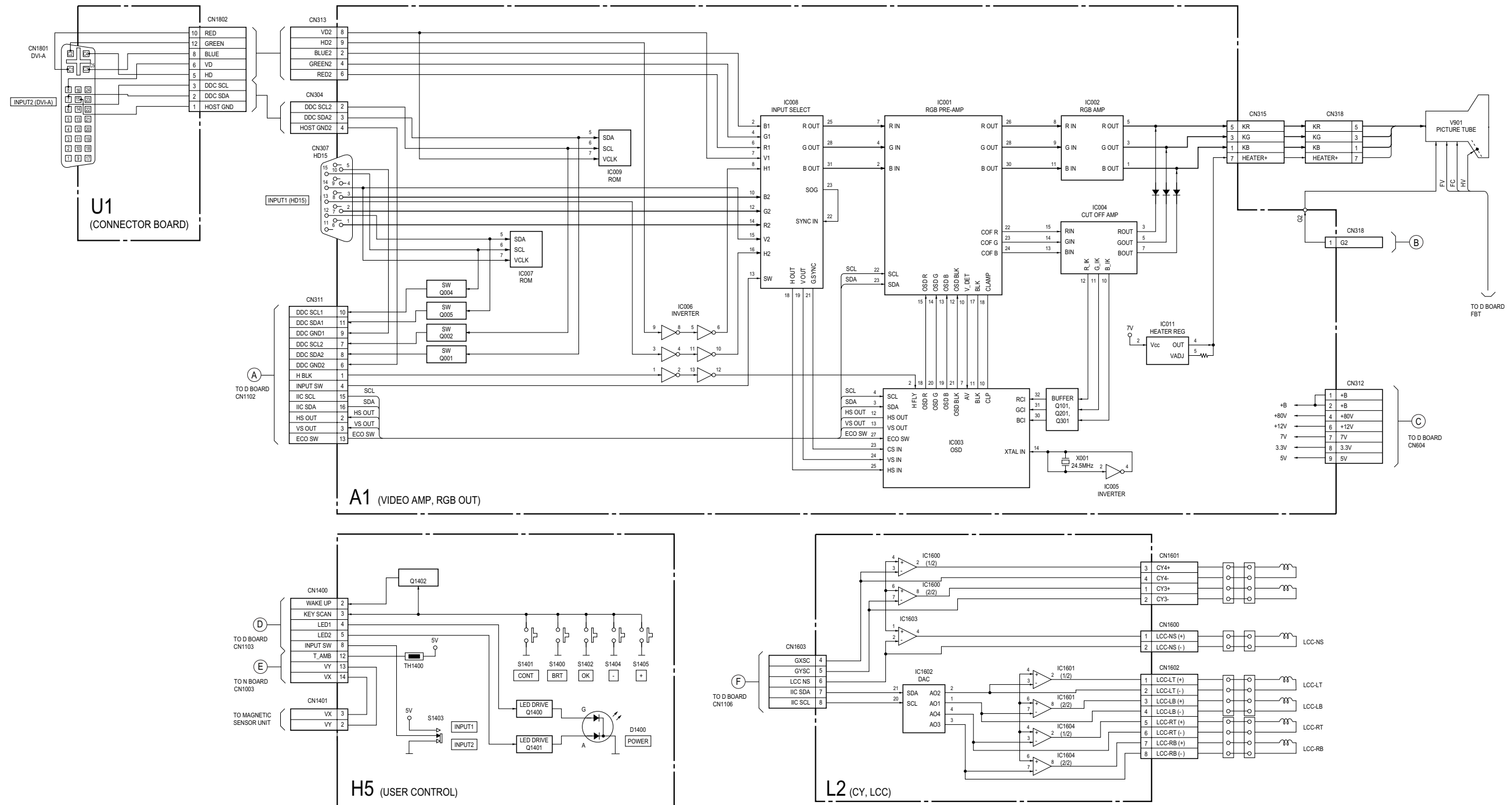
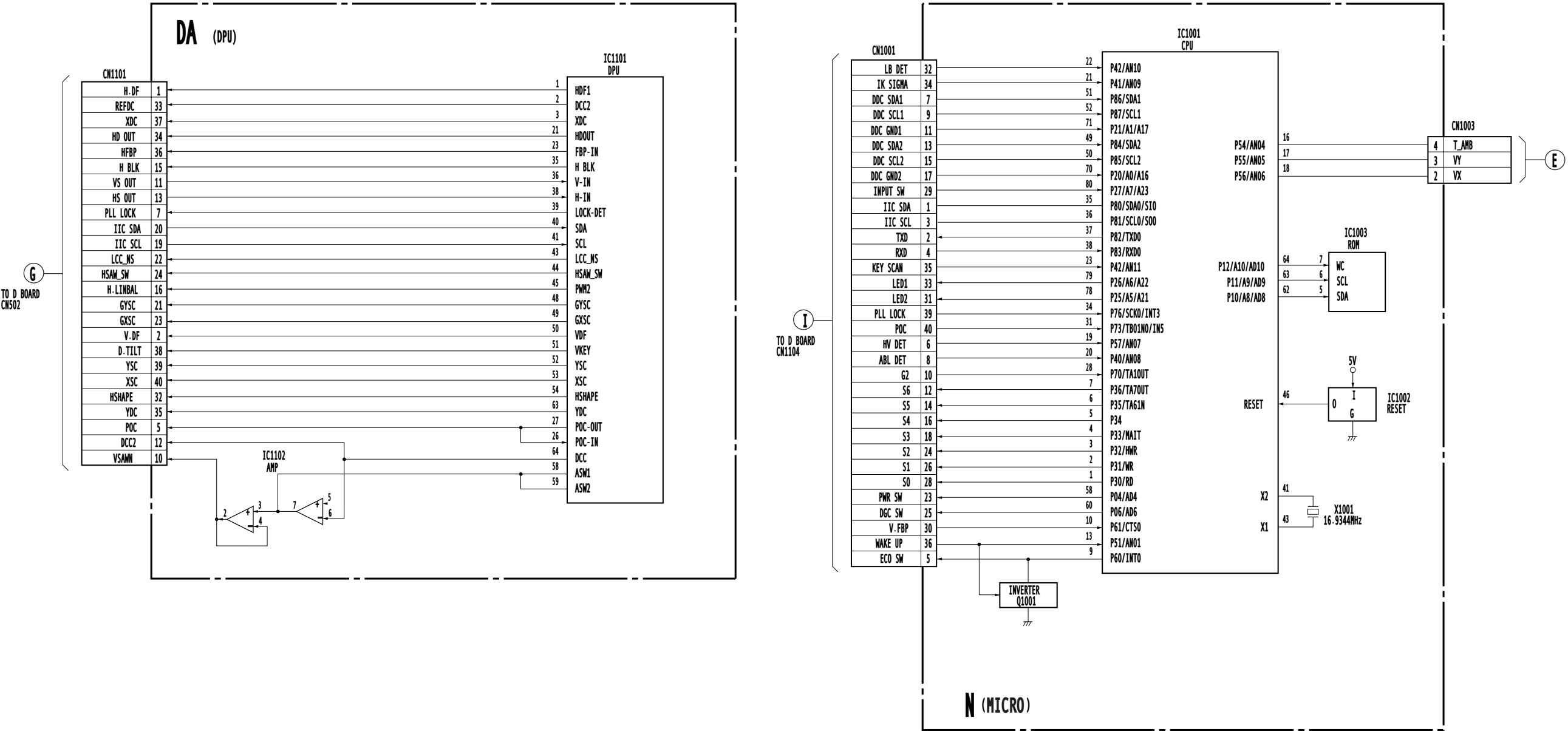


