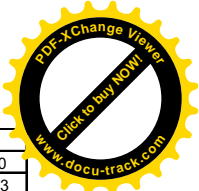
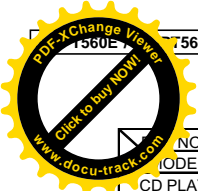


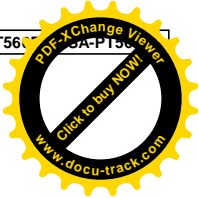
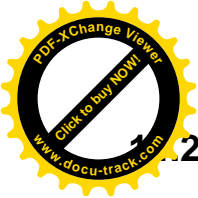
Voltage and Waveform Chart

14.1. DVD Module P.C.B.

REF NO.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	-	-	-	-	1.3	1.4	0	2.9	3.4	0	0.1	0.1	3.3	0	0.1	0.1	3.4	E	1	3
REF NO.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	0.1	0	0	3.4	0	0	3.3	0	0	0	0	1.6	3.4	0.9	0.1	0.1	0.9	0.1	3.4
REF NO.	IC3901																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	1.7	1.3	1.7	0.1	1.7	0.1	1.3	0.1	0.1	0.1	0.1	3.4	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0
REF NO.	IC3901																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	-	-	0.1	0.1	0.1	0.1	3.4	0.1	0.1	0.1	0.1	1.3	0.1	0.1	0	0	0.1
REF NO.	IC3901																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.1	0.1	0.1	3.4	1.3	0.1	1.0	0.9	1.8	1.3	0.1	2.2	0.9	0.6	2.1	0.1	0.1	0.1	0.1	3.4
REF NO.	IC3901																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0.1	1.3	0.1	0.1	0	3.4	3.4	3.4	1.3	0	1.8	0.1	3.3	3.3	3.4	1.3	1.7	0	0	3.4
REF NO.	IC3901																			
MODE	121	122	123	124	125	126	127	128												
CD PLAY	3.4	0	1.3	3.4	0	1.4	-	-												
REF NO.	IC3952																			
MODE	1	2	3	4	5															
CD PLAY	8.5	0	1.4	5.1	8.8															
REF NO.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0.1	3.3	0.1	3.3	0.1	0.1	1.0	0.9	1.7	1.2	2.2	0.9	0.1	3.3	0.6	2.0	0.1	1.2
REF NO.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	2.5	0	0	2.2	0	2.4	0	0.9	1.0	1.9	3.3	0	0	2.0	0.8	2.1	2.0	1.0	0.9	2.4
REF NO.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	2.4	2.6	0.1	1.2	0.1	3.2	3.2	3.3	3.3	1.7	0.1	3.3	1.8	2.8	3.0	3.3	3.3	3.3	0.6	3.0
REF NO.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.6	0.1	0.1	0.9	3.3	1.9	1.7	0	3.3	3.3	0	3.3	3.3	0	0.3	1.2	3.3	3.3	3.3	3.3
REF NO.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.1	0.1	1.2	3.3	0.9	2.4	0.1	1.9	0.1	0.5	1.8	3.3	1.5	1.5	1.9	1.9	1.7	1.7	1.7	1.7
REF NO.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0	0	0.2	0.1	0.2	2.1	3.3	0	2.3	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.5
REF NO.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	1.9	2.0	1.7	1.7	0.1	1.7	1.7	3.3	0.9	0.9	0.5	3.3	2.4	1.0	1.0	2.4	0.1	0.5	0.9	0.1
REF NO.	IC8001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	3.3	3.3	0	0	0	0	3.3	1.5	1.7	1.7	0.9	1.7	0	3.3	1.5	1.6	E	1	3	1.2
REF NO.	IC8001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
CD PLAY	3.0	3.0	3.1	3.0	0	3.3	3.0	3.2	3.2	3.0	3.0	3.2	0	3.3	3.0	3.1	3.2	2.9	2.9	2.9
REF NO.	IC8001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
CD PLAY	3.3	1.6	1.6	3.3	1.6	0	1.2	3.3	3.3	3.2	3.6	0	2.0	0	0	3.3	1.6	0.1	0	1.6
REF NO.	IC8001																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216				
CD PLAY	0.1	1.6	0.4	0	3.3	1.7	1.8	0.4	1.6	0	1.2	2.3	2.7	2.7	3.3	0				
REF NO.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	3.2	3.3	2.9	2.9	0	3.2	3.0	3.3	3.2	3.0	0	2.8	3.3	2.8	3.3	3.3	3.2	3.2	2.0
REF NO.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.6	0	0.1	0.4	0.4	1.6	3.3	0	1.5	1.7	1.7	1.6	0	0	0	-	3.3	1.6	2.9	-
REF NO.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0	3.2	3.3	3.0	0	0	3.2	2.9	3.3	3.1	2.9	0	3.0	0						
REF NO.	IC8111																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.3	-	0	1.9	4.8	-	-	5.1												
REF NO.	IC8151																			
MODE	1	2	3	4	5															
CD PLAY	2.3	2.3	0	1.3	0.8															



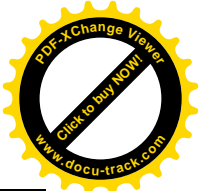
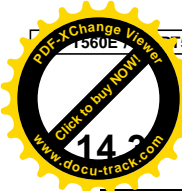
REF NO.	IC8251																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
CD PLAY	1.7	1.7	1.7	2.2	2.2	2.0	0.1	5.1	3.3	0	2.5	2.7	2.5	2.7	4.1	4.2	5.0	3.3	0	3.3					
REF NO.	IC8251																								
MODE	21	22	23	24	25	26	27	28	29	30															
CD PLAY	8.9	8.7	1.8	1.7	1.7	1.7	3.3	3.3	0	0															
REF NO.	IC8421																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
CD PLAY	1.7	1.7	0.9	1.7	3.3	3.3	3.3	0	0.9	0.1	0.1	5.1	5.1	5.1	0	0	2.6	2.6	2.6	2.6					
REF NO.	IC8421																								
MODE	21	22	23	24	25	26	27	28	29	30															
CD PLAY	2.6	2.6	0	0.2	2.6	2.6	0	5.1	5.1	5.1															
REF NO.	IC8422																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16									
CD PLAY	2.6	2.6	0	2.6	0	5.1	5.1	0	1.4	1.7	1.6	1.7	3.3	0	5.1	0									
REF NO.	IC8601																								
MODE	1	2	3	4																					
CD PLAY	3.3	1.2	0	0																					
REF NO.	IC8606																								
MODE	1	2	3	4	5																				
CD PLAY	3.3	3.3	0	0	-																				
REF NO.	IC8611																								
MODE	1	2	3	4	5	6	7	8																	
CD PLAY	0	0	0	0	3.2	3.2	0	3.3																	
REF NO.	IC8651																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
CD PLAY	2.6	2.4	2.2	0.6	2.5	1.2	0.9	1.1	1.9	0	3.3	3.3	3.3	3.3	1.1	2.1	0.8	2.2	2.1	1.0					
REF NO.	IC8651																								
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
CD PLAY	0.9	2.5	2.4	2.6	2.3	2.7	0	2.7	2.2	2.5	2.3	2.2	0.5	2.4	1.1	1.0	3.3	1.0	2.2	2.1					
REF NO.	IC8651																								
MODE	41	42	43	44	45	46	47	48																	
CD PLAY	1.0	0	2.4	2.4	2.5	0	3.3	2.5																	
REF NO.	IC8691																								
MODE	1	2	3	4	5																				
CD PLAY	3.0	3.0	0	4.5	5.1																				
REF NO.	IC8695																								
MODE	1	2	3	4	5																				
CD PLAY	2.7	2.7	0	4.2	5.1																				
REF NO.	IC8701																								
MODE	1	2	3	4	5																				
CD PLAY	-	1.5	0	1.8	3.3																				
REF NO.	IC8901																								
MODE	1	2	3	4	5																				
CD PLAY	3.3	3.3	0	3.3	3.3																				
REF NO.	IC9001																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
CD PLAY	0	2.2	2.6	2.4	2.4	0.9	0.9	2.0	2.2	0	2.7	2.2	2.1	1.0	0.9	2.5	2.4	2.6	2.3	3.3					
REF NO.	IC9002																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
CD PLAY	0	1	1	1.1	2.4	0.6	2.1	2.3	2.5	0	2.7	2.6	2.3	2.3	0.6	2.5	1.2	1.0	1.0	3.3					
REF NO.	IC9003																								
MODE	1	2	3	4	5	6																			
CD PLAY	1.6	0.1	1.6	1.7	3.3	1.6																			
REF NO.	IC9005																								
MODE	1	2	3	4	5	6	7	8																	
CD PLAY	0.1	5.1	5.1	0.1	3.3	1.1	1.1	1.1																	
REF NO.	Q3901					Q3902					Q3903					Q3941					Q3942				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B						
CD PLAY	0	0	0.7		3.3	0	3.4		3.3	5.1	0		3.7	3.7	3.7		0	0	0						
REF NO.	Q3943					Q8321					Q8325					Q8331					Q8335				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B						
CD PLAY	4.1	5.9	4.7		1.2	0	0.5		1.5	0	0.9		1.2	0	0.5		1.5	0	0.9						
REF NO.	Q8341					Q8551					Q8552					Q8561					Q8562				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B						
CD PLAY	1.5	0	0.9		0	5.1	0.1		5.1	0.1	5.1		1.5	3.7	2.1		4.3	1.9	3.7						
REF NO.	Q8563					Q8564					Q8565					QR8111									
MODE	S	D	G		S	D	G		S	D	G		1	2	3	4	5	6							
CD PLAY	0	0.2	0.1		0	0	3.3		0	0.1	0.7		0	0	1.2	0	0	4.8							
REF NO.	QR8420					QR9030																			
MODE	E	C	B		E	C	B																		
CD PLAY	0	4.3	0		3.3	0	3.3																		



2. D-Amp P.C.B.

REF NO.	IC5000																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CD PLAY	2.5	0.1	0.1	2.9	0	-29.3	-29.3	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-29.3	-29.3	0	29	
STANDBY	2.5	0.1	0.1	2.9	0	-29.3	-21	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-29.3	0.3129	2	0	29
REF NO.	IC5000																				
MODE	21	22	23																		
CD PLAY	-0.1	-0.1	2.5																		
STANDBY	-0.1	-0.1	2.5																		
REF NO.	IC5200																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CD PLAY	2.5	-0.1	-0.1	29	0	-29.3	-29.3	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-29.f	-29.3	0	29	
STANDBY	2.5	-0.1	-0.1	29	0	-29.3	-29.3	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-129.3	-29.3	0	29	
REF NO.	IC5200																				
MODE	21	22	23																		
CD PLAY	-0.1	-0.1	2.5																		
STANDBY	-0.1	-0.1	2.5																		
REF NO.	IC5300																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CD PLAY	2.5	-0.1	-0.1	29	0	-29.3	-29.3	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-29.f	-29.3	0	29	
STANDBY	2.5	-0.1	-0.1	29	0	-29.3	-29.3	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-129.3	-29.3	0	29	
REF NO.	IC5300																				
MODE	21	22	23																		
CD PLAY	-0.1	-0.1	2.5																		
STANDBY	-0.1	-0.1	2.5																		
REF NO.	IC5400																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CD PLAY	2.5	-0.1	-0.1	29	0	-29.3	-21.2	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-29.f	-29.3	0	29	
STANDBY	2.5	-0.1	-0.1	29	0	-29.3	-21.2	29.3	11	-0.1	-29.5	-17.3	-29.5	-0.1	11	29.3	-129.3	-29.3	0	29	
REF NO.	IC5400																				
MODE	21	22	23																		
CD PLAY	-0.1	-0.1	2.5																		
STANDBY	-0.1	-0.1	2.5																		
REF NO.	IC5500																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14							
CD PLAY	0	5.2	5	0	2.7	2.2	0	2.5	2.6	2.6	2.5	0	5.2	5.2							
STANDBY	0	5.2	5	0	2.7	2.2	0	2.5	2.6	2.6	2.5	0	5.2	5.2							
REF NO.	IC5501																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14							
CD PLAY	2.5	2.6	2.5	0	2.6	0	0	0	0	0	0	0	5.2	5.2							
STANDBY	2.5	2.6	2.5	0	2.6	0	0	0	0	0	0	0	5.2	5.2							
REF NO.	Q5101			Q5102			Q5601			Q5602			Q5603								
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
CD PLAY	0	5.2	0		0	5.2	0		0	0	0.7		0	0	0.7		5.2	5.1	4.4		
STANDBY	0	5.2	0		0	5.2	0		0	0	0.7		0	0	0.7		5.2	5.1	4.5		
REF NO.	Q5604			Q5640			Q5641			Q5642			Q5644								
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
CD PLAY	0	0	0.7		6.9	16.4	7.4		0	5.2	0		0	0	0.7		0	3.7	0		
STANDBY	0	0	0.7		6.9	16.4	7.4		0	5.2	0		0	0	0.7		0	3.7	0		

PT560E/EB/EG D-AMP P.C.B.



14.2 Main P.C.B.

REF NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.7	0	5.2	5.2	5.2	0	1.6	0	0	1.7	5.2	5.2	2.6	0	-	5.2	5.2	5.2	3.8	1.7
STANDBY	1.7	0	5.2	5.2	5.2	0	1.6	0	0	1.6	5.2	5.1	2.6	0	-	5.2	5.2	5.2	3.8	1.6
REF NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	5.2	0	0	0	5.2	0	4.6	4.2	1.8	0	1.6	5.2	5.2	0	1.7	5.2	5.2	5.2	5.2
STANDBY	0	5.2	0	0	0	5.2	0	4.6	4.3	1.8	0	1.7	5.2	5.1	0	1.8	5.2	5.2	5.2	5.1
REF NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	5.1	0	0	0	5.2	0	0	1.7	5.2	0	0	0	0	0	0	0	0	1.9
STANDBY	0	5.2	5.0	5.0	0	0	5.2	0	0	1.8	5.1	0	0	0	0	0	0	0	0	1.9
REF NO.	IC2001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	5.2	5.2	5.2	0	0	1.4	0	5.0	0	0	5.2	1.8	0	5.2	5.7	5.2	0	0	0	5.2
STANDBY	5.2	5.2	5.2	0	0	1.4	0	5.0	5.1	0	5.1	1.7	0	5.2	5.7	5.2	0	0	5.0	5.2
REF NO.	IC2001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	2.8	1.7	0	0	4.2	2.6	1.9	5.2	2.6	0	2.6	1.8	0	2.6	1.3	0	3.6	5.2	5.2	0
STANDBY	2.8	1.7	0	0	4.2	2.6	1.9	5.1	2.6	0	2.6	1.7	0	2.6	1.3	0	3.6	5.2	5.2	0
REF NO.	IC2002																			
MODE	1	2	3	4	5															
CD PLAY	5.2	0	5.2	0	3.3															
STANDBY	5.2	0	5.1	0	3.3															
REF NO.	IC2003																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	1.8	0	5.2												
STANDBY	0	0	0	0	0	1.8	0	5.2												
REF NO.	IC2004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	1.3	1.8	2.7	2.6	5.0	0	0	2.7	0	0	0	5.0	1.7	2.5	0	2.5				
STANDBY	1.3	1.8	2.7	2.6	5.0	0	0	2.7	0	0	0	5.0	1.7	2.5	0	2.5				
REF NO.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC2101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC2101																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0
REF NO.	IC2101																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	5.2	0	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	5.2	0	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC2101																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	6.8	6.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	6.8	6.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC2102																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	6.8	0	0	0	6.8												
STANDBY	0	0	0	6.8	0	0	0	6.9												
REF NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	6.7	0	0	0	6.8												
STANDBY	0	0	0	6.7	0	0	0	6.9												
REF NO.	IC2801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	5.1	0	0	2.2	5.0	0.1	0	1.5	2.2	0	1.5	0	2.2	5.0	2.2	5.1	2.3	2.3	0	2.3
STANDBY	5.1	0	0	2.2	5.0	0.1	0	1.5	2.2	0	1.5	0	2.2	5.5	2.2	5.1	2.3	2.3	0	2.3
REF NO.	IC2801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
CD PLAY	2.3	0	1.4	1.4	0	1.4	1.4	0	1.5	1.5	0	2.3								
STANDBY	2.3	0	1.4	1.4	0	1.4	1.4	0	1.5	1.5	0	2.3								

REF NO.	Q2001			Q2002			Q2003			Q2004			Q2005		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	5.4	1.3	5.1	3.5	5.2	4.2	0	5.2	0	0	1.6	0	3.3	1.6	5.2
STANDBY	5.4	1.3	5.1	3.5	5.2	4.2	0	5.1	0	0	1.6	0	3.3	1.6	5.2
REF NO.	Q2006			Q2007			Q2013			Q2030					
MODE	E	C	B	E	C	B	E	C	B	E	C	B			
CD PLAY	0	0	4.3	0	5.2	0	3.6	5.2	4.3	3.6	5.2	4.3			
STANDBY	0	5.2	0	0	5.2	0	3.6	5.2	4.3	3.6	5.2	4.3			
REF NO.	Q2101						Q2102						Q2103		
MODE	1	2	3	4	5	6	1	2	3	4	5	6	E	C	B
CD PLAY	0	4.5	0	0	4.5	0	0	4.5	0	0	4.5	0	0	4.5	0
STANDBY	0	1.0	0	0	1.0	0	0	1.0	0	0	1.0	0	1.5	1.5	0
REF NO.	Q2104						Q2096			Q2097			Q2203		
MODE	1	2	3	4	5	6	E	C	B	E	C	B	E	C	B
CD PLAY	0	4.5	0	0	4.5	0	0	0	0.6	0	5.8	0	0	4.5	0
STANDBY	0	1.0	0	0	1.0	0	0	0	0.6	0	5.7	0	1.5	1.5	0
REF NO.	Q2501			Q2502			Q2801			Q2802			Q2803		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	0	5.0	0	0	5.0	0	5.0	0	0	5.2	0	0	0	5.2
STANDBY	0	0	5.0	0	0	5.0	0	5.0	0	0	5.2	0	0	0	5.1
REF NO.	Q2845			Q2847			Q2848			Q2909			Q2919		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	4.6	0	0	4.6	0	0	4.6	0	0	5.1	0	0	5.1	0
STANDBY	1.4	1.3	0	1.4	1.3	0	1.4	1.3	0	0	5.1	0	0	5.2	0
REF NO.	Q2923			Q2924											
MODE	E	C	B	E	C	B									
CD PLAY	0	0	2	0	5.1	0									
STANDBY	0	0	2	0	5.1	0									

PT560E/EB/EG MAIN P.C.B.

