

# DCR-TRV238E/TRV239E

RMT-814

## SERVICE MANUAL

Level 3

Ver 1.1 2003. 05

**Self Diagnosis**  
Supported model

**Digital 8**

**Digital Handycam**

 InfoLITHIUM™

 M  
SERIES

 i™



Photo : DCR-TRV238E

**AEP Model**

**East European Model**

DCR-TRV238E/TRV239E

**UK Model**

**North European Model**

**Russian Model**

DCR-TRV238E

**M2000 MECHANISM**

The information that is not described in this Service Manual is described in the LEVEL 2 Service Manual.

When repairing, use this manual together with LEVEL 2 Service Manual.

### Contents of LEVEL 2 Service Manual

SERVICE NOTE	
1. GENERAL	
2. DISASSEMBLY	
3. BLOCK DIAGRAMS	OVERALL
	POWER
	CD-357 BOARD
	LB-076 BOARD
	SI-032 BOARD
	PD-156 BOARD
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS	CONTROL SWITCH BLOCK (CF-2500, FK-2500), (SS-1380)
	FP-411, FP-412, LS-057, FP-228, FP-299, FP-300, FP-302, FP-301, FP-410 FLEXIBLE BOARD
5. ADJUSTMENTS	
6. REPAIR PARTS LIST	EXPLODED VIEWS
	ELECTRICAL PARTS LIST

 DIGITAL VIDEO CAMERA RECORDER

**SONY®**

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ▲ OR DOTTED LINE WITH MARK ▲ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

## **SAFETY CHECK-OUT**

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
  - Keep the temperature of the soldering iron around 270°C during repairing.
  - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
  - Be careful not to apply force on the conductor when soldering or unsoldering.

### **Unleaded solder**

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.  
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



### **: LEAD FREE MARK**

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.  
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.  
Soldering irons using a temperature regulator should be set to about 350°C.  
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity  
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder  
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

## TABLE OF CONTENTS

<b>4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS</b>	
4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS .....	4-29
• VC-276 (CAMERA PROCESS)(1/22) SCHEMATIC DIAGRAM .....	4-29
• VC-276 (CAMERA PROCESS, Hi8/STD8 PB PROCESS)(2/22) SCHEMATIC DIAGRAM .....	4-31
• VC-276 (IRIS/FOCUS/ZOOM DRIVE)(3/22) SCHEMATIC DIAGRAM .....	4-33
• VC-276 (CAMERA/MPEG MOVIE/DIGITAL STILL, CHARACTER, AUDIO)(4/22) SCHEMATIC DIAGRAM .....	4-35
• VC-276 (DV SIGNAL PROCESS)(5/22) SCHEMATIC DIAGRAM .....	4-37
• VC-276 (DV INTERFACE)(6/22) SCHEMATIC DIAGRAM .....	4-39
• VC-276 (DIGITAL8 PB RF AMP)(7/22) SCHEMATIC DIAGRAM .....	4-41
• VC-276 (VIDEO IN/OUT)(8/22) SCHEMATIC DIAGRAM .....	4-43
• VC-276 (VIDEO A/D CONVERTER)(9/22) SCHEMATIC DIAGRAM .....	4-45
• VC-276 (Hi8/STD8 PB RF AMP)(10/22) SCHEMATIC DIAGRAM .....	4-47
• VC-276 (EVF DRIVE)(11/22) SCHEMATIC DIAGRAM .....	4-49
• VC-276 (USB I/F)(12/22) SCHEMATIC DIAGRAM .....	4-51
• VC-276 (DRUM/CAPSTAN DRIVE)(13/22) SCHEMATIC DIAGRAM .....	4-53
• VC-276 (CAMERA/MECHA CONTROL, SIGNAL CONTROL)(14/22) SCHEMATIC DIAGRAM .....	4-55
• VC-276 (HI CONTROL)(15/22) SCHEMATIC DIAGRAM .....	4-57
• VC-276 (AUDIO)(16/22) SCHEMATIC DIAGRAM .....	4-59
• VC-276 (MIC AMP)(17/22) SCHEMATIC DIAGRAM .....	4-61
• VC-276 (PITCH/YAW SENSOR AMP, D/A CONV.)(18/22) SCHEMATIC DIAGRAM .....	4-63
• VC-276 (DC IN, CHARGE)(19/22) SCHEMATIC DIAGRAM .....	4-65
• VC-276 (DC/DC CONVERTER)(20/22) SCHEMATIC DIAGRAM .....	4-67
• VC-276 (CONNECTOR)(21/22) SCHEMATIC DIAGRAM .....	4-69
• VC-276 (LANC/RESET/BEEP I/F, CONNECTOR)(22/22) SCHEMATIC DIAGRAM .....	4-71
• VC-276 (CAMERA PROCESS, Hi8/STD8 PB PROCESS, IRIS/FOCUS/ZOOM DRIVE, CAMERA/MPEG MOVIE/DIGITAL STILL, CHARACTER, AUDIO, DIGITAL STILL CONTROL, FLASH MEMORY, SDRAM, DV SIGNAL PROCESS, DV INTERFACE, DIGITAL8 PB RF AMP, VIDEO IN/OUT, VIDEO A/D CONVERTER, Hi8/STD8 PB RF AMP, EVF DRIVE, USB, DC IN, CHARGE, DC/DC CONVERTER, CONNECTOR, LANC/RESET/BEEP I/F) PRINTED WIRING BOARD .....	4-73
4-3. WAVEFORMS .....	4-78
4-4. MOUNTED PARTS LOCATION .....	4-81
<b>6. REPAIR PARTS LIST</b>	
6-2. ELECTRICAL PARTS LIST .....	6-14

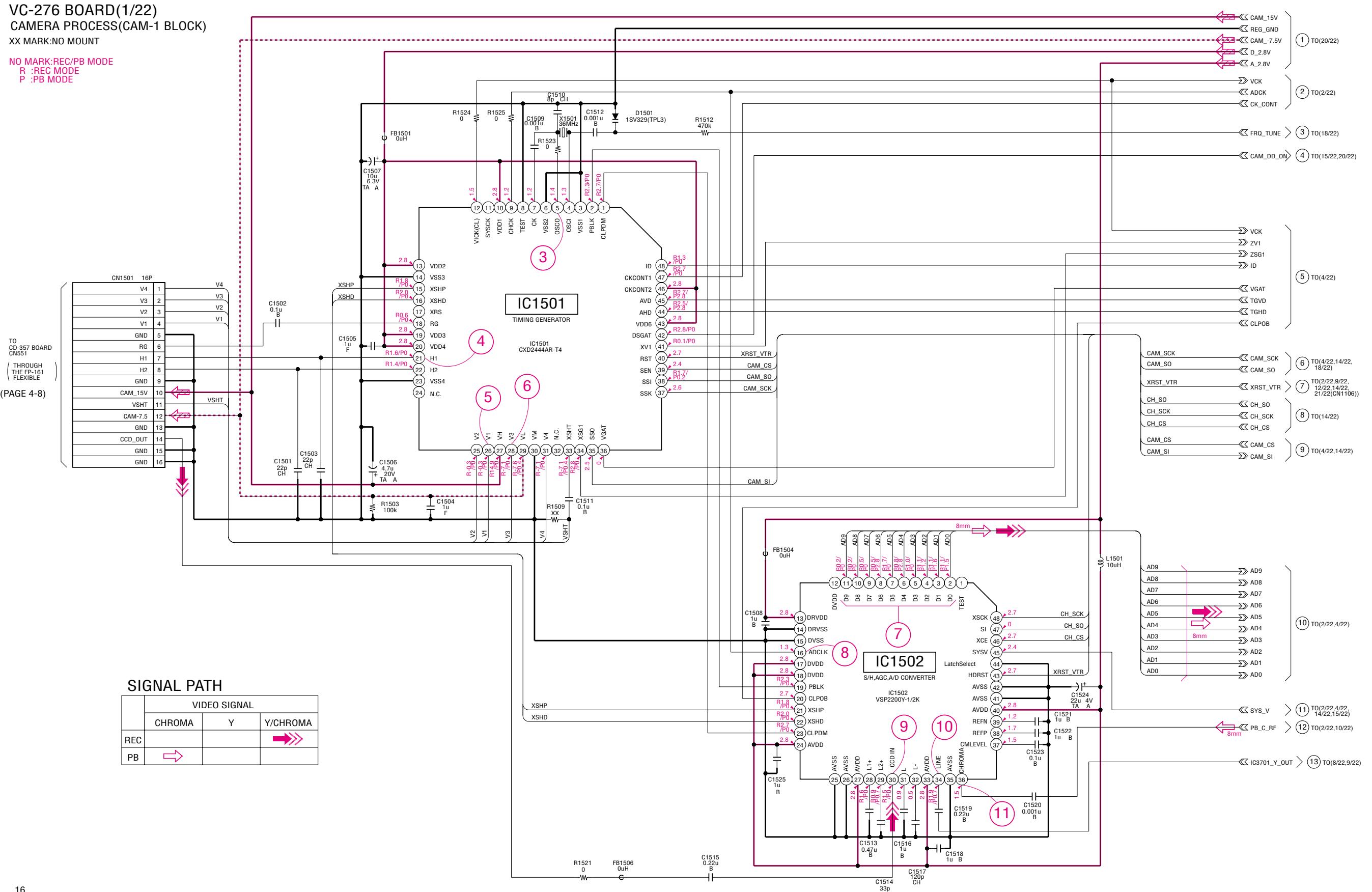
**SECTION 4**  
**PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS**

## 4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

## For Schematic Diagram

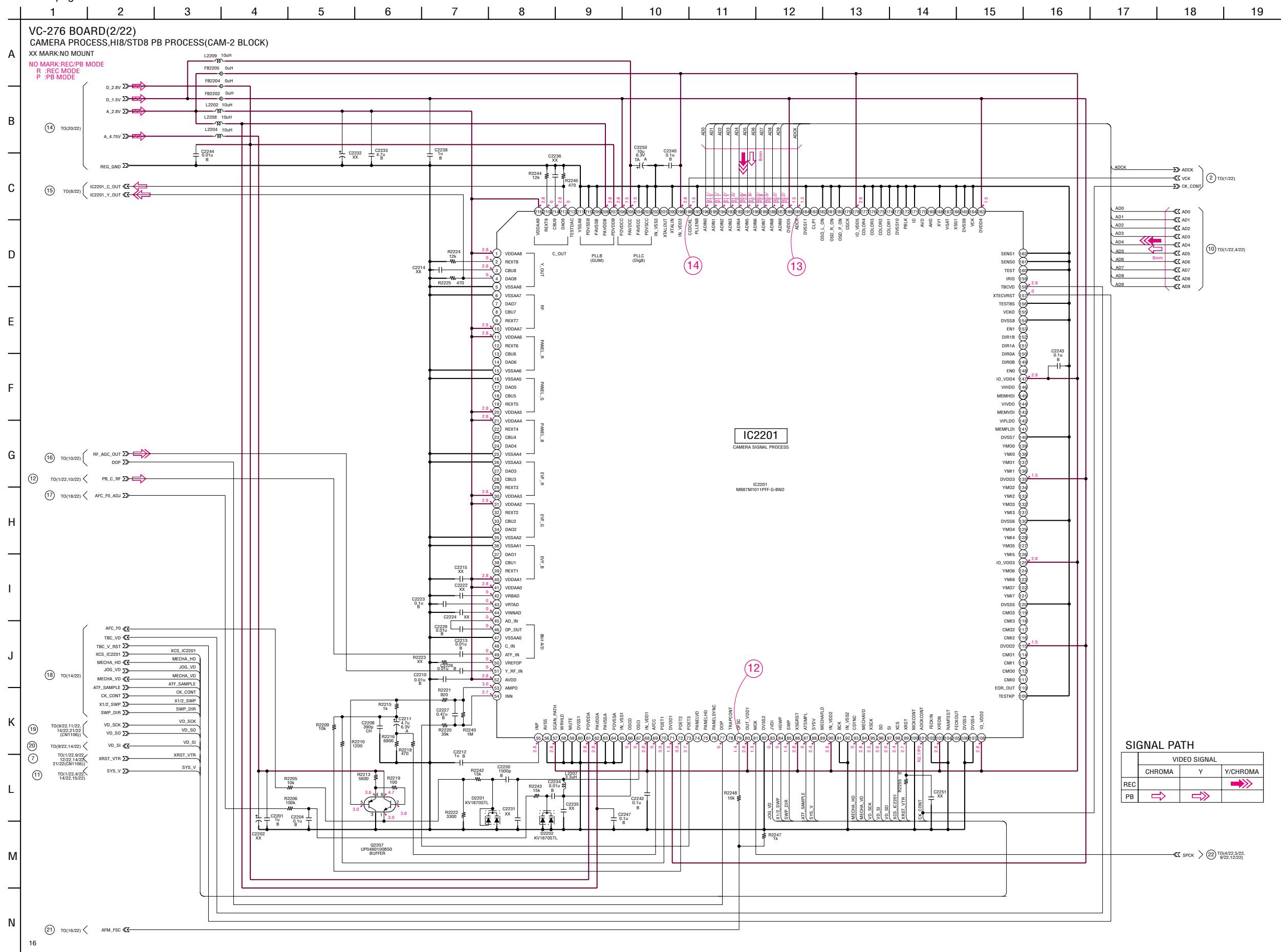
- Refer to page 4-73 for printed wiring board.
- Refer to page 4-78 for waveforms.

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



**For Schematic Diagram**

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-78 for waveforms.



## For Schematic Diagram

• Refer to page 4-73 for printed wiring board.

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

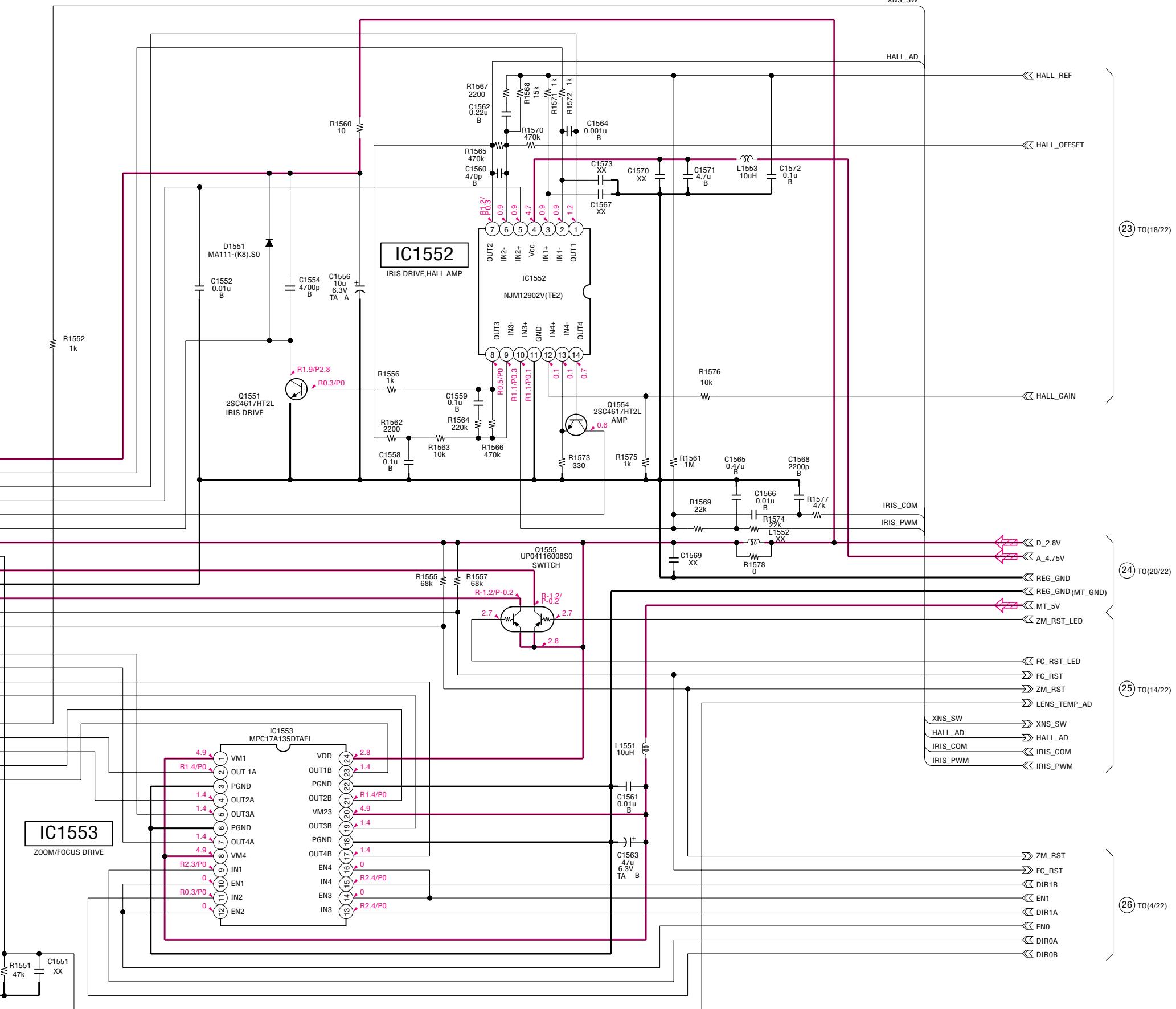
VC-276 BOARD(3/22)  
IRIS/FOCUS/ZOOMDRIVE(LD BLOCK)

XX MARK: NO MOUNT

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

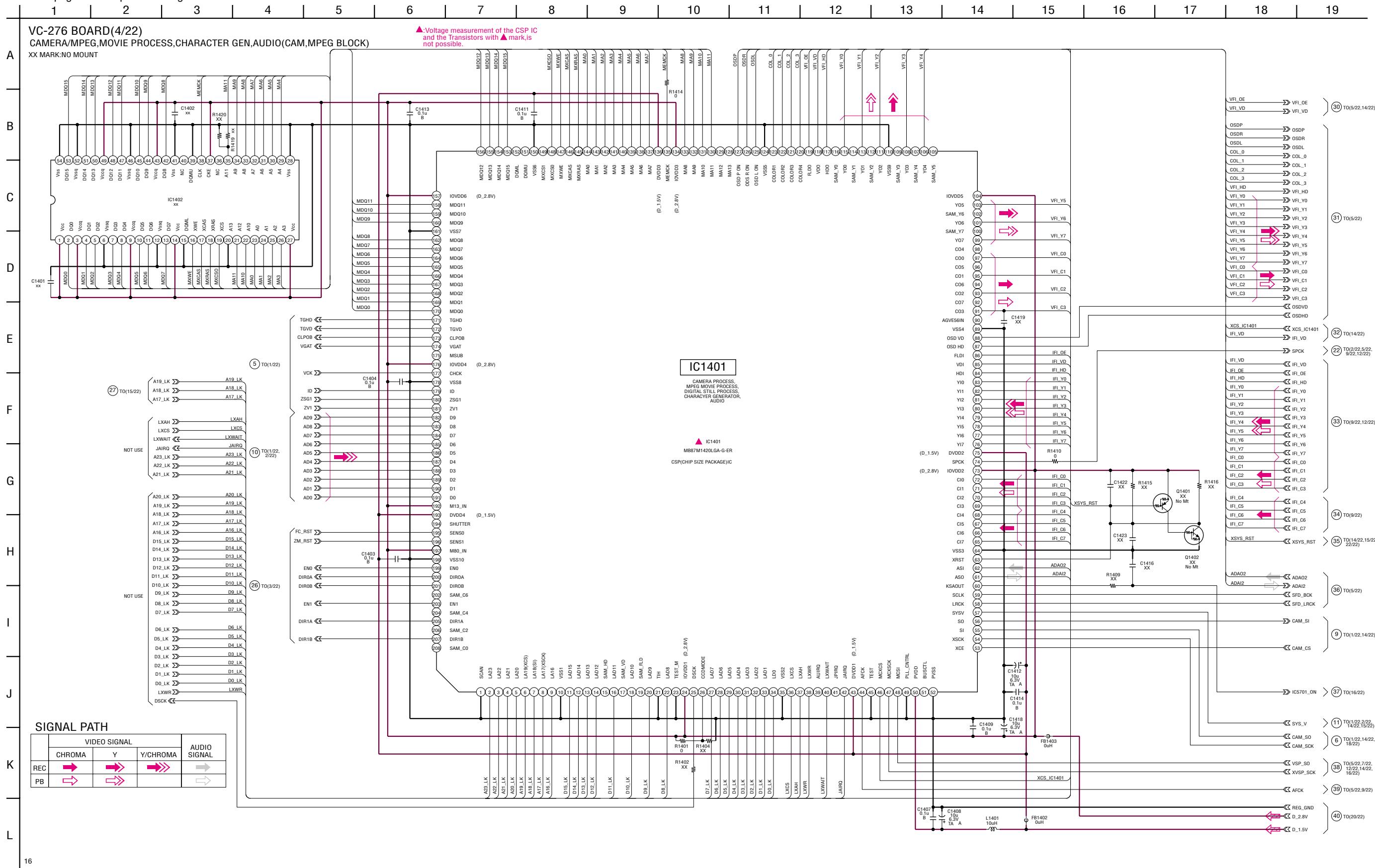
CN1551 24P	
IRIS_DRIVE(+)	24
IRIS_HALL(+)	23
IRIS_BIAS(+)	22
IRIS_HALL(-)	21
IRIS_BIAS(-)	20
IRIS_DRIVE(-)	19
TEMP	18
TEMP	17
ZM_SENSE_VCC	16
GND	15
FC_SENSE_VCC	14
FC_SENSE_OUT	13
ZM_SENSE_OUT	12
N.C.	11
ZOOM_A	10
ZOOM_B	9
ZOOM_XB	8
ZOOM_XA	7
IR_SWITCH	6
IR_SWITCH	5
FOCUS_A	4
FOCUS_B	3
FOCUS_XB	2
FOCUS_XA	1

ZOOM LENS BLOCK is replaced as a block so that the SCHEMATIC DIAGRAM and PRINTED WIRING BOARD are omitted.



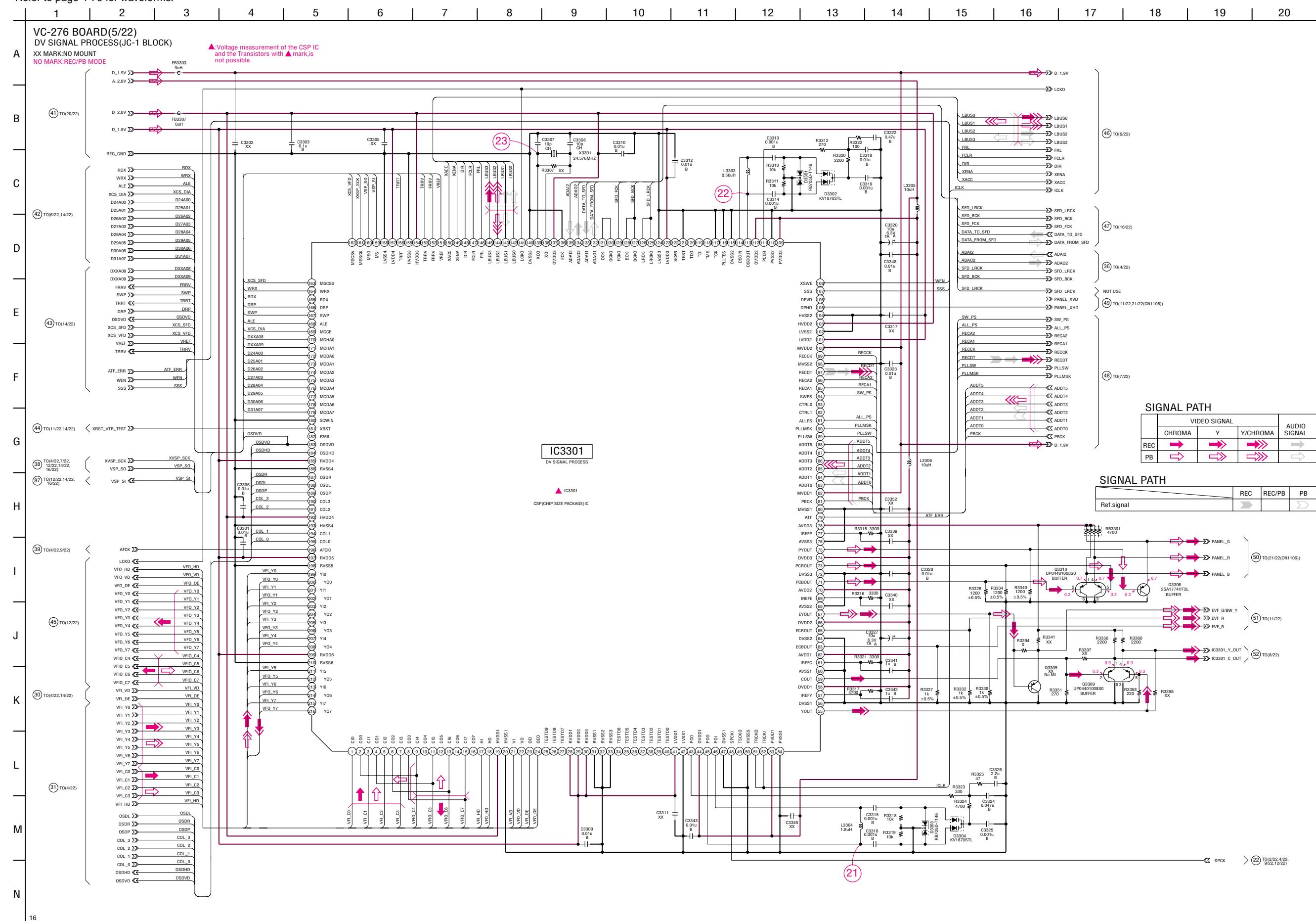
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.



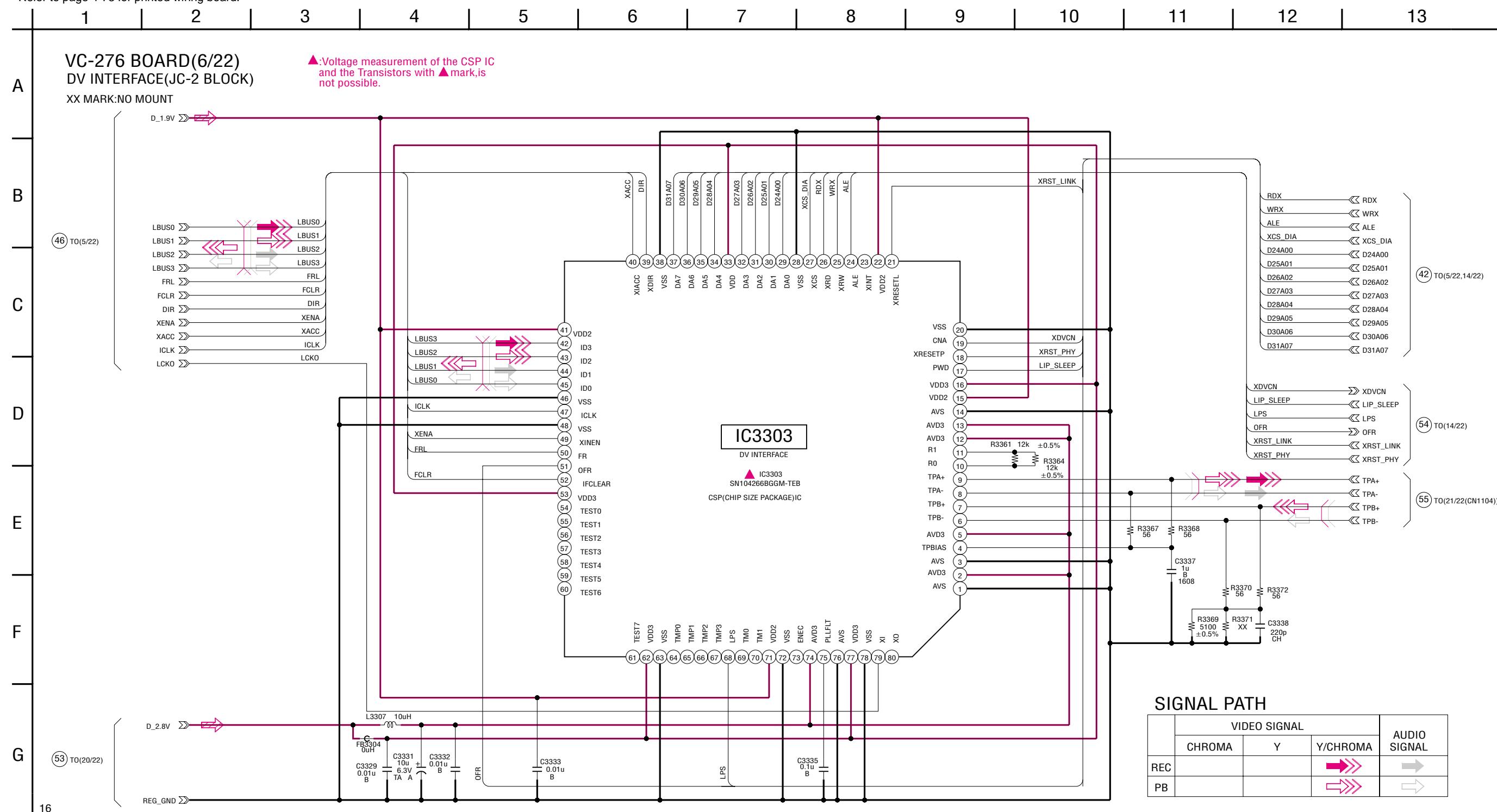
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-79 for waveforms.



