

# SECTION 4 CHARTS AND DIAGRAMS

## 4.1 BOARD INTERCONNECTIONS

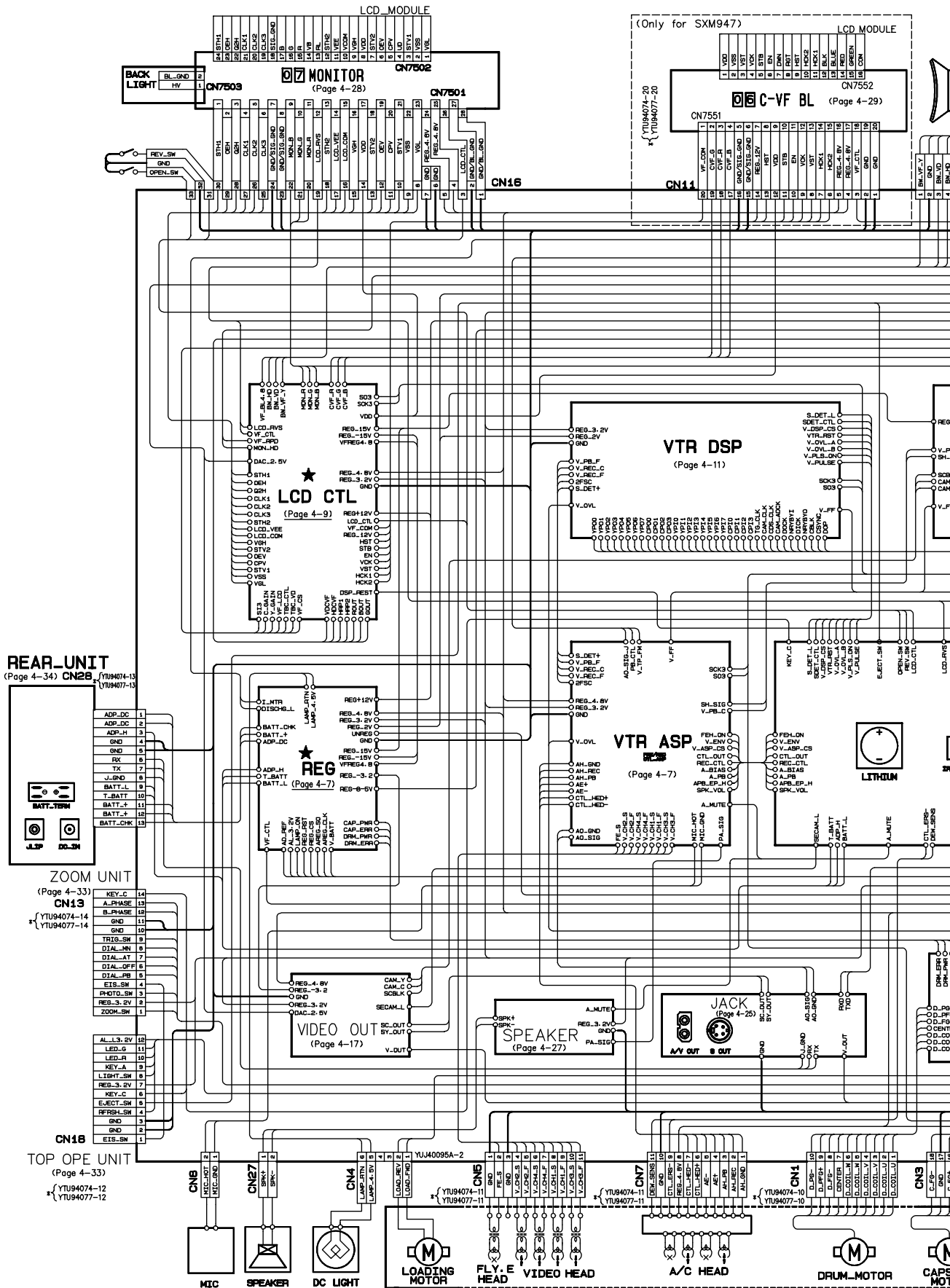
5

4

3

2

1



A

B

C

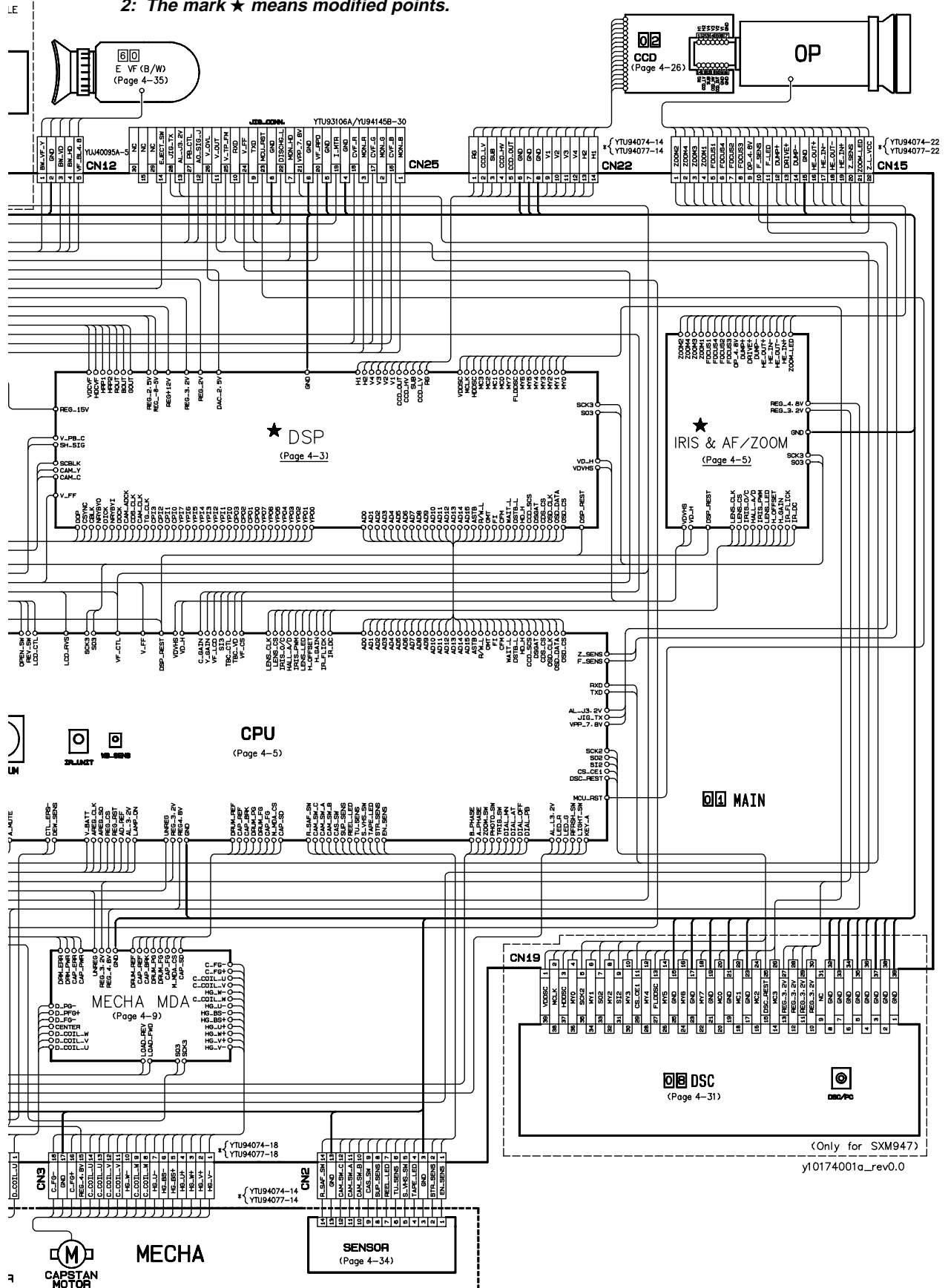
D

**Note 1: How to find the page showing the continuative schematic diagram**

**Example) TO CPU (Page 4-5): Refer to the GR-SXM330U, SXM930U service manual (No. 86595)**

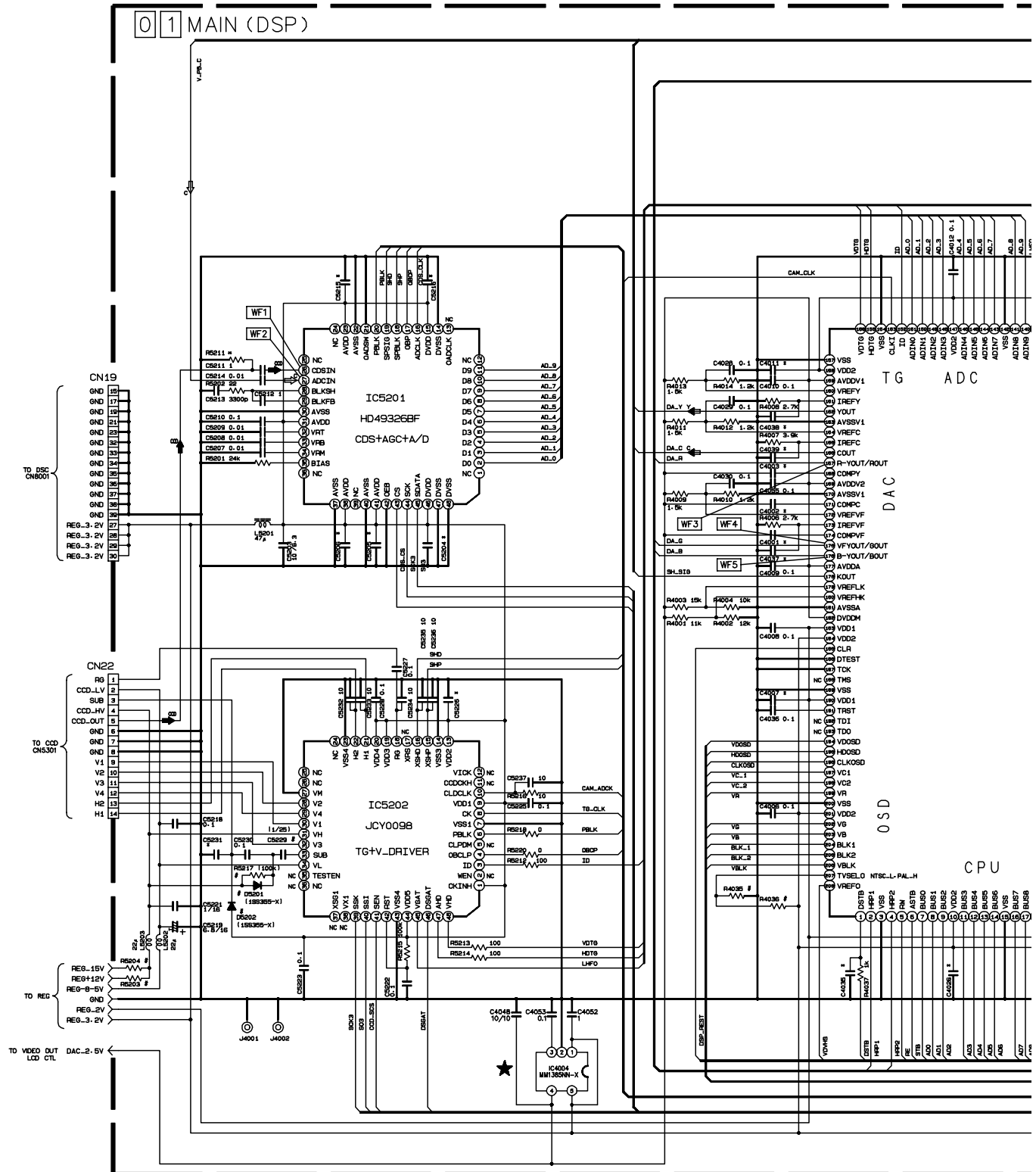
**TO REG (Page 4-7): Refer to this service manual**