14.4. Panel P.C.B.

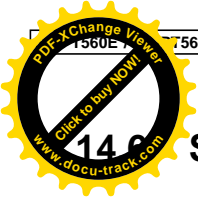
REF NO.	IC6901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	29	0	0	4.1	2.5	1.9	1.9	0	5.0	24.4	24.4	22	24.4	17.2	19.7	14.
STANDBY	0	0	0	0	29	0	0	4.1	2.5	1.9	1.9	0	5.0	24.5	24.5	22	24.4	1	14.9	19.7
REF NO.	IC6901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	24.4	24.4	24.4	17.2	17.2	24.4	24.4	24.4	17.3	24.9	15	17.4	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
STANDBY	24.5	24.5	24.5	17.3	17.3	24.5	24.5	24.5	17.3	25	15	15.1	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.3
REF NO.	IC6901																			
MODE	41	42	43	44																
CD PLAY	22.3	22.2	5.0	0																
STANDBY	22.3	22.2	5.0	0																
REF NO.	Q6910																			
MODE	E	C	B																	
CD PLAY	0	4.8	0																	
STANDBY	0	4.8	0																	

PT560E/EB/EG PANEL P.C.B.

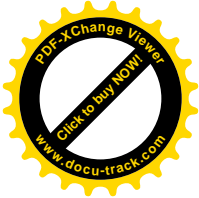
14.5. Power Supply P.C.B.

REF NO.	IC2900																			
MODE	1	2	3	4	5															
CD PLAY	16.6	8.8	0	1	15.9															
STANDBY	16.8	8.8	0	1	16.1															
REF NO.	IC2903																			
MODE	1	2	3	4	5															
CD PLAY	16.6	5.2	0	1	16															
STANDBY	16.8	5.2	0	1	16.2															
REF NO.	IC6101																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.4	3.4	3.4	0	3.4	3.4	3.4	6.8												
STANDBY	3.4	3.4	3.4	0	3.4	3.4	3.4	6.8												
REF NO.	IC6601																			
MODE	1	2	3	4	5															
CD PLAY	1	0	6.8	1.7	1.7															
STANDBY	1	0	6.8	1.7	1.7															
REF NO.	IC6602																			
MODE	1	2	3	4	5															
CD PLAY	0	5.2	0	0	-															
STANDBY	0	5.2	0	0	-															
REF NO.	Q2900				Q2901				Q2902				Q2903				Q2904			
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
CD PLAY	0	16.5	-0.5	-6.8	-9.8	-7.4	0	-7.4	-0.6	6.8	8.9	7.5	2.4	4.6	3.1					
STANDBY	0	16.6	-0.5	-6.8	-10	-7.4	0	-7.4	-0.6	6.8	8.9	7.5	2.4	4.6	3.1					
REF NO.	Q2921			Q2922																
MODE	E	C	B	E	C	B														
CD PLAY	5.2	0	5.1	0	5.1	0														
STANDBY	5.2	0	5.1	0	5.1	0														

PT560E/EB/EG POWER SUPPLY P.C.B.



Scart P.C.B.



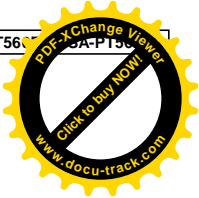
REF NO.	IC4101																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
CD PLAY	4.8	0	0	2.1	4.6	1.6	0	1.6	2.2	4.8	0.1	0	0	0	0.1	4.8	2.6	2.6	0	3.7					
STANDBY	4.8	0	0	2.1	4.6	1.6	0	1.6	2.2	4.8	0.1	0	0	0	0.1	4.8	2.6	2.6	0	3.7					
REF NO.	IC4101																								
MODE	21	22	23	24	25	26	27	28	29	30	31	32													
CD PLAY	0	0	3.5	3.5	0	1.3	1.3	0	1.4	1.6	0	0													
STANDBY	0	3.7	3.7	0	1.3	1.3	0	1.4	1.6	0	2.3	0													
REF NO.	IC4102																								
MODE	1	2	3	4	5	6																			
CD PLAY	0	2.6	5.1	2.6	0	2.6																			
STANDBY	0	2.6	5.1	2.6	0	2.6																			
REF NO.	IC4103																								
MODE	1	2	3	4	5	6																			
CD PLAY	4.9	2.6	5.1	2.6	0	2.6																			
STANDBY	4.9	2.6	5.1	2.6	0	2.6																			
REF NO.	IC4104																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14											
CD PLAY	0	4.7	0	4.7	5.2	0	0	0	0	0	0	0	5.2	4.8											
STANDBY	0	4.8	1	4.8	5.2	0	0	0	0	0	0	0	5.3	4.9											
REF NO.	Q4001					Q4002					Q4003					Q4004					Q4005				
MODE	E	C	B			E	C	B			E	C	B			E	C	B			E	C	B		
CD PLAY	0	4.7	0			0	5.1	0			11.5	16.6	12			5.1	0	5.1			0	11.5	0		
STANDBY	0	4.7	0			0	5.1	0			11.5	16.8	12			5.1	0	5.1			0	11.5	0		
REF NO.	Q4007					Q4008					Q4009														
MODE	E	C	B			E	C	B			E	C	B												
CD PLAY	1.2	0	1.2			0	11.5	0			0	4.9	0												
STANDBY	1.2	0	1.2			0	11.5	0			0	4.9	0												

PT560E/EB/EG SCART P.C.B.

14.7. SMPS P.C.B.

REF NO.	IC5701																								
MODE	1	2	3	4	5	6	7																		
CD PLAY	162	0	0	19.3	0.1	1.4	0.5																		
STANDBY	162	0	0	19.3	0.1	1.4	0.5																		
REF NO.	IC5799																								
MODE	1	2	3	4	5	6	7	8																	
CD PLAY	6.0	1.6	1.8	20.3	162.2	-	0	0																	
STANDBY	6.0	1.6	2.0	20.3	163.0	-	0	0																	
REF NO.	IC5801																								
MODE	1	2	3																						
CD PLAY	-2.2	-29.5	-26.8																						
STANDBY	-2.2	-29.5	-26.8																						
REF NO.	IC5899																								
MODE	1	2	3																						
CD PLAY	4.2	0	2.5																						
STANDBY	4.2	0	2.5																						
REF NO.	Q5720					Q5721					Q5722					Q5802					Q5803				
MODE	E	C	B			E	C	B			E	C	B			E	C	B			E	C	B		
CD PLAY	5.9	6.5	5.6			19.9	19.9	19.2			0	17.0	0.1			-21.9	-2.2	-22			0	5.8	0		
STANDBY	5.9	6.6	5.6			19.9	19.9	19.2			0	16.8	0.1			-21.8	-2.2	-22			0	5.8	0		
REF NO.	Q5860					Q5861					Q5862					QR5801					QR5802				
MODE	E	C	B			E	C	B			E	C	B			E	C	B			E	C	B		
CD PLAY	1.3	0	0.7			0	0	0.7			0	5.2	0			0	5.0	0			0	4.5	0		
STANDBY	1.3	0	0.7			0	0	0.7			0	5.2	0			0	5.0	0			1.5	1.5	0		
REF NO.	QR5810					Q5898																			
MODE	E	C	B			E	C	B																	
CD PLAY	0	0.1	5			0	3.2	0.5																	
STANDBY	0	0	5			0	3.2	0.5																	

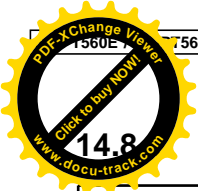
PT560E/EB/EG SMPS P.C.B.



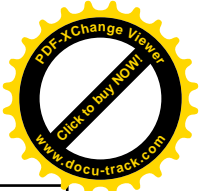
14.8. Waveform Chart

14.8.1. Waveform 1

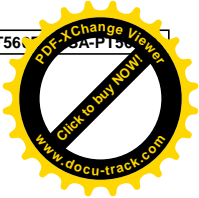
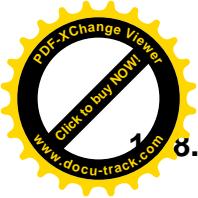
<p>WF No. IC2001-13 (PLAY)</p> <p>5.2Vp-p(50usec/div)</p>	<p>WF No. IC2001-15 (PLAY)</p> <p>3.8Vp-p(50usec/div)</p>	<p>WF No. IC2101-13 (PLAY)</p> <p>5Vp-p(200usec/div)</p>	<p>WF No. IC2101-14,15,16,17,18 (PLAY)</p> <p>0.36Vp-p(200usec/div)</p>
<p>WF No. IC2101-19 (PLAY)</p> <p>0.22Vp-p(200usec/div)</p>	<p>WF No. IC2101-30,41 (PLAY)</p> <p>0.4Vp-p(200usec/div)</p>	<p>WF No. IC2101-44 (PLAY)</p> <p>0.5Vp-p(5msec/div)</p>	<p>WF No. IC2101-52 (PLAY)</p> <p>0.62Vp-p(200usec/div)</p>
<p>WF No. IC2101-60 (PLAY)</p> <p>0.6Vp-p(20usec/div)</p>	<p>WF No. IC2101-80 (PLAY)</p> <p>1.75Vp-p(200usec/div)</p>	<p>WF No. IC2101-81,82 (PLAY)</p> <p>2.8Vp-p(200usec/div)</p>	<p>WF No. IC2101-95 (PLAY)</p> <p>2.8Vp-p(200usec/div)</p>
<p>WF No. IC2101-96 (PLAY)</p> <p>0.38Vp-p(200usec/div)</p>	<p>WF No. IC2101-99 (PLAY)</p> <p>7.4Vp-p(200usec/div)</p>	<p>WF No. IC2101-100 (PLAY)</p> <p>0.98Vp-p(200usec/div)</p>	<p>WF No. IC2102-1 (PLAY)</p> <p>0.7Vp-p(200usec/div)</p>
<p>WF No. IC2102-7 (PLAY)</p> <p>0.7Vp-p(200usec/div)</p>	<p>WF No. IC3901-87,88,89,90,92,93,94,95 (PLAY)</p> <p>3.3Vp-p(20usec/div)</p>	<p>WF No. IC4101-4 (PLAY)</p> <p>0.62Vp-p(200msec/div)</p>	<p>WF No. IC4101-8,11 (PLAY)</p> <p>1.0Vp-p(200msec/div)</p>
<p>WF No. IC4101-13 (PLAY)</p> <p>0.96Vp-p(200msec/div)</p>	<p>WF No. IC4101-15 (PLAY)</p> <p>0.48Vp-p(100msec/div)</p>	<p>WF No. IC4101-18 (PLAY)</p> <p>0.92Vp-p(200msec/div)</p>	<p>WF No. IC4101-21 (PLAY)</p> <p>0.92Vp-p(200msec/div)</p>



Waveform 2



<p>WF No. IC4101-24,27 (PLAY)</p> <p>2.1Vp-p(500msec/div)</p>	<p>WF No. IC4101-30 (PLAY)</p> <p>2.1Vp-p(500msec/div)</p>	<p>WF No. IC4102-2 (PLAY)</p> <p>0.13Vp-p(5msec/div)</p>	<p>WF No. IC4103-2 (PLAY)</p> <p>2.05Vp-p(20usec/div)</p>
<p>WF No. IC5000-1 (PLAY)</p> <p>5.6Vp-p(1usec/div)</p>	<p>WF No. IC5000-2 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>	<p>WF No. IC5000-10,14 (PLAY)</p> <p>80Vp-p(1usec/div)</p>	<p>WF No. IC5000-22 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>
<p>WF No. IC5200-1 (PLAY)</p> <p>5.6Vp-p(1usec/div)</p>	<p>WF No. IC5200-2 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>	<p>WF No. IC5200-10,14 (PLAY)</p> <p>80Vp-p(1usec/div)</p>	<p>WF No. IC5200-22 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>
<p>WF No. IC5300-1 (PLAY)</p> <p>5.6Vp-p(1usec/div)</p>	<p>WF No. IC5300-2 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>	<p>WF No. IC5300-10,14 (PLAY)</p> <p>80Vp-p(1usec/div)</p>	<p>WF No. IC5300-22 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>
<p>WF No. IC5400-1 (PLAY)</p> <p>5.6Vp-p(1usec/div)</p>	<p>WF No. IC5400-2 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>	<p>WF No. IC5400-10,14 (PLAY)</p> <p>80Vp-p(1usec/div)</p>	<p>WF No. IC5400-22 (PLAY)</p> <p>0.84Vp-p(200usec/div)</p>
<p>WF No. IC5500-5 (PLAY)</p> <p>7.2Vp-p(500nsec/div)</p>	<p>WF No. IC5500-8 (PLAY)</p> <p>5.6Vp-p(500usec/div)</p>	<p>WF No. IC5701-1 (PLAY)</p> <p>400Vp-p(2usec/div)</p>	<p>WF No. IC5701-4,6 (PLAY)</p> <p>2Vp-p(5usec/div)</p>



8.3. Waveform 3

<p>WF No. IC5799-2 (PLAY)</p> <p>2Vp-p(5usec/div)</p>	<p>WF No. IC5799-3 (PLAY)</p> <p>9.6Vp-p(5usec/div)</p>	<p>WF No. IC5799-5 (PLAY)</p> <p>240Vp-p(50usec/div)</p>	<p>WF No. IC5899-1,2,3 (PLAY)</p> <p>1.65Vp-p(5msec/div)</p>
<p>WF No. IC6901-5 (PLAY)</p> <p>2.15Vp-p(2usec/div)</p>	<p>WF No. IC6901-8 (PLAY)</p> <p>5.6Vp-p(2usec/div)</p>	<p>WF No. IC8001-59,62,63,64 (PLAY)</p> <p>6Vp-p(2usec/div)</p>	<p>WF No. IC8001-138 (PLAY)</p> <p>1.05Vp-p(20usec/div)</p>
<p>WF No. IC8001-139 (PLAY)</p> <p>0.95Vp-p(10usec/div)</p>	<p>WF No. IC8001-144,146 (PLAY)</p> <p>5.2Vp-p(500usec/div)</p>	<p>WF No. IC8421-9,10,11 (PLAY)</p> <p>7.2Vp-p(2usec/div)</p>	<p>WF No. IC8421-17 (PLAY)</p> <p>2Vp-p(5msec/div)</p>
<p>WF No. IC8421-18,19,20,21,22 (PLAY)</p> <p>3.6Vp-p(200usec/div)</p>	<p>WF No. IC8421-24 (PLAY)</p> <p>3.6Vp-p(200usec/div)</p>	<p>WF No. IC8421-25 (PLAY)</p> <p>0.5Vp-p(200usec/div)</p>	<p>WF No. IC8422-1 (PLAY)</p> <p>2.9Vp-p(200usec/div)</p>
<p>WF No. IC8422-2 (PLAY)</p> <p>0.4Vp-p(200usec/div)</p>	<p>WF No. IC8422-9 (PLAY)</p> <p>7.2Vp-p(2usec/div)</p>		

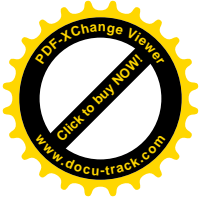
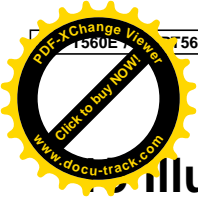
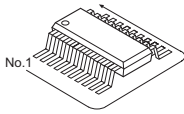
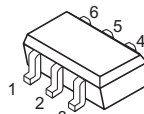
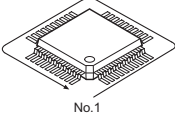
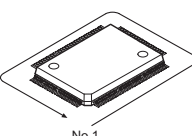
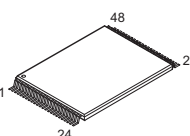
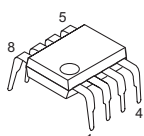
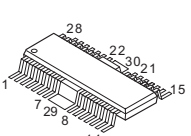
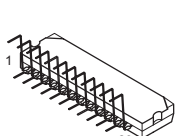
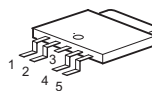
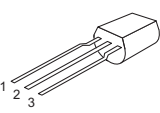
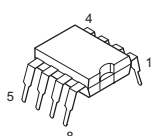
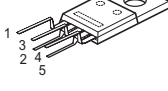
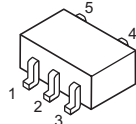
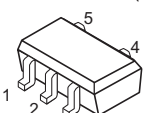
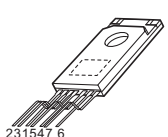
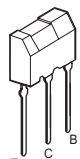
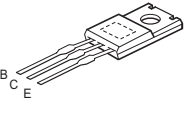
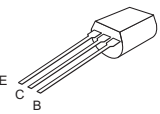
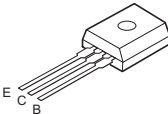
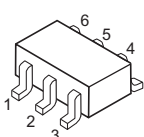
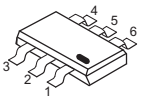
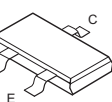
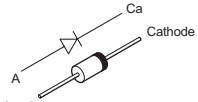
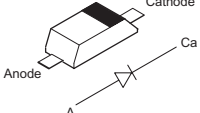
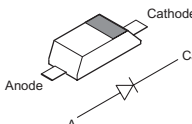
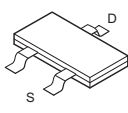
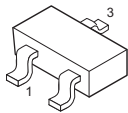
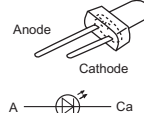
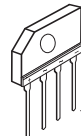
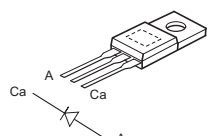
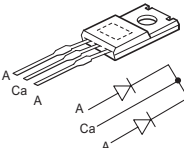
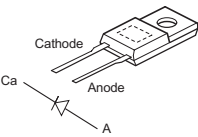
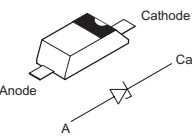
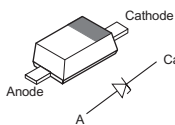
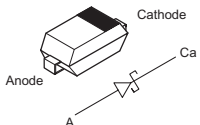
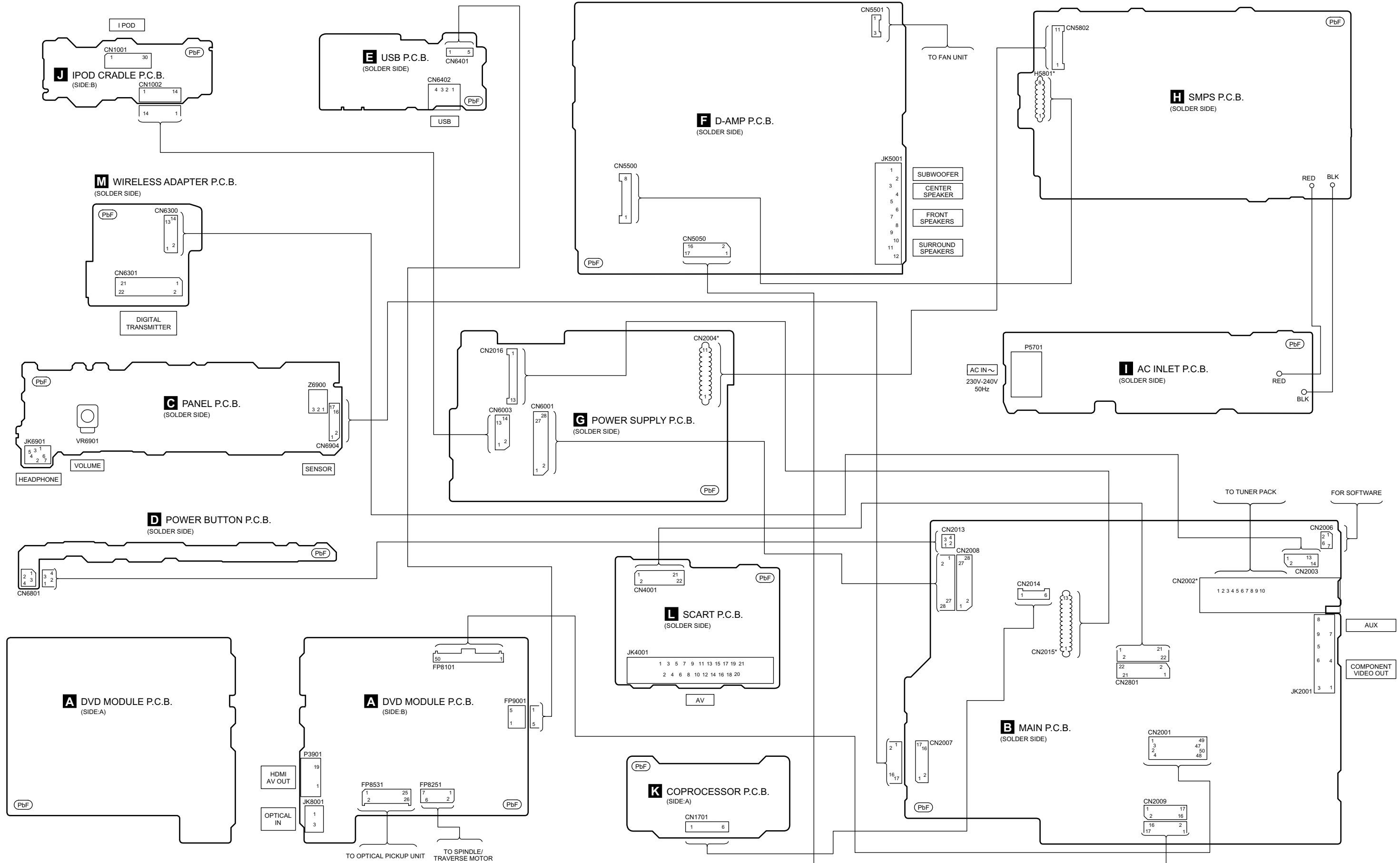