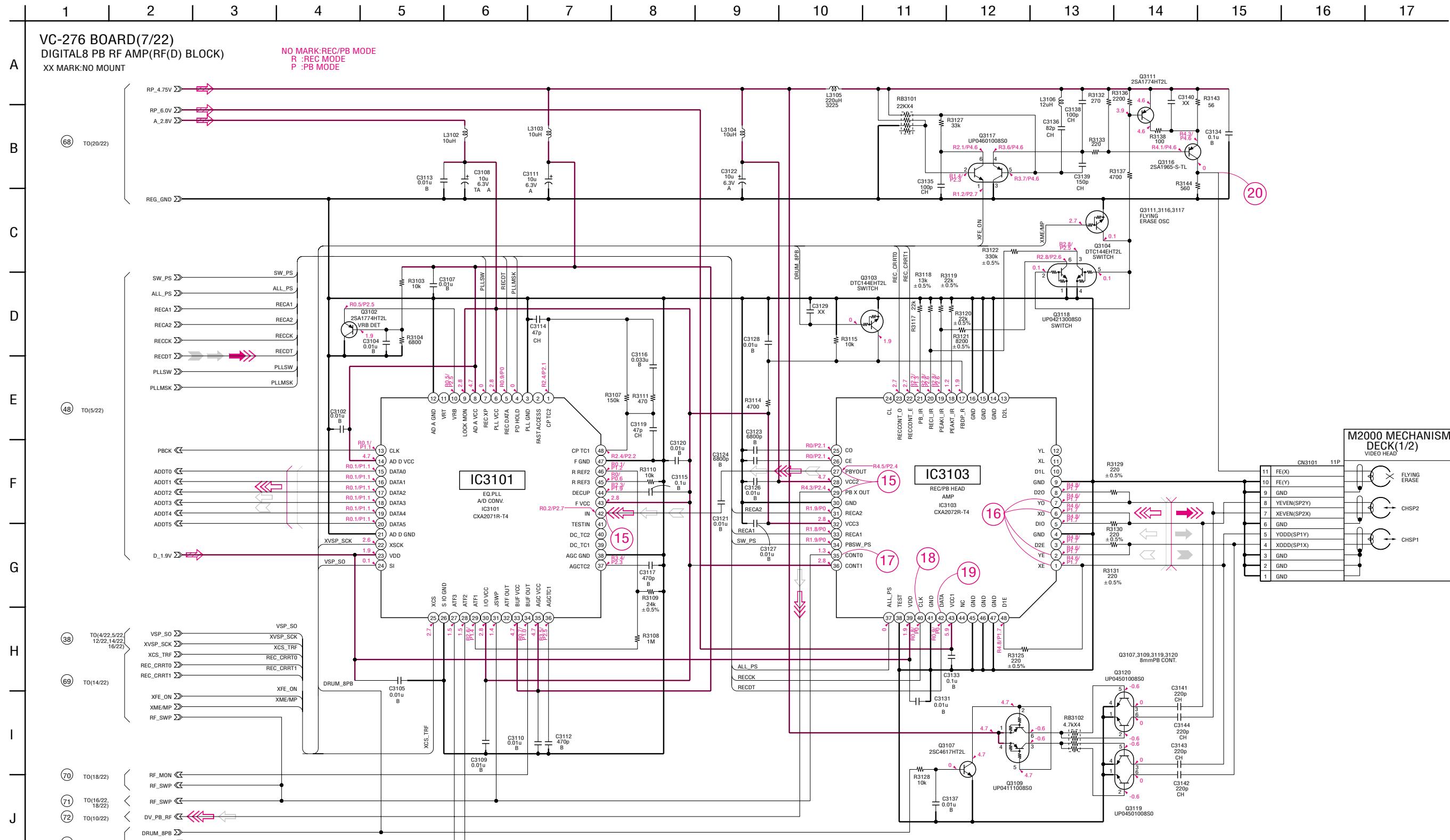
### For Schematic Diagram

- Refer to page 4-73 for printed wiring board.



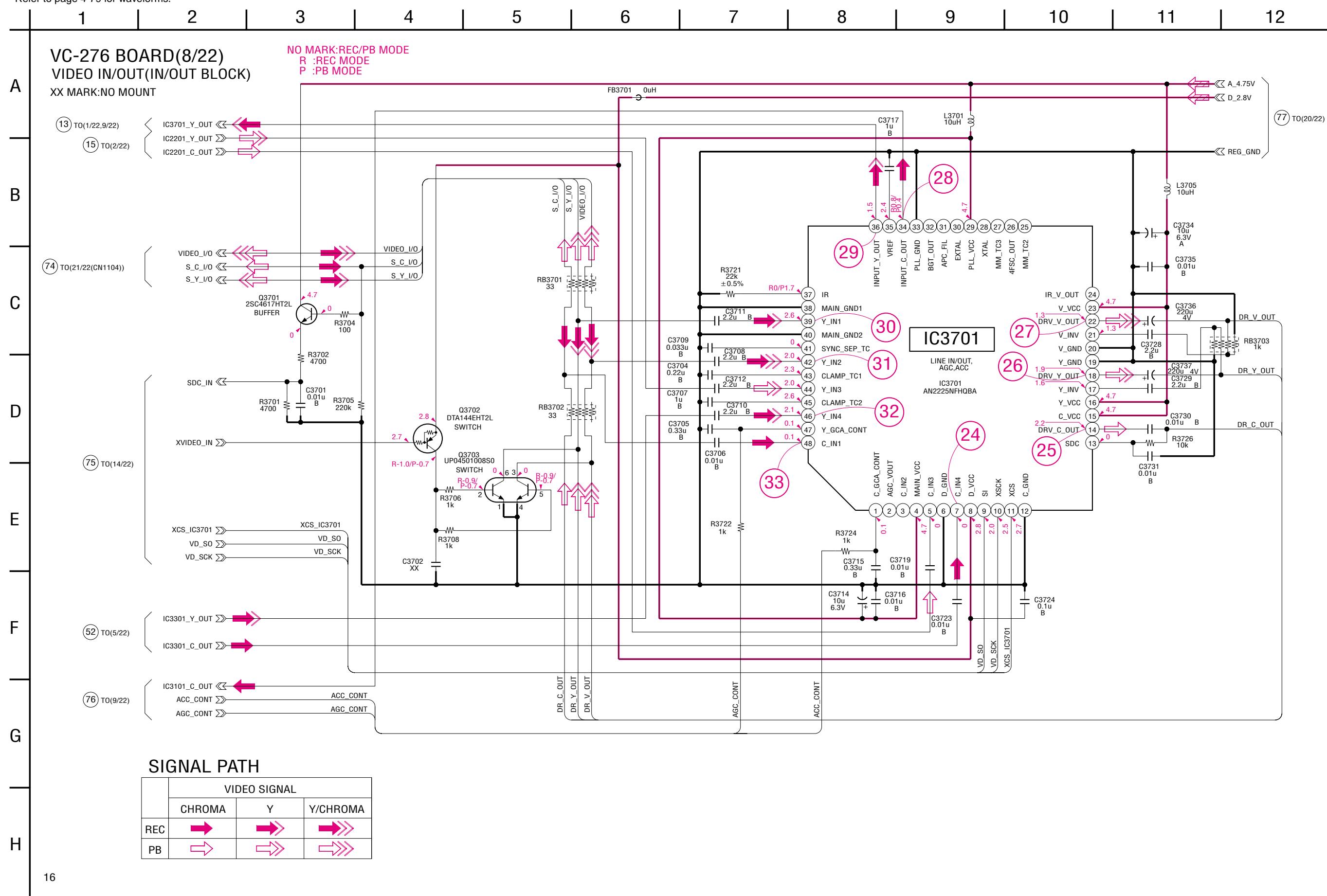
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-78 and 4-79 for waveforms.



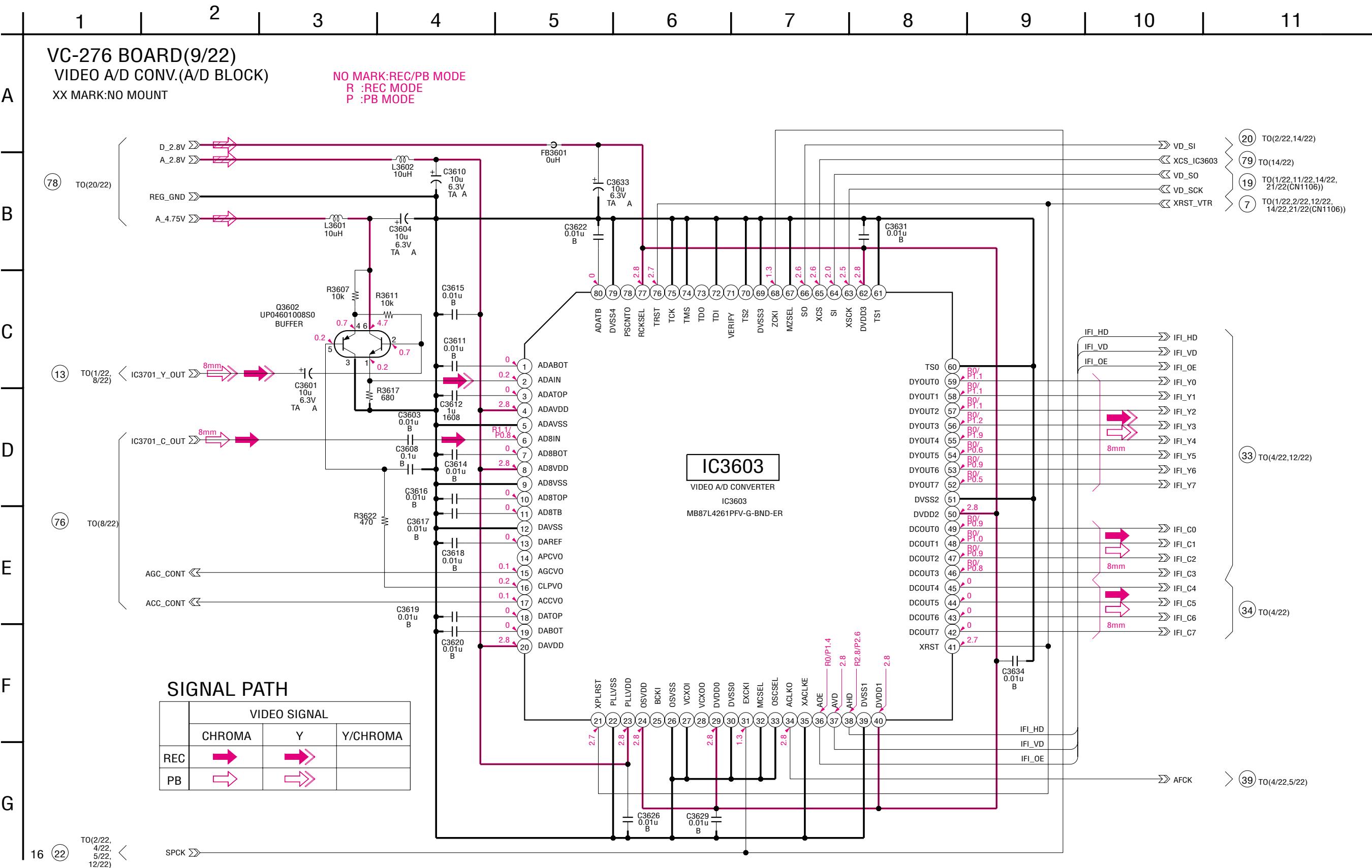
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-79 for waveforms.



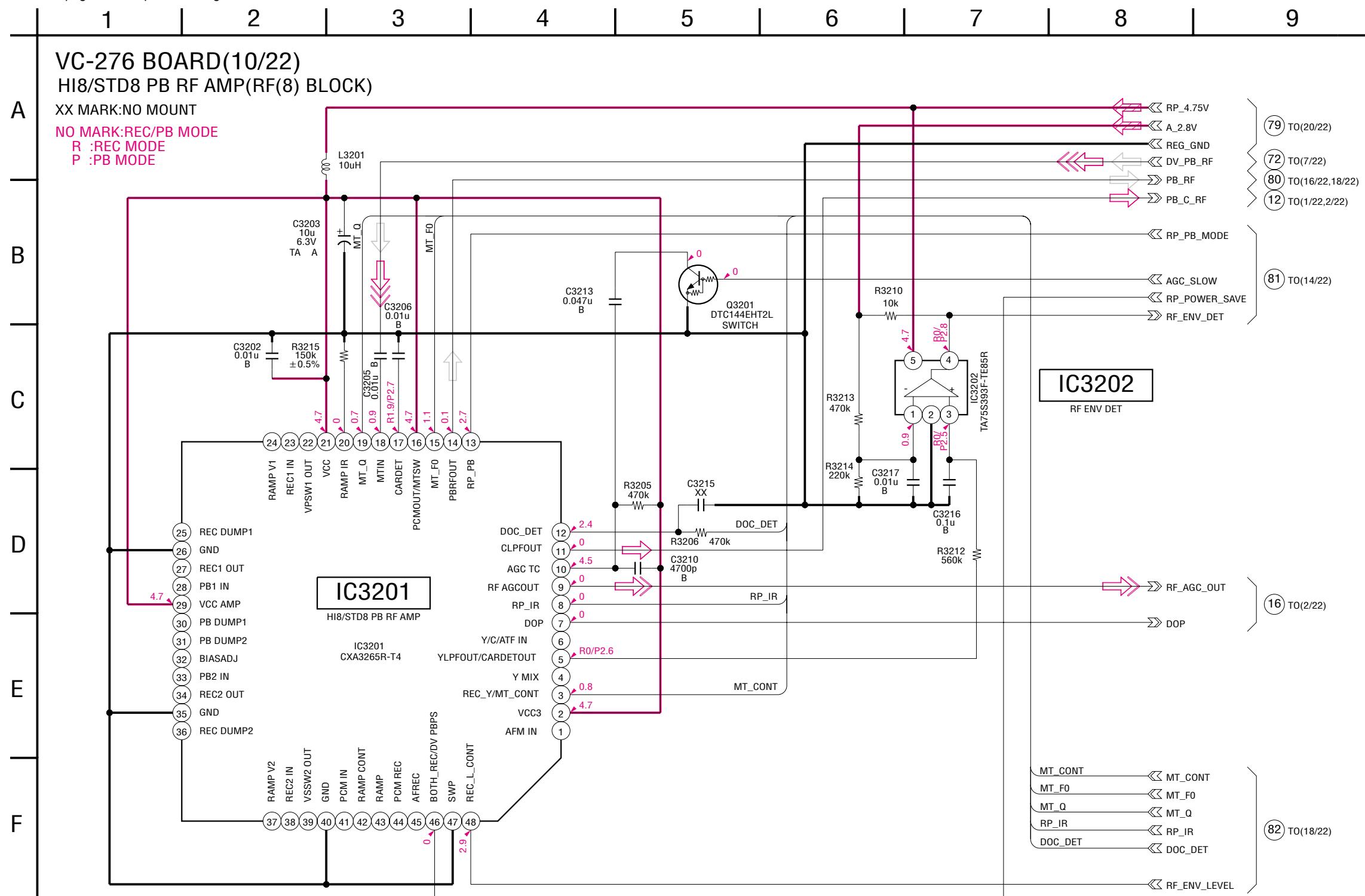
### **For Schematic Diagram**

- Refer to page 4-73 for printed wiring board.



## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.

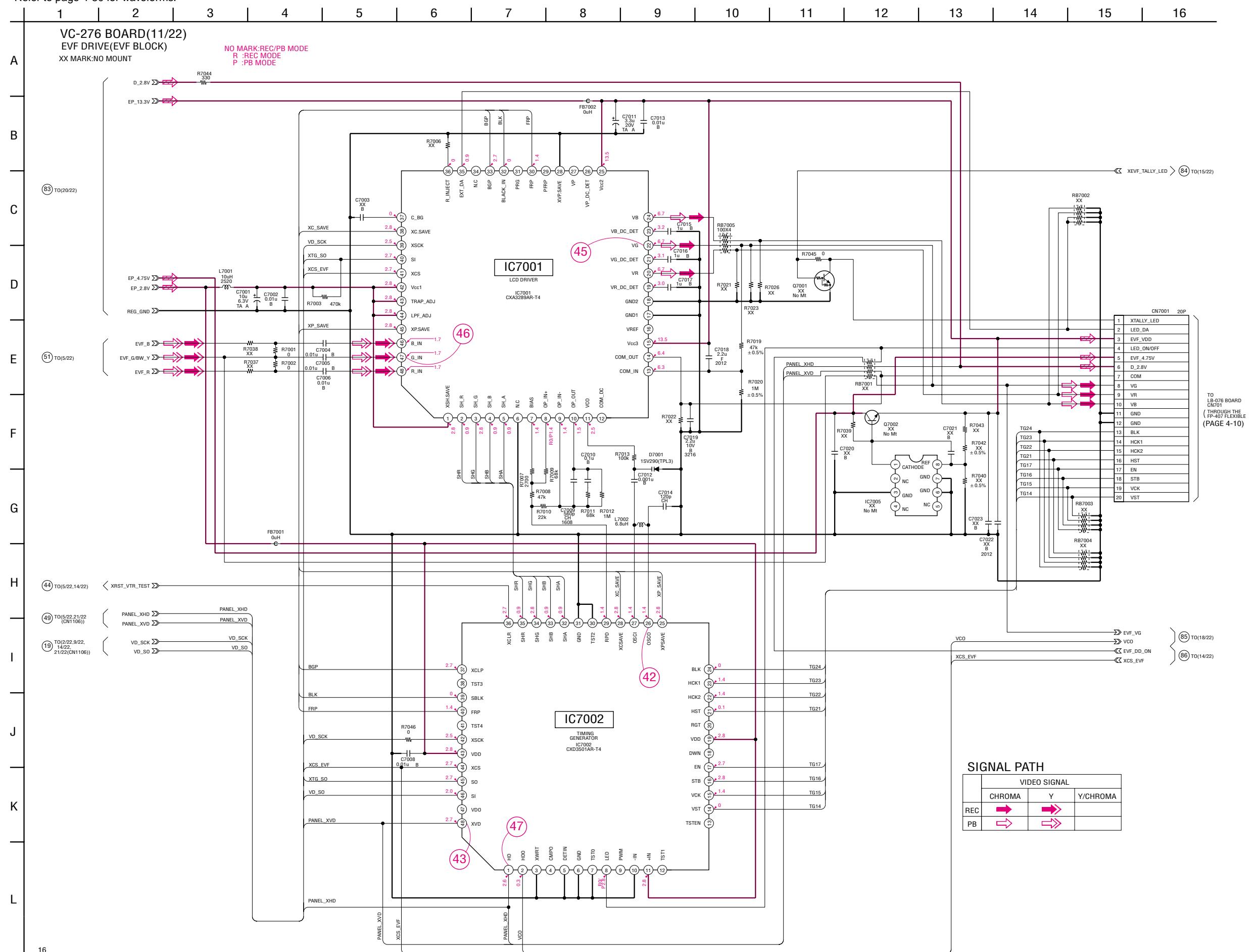


## SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				

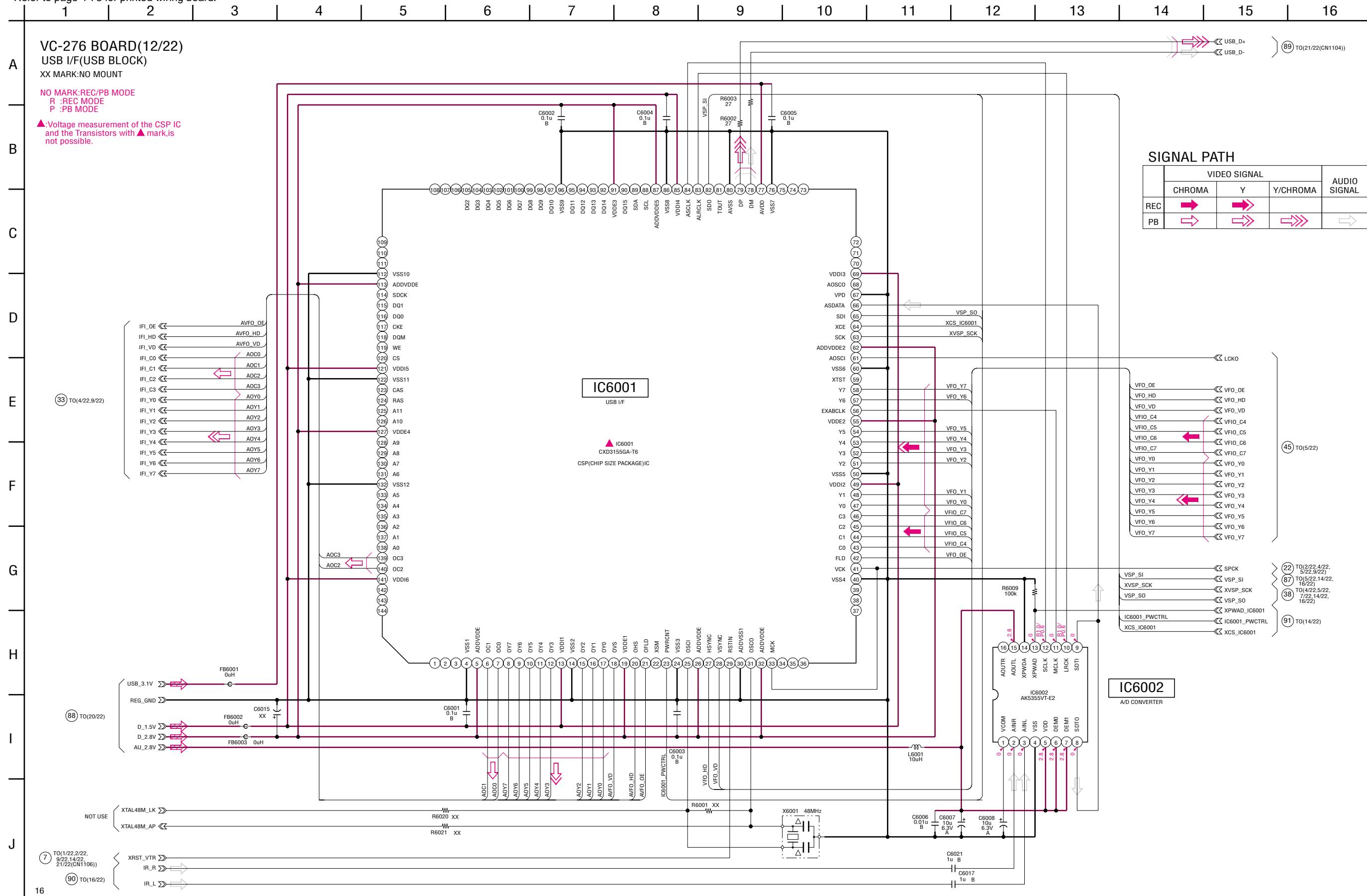
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-80 for waveforms.



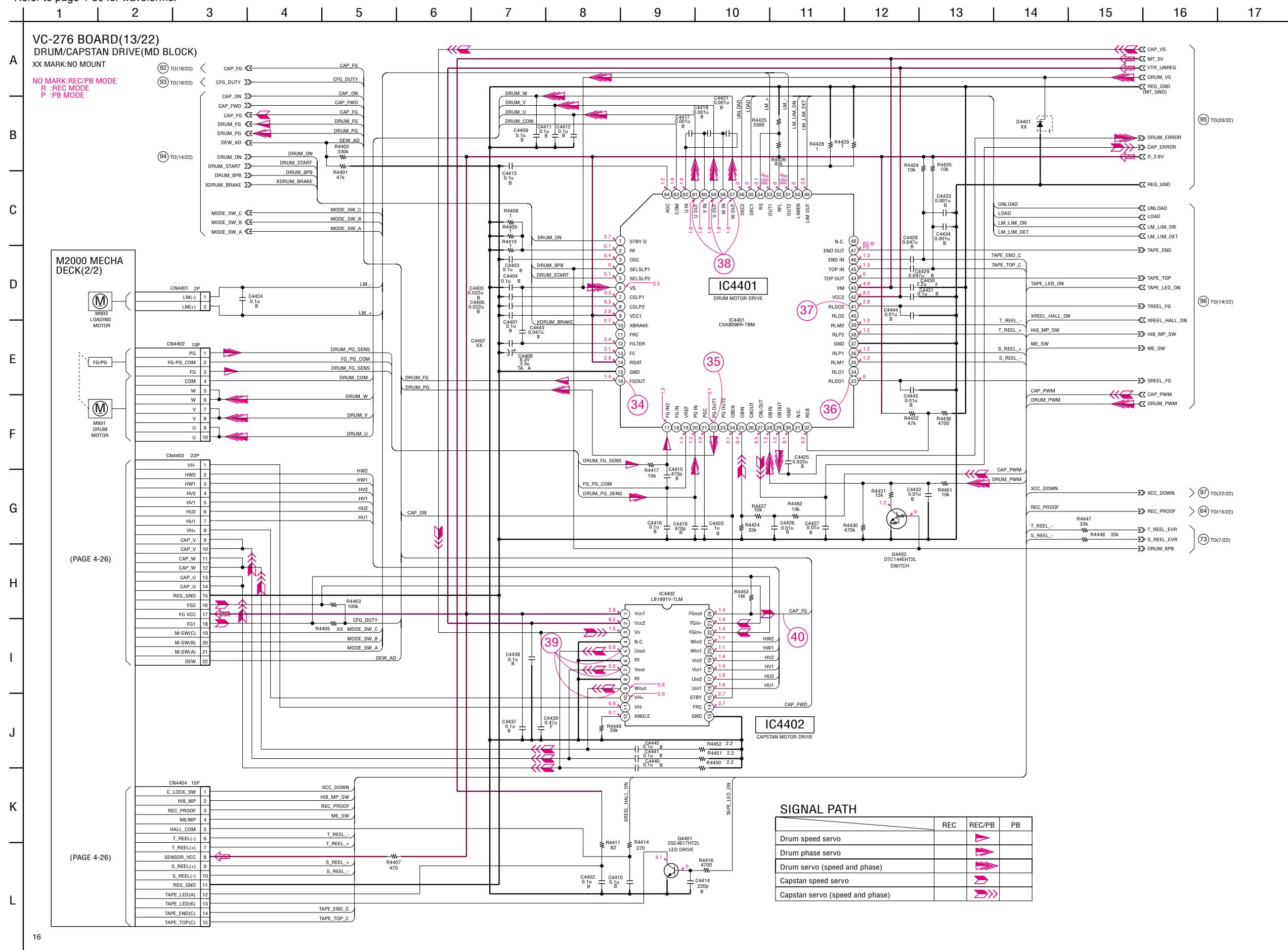
## For Schematic Diagram

• Refer to page 4-73 for printed wiring board.



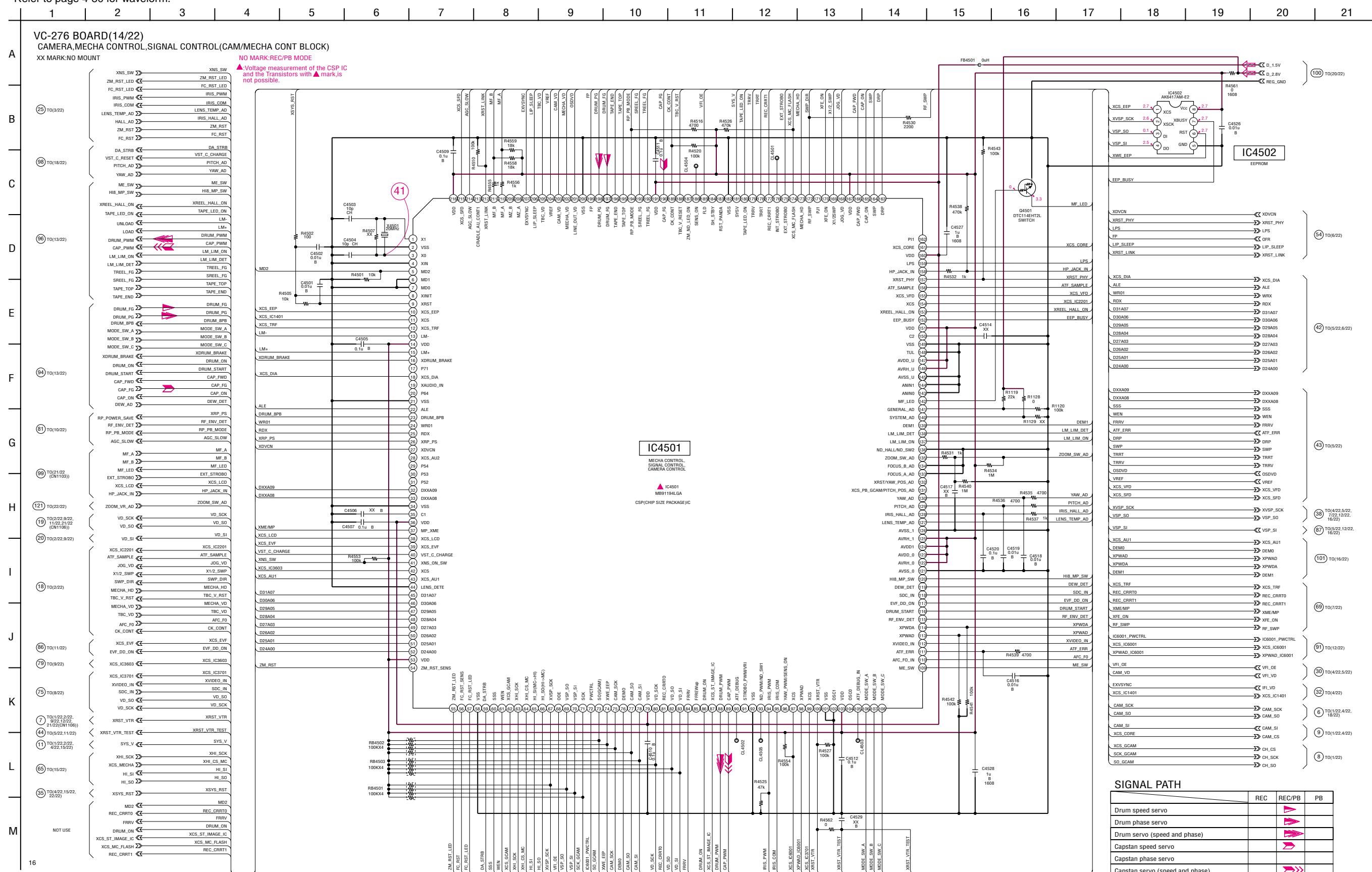
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-80 for waveforms.