**2: The mark ★ means modified points.**



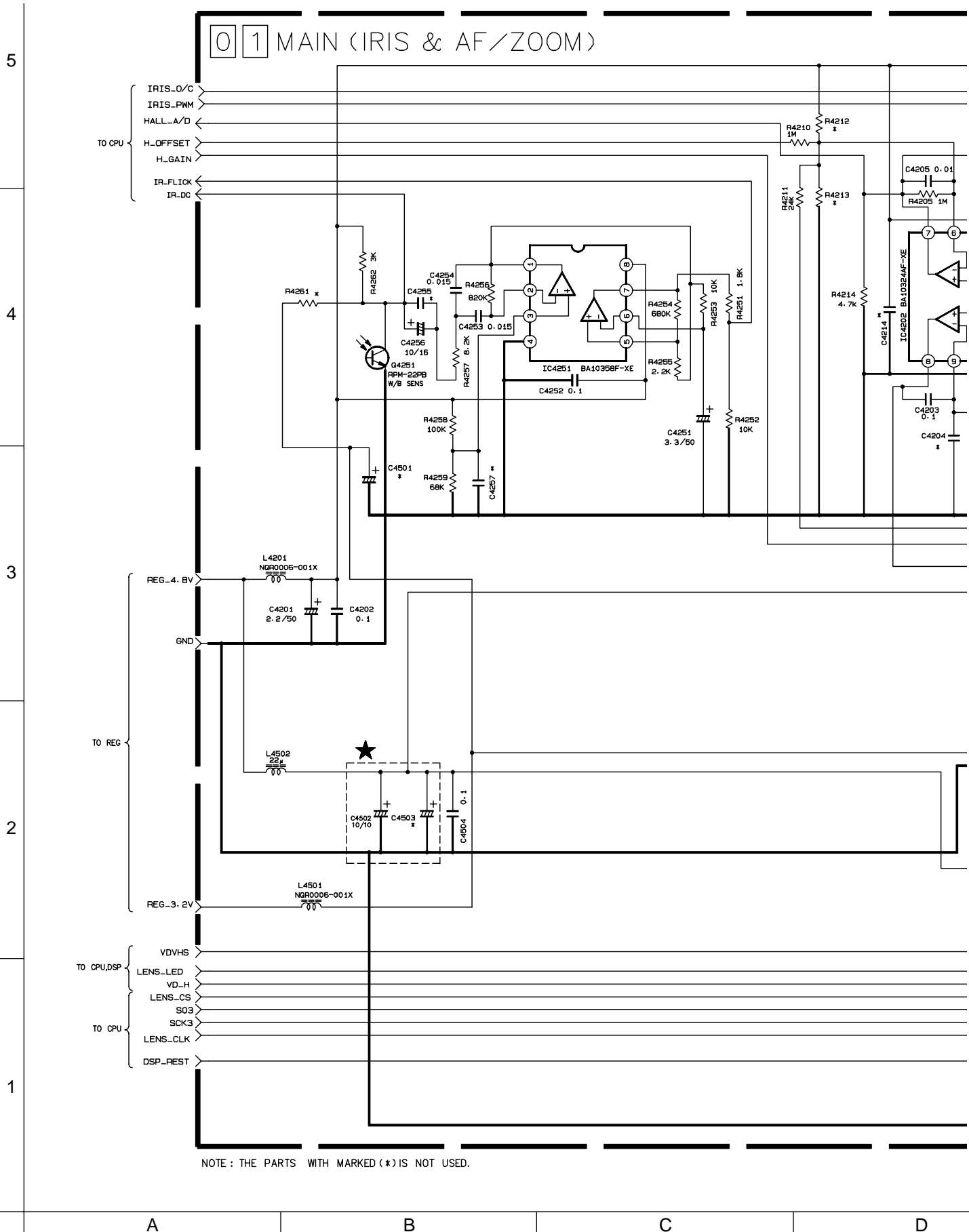
y10174001a\_rev0.0

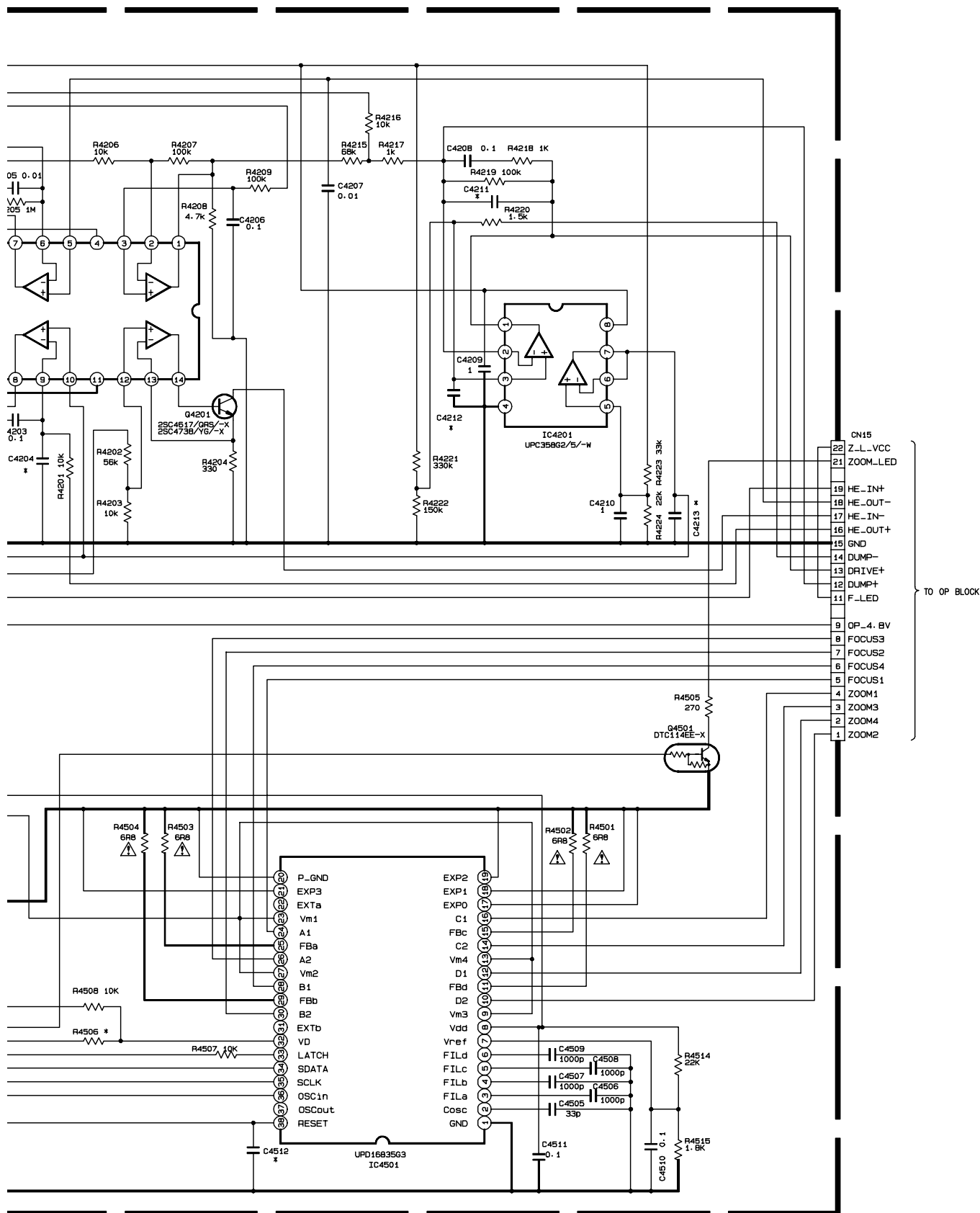
## 4.2 DSP SCHEMATIC DIAGRAM



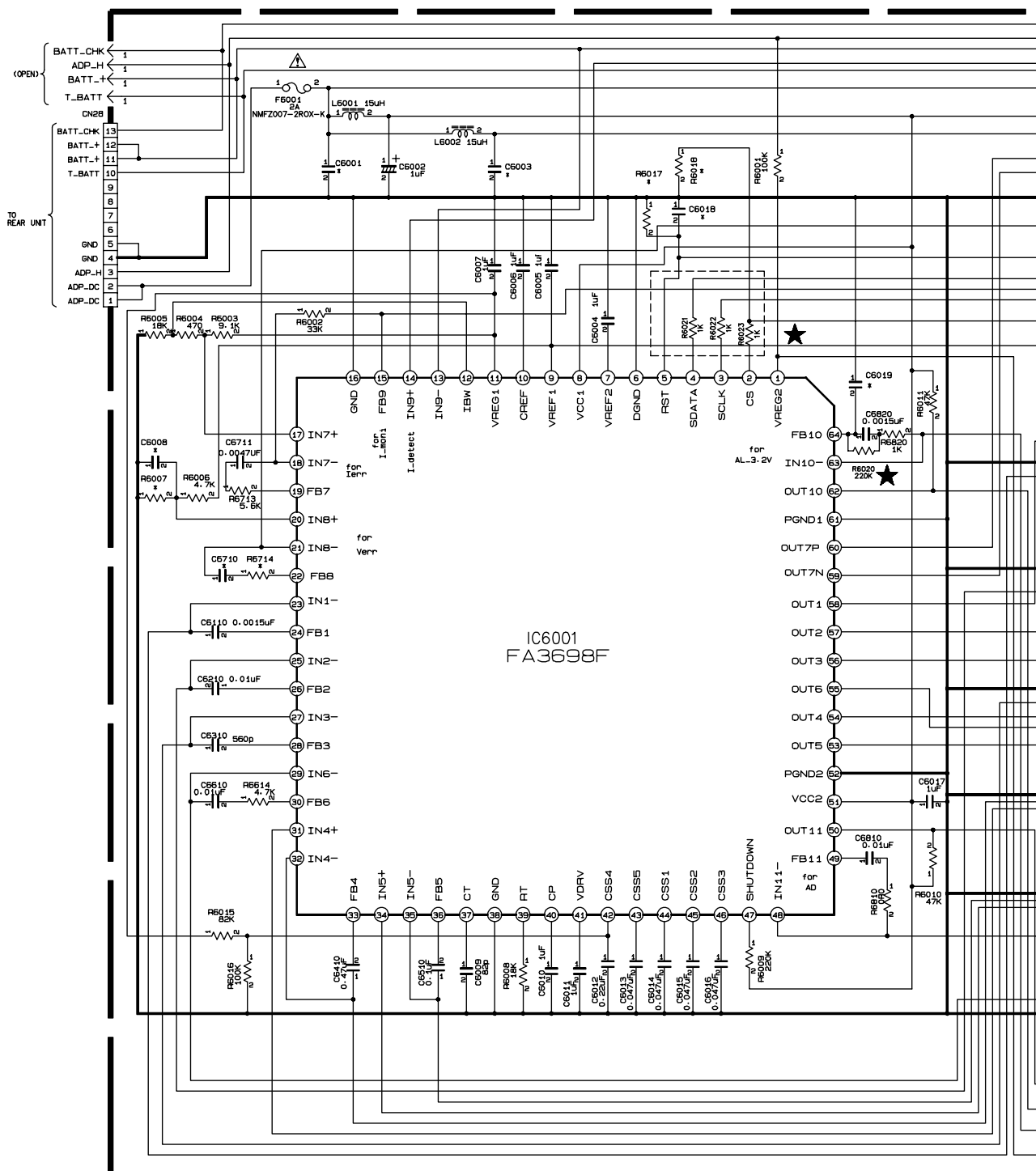


### 4.3 IRIS & AF/ZOOM SCHEMATIC DIAGRAM





#### 4.4 REGULATOR SCHEMATIC DIAGRAM



0 1 MAIN (REG)

NOTE : THE PARTS WITH MARKED (\*) IS NOT USED.  
EXCHANGE LIST

1. LIGHT YES OR NO

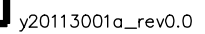
LIGHT	YES	NO
Q6306	exist	open
L6306	exist	open
C6307	exist	open
B6306-6307	exist	open

2. LCD YES OR NO

LCD	YES	NO
Q6307-6308	exist	open
R6309-6311	exist	open
C6308	exist	open
R6312	open	open

