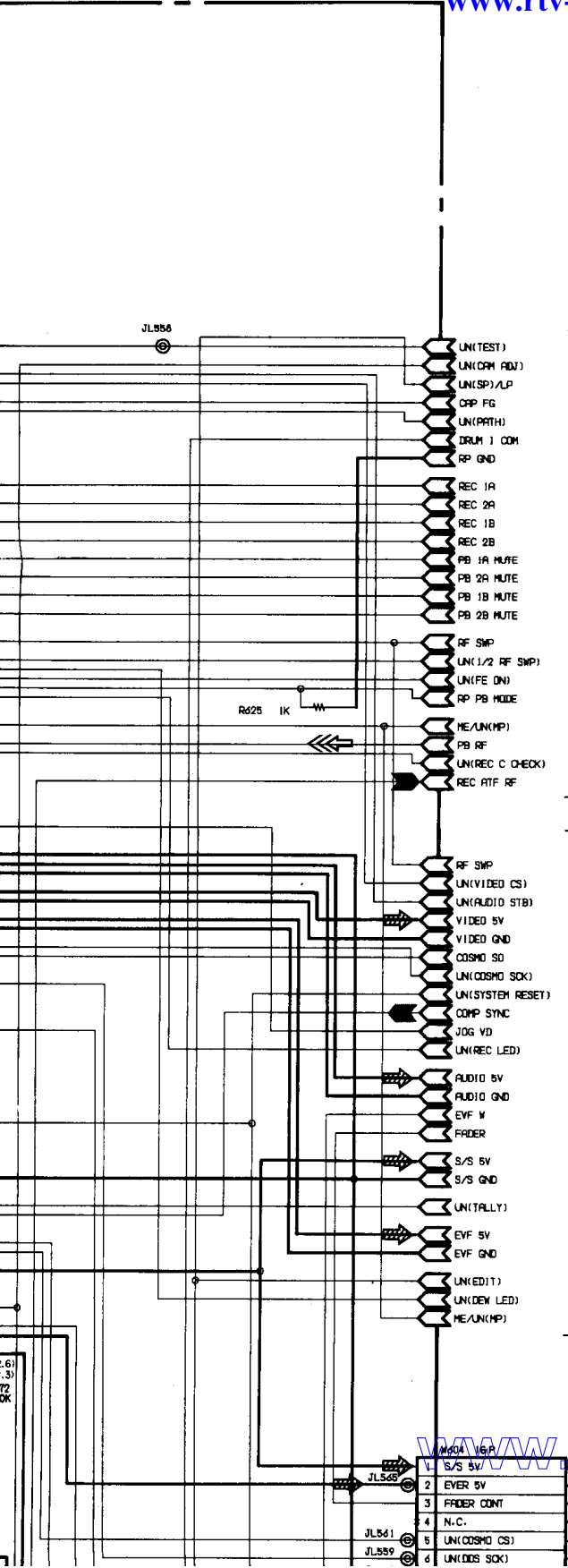
The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.





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(See Page 120)

TO VC-80 BOARD (3/4) (AF,FC) W801

TO VS-67 BOARD (1/3) (RP,FE)

(See Page 153)

TO VS-67 BOARD (2/3) (VIDEO)

(See Page 155)

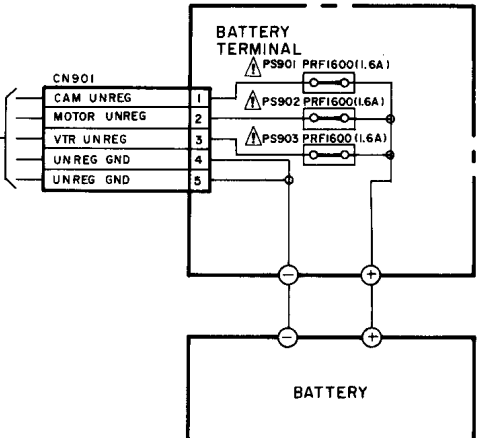
(See Page 121)

| | | |
|-----|---------------------|----|
| CN2 | VO11 (EVF 5V) | 1 |
| | VO12 (VIDEO 5V) | 2 |
| | VO13 (REG 5V) | 3 |
| | GND V1 (REG GND) | 4 |
| | GND V1 (REG GND) | 5 |
| | VC11 (UN (VIR ON)) | 6 |
| | VC21 (UN (CAM ON)) | 7 |
| | VO4 (VTR UNREG) | 8 |
| | VO5 (CAM UNREG) | 9 |
| | VC32 (DRUM ERROR) | 10 |
| | VC31 (CAP ERROR) | 11 |
| | VO32 (DRUM VS) | 12 |
| | VO31 (CAP VS) | 13 |
| | FB31 (CAP FB) | 14 |
| | GND V3 (MOTOR GND) | 15 |
| | GND V3 (MOTOR GND) | 16 |
| | BATT SENSE (RV OUT) | 17 |

| | | |
|-----|-------------------|---|
| CN3 | VO21 (23V) | 1 |
| | VO22 (15V) | 2 |
| | VO23 (-9V) | 3 |
| | VO24 (CAM 5V) | 4 |
| | GND V03 (CAM GND) | 5 |
| | GND V03 (CAM GND) | 6 |
| | GND V06 (AF GND) | 7 |
| | VO6 (AF UNREG) | 8 |

| | | |
|-----|--------------------|---|
| CN1 | V121 (CAM UNREG) | 1 |
| | V131 (MOTOR UNREG) | 2 |
| | V111 (VTR UNREG) | 3 |
| | GND V1 (UNREG GND) | 4 |
| | GND V1 (UNREG GND) | 5 |

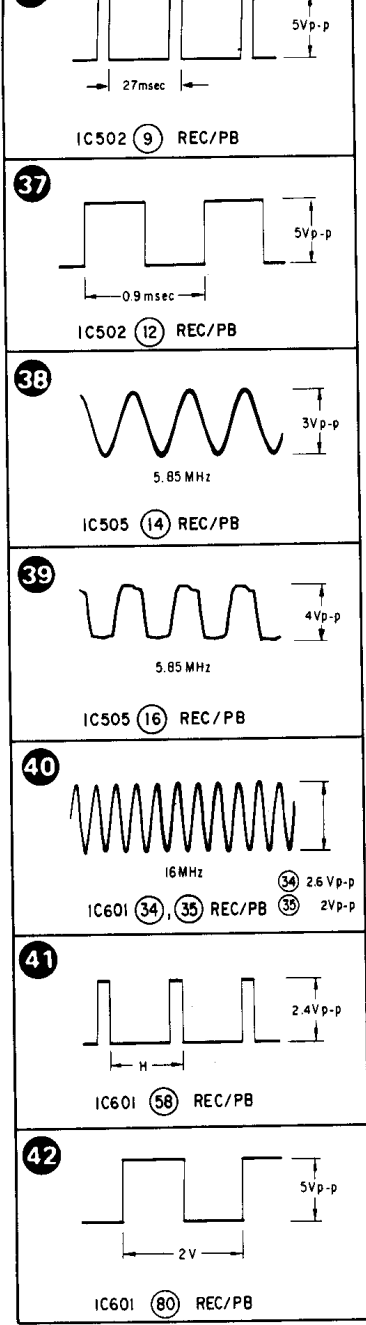
DC/DC CONV.
 ▲
 (DD-30 BOARD)



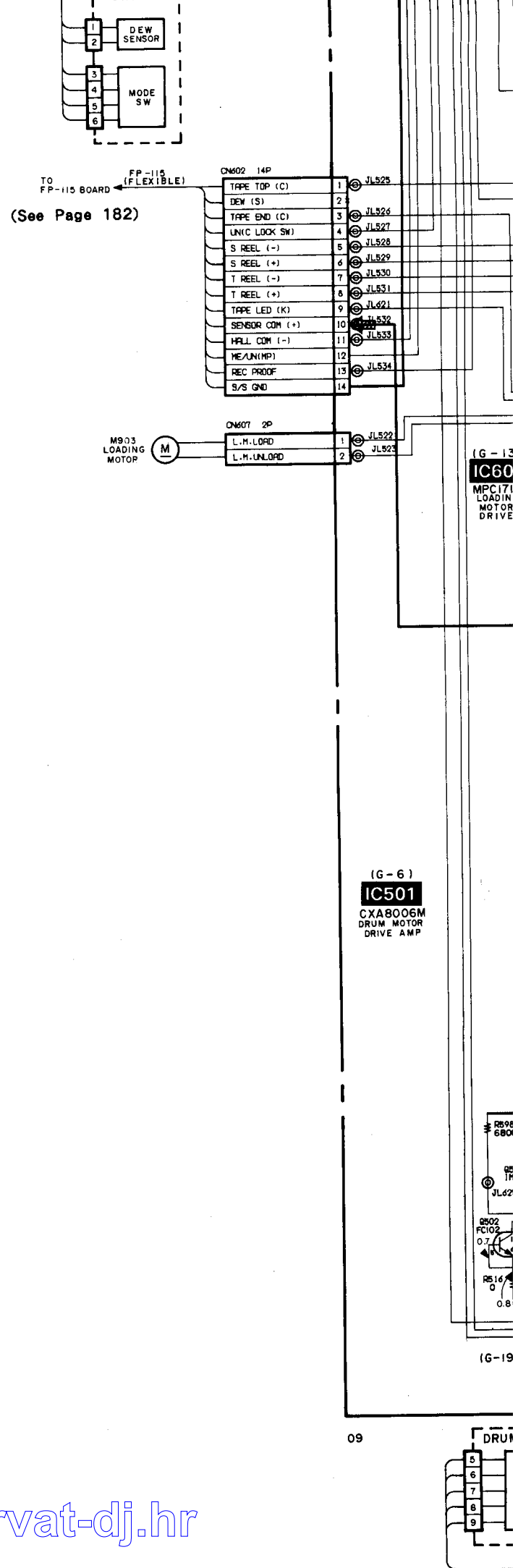
www.rtv-horvat-dj.hr

| | | |
|-------|---|---------------|
| JL560 | 1 | S/S 5V |
| | 2 | EVF 5V |
| | 3 | FRADER CONT |
| | 4 | N.C. |
| JL561 | 5 | UN(COSMO CS) |
| JL559 | 6 | UN(COSMO SCK) |

TO VC-80 BOARD (3/4) CAM3 (AF,FC) CN802



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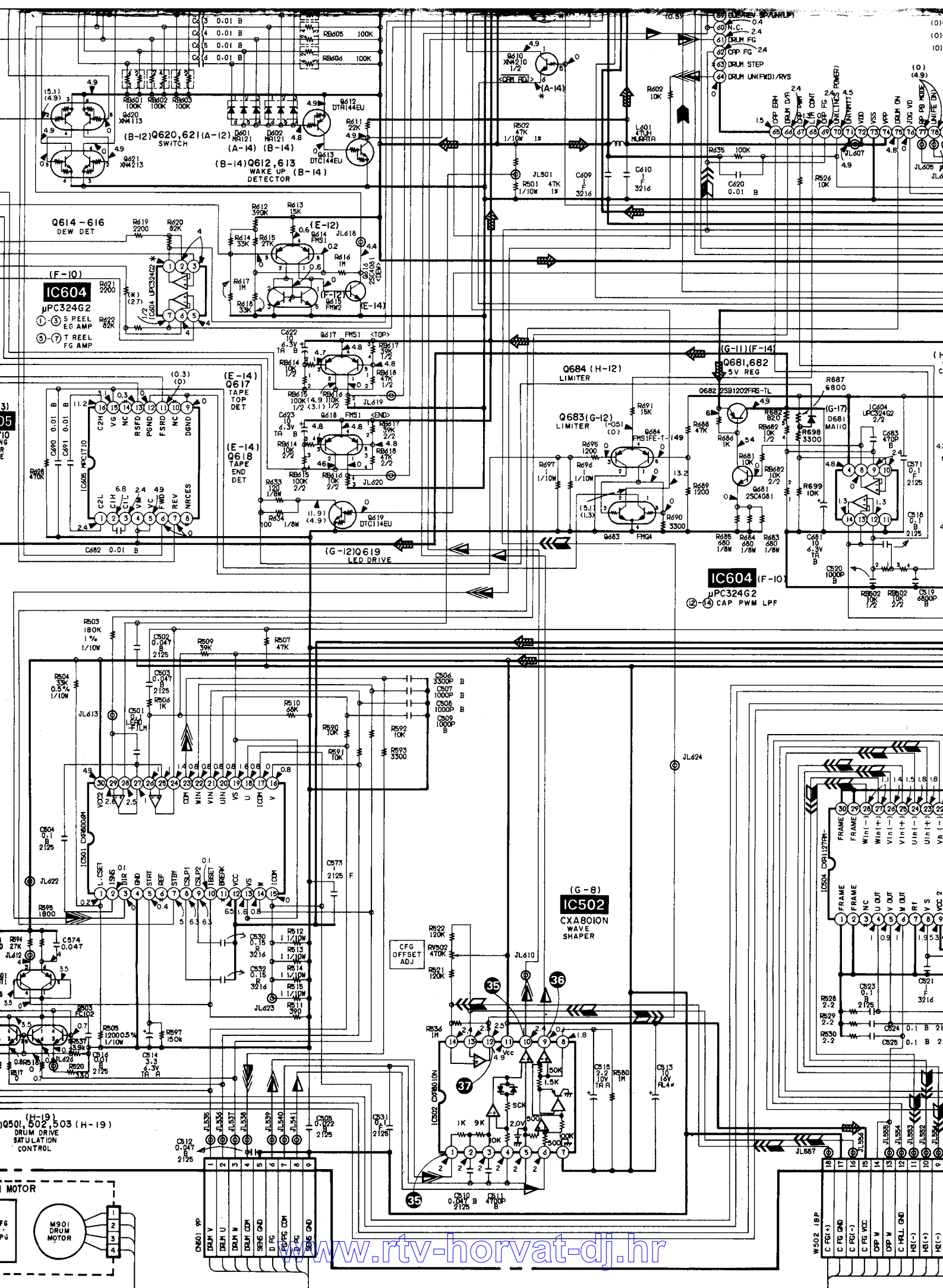