4-3. BLOCK DIAGRAMS

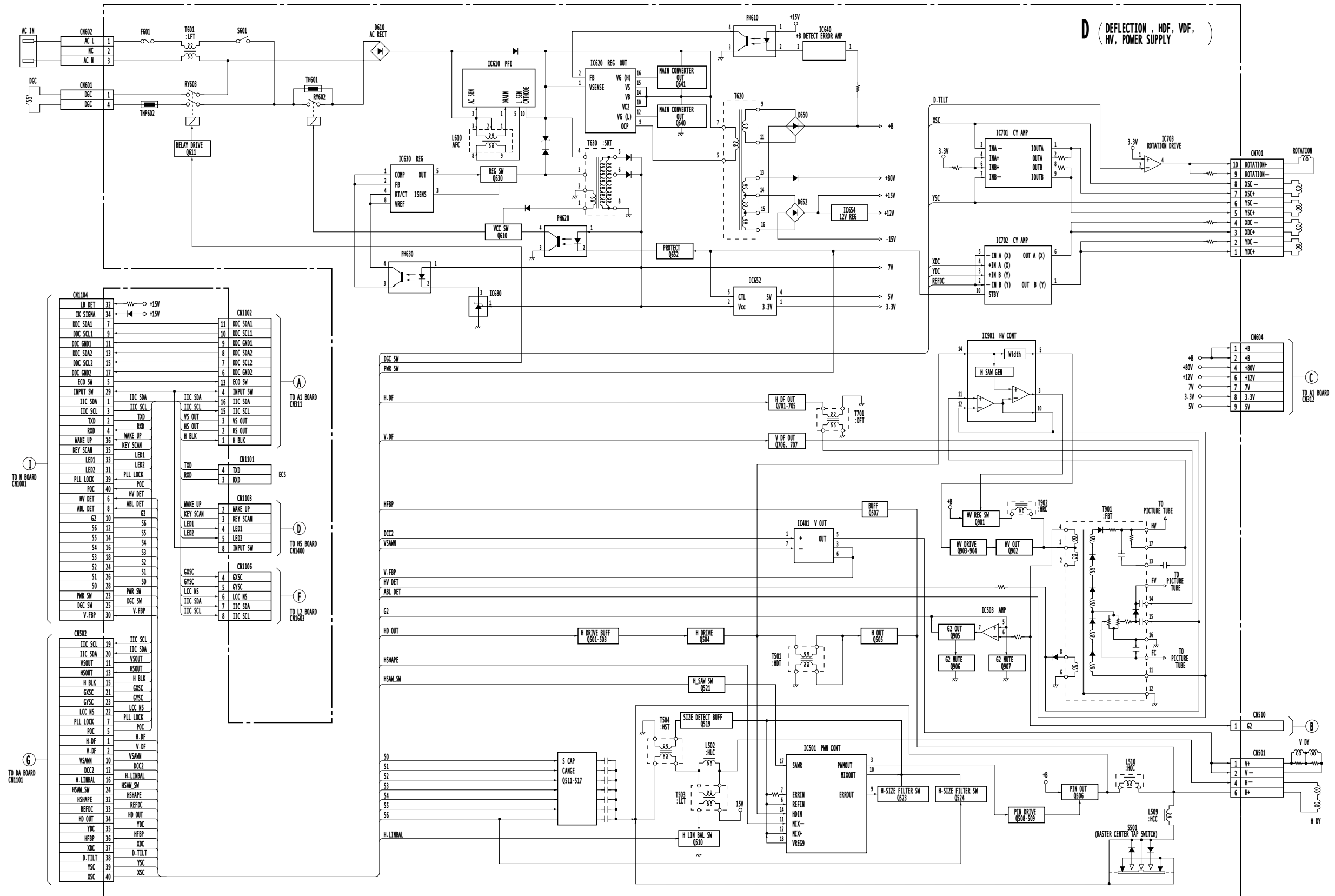
U1 BLOCK DIAGRAM, A1 BLOCK DIAGRAM, H5 BLOCK DIAGRAM, AND L2 BLOCK DIAGRAM



DA BLOCK DIAGRAM AND N BLOCK DIAGRAM

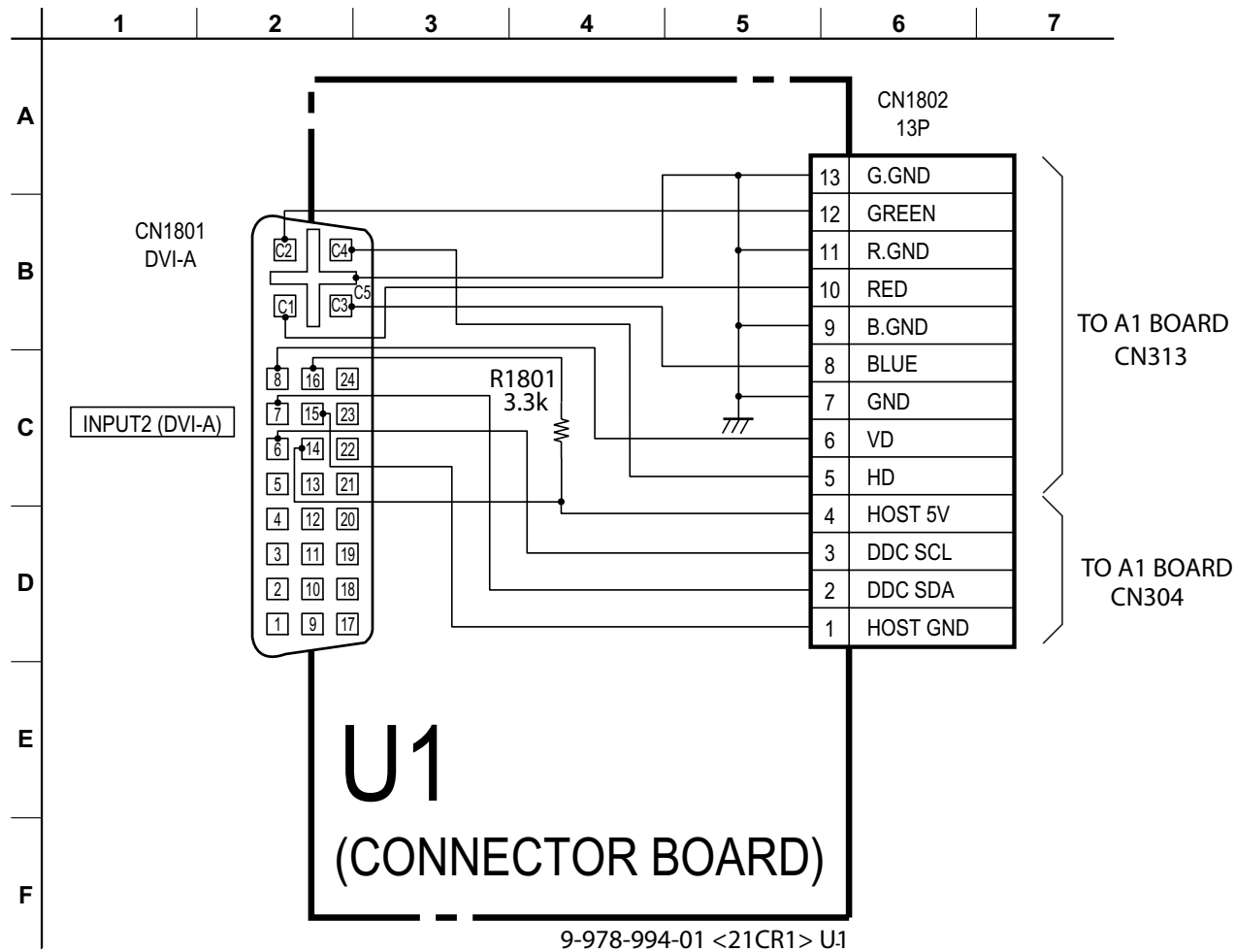


D BLOCK DIAGRAM

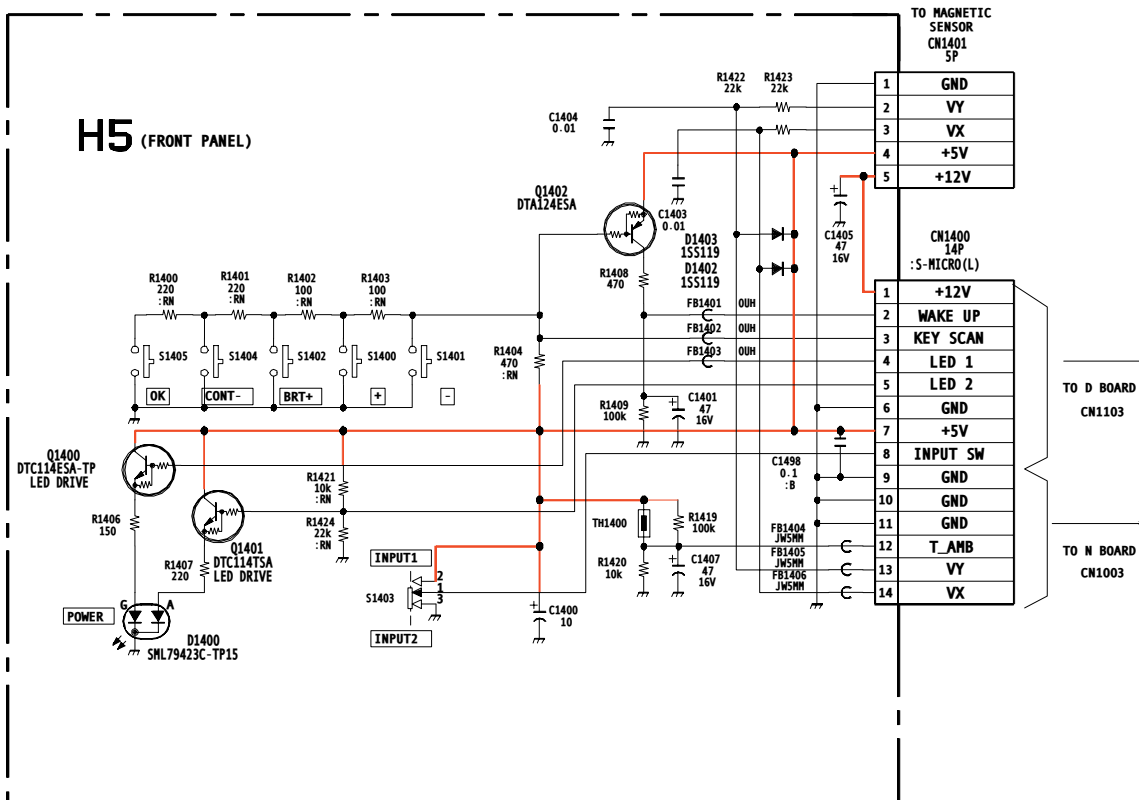


4-4. SCHEMATICS AND SUPPORTING INFORMATION

U1 BOARD SCHEMATIC DIAGRAM

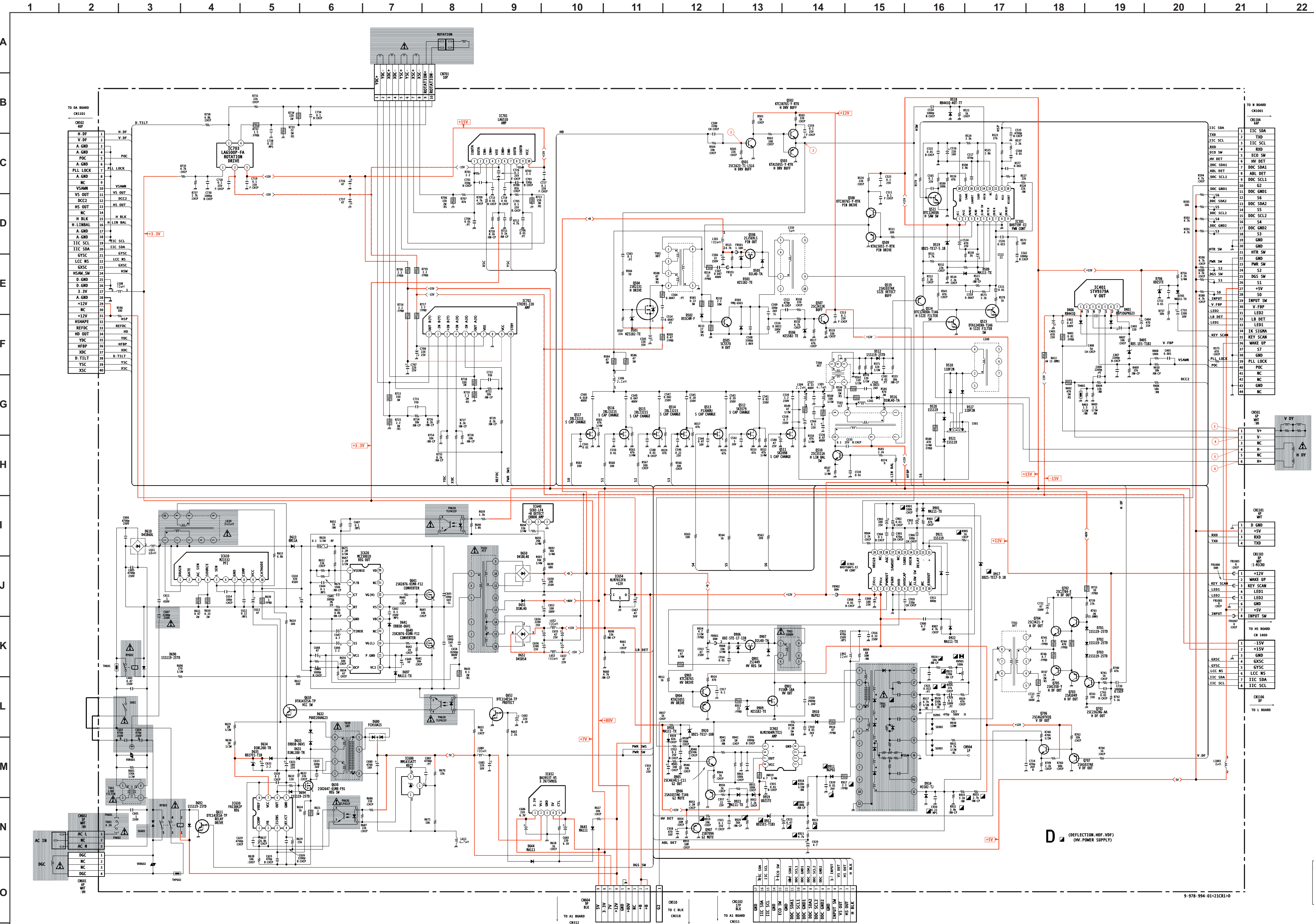


H5 (FRONT PANEL)



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D BOARD SCHEMATIC DIAGRAM



D BOARD IC VOLTAGE LIST