### 3. CCD VOLTAGE

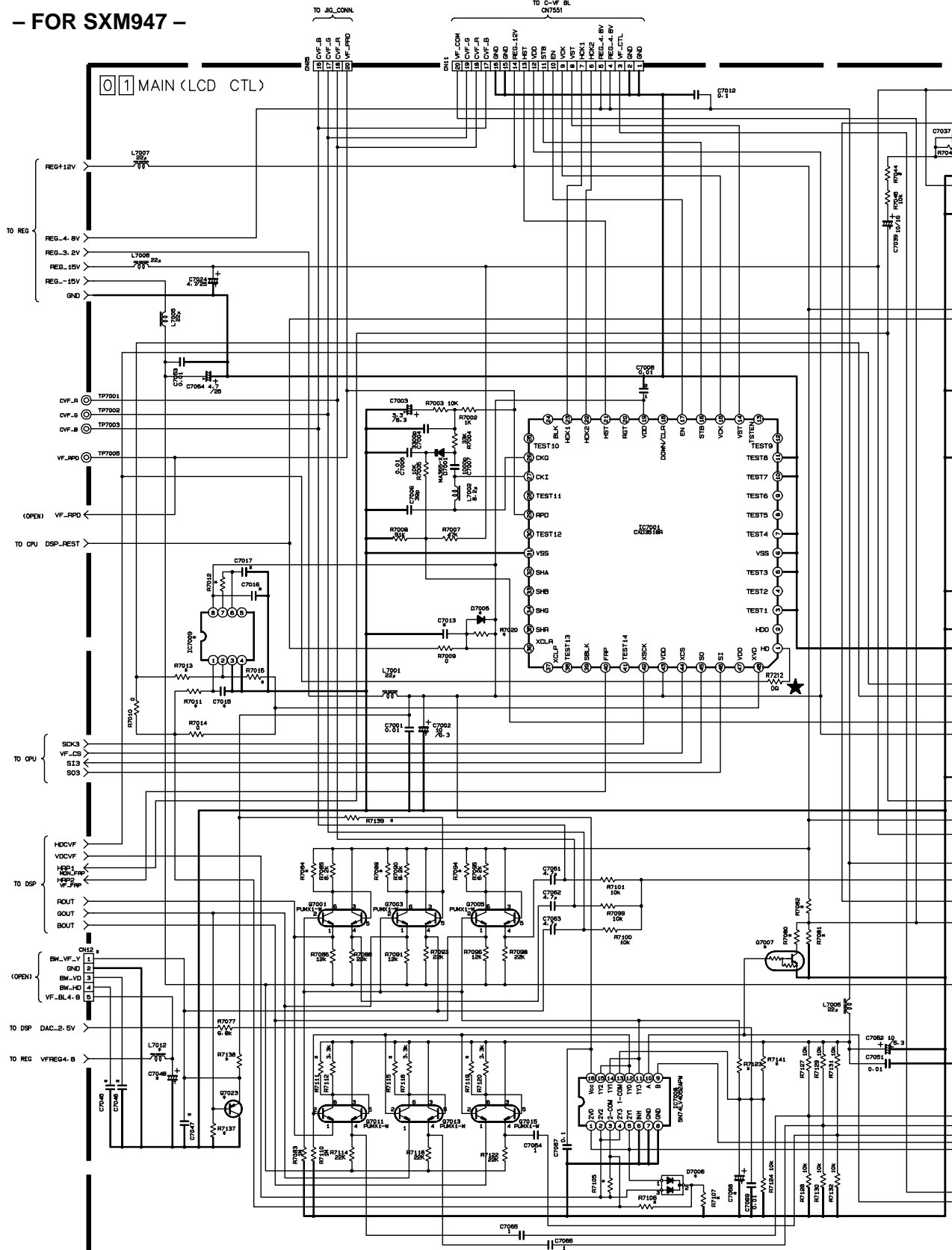
CCD VOLTAGE	PAL		NTSC
picture elements	LOW	others	
memory	NO		
D6616	8.2V	5.1V	8.2V





## 4.5 LCD CTL SCHEMATIC DIAGRAM

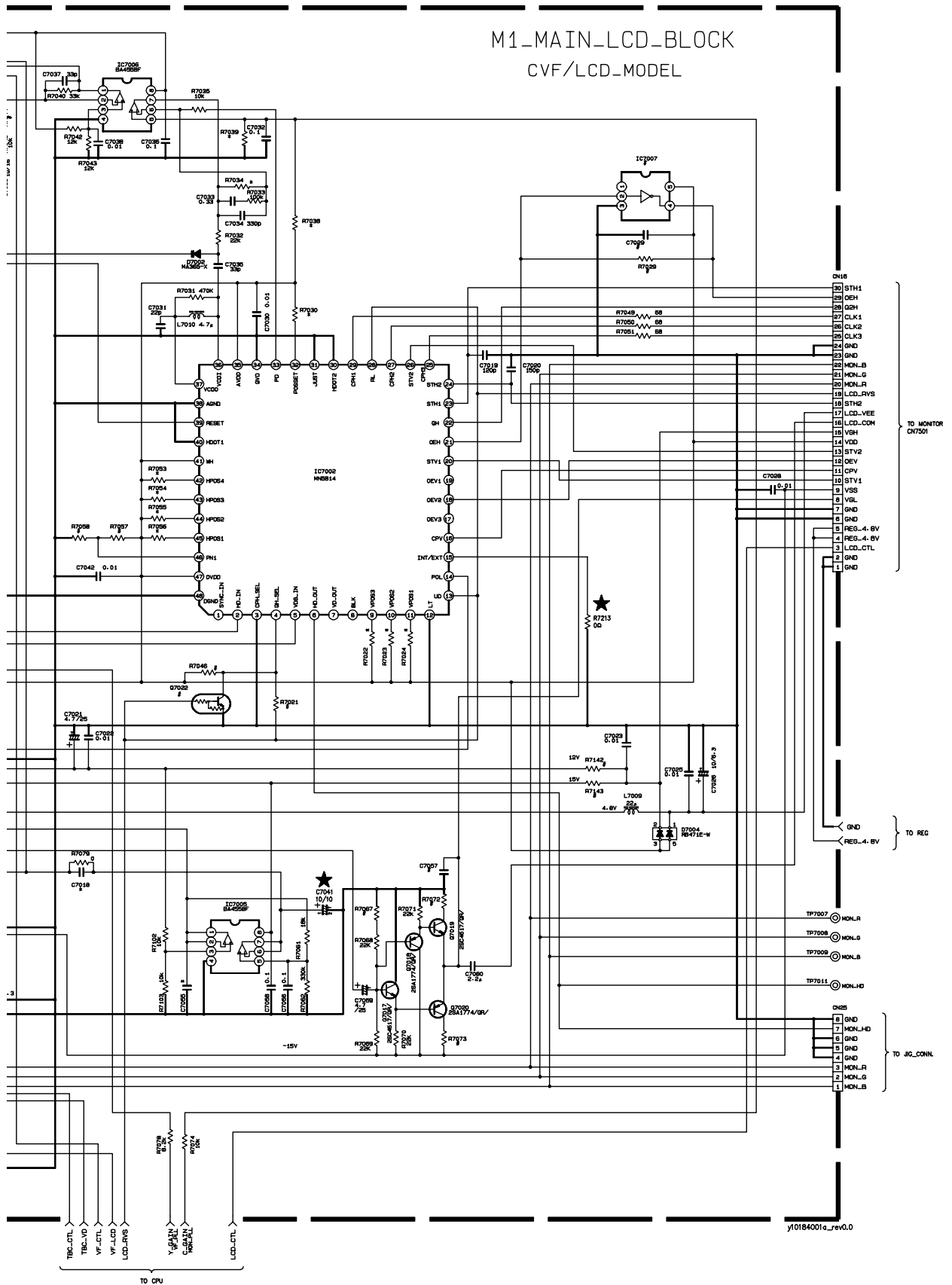
— FOR SXM947 —



EXCHANGE PARTS LIST	IC7007	Q7028	R7081	R7089	R7044	R7046	R7067	R7078	R7073	R7148	R7143	C7029	C7057
2.55mm	TC7804FU	DT144EE	*	*	7.5k	20k	22k	1.5k	330	*	0	0.1	88000
3mm	*	*	0	0	4.3k	*	5.8k	1.2k	820	0	*	*	*