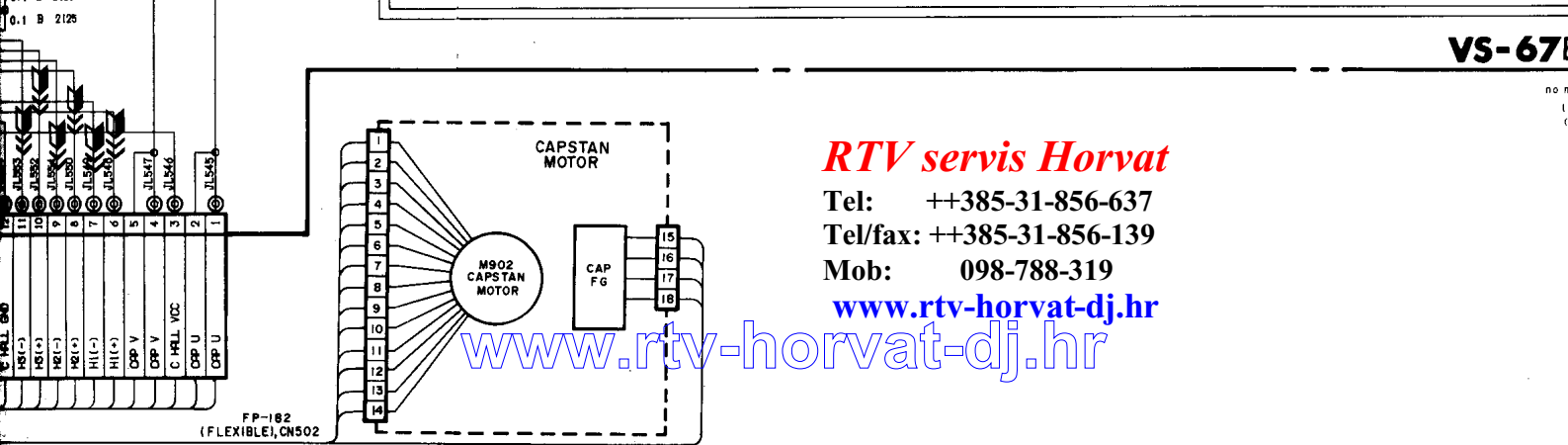
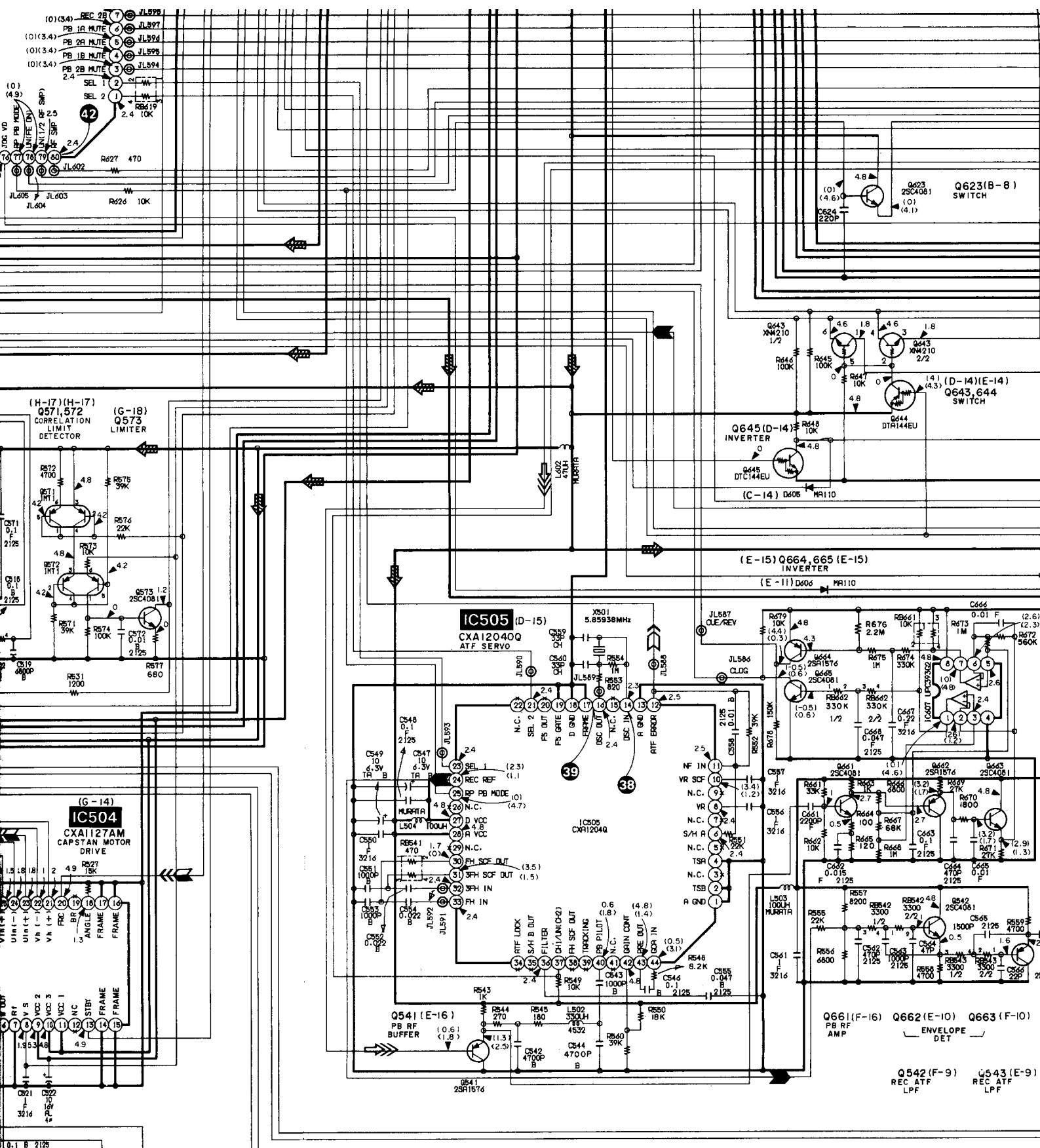
• SIGNAL PATH

| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|---|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| 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 | ▶ | | ▶ |





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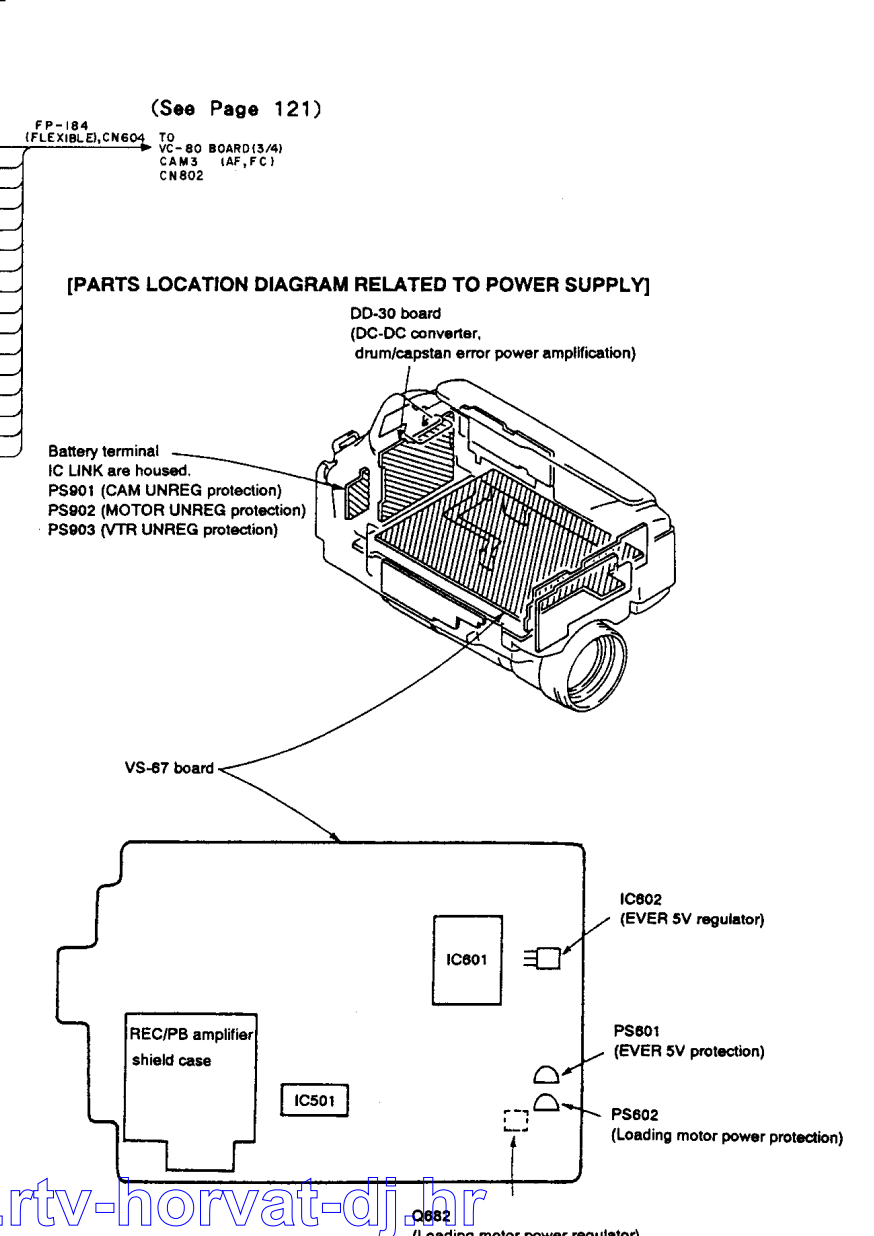
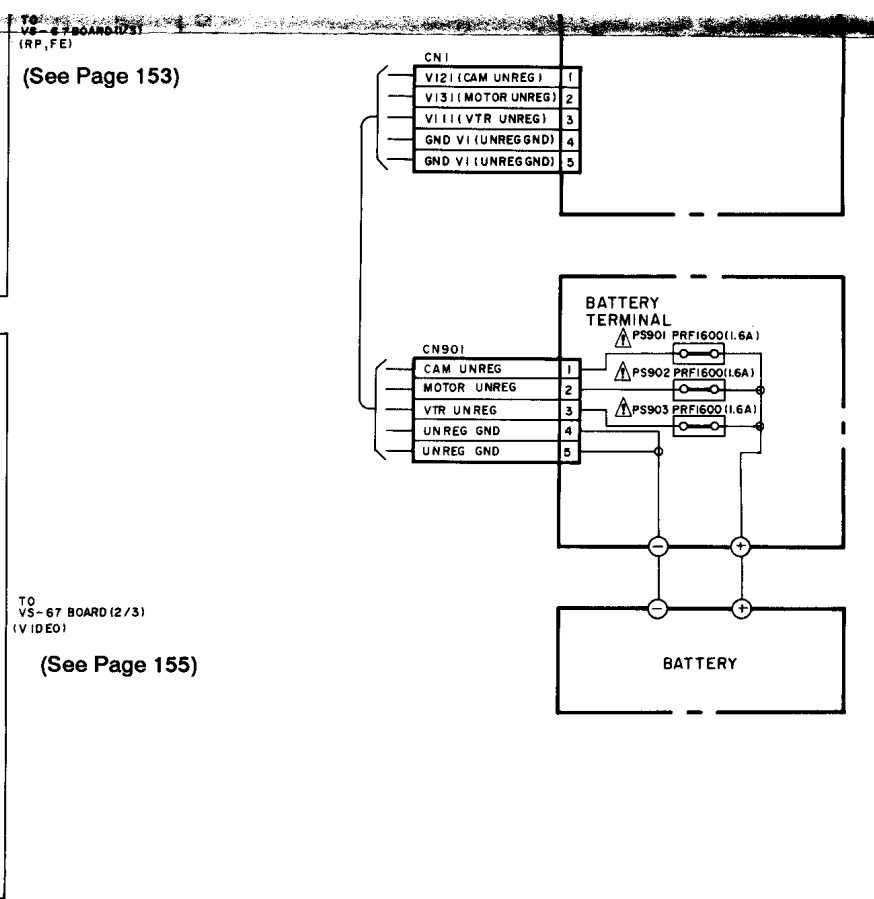
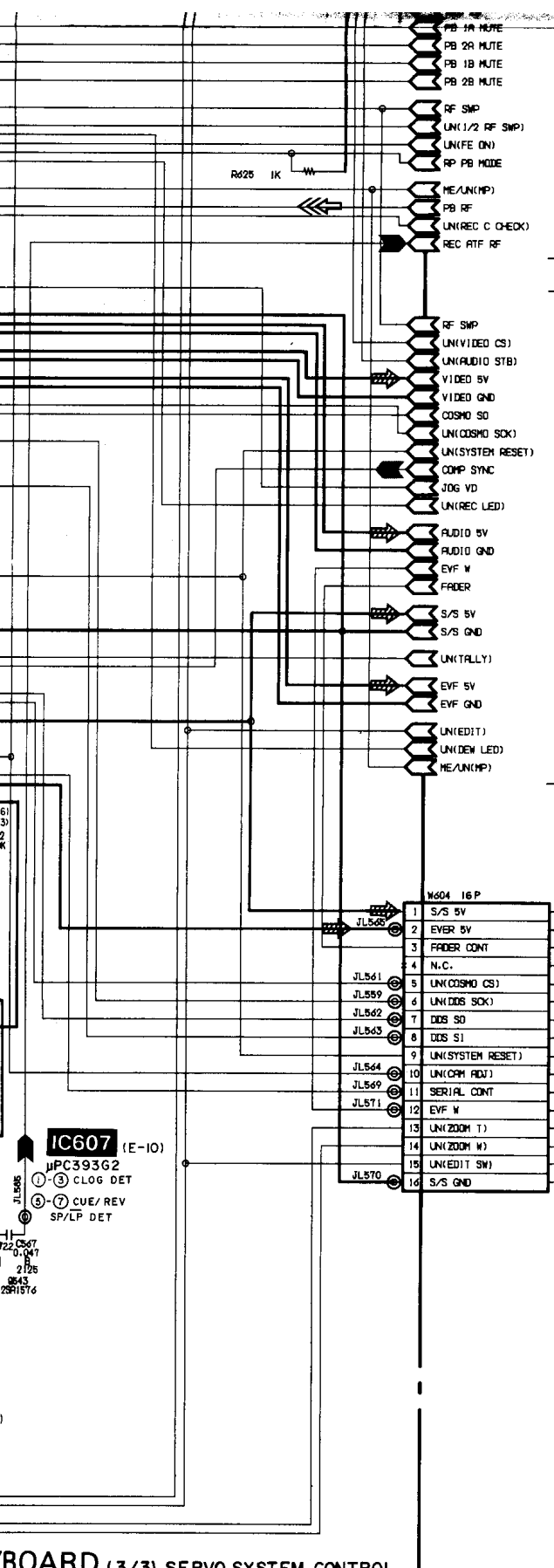
Tel: ++385-31-856-637

