

# DCR-TRV238E/TRV239E

RMT-814

## SERVICE MANUAL

Level 3

Ver 1.0 2002. 02

*Self Diagnosis*  
Supported model

### Digital 8

Digital Handycam



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
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS	CD-357 BOARD
	LB-076 BOARD
	SI-032 BOARD
	PD-156 BOARD
	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.

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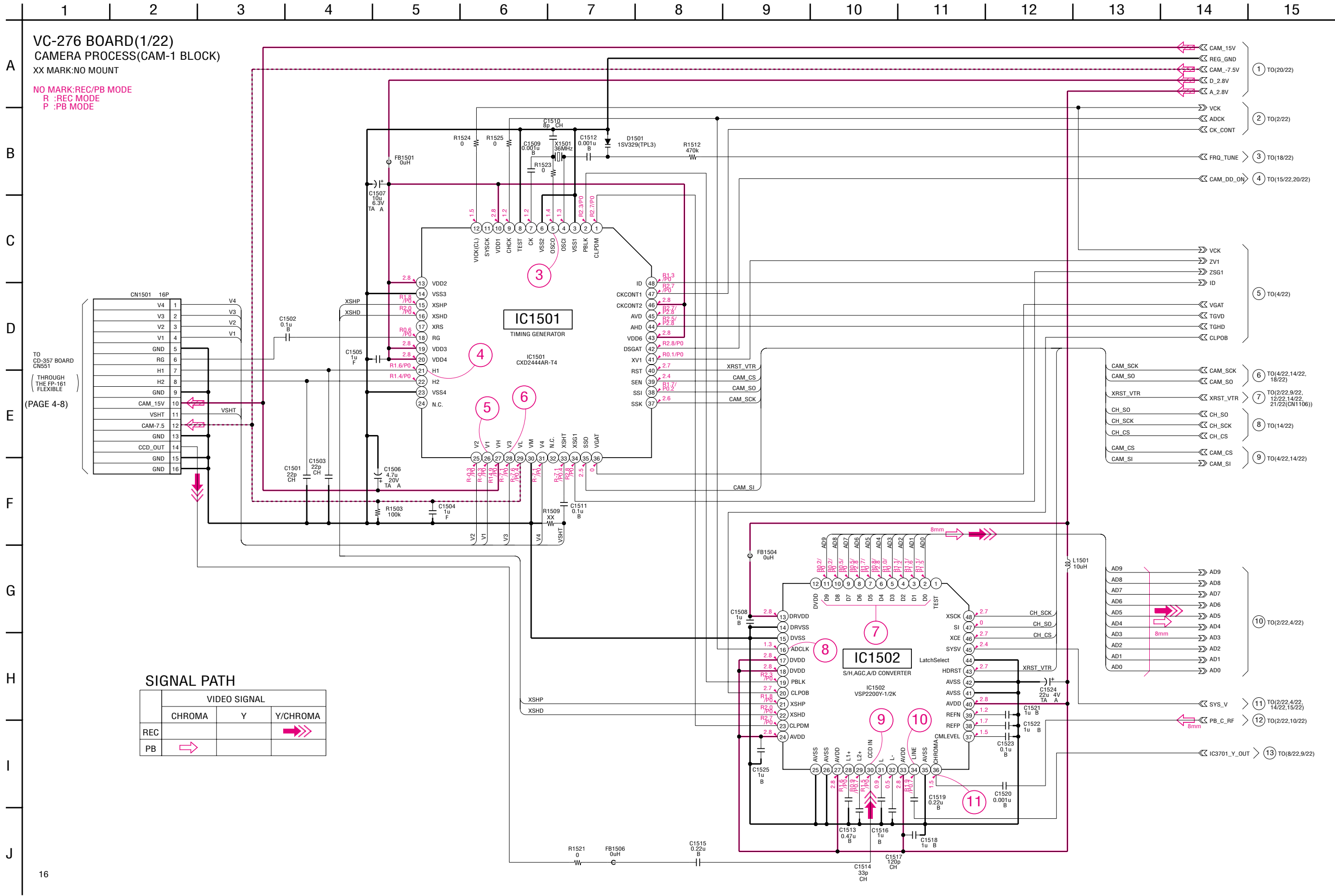
**SECTION 4**  
**PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS**