EXCHANGE PARTS LIST	R7067	R7058
NTSC	*	0
PAL	0	*



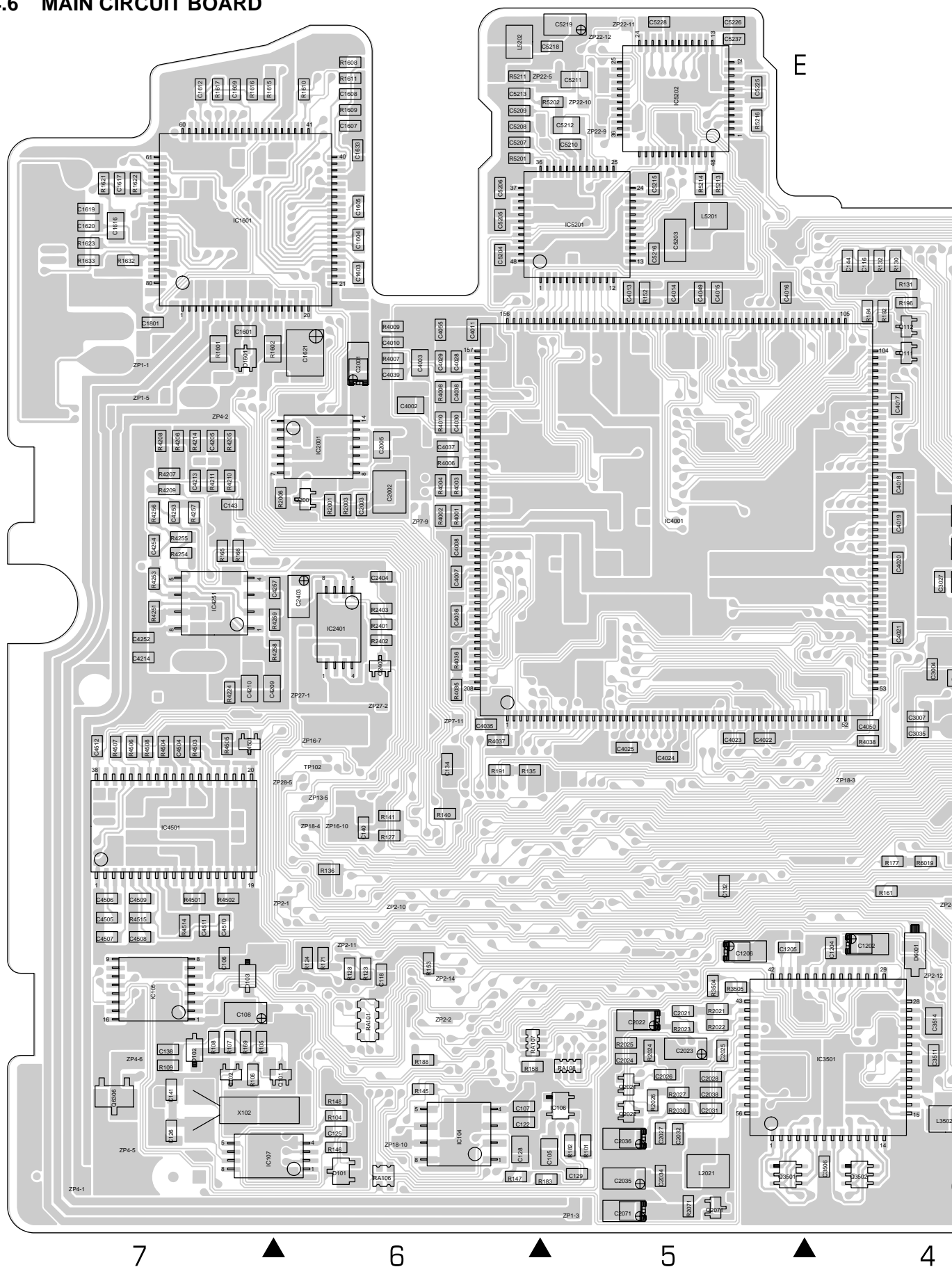
E

F

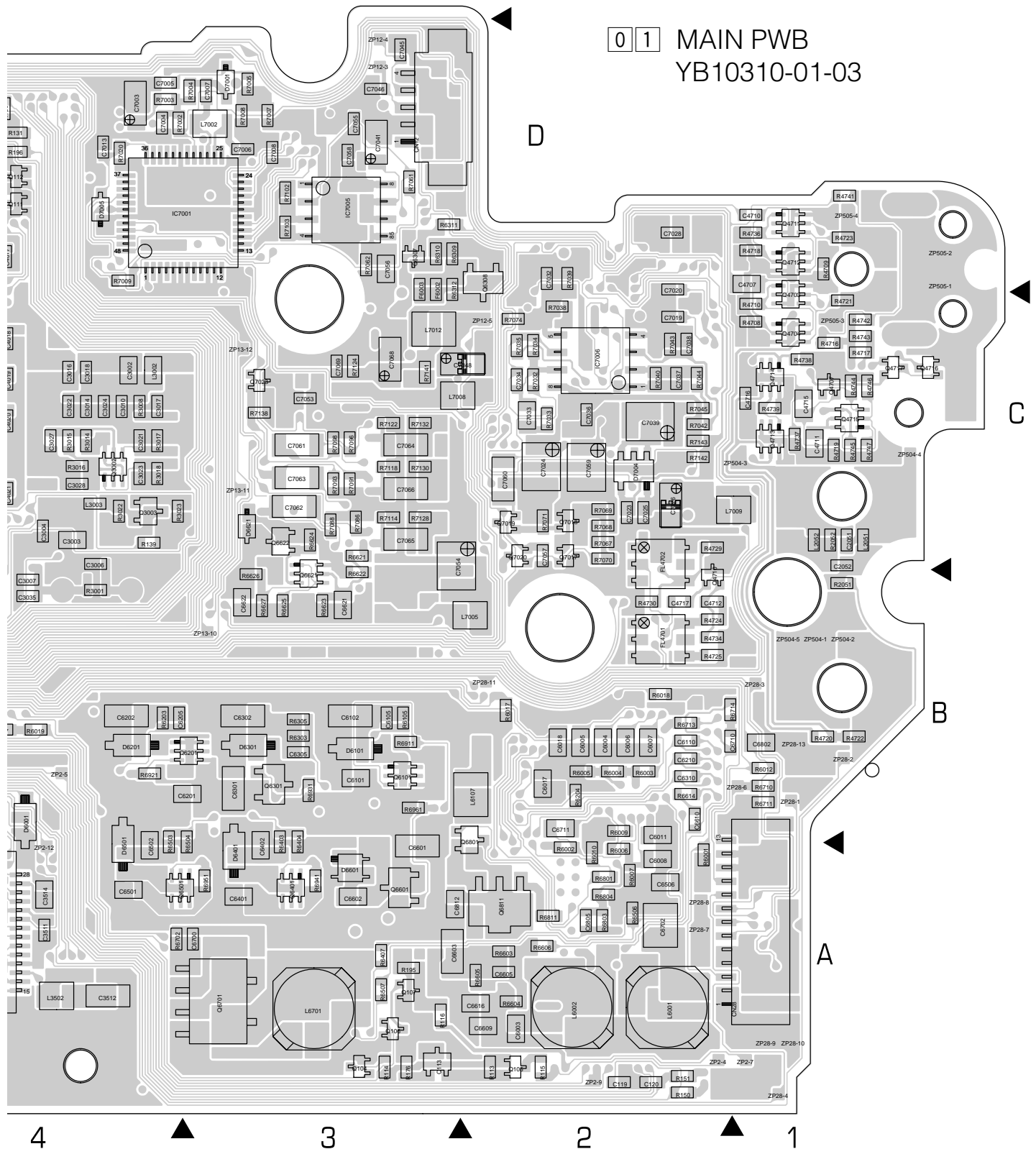
G

H