Illustration of IC's, Transistors and Diodes

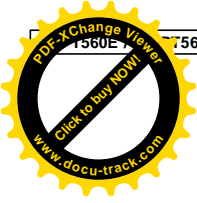
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<p>C1AB00002735 (100p)</p> 	<p>RFKWMH32B321 (48p)</p> 	<p>C0AABB000125 (8P)</p> 	<p>C0GBG0000048 (28P)</p> 	<p>C1BA00000487 (23P)</p> 	<p>C0CBCDG00003 (5p) C0DBEHG00006 (5p)</p> 
<p>C0DABFC00002 (3p) C0DAEMZ00001 (3p)</p> 	<p>MIP4110MSSCF (8P)</p> 	<p>C0DAAMH00012 (5p) C0DAAYY00042 (5p)</p> 		<p>C0ABAA000114 (5p) C0CBCBC00140 (5p) C0CBCDC00063 (5p) C0EBA0000039 (5p) C0EBE0000456 (5p)</p>	<p>C0JBAA000501 (5p) C0JBAA000502 (5p) C0JBAB000907 (5p)</p> 
<p>C5HACY00003 (7p)</p> 	<p>B1BABK000001</p> 	<p>B1BACG000023 B1BCCG000002</p> 	<p>2SC3940ARA</p> 	<p>B1BACD000018</p> 	<p>B1HBECA00004</p> 
<p>XP0621400L</p> 	<p>B1ABCF000176 B1ABGC000005 B1ADCE000012</p> 	<p>B1ADCF000001 B1ADGB000008 B1GBCFJJ0051 B1GBCFJN0033 B1GBCFLL0037 B1GDCFGA0018 UNR211H00L</p>	<p>UNR221200L UNR221400L UNR521100L 2SA207700L 2SB0709AHL 2SB1218ARL 2SC584500L 2SD0601AHL 2SD1819A0L</p>	<p>B0EAKM000117 B0EAMM000057 B0HAMP000094 B0JAME000029</p> 	<p>B0ACCK000005</p> 
<p>MA2J11100L MA2J72800L</p> 	<p>B1CFHA000002</p> 	<p>B1GDCFJJ0002 B1CFGC000004</p> 	<p>B3AAA0000803 B3ABA0000397</p> 	<p>B0FBAR000041</p> 	<p>B0ZAZ0000052</p> 
<p>B0HBSM000043</p> 	<p>B0HFRJ000012</p> 		<p>B0BC010A0007 B0BC01200019 B0BC019A0007 B0BC035A0007 B0BC2R4A0006 B0BC3R400001 B0BC5R000009 B0BC6R100010 B0BC7R500001</p>		<p>MAZ80510ML MAZ80750ML MAZ81200ML MAZ81800ML MAZ82400HL</p>
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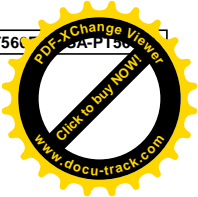
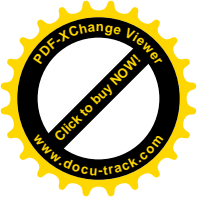
16 Wiring Connection Diagram



* FOR INDICATION ONLY

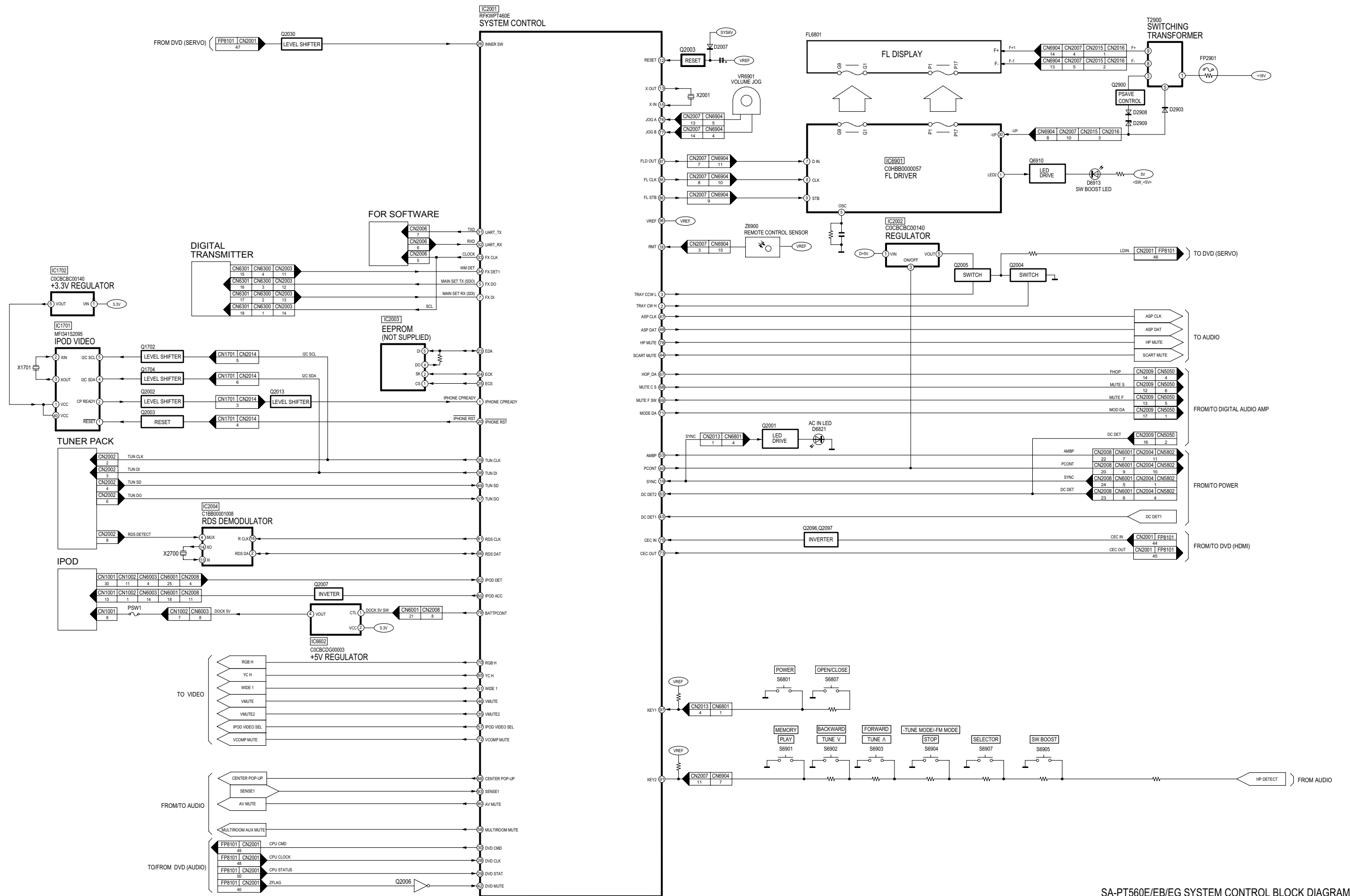
SA-PT560E/EB/EG WIRING CONNECTION





17 Block Diagram

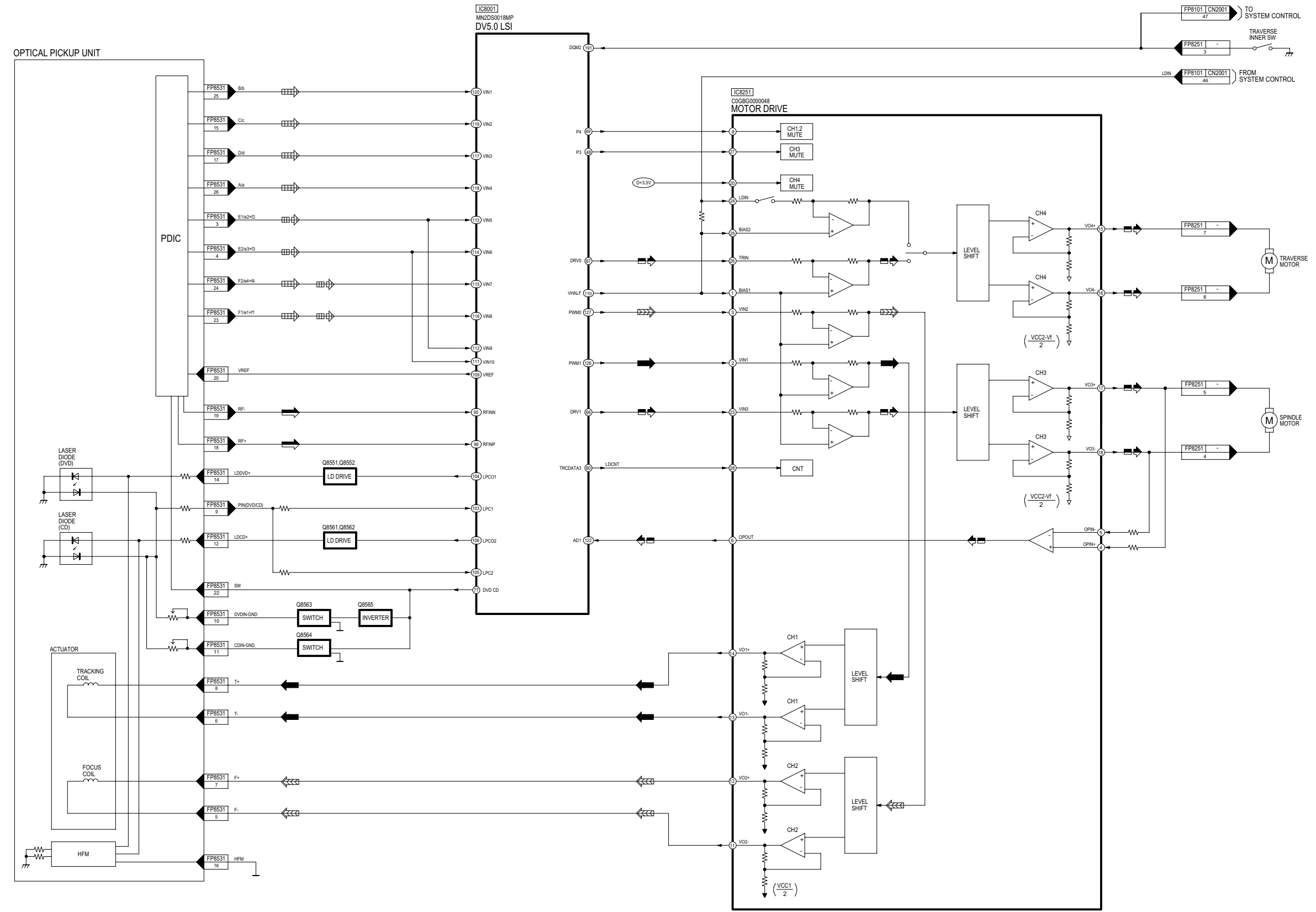
17.1. System Control



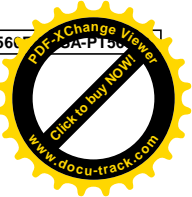
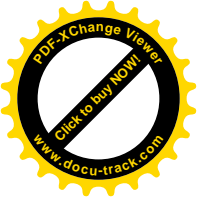
SA-PT560E/EB/EG SYSTEM CONTROL BLOCK DIAGRAM

7.2. DVD (Servo)

: CD HEAD SIGNAL LINE
 : DVD RF SIGNAL LINE
 : TRACKING ERROR SIGNAL LINE
 : DVD HEAD SIGNAL LINE
 : MOTOR DRIVE SIGNAL LINE
 : FOCUS ERROR SIGNAL LINE