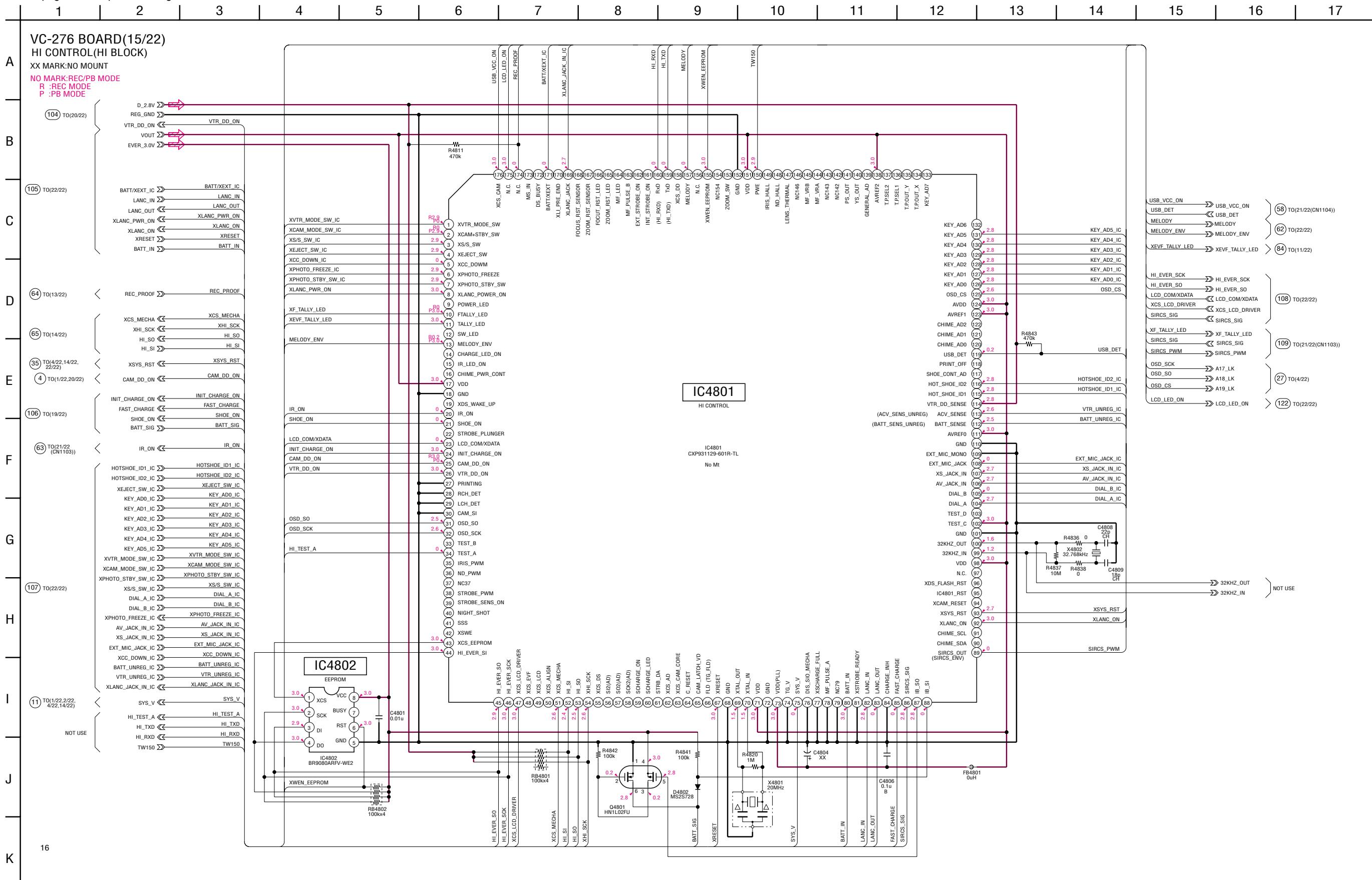
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
- Refer to page 4-80 for waveform.



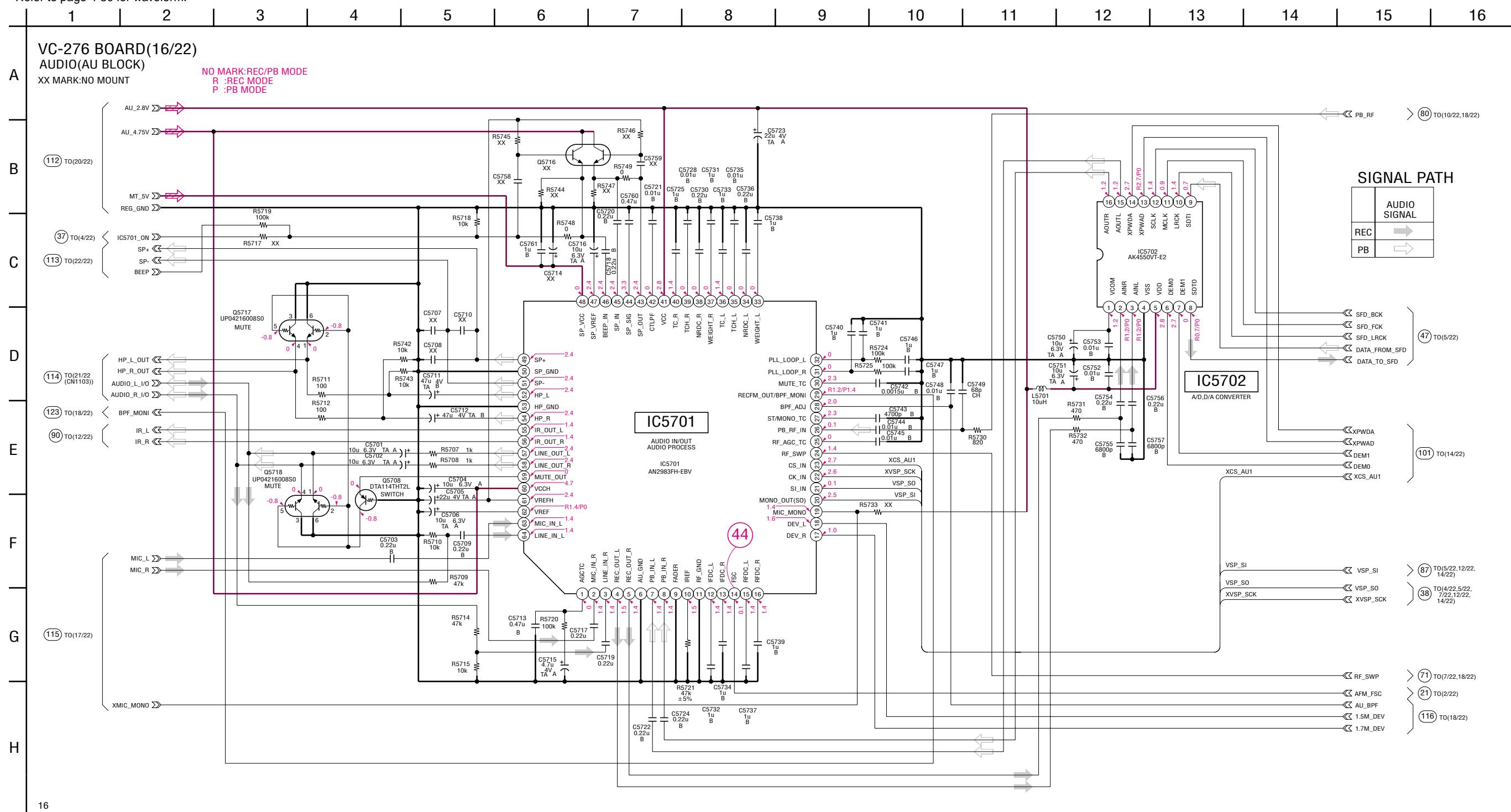
## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.



## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
  - Refer to page 4-80 for waveform.

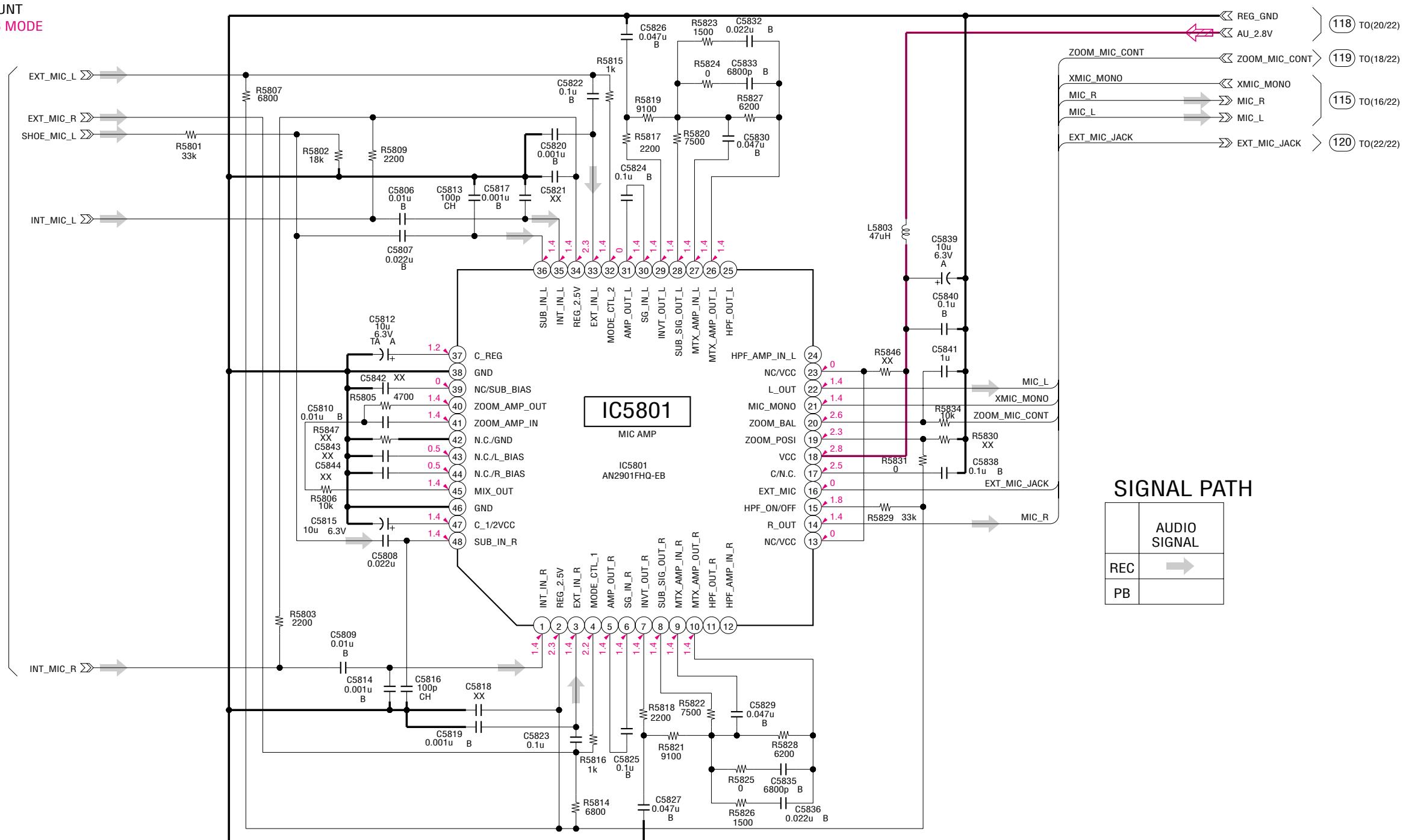


For Schematic Diagram  
• Refer to page 4-73 for printed wiring board.

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

### VC-276 BOARD(17/22) MIC AMP(MA BLOCK)

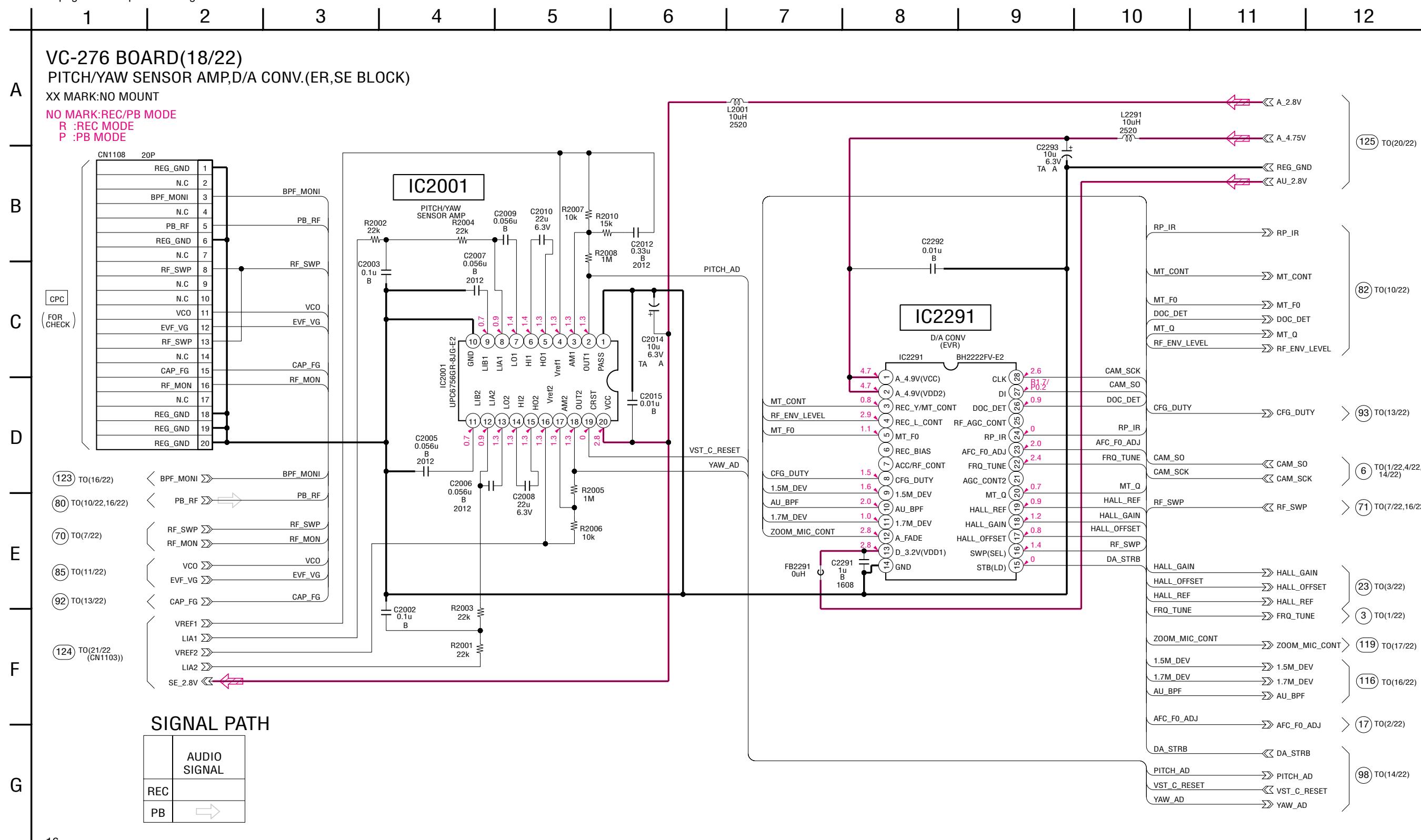
XX MARK: NO MOUNT  
NO MARK: REC/PB MODE



16

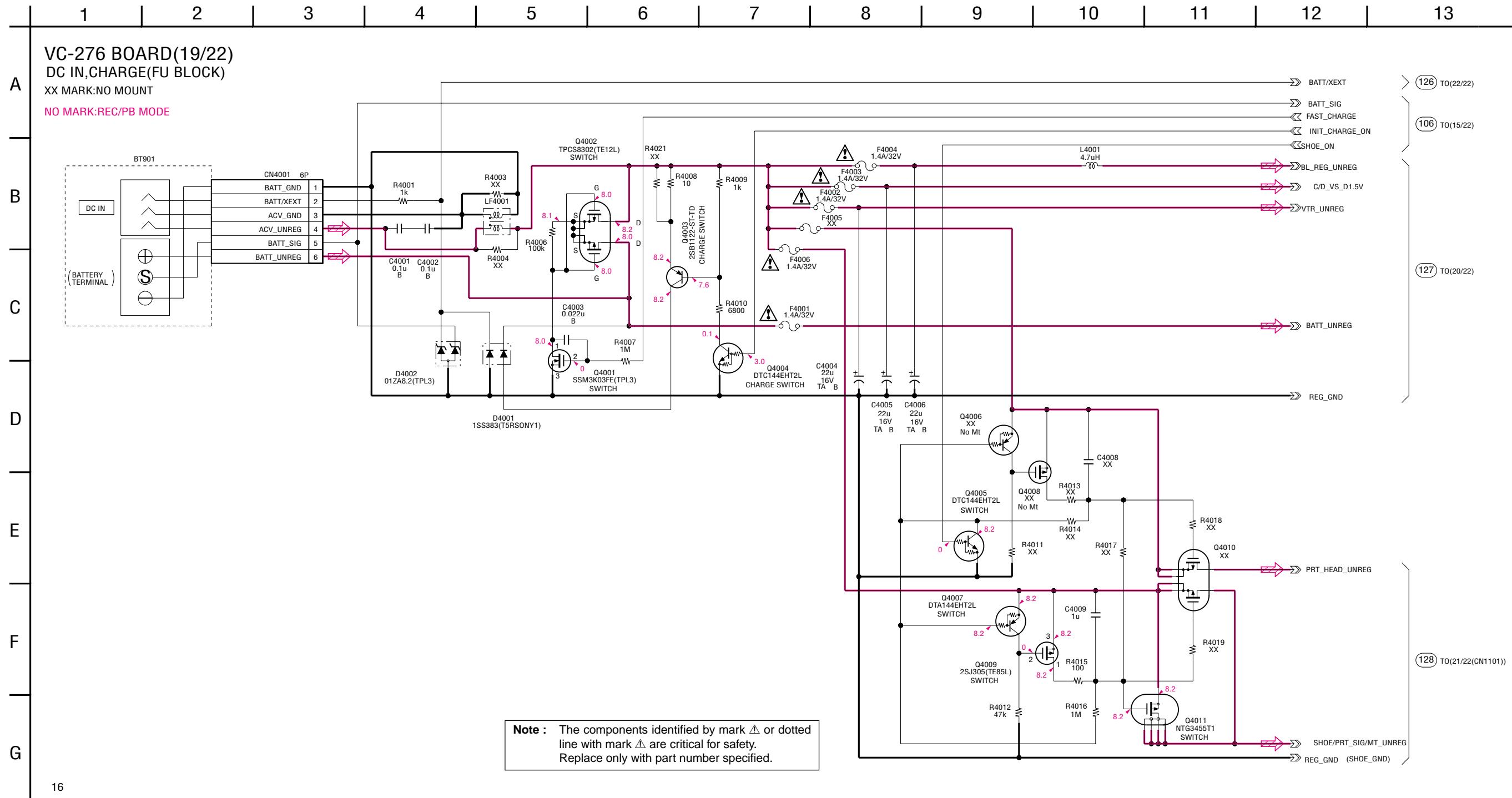
## For Schematic Diagram

• Refer to page 4-73 for printed wiring board.



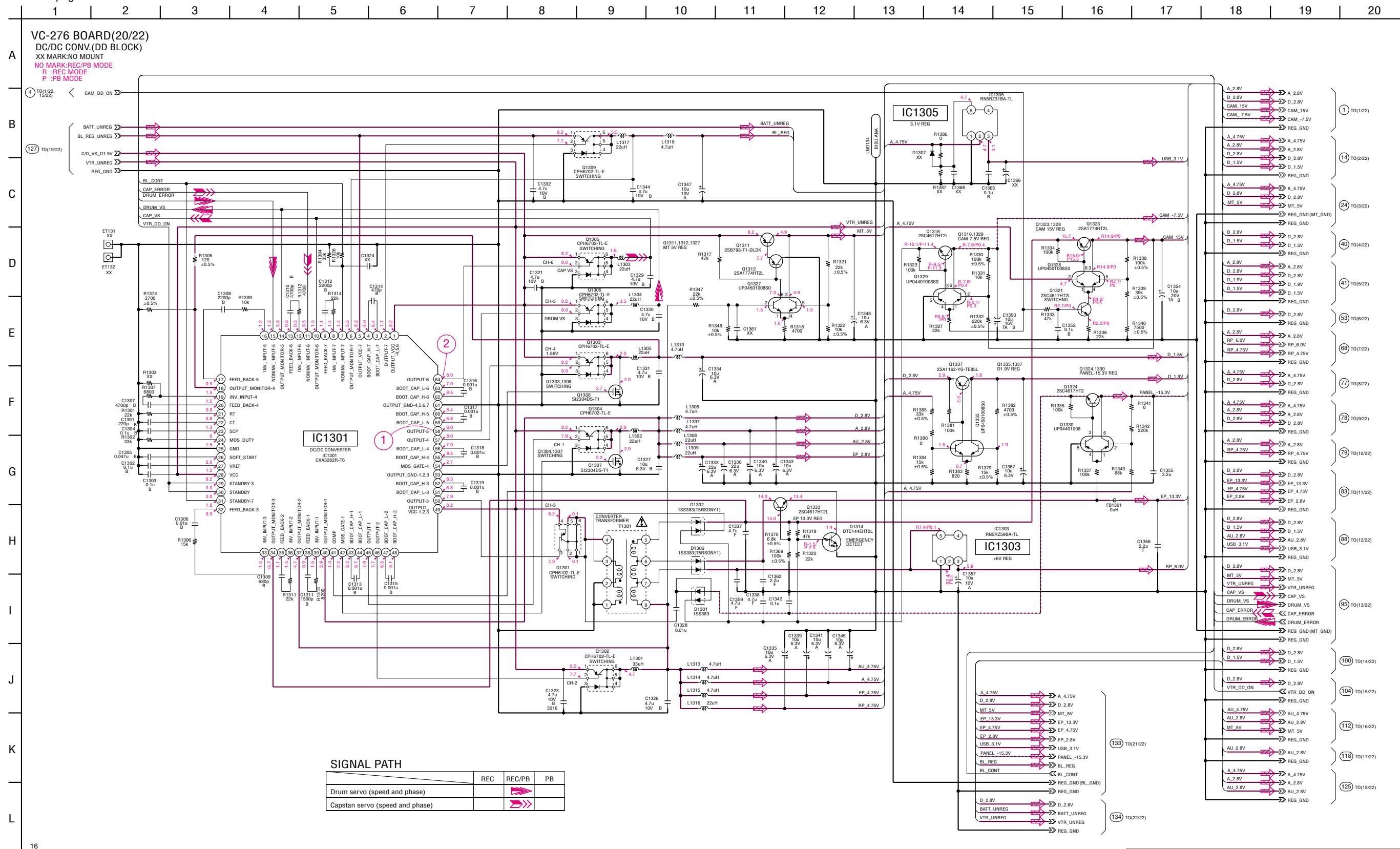
## For Schematic Diagram

• Refer to page 4-73 for printed wiring board.



## For Schematic Diagram

- Refer to page 4-73 for printed wiring board.
  - Refer to page 4-78 for waveforms.



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

## For Schematic Diagram

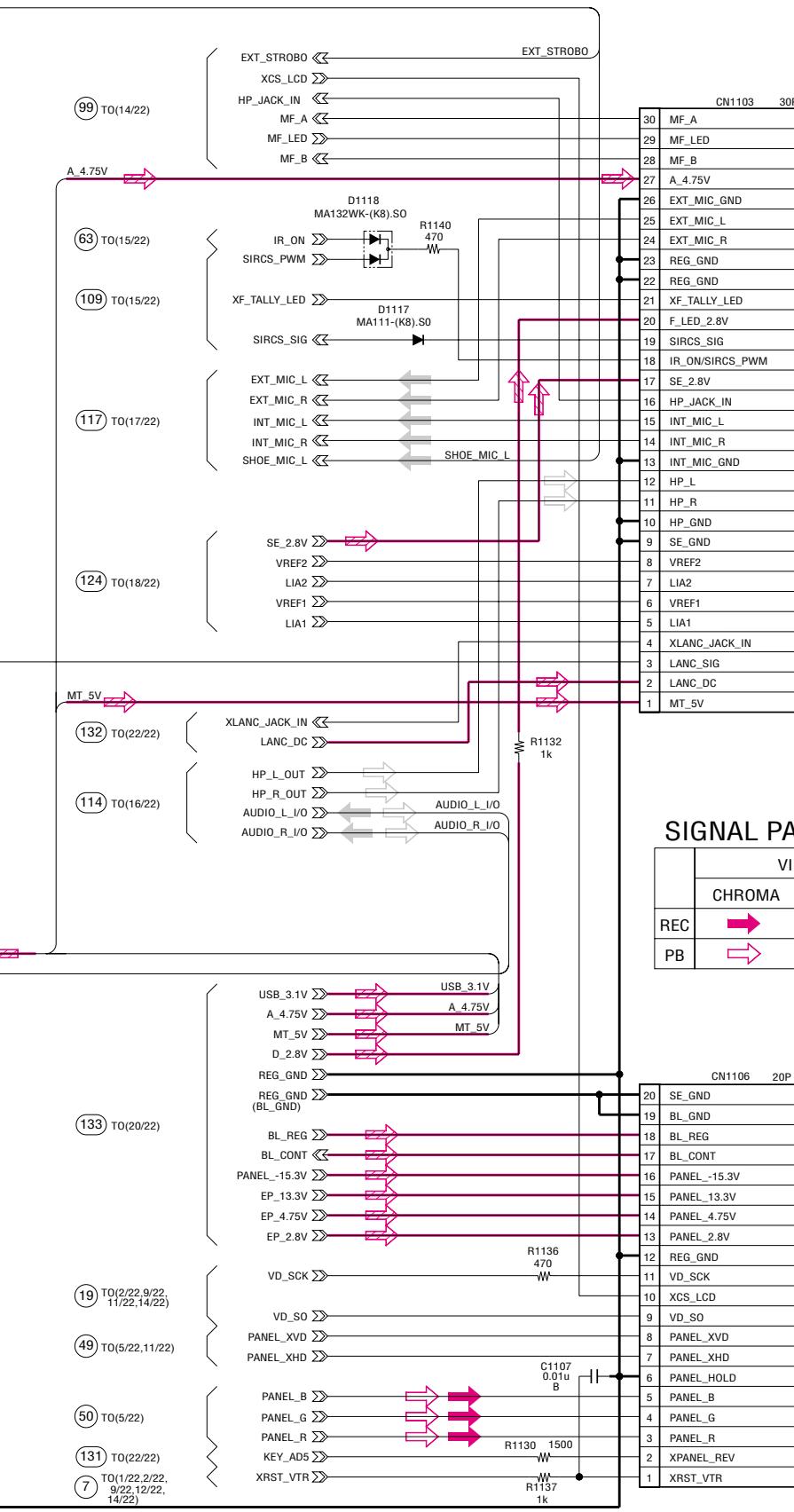
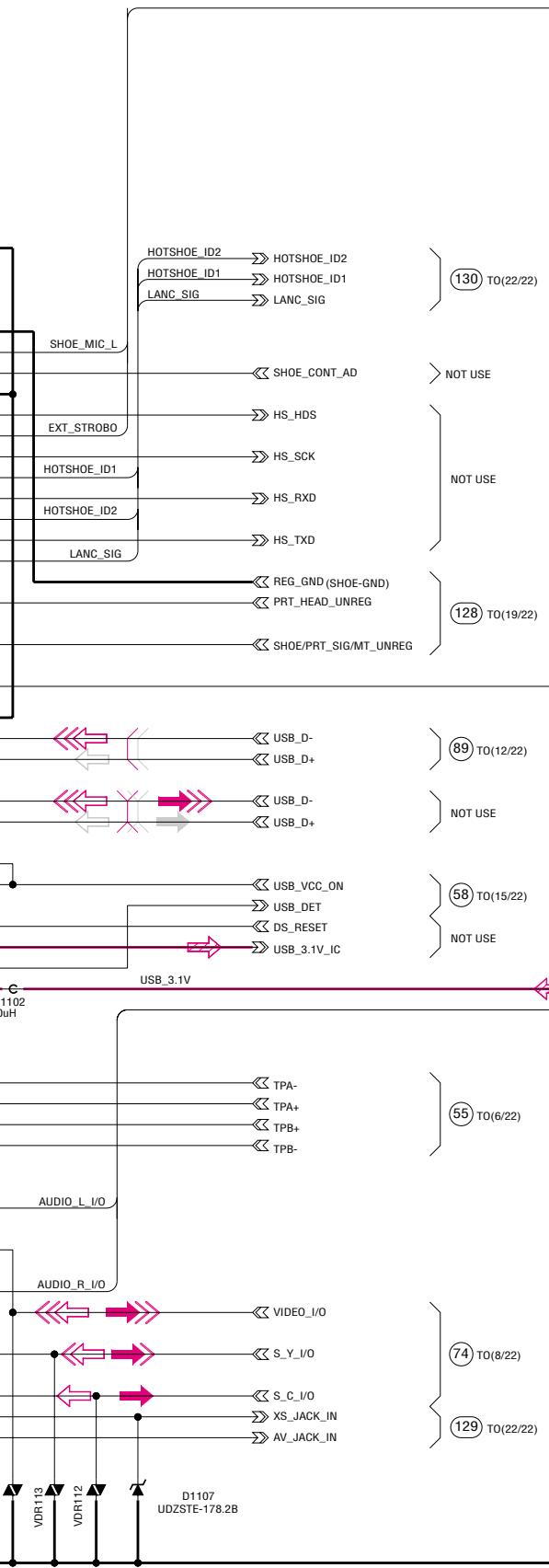
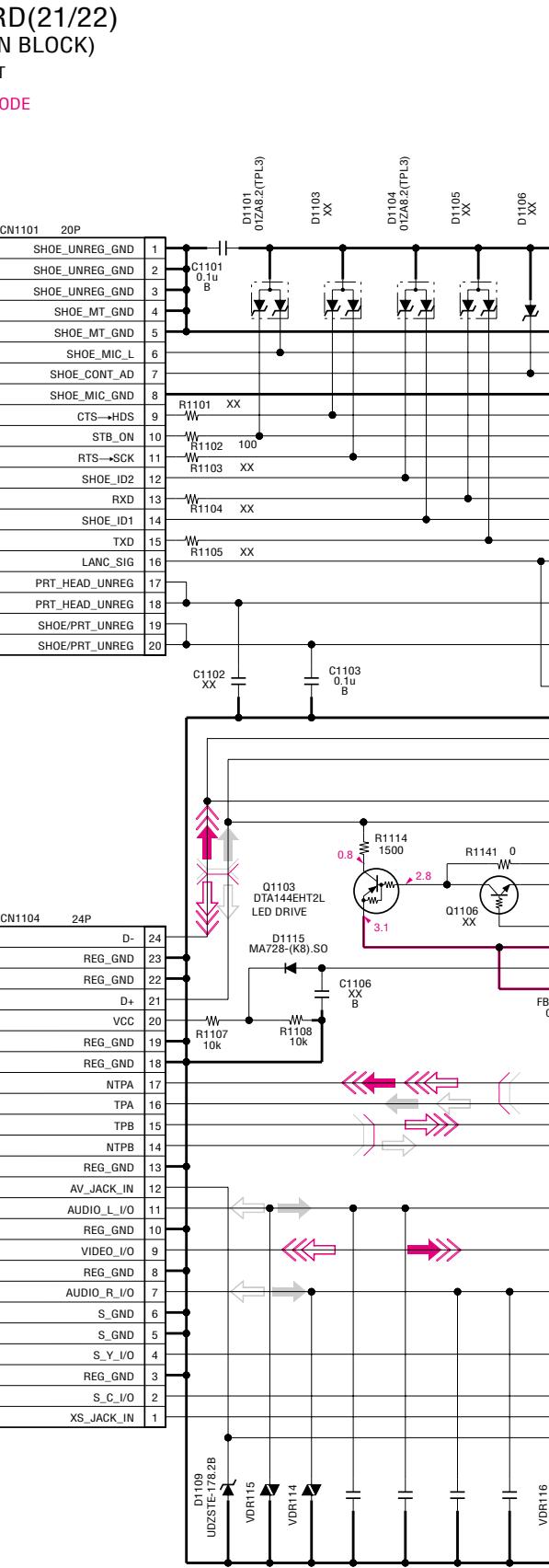
• Refer to page 4-73 for printed wiring board.