## 4.6 MAIN CIRCUIT BOARD



**FOIL SIDE (B)**

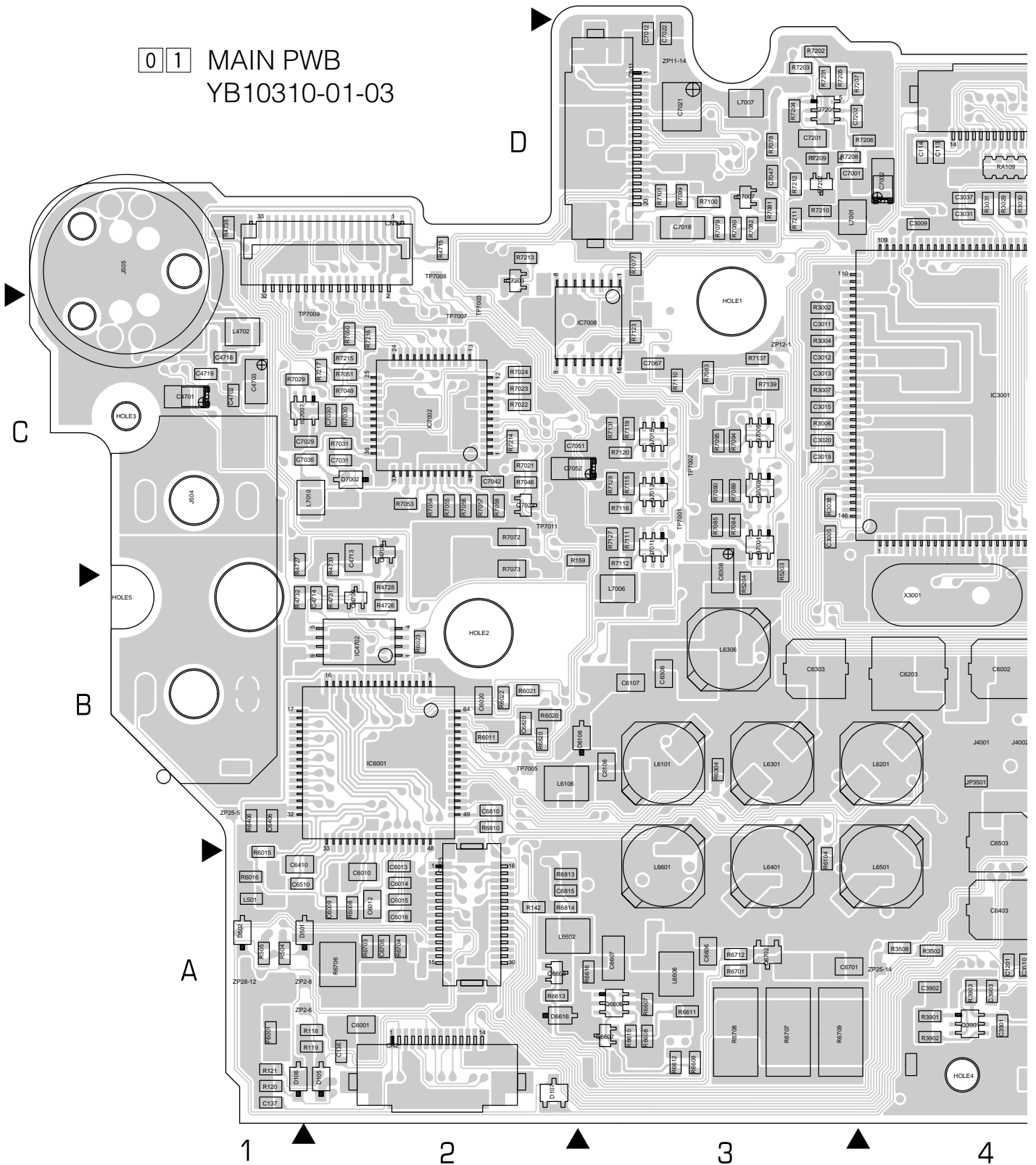


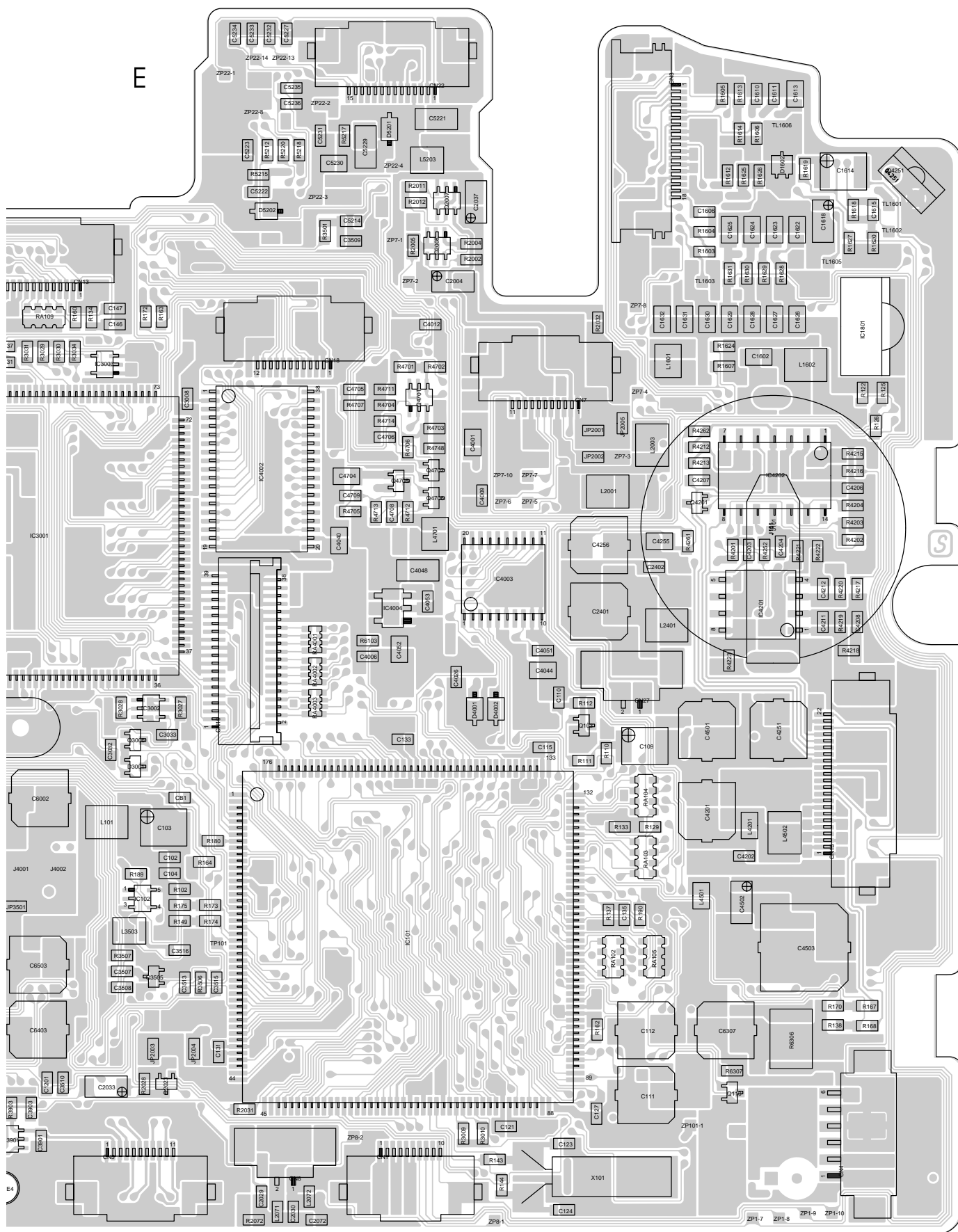
COMPONENT PARTS LOCATION GUIDE (MAIN)

REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION		
CAPACITOR				C2027	B	C	5A	C4036	B	C	6C	C5233	A	C	5E	C7024	B	C	2C	D7004	B	C	2C	Q106	B	C	3A
C102	A	C	5B	C2028	B	C	5A	C4037	B	C	6C	C5234	A	C	5E	C7025	B	C	2C	D7005	B	C	4D	Q107	B	C	3A
C103	A	C	4B	C2029	A	C	5A	C4038	B	C	6D	C5235	A	C	5E	C7026	B	C	2C	IC				Q110	A	C	7A
C104	A	C	5B	C2030	A	C	5A	C4039	B	C	6D	C5236	A	C	5E	C7028	B	C	2D					Q111	B	C	4D
C105	B	C	5A	C2031	B	C	5A	C4040	A	C	5C	C5237	B	C	5E	C7029	A	C	2C	IC101	A	C	5B	Q112	B	C	4D
C106	B	C	7B	C2032	B	C	5A	C4044	A	C	6C	C6001	A	C	2A	C7030	A	C	2C	IC102	A	C	4B	Q113	B	C	3A
C107	B	C	6A	C2033	A	C	4A	C4048	A	C	5C	C6002	A	C	4B	C7031	A	C	2C	IC104	B	C	6A	Q2001	B	C	6C
C108	B	C	7A	C2034	B	C	5A	C4049	B	C	5D	C6003	B	C	2A	C7032	B	C	2D	IC105	B	C	7A	Q2007	A	C	6D
C109	A	C	6B	C2035	B	C	5A	C4050	B	C	4B	C6004	B	C	2B	C7033	B	C	2C	IC106	B	C	5A	Q2008	A	C	6D
C110	A	C	6C	C2036	B	C	5A	C4051	A	C	6C	C6005	B	C	2B	C7034	B	C	2C	IC107	B	C	7A	Q2021	B	C	5A
C111	A	C	6A	C2037	A	C	6D	C4052	A	C	5C	C6006	B	C	2B	C7035	A	C	2C	IC1601	B	C	7D	Q2022	B	C	5A
C112	A	C	6A	C2038	B	C	5A	C4053	A	C	5C	C6007	B	C	2B	C7036	B	C	2C	IC1801	A	D	7D	Q2023	A	C	4A
C113	A	C	4D	C2051	B	C	1C	C4055	B	C	6D	C6008	B	C	2A	C7037	B	C	2C	IC2001	B	C	6C	Q2071	B	C	5A
C114	A	C	4D	C2052	B	C	1C	C4201	A	C	7B	C6009	A	C	2A	C7038	B	C	2C	IC2401	B	C	6C	Q2401	B	C	6C
C115	A	C	6B	C2071	B	C	5A	C4202	A	C	7B	C6010	A	C	2A	C7039	B	C	2C	IC3001	A	C	4C	Q3002	B	C	4C
C116	B	C	4D	C2072	A	C	5A	C4203	A	C	7C	C6011	B	C	2B	C7041	B	C	3D	IC3002	A	C	4B	Q3003	B	C	4C
C118	B	C	6A	C2401	A	C	6C	C4204	A	C	7C	C6012	A	C	2A	C7042	A	C	2C	IC3003	A	C	4D	Q3006	A	C	4B
C119	B	C	2A	C2402	A	C	6C	C4205	B	C	7C	C6013	A	C	2A	C7045	B	C	3D	IC3501	B	C	4A	Q3501	B	C	5A
C120	B	C	2A	C2403	B	C	6C	C4206	A	C	7C	C6014	A	C	2A	C7046	B	C	3D	IC4001	B	C	5C	Q3502	B	C	4A
C1201	A	C	4A	C2404	B	C	6C	C4207	A	C	7C	C6015	A	C	2A	C7047	A	C	3D	IC4002	A	C	5C	Q3505	A	C	4A
C1202	B	C	4B	C3002	B	C	4C	C4208	A	C	7C	C6016	A	C	2A	C7048	B	C	2C	IC4003	A	C	6C	Q3901	A	C	4A
C1204	B	C	4B	C3003	B	C	4C	C4209	B	C	7C	C6017	B	C	2B	C7051	A	C	2C	IC4004	A	C	5C	Q4201	A	C	6C
C1205	B	C	5B	C3004	B	C	4C	C4210	B	C	7C	C6018	B	C	2B	C7052	A	C	2C	IC4201	A	C	7C	Q4251	A	D	7D
C1206	B	C	5B	C3005	A	C	3C	C4211	A	C	7C	C6020	A	C	2B	C7053	B	C	3C	IC4202	A	C	7C	Q4501	B	C	7B
C121	A	C	6A	C3006	B	C	4C	C4212	A	C	7C	C6101	B	C	3B	C7054	B	C	3C	IC4251	B	C	7C	Q4701	A	C	5D
C122	B	C	6A	C3007	B	C	4B	C4213	B	C	7C	C6102	B	C	3B	C7055	B	C	3D	IC4501	B	C	7B	Q4702	A	C	6C
C123	A	C	6A	C3008	A	C	5D	C4214	B	C	7C	C6105	B	C	3B	C7056	B	C	3D	IC4702	A	C	2B	Q4703	B	C	1C
C124	A	C	6A	C3009	A	C	4D	C4251	A	C	7B	C6106	A	C	3B	C7057	B	C	2C	IC5201	B	C	5D	Q4704	B	C	1C
C125	B	C	6A	C3010	B	C	4C	C4252	B	C	7C	C6107	A	C	3B	C7058	B	C	3D	IC5202	B	C	5E	Q4705	A	C	5C
C126	B	C	7A	C3011	A	C	3C	C4253	B	C	7C	C6110	B	C	2B	C7059	B	C	2C	IC6001	A	C	2B	Q4706	A	C	6C
C127	A	C	6A	C3012	A	C	3C	C4254	B	C	7C	C6201	B	C	3B	C7060	B	C	2C	IC7001	B	C	4D	Q4707	B	C	1C
C128	B	C	6A	C3013	A	C	3C	C4255	A	C	6C	C6202	B	C	4B	C7061	B	C	3C	IC7002	A	C	2C	Q4708	A	C	2C
C129	B	C	5A	C3014	B	C	4C	C4256	A	C	6C	C6203	A	C	4B	C7062	B	C	3C	IC7005	B	C	3D	Q4709	A	C	2B
C131	A	C	5A	C3015	A	C	3C	C4257	B	C	6C	C6205	B	C	4B	C7063	B	C	3C	IC7006	B	C	2C	Q4710	B	C	2B
C132	B	C	5B	C3016	B	C	4C	C4501	A	C	7B	C6210	B	C	2B	C7064	B	C	3C	IC7007	A	C	1C	Q4711	B	C	1D
C133	A	C	5B	C3017	B	C	4C	C4502	A	C	7B	C6301	B	C	3B	C7065	B	C	3C	IC7008	A	C	3C	Q4712	B	C	1D
C134	B	C	6B	C3018	B	C	4C	C4503	A	C	7B	C6302	B	C	3B	C7066	B	C	3C	COIL			Q4713	B	C	1C	
C135	A	C	6B	C3019	A	C	3C	C4504	B	C	7B	C6303	A	C	3B	C7067	A	C	3C				Q4714	B	C	1C	
C136	A	C	2A	C3020	A	C	3C	C4505	B	C	7B	C6305	B	C	3B	C7068	B	C	3C	L101	A	C	4B	Q4715	B	C	1C
C137	A	C	1A	C3021	B	C	4C	C4506	B	C	7B	C6306	A	C	3B	C7069	B	C	3C	L1601	A	C	6D	Q4716	B	C	1C
C138	B	C	7A	C3022	B	C	4C	C4507	B	C	7B	C6307	A	C	7A	C7201	A	C	3D	L1602	A	C	7D	Q4717	B	C	1C
C140	B	C	6B	C3023	B	C	4C	C4508	B	C	7B	C6308	A	C	3C	C7202	A	C	3D	L2001	A	C	6C	Q6101	B	C	3B
C141	B	C	7A	C3024	B	C	4C	C4509	B	C	7B	C6310	B	C	2B	CB1	A	C	5B	L2003	A	C	6C	Q6201	B	C	3B
C143	B	C	7C	C3027	B	C	4C	C4510	B	C	7B	C6401	B	C	3A	CONNECTOR			L2021	B	C	5A	Q6301	B	C	3B	
C144	B	C	4D	C3028	B	C	4C	C4511	B	C	7B	C6402	B	C	3A				L2051	B	C	1C	Q6306	B	C	7A	
C146	A	C	4D	C3031	A	C	4D	C4512	B	C	7B	C6403	A	C	4A	CN1	A	C	5A	L2052	B	C	1C	Q6307	B	C	3D
C147	A	C	4D	C3032	A	C	4B	C4701	A	C	1C	C6406	A	C	1B	CN11	A	C	3D	L2071	A	C	5A	Q6308	B	C	2D
C1601	B	C	7D	C3033	A	C	4B	C4702	A	C	1C	C6410	A	C	1A	CN12	B	C	3D	L2072	A	C	5A	Q6401	B	C	3A
C1602	A	C	7D	C3035	B	C	4B	C4703	A	C	1C	C6501	B	C	4A	CN13	A	C	4D	L2401	A	C	6C	Q6501	B	C	4A
C1603	B	C	6D	C3037	A	C	4D	C4704	A	C	5C	C6502	B	C	4A	CN15	A	C	7B	L3002	B	C	4C	Q6601	B	C	3A
C1604	B	C	6D	C3506	B	C	4A	C4705	A	C	5D	C6503	A	C	4B	CN16	A	C	2D	L3003	B	C	4C	Q6606	A	C	3A
C1605	B	C	6D	C3507	A	C	4A	C4706	A	C	5D	C6506	B	C	2A	CN18	A	C	5D	L3502	B	C	4A	Q6607	A	C	3A
C1606	A	C	7D	C3508	A	C	4A	C4707	B	C	1D	C6510	A	C	1A	CN19	A	C	5B	L3503	A	C	4B	Q6608	A	C	2A
C1607	B	C	6E	C3509	A	C	5D	C4708	A	C	5C	C6601	B	C	3A	CN2	A	C	2A	L4201	A	C	7B	Q6621	B	C	

REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION			REF.No.	LOCATION		
R118	A	C	2A	R184	B	C	4D	R4214	B	C	7C	R5218	A	C	5E	R7002	B	C	4D	R7142	B	C	2C	2P1-7	A	C	7A
R119	A	C	2A	R188	B	C	6A	R4215	A	C	7C	R5220	A	C	5E	R7003	B	C	4D	R7143	B	C	2C	2P1-8	A	C	7A
R120	A	C	1A	R189	A	C	4B	R4216	A	C	7C	R6001	B	C	2A	R7004	B	C	3D	R7201	A	C	3D	2P18-10	B	C	6A
R121	A	C	1A	R190	A	C	6B	R4217	A	C	7C	R6002	B	C	2A	R7005	B	C	3D	R7202	A	C	3D	2P18-3	B	C	4B
R122	A	C	7D	R191	B	C	6B	R4218	A	C	7C	R6003	B	C	2B	R7007	B	C	3D	R7203	A	C	3D	2P18-4	B	C	6B
R123	B	C	6A	R192	B	C	4D	R4219	A	C	7C	R6004	B	C	2B	R7008	B	C	3D	R7204	A	C	3D	2P1-9	A	C	7A
R124	B	C	6B	R195	B	C	3A	R4220	A	C	7C	R6005	B	C	2B	R7009	B	C	4D	R7205	A	C	3D	2P2-1	B	C	6B
R125	A	C	7D	R196	B	C	4D	R4221	A	C	7C	R6006	B	C	2A	R7020	B	C	4D	R7206	A	C	4D	2P2-10	B	C	6B
R126	A	C	7D	R2001	B	C	6C	R4222	A	C	7C	R6007	B	C	2A	R7021	A	C	2C	R7207	A	C	3D	2P2-11	B	C	6B
R127	B	C	6B	R2002	A	C	6D	R4223	A	C	7C	R6008	A	C	2A	R7022	A	C	2C	R7208	A	C	3D	2P2-12	B	C	4A
R128	B	C	6A	R2003	B	C	6C	R4224	B	C	7C	R6009	B	C	2B	R7023	A	C	2C	R7209	A	C	3D	2P2-14	B	C	6A
R129	A	C	6B	R2004	A	C	6D	R4251	B	C	7C	R6010	B	C	2A	R7024	A	C	2C	R7210	A	C	3D	2P2-2	B	C	6A
R130	B	C	4D	R2005	A	C	5D	R4252	A	C	7C	R6011	A	C	2B	R7029	A	C	1C	R7211	A	C	3D	2P22-1	A	C	5E
R131	B	C	4D	R2006	B	C	6C	R4253	B	C	7C	R6012	B	C	1B	R7030	A	C	2C	R7212	A	C	3D	2P22-10	B	C	5E
R132	B	C	4D	R2011	A	C	5D	R4254	B	C	7C	R6015	A	C	1A	R7031	A	C	2C	R7213	A	C	2D	2P22-11	B	C	5E
R133	A	C	6B	R2012	A	C	5D	R4255	B	C	7C	R6016	A	C	1A	R7032	B	C	2C	R7214	A	C	2C	2P22-12	B	C	5E
R134	A	C	4D	R2021	B	C	5A	R4256	B	C	7C	R6017	B	C	2B	R7033	B	C	2C	R7215	A	C	2C	2P22-13	A	C	5E
R135	B	C	6B	R2022	B	C	5A	R4257	B	C	7C	R6018	B	C	2B	R7034	B	C	2C	R7216	A	C	2C	2P22-14	A	C	5E
R136	B	C	6B	R2023	B	C	5A	R4258	B	C	6C	R6019	B	C	4B	R7035	B	C	2C	R7217	A	C	2C	2P22-2	A	C	5E
R137	A	C	6B	R2024	B	C	5A	R4259	B	C	6C	R6020	A	C	2B	R7038	B	C	2C	RA101	B	C	6A	2P22-3	A	C	5D
R138	A	C	7A	R2025	B	C	5A	R4261	A	C	6C	R6021	A	C	2B	R7039	B	C	2D	RA102	A	C	6B	2P22-4	A	C	5E
R139	B	C	4C	R2026	B	C	5A	R4262	A	C	7D	R6022	A	C	2B	R7040	B	C	2C	RA103	A	C	6B	2P22-5	B	C	5E
R140	B	C	6B	R2027	B	C	5A	R4501	B	C	7B	R6023	A	C	2B	R7042	B	C	2C	RA104	A	C	6B	2P22-8	A	C	5E
R141	B	C	6B	R2028	A	C	4A	R4502	B	C	7B	R6103	A	C	5C	R7043	B	C	2C	RA105	A	C	6B	2P22-9	B	C	5E
R142	A	C	2A	R2030	B	C	5A	R4503	B	C	7B	R6104	A	C	3A	R7044	B	C	2C	RA106	B	C	6A	2P2-4	B	C	2A
R143	A	C	6A	R2031	A	C	5A	R4504	B	C	7B	R6105	B	C	3B	R7045	B	C	2C	RA107	B	C	6A	2P2-5	B	C	4B
R144	A	C	6A	R2032	A	C	6D	R4505	B	C	7B	R6203	B	C	4B	R7046	A	C	2C	RA108	B	C	5A	2P25-14	A	C	4A
R145	B	C	6A	R2051	B	C	1B	R4506	B	C	7B	R6204	B	C	2B	R7049	A	C	2C	RA109	A	C	4D	2P25-5	A	C	1B
R146	B	C	6A	R2052	B	C	1C	R4507	B	C	7B	R6303	B	C	3B	R7050	A	C	2C	RA4001	A	C	5C	2P2-6	A	C	1A
R147	B	C	6A	R2071	B	C	5A	R4508	B	C	7B	R6304	A	C	3B	R7051	A	C	2C	RA4002	A	C	5C	2P2-7	B	C	1A
R148	B	C	6A	R2072	A	C	5A	R4514	B	C	7B	R6305	B	C	3B	R7053	A	C	2C	RA4003	A	C	5C	2P27-1	B	C	6C
R149	A	C	5B	R2401	B	C	6C	R4515	B	C	7B	R6306	A	C	7A	R7054	A	C	2C	TEST POINT			2P27-2	B	C	6B	
R150	B	C	2A	R2402	B	C	6C	R4701	A	C	5D	R6307	A	C	7A	R7055	A	C	2C				2P2-8	A	C	1A	
R151	B	C	2A	R2403	B	C	6C	R4702	A	C	6D	R6309	B	C	3D	R7056	A	C	2C	TP101	A	C	5B	2P28-1	B	C	1B
R152	B	C	5D	R3001	B	C	4B	R4703	A	C	6D	R6310	B	C	3D	R7057	A	C	2C	TP102	B	C	6B	2P28-10	B	C	1A
R153	B	C	6B	R3002	A	C	3C	R4704	A	C	5D	R6311	B	C	3D	R7058	A	C	2C	TP7001	A	C	3C	2P28-11	B	C	2B
R158	B	C	6A	R3004	A	C	3C	R4705	A	C	5C	R6312	B	C	3D	R7061	B	C	3D	TP7002	A	C	3C	2P28-12	A	C	1A
R159	A	C	2C	R3006	A	C	3C	R4706	A	C	5C	R6403	B	C	3A	R7062	B	C	3D	TP7003	A	C	2C	2P28-13	B	C	1B
R160	A	C	4D	R3007	A	C	3C	R4707	A	C	5D	R6404	B	C	3A	R7067	B	C	2C	TP7005	A	C	2B	2P28-2	B	C	1B
R1601	B	C	7D	R3008	B	C	4C	R4708	B	C	1C	R6406	A	C	1B	R7068	B	C	2C	TP7007	A	C	2C	2P28-3	B	C	1B
R1602	B	C	7D	R3009	A	C	6A	R4709	B	C	1D	R6407	B	C	3A	R7069	B	C	2C	TP7008	A	C	2D	2P28-4	B	C	1A
R1603	A	C	7D	R3010	A	C	6A	R4710	B	C	1C	R6503	B	C	4A	R7070	B	C	2C	TP7009	A	C	2C	2P28-5	B	C	6B
R1604	A	C	7D	R3014	B	C	4C	R4711	A	C	5D	R6504	B	C	3A	R7071	B	C	2C	TP7011	A	C	2C	2P28-6	B	C	1B
R1605	A	C	7E	R3015	B	C	4C	R4712	A	C	5C	R6506	B	C	2A	R7072	A	C	2C	OTHER			2P28-7	B	C	2A	
R1606	A	C	7E	R3016	B	C	4C	R4713	A	C	5C	R6507	B	C	3A	R7073	A	C	2C				2P28-8	B	C	2A	
R1607	A	C	7D	R3017	B	C	4C	R4714	A	C	5D	R6603	B	C	2A	R7074	B	C	2C	F6001	A	C	1A	2P28-9	B	C	1A
R1608	B	C	6E	R3018	B	C	4C	R4715	A	C	2D	R6604	B	C	2A	R7077	A	C	3D	F6002	B	C	3D	2P2-9	B	C	2A
R1609	B	C	6E	R3022	B	C	4C	R4716	B	C	1C	R6605	B	C	2A	R7078	A	C	3D	F6003	B	C	3D	2P4-1	B	C	7A
R161	B	C	4B	R3023	B	C	4C	R4717	B	C	1C	R6606	B	C	2A	R7079	A	C	3D	FL4701	B	C	2B	2P4-2	B	C	7D
R1610	B	C	6E	R3027	A	C	5B	R4718	B	C	1D	R6607	A	C	3A	R7080	A	C	3D	FL4702	B	C	2C	2P4-5	B	C	7A
R1611	B	C	6E	R3028	A	C	4B	R4719	B	C	1C	R6608	A	C	3A	R7081	A	C	3D	J101	A	D	7C	2P4-6	B	C	7A
R1612	A	C	7D	R3029	A	C	4D	R4720	B	C	1B	R6609	A	C	3A	R7082	A	C	3D	J4001	A	C	4B	2P504-1	B	C	1B
R1613	A	C	7E	R3030	A	C	4D	R4721	B	C	1C	R6610</															

01 MAIN PWB  
YB10310-01-03





4

5

6

7