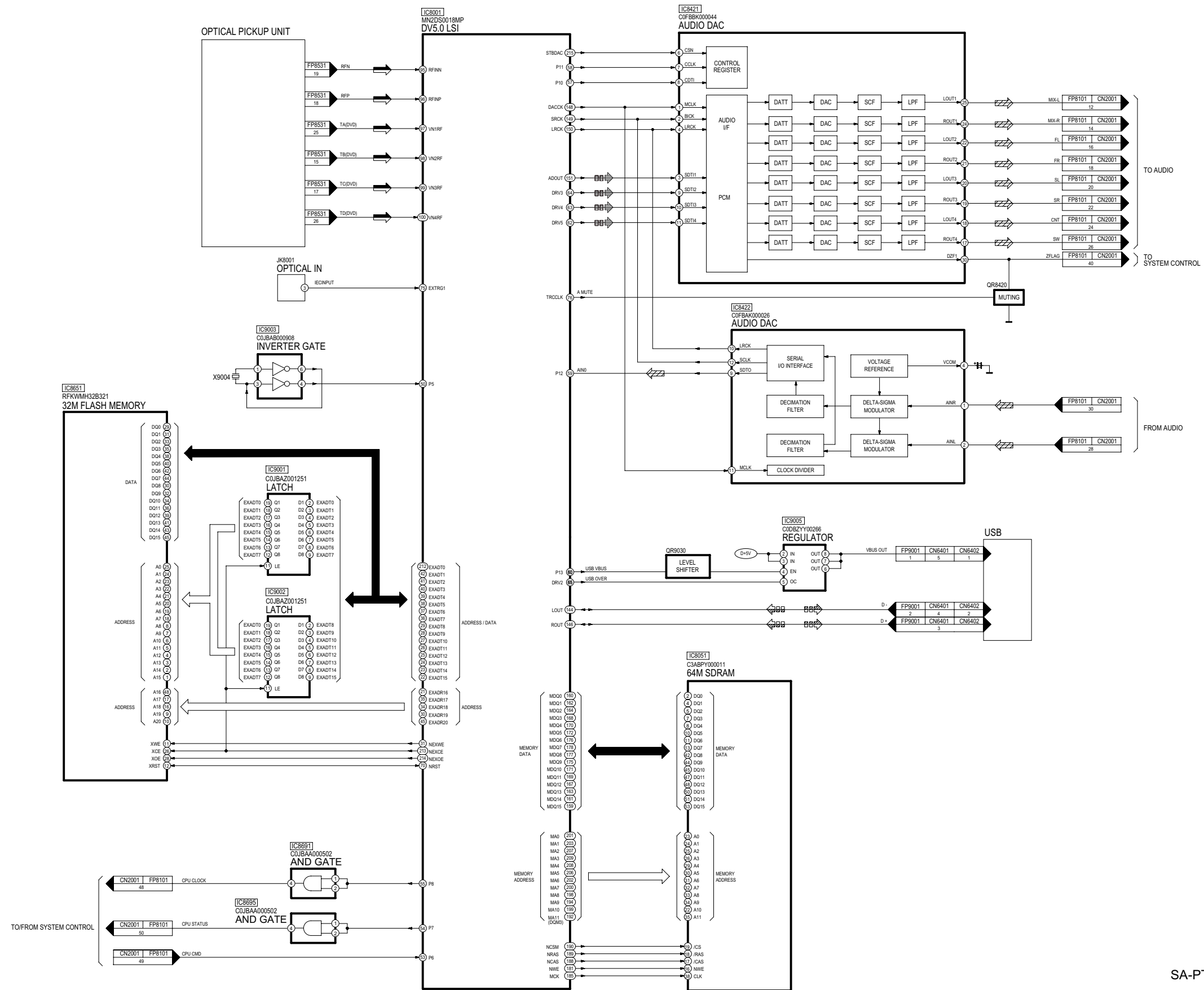


SA-PT560E/EB/EG DVD (SERVO) BLOCK DIAGRAM






17.3. DVD (Audio)

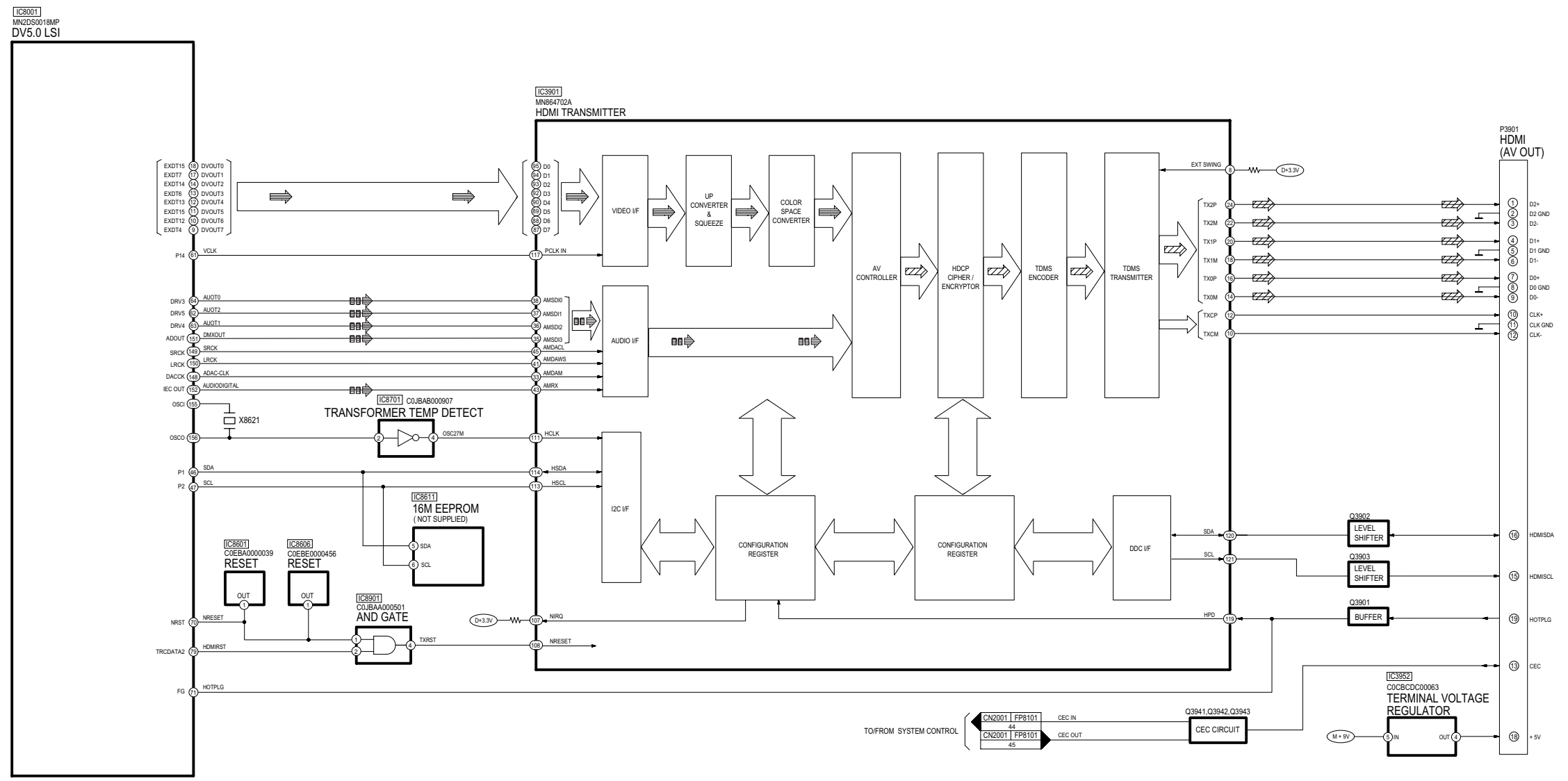
➡ : DVD RF SIGNAL LINE 📡 : DVD AUDIO SIGNAL LINE 📡 : MAIN SIGNAL LINE 📡 : USB SIGNAL LINE



SA-PT560E/EB/EG DVD (AUDIO) BLOCK DIAGRAM

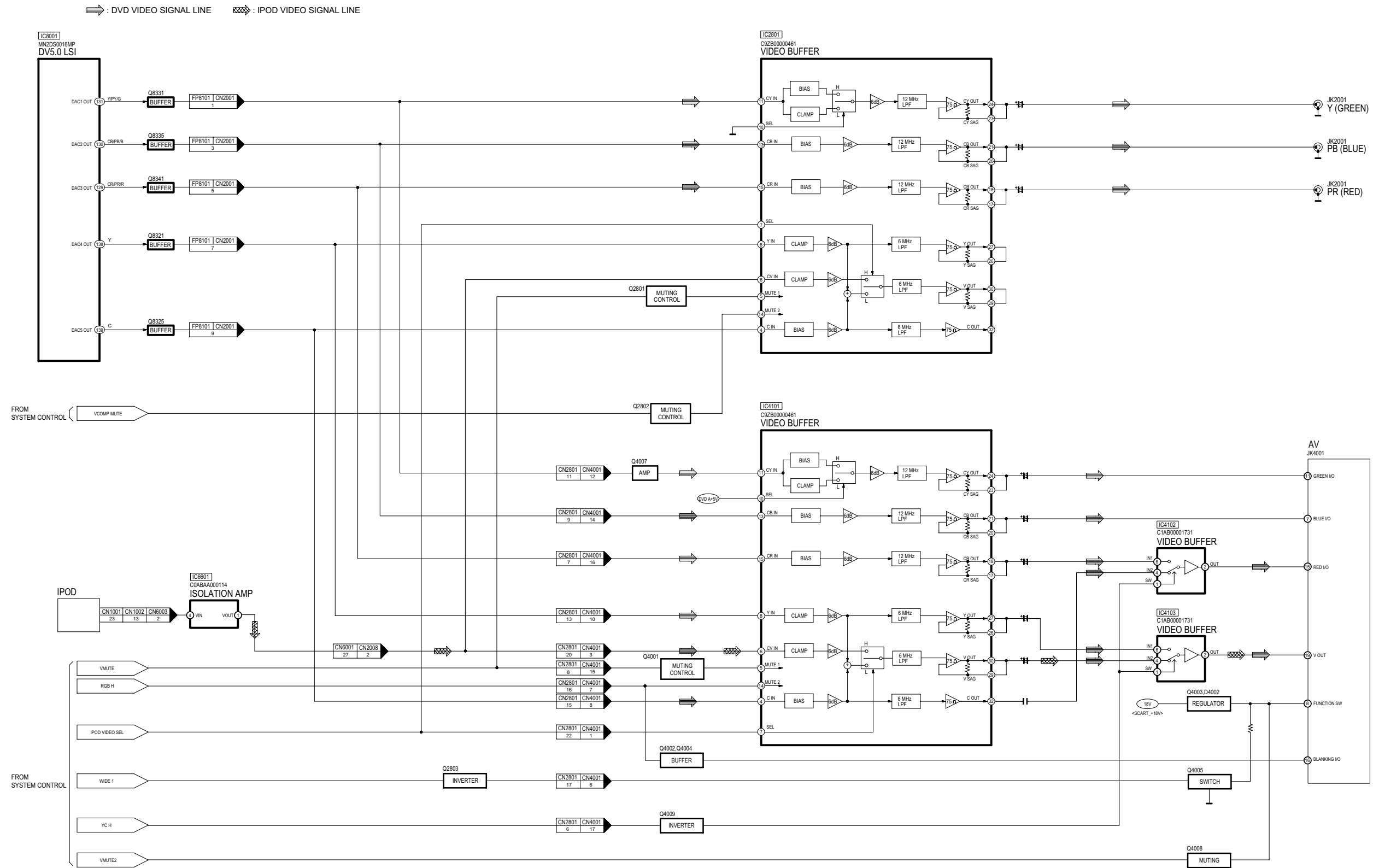
7.4. DVD (HDMI)

 : DVD AUDIO SIGNAL LINE
  : DVD VIDEO SIGNAL LINE
  : MAIN SIGNAL LINE



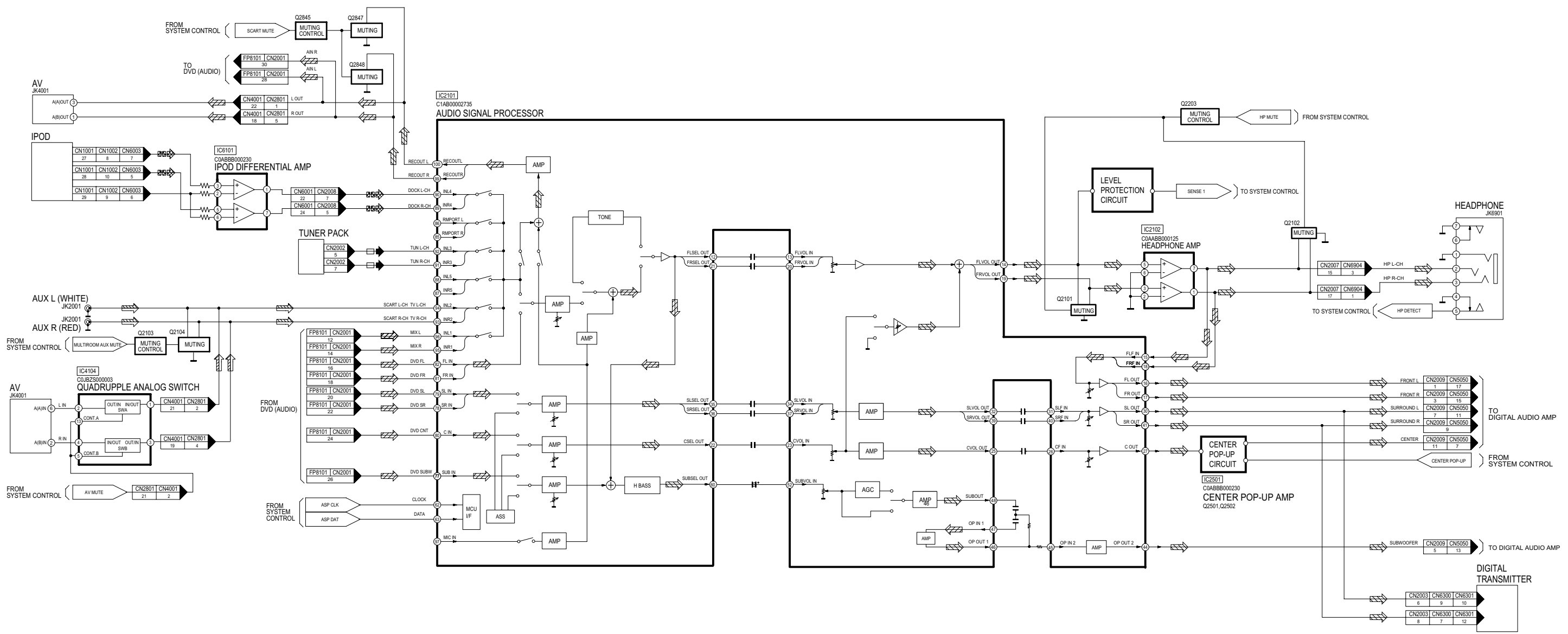
SA-PT560E/EB/EG DVD (HDMI) BLOCK DIAGRAM

17.5. VIDEO



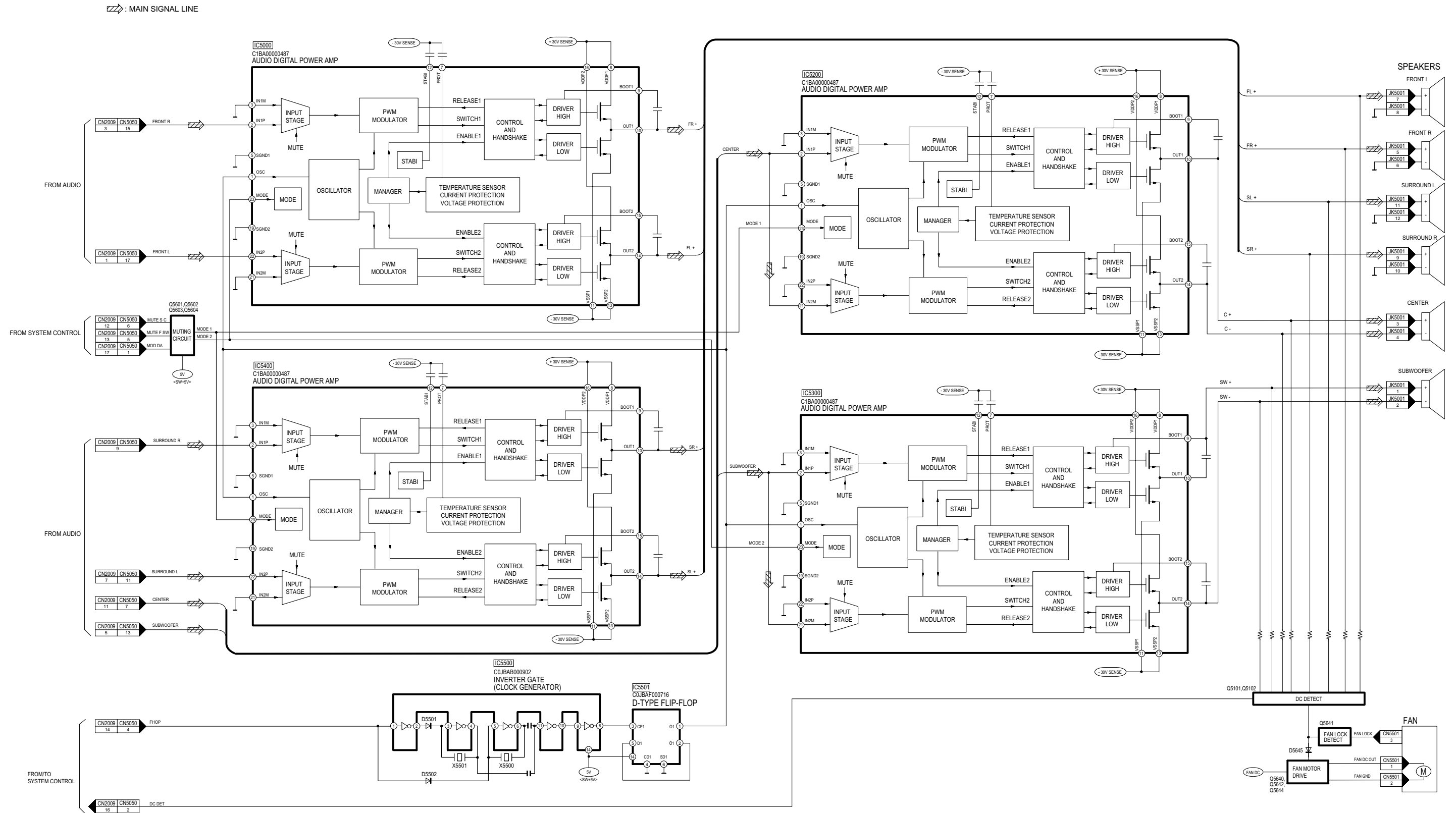
SA-PT560E/EB/EG VIDEO BLOCK DIAGRAM

: MAIN SIGNAL LINE
 : FM SIGNAL LINE
 : AUX SIGNAL LINE
 : IPOD AUDIO SIGNAL LINE
 : TV AUDIO SIGNAL LINE



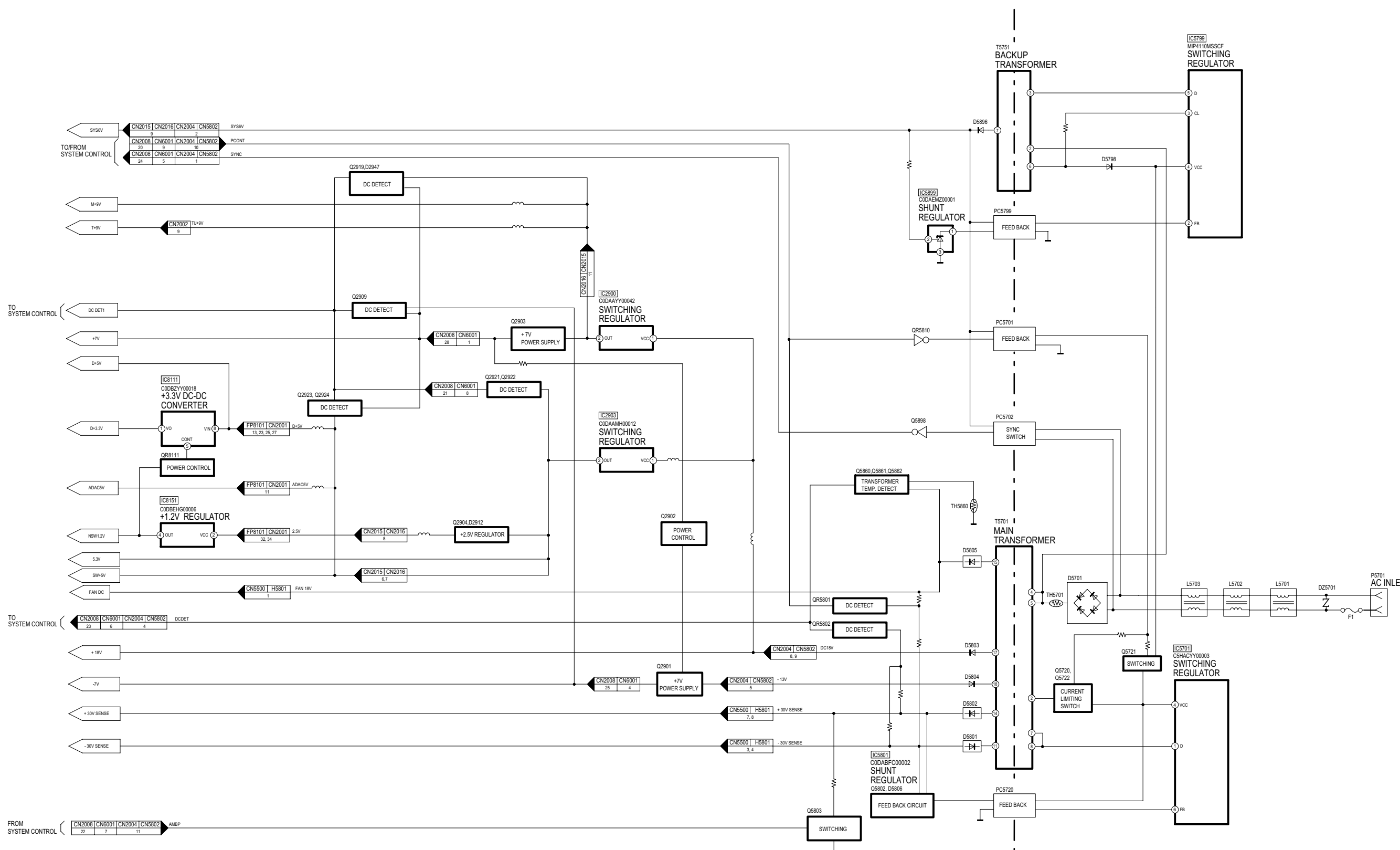
SA-PT560E/EB/EG AUDIO BLOCK DIAGRAM

17.7. Digital Audio Amp

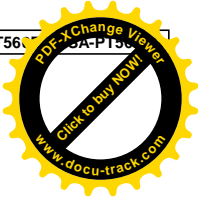
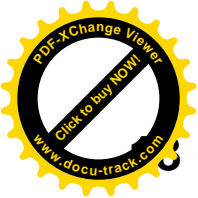


SA-PT560E/EB/EG DIGITAL AUDIO AMP BLOCK DIAGRAM

7.8. Power



SA-PT560E/EB/EG POWER BLOCK DIAGRAM



Schematic Diagram Notes

• This schematic diagram may be modified at any time with the development of new technology.