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

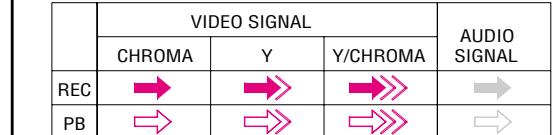
VC-276 BOARD(21/22)  
CONNECTOR(CN BLOCK)

XX MARK: NO MOUNT

NO MARK: REC/PB MODE

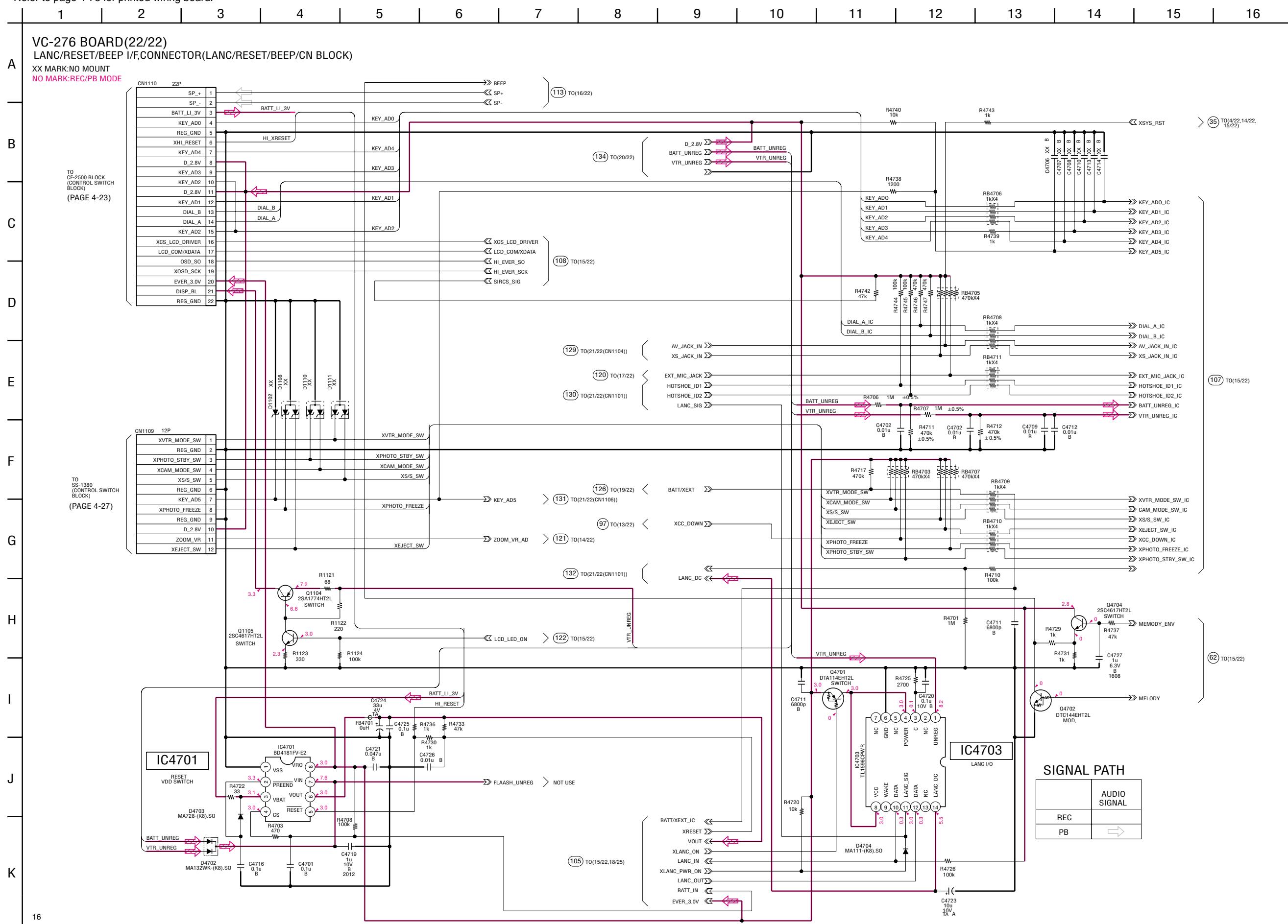
INTELLIGENT  
ACCESSORY  
SHOEFP-264  
(VC-SHOE)  
FLEXIBLETO  
FP-410  
FLEXIBLE  
(AV TERMINAL)  
(PAGE 4-27)TO  
SI-032 BOARD  
CN304  
THROUGH THE  
(FP-406/VC-SI)  
FLEXIBLE  
(PAGE 4-14)

## SIGNAL PATH

TD-156 BOARD(1/2)  
CN5701  
THROUGH THE  
(VP-076 HARNESS)  
(PAGE 4-19)

## For Schematic Diagram

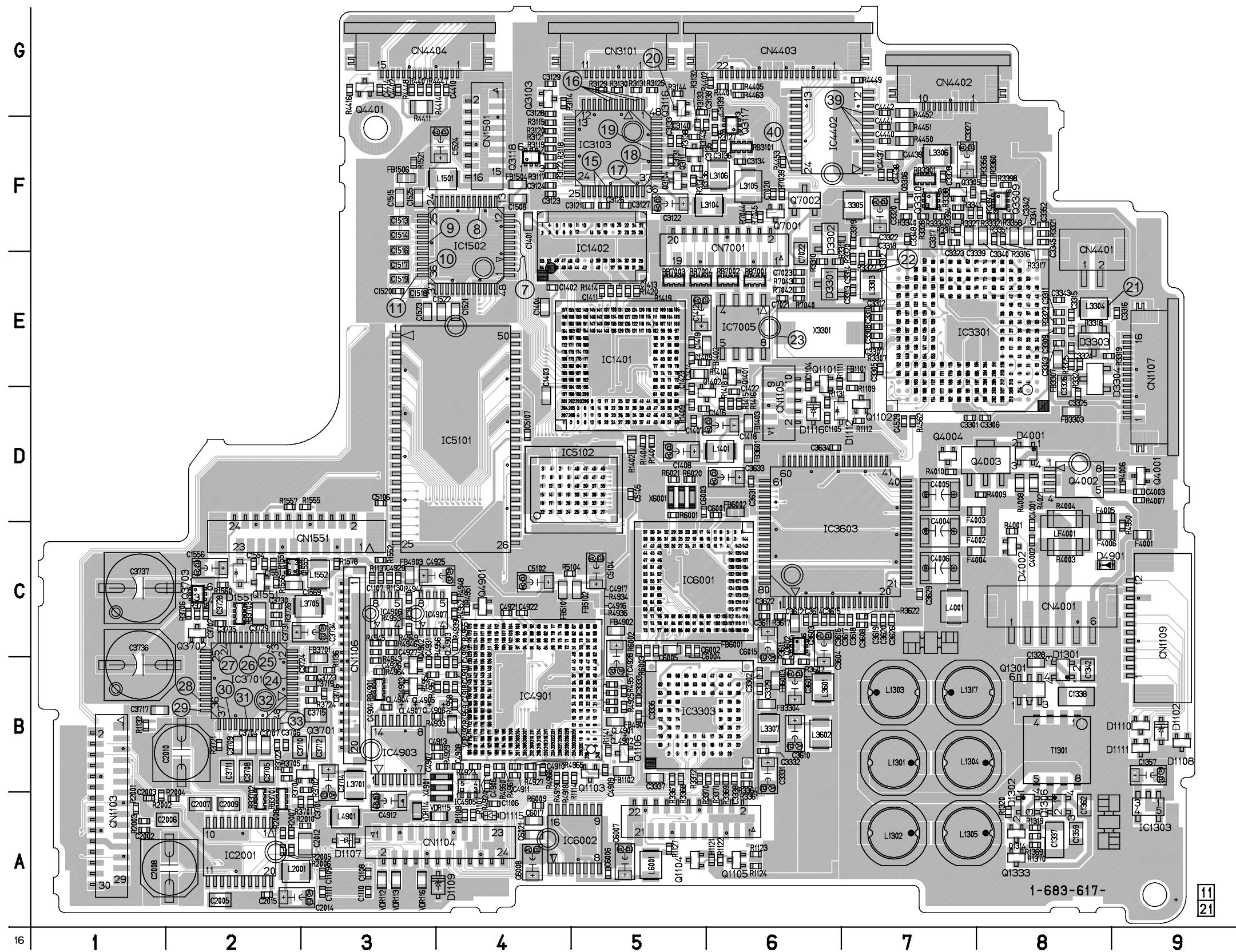
• Refer to page 4-73 for printed wiring board.



VC-276 (CAMERA PROCESS, Hi8/STD8 PB PROCESS, IRIS/FOCUS/ZOOM DRIVE, CAMERA/MPEG MOVIE/DIGITAL STILL, CHARACTER, AUDIO, DIGITAL STILL CONTROL, FLASH MEMORY, SDRAM, DV SIGNAL PROCESS, DV INTERFACE, DIGITAL8 PB RF AMP, VIDEO IN/OUT, VIDEO A/D CONVERTER, Hi8/STD8 PB RF AMP, EVF DRIVE, USB, DC IN, CHARGE, DC/DC CONVERTER, CONNECTOR, LANC/RESET/BEEP I/F) PRINTED WIRING BOARD

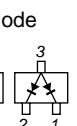
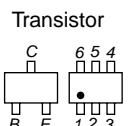
•  : Uses unleaded solder.

## VC-276 BOARD (SIDE A)



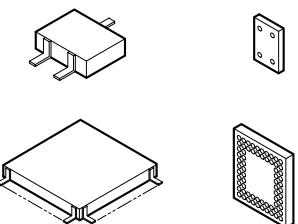
### For printed wiring board

- Refer to page 4-81 for parts location.
- This board is eight-layer print board. However, the patterns of layers two to seven have not been included in the diagram.
- Chip parts



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

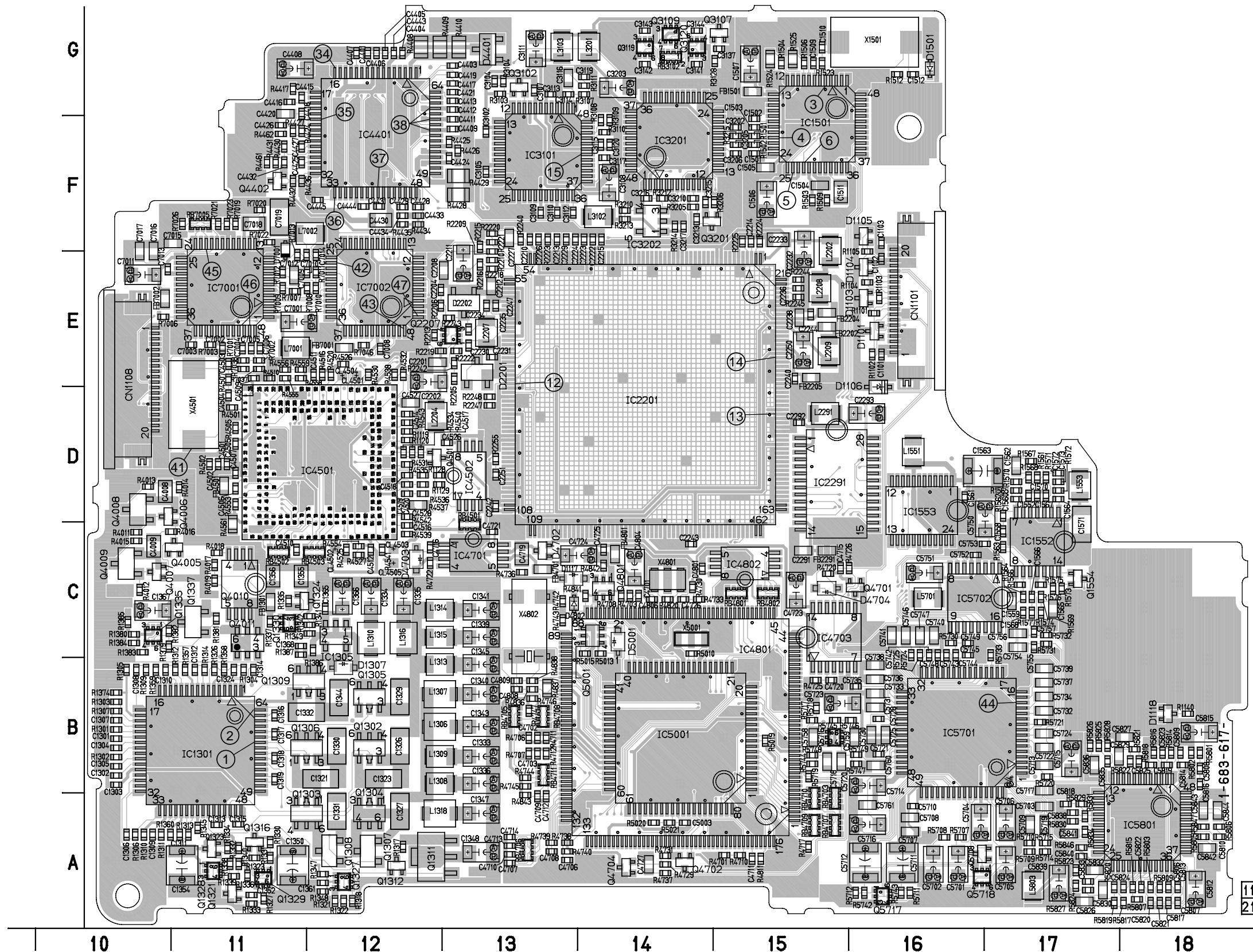
- Replacement of CSP (Chip Size Package) IC used in this set require a tool.  
CSP IC: IC1401, 1402, 2201, 3301, 3303, 4501, 4901, 5102, 6006



Conventional      CSP (chip size package)

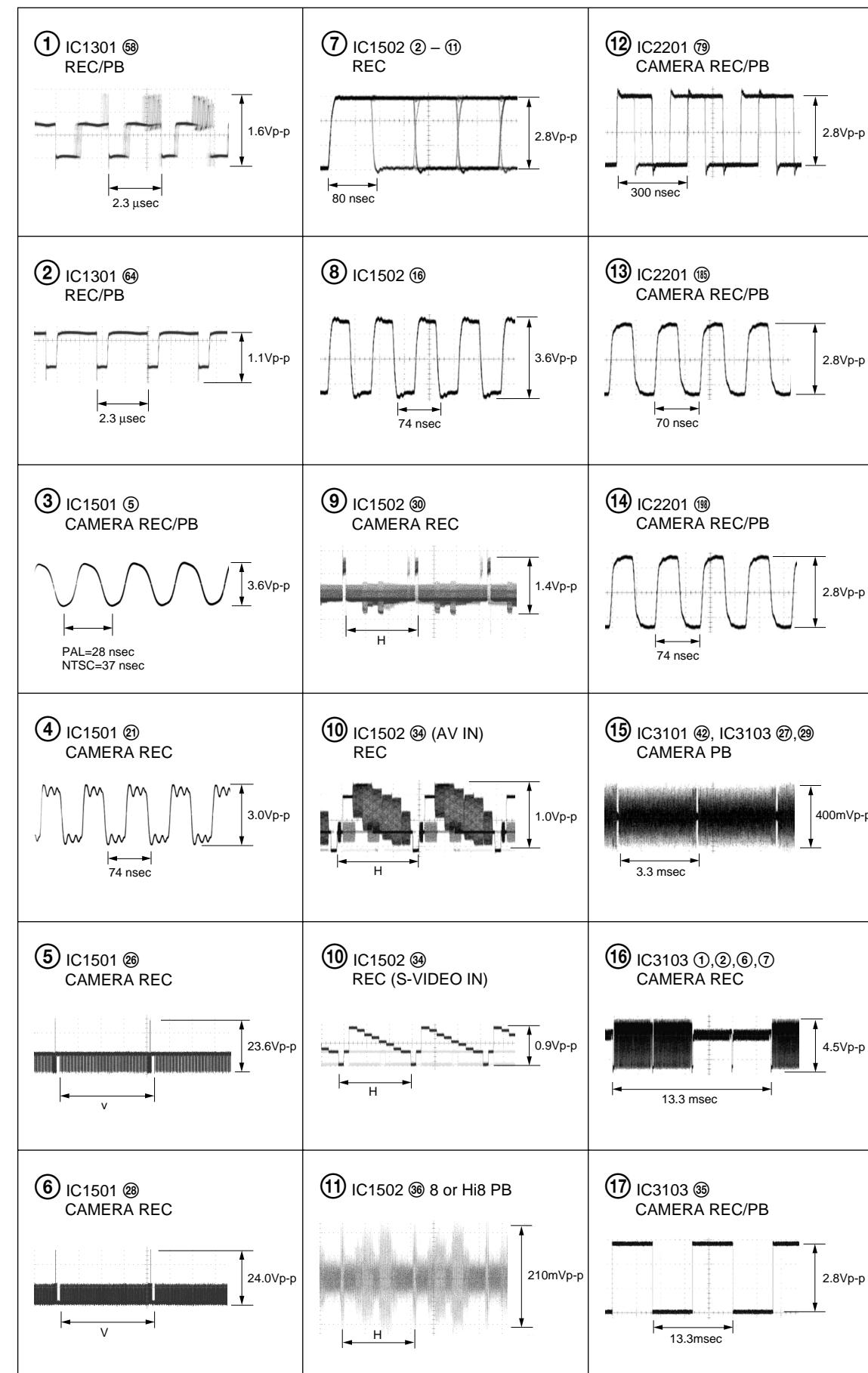
•  : Uses unleaded solder.

## VC-276 BOARD (SIDE B)

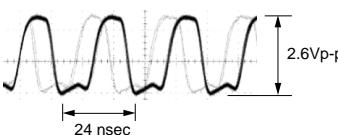
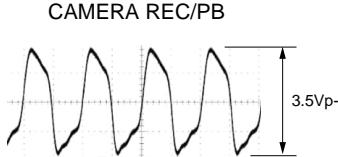
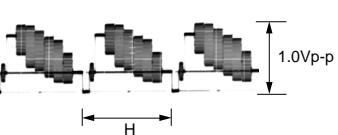
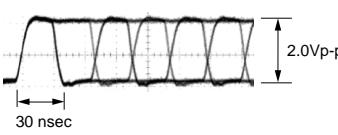
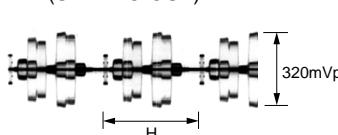
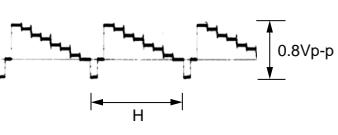
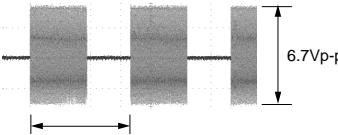
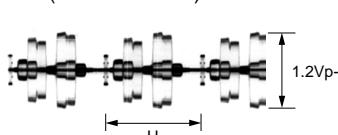
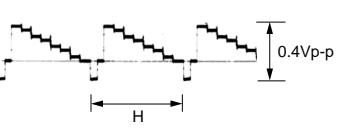
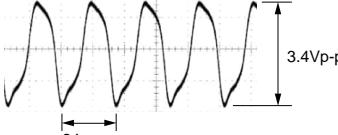
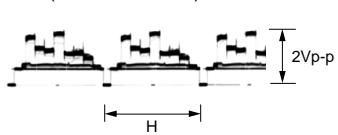
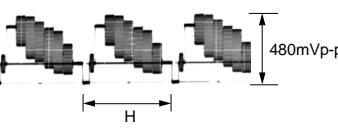
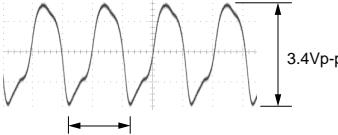
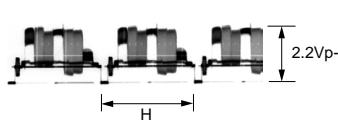
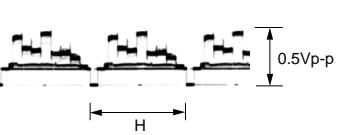
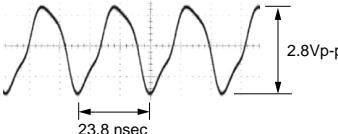
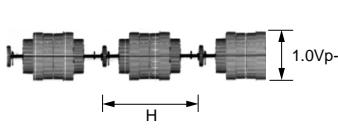
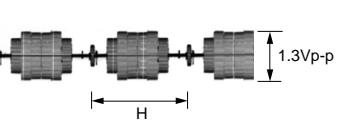


## 4-3. WAVEFORMS

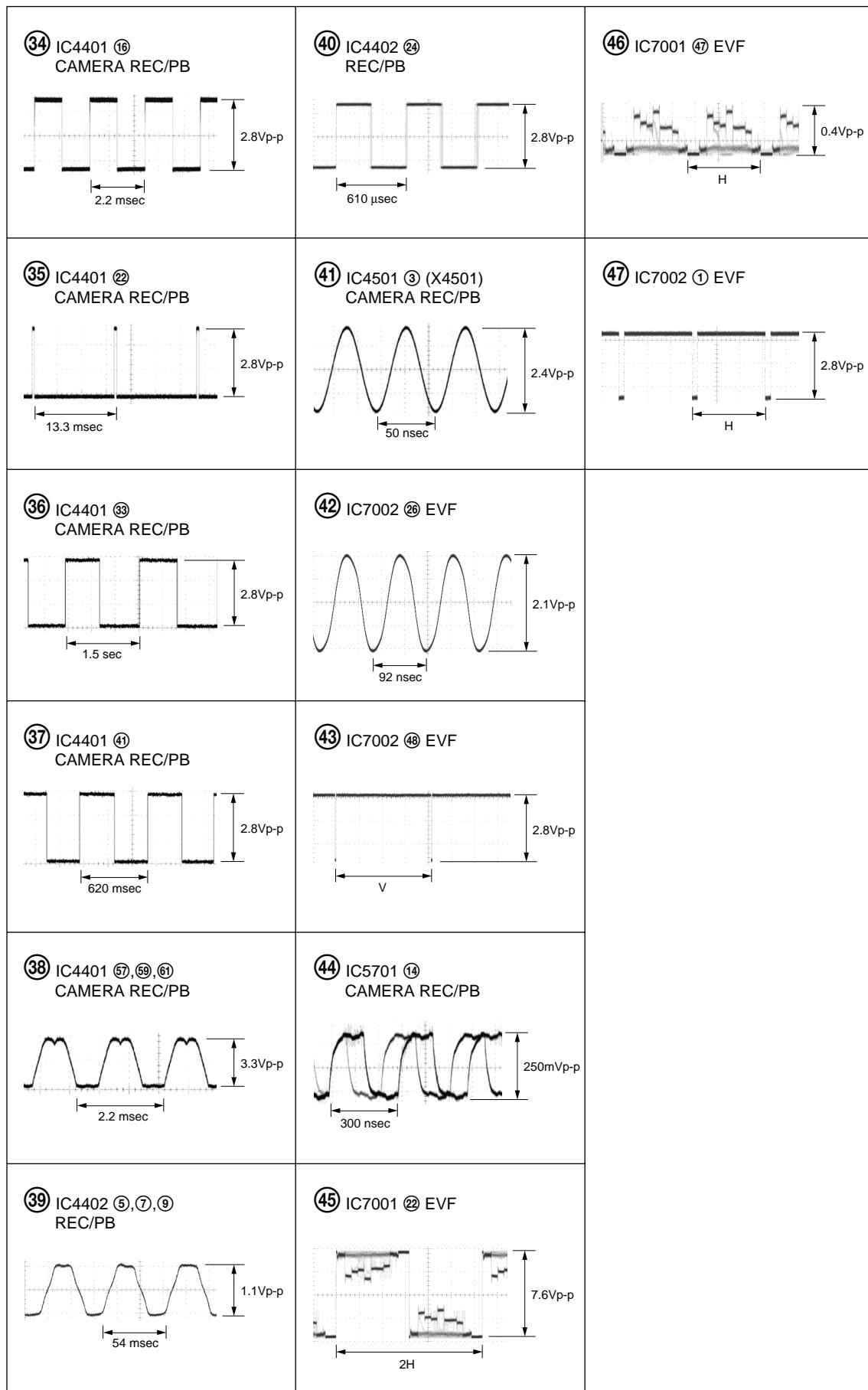
## VC-276 BOARD



## VC-276 BOARD

<p><b>(18) IC3103 ⑩</b> CAMERA REC</p>  <p>2.6Vp-p</p> <p>24 nsec</p>	<p><b>(23) IC3301 ⑯ (X3301)</b> CAMERA REC/PB</p>  <p>3.5Vp-p</p> <p>40.6 nsec</p>	<p><b>(29) IC3701 ⑯</b> LINE REC (AV IN)</p>  <p>1.0Vp-p</p> <p>H</p>
<p><b>(19) IC3103 ⑫</b> CAMERA REC</p>  <p>2.0Vp-p</p> <p>30 nsec</p>	<p><b>(24) IC3701 ⑦</b> CAMERA REC/PB (S-VIDEO OUT)</p>  <p>320mVp-p</p> <p>H</p>	<p><b>(29) IC3701 ⑯</b> LINE REC (S-VIDEO IN)</p>  <p>0.8Vp-p</p> <p>H</p>
<p><b>(20) Q3116 ⑩</b> REC</p>  <p>6.7Vp-p</p> <p>V</p>	<p><b>(25) IC3701 ⑭</b> CAMERA REC/PB (S-VIDEO OUT)</p>  <p>1.2Vp-p</p> <p>H</p>	<p><b>(30) IC3701 ⑯</b> LINE REC (S-Y IN)</p>  <p>0.4Vp-p</p> <p>H</p>
<p><b>(21) IC3301 ⑮ (L3304)</b> CAMERA REC</p>  <p>3.4Vp-p</p> <p>34 nsec</p>	<p><b>(26) IC3701 ⑮</b> CAMERA REC/PB (S-VIDEO OUT)</p>  <p>2Vp-p</p> <p>H</p>	<p><b>(31) IC3701 ⑫</b> LINE REC (AV IN)</p>  <p>480mVp-p</p> <p>H</p>
<p><b>(21) IC3301 ⑮ (L3304)</b> PB</p>  <p>3.4Vp-p</p> <p>41 nsec</p>	<p><b>(27) IC3701 ⑯</b> CAMERA REC/PB (AV OUT)</p>  <p>2.2Vp-p</p> <p>H</p>	<p><b>(32) IC3701 ⑯</b> CAMERA REC/PB (AV or S-VIDEO OUT)</p>  <p>0.5Vp-p</p> <p>H</p>
<p><b>(22) IC3301 ⑯ (L3303)</b> CAMERA REC/PB</p>  <p>2.8Vp-p</p> <p>23.8 nsec</p>	<p><b>(28) IC3701 ⑯</b> LINE REC (S-VIDEO IN)</p>  <p>1.0Vp-p</p> <p>H</p>	<p><b>(33) IC3701 ⑯</b> LINE REC (S-C IN)</p>  <p>1.3Vp-p</p> <p>H</p>