Tel/fax: ++385-31-856-139

Mob: 098-788-319

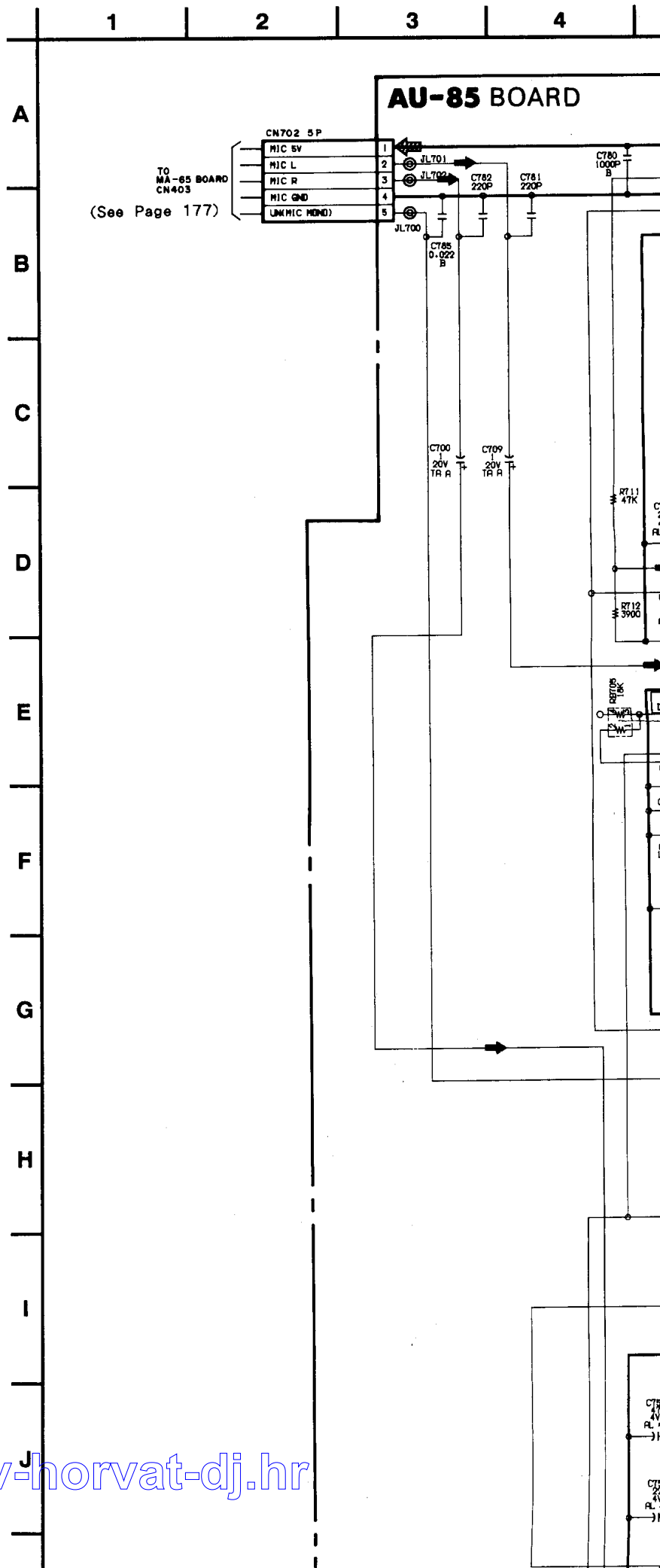
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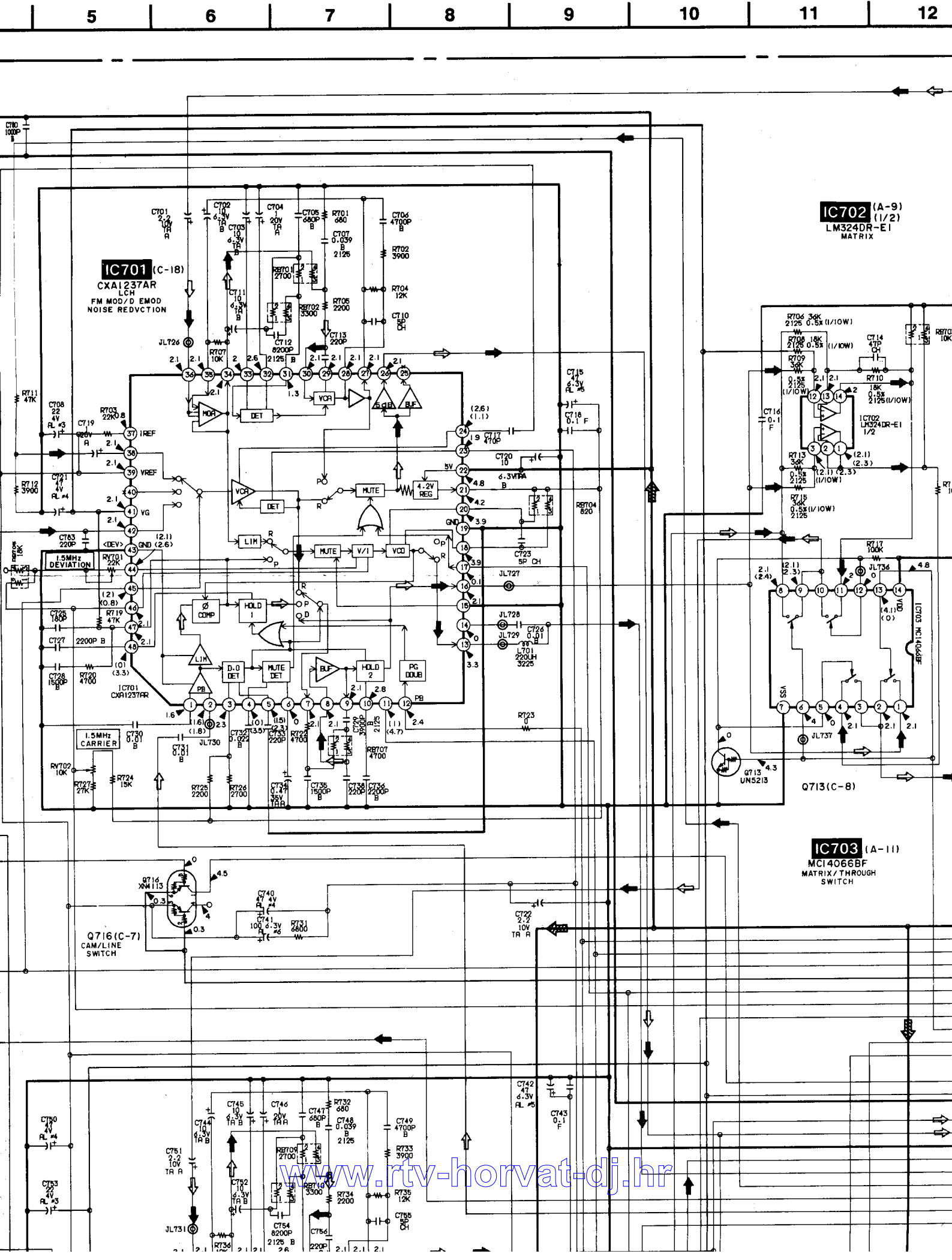
AU-85 (AFM STEREO PROCESS), AU-86 (OUTPUT SELECT, HEADPHONES AMP) SCHEMATIC

— Ref. No. AU-85, AU-86 BOARDS: 6000 series —



P) SCHEMATIC DIAGRAMS

- For schematic diagrams.
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.