Notes:

- S6801:** Power switch (⏻ / AC IN).
- S6807:** Open/Close switch (⏴).
- S6901:** Play/Memory switch (▶).
- S6902:** Backward/Tune √ switch (⏪ / ⏩)
- S6903:** Forward/Tune ^ switch (⏴ / ⏵).
- S6904:** Stop/-Tune mode/—FM mode switch (■).
- S6905:** SW Boost switch.
- S6907:** Selector switch.
- VR6901:** VR volume jog.

• Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

• In case of AC rated voltage Capacitor, the part no. and values will be indicated in the Schematic Diagram.

AC rated voltage capacitor:

C5700, C5701, C5703, C5704, C5705, C5706, C5707,

• Resistor

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).


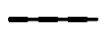









• Capacitor






Unit of capacitance is μF, unless otherwise noted. F=Farad, pF=Pico-Farad

• Coil

Unit of inductance is H, unless otherwise noted.

• Voltage and signal line

-  : +B signal line
-  : -B signal line
-  : USB signal line
-  : DVD RF signal line
-  : Motor Drive signal line
-  : DVD Audio signal line
-  : DVD Video signal line
-  : CD Head signal line
-  : DVD Head signal line
-  : Main signal line
-  : Tracking Error signal line


-  : Focus Error signal line
-  : FM signal line
-  : Ipod Video signal line
-  : Ipod Audio signal line
-  : TV Audio signal line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 T5AH 250V FUSE

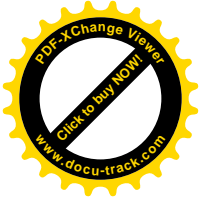
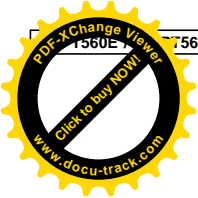


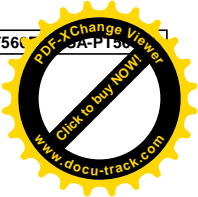
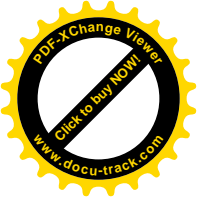
RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION



These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For rating, refer to the marking adjacent to the symbol.





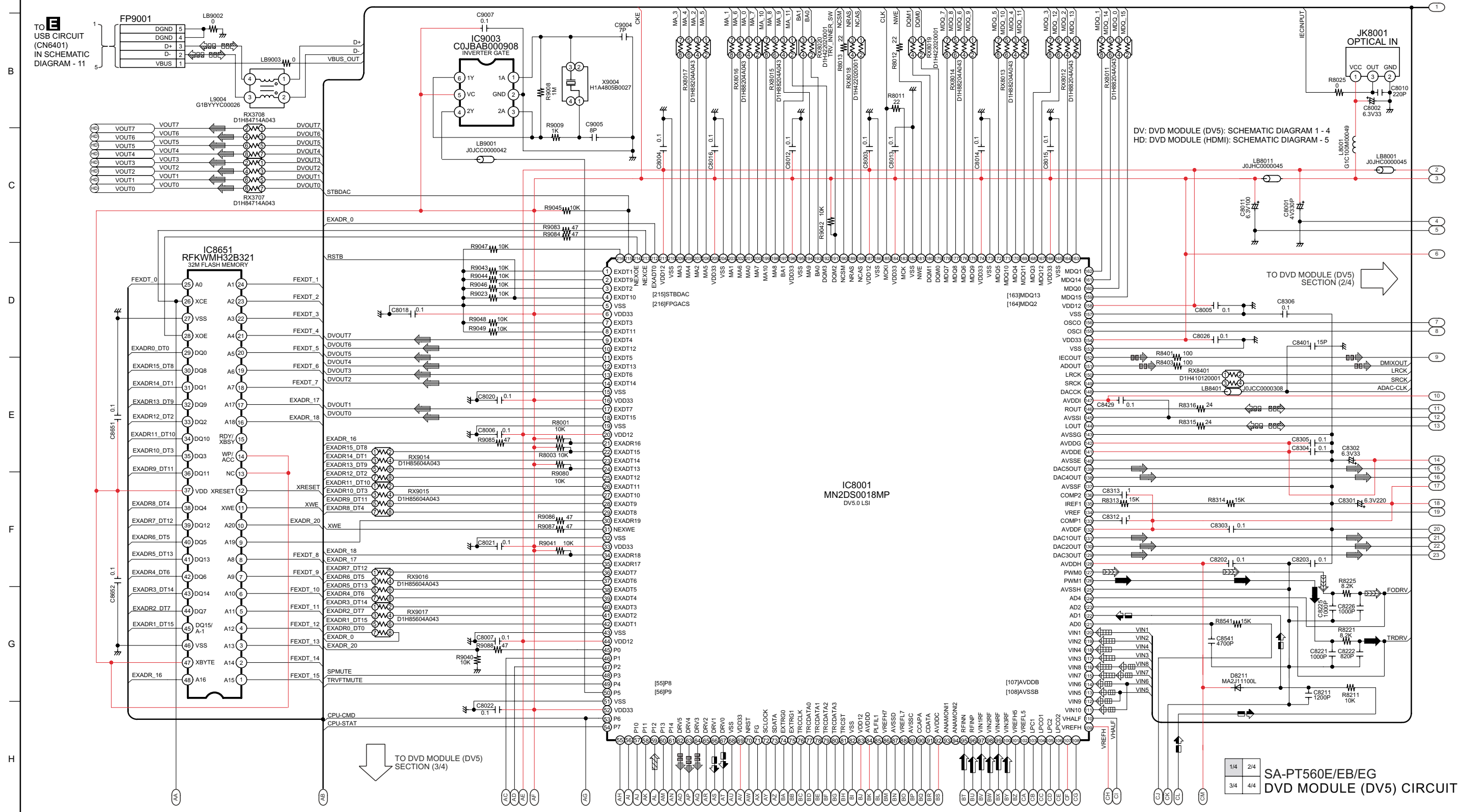
19 Schematic Diagram

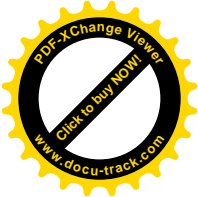
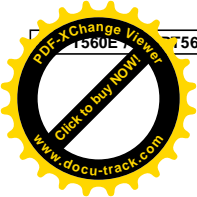
19.1. DVD Module Circuit

SCHEMATIC DIAGRAM - 1

DVD MODULE (DV5) CIRCUIT

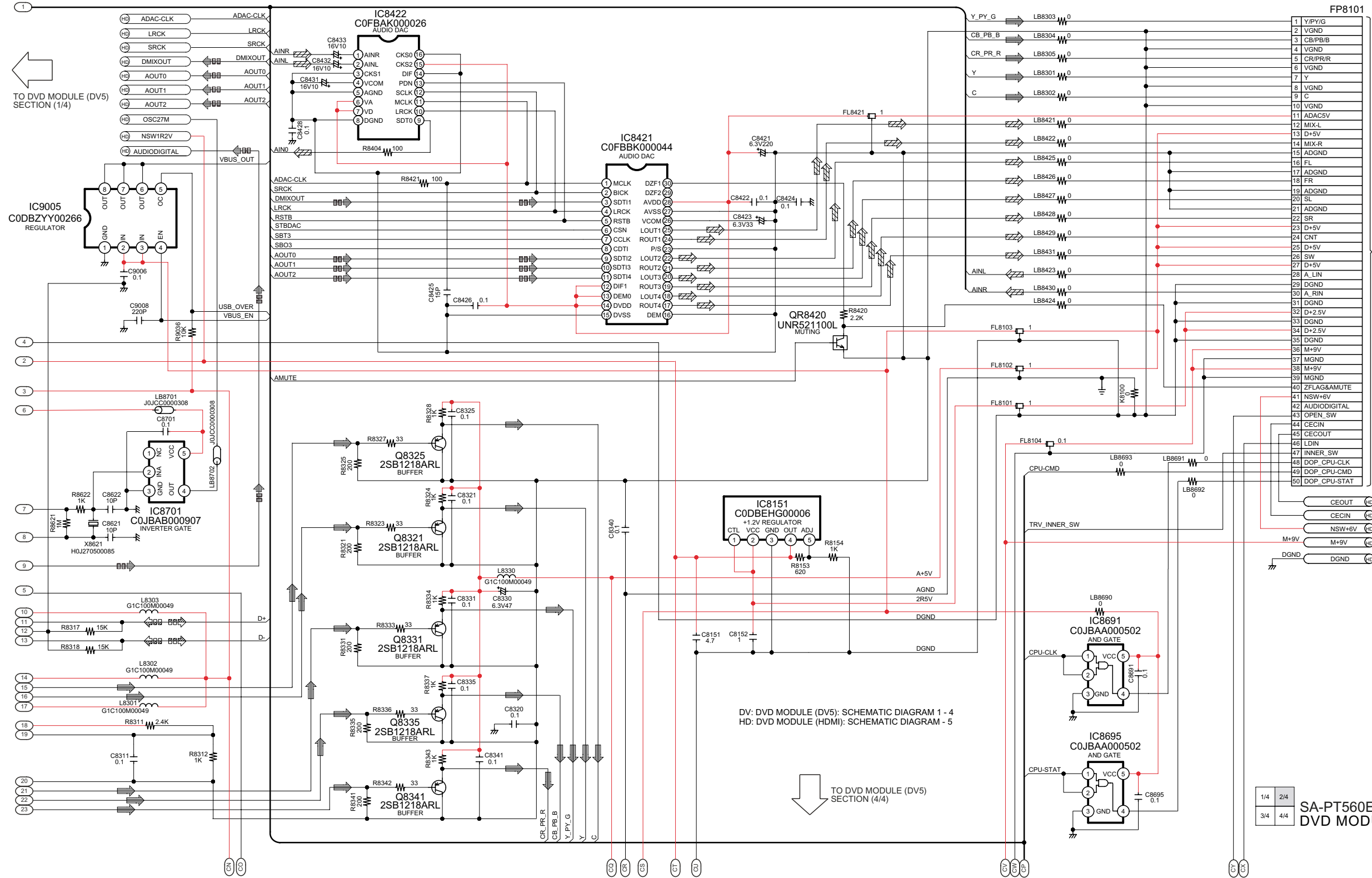
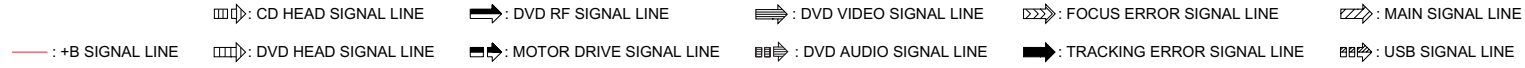
: CD HEAD SIGNAL LINE
 : DVD RF SIGNAL LINE
 : DVD VIDEO SIGNAL LINE
 : FOCUS ERROR SIGNAL LINE
 : MAIN SIGNAL LINE
 : +B SIGNAL LINE
 : DVD HEAD SIGNAL LINE
 : MOTOR DRIVE SIGNAL LINE
 : DVD AUDIO SIGNAL LINE
 : TRACKING ERROR SIGNAL LINE
 : USB SIGNAL LINE





SCHEMATIC DIAGRAM - 2

A DVD MODULE (DV5) CIRCUIT



B TO MAIN CIRCUIT (CN2001) IN SCHEMATIC DIAGRAM - 8

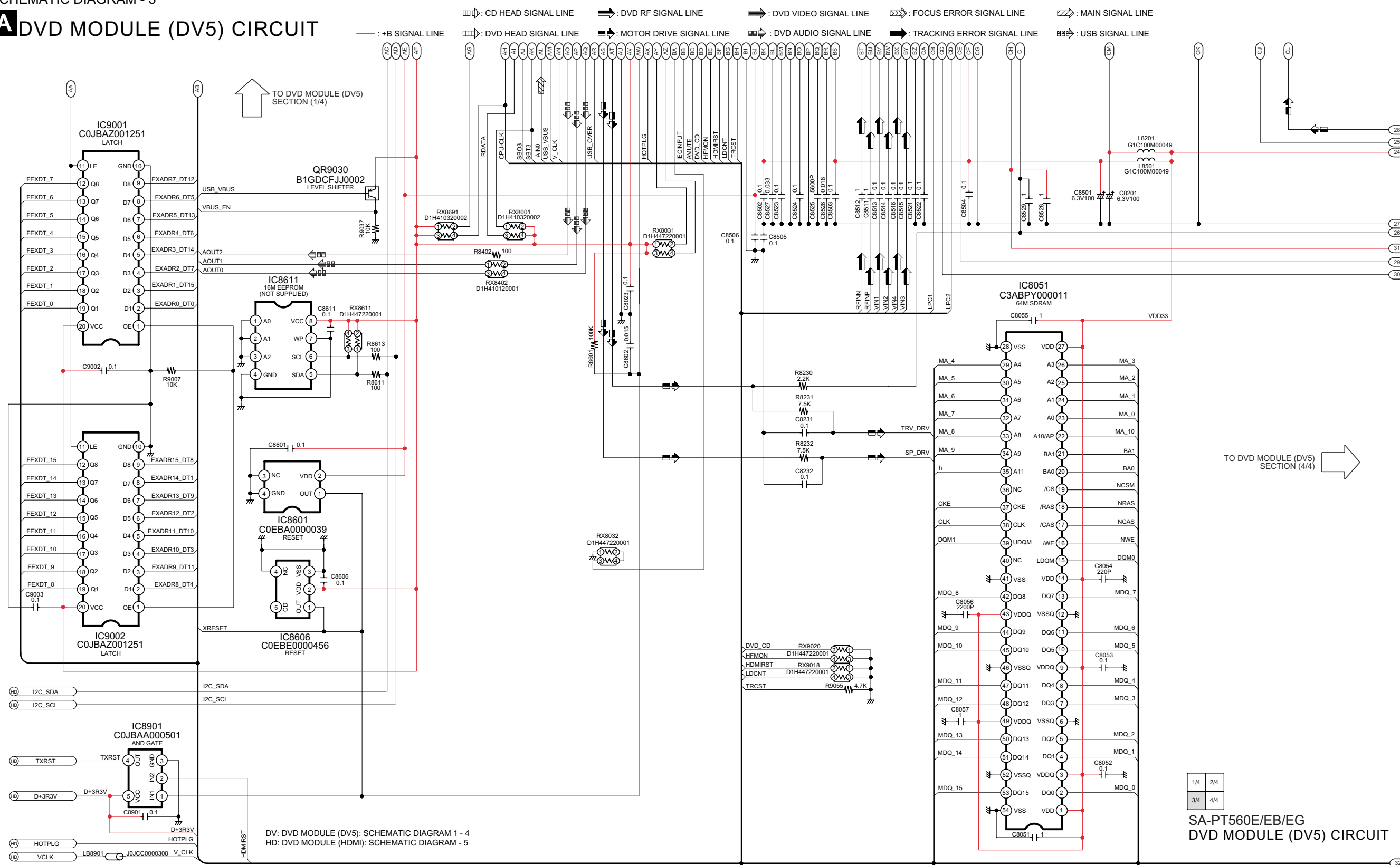
1	Y/PY/G
2	VGND
3	CB/PB/B
4	VGND
5	CR/PR/R
6	VGND
7	Y
8	VGND
9	C
10	VGND
11	ADAC5V
12	MIX-L
13	D+5V
14	MIX-R
15	ADGND
16	FL
17	ADGND
18	FR
19	ADGND
20	SL
21	ADGND
22	SR
23	D+5V
24	CNT
25	D+5V
26	SW
27	D+5V
28	A_LIN
29	DGND
30	A_RIN
31	DGND
32	D+2.5V
33	DGND
34	D+2.5V
35	DGND
36	M+9V
37	MGND
38	M+9V
39	MGND
40	ZFLAG&AMUTE
41	NSW+6V
42	AUDIODIGITAL
43	OPEN_SW
44	CECIN
45	CECOUT
46	LDIN
47	INNER_SW
48	DOP_CPU-CLK
49	DOP_CPU-CMD
50	DOP_CPU-STAT

DV: DVD MODULE (DV5): SCHEMATIC DIAGRAM 1 - 4
 HD: DVD MODULE (HDMI): SCHEMATIC DIAGRAM - 5

SA-PT560E/EB/EG
 DVD MODULE (DV5) CIRCUIT

SCHEMATIC DIAGRAM - 3

A DVD MODULE (DV5) CIRCUIT

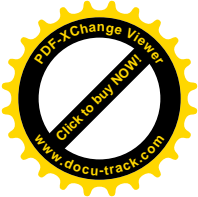
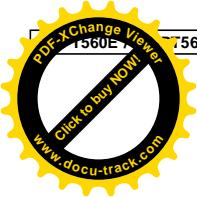


TO DVD MODULE (DV5) SECTION (1/4)

TO DVD MODULE (DV5) SECTION (4/4)