## VC-276 BOARD



## 4-4. MOUNTED PARTS LOCATION

no mark : side A  
 \* mark : side B

## VC-276 BOARD

* C1101 E-16	* C1502 F-15	* C2291 C-15	C3342 F-8	* C4429 F-12	* C5003 A-14	* C5829 B-18	* D1307 B-12
* C1102 E-16	* C1503 F-15	* C2292 D-15	C3343 E-8	* C4430 F-12	C5102 C-4	* C5830 A-17	* D1501 G-16
* C1103 F-16	* C1504 F-15	* C2293 D-16	C3345 F-8	* C4431 F-12	C5104 C-5	* C5832 A-17	D1551 C-2
C1104 E-6	* C1505 F-15	* C3102 F-13	C3348 F-7	* C4432 F-11	C5105 D-5	* C5833 A-17	* D2201 E-13
C1105 D-6	* C1506 F-15	* C3104 G-12	C3352 F-8	* C4433 F-12	C5106 D-3	* C5835 B-17	* D2202 E-13
C1106 A-4	* C1507 G-15	* C3105 F-13	C3601 B-6	* C4434 F-12	C5107 D-4	* C5836 B-17	D3301 E-6
C1107 C-3	* C1508 F-4	* C3107 G-12	C3603 C-6	* C4437 F-7	* C5701 A-16	* C5838 A-17	D3302 F-6
C1108 A-3	* C1509 G-15	* C3108 F-14	C3604 C-6	* C4438 F-7	* C5702 A-16	* C5839 A-17	D3303 E-8
C1109 A-3	* C1510 G-15	* C3109 F-13	C3608 C-7	* C4439 F-7	* C5703 A-17	* C5840 A-17	D3304 E-8
C1110 A-3	* C1511 F-15	* C3110 F-13	C3610 B-6	C4440 F-7	* C5704 A-16	* C5841 A-17	D4001 D-8
C1111 A-3	* C1512 G-16	* C3111 G-12	C3611 C-6	C4441 F-7	* C5705 A-17	* C5842 A-18	D4002 C-8
* C1301 B-10	C1513 F-3	* C3112 F-13	C3612 C-6	C4442 G-7	* C5706 A-17	* C5843 A-18	* D4401 G-12
* C1302 B-10	C1514 F-3	* C3113 G-12	C3614 C-6	* C4443 G-11	* C5707 A-16	* C5844 A-18	* D4702 C-13
* C1303 B-10	C1515 F-3	* C3114 G-12	C3615 C-6	* C4444 F-12	* C5708 A-16	C6001 D-6	* D4703 C-12
* C1304 B-10	C1516 F-3	* C3115 F-14	C3616 C-6	* C4445 F-12	* C5709 A-17	C6002 C-5	* D4704 C-15
* C1305 B-10	C1517 E-3	* C3116 G-12	C3617 C-7	* C4501 D-11	* C5710 A-16	C6003 D-5	* D4802 C-13
* C1306 A-10	C1518 E-3	* C3117 F-14	C3618 C-7	* C4502 D-11	* C5711 A-16	C6004 C-5	D4901 C-8
* C1307 B-10	C1519 E-3	* C3119 G-14	C3619 C-7	* C4503 E-11	* C5712 A-16	C6005 C-5	* D5001 C-14
* C1308 B-10	C1520 E-3	* C3120 F-14	C3620 C-7	* C4504 D-11	* C5713 B-17	C6006 A-5	* D7001 E-11
* C1309 A-10	C1521 E-4	C3121 F-5	C3622 C-6	* C4505 D-11	* C5714 B-16	C6007 A-5	
* C1310 B-10	C1522 E-4	C3122 F-5	C3626 C-7	* C4506 D-11	* C5715 B-17	C6008 A-4	F4001 C-9
* C1311 A-11	C1523 E-3	C3123 F-4	C3629 C-7	* C4507 D-11	* C5716 A-16	C6015 C-6	F4002 C-7
* C1312 B-11	C1524 F-4	C3124 F-4	C3631 D-6	* C4509 E-11	* C5717 B-17	C6017 A-4	F4003 D-7
* C1313 A-11	C1525 F-3	C3126 F-5	C3633 D-6	* C4510 C-11	* C5718 B-15	C6021 A-4	F4004 C-7
* C1314 B-11	C1551 C-2	C3127 F-5	C3634 D-6	* C4511 E-12	* C5719 A-17	* C7001 E-11	F4005 D-8
* C1315 A-11	* C1552 D-17	C3128 G-4	C3701 A-3	* C4512 C-12	* C5720 B-15	* C7002 E-11	F4006 C-8
* C1316 B-11	C1554 C-2	C3129 G-4	C3702 C-2	* C4514 D-12	* C5721 B-16	* C7003 E-11	
* C1317 B-11	C1556 C-2	C3131 F-5	C3704 B-2	* C4516 C-12	* C5722 B-17	* C7004 E-11	FB1101 E-7
* C1318 B-11	* C1558 C-17	C3133 F-5	C3705 B-2	* C4517 C-12	* C5723 B-15	* C7005 E-11	FB1102 B-5
* C1319 B-11	* C1559 C-17	C3134 F-6	C3706 B-2	* C4518 D-12	* C5724 B-17	* C7006 E-11	* FB1301 C-11
* C1321 B-12	* C1560 D-17	C3135 F-6	C3707 B-2	* C4519 D-12	* C5725 B-16	* C7008 E-12	FB1402 E-6
* C1323 B-12	* C1561 D-16	C3136 F-6	C3708 B-2	* C4520 D-12	* C5728 B-16	* C7009 E-11	FB1403 D-6
* C1324 B-11	* C1562 D-17	* C3137 G-15	C3709 B-2	* C4526 D-13	* C5730 B-16	* C7010 E-11	* FB1501 G-15
* C1326 B-12	* C1563 D-16	C3138 F-5	C3710 B-2	* C4527 D-12	* C5731 B-16	* C7011 E-10	FB1504 F-4
* C1327 A-12	* C1564 D-17	C3139 G-6	C3711 B-2	* C4528 D-12	* C5732 B-17	* C7012 E-11	FB1506 F-3
C1328 B-8	* C1565 C-17	C3140 F-5	C3712 B-3	* C4529 D-7	* C5733 B-16	* C7013 E-10	* FB2202 E-15
* C1329 B-12	* C1567 D-17	* C3141 G-14	C3714 B-3	* C4701 C-14	* C5734 B-17	* C7014 E-12	* FB2204 E-15
* C1330 B-12	* C1568 C-17	* C3142 G-14	C3715 B-3	* C4702 B-13	* C5735 B-16	* C7015 F-11	* FB2205 E-15
* C1331 A-12	C1569 C-2	* C3143 G-14	C3716 B-3	* C4703 B-13	* C5736 B-16	* C7016 F-10	* FB2291 C-15
* C1332 B-11	* C1570 D-17	* C3144 G-14	C3717 B-1	* C4706 A-13	* C5737 B-17	* C7017 F-10	FB3303 D-8
* C1333 B-13	* C1571 C-17	* C3202 F-15	C3719 B-3	* C4707 A-13	* C5738 B-16	* C7018 F-11	FB3304 B-6
* C1334 C-12	* C1572 D-17	* C3203 G-14	C3723 B-3	* C4708 A-13	* C5739 B-17	* C7019 F-11	FB3307 E-8
* C1335 C-12	* C1573 D-17	* C3205 F-15	C3724 B-3	* C4709 A-13	* C5740 C-16	C7020 F-6	FB3601 D-6
* C1336 B-13	C2002 A-1	* C3206 F-15	C3728 C-2	* C4710 A-13	* C5741 C-16	C7021 E-6	FB3701 B-3
C1337 A-8	C2003 A-1	* C3210 F-14	C3729 C-2	* C4711 A-15	* C5742 C-16	C7022 E-6	* FB4501 D-11
C1338 B-8	C2005 A-2	* C3213 F-14	C3730 C-2	* C4712 A-13	* C5743 C-16	C7023 E-6	* FB4701 C-13
* C1339 C-13	C2006 A-1	* C3215 F-14	C3731 C-2	* C4713 A-13	* C5744 C-16		* FB4801 C-14
* C1340 B-13	C2007 A-2	* C3216 F-14	C3734 C-3	* C4714 A-13	* C5745 C-16	* C1101 E-16	FB4901 B-5
* C1341 C-13	C2008 A-1	* C3217 F-14	C3735 C-2	* C4715 C-15	* C5746 C-16	CN1103 A-1	FB4902 C-5
C1342 B-8	C2009 A-2	C3301 D-7	C3736 B-1	* C4716 C-12	* C5747 C-16	CN1104 A-3	FB4903 C-3
* C1343 B-13	C2010 B-2	C3302 B-6	C3737 C-1	* C4719 C-13	* C5748 C-16	CN1105 D-6	FB5101 C-4
* C1344 B-12	C2012 A-3	C3303 E-8	C4001 C-8	* C4720 B-15	* C5749 C-16	CN1106 B-3	FB5102 C-5
* C1345 B-13	C2014 A-2	C3305 E-7	C4002 C-8	* C4721 C-13	* C5750 D-16	CN1107 E-9	FB6001 C-5
* C1347 A-13	C2015 A-2	C3306 D-8	C4003 D-9	* C4723 C-15	* C5751 C-16	* C1108 E-10	FB6002 D-6
* C1348 A-13	* C2201 E-12	C3307 E-7	C4004 C-7	* C4724 C-14	* C5752 C-16	CN1109 C-9	FB6003 B-6
* C1350 A-11	* C2202 E-12	C3308 E-7	C4005 D-7	* C4725 C-14	* C5753 C-16	CN1110 A-5	* FB7001 E-12
* C1352 A-11	* C2204 E-12	C3309 E-8	C4006 C-7	* C4726 C-14	* C5754 C-17	CN1501 F-4	* FB7002 E-10
* C1354 A-11	* C2208 E-13	C3310 E-7	* C4008 D-10	* C4727 A-14	* C5755 C-17	CN1551 C-3	
* C1355 C-11	* C2210 F-13	C3311 E-8	* C4009 C-10	* C4801 C-14	* C5756 C-17	CN3101 G-5	* IC1301 B-11
* C1356 C-11	* C2211 E-13	C3312 E-7	* C4401 G-11	* C4804 C-14	* C5757 C-17	CN4001 C-8	IC1303 A-9
C1357 B-9	* C2212 E-13	C3313 E-7	C4402 G-3	* C4806 C-14	* C5758 B-15	CN4401 E-8	* IC1305 C-12
C1359 A-8	* C2213 F-13	C3314 E-7	* C4403 G-12	* C4808 B-13	* C5759 B-16	CN4402 G-7	IC1401 E-5
* C1361 A-12	* C2214 F-15	C3315 E-8	* C4404 G-11	* C4809 B-13	* C5760 B-16	CN4403 G-6	IC1402 F-5
C1362 A-8	* C2215 F-14	C3316 E-9	* C4405 G-11	C4904 B-3	* C5761 A-16	CN4404 G-3	* IC1501 F-15
* C1365 C-12	* C2222 F-14	C3317 F-7	* C4406 G-11	C4906 B-4	* C5806 A-18	CN7001 F-6	IC1502 F-4
* C1366 C-12	* C2223 F-14	C3318 F-7	* C4407 G-11	C4907 B-4	* C5807 A-18		* IC1552 C-17
* C1367 C-10	* C2224 F-13	C3319 F-7	* C4408 G-10	C4908 B-4	* C5808 B-18	* D1101 E-16	* IC1553 D-16
* C1368 C-11	* C2226 F-13	C3320 F-7	* C4409 F-13	C4909 B-5	* C5809 B-18	D1102 B-9	IC2001 A-2
C1401 F-4	* C2227 F-13	C3322 F-7	C4410 G-4	C4910 B-4	* C5810 A-18	* D1103 E-16	* IC2201 D-14
C1402 E-4	* C2229 F-13	C3323 F-7	* C4411 F-13	C4911 B-4	* C5812 A-18	* D1104 E-16	* IC2291 D-15
C1403 D-4	* C2230 E-13	C3324 E-8	* C4412 G-12	C4912 A-3	* C5813 A-18	* D1105 F-16	* IC3101 F-13
C1404 E-4	* C2231 E-13	C3325 D-8	* C4413 G-12	C4913 B-4	* C5814 B-18	* D1106 E-16	IC3103 F-5
C1407 D-5	* C2232 E-15	C3326 E-8	* C4414 G-3	C4916 B-5	* C5815 B-18	D1107 A-3	* IC3201 F-14
C1408 D-5	* C2233 F-15	C3327 F-7	* C4415 G-10	C4917 B-5	* C5816 B-18	D1108 B-9	* IC3202 F-14
C1409 E-5	* C2234 E-13	C3328 F-7	* C4416 G-10	C4918 B-4	* C5817 A-18	D1109 A-4	IC3301 E-7
C1411 E-5	* C2235 E-13	C3329 B-6	* C4417 G-12	C4919 B-4	* C5818 A-17	D1110 B-9	IC3303 B-5
C1412 E-5	* C2236 E-15	C3331 B-6	* C4418 G-10	C4921 C-4	* C5819 B-18	D1111 B-9	IC3603 C-6
C1413 E-5	* C2238 E-15	C3332 B-6	* C4419 G-12	C4922 C-4	* C5820 A-18	D1112 D-7	IC3701 B-2
C1414 E-5	* C2240 E-15	C3333 B-5	* C4420 G-10	C4925 C-3	* C5821 A-18	D1115 A-4	* IC4401 F-12
C1416 D-5	* C2242 D-13	C3335 B-5	* C4421 G-12	C4926 B-3	* C5822 A-18	D1116 D-6	IC4402 F-6
C1418 D-6	* C2243 C-14	C3337 B-5	* C4424 F-13	C4927 C-3	* C5823 B-18	* D1117 C-13	* IC4501 D-12
C1419 E-5	* C2244 E-15	C3338 B-6	* C4425 F-11	C4928 B-5	* C5824 A-18	* D1118 B-18	* IC4502 D-13
C1422 D-6	* C2247 E-13	C3339 F-7	* C4426 F-11	C4929 C-3	* C5825 B-18	D1301 B-8	* IC4701 C-13
C1423 D-5	* C2250 E-15	C3340 F-8	* C4427 F-11	C4930 B-4	* C5826 A-17	D1302 A-8	* IC4703 C-15
* C1501 F-15	* C2251 D-13	C3341 F-8	* C4428 F-12	C4931 B-3	* C5827 B-18	D1306 A-8	* IC4801 B-14

— Continued on next page —

no mark : side A

\* mark : side B

## VC-276 BOARD

* IC4802 C-15	* Q1309 B-11	R1123 A-6	R1521 F-3	R3138 F-5	* R4410 G-12	* R4747 B-13	* R5816 B-18	VDR492 B-4
IC4901 B-4	* Q1311 A-12	R1124 A-6	* R1523 G-15	R3143 F-5	R4411 G-3	* R4811 A-15	* R5817 A-18	
IC4903 B-3	* Q1312 A-12	R1127 A-5	* R1524 G-15	R3144 G-5	R4414 G-4	* R4820 C-14	* R5818 B-18	* X1501 G-16
IC4905 B-4	Q1314 A-8	* R1128 D-12	* R1525 G-15	* R3205 F-14	R4416 G-3	* R4836 B-13	* R5819 A-17	X3301 E-6
IC4906 C-3	* Q1316 A-11	* R1129 D-12	R1551 C-2	* R3206 F-15	* R4417 G-10	* R4837 B-13	* R5820 A-17	* X4501 D-11
IC4907 C-3	* Q1321 A-11	R1130 C-3	R1552 C-3	* R3210 F-14	* R4424 F-11	* R4838 B-13	* R5821 B-18	* X4801 C-14
* IC5001 B-14	* Q1323 A-11	R1131 D-6	R1555 D-3	* R3212 F-14	* R4425 F-13	* R4841 C-13	* R5822 B-18	* X4802 C-13
IC5101 D-4	* Q1324 C-11	R1132 B-1	R1556 C-2	* R3213 F-14	* R4426 F-13	* R4842 C-14	* R5823 A-17	X4901 B-4
IC5102 D-5	* Q1327 A-12	R1136 B-3	R1557 D-2	* R3214 F-14	* R4427 F-11	* R4843 A-13	* R5824 A-17	* X5001 C-14
* IC5701 B-16	* Q1328 A-11	R1137 C-3	R1560 C-2	* R3215 F-15	* R4428 F-13	R4918 B-4	* R5825 B-17	
* IC5702 C-16	* Q1329 A-11	* R1140 B-18	* R1561 D-17	R3307 E-7	* R4429 F-13	R4919 B-4	* R5826 B-17	
* IC5801 A-18	* Q1330 C-11	R1141 B-5	* R1562 D-17	R3310 E-6	* R4430 F-11	R4923 B-4	* R5827 A-17	
IC6001 C-5	Q1333 A-8	* R1301 B-10	* R1563 C-17	R3311 E-6	* R4431 F-11	R4924 B-4	* R5828 B-17	
IC6002 A-5	* Q1335 C-10	* R1302 B-10	* R1564 C-17	R3312 E-7	* R4432 F-11	R4925 B-5	* R5829 A-17	
* IC7001 E-11	* Q1337 C-11	* R1303 B-10	* R1565 D-17	R3315 F-7	* R4434 F-12	R4927 B-4	* R5830 A-17	
* IC7002 E-12	Q1401 E-6	* R1304 B-11	* R1566 C-17	R3316 F-8	* R4435 F-12	R4929 B-4	* R5831 A-17	
IC7005 E-6	Q1402 D-5	* R1305 B-10	* R1567 D-17	R3317 F-8	* R4436 F-11	R4933 B-4	* R5834 A-17	
	Q1551 C-2	* R1306 A-10	* R1568 D-17	R3318 E-8	R4447 G-3	R4934 B-5	* R5846 A-17	
L1301 B-7	* Q1554 C-17	* R1307 B-10	* R1569 C-17	R3319 E-8	R4448 G-3	R4936 B-5	* R5847 A-18	
L1302 A-7	Q1555 C-2	* R1309 B-10	* R1570 D-17	R3320 E-7	R4449 G-7	R4939 C-4	R6001 D-5	
L1303 B-7	* Q2207 E-13	* R1310 A-10	* R1571 D-17	R3321 F-8	R4450 F-7	R4943 C-3	R6002 C-5	
L1304 B-7	* Q1302 G-12	* R1311 A-10	* R1572 D-17	R3322 E-7	R4451 F-7	R4944 C-3	R6003 C-5	
L1305 A-7	Q1303 G-4	* R1312 B-11	* R1573 C-17	R3323 E-8	R4452 G-7	R4945 C-3	R6009 A-4	
* L1306 B-12	Q1304 F-5	* R1313 A-11	* R1574 C-17	R3324 E-8	R4453 F-6	R4946 C-3	R6020 D-5	
* L1307 B-12	* Q1307 G-15	* R1314 B-11	* R1575 C-17	R3325 E-8	* R4461 F-11	R4948 C-4	R6021 D-5	
* L1308 B-12	* Q1309 G-14	* R1317 A-12	* R1576 C-17	R3327 F-7	* R4462 F-11	R4949 C-3	* R7001 E-11	
* L1309 B-12	Q1311 F-5	* R1318 A-12	* R1577 C-17	R3328 F-7	R4463 G-6	R4950 C-9	* R7002 E-11	
* L1310 C-12	Q1316 G-5	R1319 A-8	R1578 C-3	R3332 F-8	* R4501 D-11	R4951 C-4	* R7003 E-11	
* L1313 B-12	Q1317 F-6	R1320 A-8	R2001 A-1	R3334 F-7	* R4502 D-11	R4952 C-4	* R7006 E-10	
* L1314 C-12	Q1318 F-4	* R1321 A-12	R2002 A-1	R3338 F-7	* R4505 D-11	R4953 C-3	* R7007 E-11	
* L1315 C-12	* Q1319 G-14	* R1322 A-12	R2003 A-1	R3340 F-7	* R4507 E-11	R4954 B-3	* R7008 E-11	
* L1316 C-12	* Q1320 G-14	* R1323 A-11	R2004 A-2	R3341 F-7	* R4510 E-11	R4955 B-4	* R7009 E-11	
L1317 B-7	* Q3201 F-15	* R1326 B-11	R2005 A-2	R3351 F-8	* R4516 E-12	R4956 B-4	* R7010 E-12	
* L1318 A-12	Q3305 F-7	* R1327 A-11	R2006 A-2	R3356 F-8	* R4520 E-12	R4957 B-5	* R7011 E-12	
L1401 D-6	Q3306 F-7	* R1330 A-11	R2007 A-2	R3358 F-8	* R4525 C-12	R4958 B-4	* R7012 E-11	
L1501 F-4	Q3309 F-8	* R1331 A-11	R2008 A-2	R3360 F-8	* R4526 E-12	R4959 B-4	* R7013 E-11	
* L1551 D-16	Q3310 F-7	* R1332 A-11	R2010 A-3	R3361 B-6	* R4527 C-12	R4960 B-4	* R7019 F-11	
L1552 C-3	Q3602 C-6	* R1333 A-11	* R2205 E-13	R3364 B-6	* R4530 E-12	R4961 B-4	* R7020 F-11	
* L1553 D-17	Q3701 B-3	* R1334 A-11	* R2206 E-12	R3367 B-5	* R4531 D-12	R4964 B-3	* R7021 F-11	
L2001 A-2	Q3702 C-2	* R1335 C-11	* R2209 E-13	R3368 B-5	* R4532 E-12	R4965 B-4	* R7022 F-11	
* L2202 E-15	Q3703 C-2	* R1336 A-11	* R2210 E-13	R3369 B-6	* R4534 D-12	R4966 B-4	* R7023 F-11	
* L2204 D-12	Q4001 D-9	* R1337 C-11	* R2213 E-12	R3370 B-6	* R4535 D-12	R4967 B-4	* R7026 F-11	
* L2207 E-13	Q4002 D-8	* R1338 A-11	* R2215 F-13	R3371 B-6	* R4536 D-12	* R5010 C-14	* R7037 E-11	
* L2208 E-15	Q4003 D-8	* R1339 A-11	* R2216 E-13	R3372 B-5	* R4537 D-12	* R5013 C-14	* R7038 E-11	
* L2209 E-15	Q4004 D-7	* R1340 A-11	* R2218 E-13	R3394 F-7	* R4538 E-12	* R5015 C-14	R7039 F-6	
* L2291 D-15	* Q4005 C-11	* R1341 C-12	* R2219 E-12	R3397 F-8	* R4539 C-12	* R5019 B-15	R7040 E-6	
* L3102 F-14	* Q4006 D-10	* R1342 C-12	* R2220 F-13	R3398 F-8	* R4540 D-12	* R5020 A-14	R7042 E-6	
* L3103 G-12	* Q4007 C-10	* R1343 C-12	* R2221 F-13	R3607 B-6	* R4541 C-12	* R5021 A-14	R7043 E-6	
L3104 F-6	* Q4008 D-10	* R1345 A-11	* R2222 E-13	R3611 B-6	* R4542 D-12	R5104 C-4	R7044 F-6	
L3105 F-6	* Q4009 C-10	* R1347 A-12	* R2223 F-13	R3617 C-6	* R4543 D-12	* R5707 A-16	R7045 F-6	
L3106 F-6	* Q4010 C-11	* R1348 A-12	* R2224 F-15	R3622 C-7	* R4553 D-11	* R5708 A-16	* R7046 E-12	
* L3201 G-14	* Q4011 C-11	* R1357 B-11	* R2225 F-15	R3701 A-2	* R4554 C-12	* R5709 A-17		
L3303 E-7	Q4401 G-3	* R1358 B-11	* R2240 F-13	R3702 B-3	* R4555 E-11	* R5710 A-17	RB3101 F-6	
L3304 E-8	* Q4402 F-11	* R1359 B-10	* R2242 E-13	R3704 B-2	* R4556 E-11	* R5711 A-16	* RB3102 G-14	
L3305 F-7	* Q4501 D-12	* R1360 A-10	* R2243 E-13	R3705 B-2	* R4558 E-11	* R5712 A-16	RB3301 F-7	
L3306 F-7	* Q4701 C-16	R1369 A-8	* R2244 E-15	R3706 C-2	* R4559 E-11	* R5714 A-17	RB3701 A-2	
L3307 B-6	* Q4702 A-14	R1370 A-8	* R2245 E-15	R3708 C-2	* R4561 C-11	* R5715 A-17	RB3702 A-2	
L3601 B-6	* Q4704 A-14	* R1374 B-10	* R2247 D-13	R3721 B-2	* R4562 D-7	* R5717 B-15	RB3703 C-2	
L3602 B-6	* Q4801 C-14	* R1379 C-10	* R2248 D-13	R3722 B-2	* R4701 A-15	* R5718 B-15	* RB4501 C-13	
L3701 B-3	Q4901 C-4	* R1380 C-10	* R2255 D-13	R3724 B-3	* R4703 C-14	* R5719 B-15	* RB4502 C-11	
L3705 C-3	Q4902 B-3	* R1381 C-11	* R3103 G-12	R3726 C-2	* R4706 B-13	* R5720 B-17	* RB4503 C-12	
L4001 C-7	Q4903 B-3	* R1382 C-10	* R3104 G-12	R4001 C-8	* R4707 B-13	* R5721 B-17	* RB4703 A-15	
L4901 A-3	* Q5001 C-14	* R1383 C-10	* R3107 G-14	R4003 C-8	* R4708 C-14	* R5724 C-16	* RB4705 B-13	
* L5701 C-16	* Q5708 A-16	* R1384 C-10	* R3108 F-14	R4004 D-8	* R4710 A-15	* R5725 C-16	* RB4706 A-13	
* L5803 A-17	* Q5716 B-15	* R1385 C-10	* R3109 F-14	R4006 D-9	* R4711 B-13	* R5730 C-16	* RB4707 A-15	
L6001 A-5	* Q5717 A-16	* R1386 C-12	* R3110 F-14	R4007 D-9	* R4712 B-13	* R5731 C-17	* RB4708 B-13	
* L7001 E-11	* Q5718 A-16	* R1387 C-11	* R3111 G-14	R4008 D-8	* R4717 A-15	* R5732 C-17	* RB4709 A-15	
* L7002 F-11	Q7001 F-6	R1401 D-5	R3114 G-4	R4009 D-8	* R4720 C-15	* R5733 C-17	* RB4710 A-15	
	Q7002 F-6	R1402 D-5	R3115 F-4	R4010 D-7	* R4722 C-12	* R5742 A-16	* RB4711 B-13	
LF4001 C-8		R1404 D-5	R3117 F-4	* R4011 C-10	* R4725 B-15	* R5743 A-16	* RB4801 C-15	
		R1409 D-5	R3118 F-4	* R4012 C-10	* R4726 C-16	* R5744 B-15	* RB4802 C-15	
Q1101 E-6	* R1102 E-16	R1410 E-6	R3119 F-4	* R4013 D-10	* R4729 A-14	* R5745 B-15	RB4901 B-3	
Q1102 D-7	* R1103 E-16	R1414 E-5	R3120 F-4	* R4014 D-11	* R4730 C-14	* R5746 B-16	RB7001 E-6	
Q1103 B-5	* R1104 E-16	R1415 D-6	R3121 F-4	* R4015 C-10	* R4731 A-14	* R5747 B-16	RB7002 E-6	
Q1104 A-5	* R1105 F-16	R1416 D-6	R3122 F-4	* R4016 C-11	* R4733 C-14	* R5748 B-15	RB7003 E-5	
Q1105 A-6	R1107 A-4	R1418 D-6	R3125 G-5	* R4017 C-11	* R4736 C-13	* R5749 B-16	RB7004 E-5	
Q1106 B-5	R1108 A-4	R1419 E-5	R3127 F-6	* R4018 C-11	* R4737 A-14	* R5801 B-18	* RB7005 F-11	
Q1301 B-8	R1109 D-7	R1420 E-5	* R3128 G-15	* R4019 C-11	* R4738 A-13	* R5802 B-18		
* Q1302 B-12	R1111 E-6	* R1501 F-15	R3129 G-5	R4021 D-8	* R4739 A-13	* R5803 A-18	T1301 B-8	
* Q1303 A-11	R1112 D-7	* R1502 F-15	R3130 G-5	R4401 G-6	* R4740 A-13	* R5805 A-18		
* Q1304 A-12	R1114 B-5	* R1503 F-15	R3131 G-5	R4402 G-6	* R4742 C-13	* R5806 A-18	VDR112 A-3	
* Q1305 B-12	* R1119 D-12	* R1504 G-15	R3132 F-5	R4405 G-6	* R4743 C-13	* R5807 A-18	VDR113 A-3	
* Q1306 B-11	* R1200 D-12	* R1506 G-15	R3133 G-5	R4407 G-3	* R4744 B-13	* R5809 A-18	VDR114 A-3	
* Q1307 A-12	R1121 A-6	* R1509 F-15	R3136 F-5	* R4408 G-11	* R4745 B-13	* R5814 B-18	VDR115 A-4	
* Q1308 A-12	R1122 A-6	* R1512 G-16	R3137 F-5	* R4409 G-12	* R4746 B-13	* R5815 A-18	VDR116 A-3	

**SECTION 6  
REPAIR PARTS LIST**

## 6-2. ELECTRICAL PARTS LIST

### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:  
uF:  $\mu$ F

- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

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

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

Ref. No.	Part No.	Description	Remarks		Ref. No.	Part No.	Description	Remarks			
A-7012-079-A	VC-276 (QPAO) BOARD, COMPLETE (SERVICE)	*****		C1342	1-165-319-11	CERAMIC CHIP	0.1uF	50V			
		< CAPACITOR >		C1343	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V		
C1101	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1344	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C1103	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1345	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1107	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C1347	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C1301	1-164-933-11	CERAMIC CHIP	220PF	10%	50V	C1348	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1302	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1350	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C1303	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1352	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1304	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1354	1-113-985-11	TANTAL. CHIP	10uF	20%	20V
C1305	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V	C1355	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C1306	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C1356	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C1307	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C1357	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C1308	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C1359	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C1309	1-164-936-11	CERAMIC CHIP	680PF	10%	50V	C1362	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C1310	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C1365	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1311	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	C1367	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1312	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C1403	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1313	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1404	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1314	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C1407	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1315	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1408	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1316	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1409	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1317	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1411	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1318	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1412	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1319	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1413	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1321	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1414	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1323	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1418	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1326	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1501	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C1327	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V	C1502	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1328	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1503	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C1329	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1504	1-115-156-11	CERAMIC CHIP	1uF		10V
C1330	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1505	1-115-156-11	CERAMIC CHIP	1uF		10V
C1331	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1506	1-131-861-91	TANTAL. CHIP	4.7uF	20%	20V
C1332	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C1507	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1333	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	C1508	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C1334	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C1509	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1335	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C1510	1-164-848-11	CERAMIC CHIP	8PF	0.50PF	50V
C1336	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	C1511	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C1337	1-164-506-11	CERAMIC CHIP	4.7uF		16V	C1512	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1338	1-164-506-11	CERAMIC CHIP	4.7uF		16V	C1513	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C1339	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C1514	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C1340	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C1515	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C1341	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C1516	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
						C1517	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
						C1518	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
						C1519	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C1520	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C3108	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1521	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3109	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1522	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3110	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3111	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1524	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	C3112	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C1525	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3113	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1552	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3114	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C1554	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C3115	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1556	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C3116	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1558	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3117	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C1559	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3119	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C1560	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C3120	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1561	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3121	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1562	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C3122	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C1563	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V	C3123	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C1564	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C3124	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C1565	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C3126	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1566	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3127	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1568	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C3128	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1571	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C3131	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1572	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3133	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2002	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3134	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2003	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3135	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C2005	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V	C3136	1-164-872-11	CERAMIC CHIP	82PF	5%	50V
C2006	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V	C3137	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2007	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V	C3138	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C2008	1-110-666-11	ELECT CHIP	22uF	20%	6.3V	C3139	1-164-878-11	CERAMIC CHIP	150PF	5%	16V
C2009	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V	C3141	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C2010	1-110-666-11	ELECT CHIP	22uF	20%	6.3V	C3142	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C2012	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V	C3143	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C2014	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C3144	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C2015	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3202	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2201	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3203	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C2204	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3205	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2208	1-164-392-11	CERAMIC CHIP	390PF	5%	50V	C3206	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2210	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3210	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C2211	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V	C3213	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C2212	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3216	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2213	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3217	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2223	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3301	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2226	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3303	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2227	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C3306	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2229	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3307	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V
C2230	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	C3308	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V
C2233	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C3309	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2234	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3310	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2238	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3312	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2240	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3313	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C2242	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3314	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C2243	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3315	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C2244	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3316	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C2247	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C3318	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C2250	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C3319	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C2291	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3320	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C2292	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3322	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C2293	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C3323	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3102	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3324	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C3104	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3325	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C3105	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3326	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3107	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3327	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V