IC702 (A-9)
(1/2)
LM324DR-E1
MATRIX

Q713(C-8)

IC703 (A-11)
MCI4066BF
MATRIX/THROUGH
SWITCH

AU-86 BOARD

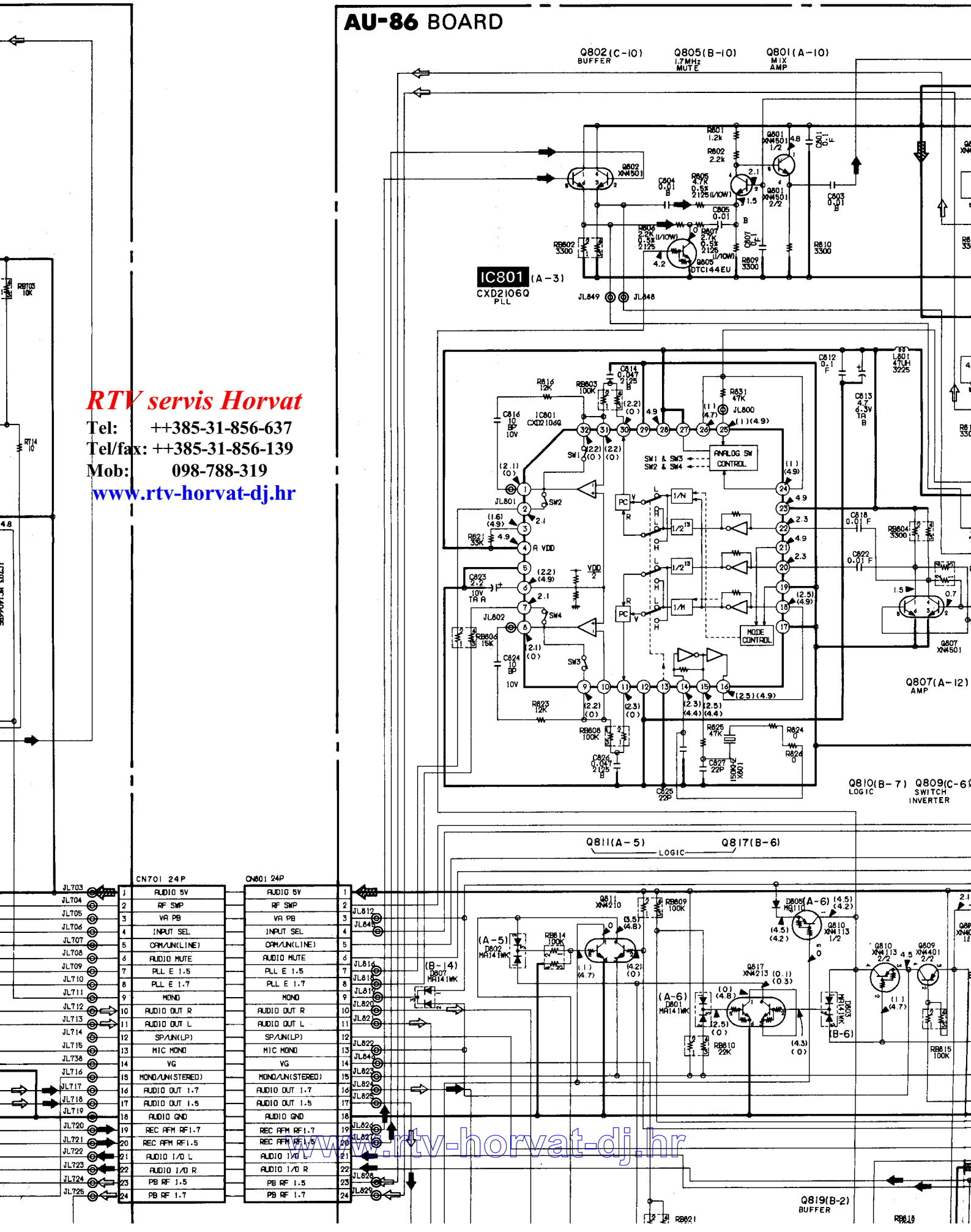
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Tel/fax: ++385-31-856-139

Mob: 098-788-319

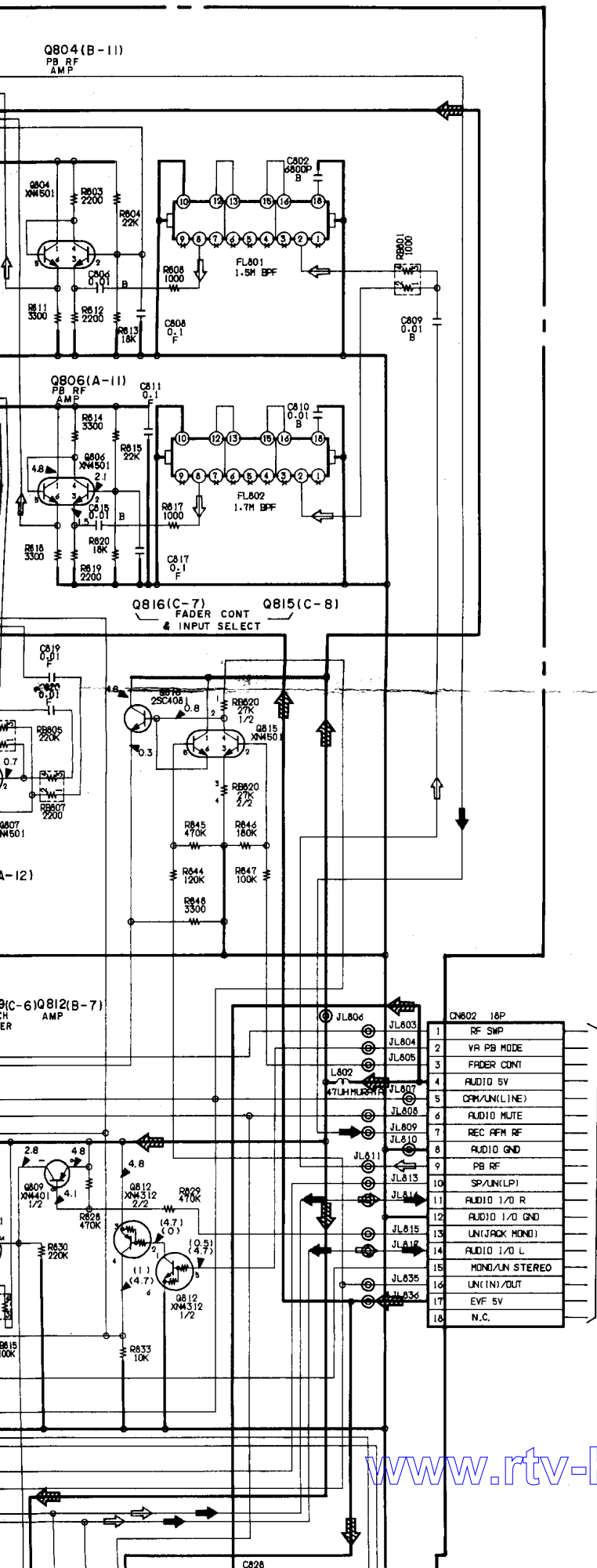
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| Pin | Signal |
|-----|-----------------|
| 1 | AUDIO 5V |
| 2 | RF SMP |
| 3 | VA PB |
| 4 | INPUT SEL |
| 5 | OP/UN(L)INE |
| 6 | AUDIO MUTE |
| 7 | PLL E 1.5 |
| 8 | PLL E 1.7 |
| 9 | MONO |
| 10 | AUDIO OUT R |
| 11 | AUDIO OUT L |
| 12 | SP/UN(L)P |
| 13 | MIC MONO |
| 14 | VG |
| 15 | MONO/UN(STEREO) |
| 16 | AUDIO OUT 1.7 |
| 17 | AUDIO OUT 1.5 |
| 18 | AUDIO GND |
| 19 | REC AFM RF 1.7 |
| 20 | REC AFM RF 1.5 |
| 21 | AUDIO I/O L |
| 22 | AUDIO I/O R |
| 23 | PB RF 1.5 |
| 24 | PB RF 1.7 |

| Pin | Signal |
|-----|-----------------|
| 1 | AUDIO 5V |
| 2 | RF SMP |
| 3 | VA PB |
| 4 | INPUT SEL |
| 5 | OP/UN(L)INE |
| 6 | AUDIO MUTE |
| 7 | PLL E 1.5 |
| 8 | PLL E 1.7 |
| 9 | MONO |
| 10 | AUDIO OUT R |
| 11 | AUDIO OUT L |
| 12 | SP/UN(L)P |
| 13 | MIC MONO |
| 14 | VG |
| 15 | MONO/UN(STEREO) |
| 16 | AUDIO OUT 1.7 |
| 17 | AUDIO OUT 1.5 |
| 18 | AUDIO GND |
| 19 | REC AFM RF 1.7 |
| 20 | REC AFM RF 1.5 |
| 21 | AUDIO I/O L |
| 22 | AUDIO I/O R |
| 23 | PB RF 1.5 |
| 24 | PB RF 1.7 |

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CN802 18P

| | |
|----|----------------|
| 1 | RF SWP |
| 2 | VA PB MODE |
| 3 | FADER CONT |
| 4 | AUDIO 5V |
| 5 | OPN/LN(LINE) |
| 6 | AUDIO MUTE |
| 7 | REC AFM RF |
| 8 | AUDIO GND |
| 9 | PB RF |
| 10 | SP/LN(LP) |
| 11 | AUDIO I/O R |
| 12 | AUDIO I/O GND |
| 13 | LN(JACK MONO) |
| 14 | AUDIO I/O L |
| 15 | MONO/LN STEREO |
| 16 | LN(IN)/OUT |
| 17 | EVF 5V |
| 18 | N.C. |

TO
VS-67 BOARD (2/3)
(VIDEO)
CN203
(See Page 155)

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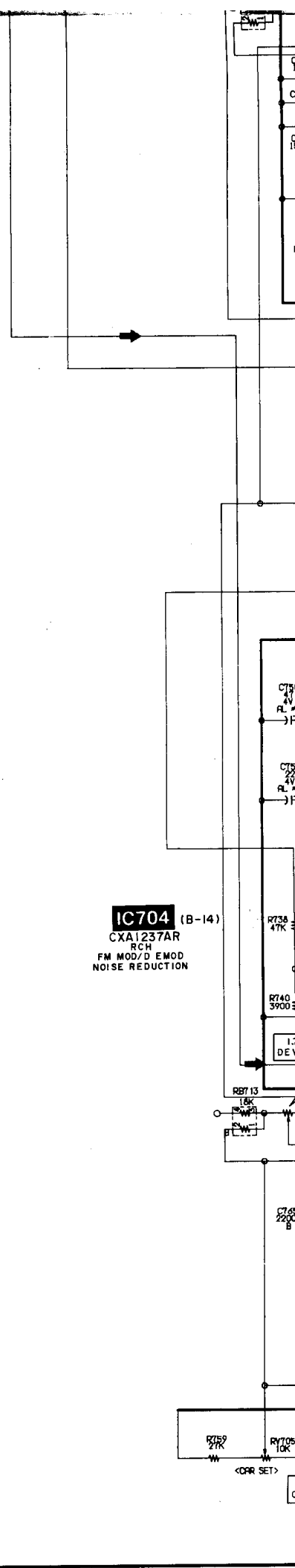
K