4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

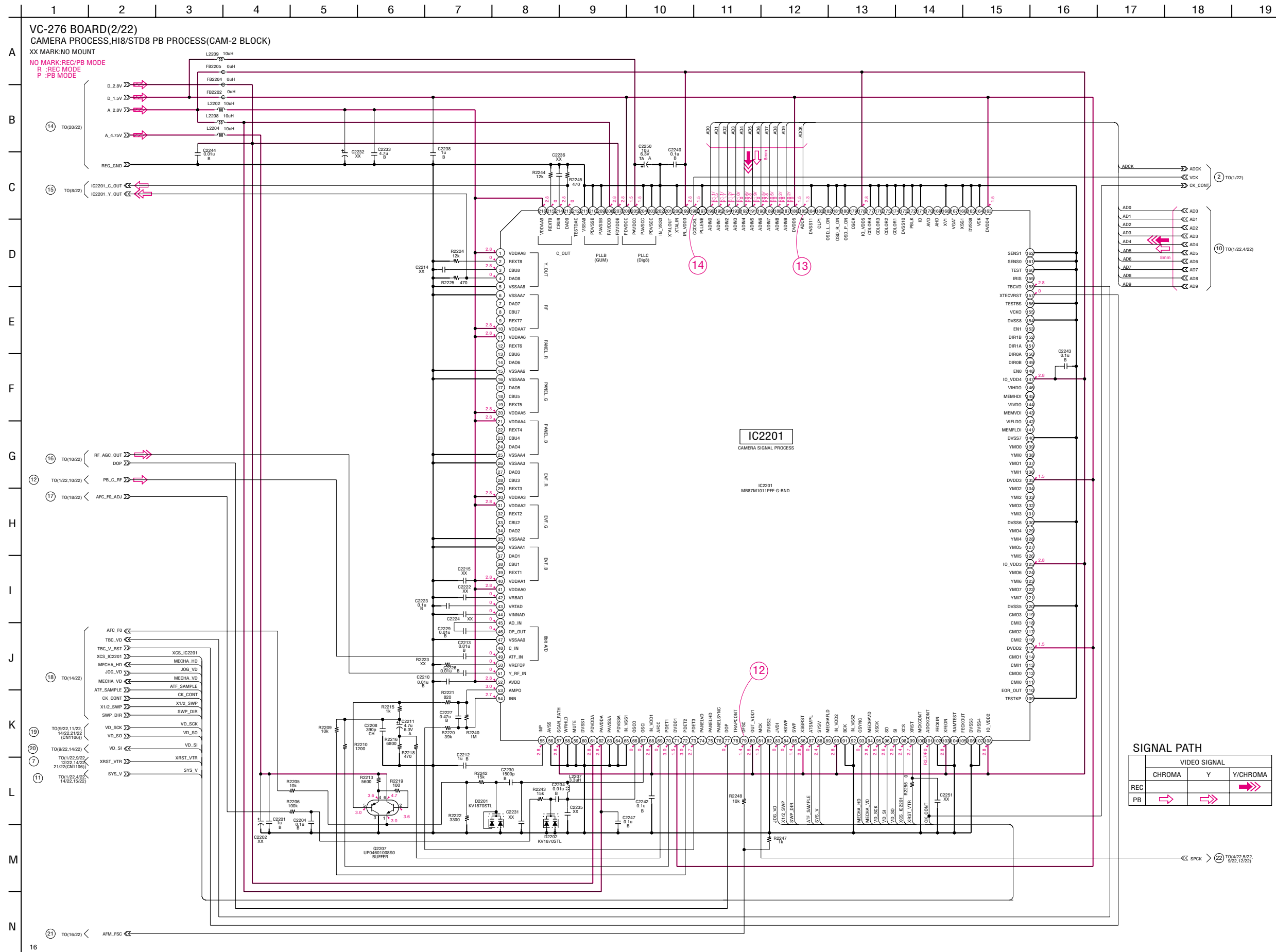
For Schematic Diagram

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

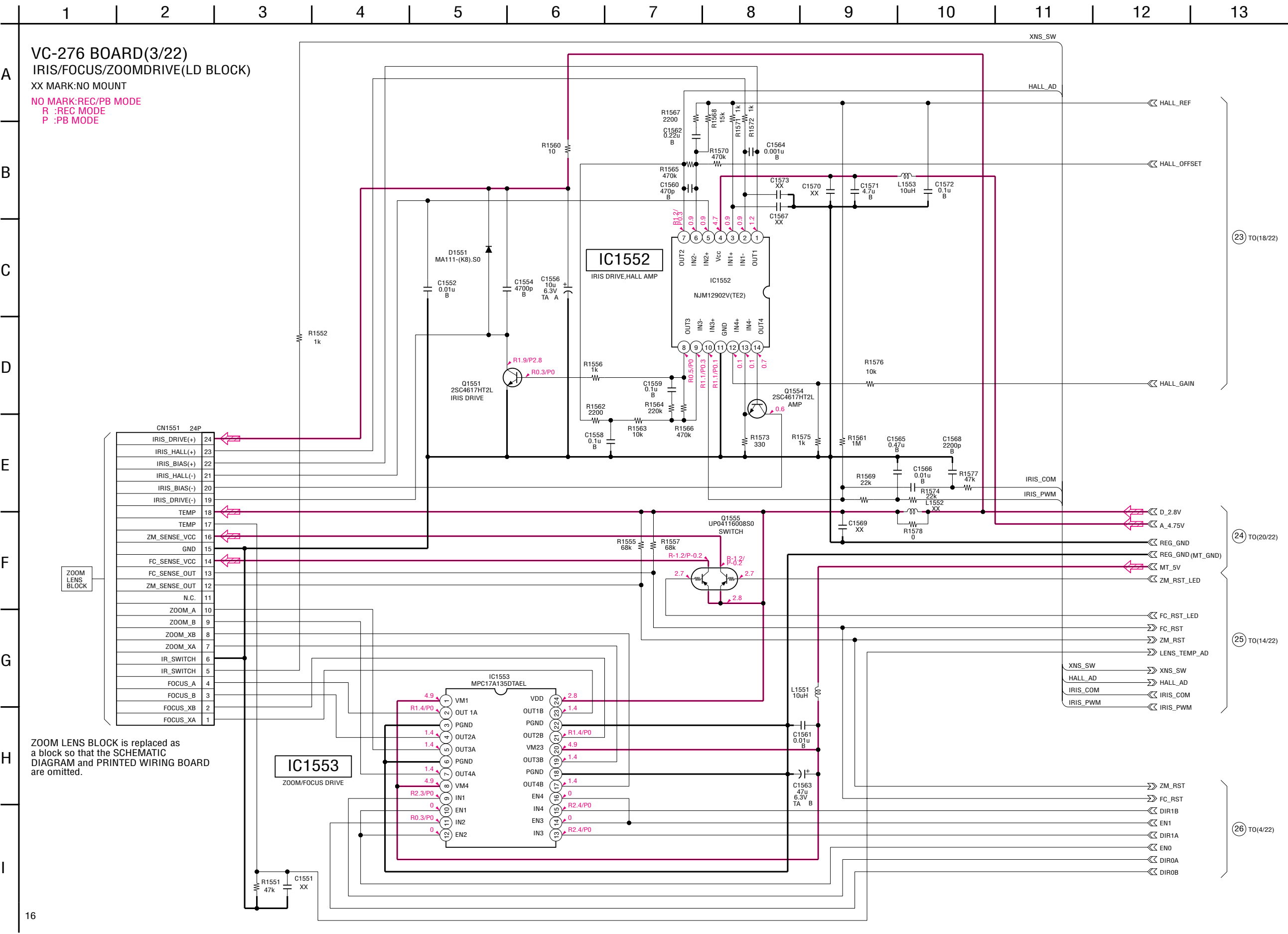


## For Schematic Diagram

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

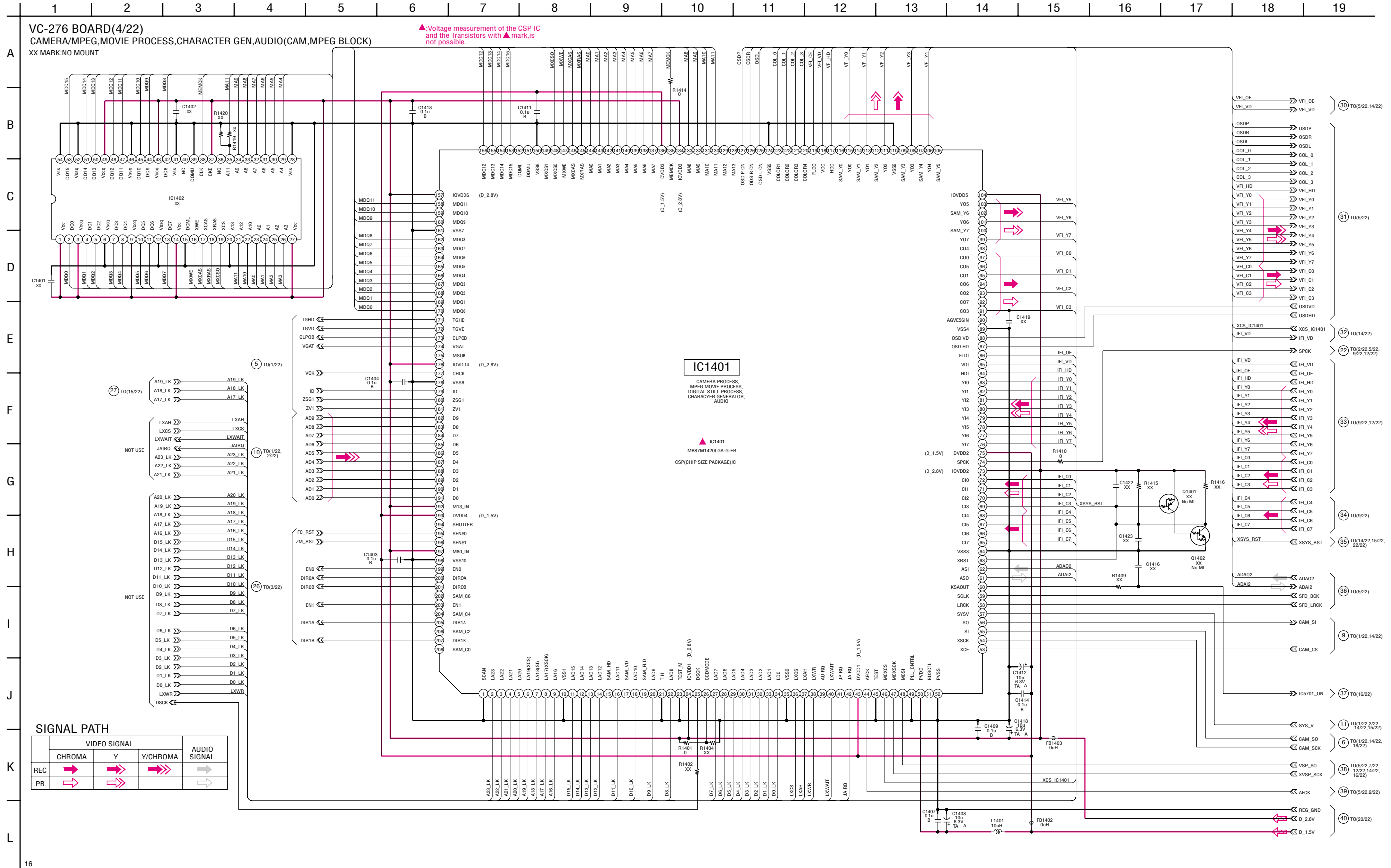


For Schematic Diagram  
• Refer to page 4-73 for printed wiring board.