# DCR-TRV238E/TRV239E

## VC-276

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks		
C3328	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4004	1-119-751-11	TANTAL. CHIP	22uF	20%	16V
C3329	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4005	1-119-751-11	TANTAL. CHIP	22uF	20%	16V
C3331	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4006	1-119-751-11	TANTAL. CHIP	22uF	20%	16V
C3332	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4009	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C3333	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4401	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3335	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C4402	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3337	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C4403	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3338	1-164-882-11	CERAMIC CHIP	220PF	5%	16V	C4404	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3341	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C4405	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C3342	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C4406	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C3343	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4408	1-104-912-11	TANTAL. CHIP	3.3uF	10%	6.3V
C3348	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4409	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3601	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4410	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3603	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4411	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3604	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4412	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3608	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C4413	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3610	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4414	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C3611	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4415	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C3612	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C4416	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3614	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4417	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C3615	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4418	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C3616	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4419	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C3617	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4420	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C3618	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4421	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C3619	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4424	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3620	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4425	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C3622	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4426	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3626	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4427	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3629	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4428	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C3631	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4429	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C3633	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4430	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3634	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4431	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3701	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4432	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3704	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C4433	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C3705	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V	C4434	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C3706	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4437	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3707	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C4438	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3708	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C4439	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C3709	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C4440	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3710	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C4441	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3711	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C4442	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3712	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C4443	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C3714	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4444	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3715	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V	C4445	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3716	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4501	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3717	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C4502	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3719	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4503	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V
C3723	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4504	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V
C3724	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C4505	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3728	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C4507	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3729	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C4509	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3730	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4510	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3731	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4511	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3734	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C4512	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3735	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C4516	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3736	1-126-246-11	ELECT CHIP	220uF	20%	4V	C4518	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3737	1-126-246-11	ELECT CHIP	220uF	20%	4V	C4519	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4001	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C4520	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C4002	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C4526	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4003	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	C4527	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C4528	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C5746	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C4701	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C5747	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C4702	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5748	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4703	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5749	1-164-870-11	CERAMIC CHIP	68PF	5%	50V
C4709	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5750	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C4711	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V	C5751	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C4712	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5752	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4715	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C5753	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4716	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C5754	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C4719	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C5755	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C4720	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C5756	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C4721	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V	C5757	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C4723	1-104-851-11	TANTAL. CHIP	10uF	20%	10V	C5760	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C4724	1-119-749-11	TANTAL. CHIP	33uF	20%	4V	C5761	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C4725	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C5806	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4726	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5807	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C4727	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C5808	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C4801	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5809	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4806	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C5810	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C4808	1-164-858-11	CERAMIC CHIP	22PF	5%	50V	C5812	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C4809	1-164-856-81	CERAMIC CHIP	18PF	5%	50V	C5813	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C5701	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C5814	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C5702	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C5815	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C5703	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5816	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C5704	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C5817	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C5705	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	C5819	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C5706	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V	C5820	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C5706	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C5822	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5709	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5823	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5711	1-110-569-21	TANTAL. CHIP	47uF	20%	4V	C5824	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5712	1-110-569-21	TANTAL. CHIP	47uF	20%	4V	C5825	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5713	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C5826	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C5715	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V	C5827	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C5716	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C5829	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C5717	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5830	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C5718	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5832	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C5719	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5833	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C5720	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5835	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C5721	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C5836	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C5722	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5838	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5723	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	C5839	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C5724	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C5840	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5725	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C5841	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C5728	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C6001	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5730	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C6002	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5731	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C6003	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5732	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C6004	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5733	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C6005	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5734	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C6006	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C5735	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C6007	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C5736	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C6008	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C5737	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C6017	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C5738	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C6021	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C5739	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C7001	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C5740	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C7002	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C5741	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C7004	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C5742	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C7005	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C5743	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C7006	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C5744	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C7008	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C5745	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C7009	1-164-739-11	CERAMIC CHIP	560PF	5%	50V

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description	Remarks	
C7010	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		< FUSE >		
C7011	1-107-687-11	TANTAL. CHIP	3.3uF	20%	20V				
C7012	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	△ F4001	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7013	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	△ F4002	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7014	1-164-876-11	CERAMIC CHIP	120PF	5%	50V	△ F4003	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7015	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	△ F4004	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7016	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	△ F4006	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7017	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V		< FERRITE BEAD >		
C7018	1-164-505-11	CERAMIC CHIP	2.2uF		16V				
C7019	1-109-994-11	CERAMIC CHIP	2.2uF	10%	10V	FB1102	1-414-760-21	FERRITE	OuH
						FB1102	1-414-760-21	FERRITE	OuH
						FB1301	1-414-760-21	FERRITE	OuH
						FB1402	1-414-760-21	FERRITE	OuH
						FB1403	1-414-760-21	FERRITE	OuH
						FB1501	1-414-760-21	FERRITE	OuH
						FB1504	1-414-760-21	FERRITE	OuH
						FB1506	1-500-283-11	FERRITE	OuH
						FB2202	1-414-760-21	FERRITE	OuH
						FB2204	1-414-760-21	FERRITE	OuH
						FB2205	1-414-760-21	FERRITE	OuH
						FB2291	1-414-760-21	FERRITE	OuH
						FB3303	1-414-760-21	FERRITE	OuH
						FB3304	1-414-760-21	FERRITE	OuH
						FB3307	1-414-760-21	FERRITE	OuH
						FB3601	1-414-760-21	FERRITE	OuH
						FB3701	1-414-760-21	FERRITE	OuH
						FB4501	1-414-760-21	FERRITE	OuH
						FB4701	1-414-760-21	FERRITE	OuH
						FB4801	1-414-760-21	FERRITE	OuH
						FB6001	1-414-760-21	FERRITE	OuH
						FB6002	1-414-760-21	FERRITE	OuH
						FB6003	1-414-760-21	FERRITE	OuH
						FB7001	1-414-760-21	FERRITE	OuH
						FB7002	1-414-760-21	FERRITE	OuH
								< IC >	
D1101	8-719-062-16	DIODE	01ZA8.2(TPL3)			IC1301	8-752-102-78	IC CXA3282R-T6	
D1102	8-719-056-85	DIODE	UDZSTE-178.2B			IC1303	8-759-650-28	IC RN5RZ59BA-TL	
D1104	8-719-062-16	DIODE	01ZA8.2(TPL3)			IC1305	8-759-525-53	IC RN5RZ31BA-TL	
D1107	8-719-056-85	DIODE	UDZSTE-178.2B			IC1401	6-701-648-01	IC MB87M1420LGA-G-ER	
D1108	8-719-062-16	DIODE	01ZA8.2(TPL3)			IC1501	8-752-417-70	IC CXD2444AR-T4	
D1109	8-719-056-85	DIODE	UDZSTE-178.2B			IC1502	8-759-684-90	IC VSP2200Y-1/2K	
D1110	8-719-062-16	DIODE	01ZA8.2(TPL3)			IC1552	8-759-681-42	IC NJM12902V(TE2)	
D1111	8-719-062-16	DIODE	01ZA8.2(TPL3)			IC1553	8-759-637-96	IC MPC17A135DTAEL	
D1115	8-719-046-85	DIODE	MA2S728-(K8).SO			IC2001	8-759-489-19	IC uPC6756GR-8JG-E2	
D1117	8-719-073-01	DIODE	MA111-(K8).SO			IC2201	8-759-677-85	IC MB87M1011PFF-G-BND	
D1118	8-719-421-67	DIODE	MA132WK-(K8).SO			IC2291	8-759-713-19	IC BH2222FV-E2	
D1301	8-719-081-19	DIODE	1SS383(T5RSONY1)			IC3101	8-752-086-52	IC CXA2071R-T4	
D1302	8-719-081-19	DIODE	1SS383(T5RSONY1)			IC3103	8-752-086-53	IC CXA2072R-T4	
D1306	8-719-081-19	DIODE	1SS383(T5RSONY1)			IC3201	8-752-093-69	IC CXA3265R-T4	
D1501	8-719-082-63	DIODE	1SV329(TPL3)			IC3202	8-759-075-70	IC TA75S393F-TE85R	
D1551	8-719-073-01	DIODE	MA111-(K8).SO			IC3301	8-759-650-63	IC CAIN-CSP	
D2201	8-719-081-96	DIODE	KV1870STL			IC3303	6-700-553-38	IC SN104266BGGM-TEB	
D2202	8-719-081-96	DIODE	KV1870STL			IC3603	6-701-682-01	IC MB87L4261PFV-G-BND-ER	
D3301	8-719-992-02	DIODE	RB705D-T146			IC3701	6-701-555-01	IC AN2225NFHQBA	
D3302	8-719-081-96	DIODE	KV1870STL			IC4401	8-759-640-85	IC CXA8096R-TBM	
D3303	8-719-992-02	DIODE	RB705D-T146						
D3304	8-719-081-96	DIODE	KV1870STL						
D4001	8-719-081-19	DIODE	1SS383(T5RSONY1)						
D4002	8-719-062-16	DIODE	01ZA8.2(TPL3)						
D4702	8-719-421-67	DIODE	MA132WK-(K8).SO						
D4703	8-719-421-27	DIODE	MA728-(K8).SO						
D4704	8-719-073-01	DIODE	MA111-(K8).SO						
D4802	8-719-046-85	DIODE	MA2S728-(K8).SO						
D7001	8-719-084-47	DIODE	1SV290(TPL3)						

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
IC4402	8-759-431-41	IC LB1991V-TLM		L3701	1-469-525-91	INDUCTOR	10uH
IC4501	6-801-539-01	IC MB91194LGA-G-108-ER		L3705	1-469-525-91	INDUCTOR	10uH
IC4502	8-759-593-47	IC AK6417AM-E2		L4001	1-412-056-11	INDUCTOR	4.7uH
IC4701	8-759-830-75	IC BD4181FV-E2		L5701	1-469-525-91	INDUCTOR	10uH
IC4703	8-759-642-45	IC TL1596CPWR		L5803	1-469-527-91	INDUCTOR	47uH
IC4801	8-752-930-76	IC CXP931129-605R-TL		L6001	1-469-525-91	INDUCTOR	10uH
IC4802	8-759-445-94	IC BR9080ARFV-WE2		L7001	1-469-525-91	INDUCTOR	10uH
IC5701	6-701-075-01	IC AN2983FH-EBV		L7002	1-469-891-21	INDUCTOR	6.8uH
IC5702	8-759-647-71	IC AK4550VT-E2					< LINE FILTER >
IC5801	8-759-638-50	IC AN2901FHQ-EB		LF4001	1-411-957-11	FILTER, COMMON MODE	
IC6001	8-752-415-97	IC CXD3155GA-T6					< TRANSISTOR >
IC6002	6-701-691-01	IC AK5355VT-E2		Q1103	8-729-052-59	TRANSISTOR	DTA144EHT2L
IC7001	8-752-100-95	IC CXA3289AR-T4		Q1104	8-729-052-65	TRANSISTOR	2SA1774HT2L
IC7002	8-752-405-57	IC CXD3501AR-T4		Q1105	8-729-052-66	TRANSISTOR	2SC4617HT2L
		< COIL >		Q1301	8-729-043-60	TRANSISTOR	CPH6102-TL-E
L1301	1-416-670-11	INDUCTOR	33uH	Q1302	8-729-046-98	TRANSISTOR	CPH6702-TL-E
L1302	1-416-669-11	INDUCTOR	22uH	Q1303	8-729-046-98	TRANSISTOR	CPH6702-TL-E
L1303	1-416-669-11	INDUCTOR	22uH	Q1304	8-729-046-98	TRANSISTOR	CPH6702-TL-E
L1304	1-416-669-11	INDUCTOR	22uH	Q1305	8-729-046-98	TRANSISTOR	CPH6702-TL-E
L1305	1-416-669-11	INDUCTOR	22uH	Q1306	8-729-046-98	TRANSISTOR	CPH6702-TL-E
L1306	1-412-056-11	INDUCTOR	4.7uH	Q1307	8-729-044-58	TRANSISTOR	SI2304DS-T1
L1307	1-412-056-11	INDUCTOR	4.7uH				
L1308	1-469-526-91	INDUCTOR	22uH	Q1308	8-729-044-58	TRANSISTOR	SI2304DS-T1
L1309	1-469-526-91	INDUCTOR	22uH	Q1309	8-729-046-98	TRANSISTOR	CPH6702-TL-E
L1310	1-412-056-11	INDUCTOR	4.7uH	Q1311	8-729-101-07	TRANSISTOR	2SB798-T1-DLDK
L1313	1-469-524-91	INDUCTOR	4.7uH	Q1312	8-729-052-65	TRANSISTOR	2SA1774HT2L
L1314	1-469-524-91	INDUCTOR	4.7uH	Q1314	8-729-052-64	TRANSISTOR	DTC144EHT2L
L1315	1-469-524-91	INDUCTOR	4.7uH				
L1316	1-414-400-41	INDUCTOR	22uH	Q1316	8-729-052-66	TRANSISTOR	2SC4617HT2L
L1317	1-416-669-11	INDUCTOR	22uH	Q1321	8-729-052-66	TRANSISTOR	2SC4617HT2L
L1318	1-412-056-11	INDUCTOR	4.7uH	Q1323	8-729-052-65	TRANSISTOR	2SA1774HT2L
L1401	1-469-525-91	INDUCTOR	10uH	Q1324	8-729-052-66	TRANSISTOR	2SC4617HT2L
L1501	1-469-525-91	INDUCTOR	10uH	Q1327	8-759-054-50	TRANSISTOR	UP04501008S0
L1551	1-469-525-91	INDUCTOR	10uH				
L1553	1-469-525-91	INDUCTOR	10uH	Q1328	8-759-054-50	TRANSISTOR	UP04501008S0
L2001	1-469-525-91	INDUCTOR	10uH	Q1329	8-729-054-49	TRANSISTOR	UP04401008S0
L2202	1-469-525-91	INDUCTOR	10uH	Q1330	8-729-054-49	TRANSISTOR	UP04401008S0
L2204	1-469-525-91	INDUCTOR	10uH	Q1333	8-729-052-66	TRANSISTOR	2SC4617HT2L
L2207	1-400-196-11	INDUCTOR	0uH	Q1335	8-759-054-50	TRANSISTOR	UP04501008S0
L2208	1-469-525-91	INDUCTOR	10uH				
L2209	1-469-525-91	INDUCTOR	10uH	Q1337	8-729-216-22	TRANSISTOR	2SA1162-YG-TE85L
L2291	1-469-525-91	INDUCTOR	10uH	Q1551	8-729-052-66	TRANSISTOR	2SC4617HT2L
L3102	1-469-525-91	INDUCTOR	10uH	Q1554	8-729-052-66	TRANSISTOR	2SC4617HT2L
L3103	1-469-525-91	INDUCTOR	10uH	Q1555	8-729-054-51	TRANSISTOR	UP04116008S0
L3104	1-469-525-91	INDUCTOR	10uH	Q2207	8-759-054-48	TRANSISTOR	UP04601008S0
L3105	1-414-406-41	INDUCTOR	220uH				
L3106	1-400-197-11	INDUCTOR	0uH	Q3102	8-729-052-65	TRANSISTOR	2SA1774HT2L
L3201	1-469-525-91	INDUCTOR	10uH	Q3103	8-729-052-64	TRANSISTOR	DTC144EHT2L
L3303	1-469-546-21	INDUCTOR	0uH	Q3104	8-729-052-64	TRANSISTOR	DTC144EHT2L
L3304	1-400-194-11	INDUCTOR	0uH	Q3107	8-729-052-66	TRANSISTOR	2SC4617HT2L
L3305	1-469-525-91	INDUCTOR	10uH	Q3109	8-729-054-44	TRANSISTOR	UP04111008S0
L3306	1-469-525-91	INDUCTOR	10uH				
L3307	1-469-525-91	INDUCTOR	10uH	Q3111	8-729-052-65	TRANSISTOR	2SA1774HT2L
L3601	1-469-525-91	INDUCTOR	10uH	Q3116	8-729-047-19	TRANSISTOR	2SA1965-S-TL
L3602	1-469-525-91	INDUCTOR	10uH	Q3117	8-759-054-48	TRANSISTOR	UP04601008S0
				Q3118	8-729-054-47	TRANSISTOR	UP04213008S0
				Q3119	8-759-054-50	TRANSISTOR	UP04501008S0
				Q3120	8-759-054-50	TRANSISTOR	UP04501008S0
				Q3201	8-729-052-64	TRANSISTOR	DTC144EHT2L
				Q3306	8-729-052-65	TRANSISTOR	2SA1774HT2L
				Q3309	8-729-054-49	TRANSISTOR	UP04401008S0
				Q3310	8-729-054-49	TRANSISTOR	UP04401008S0

## VC-276

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q3602	8-759-054-48	TRANSISTOR	UP04601008S0	R1322	1-208-707-11	METAL CHIP	10K 0.5% 1/16W
Q3701	8-729-052-66	TRANSISTOR	2SC4617HT2L	R1323	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q3702	8-729-052-59	TRANSISTOR	DTA144EHT2L	R1326	1-218-965-11	RES-CHIP	10K 5% 1/16W
Q3703	8-759-054-50	TRANSISTOR	UP04501008S0	R1327	1-218-969-11	RES-CHIP	22K 5% 1/16W
Q4001	8-729-047-68	TRANSISTOR	SSM3K03FE(TPL3)	R1330	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
Q4002	8-729-056-54	TRANSISTOR	TPCS8302(TE12L)	R1331	1-218-965-11	RES-CHIP	10K 5% 1/16W
Q4003	8-729-804-41	TRANSISTOR	2SB1122-ST-TD	R1332	1-208-943-11	METAL CHIP	220K 0.5% 1/16W
Q4004	8-729-052-64	TRANSISTOR	DTC144EHT2L	R1333	1-218-973-11	RES-CHIP	47K 5% 1/16W
Q4005	8-729-052-64	TRANSISTOR	DTC144EHT2L	R1334	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q4007	8-729-052-59	TRANSISTOR	DTA144EHT2L	R1335	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q4009	8-729-023-89	TRANSISTOR	2SJ305(TE85L)	R1336	1-218-969-11	RES-CHIP	22K 5% 1/16W
Q4011	6-550-037-01	TRANSISTOR	NTGS3455T1	R1337	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q4401	8-729-052-66	TRANSISTOR	2SC4617HT2L	R1338	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
Q4402	8-729-052-64	TRANSISTOR	DTC144EHT2L	R1339	1-208-721-11	METAL CHIP	39K 0.5% 1/16W
Q4501	8-729-045-71	TRANSISTOR	DTC114EHT2L	R1340	1-208-908-81	METAL CHIP	7.5K 0.5% 1/16W
Q4701	8-729-042-58	TRANSISTOR	DTA114EHT2L	R1341	1-218-990-11	SHORT	0
Q4702	8-729-052-64	TRANSISTOR	DTC144EHT2L	R1342	1-208-943-11	METAL CHIP	220K 0.5% 1/16W
Q4704	8-729-052-66	TRANSISTOR	2SC4617HT2L	R1343	1-208-931-11	METAL CHIP	68K 0.5% 1/16W
Q4801	8-729-041-43	TRANSISTOR	HN1L02FU(TE85R)	R1345	1-218-990-11	SHORT	0
Q5708	8-729-037-63	TRANSISTOR	DTA114HT2L	R1347	1-208-919-81	METAL CHIP	22K 0.5% 1/16W
Q5717	8-729-054-52	TRANSISTOR	UP04216008S0	R1348	1-208-707-11	METAL CHIP	10K 0.5% 1/16W
Q5718	8-729-054-52	TRANSISTOR	UP04216008S0	R1357	1-218-990-11	SHORT	0
< RESISTOR >				R1358	1-218-990-11	SHORT	0
R1102	1-218-941-81	RES-CHIP	100 5% 1/16W	R1359	1-218-990-11	SHORT	0
R1107	1-218-965-11	RES-CHIP	10K 5% 1/16W	R1360	1-218-990-11	SHORT	0
R1108	1-218-965-11	RES-CHIP	10K 5% 1/16W	R1369	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
R1114	1-218-955-11	RES-CHIP	1.5K 5% 1/16W	R1370	1-208-703-11	METAL CHIP	6.8K 0.5% 1/16W
R1119	1-218-969-11	RES-CHIP	22K 5% 1/16W	R1374	1-218-958-11	METAL CHIP	2.7K 0.5% 1/16W
R1120	1-218-977-11	RES-CHIP	100K 5% 1/16W	R1379	1-208-711-11	METAL CHIP	15K 0.5% 1/16W
R1121	1-218-939-11	RES-CHIP	68 5% 1/16W	R1380	1-218-990-11	SHORT	0
R1122	1-218-945-11	RES-CHIP	220 5% 1/16W	R1381	1-218-977-11	RES-CHIP	100K 5% 1/16W
R1123	1-218-947-11	RES-CHIP	330 5% 1/16W	R1382	1-208-699-11	METAL CHIP	4.7K 0.5% 1/16W
R1124	1-218-977-11	RES-CHIP	100K 5% 1/16W	R1383	1-218-952-11	RES-CHIP	820 5% 1/16W
R1127	1-218-990-11	SHORT	0	R1384	1-208-711-11	METAL CHIP	15K 0.5% 1/16W
R1128	1-218-990-11	SHORT	0	R1385	1-208-719-11	METAL CHIP	33K 0.5% 1/16W
R1130	1-218-955-11	RES-CHIP	1.5K 5% 1/16W	R1386	1-218-990-11	SHORT	0
R1132	1-218-953-11	RES-CHIP	1K 5% 1/16W	R1401	1-218-990-11	SHORT	0
R1136	1-218-949-11	RES-CHIP	470 5% 1/16W	R1410	1-216-864-11	METAL CHIP	0 5% 1/16W
R1137	1-218-953-11	RES-CHIP	1K 5% 1/16W	R1414	1-218-990-11	SHORT	0
R1140	1-218-949-11	RES-CHIP	470 5% 1/16W	R1418	1-218-990-11	SHORT	0
R1141	1-218-990-11	SHORT	0	R1501	1-218-990-11	SHORT	0
R1301	1-218-969-11	RES-CHIP	22K 5% 1/16W	R1502	1-218-990-11	SHORT	0
R1302	1-218-971-11	RES-CHIP	33K 5% 1/16W	R1503	1-218-977-11	RES-CHIP	100K 5% 1/16W
R1304	1-218-971-11	RES-CHIP	33K 5% 1/16W	R1504	1-218-990-11	SHORT	0
R1305	1-208-661-11	METAL CHIP	120 0.5% 1/16W	R1506	1-218-990-11	SHORT	0
R1306	1-218-967-11	RES-CHIP	15K 5% 1/16W	R1512	1-218-985-11	RES-CHIP	470K 5% 1/16W
R1307	1-218-963-11	RES-CHIP	6.8K 5% 1/16W	R1521	1-218-990-11	SHORT	0
R1309	1-218-965-11	RES-CHIP	10K 5% 1/16W	R1523	1-218-990-11	SHORT	0
R1310	1-218-990-11	SHORT	0	R1524	1-216-864-11	METAL CHIP	0 5% 1/16W
R1311	1-218-969-11	RES-CHIP	22K 5% 1/16W	R1525	1-216-864-11	METAL CHIP	0 5% 1/16W
R1312	1-218-961-11	RES-CHIP	4.7K 5% 1/16W	R1551	1-218-973-11	RES-CHIP	47K 5% 1/16W
R1313	1-218-964-11	RES-CHIP	8.2K 5% 1/16W	R1552	1-218-953-11	RES-CHIP	1K 5% 1/16W
R1314	1-218-969-11	RES-CHIP	22K 5% 1/16W	R1555	1-218-975-11	RES-CHIP	68K 5% 1/16W
R1317	1-218-973-11	RES-CHIP	47K 5% 1/16W	R1556	1-218-953-11	RES-CHIP	1K 5% 1/16W
R1318	1-218-961-11	RES-CHIP	4.7K 5% 1/16W	R1557	1-218-975-11	RES-CHIP	68K 5% 1/16W
R1319	1-218-973-11	RES-CHIP	47K 5% 1/16W	R1560	1-208-635-11	RES-CHIP	10 5% 1/16W
R1320	1-218-969-11	RES-CHIP	22K 5% 1/16W	R1561	1-218-989-11	RES-CHIP	1M 5% 1/16W
R1321	1-208-919-81	METAL CHIP	22K 0.5% 1/16W	R1562	1-218-957-11	RES-CHIP	2.2K 5% 1/16W
				R1563	1-218-965-11	RES-CHIP	10K 5% 1/16W
				R1564	1-218-981-11	RES-CHIP	220K 5% 1/16W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R1565	1-218-985-11	RES-CHIP	470K	5%	1/16W	R3125	1-218-945-11	METAL CHIP	220	0.5%	1/16W
R1566	1-218-985-11	RES-CHIP	470K	5%	1/16W	R3127	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1567	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R3128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1568	1-218-967-11	RES-CHIP	15K	5%	1/16W	R3129	1-218-945-11	METAL CHIP	220	0.5%	1/16W
R1569	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3130	1-218-945-11	METAL CHIP	220	0.5%	1/16W
R1570	1-218-985-11	RES-CHIP	470K	5%	1/16W	R3131	1-218-945-11	METAL CHIP	220	0.5%	1/16W
R1571	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3132	1-218-946-11	RES-CHIP	270	5%	1/16W
R1572	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3133	1-218-945-11	RES-CHIP	220	5%	1/16W
R1573	1-218-947-11	RES-CHIP	330	5%	1/16W	R3136	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R1574	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3137	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1575	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3138	1-218-941-81	RES-CHIP	100	5%	1/16W
R1576	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3143	1-218-938-11	RES-CHIP	56	5%	1/16W
R1577	1-218-973-11	RES-CHIP	47K	5%	1/16W	R3144	1-218-950-11	RES-CHIP	560	5%	1/16W
R1578	1-218-990-11	SHORT	0			R3205	1-218-985-11	RES-CHIP	470K	5%	1/16W
R2001	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3206	1-218-985-11	RES-CHIP	470K	5%	1/16W
R2002	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3210	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2003	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3212	1-218-986-11	RES-CHIP	560K	5%	1/16W
R2004	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3213	1-218-985-11	RES-CHIP	470K	5%	1/16W
R2005	1-218-989-11	RES-CHIP	1M	5%	1/16W	R3214	1-218-981-11	RES-CHIP	220K	5%	1/16W
R2006	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3215	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R2007	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3310	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2008	1-218-989-11	RES-CHIP	1M	5%	1/16W	R3311	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2010	1-218-967-11	RES-CHIP	15K	5%	1/16W	R3312	1-218-946-11	RES-CHIP	270	5%	1/16W
R2205	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3315	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R2206	1-218-977-11	RES-CHIP	100K	5%	1/16W	R3316	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R2209	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3317	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R2210	1-218-954-11	RES-CHIP	1.2K	5%	1/16W	R3318	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2213	1-218-962-11	RES-CHIP	5.6K	5%	1/16W	R3319	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2215	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3320	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R2216	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	R3321	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R2218	1-218-949-11	RES-CHIP	470	5%	1/16W	R3322	1-218-941-81	RES-CHIP	100	5%	1/16W
R2219	1-218-941-81	RES-CHIP	100	5%	1/16W	R3323	1-218-947-11	RES-CHIP	330	5%	1/16W
R2220	1-218-972-11	RES-CHIP	39K	5%	1/16W	R3324	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R2221	1-218-952-11	RES-CHIP	820	5%	1/16W	R3325	1-218-937-11	RES-CHIP	47	5%	1/16W
R2222	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	R3328	1-218-849-11	METAL CHIP	1.2K	0.5%	1/16W
R2224	1-218-966-11	RES-CHIP	12K	5%	1/16W	R3334	1-218-849-11	METAL CHIP	1.2K	0.5%	1/16W
R2225	1-218-949-11	RES-CHIP	470	5%	1/16W	R3338	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R2240	1-218-989-11	RES-CHIP	1M	5%	1/16W	R3340	1-218-849-11	METAL CHIP	1.2K	0.5%	1/16W
R2242	1-218-967-11	RES-CHIP	15K	5%	1/16W	R3351	1-218-946-11	RES-CHIP	270	5%	1/16W
R2243	1-218-967-11	RES-CHIP	15K	5%	1/16W	R3356	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R2244	1-218-966-11	RES-CHIP	12K	5%	1/16W	R3358	1-218-945-11	RES-CHIP	220	5%	1/16W
R2245	1-218-949-11	RES-CHIP	470	5%	1/16W	R3360	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R2247	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3361	1-208-709-11	METAL CHIP	12K	0.5%	1/16W
R2248	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3364	1-208-709-11	METAL CHIP	12K	0.5%	1/16W
R2255	1-218-990-11	SHORT	0			R3367	1-218-938-11	RES-CHIP	56	5%	1/16W
R3103	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3368	1-218-938-11	RES-CHIP	56	5%	1/16W
R3104	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	R3369	1-218-864-11	METAL CHIP	5.1K	0.5%	1/16W
R3107	1-218-979-11	RES-CHIP	150K	5%	1/16W	R3370	1-218-938-11	RES-CHIP	56	5%	1/16W
R3108	1-218-989-11	RES-CHIP	1M	5%	1/16W	R3372	1-218-938-11	RES-CHIP	56	5%	1/16W
R3109	1-208-920-81	METAL CHIP	24K	0.5%	1/16W	R3394	1-218-990-11	SHORT	0		
R3110	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3607	1-218-965-11	RES-CHIP	10K	5%	1/16W
R3111	1-218-949-11	RES-CHIP	470	5%	1/16W	R3611	1-218-965-11	RES-CHIP	10K	5%	1/16W
R3114	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R3617	1-218-951-11	RES-CHIP	680	5%	1/16W
R3115	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3622	1-218-949-11	RES-CHIP	470	5%	1/16W
R3117	1-218-969-11	RES-CHIP	22K	5%	1/16W	R3701	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R3118	1-220-196-11	METAL CHIP	13K	0.5%	1/16W	R3702	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R3119	1-208-919-81	METAL CHIP	22K	0.5%	1/16W	R3704	1-218-941-81	RES-CHIP	100	5%	1/16W
R3120	1-208-919-81	METAL CHIP	22K	0.5%	1/16W	R3705	1-218-981-11	RES-CHIP	220K	5%	1/16W
R3121	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W	R3706	1-218-953-11	RES-CHIP	1K	5%	1/16W
R3122	1-208-947-11	METAL CHIP	330K	0.5%	1/16W	R3708	1-218-953-11	RES-CHIP	1K	5%	1/16W