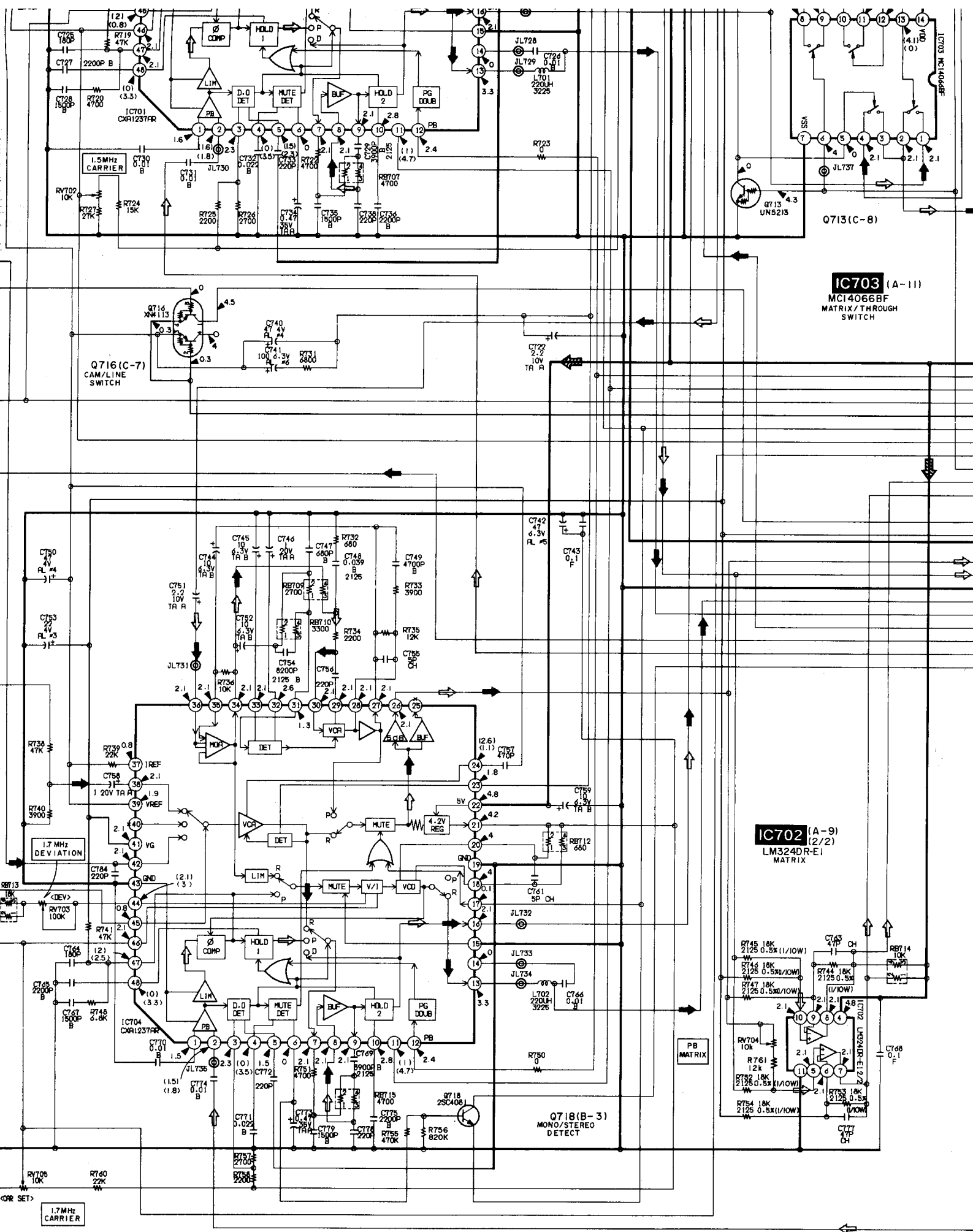
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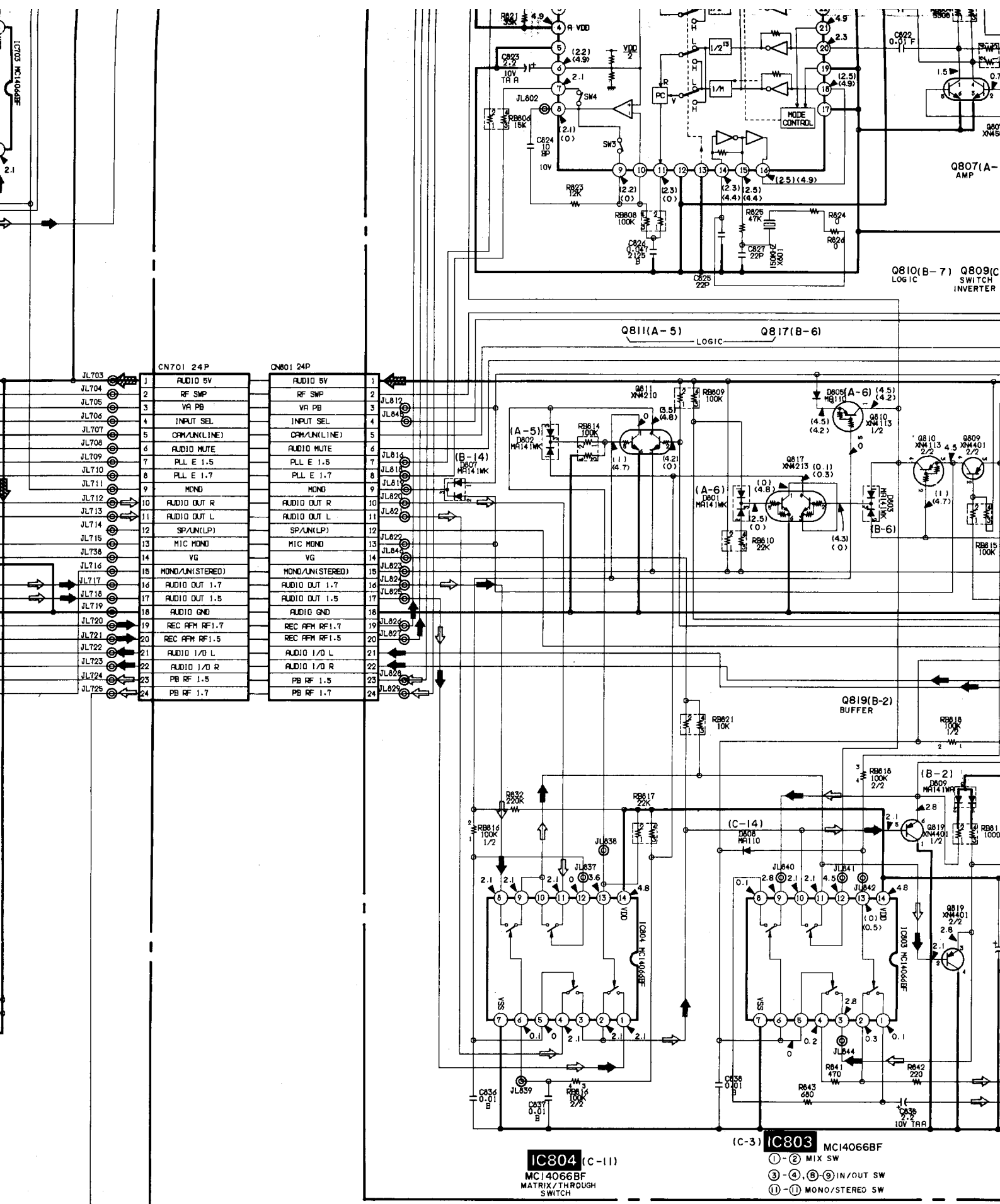
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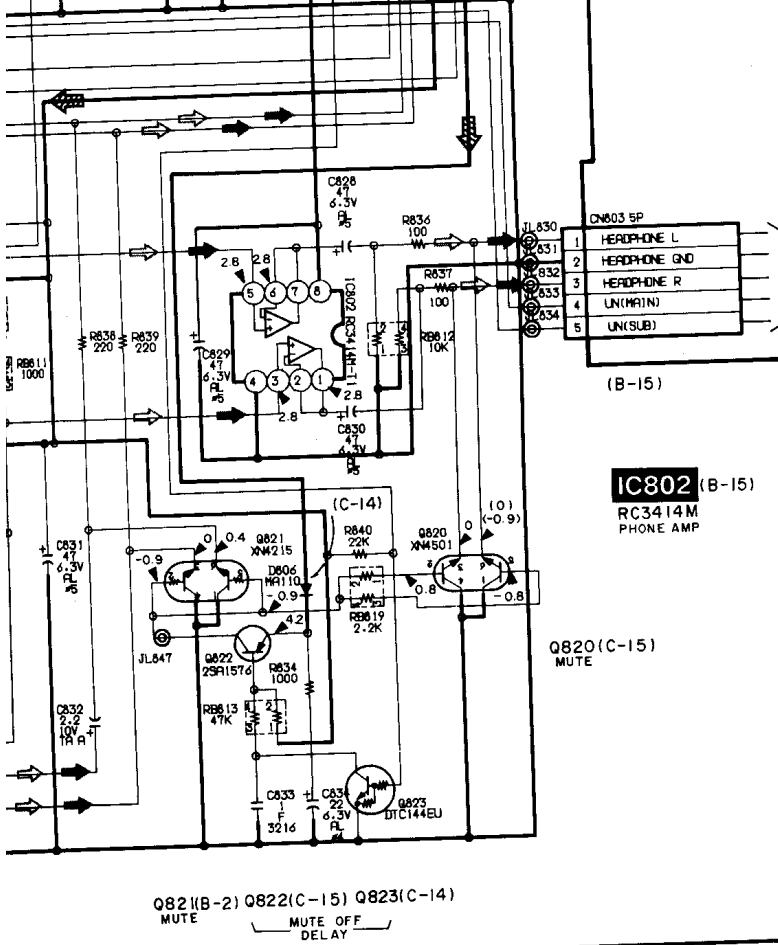
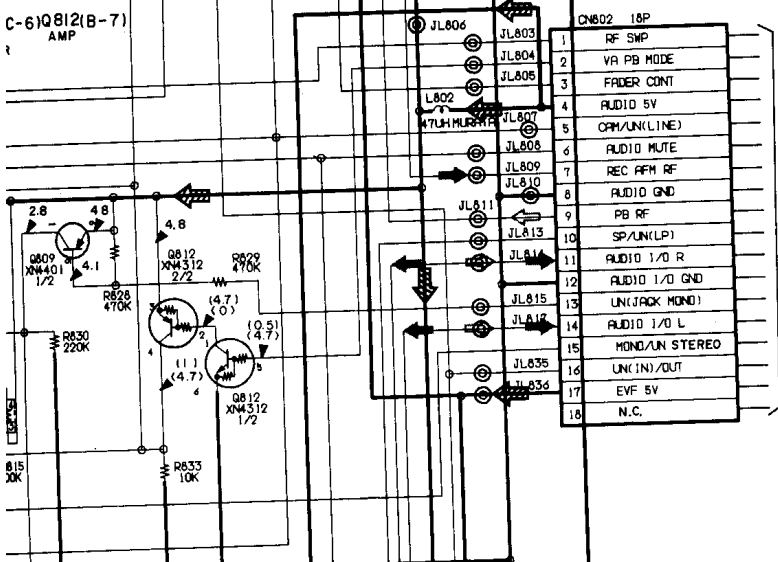
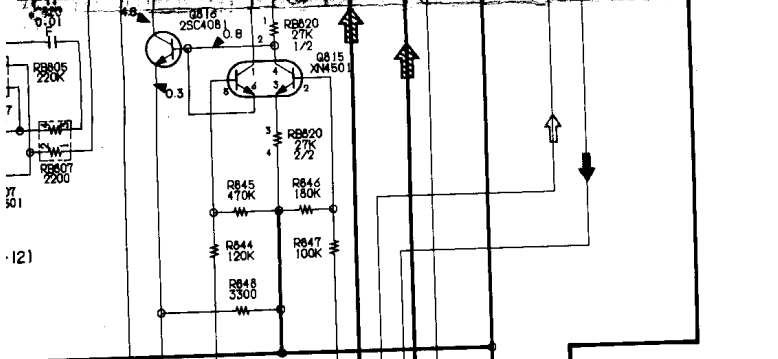
N

O









- CN802 18P
- 1 RF SWP
 - 2 VA PB MODE
 - 3 FADER CONT
 - 4 AUDIO 5V
 - 5 COM/UN(LINE)
 - 6 AUDIO MUTE
 - 7 REC AFM RF
 - 8 AUDIO GND
 - 9 PB RF
 - 10 SP/UN(LP)
 - 11 AUDIO I/O R
 - 12 AUDIO I/O GND
 - 13 UN(JACK MOND)
 - 14 AUDIO I/O L
 - 15 MOND/UN STEREO
 - 16 UN(IN)/OUT
 - 17 EVF 5V
 - 18 N.C.

TO VS-67 BOARD (2/3)
(VIDEO)
CN203
(See Page 155)

- CN803 5P
- 1 HEADPHONE L
 - 2 HEADPHONE GND
 - 3 HEADPHONE R
 - 4 UN(MAIN)
 - 5 UN(SUB)

TO EL-10 BOARD
CN941
(See Page 177)

IC802 (B-15)
RC3414M
PHONE AMP

Q820 (C-15)
MUTE

Q82 (B-2) Q822 (C-15) Q823 (C-14)
MUTE MUTE OFF DELAY

no mark : REC/PB mode
() : REC mode
() : PB mode

• SIGNAL PATH

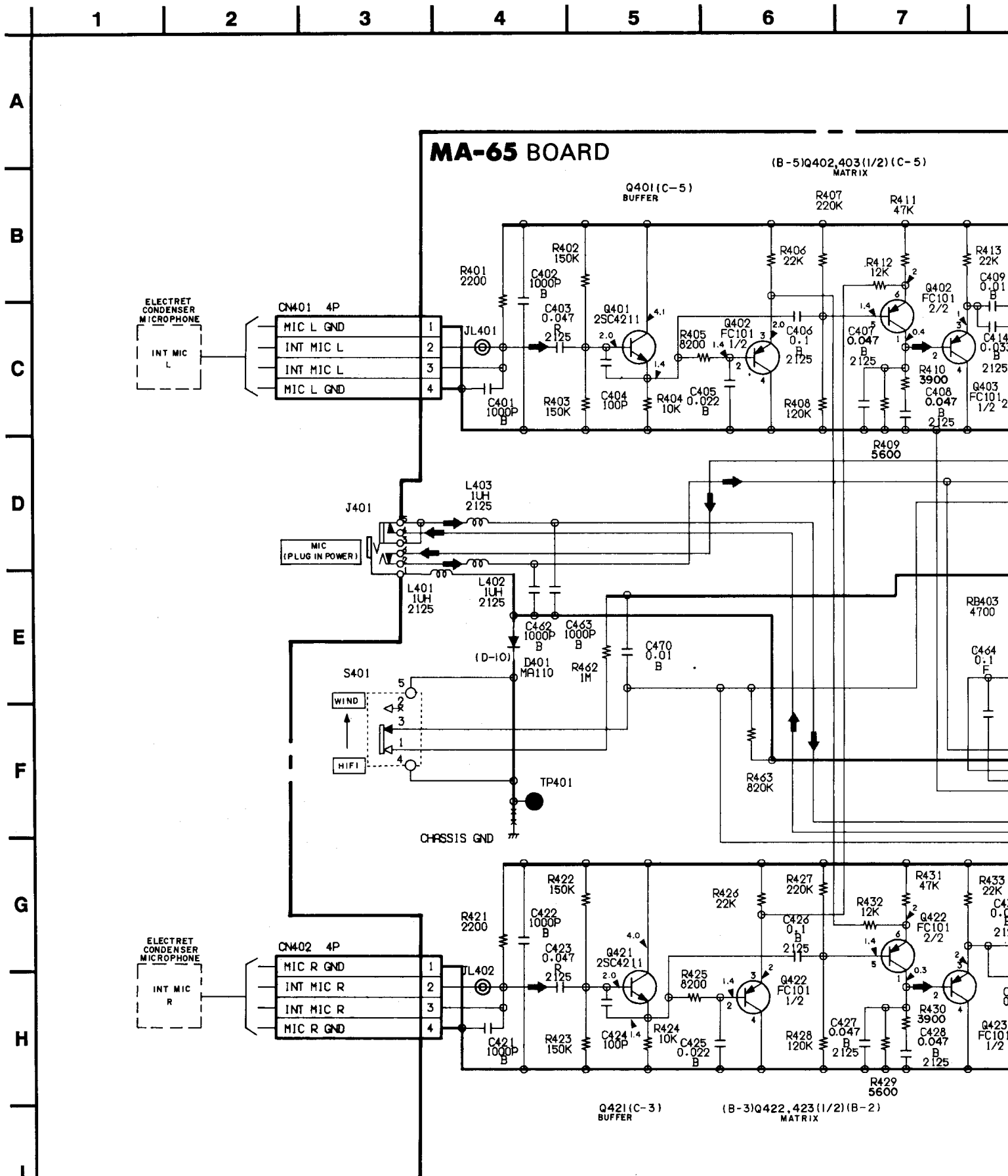
| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|---|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | | | | |
| PB | | | | |

MA-65 (MIC AMP), EL-10 (HEADPHONES/REMOTE JACK) SCHEMATIC DIAGRAMS

— Ref. No. MA-65, EL-10 BOARDS: 7000 series —

• For schematic diagrams.