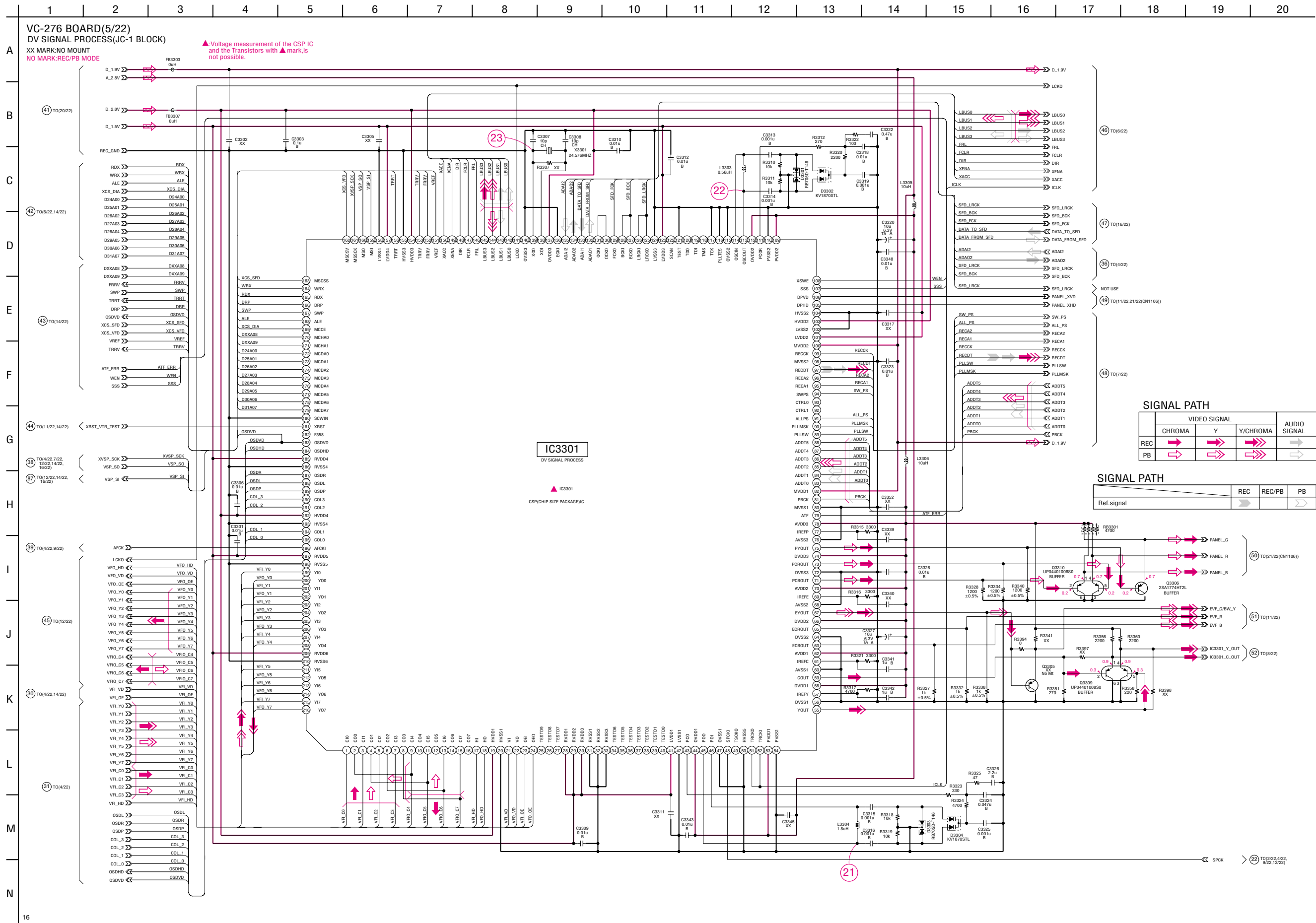
**For Schematic Diagram**

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



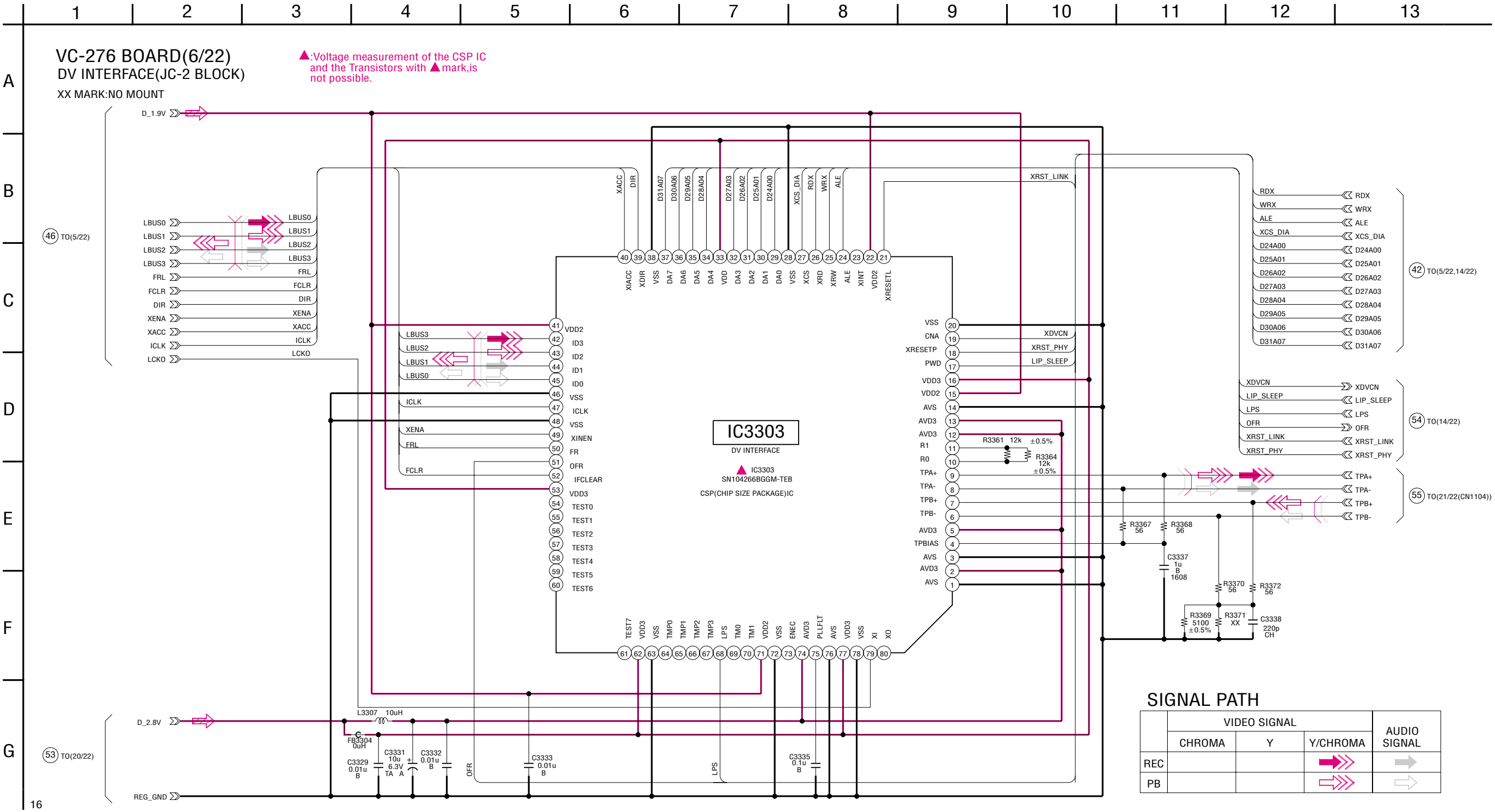
For Schematic Diagram

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



For Schematic Diagram

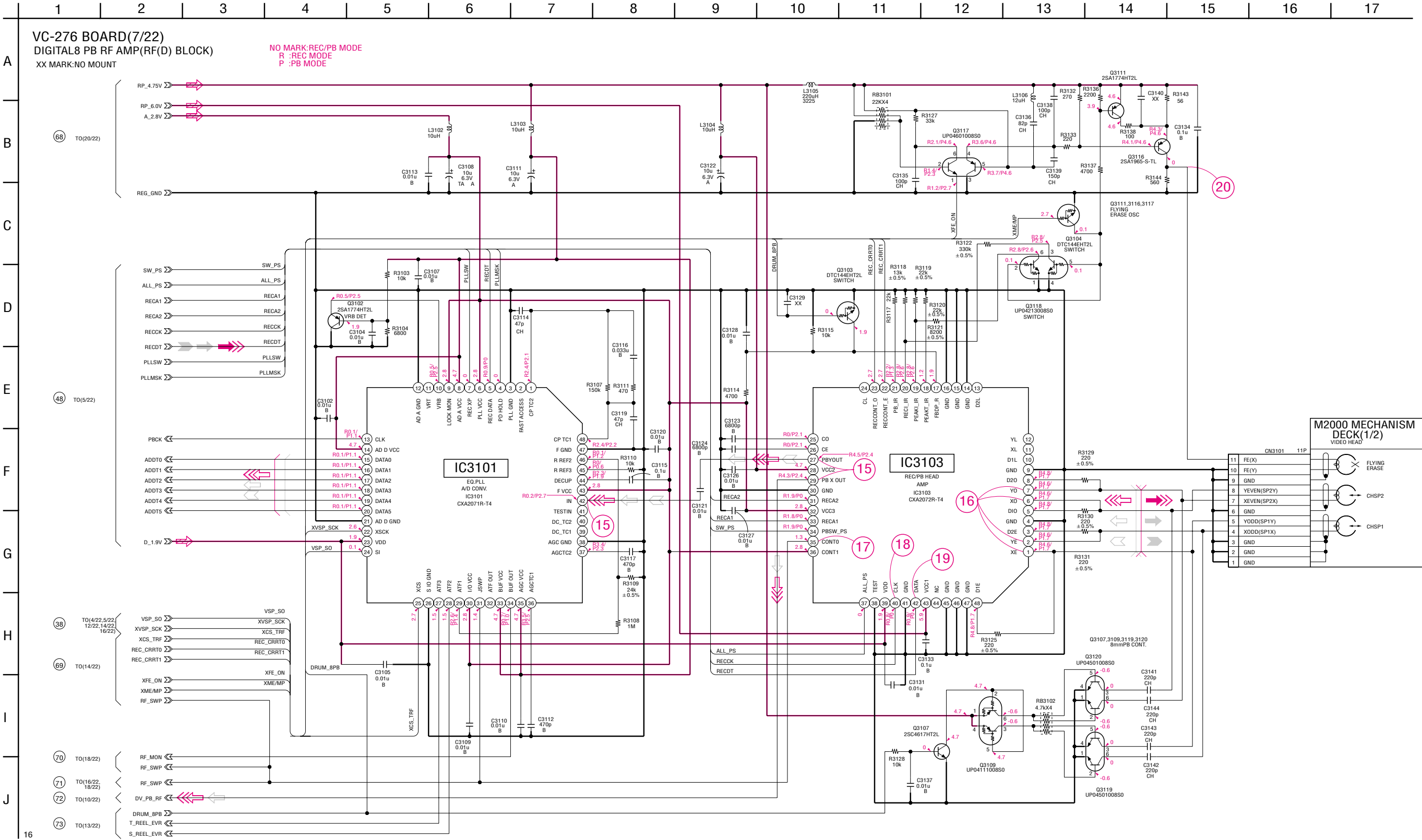
• Refer to page 4-73 for printed wiring board.











**For Schematic Diagram**

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



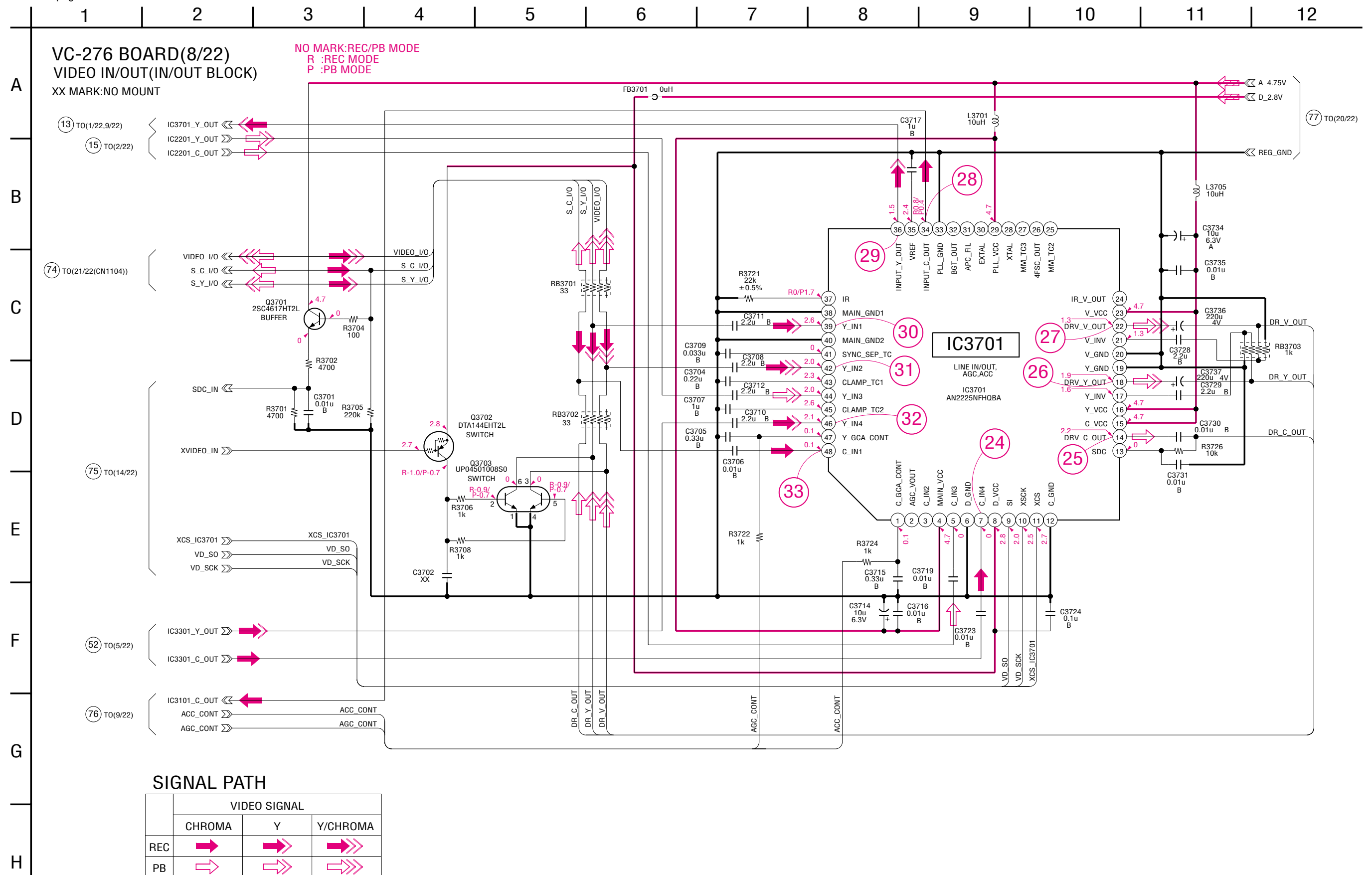
## SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC				
PB				

SIGNAL PATH			
	REC	REC/PB	PB
Ref.signal			

**For Schematic Diagram**

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

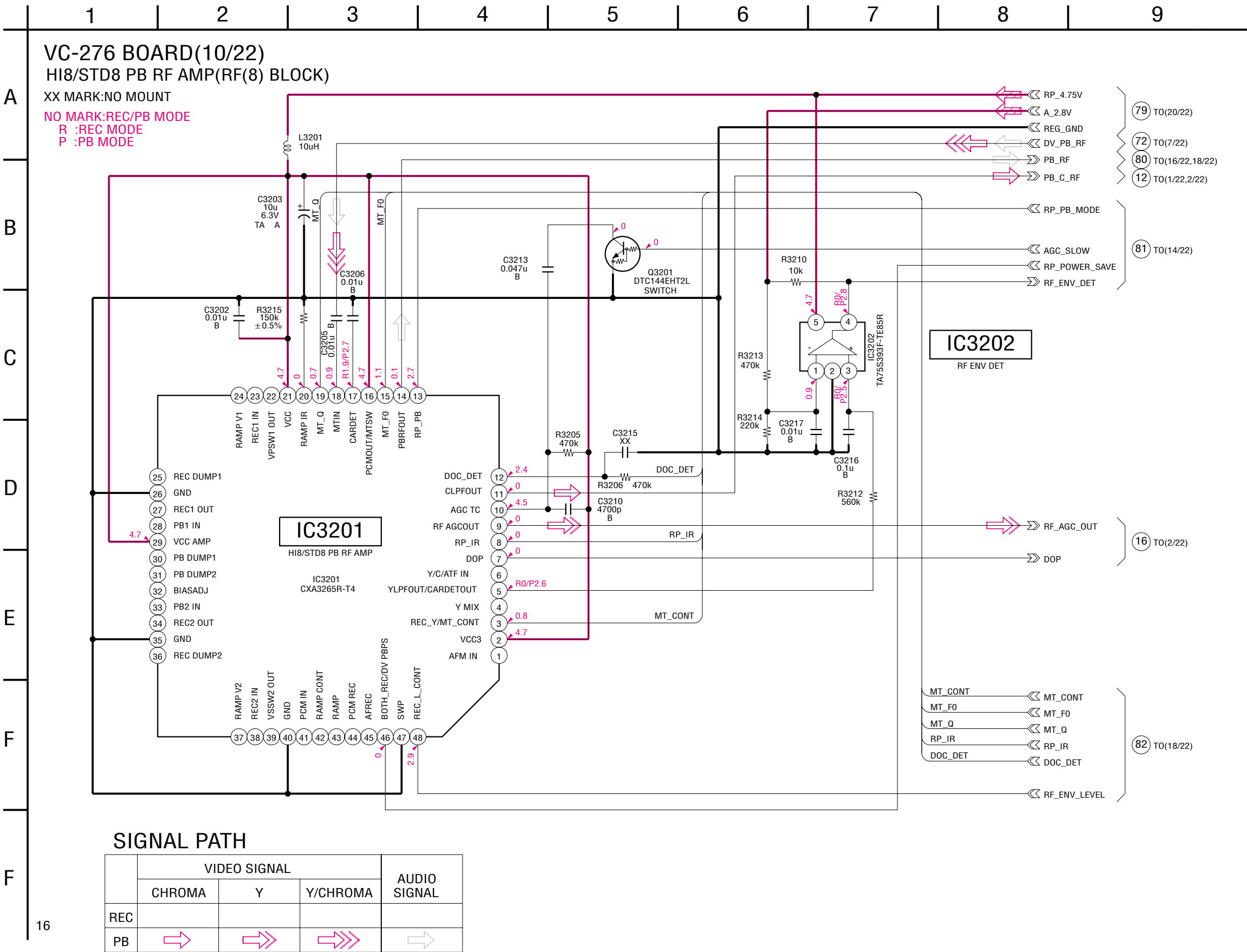




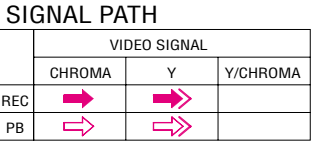
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For Schematic Diagram  
• Refer to page 4-73 for printed wiring board.

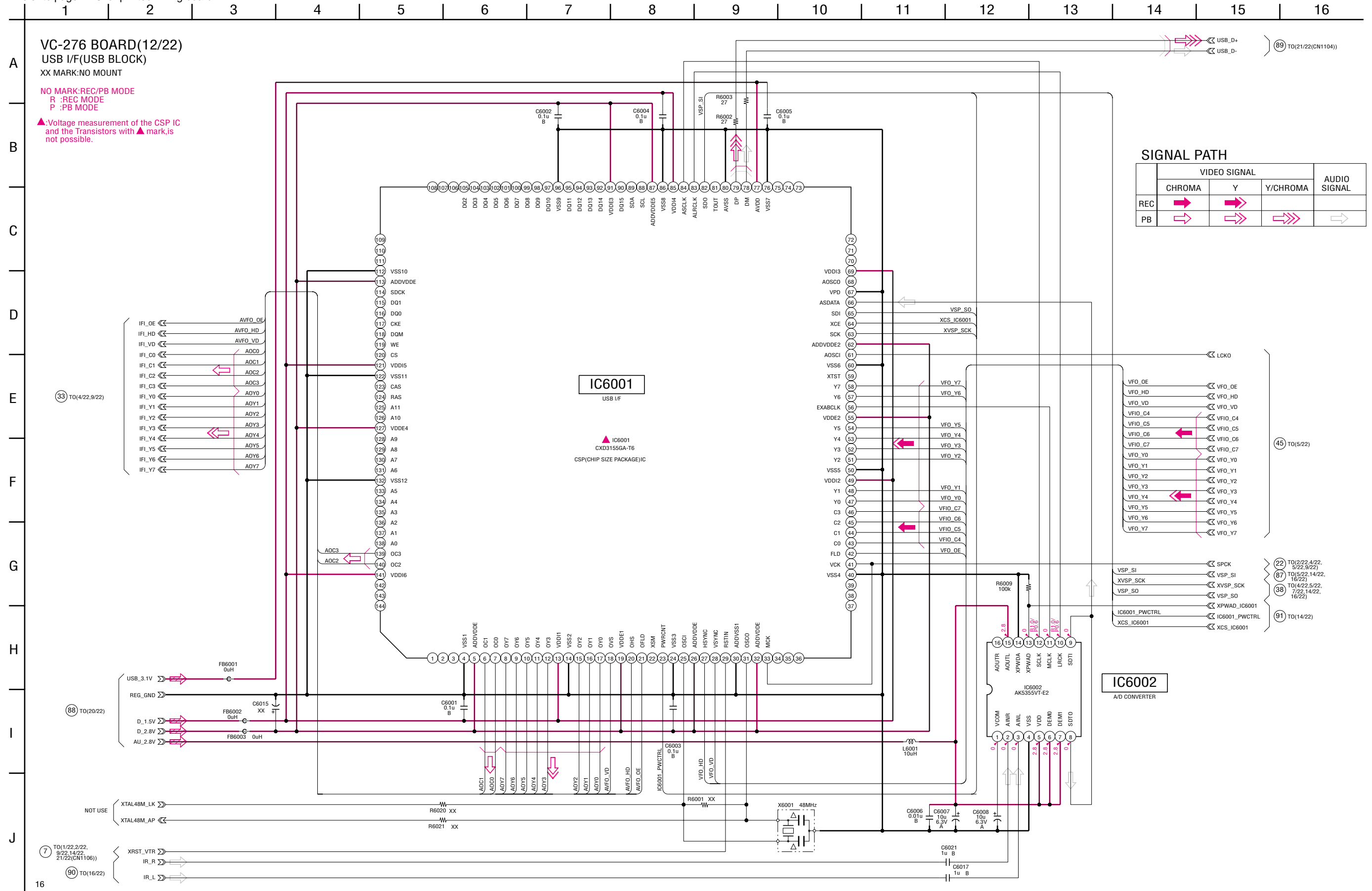


- Refer to page 4-73 for printed wiring board.
- Refer to page 4-80 for waveforms.