## VC-276

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks		
R3721	1-208-919-81	METAL CHIP	22K	0.5%	1/16W	R4537	1-218-953-11	RES-CHIP	1K	5%	1/16W
R3722	1-218-953-11	RES-CHIP	1K	5%	1/16W	R4538	1-218-985-11	RES-CHIP	470K	5%	1/16W
R3724	1-218-953-11	RES-CHIP	1K	5%	1/16W	R4539	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R3726	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4540	1-218-989-11	RES-CHIP	1M	5%	1/16W
R4001	1-218-953-11	RES-CHIP	1K	5%	1/16W	R4541	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4006	1-218-977-11	RES-CHIP	100K	5%	1/16W	R4542	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4007	1-218-989-11	RES-CHIP	1M	5%	1/16W	R4543	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4008	1-216-797-11	METAL CHIP	10	5%	1/16W	R4553	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4009	1-218-953-11	RES-CHIP	1K	5%	1/16W	R4554	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4010	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	R4555	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4012	1-218-973-11	RES-CHIP	47K	5%	1/16W	R4556	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4015	1-218-941-81	RES-CHIP	100	5%	1/16W	R4558	1-218-968-11	RES-CHIP	18K	5%	1/16W
R4016	1-218-989-11	RES-CHIP	1M	5%	1/16W	R4559	1-218-968-11	RES-CHIP	18K	5%	1/16W
R4401	1-218-973-11	RES-CHIP	47K	5%	1/16W	R4561	1-216-864-11	METAL CHIP	0	5%	1/16W
R4402	1-218-983-11	RES-CHIP	330K	5%	1/16W	R4562	1-218-990-11	SHORT	0		
R4407	1-218-949-11	RES-CHIP	470	5%	1/16W	R4701	1-218-989-11	RES-CHIP	1M	5%	1/16W
R4408	1-217-671-11	METAL CHIP	1	5%	1/10W	R4703	1-218-949-11	RES-CHIP	470	5%	1/16W
R4409	1-217-671-11	METAL CHIP	1	5%	1/10W	R4706	1-218-989-11	METAL CHIP	1M	0.5%	1/16W
R4410	1-217-671-11	METAL CHIP	1	5%	1/10W	R4707	1-218-989-11	METAL CHIP	1M	0.5%	1/16W
R4411	1-216-023-00	METAL CHIP	82	5%	1/10W	R4708	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4414	1-218-946-11	RES-CHIP	270	5%	1/16W	R4710	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4416	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R4711	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
R4417	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4712	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
R4424	1-218-971-11	RES-CHIP	33K	5%	1/16W	R4717	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4425	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	R4720	1-218-965-11	RES-CHIP	10K	5%	1/16W
R4426	1-218-976-11	RES-CHIP	82K	5%	1/16W	R4722	1-218-935-11	RES-CHIP	33	5%	1/16W
R4427	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4725	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
R4428	1-217-671-11	METAL CHIP	1	5%	1/10W	R4726	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4429	1-217-671-11	METAL CHIP	1	5%	1/10W	R4729	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4430	1-218-985-11	RES-CHIP	470K	5%	1/16W	R4730	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4431	1-218-967-11	RES-CHIP	15K	5%	1/16W	R4731	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4432	1-218-973-11	RES-CHIP	47K	5%	1/16W	R4733	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4434	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4736	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4435	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4737	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4436	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R4738	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R4447	1-218-971-11	RES-CHIP	33K	5%	1/16W	R4739	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4448	1-218-971-11	RES-CHIP	33K	5%	1/16W	R4740	1-218-965-11	RES-CHIP	10K	5%	1/16W
R4449	1-218-972-11	RES-CHIP	39K	5%	1/16W	R4742	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4450	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R4743	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4451	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R4744	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4452	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R4745	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4453	1-218-989-11	RES-CHIP	1M	5%	1/16W	R4746	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4461	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4747	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4462	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4811	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4463	1-218-977-11	RES-CHIP	100K	5%	1/16W	R4820	1-218-989-11	RES-CHIP	1M	5%	1/16W
R4501	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4836	1-218-990-11	SHORT	0		
R4502	1-218-941-81	RES-CHIP	100	5%	1/16W	R4837	1-219-570-11	RES-CHIP	10M	5%	1/10W
R4505	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4838	1-218-990-11	SHORT	0		
R4510	1-218-977-11	RES-CHIP	100K	5%	1/16W	R4841	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4516	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R4842	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4520	1-218-977-11	RES-CHIP	100K	5%	1/16W	R4843	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4525	1-218-973-11	RES-CHIP	47K	5%	1/16W	R5707	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4526	1-218-985-11	RES-CHIP	470K	5%	1/16W	R5708	1-218-953-11	RES-CHIP	1K	5%	1/16W
R4527	1-218-977-11	RES-CHIP	100K	5%	1/16W	R5709	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4530	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R5710	1-218-965-11	RES-CHIP	10K	5%	1/16W
R4531	1-218-953-11	RES-CHIP	1K	5%	1/16W	R5711	1-218-941-81	RES-CHIP	100	5%	1/16W
R4532	1-218-953-11	RES-CHIP	1K	5%	1/16W	R5712	1-218-941-81	RES-CHIP	100	5%	1/16W
R4534	1-218-989-11	RES-CHIP	1M	5%	1/16W	R5714	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4535	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R5715	1-218-965-11	RES-CHIP	10K	5%	1/16W
R4536	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R5718	1-218-965-11	RES-CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description		Remarks					
R5719	1-218-977-11	RES-CHIP	100K	5%	1/16W	< COMPOSITION CIRCUIT BLOCK >									
R5720	1-218-977-11	RES-CHIP	100K	5%	1/16W	RB3101	1-234-379-21	RES, NETWORK 22KX4	(1005)						
R5721	1-208-927-11	METAL CHIP	47K	0.5%	1/16W	RB3102	1-234-377-21	RES, NETWORK 4.7KX4	(1005)						
R5724	1-218-977-11	RES-CHIP	100K	5%	1/16W	RB3301	1-234-377-21	RES, NETWORK 4.7KX4	(1005)						
R5725	1-218-977-11	RES-CHIP	100K	5%	1/16W	RB3701	1-242-963-21	RES, NETWORK 33X4	(1005)						
R5730	1-218-952-11	RES-CHIP	820	5%	1/16W	RB3702	1-242-963-21	RES, NETWORK 33X4	(1005)						
R5731	1-218-949-11	RES-CHIP	470	5%	1/16W	RB3703	1-234-375-21	RES, NETWORK 1KX4	(1005)						
R5732	1-218-949-11	RES-CHIP	470	5%	1/16W	RB4501	1-234-381-21	RES, NETWORK 100KX4	(1005)						
R5742	1-218-965-11	RES-CHIP	10K	5%	1/16W	RB4502	1-234-381-21	RES, NETWORK 100KX4	(1005)						
R5743	1-218-965-11	RES-CHIP	10K	5%	1/16W	RB4503	1-234-381-21	RES, NETWORK 100KX4	(1005)						
R5748	1-218-990-11	SHORT	0			RB4703	1-234-383-21	RES, NETWORK 470KX4	(1005)						
R5749	1-218-990-11	SHORT	0			RB4705	1-234-383-21	RES, NETWORK 470KX4	(1005)						
R5801	1-218-971-11	RES-CHIP	33K	5%	1/16W	RB4706	1-234-375-21	RES, NETWORK 1KX4	(1005)						
R5802	1-218-968-11	RES-CHIP	18K	5%	1/16W	RB4707	1-234-383-21	RES, NETWORK 470KX4	(1005)						
R5803	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	RB4708	1-234-375-21	RES, NETWORK 1KX4	(1005)						
R5805	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	RB4709	1-234-375-21	RES, NETWORK 1KX4	(1005)						
R5806	1-218-965-11	RES-CHIP	10K	5%	1/16W	RB4710	1-234-375-21	RES, NETWORK 1KX4	(1005)						
R5807	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	RB4711	1-234-375-21	RES, NETWORK 1KX4	(1005)						
R5809	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	RB4801	1-234-381-21	RES, NETWORK 100KX4	(1005)						
R5814	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	RB4802	1-234-381-21	RES, NETWORK 100KX4	(1005)						
R5815	1-218-953-11	RES-CHIP	1K	5%	1/16W	RB7005	1-234-372-21	RES, NETWORK 100X4	(1005)						
R5816	1-218-953-11	RES-CHIP	1K	5%	1/16W	< TRANSFORMER >									
R5817	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	▲ T1301	1-435-252-21	TRANSFORMER, DC-DC CONVERTER							
R5818	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	< VARISTOR >									
R5819	1-208-910-11	RES-CHIP	9.1K	5%	1/16W	VDR112	1-803-974-21	VARISTOR, CHIP							
R5820	1-208-908-11	RES-CHIP	7.5K	5%	1/16W	VDR113	1-803-974-21	VARISTOR, CHIP							
R5821	1-208-910-11	RES-CHIP	9.1K	5%	1/16W	VDR114	1-803-974-21	VARISTOR, CHIP							
R5822	1-208-908-11	RES-CHIP	7.5K	5%	1/16W	VDR115	1-803-974-21	VARISTOR, CHIP							
R5823	1-218-955-11	RES-CHIP	1.5K	5%	1/16W	VDR116	1-803-974-21	VARISTOR, CHIP							
R5824	1-218-990-11	SHORT	0			< VIBRATOR >									
R5825	1-218-990-11	SHORT	0			X1501	1-767-400-11	VIBRATOR, CRYSTAL (36MHz)							
R5826	1-218-955-11	RES-CHIP	1.5K	5%	1/16W	X3301	1-767-399-11	VIBRATOR, CRYSTAL (24.576MHz)							
R5827	1-208-702-11	RES-CHIP	6.2K	5%	1/16W	X4501	1-760-655-41	VIBRATOR, CRYSTAL (20MHz)							
R5828	1-208-702-11	RES-CHIP	6.2K	5%	1/16W	X4801	1-767-980-22	VIBRATOR, CERAMIC (20MHz)							
R5829	1-218-971-11	RES-CHIP	33K	5%	1/16W	X4802	1-760-458-21	VIBRATOR, CRYSTAL (32.768KHZ)							
R5831	1-218-990-11	SHORT	0			X6001	1-781-620-21	VIBRATOR, CERAMIC (48MHz)							
R5834	1-218-965-11	RES-CHIP	10K	5%	1/16W										
R6002	1-218-934-11	RES-CHIP	27	5%	1/16W										
R6003	1-218-934-11	RES-CHIP	27	5%	1/16W										
R6009	1-218-977-11	RES-CHIP	100K	5%	1/16W										
R7001	1-218-990-11	SHORT	0												
R7002	1-218-990-11	SHORT	0												
R7003	1-218-985-11	RES-CHIP	470K	5%	1/16W										
R7007	1-218-958-11	RES-CHIP	2.7K	5%	1/16W										
R7008	1-218-973-11	RES-CHIP	47K	5%	1/16W										
R7009	1-218-975-11	RES-CHIP	68K	5%	1/16W										
R7010	1-218-969-11	RES-CHIP	22K	5%	1/16W										
R7011	1-218-975-11	RES-CHIP	68K	5%	1/16W										
R7012	1-218-989-11	RES-CHIP	1M	5%	1/16W										
R7013	1-218-977-11	RES-CHIP	100K	5%	1/16W										
R7019	1-208-927-11	METAL CHIP	47K	0.5%	1/16W										
R7020	1-218-989-11	METAL CHIP	1M	0.5%	1/16W										
R7044	1-218-947-11	RES-CHIP	330	5%	1/16W										
R7045	1-218-990-11	SHORT	0												
R7046	1-218-990-11	SHORT	0												

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



# DCR-TRV238E/TRV239E

RMT-814

**SONY®**

## SERVICE MANUAL

Level 3

Ver 1.1 2003. 05

*AEP Model  
East European Model  
DCR-TRV238E/TRV239E  
UK Model  
North European Model  
Russian Model*

*DCR-TRV238E*

## SUPPLEMENT-1

File this supplement-1 with the Service Manual.  
(PV02-016)

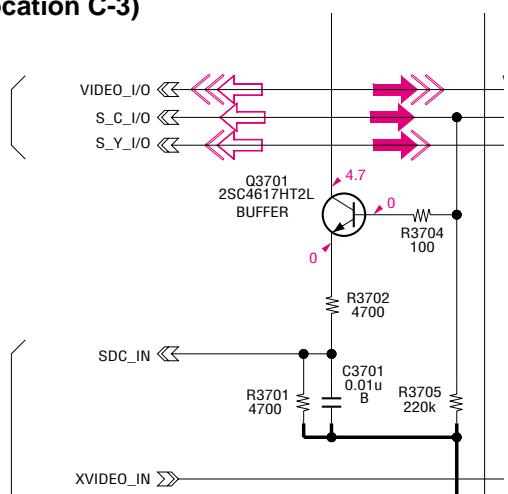
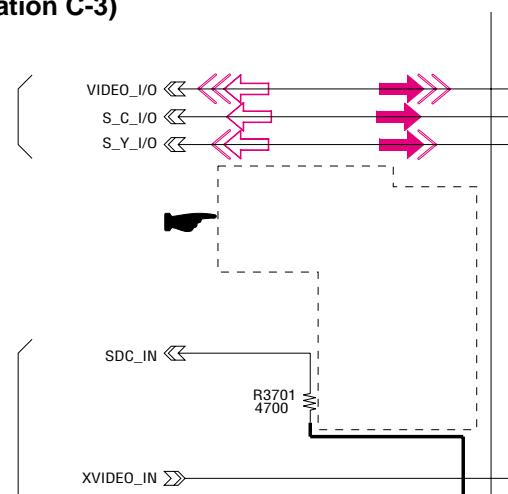
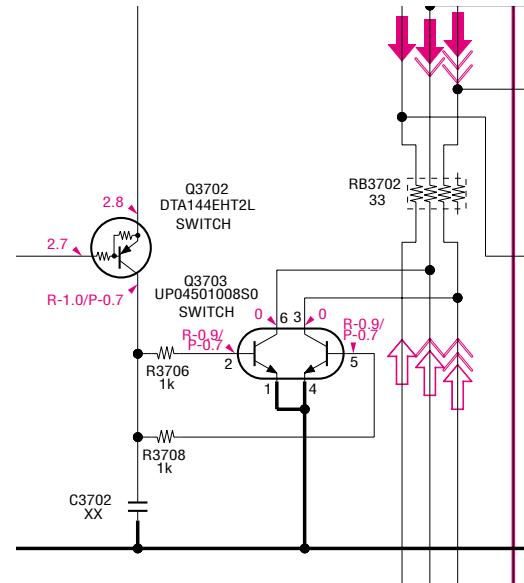
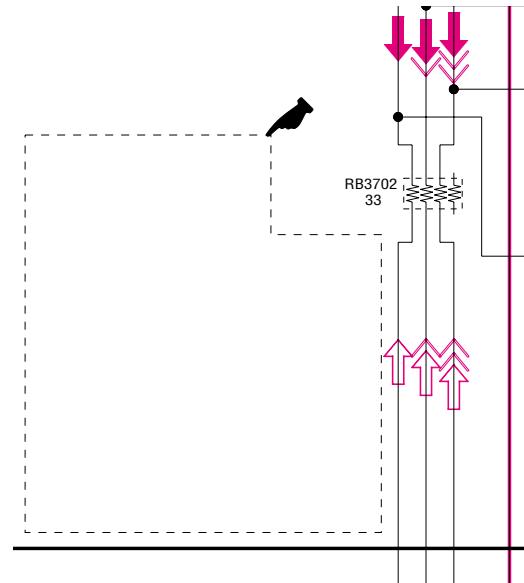
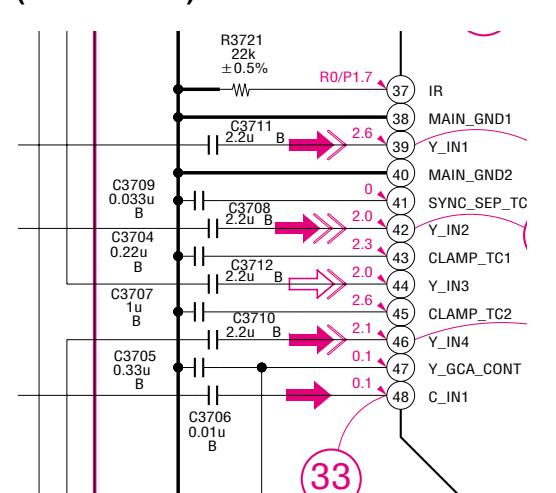
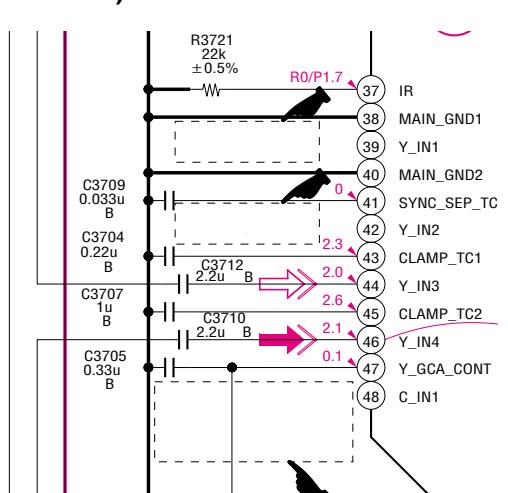
VC-276 board part No. suffix is changed.

	Before changed	After changed
VC-276 BOARD	1-683-617-11 1-683-617-21	1-683-617-12 <u>1-683-617-22</u>

## 4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

## 4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

 Deleted portion.

Page	Before change (-11/21)	After change (-12/22)
	<b>VC-276 BOARD (8/22)</b> (Location C-3)	<b>VC-276 BOARD (8/22)</b> (Location C-3)
		
	<b>(Location E-4)</b>	<b>(Location E-4)</b>
4-43, 4-44		
	<b>(Location C-7)</b>	<b>(Location C-7)</b>
		

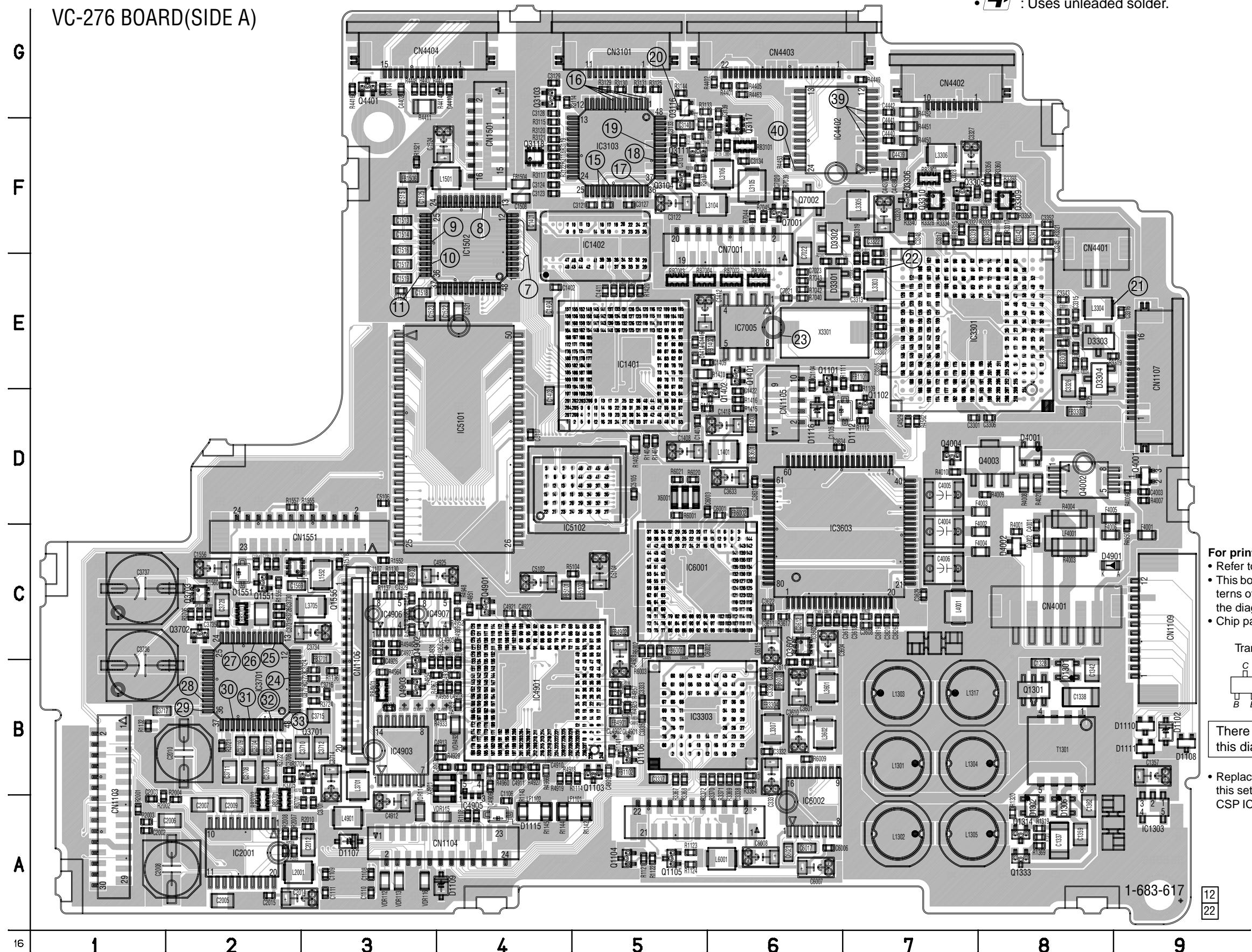
Changed portion. Added portion.

Page	Before change (-11/-21)	After change (-12/-22)
4-49	<b>VC-276 BOARD (11/22) (Location D-7)</b> 	<b>VC-276 BOARD (11/22) (Location D-7)</b> 
4-69	<b>VC-276 BOARD (21/22) (Location F-3)</b> 	<b>VC-276 BOARD (21/22) (Location F-3)</b> 
4-71	<b>VC-276 BOARD (22/22) (Location J-4)</b> 	<b>VC-276 BOARD (22/22) (Location J-4)</b> 

(Page 4-87)

**VC-276 (CAMERA PROCESS, Hi8/STD8 PB PROCESS, IRIS/FOCUS/ZOOM DRIVE, CAMERA/MPEG MOVIE/DIGITAL STILL, CHARACTER, AUDIO, DIGITAL STILL CONTROL, FLASH MEMORY, SDRAM, DV SIGNAL PROCESS, DV INTERFACE, DIGITAL8 PB RF AMP, VIDEO IN/OUT, VIDEO A/D CONVERTER, Hi8/STD8 PB RF AMP, EVF DRIVE, USB, DC IN, CHARGE, DC/DC CONVERTER, CONNECTOR, LANC/RESET/BEEP I/F) PRINTED WIRING BOARD**

## VC-276 BOARD(SIDE A)

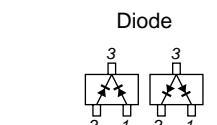


-  : Uses unleaded solder.

**For printed wiring board**

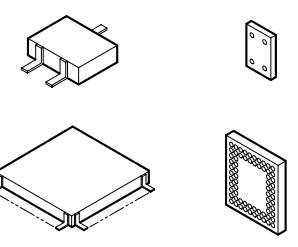
- Refer to page 9 for parts location.
  - This board is eight-layer print board. However, the patterns of layers two to seven have not been included in the diagram.
  - Chip parts

## Transistor



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

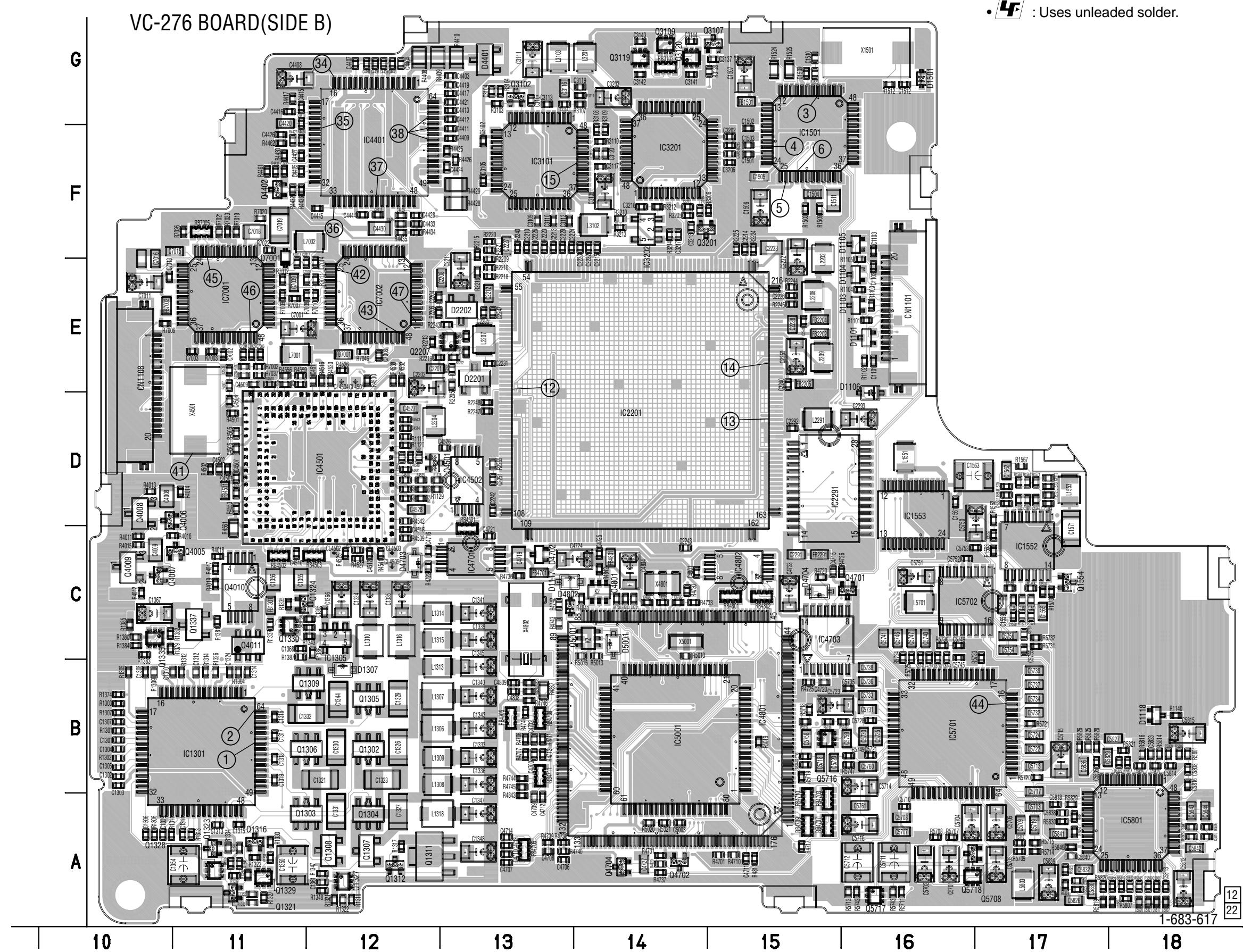
- Replacement of CSP (Chip Size Package) IC used in this set require a tool.  
CSP IC: IC1401, 1402, 3301, 3303, 4501,  
4901, 5102, 6001



### Conventional

CSP (chip size package)

(Page 4-89)



(Page 4-81)