• The code shown like (C-9) for each semi-
position of location address on the printed



09

semiconductor indicates the printed wiring board.

8

9

10

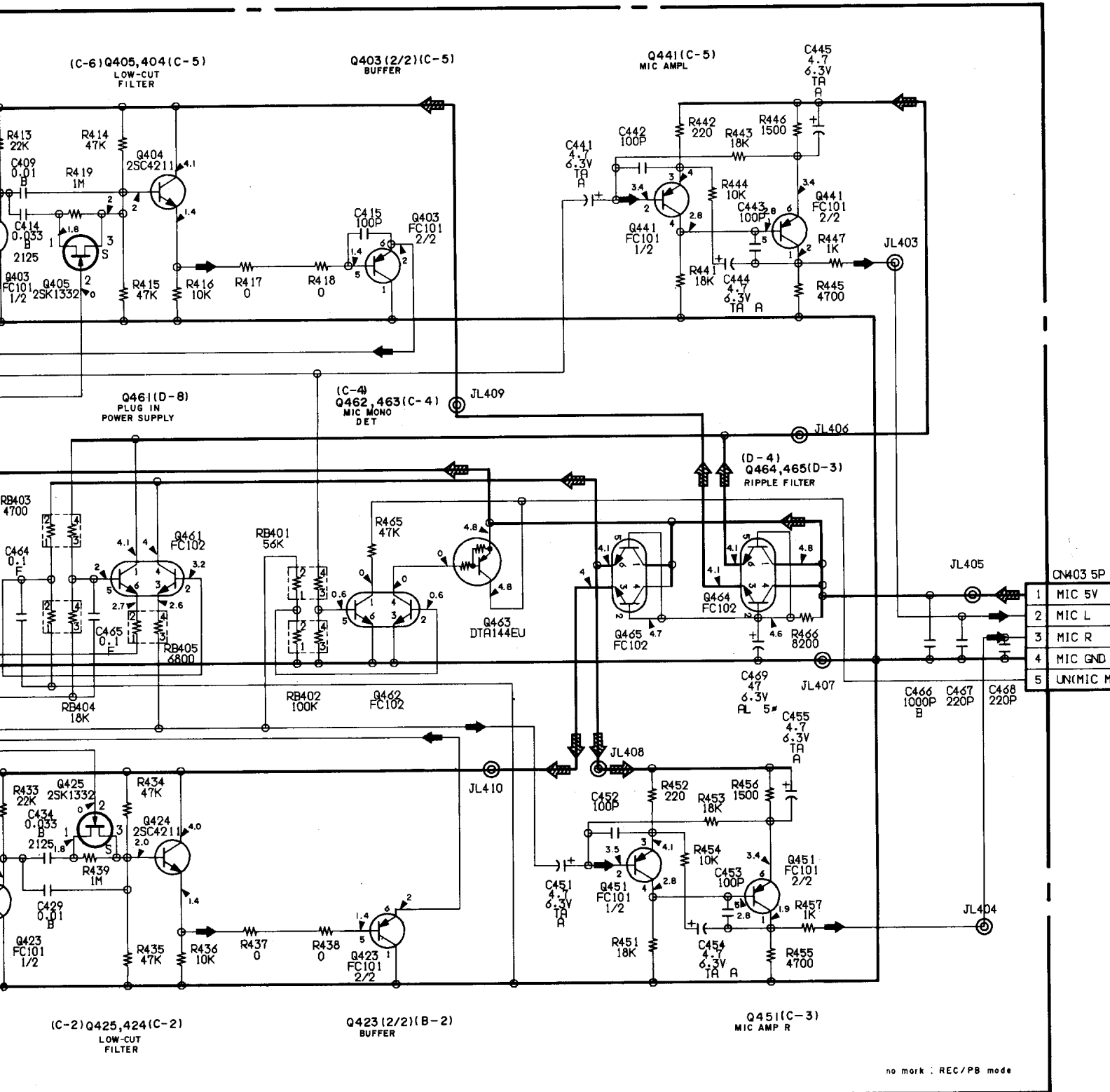
11

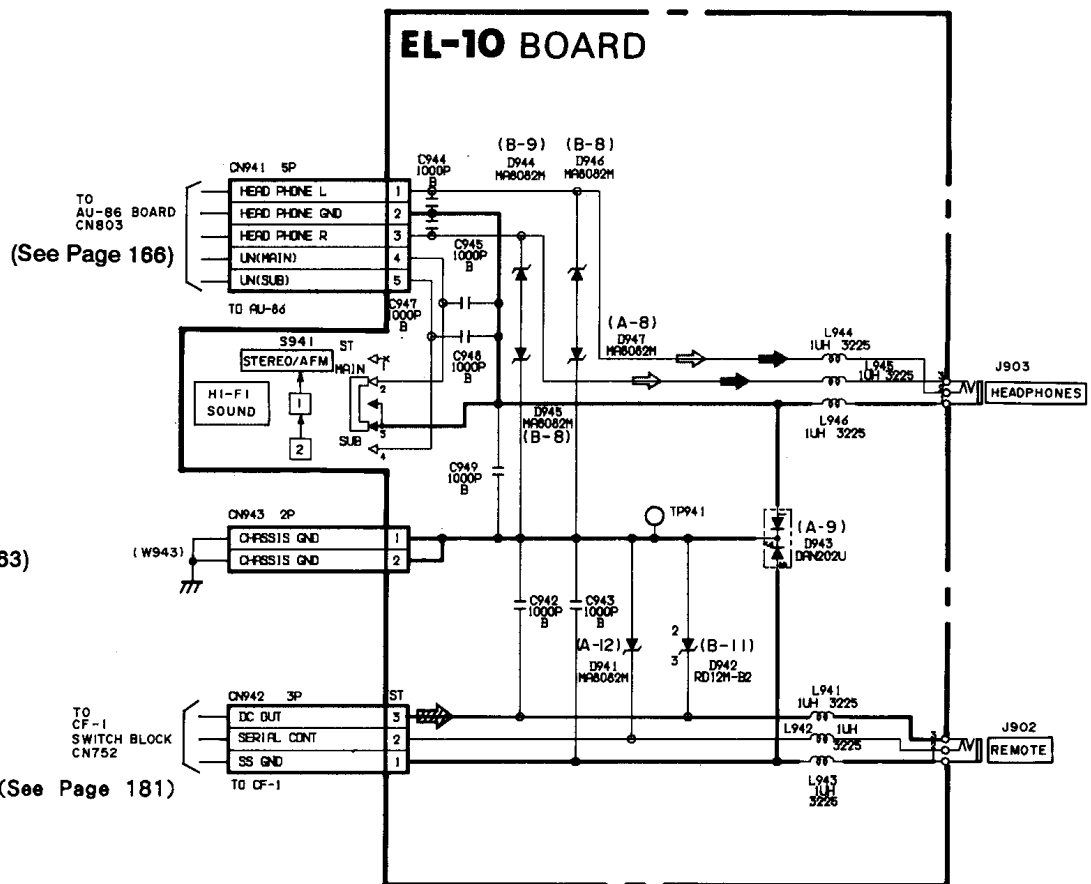
12

13

14

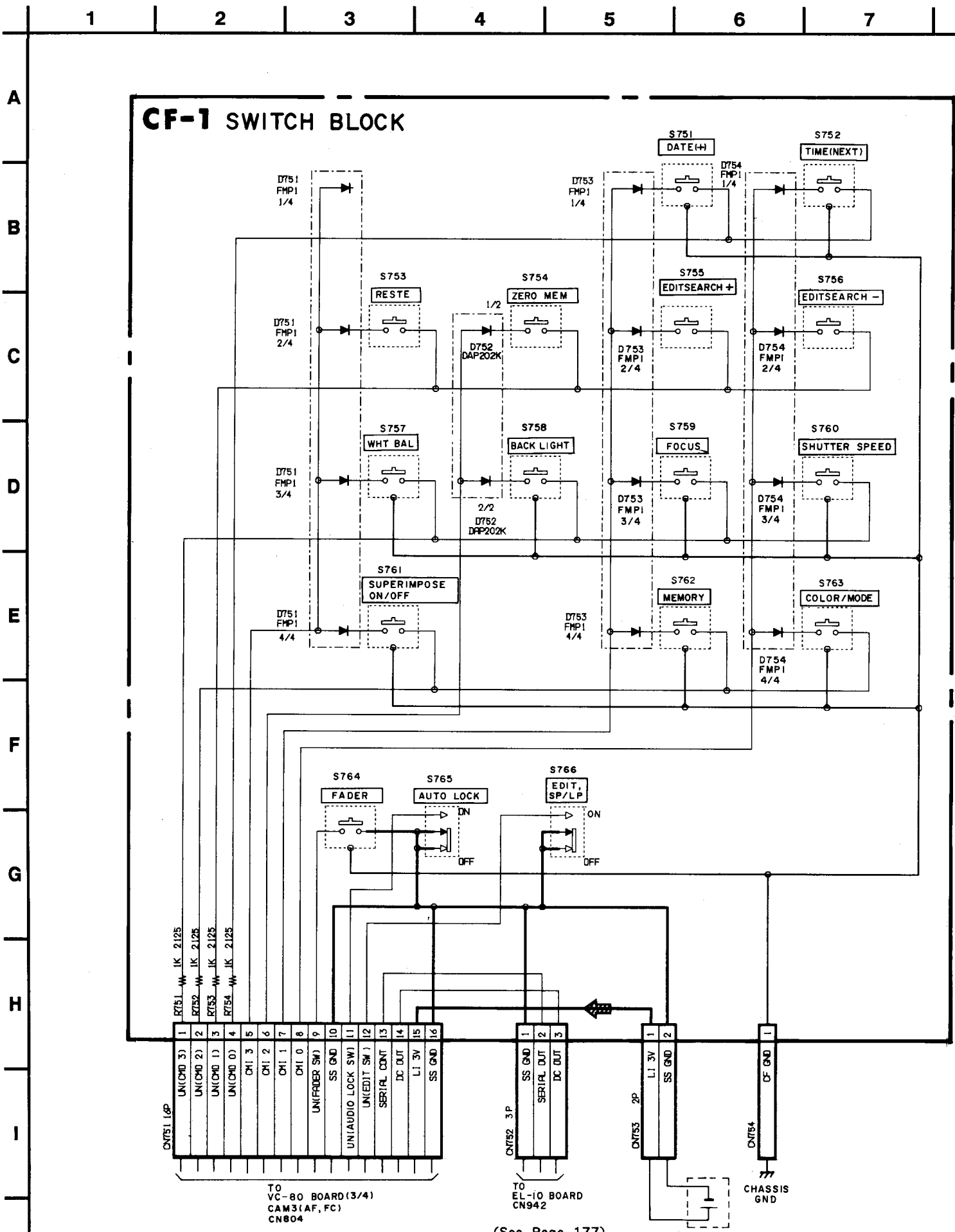
15





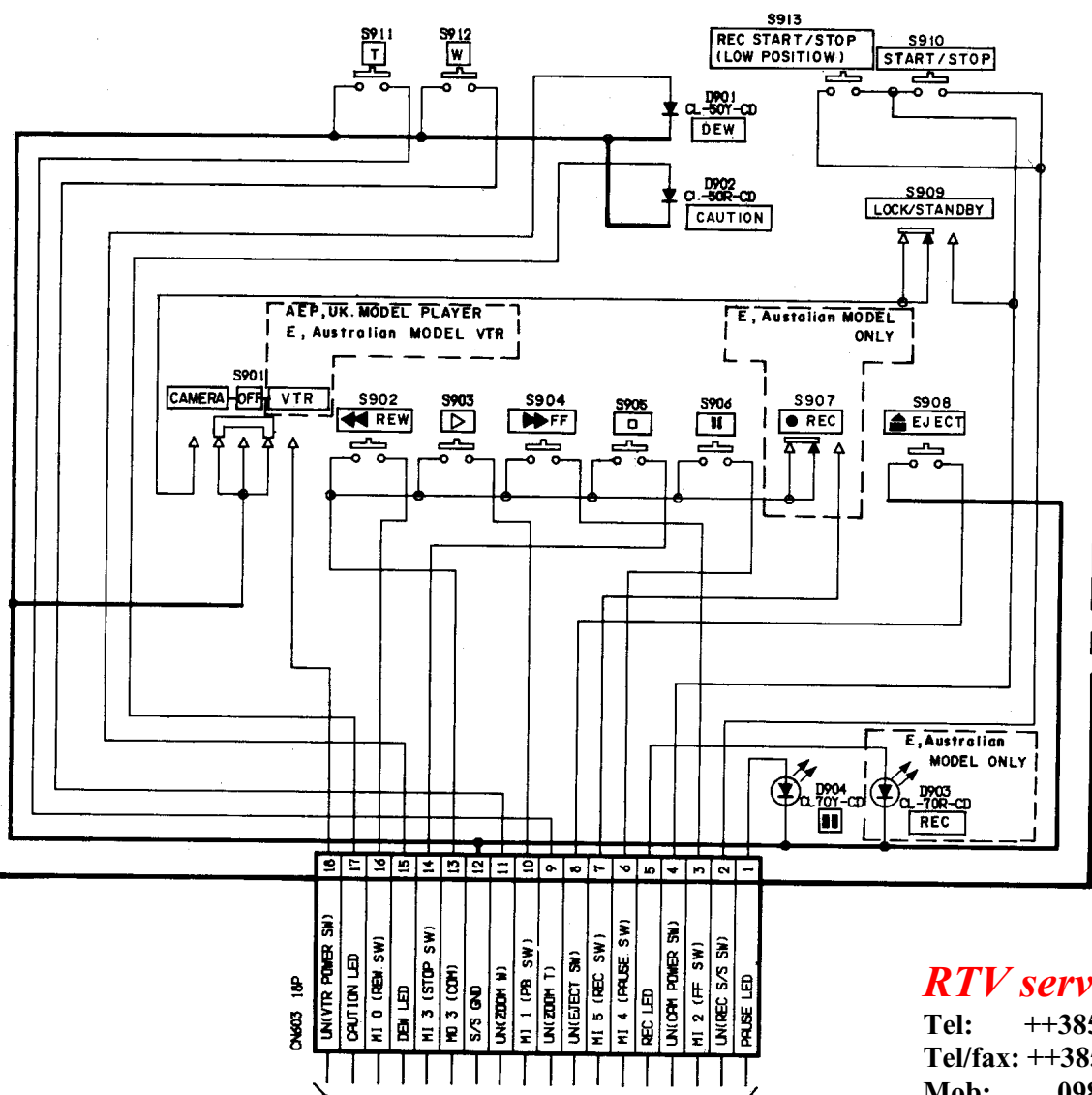
• SIGNAL PATH

| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|---|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | | | | ➔ |
| PB | | | | ➔ |



8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

FK-1 SWITCH BLOCK



| | | | | | | | | | | | | | | | |
|------------------|-------------|---------------|---------|----------------|------------|---------|------------|--------------|------------|--------------|---------------|-----------------|---------|------------------|--------------|