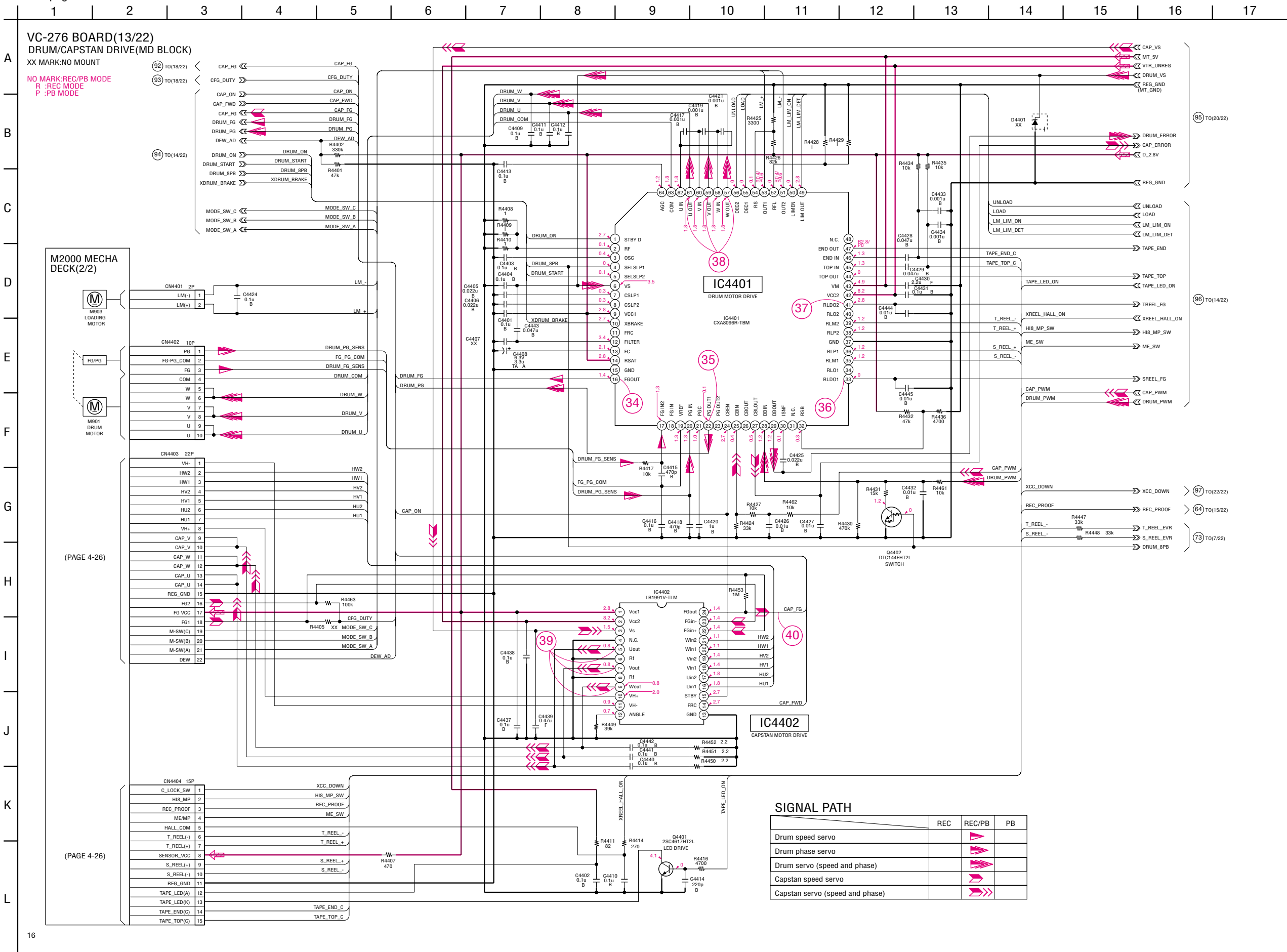
**For Schematic Diagram**

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

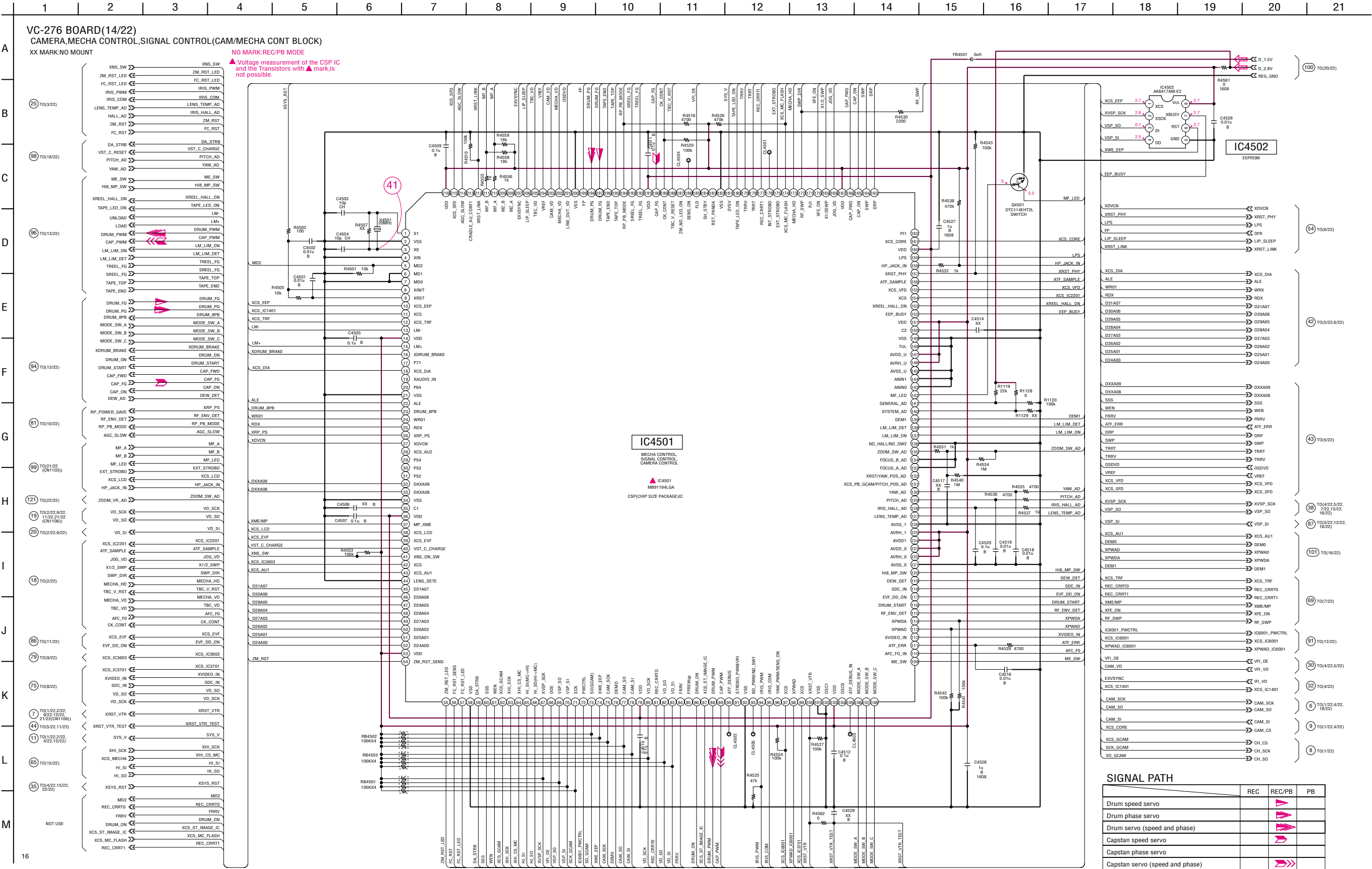


For Schematic Diagram

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

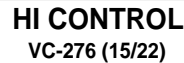


For Schematic Diagram  
• Refer to page 4-73 for printed wiring board.  
• Refer to page 4-80 for waveform.