IC401		IC620		IC654		IC901	
pin	volt	pin	volt	pin	volt	pin	volt
1	0.7	1	1.5	1	15.0	1	12.0
2	15.0	2	2.0	2	GND	2	12.0
3	-13.4	3	2.1	3	O 12.0	3	8.7
4	-15.0	4	2.3	IC680		4	GND
5	0.6	5	GND	pin	volt	5	8.6
6	14.3	6	-0.1	1	2.0	6	8.6
7	0.7	7	4.4	2	GND	7	NC
IC501		8	15.1	3	4.9	8	GND
pin	volt	9	0.0	IC701		9	NC
1	15	10	10.2	pin	volt	10	3.8
2	15	11	GND	1	1.5	11	0.0
3	10.1	12	4.4	2	1.5	12	8.9
4	GND	13	NC	3	1.5	13	0.0
5	8	14	200.0	4	1.5	14	5.4
6	4.7	15	190.3	5	-15.0	15	GND
7	4.7	16	194.7	6	1.5	16	NC
8	GND	17	NC	7	1.5	17	2.5
9	3	18	NC	8	0.2	18	2.6
10	3.8	IC630		9	0.2	19	NC
11	3.2	pin	volt	10	15.0	20	9.1
12	3.2	1	0.0	IC902		pin	volt
13	GND	2	0.0	pin	volt	1	-0.1
14	0.5	3	-0.1	1	0.0	2	-0.1
15	GND	4	20.0	2	0.8	3	GND
16	3.7	5	GND	3	0.8	4	GND
17	2.6	6	1.4	4	0.8	5	3.8
18	9	7	16.1	5	0.8	6	3.8
IC610		8	4.8	6	-0.1	7	8.6
pin	volt	IC640		7	-15.0	8	15.0
1	90.7	pin	volt	8	GND	IC703	
2	NC	1	7.1	9	15.0	pin	volt
3	90.4	2	12.8	10	4.8	1	1.2
4	0	3	GND	IC652		2	3.3
5	2.2	pin	volt	pin	volt	3	7.0
6	NC	1	1.2	1	1.2	4	0.2
7	GND	2	3.3	2	1.2	5	15.0
8	2.2	3	7.0	3	-15.0		
9	14.6	4	GND	4	0.2		
10	378	5	6.7	5	15.0		