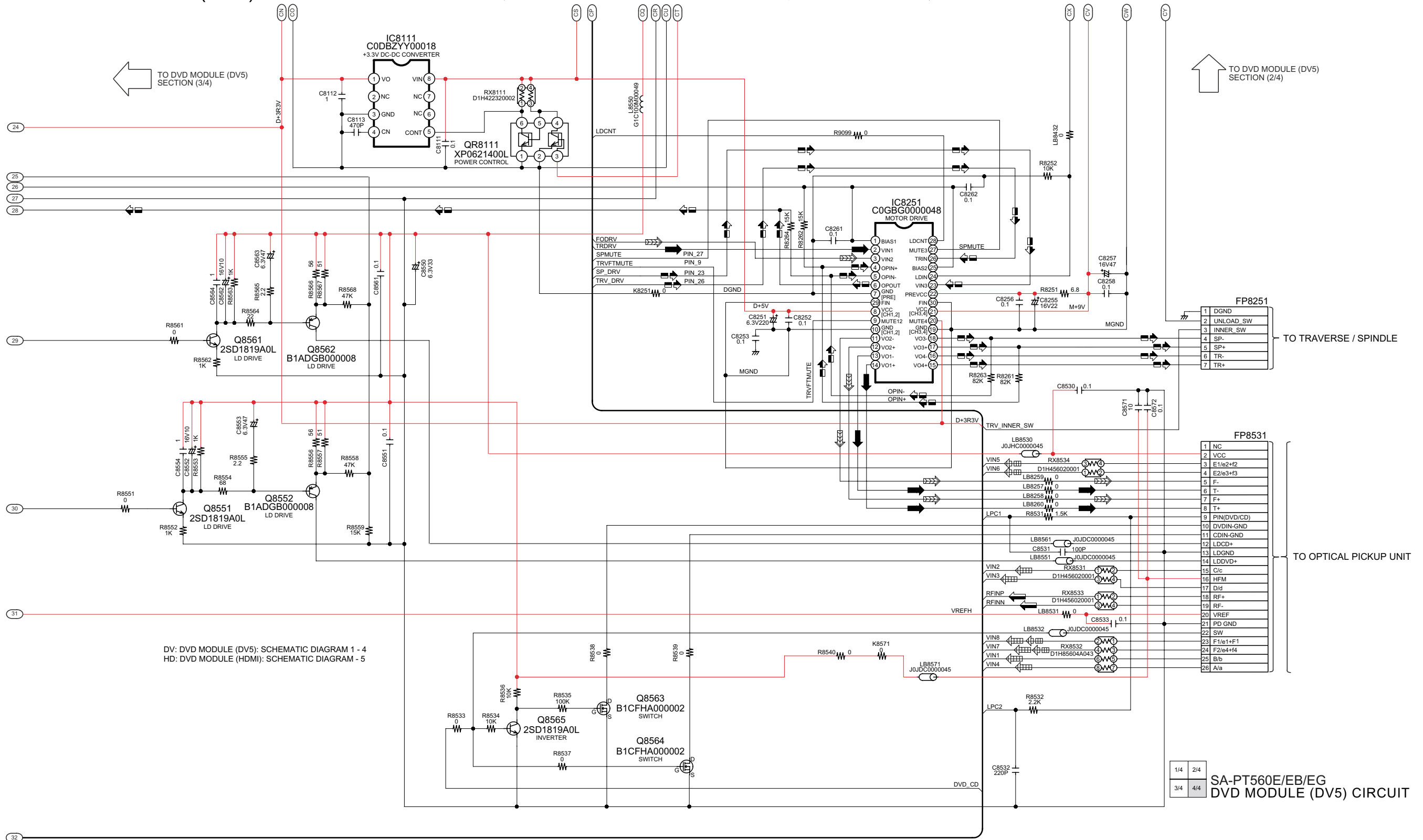
DV: DVD MODULE (DV5): SCHEMATIC DIAGRAM 1 - 4
HD: DVD MODULE (HDMI): SCHEMATIC DIAGRAM - 5

1/4 2/4
3/4 4/4
SA-PT560E/EB/EG
DVD MODULE (DV5) CIRCUIT



SCHEMATIC DIAGRAM - 4

A DVD MODULE (DV5) CIRCUIT



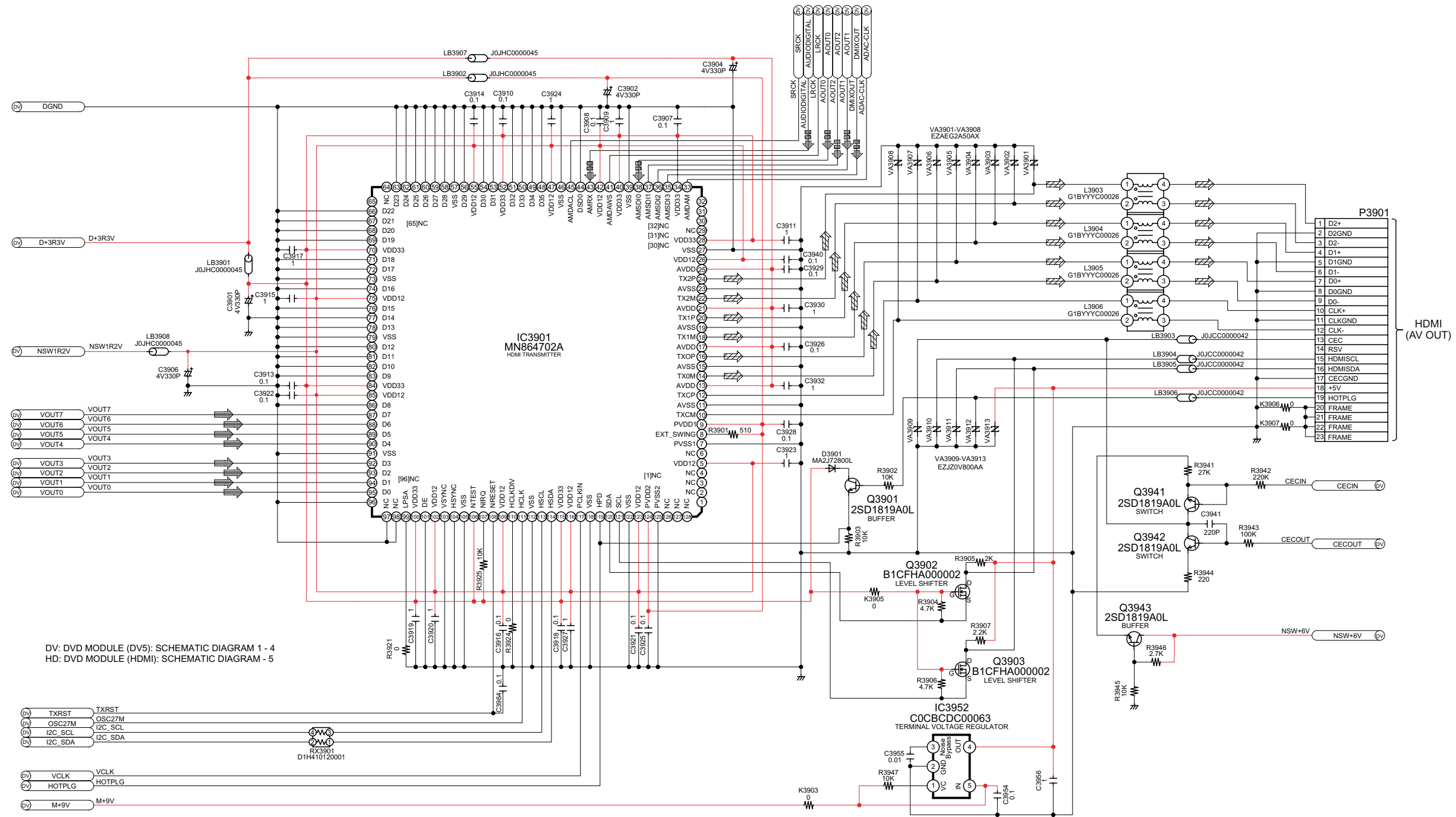
DV: DVD MODULE (DV5); SCHEMATIC DIAGRAM 1 - 4
 HD: DVD MODULE (HDMI); SCHEMATIC DIAGRAM - 5

1/4 2/4
 3/4 4/4
 SA-PT560E/EB/EG
 DVD MODULE (DV5) CIRCUIT

SCHEMATIC DIAGRAM - 5

A DVD MODULE (HDMI) CIRCUIT

— : +B SIGNAL LINE : DVD AUDIO SIGNAL LINE : DVD VIDEO SIGNAL LINE : MAIN SIGNAL LINE



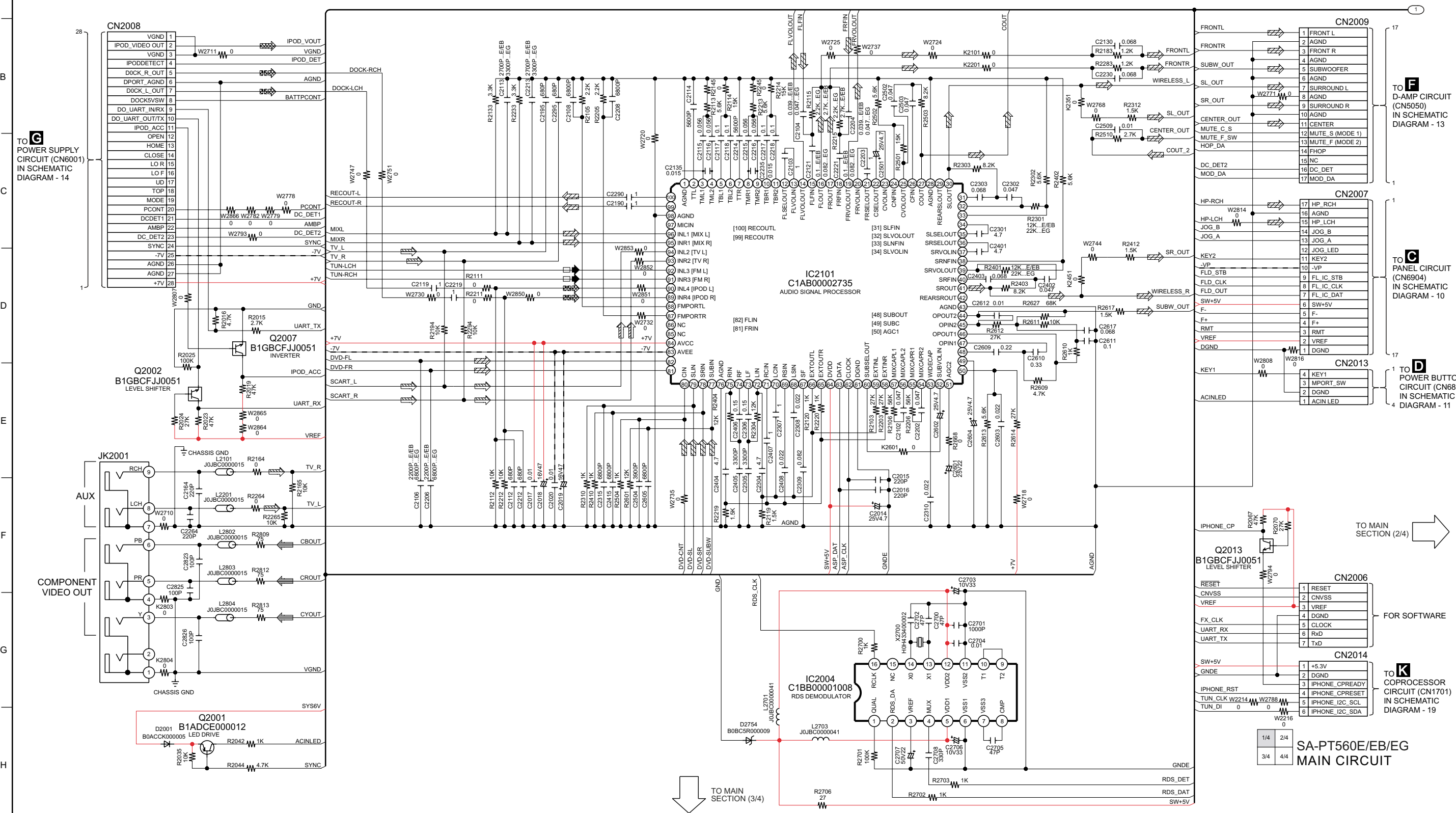
DV: DVD MODULE (DV5): SCHEMATIC DIAGRAM 1 - 4
HD: DVD MODULE (HDMI): SCHEMATIC DIAGRAM - 5

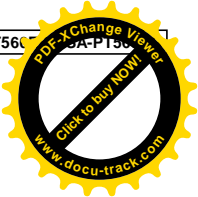
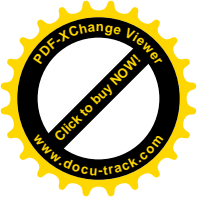
- (V) TXRST TXRST
 - (V) OSC27M OSC27M
 - (V) I2C_SCL I2C_SCL
 - (V) I2C_SDA I2C_SDA
 - (V) VCLK VCLK
 - (V) HOTPLG HOTPLG
 - (V) M+9V M+9V
- D1H410120001

SCHEMATIC DIAGRAM - 6

B MAIN CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE : MAIN SIGNAL LINE : FM SIGNAL LINE : DVD VIDEO SIGNAL LINE : IPOD VIDEO SIGNAL LINE : IPOD AUDIO SIGNAL LINE : TV AUDIO SIGNAL LINE



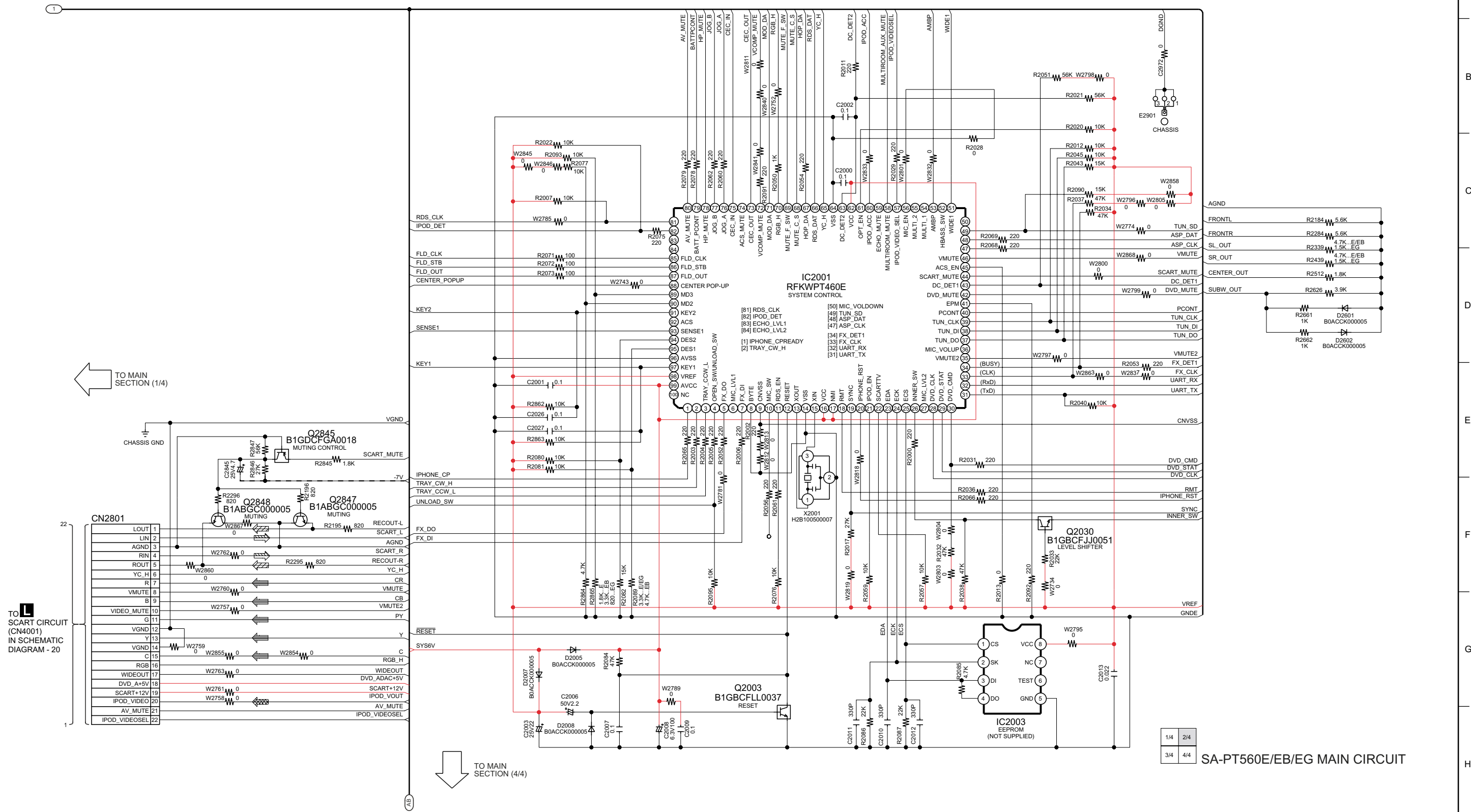


15 16 17 18 19 20 21 22 23 24 25 26 27 28

SCHEMATIC DIAGRAM - 7

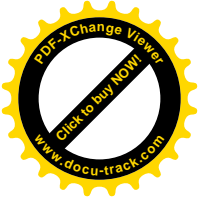
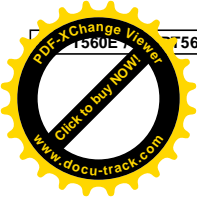
B MAIN CIRCUIT

--- : +B SIGNAL LINE
 --- : -B SIGNAL LINE
 : MAIN SIGNAL LINE
 : FM SIGNAL LINE
 : DVD VIDEO SIGNAL LINE
 : IPOD VIDEO SIGNAL LINE
 : IPOD AUDIO SIGNAL LINE
 : TV AUDIO SIGNAL LINE



1/4	2/4
3/4	4/4

SA-PT560E/EB/EG MAIN CIRCUIT



SCHEMATIC DIAGRAM - 8

B MAIN CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE ≡ : MAIN SIGNAL LINE ◻ : FM SIGNAL LINE ⇨ : DVD VIDEO SIGNAL LINE ⊠ : IPOD VIDEO SIGNAL LINE ⊠ : IPOD AUDIO SIGNAL LINE ⇨ : TV AUDIO SIGNAL LINE