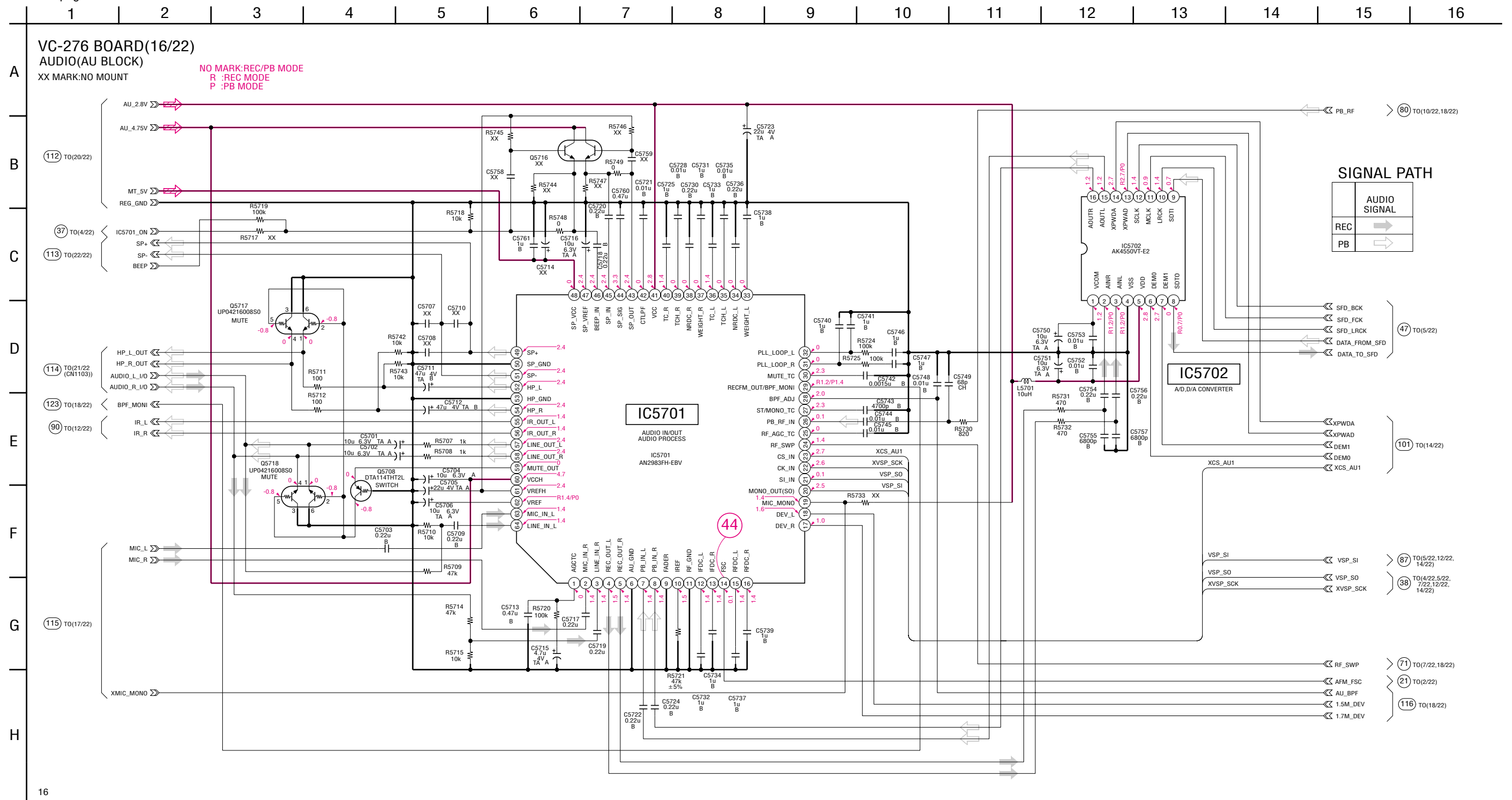


**For Schematic Diagram**  
• Refer to page 4-73 for printed wiring board.



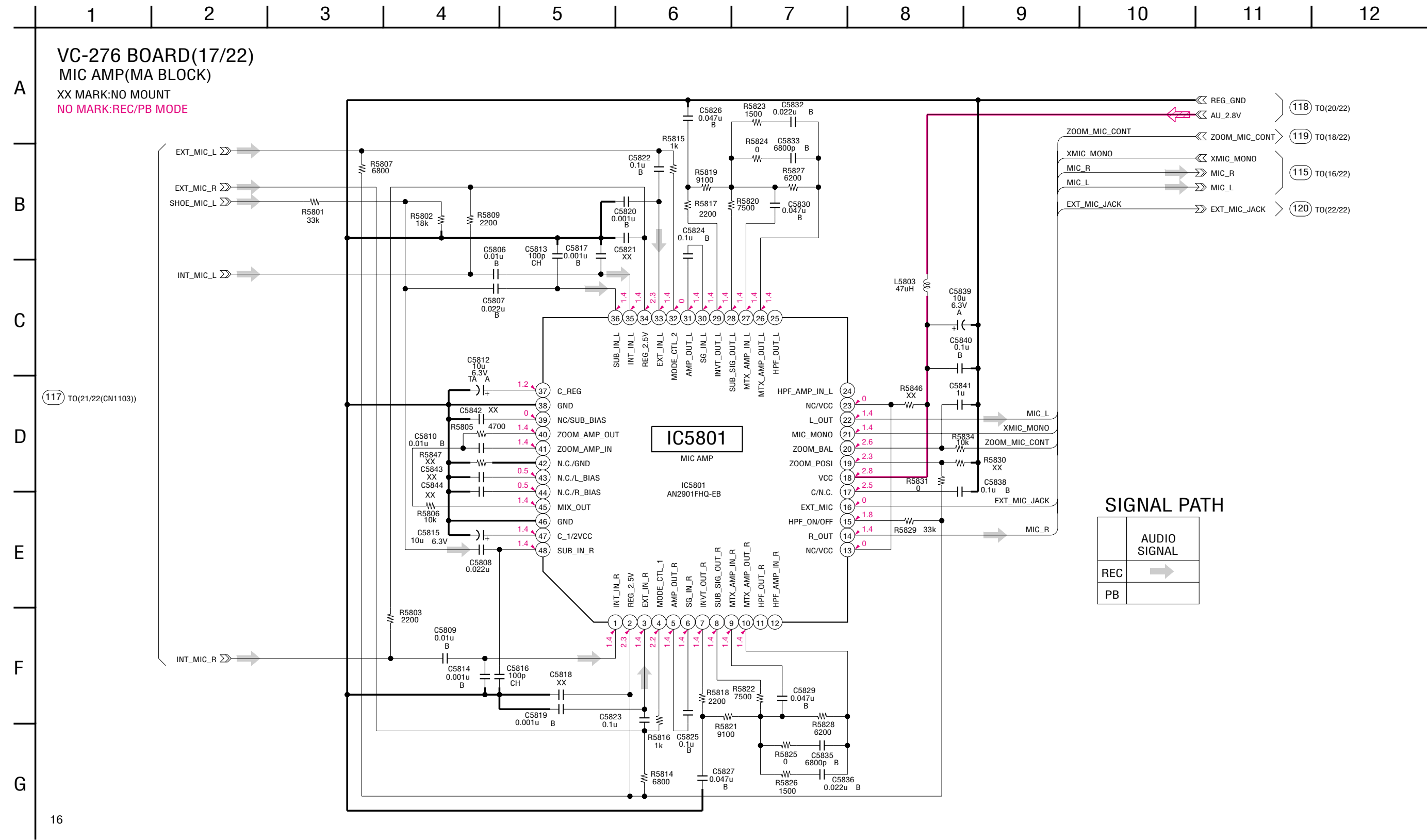
**For Schematic Diagram**

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



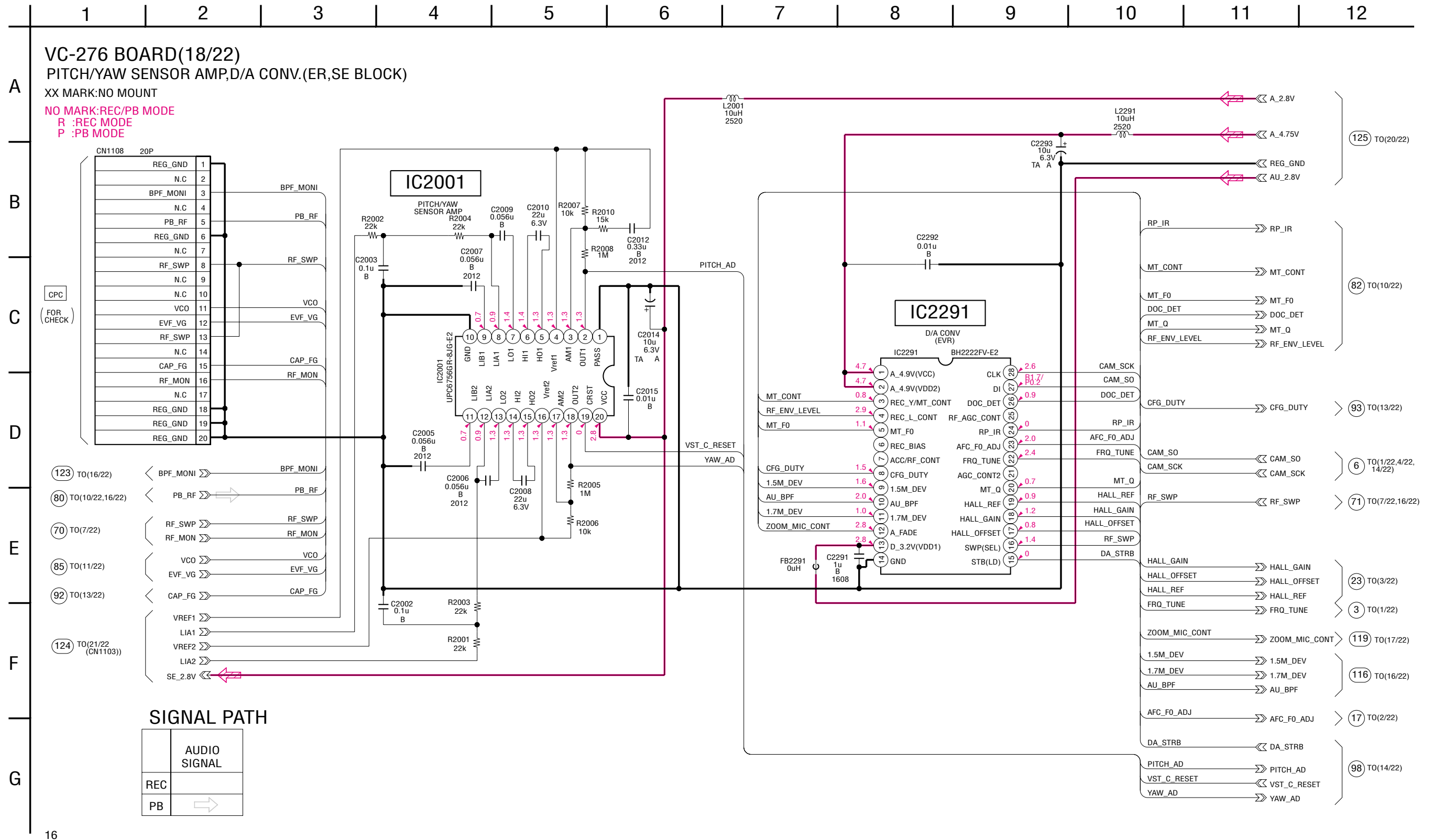


For Schematic Diagram  
• Refer to page 4-73 for printed wiring board.



## For Schematic Diagram


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



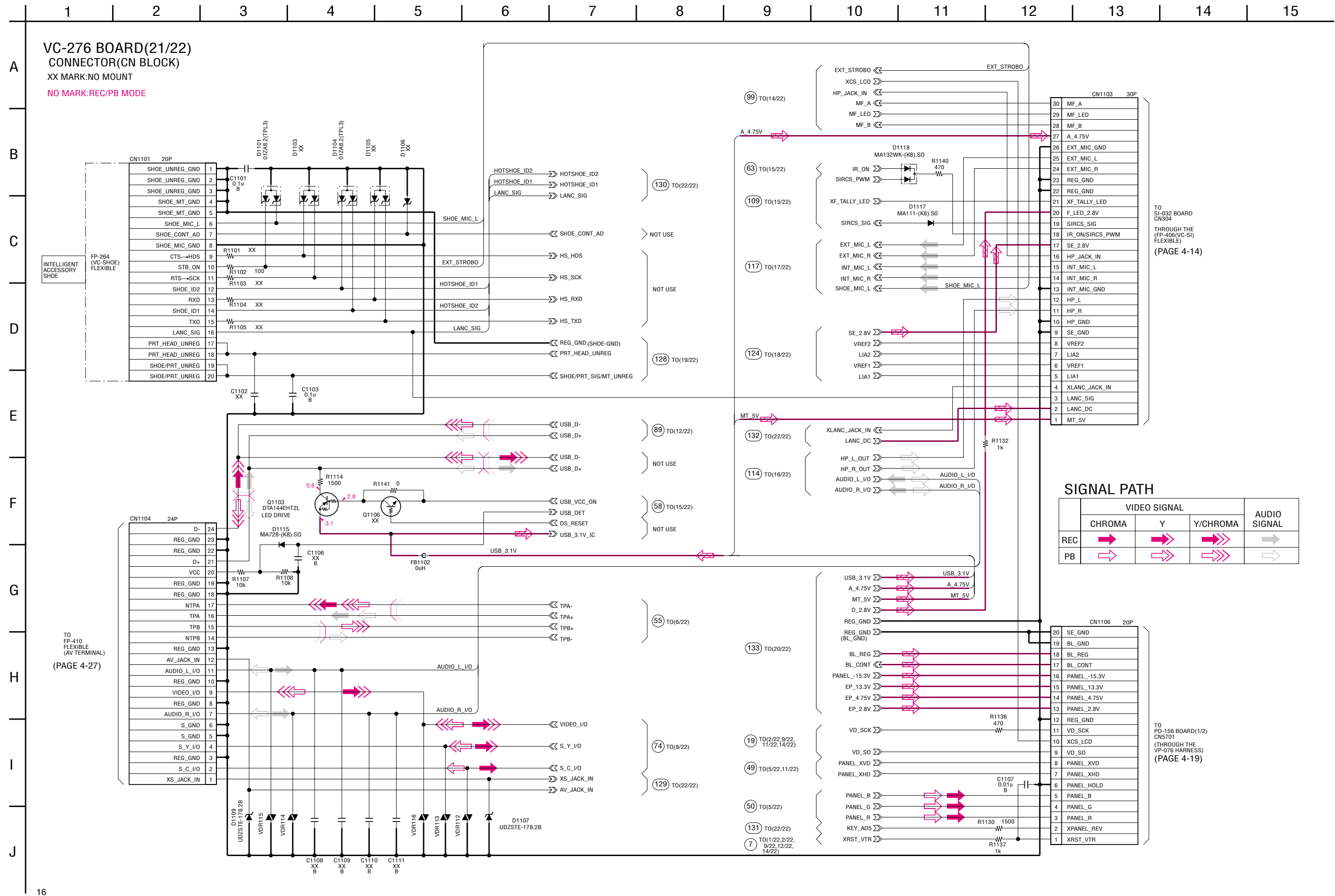
4-65



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

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

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



SIGNAL PATH

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

VC-276 BOARD(22/22)  
LANC/RESET/BEEP I/F,CONNECTOR(LANC/RESET/BEEP/CN BLOCK)