## 4-4. MOUNTED PARTS LOCATION

no mark : side A  
\* mark : side B

### VC-276 BOARD

* C1101 E-16	* C1502 F-15	* C2291 C-15	C3342 F-8	* C4433 F-12	C5106 D-3	* C5835 B-17	D3304 E-8
* C1102 E-16	* C1503 F-15	* C2292 D-15	C3343 E-8	* C4434 F-12	C5107 D-4	* C5836 B-17	D4001 D-8
* C1103 F-16	* C1504 F-15	* C2293 D-16	C3345 F-8	C4437 F-7	* C5701 A-16	* C5838 A-17	D4002 C-8
C1104 E-6	* C1505 F-15	* C3102 F-13	C3348 F-7	C4438 F-7	* C5702 A-16	* C5839 A-17	* D4401 G-12
C1105 D-6	* C1506 F-15	* C3104 G-12	C3352 F-8	C4439 F-7	* C5703 A-17	* C5840 A-17	* D4702 C-13
C1106 A-4	* C1507 G-15	* C3105 F-13	C3601 B-6	C4440 F-7	* C5704 A-16	* C5841 A-17	* D4703 C-12
C1107 C-3	* C1508 F-4	* C3107 G-12	C3603 C-6	C4441 F-7	* C5705 A-17	* C5842 A-18	* D4704 C-15
C1108 A-3	* C1509 G-15	* C3108 F-14	C3604 C-6	C4442 G-7	* C5706 A-17	* C5843 A-18	* D4802 C-13
C1109 A-3	* C1510 G-15	* C3109 F-13	C3608 C-7	* C4443 G-11	* C5707 A-16	* C5844 A-18	D4901 C-8
C1110 A-3	* C1511 F-15	* C3110 F-13	C3610 B-6	* C4444 F-12	* C5708 A-16	C6001 D-6	* D5001 C-14
C1111 A-3	* C1512 G-16	* C3111 G-12	C3611 C-6	* C4445 F-12	* C5709 A-17	C6002 C-5	* D7001 E-11
* C1301 B-10	C1513 F-3	* C3112 F-13	C3612 C-6	* C4501 D-11	* C5710 A-16	C6003 D-5	
* C1302 B-10	C1514 F-3	* C3113 G-12	C3614 C-6	* C4502 D-11	* C5711 A-16	C6004 C-5	F4001 C-9
* C1303 B-10	C1515 F-3	* C3114 G-12	C3615 C-6	* C4503 E-11	* C5712 A-16	C6005 C-5	F4002 C-7
* C1304 B-10	C1516 F-3	* C3115 F-14	C3616 C-6	* C4504 D-11	* C5713 B-17	C6006 A-5	F4003 D-7
* C1305 B-10	C1517 E-3	* C3116 G-12	C3617 C-7	* C4505 D-11	* C5714 B-16	C6007 A-5	F4004 C-7
* C1306 A-10	C1518 E-3	* C3117 F-14	C3618 C-7	* C4506 D-11	* C5715 B-17	C6008 A-4	F4005 D-8
* C1307 B-10	C1519 E-3	* C3119 G-14	C3619 C-7	* C4507 D-11	* C5716 A-16	C6015 C-6	F4006 C-8
* C1308 B-10	C1520 E-3	* C3120 F-14	C3620 C-7	* C4509 E-11	* C5717 B-17	C6017 A-4	
* C1309 A-10	C1521 E-4	C3121 F-5	C3622 C-6	* C4510 C-11	* C5718 B-15	C6021 A-4	FB1101 E-7
* C1310 B-10	C1522 E-4	C3122 F-5	C3626 C-7	* C4511 E-12	* C5719 A-17	* C7001 E-11	FB1102 B-5
* C1311 A-11	C1523 E-3	C3123 F-4	C3629 C-7	* C4512 C-12	* C5720 B-15	* C7002 E-11	* FB1301 C-11
* C1312 B-11	C1524 F-4	C3124 F-4	C3631 D-6	* C4514 D-12	* C5721 B-16	* C7003 E-11	FB1402 E-6
* C1313 A-11	C1525 F-3	C3126 F-5	C3633 D-6	* C4516 C-12	* C5722 B-17	* C7004 E-11	FB1403 D-6
* C1314 B-11	C1551 C-2	C3127 F-5	C3634 D-6	* C4517 D-12	* C5723 B-15	* C7005 E-11	* FB1501 G-15
* C1315 A-11	* C1552 D-17	C3128 G-4	C3701 A-3	* C4518 D-12	* C5724 B-17	* C7006 E-11	FB1504 F-4
* C1316 B-11	C1554 C-2	C3129 G-4	C3704 B-2	* C4519 D-12	* C5725 B-16	* C7008 E-12	FB1506 F-3
* C1317 B-11	C1556 C-2	C3131 F-5	C3705 B-2	* C4520 D-12	* C5728 B-16	* C7009 E-11	* FB2202 E-15
* C1318 B-11	* C1558 C-17	C3133 F-5	C3707 B-2	* C4526 D-13	* C5730 B-16	* C7010 E-11	* FB2204 E-15
* C1319 B-11	* C1559 C-17	C3134 F-6	C3709 B-2	* C4527 D-12	* C5731 B-16	* C7011 E-10	* FB2205 E-15
* C1321 B-12	* C1560 D-17	C3135 F-6	C3710 B-2	* C4528 D-12	* C5732 B-17	* C7012 E-11	* FB2291 C-15
* C1323 B-12	* C1561 D-16	C3136 F-6	C3712 B-3	* C4529 D-7	* C5733 B-16	* C7013 E-10	FB3303 D-8
* C1324 B-11	* C1562 D-17	* C3137 G-15	C3714 B-3	* C4701 C-14	* C5734 B-17	* C7014 E-12	FB3304 B-6
* C1326 B-12	* C1563 D-16	C3138 F-5	C3715 B-3	* C4702 B-13	* C5735 B-16	* C7015 F-11	FB3307 E-8
* C1327 A-12	* C1564 D-17	C3139 G-6	C3716 B-3	* C4703 B-13	* C5736 B-16	* C7016 F-10	FB3601 D-6
C1328 B-8	* C1565 C-17	C3140 F-5	C3717 B-1	* C4706 A-13	* C5737 B-17	* C7017 F-10	FB3701 B-3
* C1329 B-12	* C1567 D-17	* C3141 G-14	C3719 B-3	* C4707 A-13	* C5738 B-16	* C7018 F-11	* FB4501 D-11
* C1330 B-12	* C1568 C-17	* C3142 G-14	C3723 B-3	* C4708 A-13	* C5739 B-17	* C7019 F-11	* FB4701 C-13
* C1331 A-12	C1569 C-2	* C3143 G-14	C3724 B-3	* C4709 A-13	* C5740 C-16	C7020 F-6	* FB4801 C-14
* C1332 B-11	* C1570 D-17	* C3144 G-14	C3728 C-2	* C4710 A-13	* C5741 C-16	C7021 E-6	FB4901 B-5
* C1333 B-13	* C1571 C-17	* C3202 F-15	C3729 C-2	* C4711 A-15	* C5742 C-16	C7022 E-6	FB4902 C-5
* C1334 C-12	* C1572 D-17	* C3203 G-14	C3730 C-2	* C4712 A-13	* C5743 C-16	C7023 E-6	FB4903 C-3
* C1335 C-12	* C1573 D-17	* C3205 F-15	C3731 C-2	* C4713 A-13	* C5744 C-16		FB5101 C-4
* C1336 B-13	C2002 A-1	* C3206 F-15	C3734 C-3	* C4714 A-13	* C5745 C-16	* CN1101 E-16	FB5102 C-5
C1337 A-8	* C2003 A-1	* C3210 F-14	C3735 C-2	* C4715 C-15	* C5746 C-16	* CN1103 A-1	FB6001 C-5
C1338 B-8	C2005 A-2	* C3213 F-14	C3736 B-1	* C4716 C-12	* C5747 C-16	* CN1104 A-3	FB6002 D-6
* C1339 C-13	C2006 A-1	* C3215 F-14	C3737 C-1	* C4719 C-13	* C5748 C-16	* CN1105 D-6	FB6003 B-6
* C1340 B-13	C2007 A-2	* C3216 F-14	C4001 C-8	* C4720 B-15	* C5749 C-16	* CN1106 B-3	* FB7001 E-12
* C1341 C-13	C2008 A-1	* C3217 F-14	C4002 C-8	* C4721 C-13	* C5750 D-16	* CN1107 E-9	* FB7002 E-10
C1342 B-8	C2009 A-2	C3301 D-7	C4003 D-9	* C4723 C-15	* C5751 C-16	* CN1108 E-10	
* C1343 B-13	C2010 B-2	C3302 B-6	C4004 C-7	* C4724 C-14	* C5752 C-16	* CN1109 C-9	* IC1301 B-11
* C1344 B-12	C2012 A-3	C3303 E-8	C4005 D-7	* C4725 C-14	* C5753 C-16	* CN1110 A-5	IC1303 A-9
* C1345 B-13	C2014 A-2	C3305 E-7	C4006 C-7	* C4726 C-14	* C5754 C-17	* CN1501 F-4	* IC1305 C-12
* C1347 A-13	C2015 A-2	C3306 D-8	* C4008 D-10	* C4727 A-14	* C5755 C-17	* CN1551 C-3	IC1401 E-5
* C1348 A-13	* C2201 E-12	C3307 E-7	* C4009 C-10	* C4801 C-14	* C5756 C-17	* CN3101 G-5	IC1402 F-5
* C1350 A-11	* C2202 E-12	C3308 E-7	* C4401 G-11	* C4804 C-14	* C5757 C-17	* CN4001 C-8	* IC1501 F-15
* C1352 A-11	* C2204 E-12	C3309 E-8	C4402 G-3	* C4806 C-14	* C5758 B-15	* CN4401 E-8	IC1502 F-4
* C1354 A-11	* C2208 E-13	C3310 E-7	* C4403 G-12	* C4808 B-13	* C5759 B-16	* CN4402 G-7	* IC1552 C-17
* C1355 C-11	* C2210 F-13	C3311 E-8	* C4404 G-11	* C4809 B-13	* C5760 B-16	* CN4403 G-6	* IC1553 D-16
* C1356 C-11	* C2211 E-13	C3312 E-7	* C4405 G-11	* C4904 B-3	* C5761 A-16	* CN4404 G-3	IC2001 A-2
C1357 B-9	* C2212 E-13	C3313 E-7	* C4406 G-11	* C4906 B-4	* C5806 A-18	CN7001 F-6	* IC2201 D-14
C1359 A-8	* C2213 F-13	C3314 E-7	* C4407 G-11	* C4907 B-4	* C5807 A-18		* IC2291 D-15
* C1361 A-12	* C2214 F-15	C3315 E-8	* C4408 G-10	* C4908 B-4	* C5808 B-18	* D1101 E-16	* IC3101 F-13
C1362 A-8	* C2215 F-14	C3316 E-9	* C4409 F-13	* C4909 B-5	* C5809 B-18	* D1103 E-16	IC3103 F-5
* C1365 C-12	* C2222 F-14	C3317 F-7	* C4410 G-4	* C4910 B-4	* C5810 A-18	* D1104 E-16	* IC3201 F-14
* C1366 C-12	* C2223 F-14	C3318 F-7	* C4411 F-13	* C4911 B-4	* C5812 A-18	* D1105 F-16	* IC3202 F-14
* C1367 C-10	* C2224 F-13	C3319 F-7	* C4412 G-12	* C4912 A-3	* C5813 B-18	* D1106 E-16	IC3301 E-7
* C1368 C-11	* C2226 F-13	C3320 F-7	* C4413 G-12	* C4913 B-4	* C5814 B-18	D1107 A-3	IC3303 B-5
C1401 F-4	* C2227 F-13	C3322 F-7	* C4414 G-3	* C4916 B-5	* C5815 B-18	D1109 A-4	IC3603 C-6
C1402 E-4	* C2229 F-13	C3323 F-7	* C4415 G-10	* C4917 B-5	* C5816 B-18	D1112 D-7	IC3701 B-2
C1403 D-4	* C2230 E-13	C3324 E-8	* C4416 G-10	* C4918 B-4	* C5817 A-18	D1115 A-4	* IC4401 F-12
C1404 E-4	* C2231 E-13	C3325 D-8	* C4417 G-12	* C4919 B-4	* C5818 A-17	D1116 D-6	IC4402 F-6
C1407 D-5	* C2232 E-15	C3326 E-8	* C4418 G-10	* C4921 C-4	* C5819 B-18	* D1117 C-13	* IC4501 D-12
C1408 D-5	* C2233 F-15	C3327 F-7	* C4419 G-12	* C4922 C-4	* C5820 B-18	* D1118 B-18	* IC4502 D-13
C1409 E-5	* C2234 E-13	C3328 F-7	* C4420 G-10	* C4925 C-3	* C5821 A-18	D1301 B-8	* IC4701 C-13
C1411 E-5	* C2235 E-13	C3329 B-6	* C4421 G-12	* C4926 B-3	* C5822 A-18	D1302 A-8	* IC4703 C-15
C1412 E-5	* C2236 E-15	C3331 B-6	* C4424 F-13	* C4927 C-3	* C5823 B-18	D1306 A-8	* IC4801 B-14
C1413 E-5	* C2238 E-15	C3332 B-6	* C4425 F-11	* C4928 B-5	* C5824 A-18	* D1307 B-12	* IC4802 C-15
C1414 E-5	* C2240 E-15	C3333 B-5	* C4426 F-11	* C4929 C-3	* C5825 B-18	* D1501 G-16	IC4901 B-4
C1416 D-5	* C2242 D-13	C3335 B-5	* C4427 F-11	* C4930 B-4	* C5826 A-17	D1551 C-2	IC4903 B-3
C1418 D-6	* C2243 C-14	C3337 B-5	* C4428 F-12	* C4931 B-3	* C5827 B-18	* D2201 E-13	IC4905 B-4
C1419 E-5	* C2244 E-15	C3338 B-6	* C4429 F-12	* C5003 A-14	* C5829 B-18	* D2202 E-13	IC4906 C-3
C1422 D-6	* C2247 E-13	C3339 F-7	* C4430 F-12	* C5102 C-4	* C5830 A-17	D3301 E-6	IC4907 C-3
C1423 D-5	* C2250 E-15	C3340 F-8	* C4431 F-12	* C5104 C-5	* C5832 A-17	D3302 F-6	* IC5001 B-14
* C1501 F-15	* C2251 D-13	C3341 F-8	* C4432 F-11	* C5105 D-5	* C5833 A-17	D3303 E-8	IC5101 D-4

— Continued on next page —

(Page 4-82)

no mark : side A  
 \* mark : side B

## VC-276 BOARD

IC5102 D-5	* Q1323 A-11	* R1140 B-18	* R1570 D-17	R3320 E-7	* R4462 F-11	R4949 C-3	* R7001 E-11
* IC5701 B-16	* Q1324 C-11	R1141 B-5	* R1571 D-17	R3321 F-8	R4463 G-6	R4950 C-9	* R7002 E-11
* IC5702 C-16	* Q1327 A-12	R1142 A-5	* R1572 D-17	R3322 E-7	* R4501 D-11	R4951 C-4	* R7003 E-11
* IC5801 A-18	* Q1328 A-11	R1143 A-4	* R1573 C-17	R3323 E-8	* R4502 D-11	R4952 C-4	* R7006 E-10
IC6001 C-5	* Q1329 A-11	R1145 A-4	* R1574 C-17	R3324 E-8	* R4505 D-11	R4953 C-3	* R7007 E-11
IC6002 A-5	* Q1330 C-11	* R1301 B-10	* R1575 C-17	R3325 E-8	* R4507 E-11	R4954 B-3	* R7008 E-11
* IC7001 E-11	* Q1333 A-8	* R1302 B-10	* R1576 C-17	R3327 F-7	* R4510 E-11	R4955 B-4	* R7009 E-11
* IC7002 E-12	* Q1335 C-10	* R1303 B-10	* R1577 C-17	R3328 F-7	* R4516 E-12	R4956 B-4	* R7010 E-12
IC7005 E-6	* Q1337 C-11	* R1304 B-11	R1578 C-3	R3332 F-8	* R4520 E-12	R4957 B-5	* R7011 E-12
L1301 B-7	Q1402 D-5	* R1306 A-10	R2001 A-1	R3334 F-7	* R4525 C-12	R4958 B-4	* R7012 E-11
L1302 A-7	Q1551 C-2	* R1307 B-10	R2003 A-1	R3338 F-7	* R4526 E-12	R4959 B-4	* R7013 E-11
L1303 B-7	* Q1554 C-17	* R1309 B-10	R2004 A-2	R3340 F-7	* R4527 C-12	R4960 B-4	* R7019 F-11
L1304 B-7	Q1555 C-2	* R1311 A-10	R2005 A-2	R3351 F-8	* R4531 D-12	R4964 B-3	* R7021 F-11
L1305 A-7	* Q2207 E-13	* R1312 B-11	R2006 A-2	R3356 F-8	* R4532 E-12	R4965 B-4	* R7022 F-11
* L1306 B-12	* Q3102 G-12	* R1313 A-11	R2007 A-2	R3358 F-8	* R4534 D-12	R4966 B-4	* R7023 F-11
* L1307 B-12	* Q3103 G-4	* R1314 B-11	R2008 A-2	R3360 F-8	* R4535 D-12	R4967 B-4	* R7026 F-11
* L1308 B-12	Q3104 F-5	* R1317 A-12	R2010 A-3	R3361 B-6	* R4536 D-12	* R5010 C-14	* R7037 E-11
* L1309 B-12	* Q3107 G-15	* R1318 A-12	* R2205 E-13	R3364 B-6	* R4537 D-12	* R5013 C-14	* R7038 E-11
* L1310 C-12	* Q3109 G-14	R1319 A-8	* R2206 E-12	R3367 B-5	* R4538 E-12	* R5015 C-14	R7039 F-6
* L1313 B-12	Q3111 F-5	R1320 A-8	* R2209 E-13	R3368 B-5	* R4539 C-12	* R5019 B-15	R7040 E-6
* L1314 C-12	Q3116 G-5	* R1321 A-12	* R2210 E-13	R3369 B-6	* R4540 D-12	* R5020 A-14	R7042 E-6
* L1315 C-12	Q3117 F-6	* R1322 A-12	* R2213 E-12	R3370 B-6	* R4541 C-12	* R5021 A-14	R7043 E-6
* L1316 C-12	Q3118 F-4	* R1323 A-11	* R2215 F-13	R3371 B-6	* R4542 D-12	R5104 C-4	R7044 F-6
L1317 B-7	* Q3119 G-14	* R1326 B-11	* R2216 E-13	R3372 B-5	* R4543 D-12	* R5707 A-16	R7045 F-6
* L1318 A-12	* Q3120 G-14	* R1327 A-11	* R2218 E-13	R3394 F-7	* R4553 D-11	* R5708 A-16	* R7046 E-12
L1401 D-6	* Q3201 F-15	* R1330 A-11	* R2219 E-12	R3397 F-8	* R4554 C-12	* R5709 A-17	
L1501 F-4	Q3305 F-7	* R1331 A-11	* R2220 F-13	R3398 F-8	* R4555 E-11	* R5710 A-17	RB3101 F-6
* L1551 D-16	Q3306 F-7	* R1332 A-11	* R2221 F-13	R3607 B-6	* R4556 E-11	* R5711 A-16	* RB3102 G-14
L1552 C-3	Q3309 F-8	* R1333 A-11	* R2222 F-13	R3611 B-6	* R4558 E-11	* R5712 A-16	RB3301 F-7
* L1553 D-17	Q3310 F-7	* R1334 A-11	* R2223 F-13	R3617 C-6	* R4559 E-11	* R5714 A-17	RB3701 A-2
L2001 A-2	Q3602 C-6	* R1335 C-11	* R2224 F-15	R3622 C-7	* R4561 C-11	* R5715 A-17	RB3702 A-2
* L2202 E-15	Q4001 D-9	* R1336 A-11	* R2225 F-15	R3721 B-2	* R4562 D-7	* R5717 B-15	RB3703 C-2
* L2204 D-12	Q4002 D-8	* R1337 C-11	* R2240 F-13	R3722 B-2	* R4701 A-15	* R5718 B-15	* RB4501 C-13
* L2207 E-13	Q4003 D-8	* R1338 A-11	* R2242 E-13	R3724 B-3	* R4703 C-14	* R5719 B-15	* RB4502 C-11
* L2208 E-15	Q4004 D-7	* R1339 A-11	* R2243 E-13	R3726 C-2	* R4706 B-13	* R5720 B-17	* RB4503 C-12
* L2209 E-15	* Q4005 C-11	* R1340 A-11	* R2244 E-15	R4001 C-8	* R4707 B-13	* R5721 B-17	* RB4703 A-15
* L2291 D-15	* Q4006 D-10	* R1341 C-12	* R2245 E-15	R4003 C-8	* R4708 C-14	* R5724 C-16	* RB4705 B-13
* L3102 F-14	* Q4007 C-10	* R1342 C-12	* R2247 D-13	R4004 D-8	* R4710 A-15	* R5725 C-16	* RB4706 A-13
* L3103 G-12	* Q4008 D-10	* R1343 C-12	* R2248 D-13	R4006 D-9	* R4711 B-13	* R5730 C-16	* RB4707 A-15
L3104 F-6	* Q4009 C-10	* R1347 A-12	* R2255 D-13	R4007 D-9	* R4712 B-13	* R5731 C-17	* RB4708 B-13
L3105 F-6	* Q4010 C-11	* R1348 A-12	* R3103 G-12	R4008 D-8	* R4717 A-15	* R5732 C-17	* RB4709 A-15
L3106 F-6	* Q4011 C-11	R1369 A-8	* R3104 G-12	R4009 D-8	* R4720 C-15	* R5733 C-17	* RB4710 A-15
* L3201 G-14	Q4401 G-3	R1370 A-8	* R3107 G-14	R4010 D-7	* R4722 C-12	* R5742 A-16	* RB4711 B-13
L3303 E-7	* Q4402 F-11	* R1374 B-10	* R3108 F-14	* R4011 C-10	* R4725 B-15	* R5743 A-16	* RB4801 C-15
L3304 E-8	* Q4501 D-12	* R1379 C-10	* R3109 F-14	* R4012 C-10	* R4726 C-16	* R5744 B-15	* RB4802 C-15
L3305 F-7	* Q4701 C-16	* R1380 C-10	* R3110 F-14	* R4013 D-10	* R4729 A-14	* R5745 B-15	RB4901 B-3
L3306 F-7	* Q4702 A-14	* R1381 C-11	* R3111 G-14	* R4014 D-11	* R4730 C-14	* R5746 B-16	RB7001 E-6
L3307 B-6	* Q4704 A-14	* R1382 C-10	R3114 G-4	* R4015 C-10	* R4731 A-14	* R5747 B-16	RB7002 E-6
L3601 B-6	* Q4801 C-14	* R1383 C-10	R3115 F-4	* R4016 C-11	* R4733 C-14	* R5748 B-15	RB7003 E-5
L3602 B-6	* Q4901 C-4	* R1384 C-10	R3117 F-4	* R4017 C-11	* R4736 C-13	* R5749 B-16	RB7004 E-5
L3701 B-3	Q4902 B-3	* R1385 C-10	R3118 F-4	* R4018 C-11	* R4737 A-14	* R5801 B-18	* RB7005 F-11
L3705 C-3	Q4903 B-3	* R1386 C-12	R3119 F-4	* R4019 C-11	* R4738 A-13	* R5802 B-18	
L4001 C-7	* Q5001 C-14	* R1387 C-11	R3120 F-4	R4021 D-8	* R4739 A-13	* R5803 A-18	T1301 B-8
L4901 A-3	* Q5708 A-16	R1401 D-5	R3121 F-4	R4401 G-6	* R4740 A-13	* R5805 A-18	
* L5701 C-16	* Q5716 B-15	R1402 D-5	R3122 F-4	R4402 G-6	* R4742 C-13	* R5806 A-18	VDR112 A-3
* L5803 A-17	* Q5717 A-16	R1404 D-5	R3125 G-5	R4405 G-6	* R4743 C-13	* R5807 A-18	VDR113 A-3
L6001 A-5	* Q5718 A-16	R1409 D-5	R3127 F-6	R4407 G-3	* R4744 B-13	* R5809 A-18	VDR114 A-3
* L7001 E-11	Q7001 F-6	R1410 E-6	* R3128 G-15	* R4408 G-11	* R4745 B-13	* R5814 B-18	VDR115 A-4
* L7002 F-11	Q7002 F-6	R1415 D-6	R3129 G-5	* R4409 G-12	* R4746 B-13	* R5815 A-18	VDR116 A-3
LF1101 A-4	* R1101 E-16	R1419 E-5	R3131 G-5	* R4410 G-12	* R4747 B-13	* R5816 B-18	VDR492 B-4
LF1102 A-4	* R1102 E-16	R1420 E-5	R3132 F-5	R4411 G-3	* R4811 A-15	* R5817 A-18	
LF4001 C-8	* R1103 E-16	* R1503 F-15	R3133 G-5	R4414 G-4	* R4820 C-14	* R5818 B-18	X1501 G-16
	* R1104 E-16	* R1509 F-15	R3136 F-5	* R4417 G-10	* R4827 B-13	* R5819 A-17	X3301 E-6
Q1101 E-6	* R1105 F-16	* R1512 G-16	R3137 F-5	* R4424 F-11	* R4838 B-13	* R5821 B-18	X4501 D-11
Q1102 D-7	R1107 A-4	R1521 F-3	R3138 F-5	* R4425 F-13	* R4841 C-13	* R5822 B-18	X4801 C-14
Q1103 B-5	R1108 A-4	* R1523 G-15	R3143 F-5	* R4426 F-13	* R4842 C-14	* R5823 A-17	X4802 C-13
Q1104 A-5	R1109 D-7	* R1524 G-15	R3144 G-5	* R4427 F-11	* R4843 A-13	* R5824 A-17	X4901 B-4
Q1105 A-6	R1111 E-6	* R1525 G-15	* R3205 F-14	* R4428 F-13	R4918 B-4	* R5825 B-17	X5001 C-14
Q1106 B-5	R1112 D-7	R1551 C-2	* R3206 F-15	* R4429 F-13	R4919 B-4	* R5826 B-17	X6001 D-5
Q1301 B-8	R1114 B-5	R1552 C-3	* R3210 F-14	* R4430 F-11	R4923 B-4	* R5827 A-17	
* Q1302 B-12	* R1119 D-12	R1555 D-3	* R3212 F-14	* R4431 F-11	R4924 B-4	* R5828 B-17	
* Q1303 A-11	* R1120 D-12	R1556 C-2	* R3213 F-14	* R4432 F-11	R4925 B-5	* R5829 A-17	
* Q1304 A-12	R1121 A-6	R1557 D-2	* R3214 F-14	* R4434 F-12	R4927 B-4	* R5830 A-17	
* Q1305 B-12	R1122 A-6	R1560 C-2	* R3215 F-15	* R4435 F-12	R4929 B-4	* R5831 A-17	
* Q1306 B-11	R1123 A-6	* R1561 D-7	R3307 E-7	* R4436 F-11	R4933 B-4	* R5834 A-17	
* Q1307 A-12	R1124 A-6	* R1562 D-7	R3310 E-6	R4447 G-3	R4934 B-5	* R5846 A-17	
* Q1308 A-12	* R1128 D-12	* R1563 C-17	R3311 E-6	R4448 G-3	R4936 B-5	* R5847 A-18	
* Q1309 B-11	* R1129 D-12	* R1564 C-17	R3312 E-7	R4449 G-7	R4939 C-4	R6001 D-5	
* Q1311 A-12	R1130 C-3	* R1565 D-7	R3315 F-7	R4450 F-7	R4943 C-3	R6002 C-5	
* Q1312 A-12	R1131 D-6	* R1566 C-17	R3316 F-8	R4451 F-7	R4944 C-3	R6003 C-5	
Q1314 A-8	R1132 B-1	R1567 D-7	R3317 F-8	R4452 G-7	R4945 C-3	R6009 A-4	
* Q1316 A-11	R1136 B-3	* R1568 D-7	R3318 E-8	R4453 F-6	R4946 C-3	R6020 D-5	
* Q1321 A-11	R1137 C-3	* R1569 C-17	R3319 E-8	* R4461 F-11	R4948 C-4	R6021 D-5	

## 6. REPAIR PARTS LIST

### 6-2. ELECTRICAL PARTS LIST

~~////~~ Changed portion. ~~█~~ Deleted portion. ~~↑~~ Added portion.

Page	Before change (-11/-21)							After change (-12/-22)						
	Ref. No.	Part No.	Description					Ref. No.	Part No.	Description				
6-16		A-7012-079-A	VC-276 (QPAO) BOARD, COMPLETE (SERVICE)	*****					A-7012-079-A	VC-276 (QPAO) BOARD, COMPLETE (SERVICE)	*****			
			< CAPACITOR >							< CAPACITOR >				
	C3634	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3634	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V		
	C3701	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C3704	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V		
	C3704	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C3705	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V		
	C3705	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V								
	C3706	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V								
	C3707	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C3707	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V		
	C3708	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V								
	C3709	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C3709	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V		
	C3710	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C3710	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V		
	C3711	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V								
	C3712	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C3712	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V		
6-18		< DIODE >						< DIODE >						
	D1109	8-719-056-85	DIODE	UDZSTE-178.2B			D1109	8-719-056-85	DIODE	UDZSTE-178.2B				
	D1110	8-719-062-16	DIODE	01ZA8.2(TPL3)			D1110	8-719-062-16	DIODE	01ZA8.2(TPL3)				
	D1111	8-719-062-16	DIODE	01ZA8.2(TPL3)			D1111	8-719-062-16	DIODE	01ZA8.2(TPL3)				
	D1115	8-719-046-85	DIODE	MA2S728-(K8).SO			D1115	8-719-073-01	DIODE	MA728-(K8).SO	~~~~~			
	D1117	8-719-073-01	DIODE	MA111-(K8).SO			D1117	8-719-073-01	DIODE	MA111-(K8).SO				
		< IC >						< IC >						
	IC3301	8-759-650-63	IC	CAIN-CSP			IC3301	8-759-650-63	IC	CAIN-CSP				
	IC3303	6-700-553-38	IC	SN104266BGGM-TEB			IC3303	6-700-553-01	IC	SN104266BGGM-TEB				
	IC3603	6-701-682-01	IC	MB87L4261PFV-G-BND-ER			IC3603	6-701-682-01	IC	MB87L4261PFV-G-BND-ER	~~~~~			
6-19	IC4502	8-759-593-47	IC	AK6417AM-E2			IC4502	8-759-593-47	IC	AK6417AM-E2				
	IC4701	8-759-830-75	IC	BD4181FV-E2			IC4701	6-702-096-01	IC	BD4201FV-E2	~~~~~			
	IC4703	8-759-642-45	IC	TL1596CPWR			IC4703	8-759-642-45	IC	TL1596CPWR				
	IC6002	6-701-691-01	IC	AK5355VT-E2			IC6002	6-701-691-01	IC	AK5355VT-E2				
	IC7001	8-752-100-95	IC	CXA3289AR-T4			IC7001	8-752-109-09	IC	CXA3289BR-T4	~~~~~			
	IC7002	8-752-405-57	IC	CXD3501AR-T4			IC7002	8-752-405-57	IC	CXD3501AR-T4				
		< TRANSISTOR >						< TRANSISTOR >						
	Q3602	8-759-054-48	TRANSISTOR	UP04601008S0			Q3602	8-759-054-48	TRANSISTOR	UP04601008S0				
	Q3701	8-729-052-66	TRANSISTOR	2SC4617HT2L										
	Q3702	8-729-052-59	TRANSISTOR	DTA144EHT2L										
6-20	Q3703	8-759-054-50	TRANSISTOR	UP04501008S0										
	Q4001	8-729-047-68	TRANSISTOR	SSM3K03FE(TPL3)			Q4001	8-729-047-68	TRANSISTOR	SSM3K03FE(TPL3)				
		< RESISTOR >						< RESISTOR >						
	R1137	1-218-953-11	RES-CHIP	1K	5%	1/16W	R1137	1-218-953-11	RES-CHIP	1K	5%	1/16W		
	R1140	1-218-949-11	RES-CHIP	470	5%	1/16W	R1140	1-218-949-11	RES-CHIP	470	5%	1/16W		
	R1141	1-218-990-11	SHORT	0			R1141	1-218-990-11	SHORT	0				
	R1301	1-218-969-11	RES-CHIP	22K	5%	1/16W	R1301	1-218-969-11	RES-CHIP	22K	5%	1/16W		
	R1302	1-218-971-11	RES-CHIP	33K	5%	1/16W	R1302	1-218-971-11	RES-CHIP	33K	5%	1/16W		

 Deleted portion.

Page	Before change (-11/21)						After change (-12/22)					
	Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
< RESISTOR >												
6-21	R3617	1-218-951-11	RES-CHIP	680	5%	1/16W	R3617	1-218-951-11	RES-CHIP	680	5%	1/16W
	R3622	1-218-949-11	RES-CHIP	470	5%	1/16W	R3622	1-218-949-11	RES-CHIP	470	5%	1/16W
	R3701	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R3701	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
	R3702	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						
	R3704	1-218-941-81	RES-CHIP	100	5%	1/16W						
	R3705	1-218-981-11	RES-CHIP	220K	5%	1/16W						
	R3706	1-218-953-11	RES-CHIP	1K	5%	1/16W						
	R3708	1-218-953-11	RES-CHIP	1K	5%	1/16W						

## Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2002.02	Official Release	—	—
1.1	2003.05	Supplement-1	VC-276 board part No. suffix is changed.	No.