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| UN(VTR POWER SW) | CAUTION LED | MI 0 (REW SW) | DEM LED | MI 3 (STOP SW) | MD 3 (COM) | S/S GND | UN(ZOOM M) | MI 1 (PB SW) | UN(ZOOM T) | UN(EJECT SW) | MI 5 (REC SW) | MI 4 (PULSE SW) | REC LED | UN(COM POWER SW) | MI 2 (FF SW) |
| CN603 16P | | | | | | | | | | | | | | | |

TO VS-67 BOARD (3/3)
(SERVO SYSTEM CONTROL) (See Page 159)
CN603

• SIGNAL PATH

| | | |
|-----|--------------|---|
| | VIDEO SIGNAL | |
| | CHROMA | Y |
| REC | | |
| PB | | |

TO VS-67 BOARD (3/3)
(SERVO SYSTEM CONTROL)
(See Page 159)

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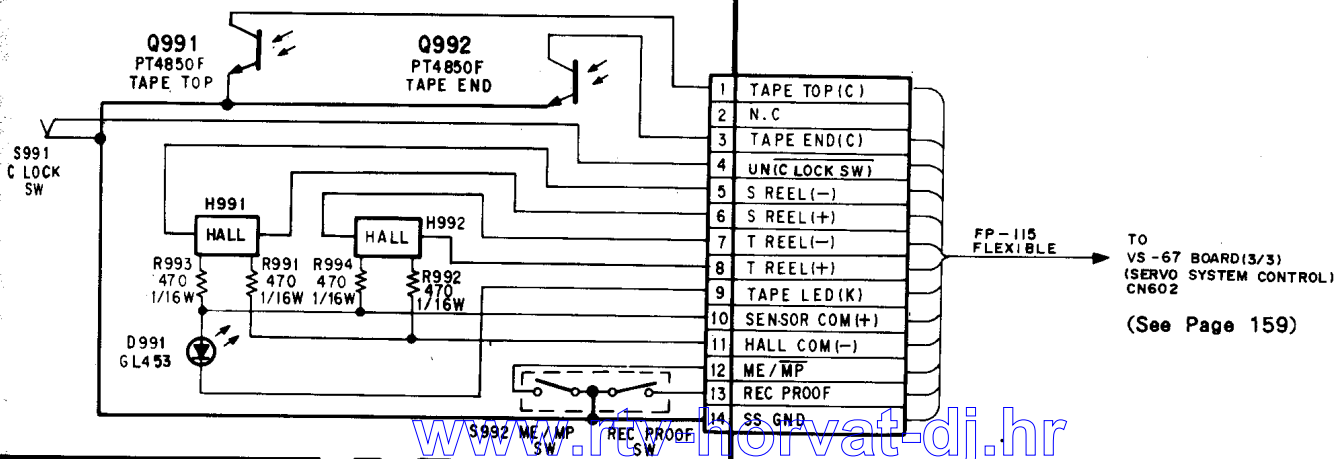
Tel: ++385-31-856-637

Tel/fax: ++385-31-856-139

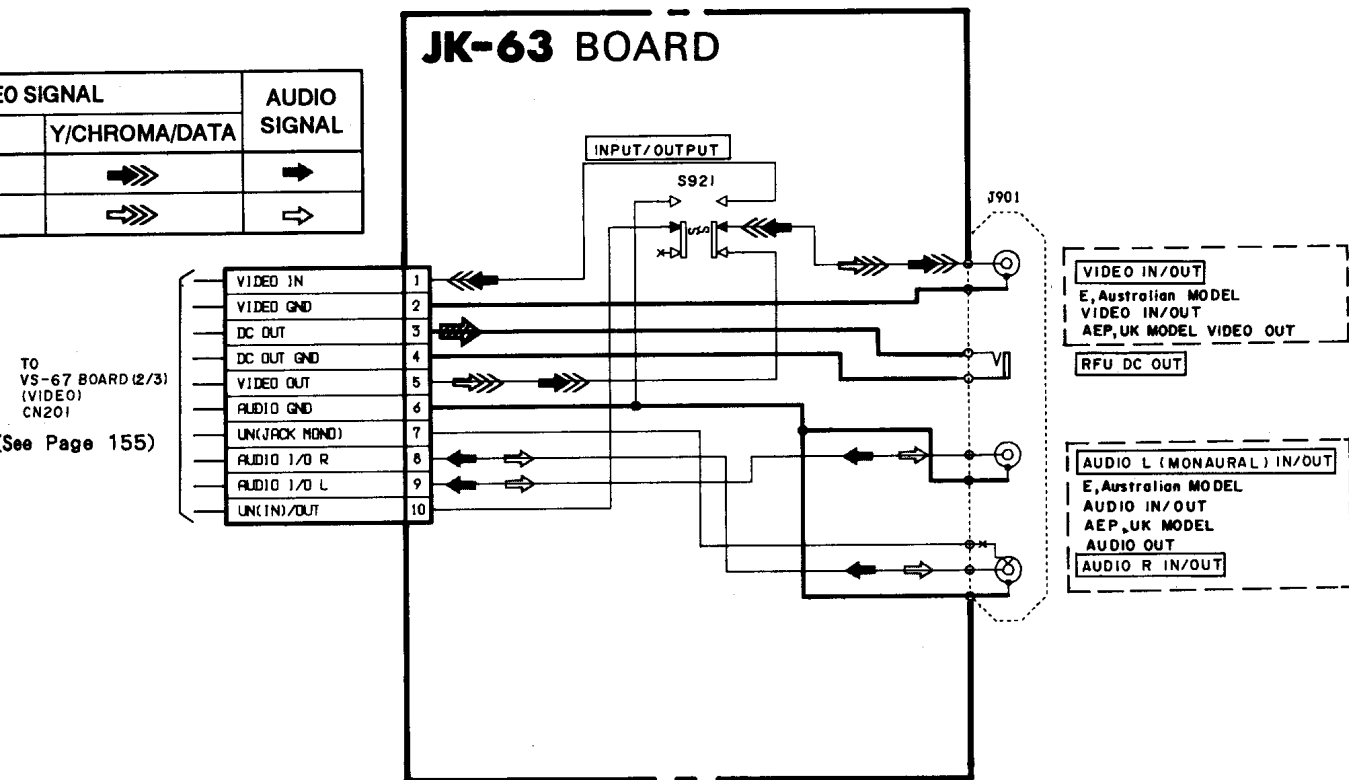
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FP-115 BOARD



(See Page 159)



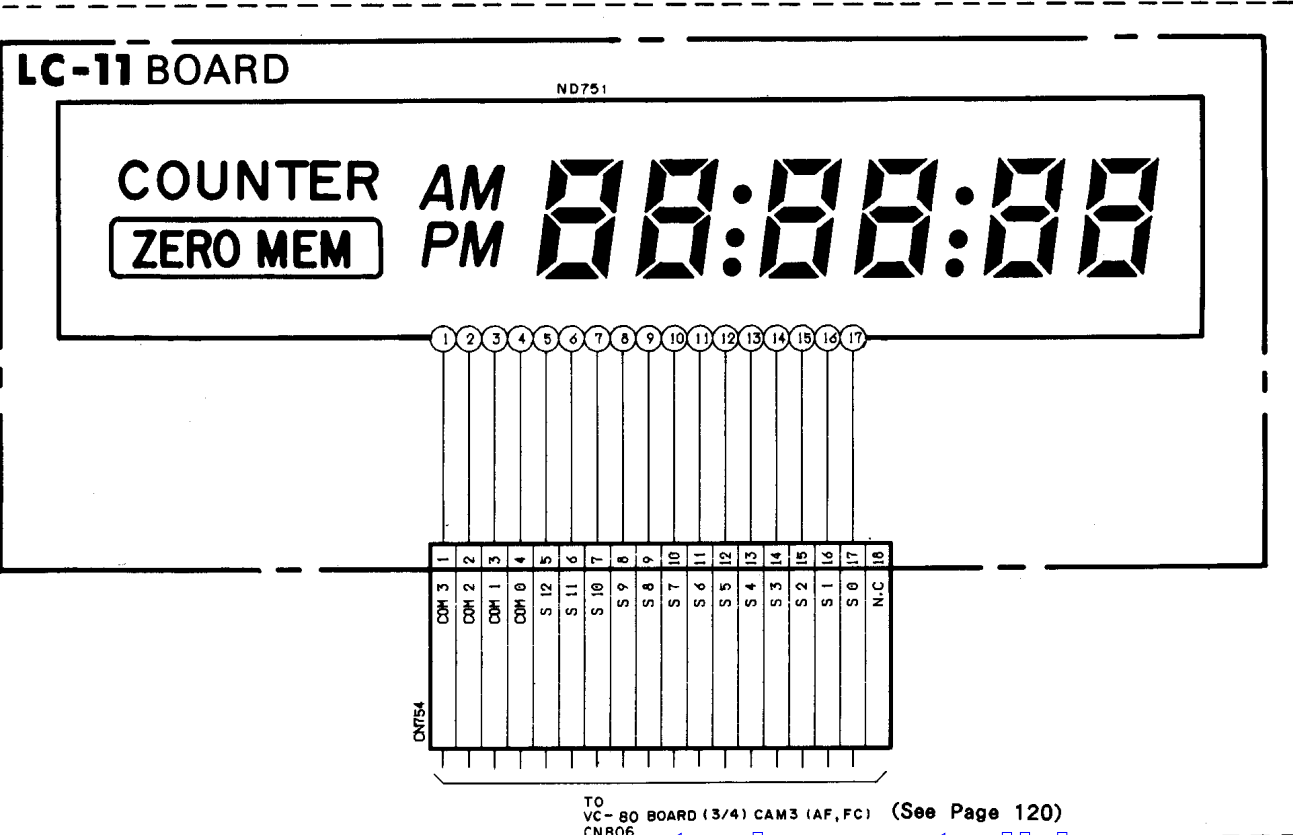
[Video/audio input/output switch (S921 on the JK-63 board) – for AEP/UK model]

Switch S921 is mounted on the JK-63 board, regardless of the destinations.