TO  
CF-2500 BLOCK  
(CONTROL SWITCH  
BLOCK)  
(PAGE 4-23)

TO  
SS-1380  
(CONTROL SWITCH  
BLOCK)  
(PAGE 4-27)

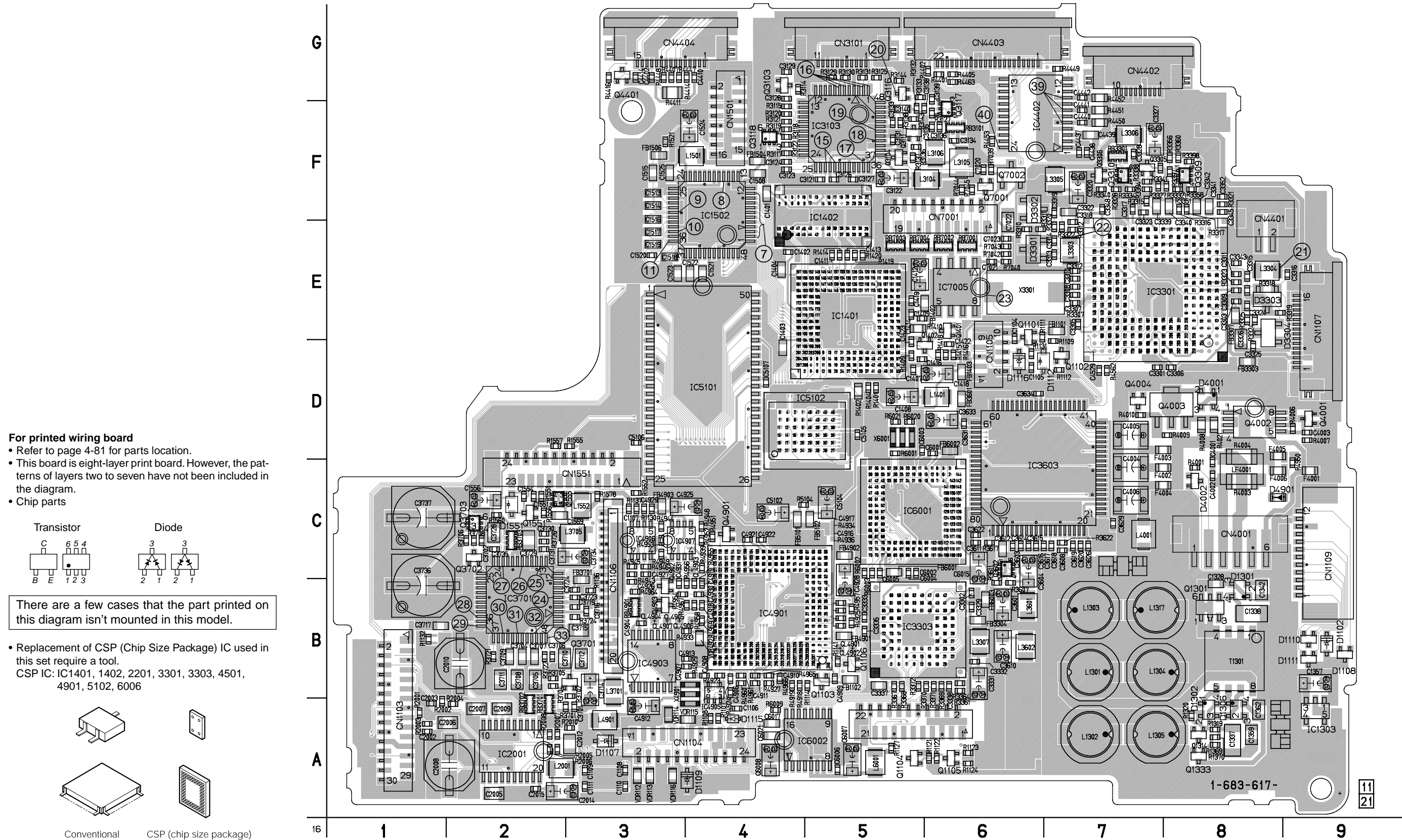




**VC-276 (CAMERA PROCESS, Hi8/STD8 PB PROCESS, IRIS/FOCUS/ZOOM DRIVE, CAMERA/MPEG MOVIE/DIGITAL STILL, CHARACTER, AUDIO, DIGITAL STILL CONTROL, FLASH MEMORY, SDRAM, DV SIGNAL PROCESS, DV INTERFACE, DIGITAL8 PB RF AMP, VIDEO IN/OUT, VIDEO A/D CONVERTER, Hi8/STD8 PB RF AMP, EVF DRIVE, USB, DC IN, CHARGE,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

-  : Uses unleaded solder.

## VC-276 BOARD (SIDE A)



**G**

**F**

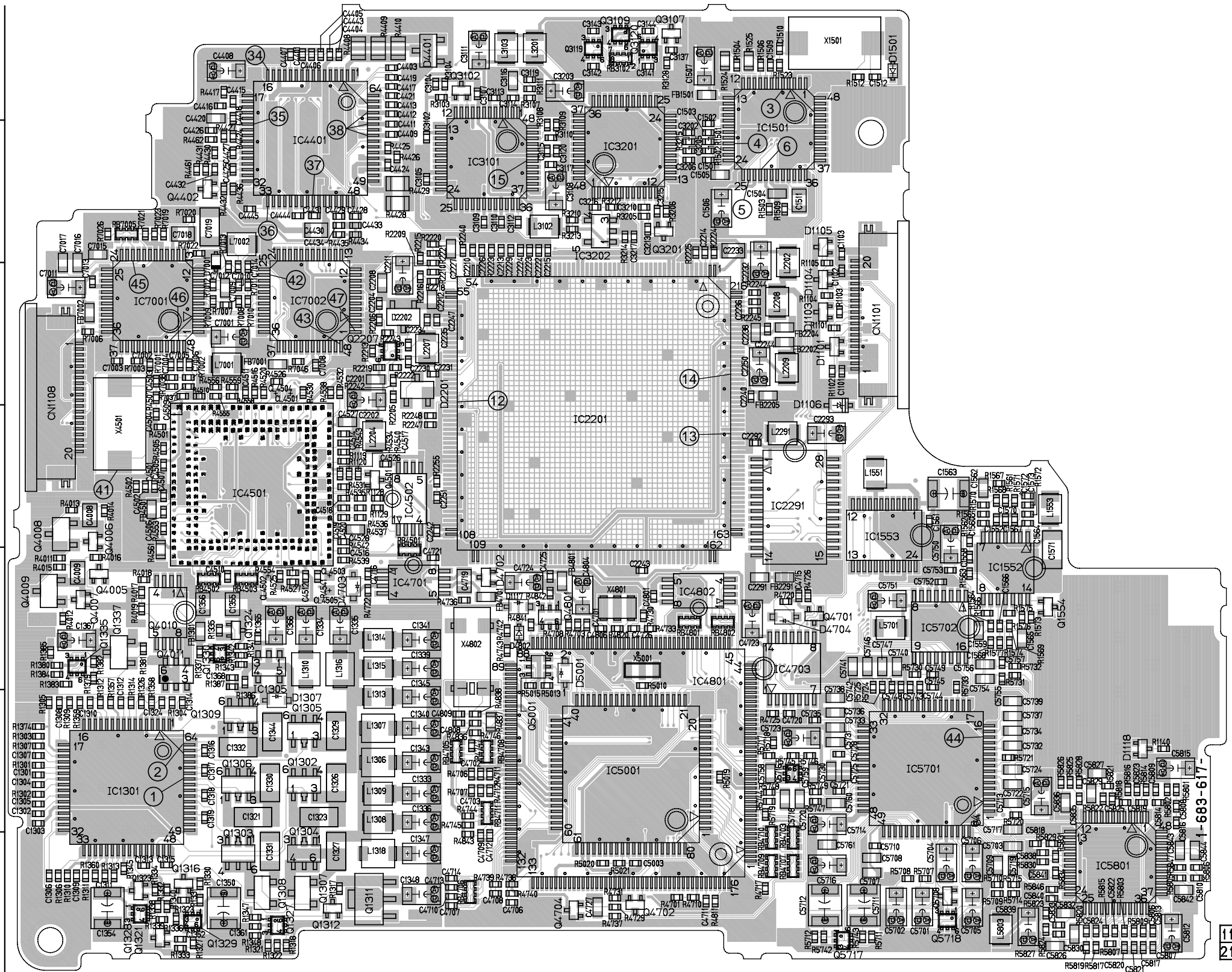
## E

## D

## C

**B**

## A



10

11

12

13

14

15

16

17

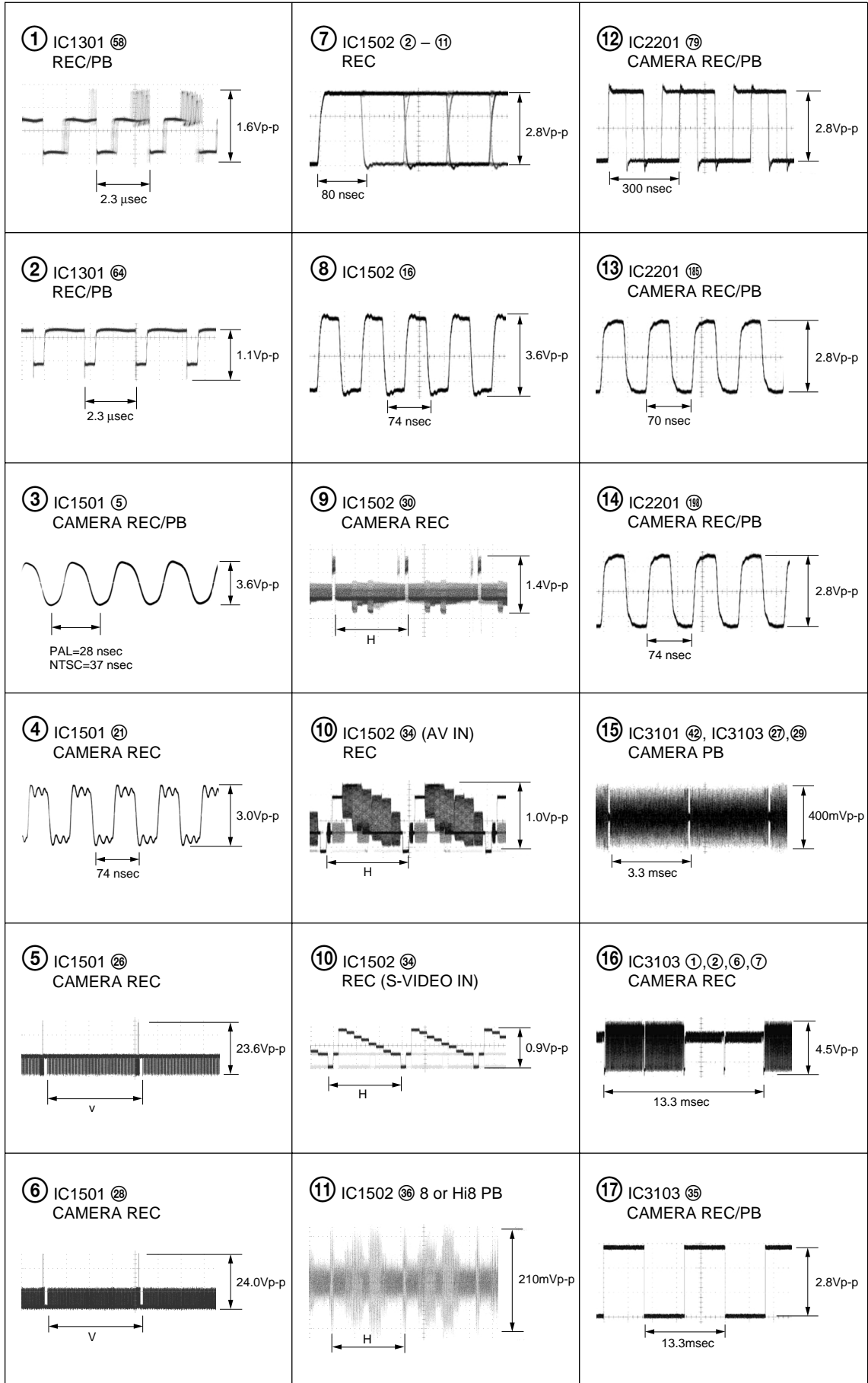
18

11
21

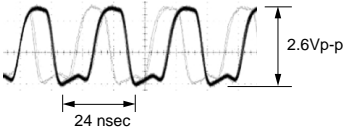
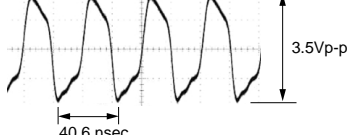
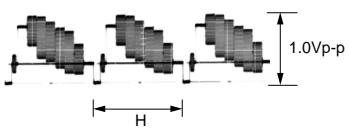
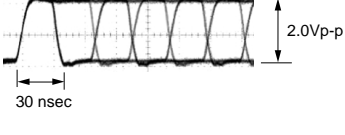
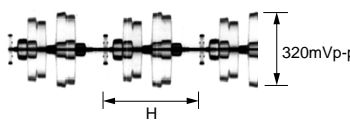
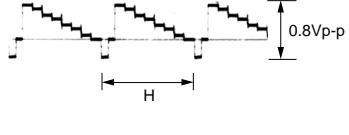
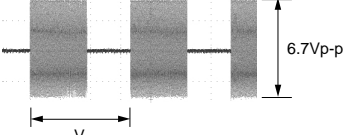
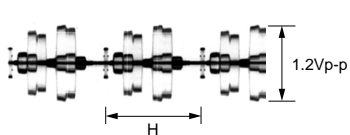
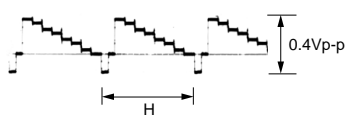
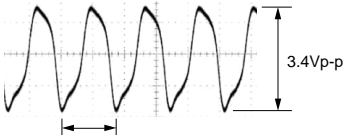