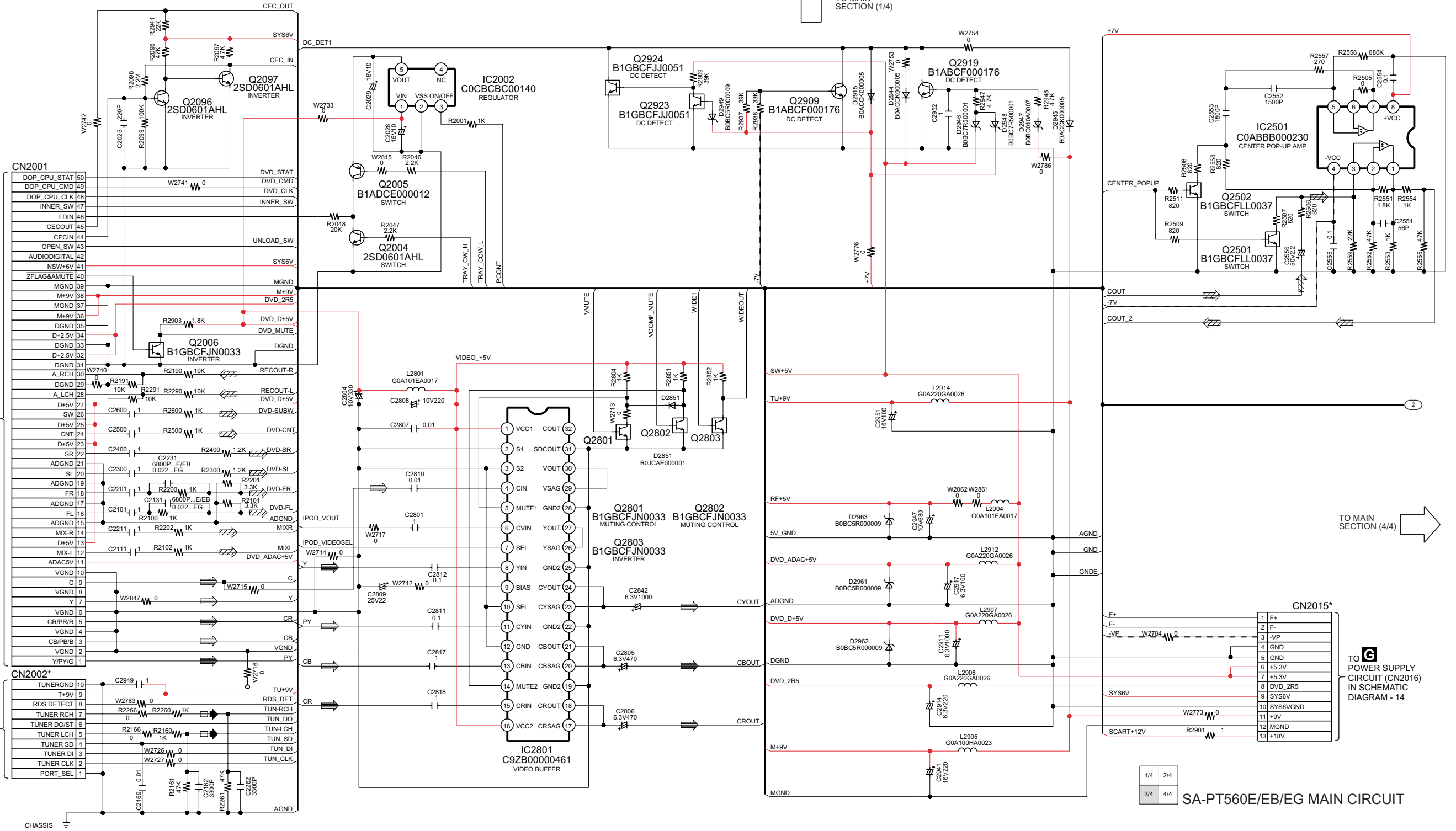
↑ TO MAIN SECTION (1/4)

→ TO MAIN SECTION (4/4)

TO **A** DVD MODULE (DV5) CIRCUIT (FP8101) IN SCHEMATIC DIAGRAM - 2

TO TUNER PACK (ENG07824QRF)

TO **C** POWER SUPPLY CIRCUIT (CN2016) IN SCHEMATIC DIAGRAM - 14

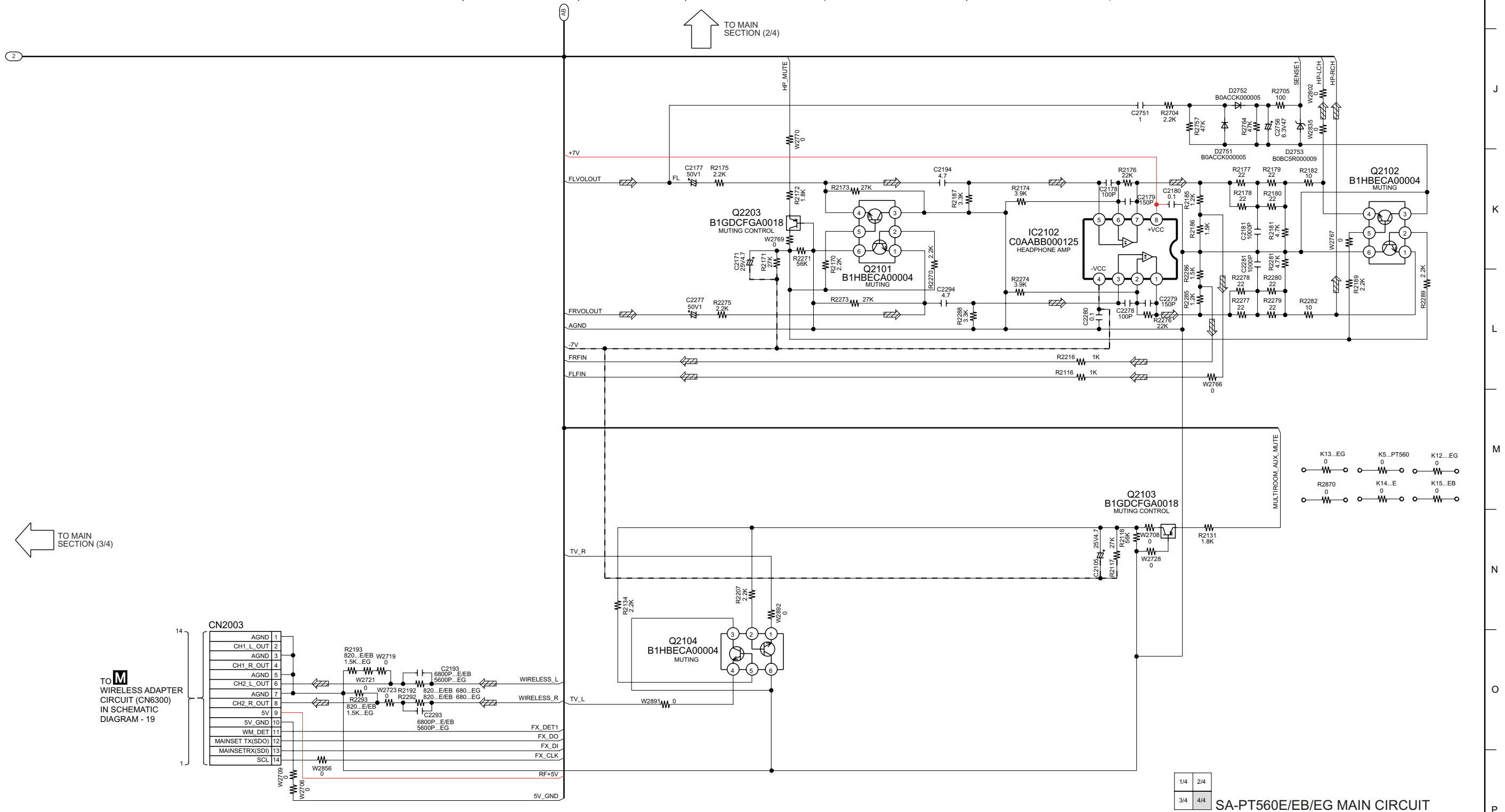


1/4	2/4
3/4	4/4

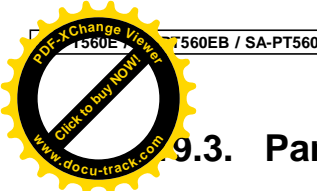
SCHEMATIC DIAGRAM - 9

B MAIN CIRCUIT

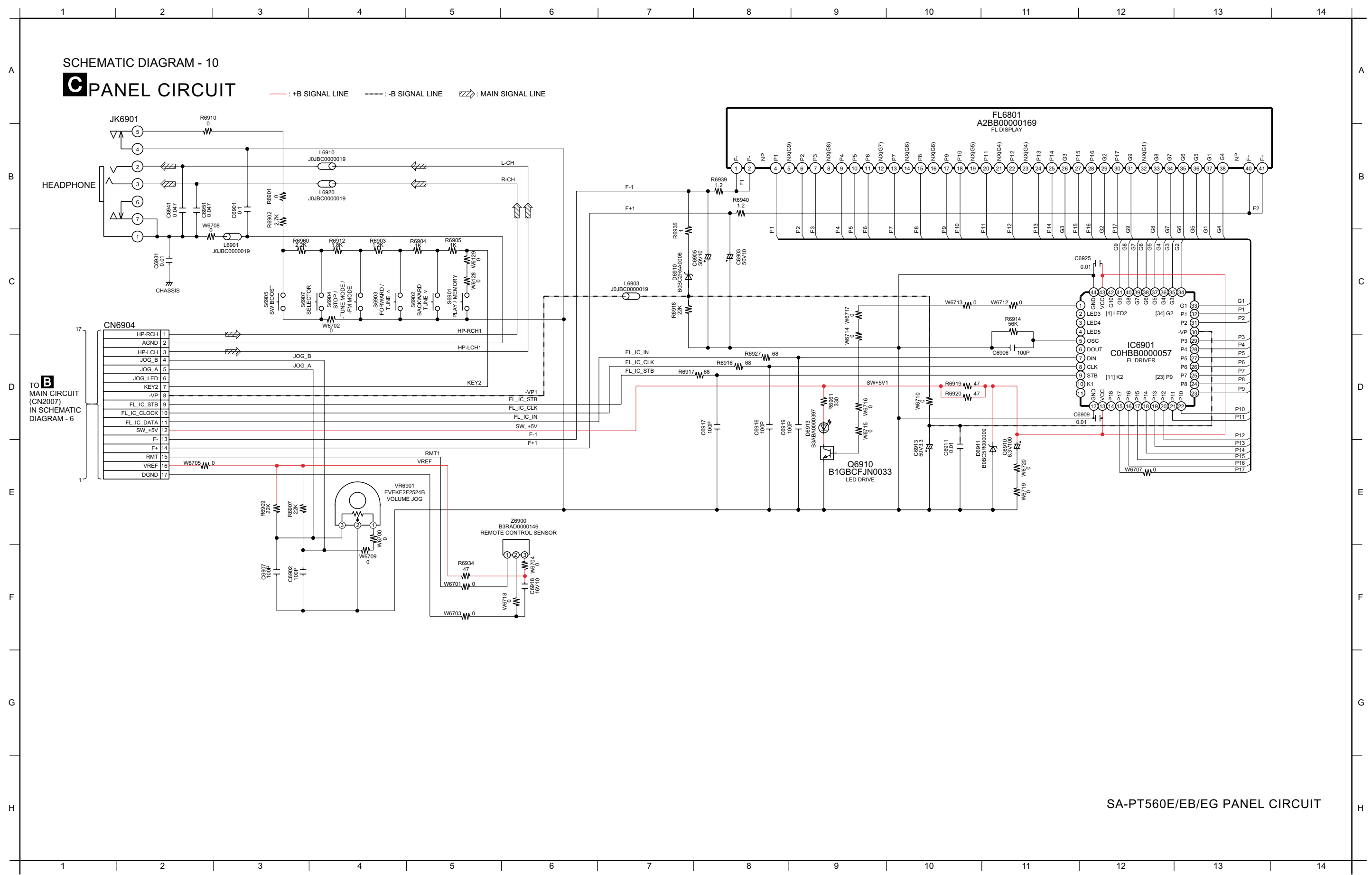
— : +B SIGNAL LINE - - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ◻ : FM SIGNAL LINE ⇨ : DVD VIDEO SIGNAL LINE ⇨ : IPOD VIDEO SIGNAL LINE ⇨ : IPOD AUDIO SIGNAL LINE ⇨ : TV AUDIO SIGNAL LINE



TO **M** WIRELESS ADAPTER CIRCUIT (CN6300) IN SCHEMATIC DIAGRAM - 19



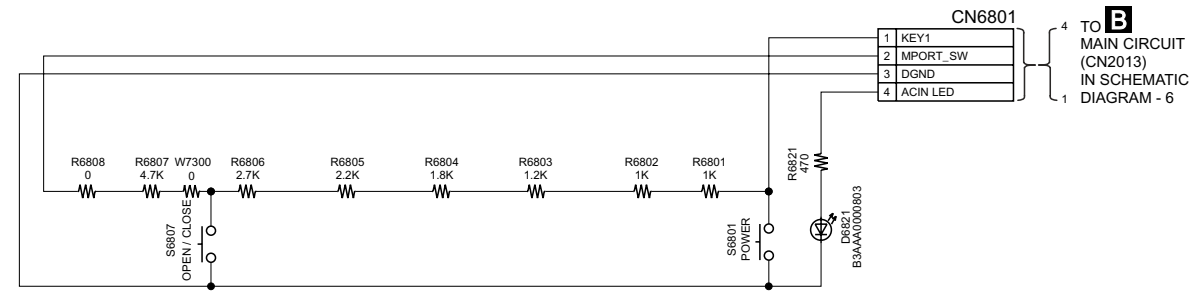
9.3. Panel Circuit



19.4. Power Button, USB Circuit

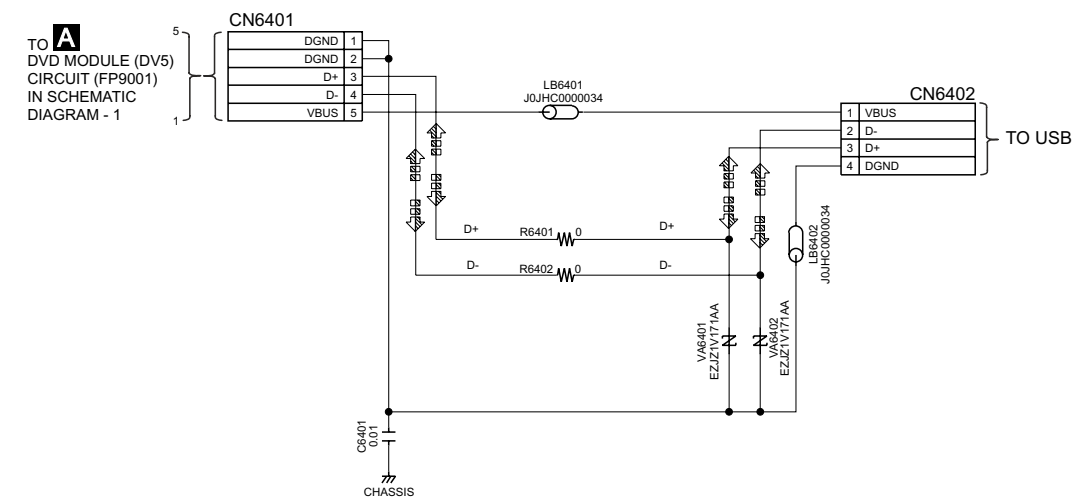
SCHEMATIC DIAGRAM - 11

D POWER BUTTON CIRCUIT

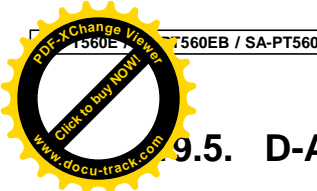


E USB CIRCUIT

--- : USB SIGNAL LINE



SA-PT560E/EB/EG POWER BUTTON / USB CIRCUIT

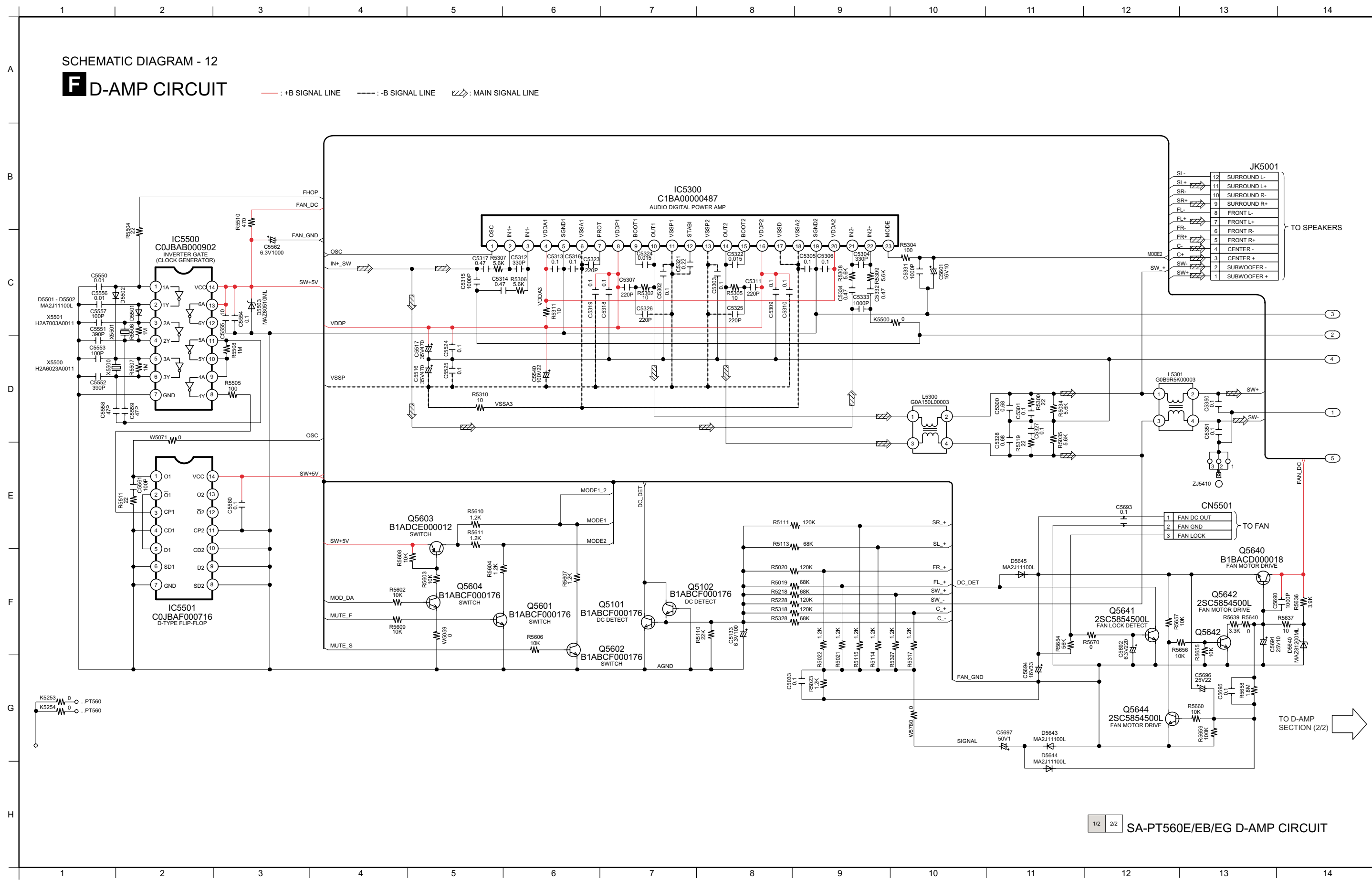


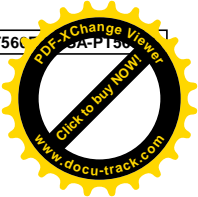
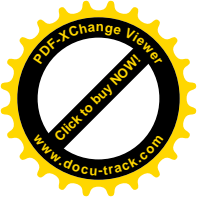
9.5. D-Amp Circuit