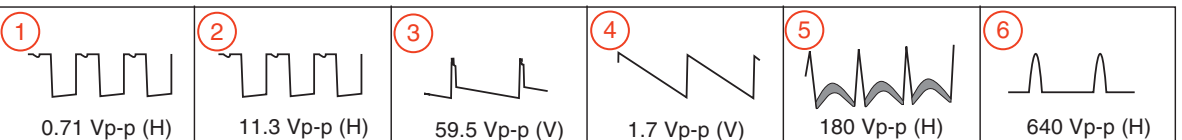
All voltages are in V

D BOARD TRANSISTOR LIST

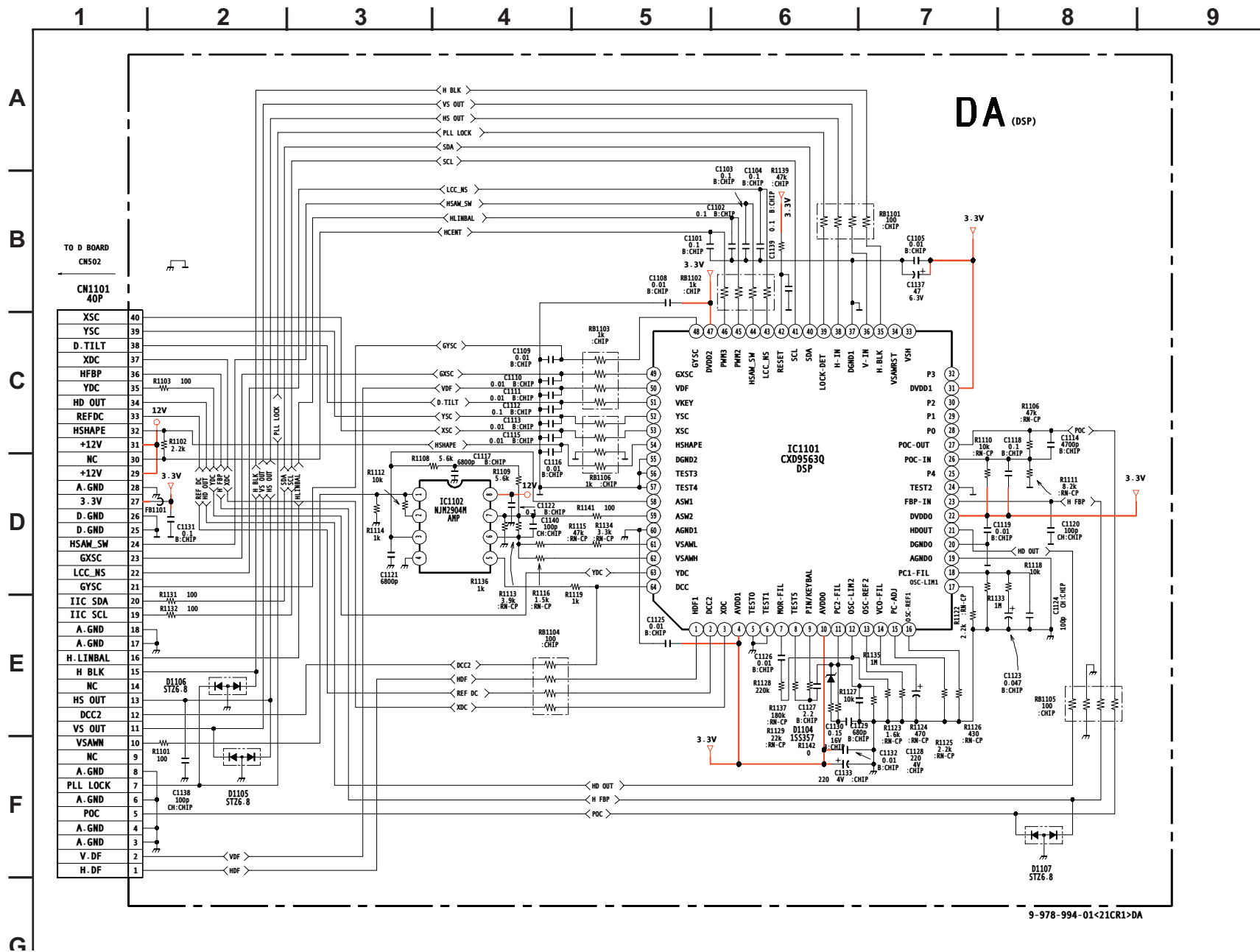
	B	C	E		G	D	S
Q501	0.3	6.1	GND	Q504	-10.4	-0.2	-15
Q502	6.1	12	6.1	Q506	200	66.6	217.4
Q503	6.1	GND	6.1	Q511	0.2	26.5	GND
Q505	-1.3	66.7	GND	Q512	4.9	24.8	GND
Q507	-0.7	12	0.2	Q513	0.2	24.8	GND
Q508	10.1	15	9.8	Q514	0.2	24.8	GND
Q509	10.1	GND	9.8	Q515	0.2	24.8	GND
Q510	0.9	12.8	0.4	Q516	0.2	24.8	GND
Q519	1.2	9	GND	Q517	0.2	24.8	GND
Q521	0.2	5.6	GND	Q630	1.2	385	1.2
Q524	0.2	5.6	GND	Q640	4.4	190.1	GND
Q610	1.8	16.6	16.6	Q641	194.6	378	190.1
Q611	0	12.1	GND	Q901	218.5	54.4	200
Q652	4.1	0	GND	Q902	8.2	54.8	GND
Q701	1.2	32.1	0				
Q702	33.8	80	33.4				
Q703	32.1	GND	32.9				
Q704	33.4	80	33.3				
Q705	32.9	GND	33.1				
Q706	1.8	107.8	1.3				
Q707	1.2	GND	1.8				
Q905	9.4	72.5	8.8				
Q906	3.6	GND	8.8				
Q907	3.7	GND	0.7				