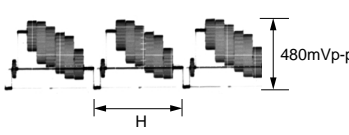
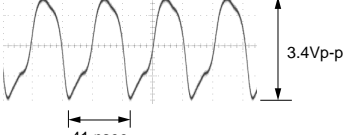
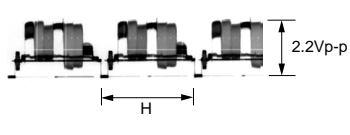
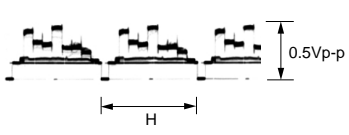
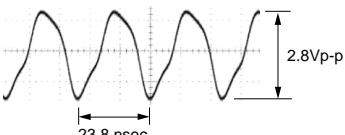
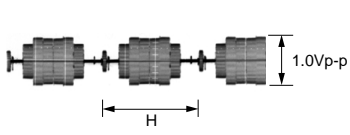
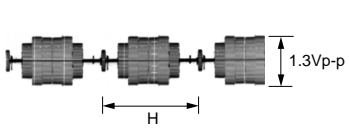


4-3. WAVEFORMS

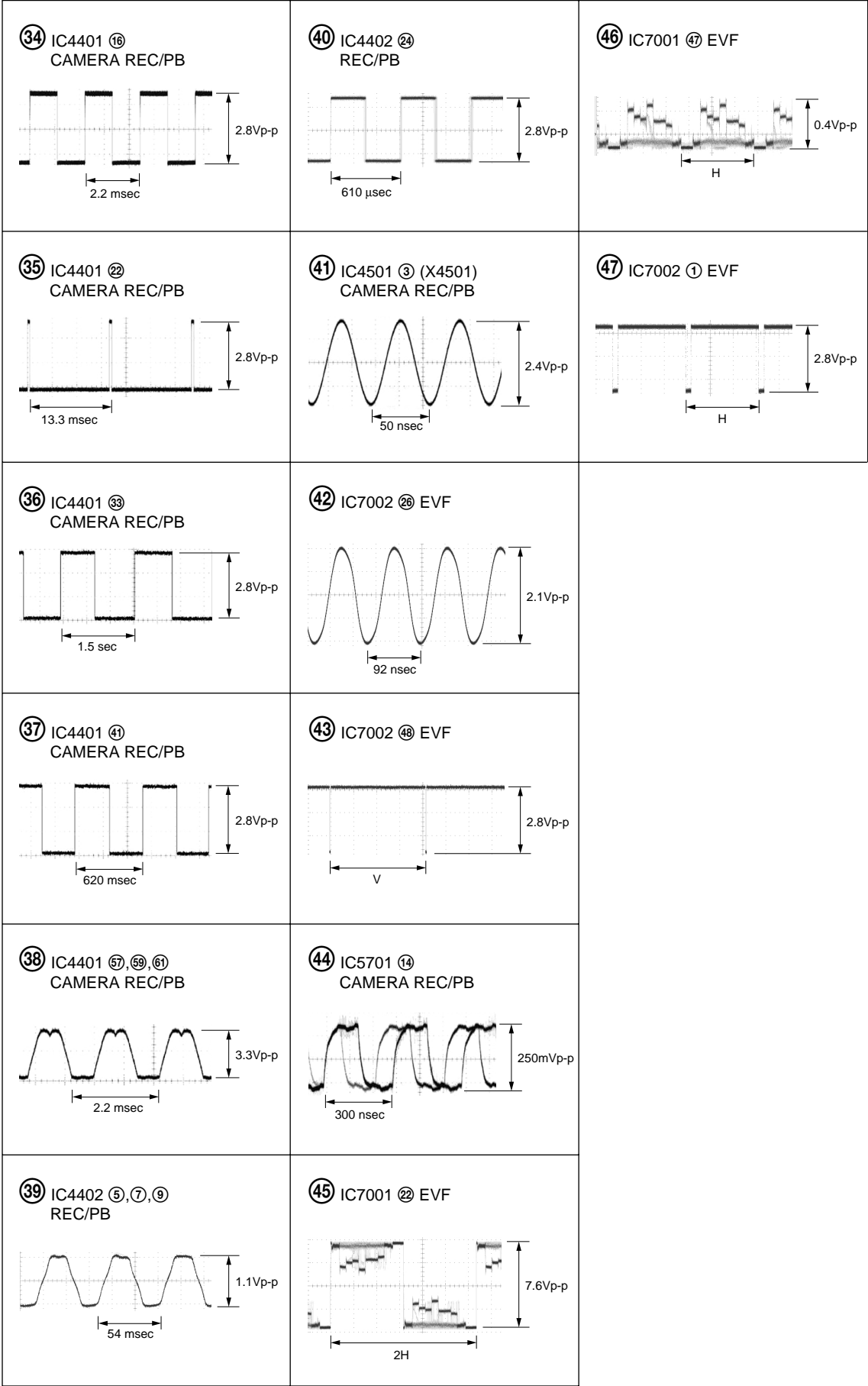
VC-276 BOARD



## VC-276 BOARD

<p>⑮ IC3103 ④① CAMERA REC</p> 	<p>⑳ IC3301 ①⑨ (X3301) CAMERA REC/PB</p> 	<p>㉑ IC3701 ③⑥ LINE REC (AV IN)</p> 
<p>⑲ IC3103 ④② CAMERA REC</p> 	<p>㉒ IC3701 ⑦ CAMERA REC/PB (S-VIDEO OUT)</p> 	<p>㉓ IC3701 ③⑧ LINE REC (S-VIDEO IN)</p> 
<p>㉔ Q3116 ③ REC</p> 	<p>㉕ IC3701 ①④ CAMERA REC/PB (S-VIDEO OUT)</p> 	<p>㉖ IC3701 ③⑨ LINE REC (S-Y IN)</p> 
<p>㉗ IC3301 ④⑤ (L3304) CAMERA REC</p> 	<p>㉘ IC3701 ①⑧ CAMERA REC/PB (S-VIDEO OUT)</p> 	<p>㉙ IC3701 ④③ LINE REC (AV IN)</p> 
<p>㉚ IC3301 ④⑤ (L3304) PB</p> 	<p>㉛ IC3701 ②② CAMERA REC/PB (AV OUT)</p> 	<p>㉜ IC3701 ④④ CAMERA REC/PB (AV or S-VIDEO OUT)</p> 
<p>㉝ IC3301 ①⑩ (L3303) CAMERA REC/PB</p> 	<p>㉞ IC3701 ③④ LINE REC (S-VIDEO IN)</p> 	<p>㉟ IC3701 ④⑥ LINE REC (S-C IN)</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
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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
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* 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	D-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	* CN1101	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	* CN1108	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

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\* mark : side B

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* 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	X6001 D-5
* 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	* Q3102 G-12	* R1311 A-10	* R1572 D-17	R3322 E-7	R4451 F-7	R4944 C-3	R6003 C-5	
L1305 A-7	Q3103 G-4	* R1312 B-11	* R1573 C-17	R3323 E-8	R4452 G-7	R4945 C-3	R6009 A-4	
* L1306 B-12	Q3104 F-5	* R1313 A-11	* R1574 C-17	R3324 E-8	R4453 F-6	R4946 C-3	R6020 D-5	
* L1307 B-12	* Q3107 G-15	* R1314 B-11	* R1575 C-17	R3325 E-8	* R4461 F-11	R4948 C-4	R6021 D-5	
* L1308 B-12	* Q3109 G-14	* R1317 A-12	* R1576 C-17	R3327 F-7	* R4462 F-11	R4949 C-3	* R7001 E-11	
* L1309 B-12	Q3111 F-5	* R1318 A-12	* R1577 C-17	R3328 F-7	R4463 G-6	R4950 C-9	* R7002 E-11	
* L1310 C-12	Q3116 G-5	R1319 A-8	R1578 C-3	R3332 F-8	* R4501 D-11	R4951 C-4	* R7003 E-11	
* L1313 B-12	Q3117 F-6	R1320 A-8	R2001 A-1	R3334 F-7	* R4502 D-11	R4952 C-4	* R7006 E-10	
* L1314 C-12	Q3118 F-4	* R1321 A-12	R2002 A-1	R3338 F-7	* R4505 D-11	R4953 C-3	* R7007 E-11	
* L1315 C-12	* Q3119 G-14	* R1322 A-12	R2003 A-1	R3340 F-7	* R4507 E-11	R4954 B-3	* R7008 E-11	
* L1316 C-12	* Q3120 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	
	* R1101 E-16	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	* R1120 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: μF

• RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable

• COILS  
uH: μH

• SEMICONDUCTORS  
In each case, u: μ, for example:  
uA...: μA... , uPA... , μPA... ,  
uPB... , μPB... , uPC... , μPC... ,  
uPD..., μPD...

• Abbreviation  
EE : East European model  
NE : North European model  
RU : Russian model

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

The components identified by mark Δ or dotted line with mark Δ 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
		*****		C1343	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
		< CAPACITOR >		C1344	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V
C1101	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C1345	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1103	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C1347	1-104-851-11	TANTAL. CHIP 10uF	20% 10V
C1107	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V	C1348	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1301	1-164-933-11	CERAMIC CHIP 220PF	10% 50V	C1350	1-104-913-11	TANTAL. CHIP 10uF	20% 16V
C1302	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C1352	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1303	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C1354	1-113-985-11	TANTAL. CHIP 10uF	20% 20V
C1304	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C1355	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C1305	1-119-923-81	CERAMIC CHIP 0.047uF	10% 10V	C1356	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C1306	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V	C1357	1-104-851-11	TANTAL. CHIP 10uF	20% 10V
C1307	1-164-941-11	CERAMIC CHIP 0.0047uF	10% 16V	C1359	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C1308	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V	C1362	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C1309	1-164-936-11	CERAMIC CHIP 680PF	10% 50V	C1365	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1310	1-164-941-11	CERAMIC CHIP 0.0047uF	10% 16V	C1367	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1311	1-164-938-11	CERAMIC CHIP 0.0015uF	10% 50V	C1403	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C1312	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V	C1404	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C1313	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C1407	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1314	1-164-935-11	CERAMIC CHIP 470PF	10% 50V	C1408	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1315	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C1409	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1316	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C1411	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1317	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C1412	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1318	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C1413	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1319	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C1414	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1321	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1418	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1323	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1501	1-164-858-11	CERAMIC CHIP 22PF	5% 50V
C1326	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1502	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C1327	1-127-692-11	CERAMIC CHIP 10uF	10% 6.3V	C1503	1-164-858-11	CERAMIC CHIP 22PF	5% 50V
C1328	1-162-974-11	CERAMIC CHIP 0.01uF	50V	C1504	1-115-156-11	CERAMIC CHIP 1uF	10V
C1329	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1505	1-115-156-11	CERAMIC CHIP 1uF	10V
C1330	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1506	1-131-861-91	TANTAL. CHIP 4.7uF	20% 20V
C1331	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1507	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C1332	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	C1508	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C1333	1-119-750-11	TANTAL. CHIP 22uF	20% 6.3V	C1509	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C1334	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V	C1510	1-164-848-11	CERAMIC CHIP 8PF	0.50PF 50V
C1335	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V	C1511	1-115-339-11	CERAMIC CHIP 0.1uF	10% 50V
C1336	1-119-750-11	TANTAL. CHIP 22uF	20% 6.3V	C1512	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C1337	1-164-506-11	CERAMIC CHIP 4.7uF	16V	C1513	1-117-863-11	CERAMIC CHIP 0.47uF	10% 6.3V
C1338	1-164-506-11	CERAMIC CHIP 4.7uF	16V	C1514	1-162-921-11	CERAMIC CHIP 33PF	5% 50V
C1339	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V	C1515	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C1340	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V	C1516	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C1341	1-135-259-11	TANTAL. CHIP 10uF	20% 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	