For AEP/UK model, however, the output cover is provided that won't be attached at the input position.

For AEP/UK model, S921 will function as IN/OUT switch of the video/audio like AUS and E models by switching with the cabinet(L) assembly removed.

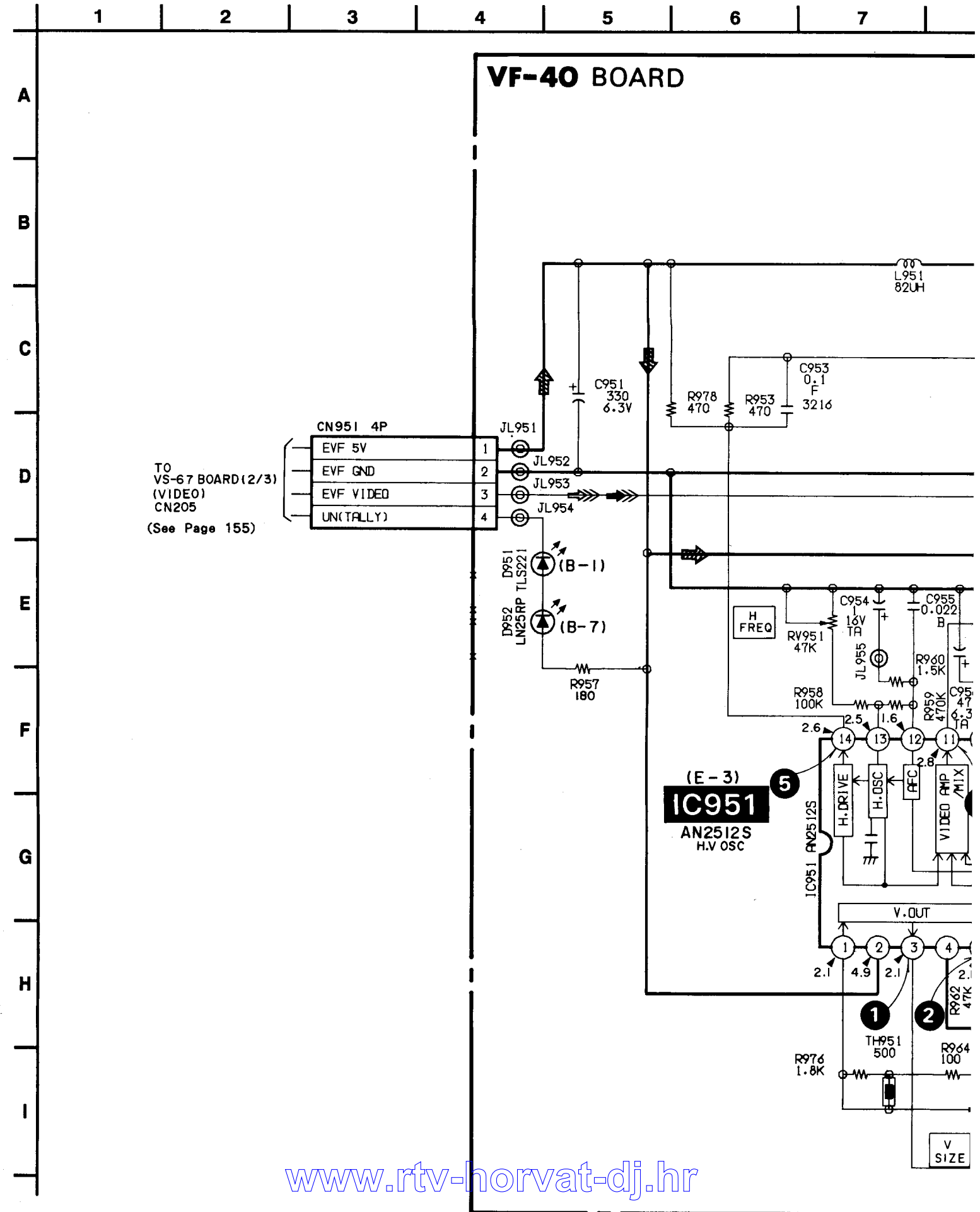
CD BLOCK



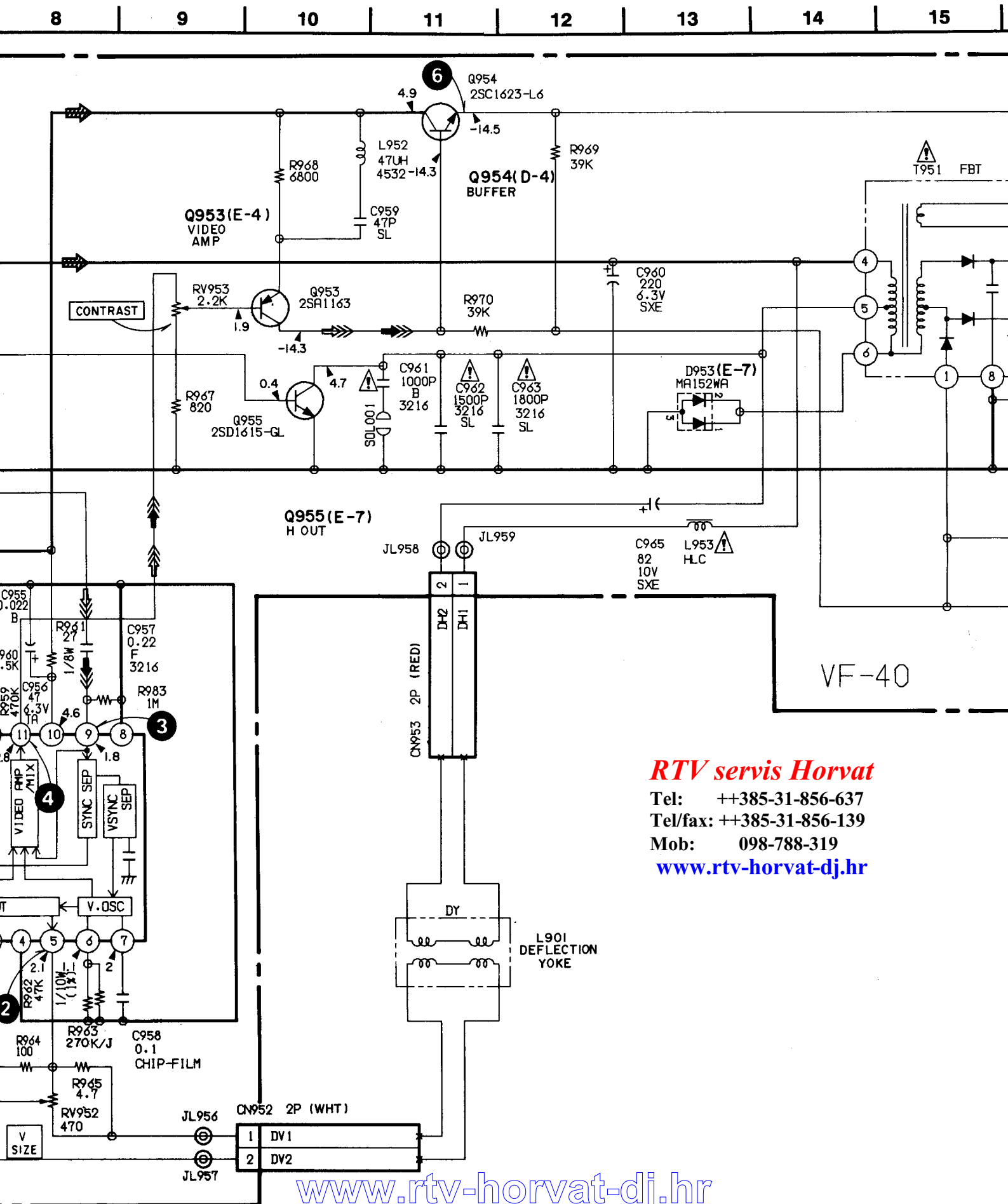
VF-40 (ELECTRICAL VIEW FINDER) SCHEMATIC DIAGRAMS

— Ref. No. VF-40 BOARD: 9000 series —

- For schematic diagrams.
- The posi
- Chip resistor are 1/10W unless otherwise noted.



- For schematic diagrams.
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.



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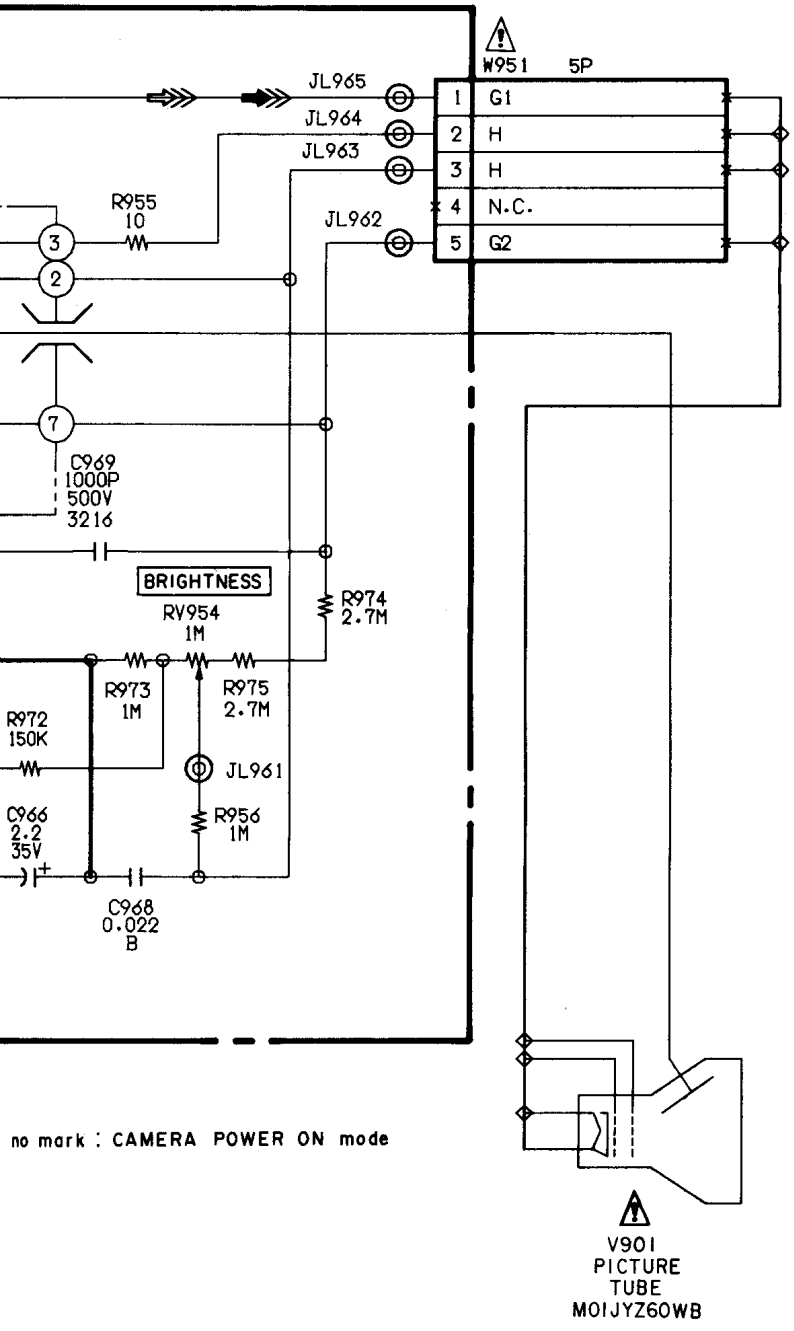
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• SIGNAL PATH

| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|-----|--------------|---|---------------|--------------|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | | | ➡➡➡ | |
| PB | | | ➡➡➡ | |