All voltages are in V

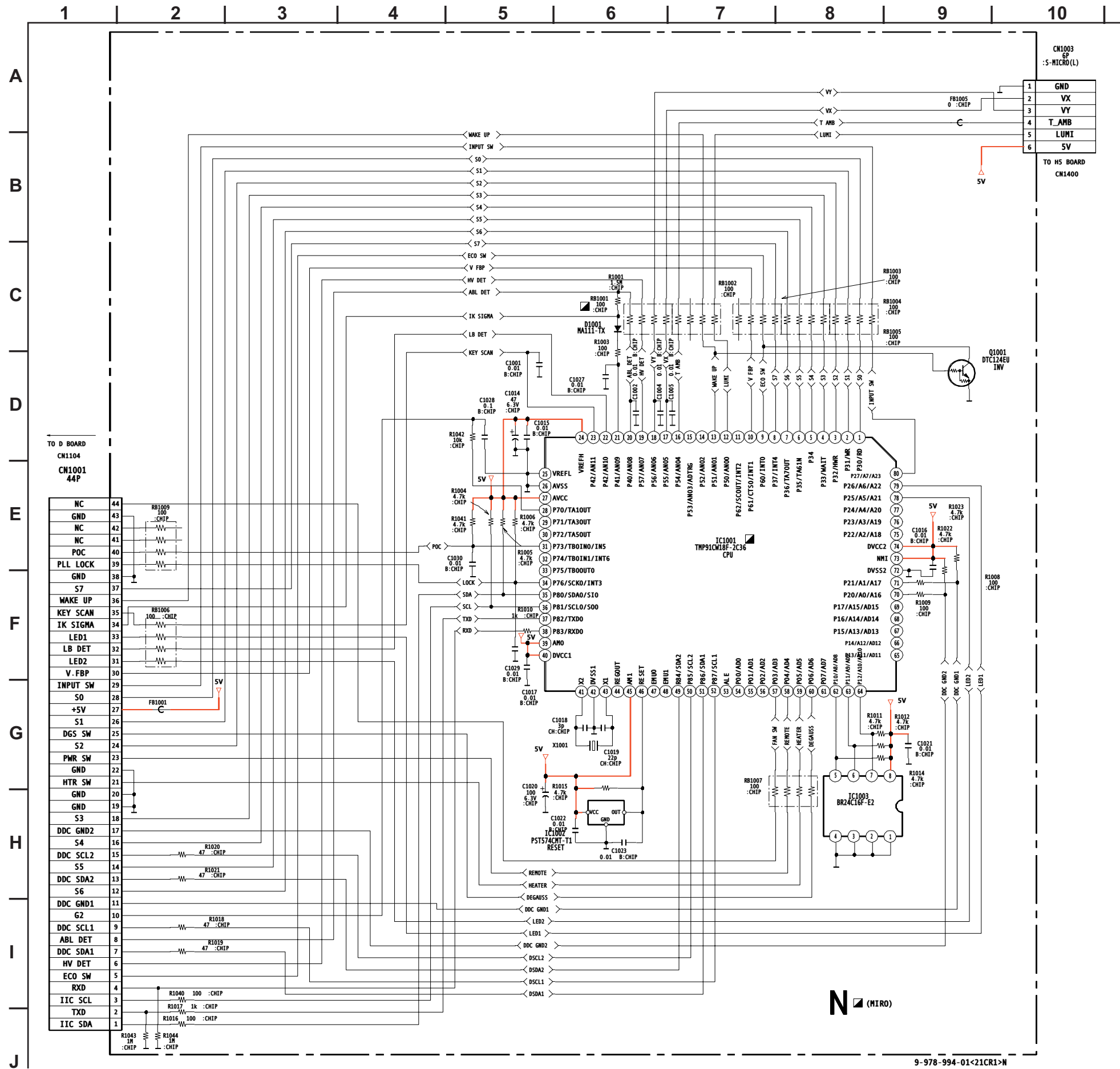
D BOARD WAVEFORMS



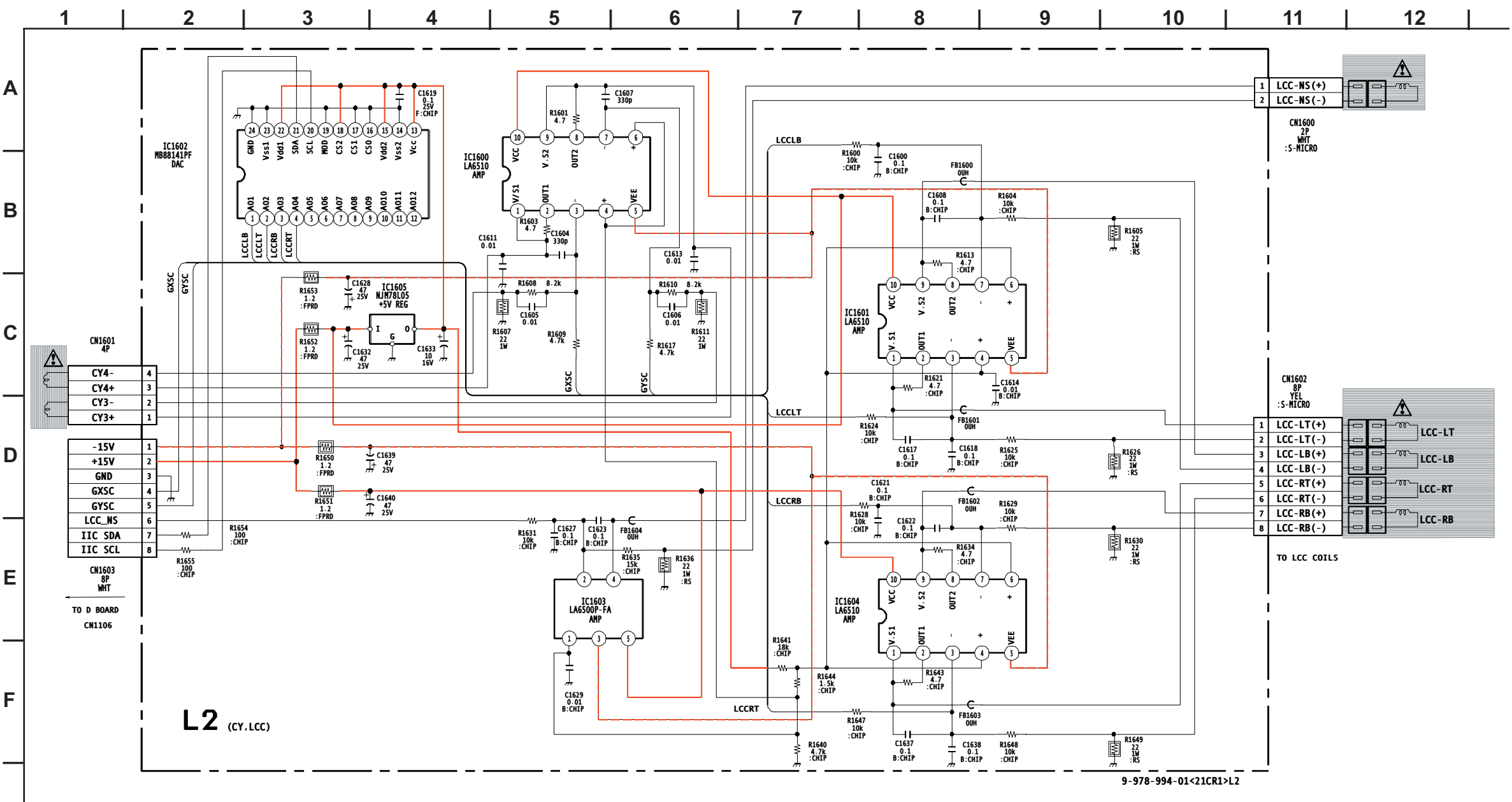
DA BOARD SCHEMATIC DIAGRAM



N BOARD SCHEMATIC DIAGRAM

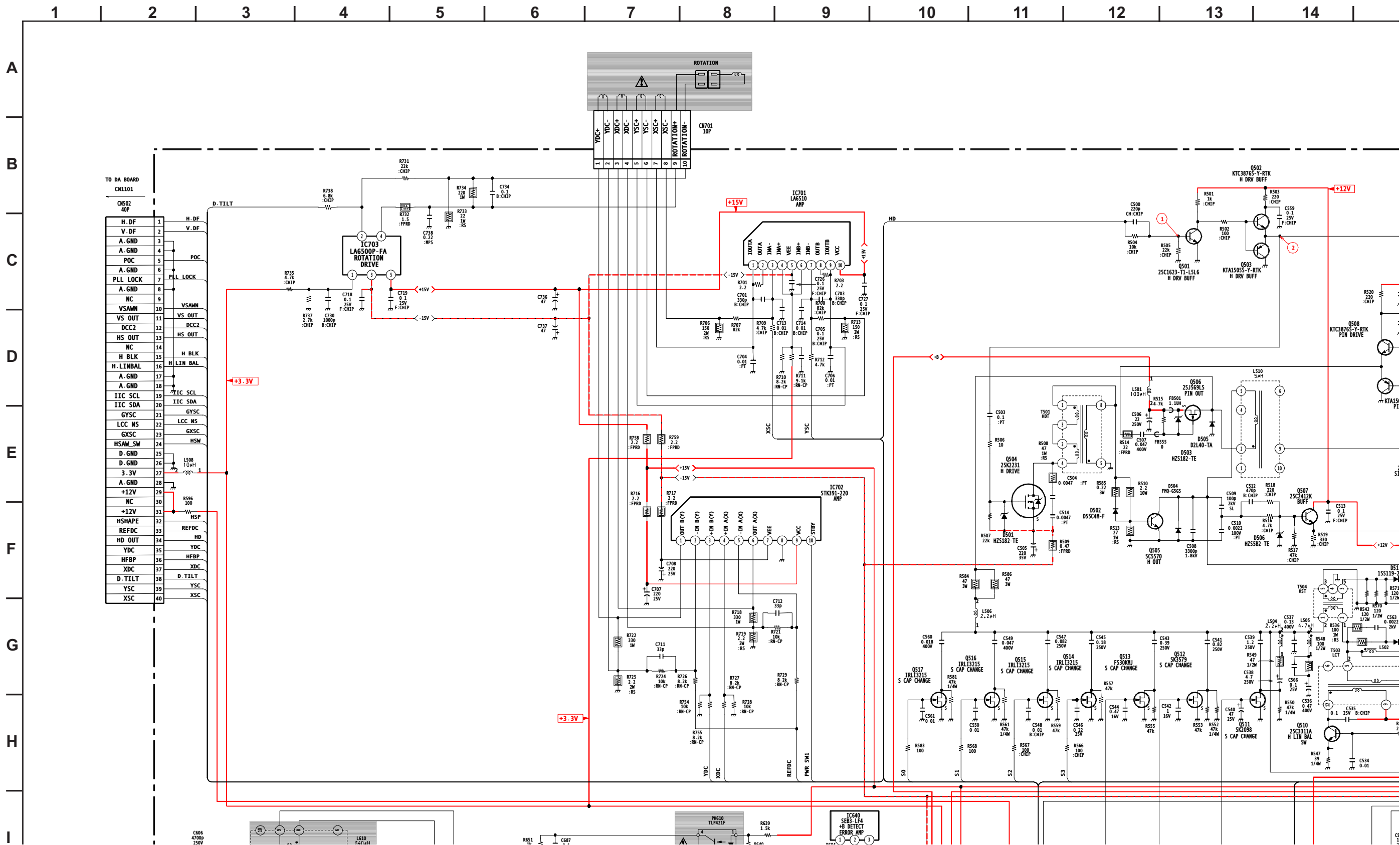


L2 BOARD SCHEMATIC DIAGRAM





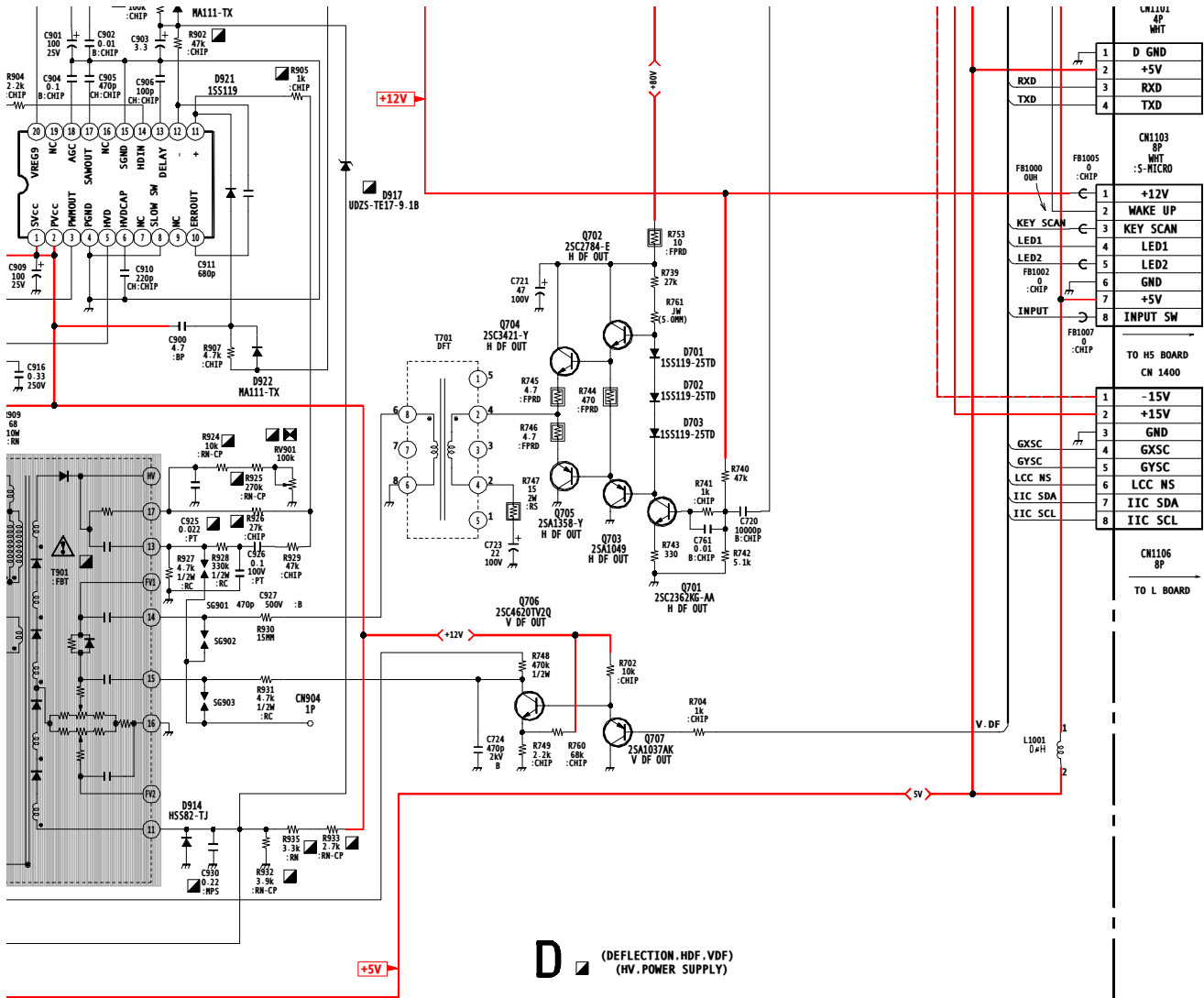
D BOARD SCHEMATIC DIAGRAM





All voltages are in V





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D BOARD TRANSISTOR LIST