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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				
C7013	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	△ F4001	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7014	1-164-876-11	CERAMIC CHIP	120PF 5% 50V	△ F4002	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
				△ F4003	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
				△ F4004	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
				△ F4006	1-576-406-21	FUSE, MICRO (1.4A/32V) (1608)	
C7015	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V			< FERRITE BEAD >	
C7016	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V				
C7017	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V				
C7018	1-164-505-11	CERAMIC CHIP	2.2uF 16V				
C7019	1-109-994-11	CERAMIC CHIP	2.2uF 10% 10V				
		< CONNECTOR >					
CN1101	1-766-350-21	CONNECTOR, FFC/FPC 20P		FB1102	1-414-760-21	FERRITE 0uH	
CN1103	1-779-339-21	CONNECTOR, FFC/FPC 30P		FB1102	1-414-760-21	FERRITE 0uH	
CN1104	1-816-235-11	CONNECTOR, FFC/FPC 24P		FB1301	1-414-760-21	FERRITE 0uH	
CN1106	1-794-998-31	PIN, CONNECTOR 20P		FB1402	1-414-760-21	FERRITE 0uH	
CN1108	1-766-350-21	CONNECTOR, FFC/FPC 20P		FB1403	1-414-760-21	FERRITE 0uH	
CN1109	1-750-076-21	CONNECTOR, FFC/FPC 12P		FB1501	1-414-760-21	FERRITE 0uH	
CN1110	1-779-335-21	CONNECTOR, FFC/FPC 22P		FB1504	1-414-760-21	FERRITE 0uH	
CN1501	1-785-836-11	CONNECTOR, FFC/FPC (LIF) 16P		FB1506	1-500-283-11	FERRITE 0uH	
CN1551	1-750-360-21	CONNECTOR, FFC/FPC (ZIF) 24P		FB2202	1-414-760-21	FERRITE 0uH	
CN3101	1-766-341-21	CONNECTOR, FFC/FPC 11P		FB2204	1-414-760-21	FERRITE 0uH	
CN4001	1-573-806-21	PIN, CONNECTOR (1.5MM) (SMD)6P		FB2205	1-414-760-21	FERRITE 0uH	
* CN4401	1-695-320-21	PIN, CONNECTOR (1.5MM)(SMD) 2P		FB2291	1-414-760-21	FERRITE 0uH	
CN4402	1-766-340-21	CONNECTOR, FFC/FPC 10P		FB3303	1-414-760-21	FERRITE 0uH	
CN4403	1-766-352-21	CONNECTOR, FFC/FPC 22P		FB3304	1-414-760-21	FERRITE 0uH	
CN4404	1-766-345-21	CONNECTOR, FFC/FPC 15P		FB3307	1-414-760-21	FERRITE 0uH	
CN7001	1-779-334-11	CONNECTOR, FFC/FPC 20P		FB3601	1-414-760-21	FERRITE 0uH	
		< DIODE >		FB3701	1-414-760-21	FERRITE 0uH	
D1101	8-719-062-16	DIODE 01ZA8.2(TPL3)		FB4501	1-414-760-21	FERRITE 0uH	
D1102	8-719-056-85	DIODE UDZSTE-178.2B		FB4701	1-414-760-21	FERRITE 0uH	
D1104	8-719-062-16	DIODE 01ZA8.2(TPL3)		FB4801	1-414-760-21	FERRITE 0uH	
D1107	8-719-056-85	DIODE UDZSTE-178.2B					
D1108	8-719-062-16	DIODE 01ZA8.2(TPL3)		FB6001	1-414-760-21	FERRITE 0uH	
				FB6002	1-414-760-21	FERRITE 0uH	
D1109	8-719-056-85	DIODE UDZSTE-178.2B		FB6003	1-414-760-21	FERRITE 0uH	
D1110	8-719-062-16	DIODE 01ZA8.2(TPL3)		FB7001	1-414-760-21	FERRITE 0uH	
D1111	8-719-062-16	DIODE 01ZA8.2(TPL3)		FB7002	1-414-760-21	FERRITE 0uH	
D1115	8-719-046-85	DIODE MA2S728-(K8).SO				< IC >	
D1117	8-719-073-01	DIODE MA111-(K8).SO		IC1301	8-752-102-78	IC CXA3282R-T6	
				IC1303	8-759-650-28	IC RN5RZ59BA-TL	
D1118	8-719-421-67	DIODE MA132WK-(K8).SO		IC1305	8-759-525-53	IC RN5RZ31BA-TL	
D1301	8-719-081-19	DIODE 1SS383(T5RSONY1)		IC1401	6-701-648-01	IC MB87M1420LGA-G-ER	
D1302	8-719-081-19	DIODE 1SS383(T5RSONY1)		IC1501	8-752-417-70	IC CXD2444AR-T4	
D1306	8-719-081-19	DIODE 1SS383(T5RSONY1)					
D1501	8-719-082-63	DIODE 1SV329(TPL3)		IC1502	8-759-684-90	IC VSP2200Y-1/2K	
				IC1552	8-759-681-42	IC NJM12902V(TE2)	
D1551	8-719-073-01	DIODE MA111-(K8).SO		IC1553	8-759-637-96	IC MPC17A135DTAEL	
D2201	8-719-081-96	DIODE KV1870STL		IC2001	8-759-489-19	IC uPC6756GR-8JG-E2	
D2202	8-719-081-96	DIODE KV1870STL		IC2201	8-759-677-85	IC MB87M1011PFF-G-BND	
D3301	8-719-992-02	DIODE RB705D-T146					
D3302	8-719-081-96	DIODE KV1870STL		IC2291	8-759-713-19	IC BH2222FV-E2	
				IC3101	8-752-086-52	IC CXA2071R-T4	
D3303	8-719-992-02	DIODE RB705D-T146		IC3103	8-752-086-53	IC CXA2072R-T4	
D3304	8-719-081-96	DIODE KV1870STL		IC3201	8-752-093-69	IC CXA3265R-T4	
D4001	8-719-081-19	DIODE 1SS383(T5RSONY1)		IC3202	8-759-075-70	IC TA75S393F-TE85R	
D4002	8-719-062-16	DIODE 01ZA8.2(TPL3)					
D4702	8-719-421-67	DIODE MA132WK-(K8).SO		IC3301	8-759-650-63	IC CAIN-CSP	
				IC3303	6-700-553-38	IC SN104266BGGM-TEB	
D4703	8-719-421-27	DIODE MA728-(K8).SO		IC3603	6-701-682-01	IC MB87L4261PFV-G-BND-ER	
D4704	8-719-073-01	DIODE MA111-(K8).SO		IC3701	6-701-555-01	IC AN2225NFHQBA	
D4802	8-719-046-85	DIODE MA2S728-(K8).SO		IC4401	8-759-640-85	IC CXA8096R-TBM	
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					
IC6001	8-752-415-97	IC CXD3155GA-T6		LF4001	1-411-957-11	FILTER, COMMON MODE	
IC6002	6-701-691-01	IC AK5355VT-E2				< TRANSISTOR >	
IC7001	8-752-100-95	IC CXA3289AR-T4					
IC7002	8-752-405-57	IC CXD3501AR-T4					
		< COIL >					
L1301	1-416-670-11	INDUCTOR 33uH		Q1103	8-729-052-59	TRANSISTOR DTA144EHT2L	
L1302	1-416-669-11	INDUCTOR 22uH		Q1104	8-729-052-65	TRANSISTOR 2SA1774HT2L	
L1303	1-416-669-11	INDUCTOR 22uH		Q1105	8-729-052-66	TRANSISTOR 2SC4617HT2L	
L1304	1-416-669-11	INDUCTOR 22uH		Q1301	8-729-043-60	TRANSISTOR CPH6102-TL-E	
L1305	1-416-669-11	INDUCTOR 22uH		Q1302	8-729-046-98	TRANSISTOR CPH6702-TL-E	
L1306	1-412-056-11	INDUCTOR 4.7uH		Q1303	8-729-046-98	TRANSISTOR CPH6702-TL-E	
L1307	1-412-056-11	INDUCTOR 4.7uH		Q1304	8-729-046-98	TRANSISTOR CPH6702-TL-E	
L1308	1-469-526-91	INDUCTOR 22uH		Q1305	8-729-046-98	TRANSISTOR CPH6702-TL-E	
L1309	1-469-526-91	INDUCTOR 22uH		Q1306	8-729-046-98	TRANSISTOR CPH6702-TL-E	
L1310	1-412-056-11	INDUCTOR 4.7uH		Q1307	8-729-044-58	TRANSISTOR SI2304DS-T1	
L1313	1-469-524-91	INDUCTOR 4.7uH		Q1308	8-729-044-58	TRANSISTOR SI2304DS-T1	
L1314	1-469-524-91	INDUCTOR 4.7uH		Q1309	8-729-046-98	TRANSISTOR CPH6702-TL-E	
L1315	1-469-524-91	INDUCTOR 4.7uH		Q1311	8-729-101-07	TRANSISTOR 2SB798-T1-DLKD	
L1316	1-414-400-41	INDUCTOR 22uH		Q1312	8-729-052-65	TRANSISTOR 2SA1774HT2L	
L1317	1-416-669-11	INDUCTOR 22uH		Q1314	8-729-052-64	TRANSISTOR DTC144EHT2L	
L1318	1-412-056-11	INDUCTOR 4.7uH		Q1316	8-729-052-66	TRANSISTOR 2SC4617HT2L	
L1401	1-469-525-91	INDUCTOR 10uH		Q1321	8-729-052-66	TRANSISTOR 2SC4617HT2L	
L1501	1-469-525-91	INDUCTOR 10uH		Q1323	8-729-052-65	TRANSISTOR 2SA1774HT2L	
L1551	1-469-525-91	INDUCTOR 10uH		Q1324	8-729-052-66	TRANSISTOR 2SC4617HT2L	
L1553	1-469-525-91	INDUCTOR 10uH		Q1327	8-759-054-50	TRANSISTOR UP04501008S0	
L2001	1-469-525-91	INDUCTOR 10uH		Q1328	8-759-054-50	TRANSISTOR UP04501008S0	
L2202	1-469-525-91	INDUCTOR 10uH		Q1329	8-729-054-49	TRANSISTOR UP04401008S0	
L2204	1-469-525-91	INDUCTOR 10uH		Q1330	8-729-054-49	TRANSISTOR UP04401008S0	
L2207	1-400-196-11	INDUCTOR 0uH		Q1333	8-729-052-66	TRANSISTOR 2SC4617HT2L	
L2208	1-469-525-91	INDUCTOR 10uH		Q1335	8-759-054-50	TRANSISTOR UP04501008S0	
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		Q3102	8-729-052-65	TRANSISTOR 2SA1774HT2L	
L3106	1-400-197-11	INDUCTOR 0uH		Q3103	8-729-052-64	TRANSISTOR DTC144EHT2L	
L3201	1-469-525-91	INDUCTOR 10uH		Q3104	8-729-052-64	TRANSISTOR DTC144EHT2L	
L3303	1-469-546-21	INDUCTOR 0uH		Q3107	8-729-052-66	TRANSISTOR 2SC4617HT2L	
L3304	1-400-194-11	INDUCTOR 0uH		Q3109	8-729-054-44	TRANSISTOR UP04111008S0	
L3305	1-469-525-91	INDUCTOR 10uH		Q3111	8-729-052-65	TRANSISTOR 2SA1774HT2L	
L3306	1-469-525-91	INDUCTOR 10uH		Q3116	8-729-047-19	TRANSISTOR 2SA1965-S-TL	
L3307	1-469-525-91	INDUCTOR 10uH		Q3117	8-759-054-48	TRANSISTOR UP04601008S0	
L3601	1-469-525-91	INDUCTOR 10uH		Q3118	8-729-054-47	TRANSISTOR UP04213008S0	
L3602	1-469-525-91	INDUCTOR 10uH		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	

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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	DTA114THT2L			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

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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	1-218-864-11	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	1-218-955-11	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.



## Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2002.02	Official Release	—	—