	B	C	E
Q501	0.3	6.1	GND
Q502	6.1	12	6.1
Q503	6.1	GND	6.1
Q505	-1.3	66.7	GND
Q507	-0.7	12	0.2
Q508	10.1	15	9.8
Q509	10.1	GND	9.8
Q510	0.9	12.8	0.4
Q519	1.2	9	GND
Q521	0.2	5.6	GND
Q524	0.2	5.6	GND
Q610	1.8	16.6	16.6
Q611	0	12.1	GND
Q652	4.1	0	GND
Q701	1.2	32.1	0
Q702	33.8	80	33.4
Q703	32.1	GND	32.9
Q704	33.4	80	33.3
Q705	32.9	GND	33.1
Q706	1.8	107.8	1.3
Q707	1.2	GND	1.8
Q905	9.4	72.5	8.8
Q906	3.6	GND	8.8
Q907	3.7	GND	0.7

All voltages are in V

	G	D	S
Q504	-10.4	-0.2	-15
Q506	200	66.6	217.4
Q511	0.2	26.5	GND
Q512	4.9	24.8	GND
Q513	0.2	24.8	GND
Q514	0.2	24.8	GND
Q515	0.2	24.8	GND
Q516	0.2	24.8	GND
Q517	0.2	24.8	GND
Q630	1.2	385	1.2
Q640	4.4	190.1	GND
Q641	194.6	378	190.1
Q901	218.5	54.4	200
Q902	8.2	54.8	GND

All voltages are in V

D BOARD WAVEFORMS