SCHEMATIC DIAGRAM - 12

D-AMP CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE





15 16 17 18 19 20 21 22 23 24 25 26 27 28

SCHEMATIC DIAGRAM - 13

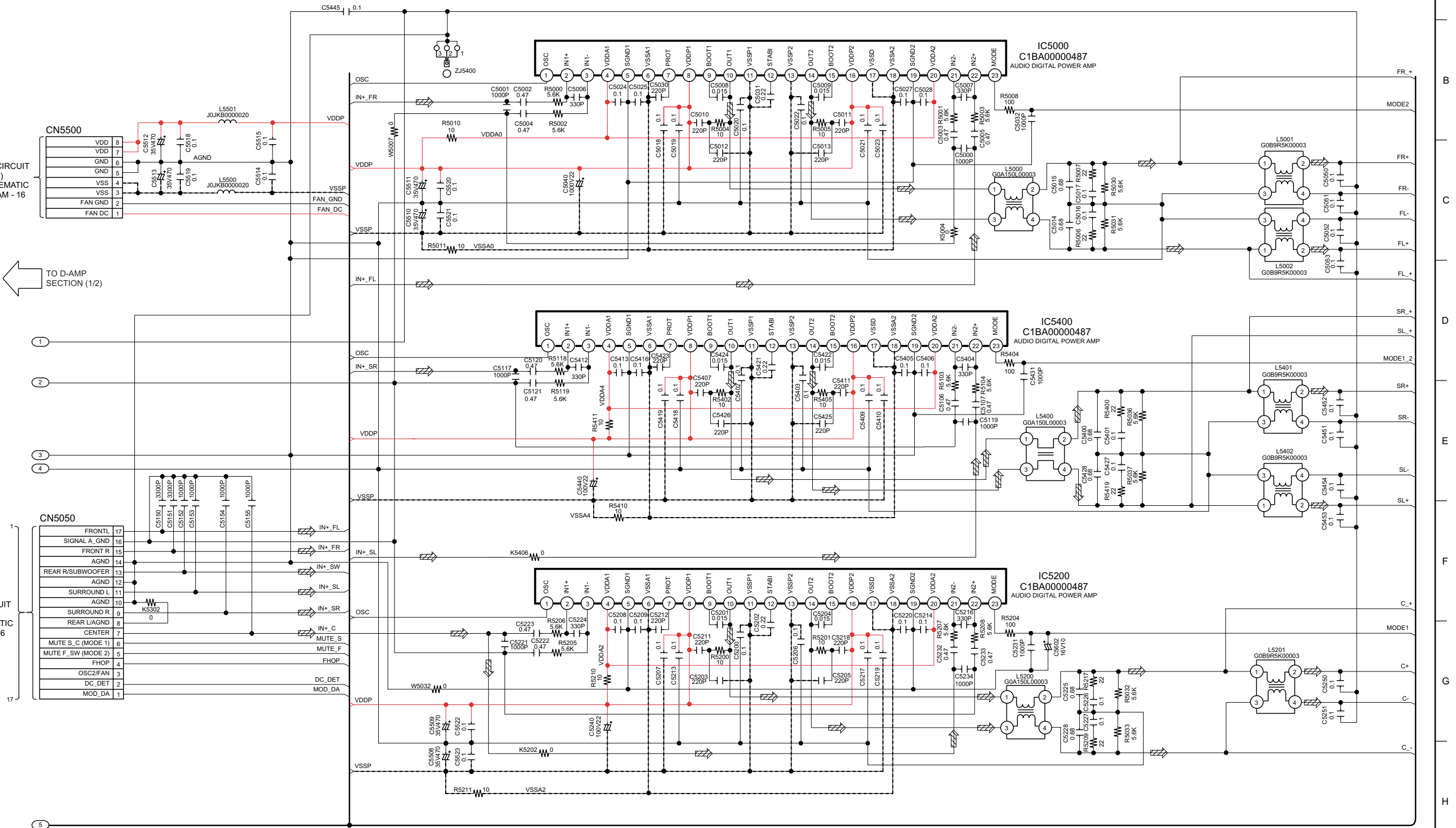
F D-AMP CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE : MAIN SIGNAL LINE

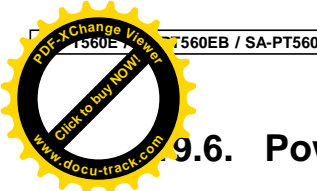
TO **A** SMPS CIRCUIT (H5801*) IN SCHEMATIC DIAGRAM - 16

TO D-AMP SECTION (1/2)

TO **B** MAIN CIRCUIT (CN2009) IN SCHEMATIC DIAGRAM - 6



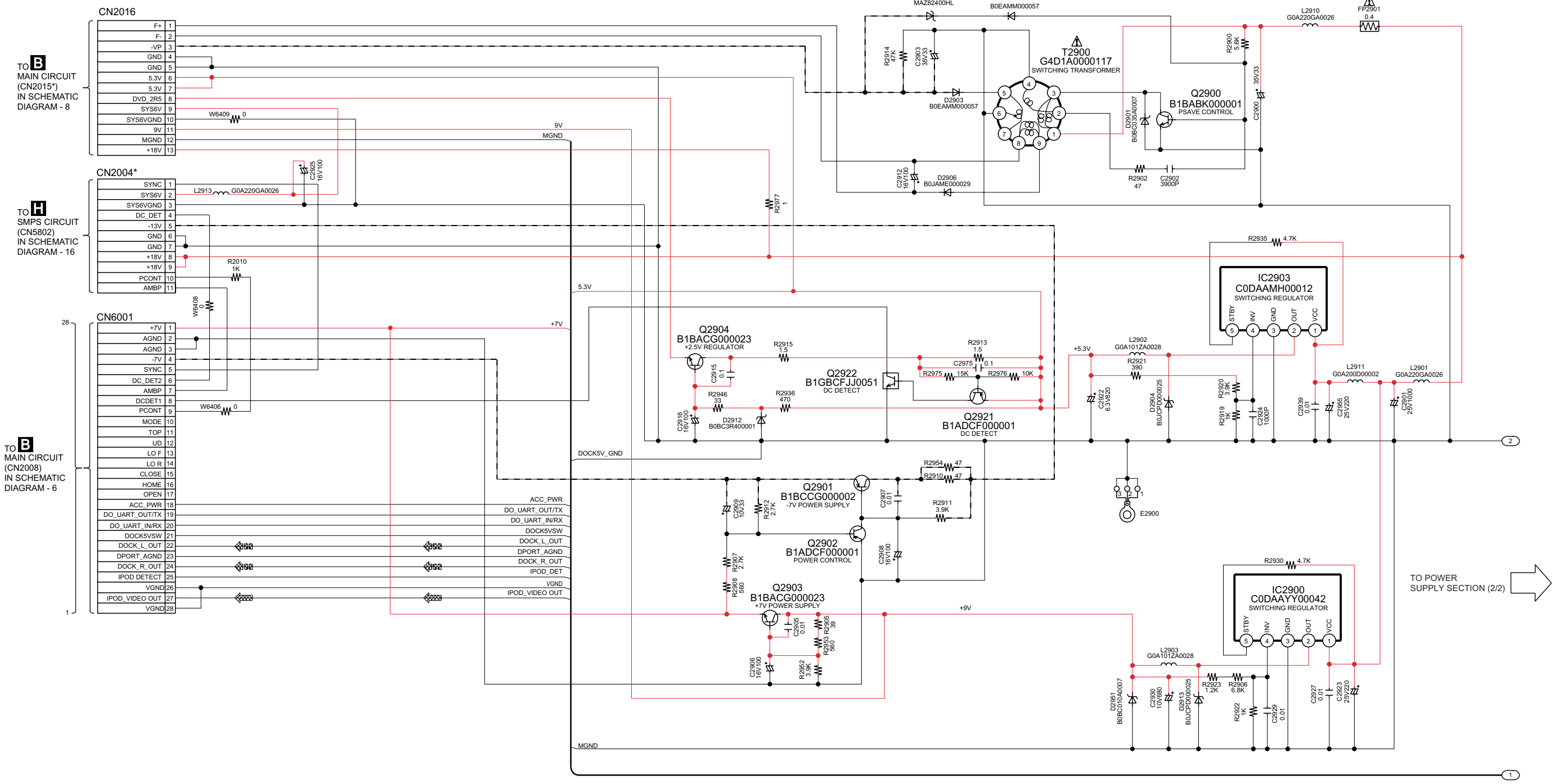
15 16 17 18 19 20 21 22 23 24 25 26 27 28

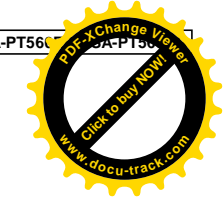
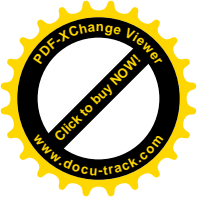


9.6. Power Supply Circuit

SCHEMATIC DIAGRAM - 14 POWER SUPPLY CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE : IPOD AUDIO SIGNAL LINE : IPOD VIDEO SIGNAL LINE



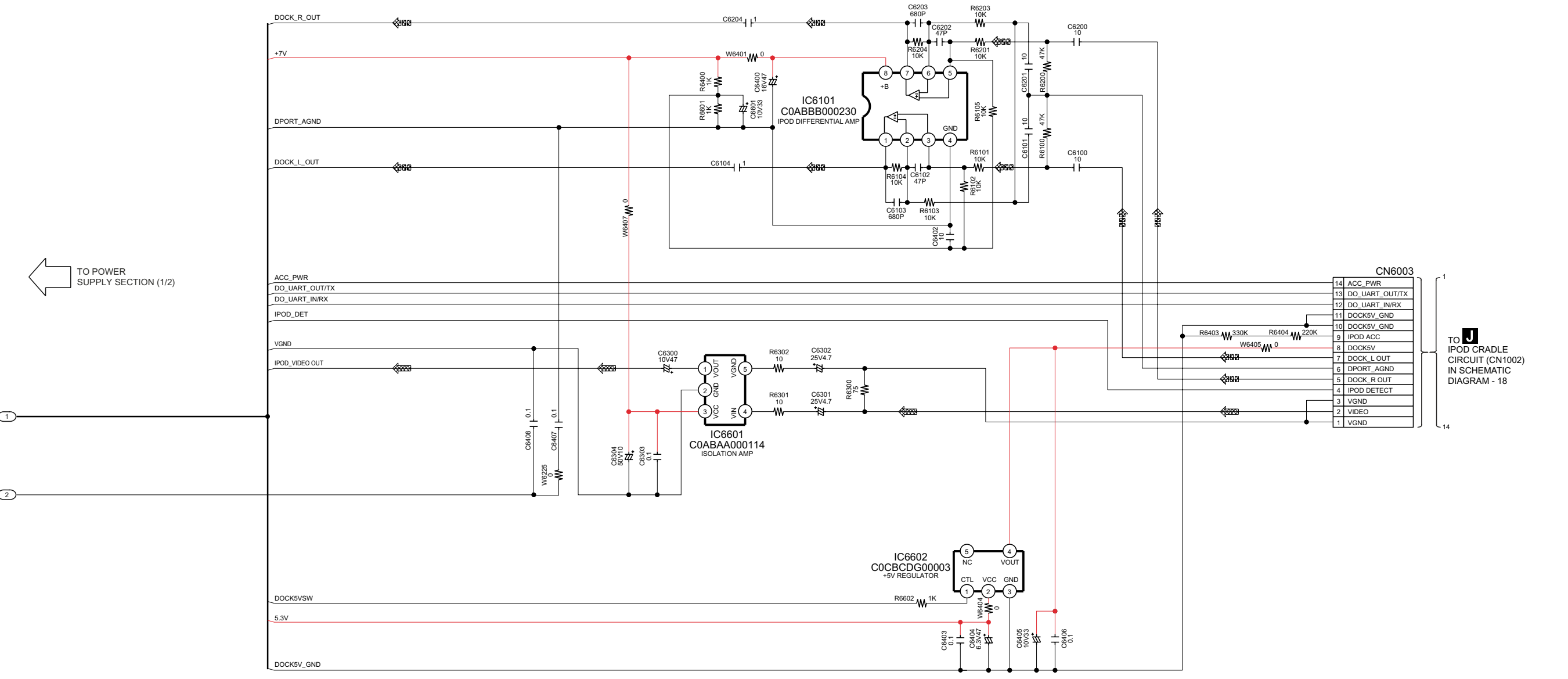


15 16 17 18 19 20 21 22 23 24 25 26 27 28

SCHEMATIC DIAGRAM - 15

G POWER SUPPLY CIRCUIT

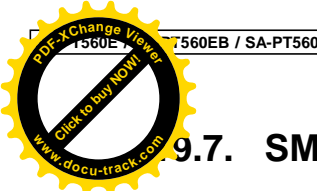
— : +B SIGNAL LINE - - - : -B SIGNAL LINE : IPOD AUDIO SIGNAL LINE : IPOD VIDEO SIGNAL LINE



← TO POWER SUPPLY SECTION (1/2)

TO IPOD CRADLE CIRCUIT (CN1002) IN SCHEMATIC DIAGRAM - 18

15 16 17 18 19 20 21 22 23 24 25 26 27 28

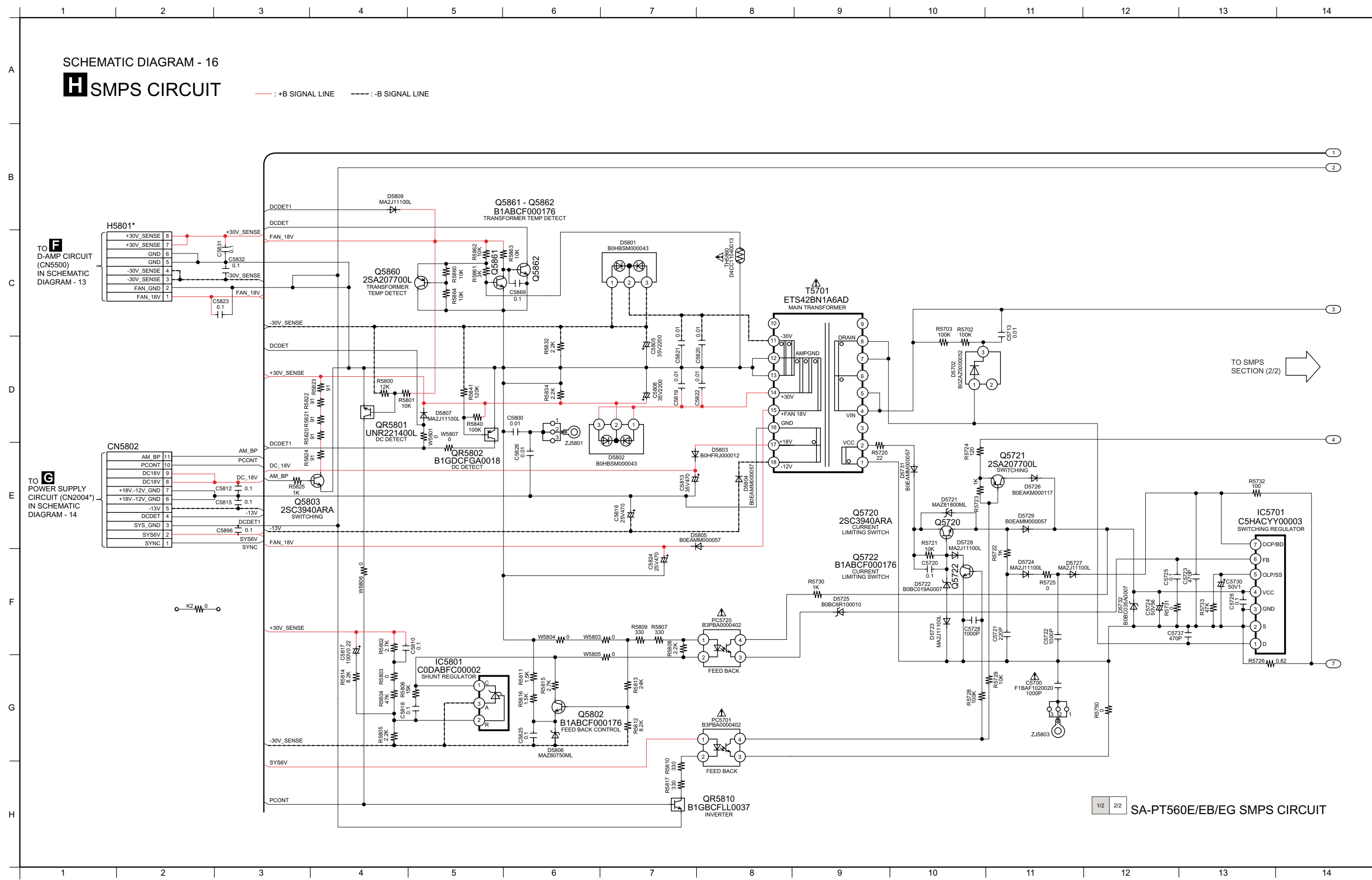


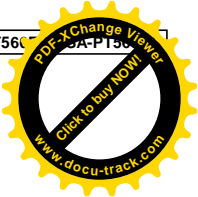
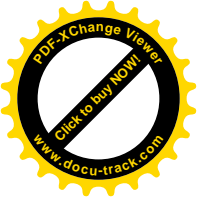
9.7. SMPS Circuit

SCHEMATIC DIAGRAM - 16

H SMPS CIRCUIT

--- : +B SIGNAL LINE
- - - : -B SIGNAL LINE



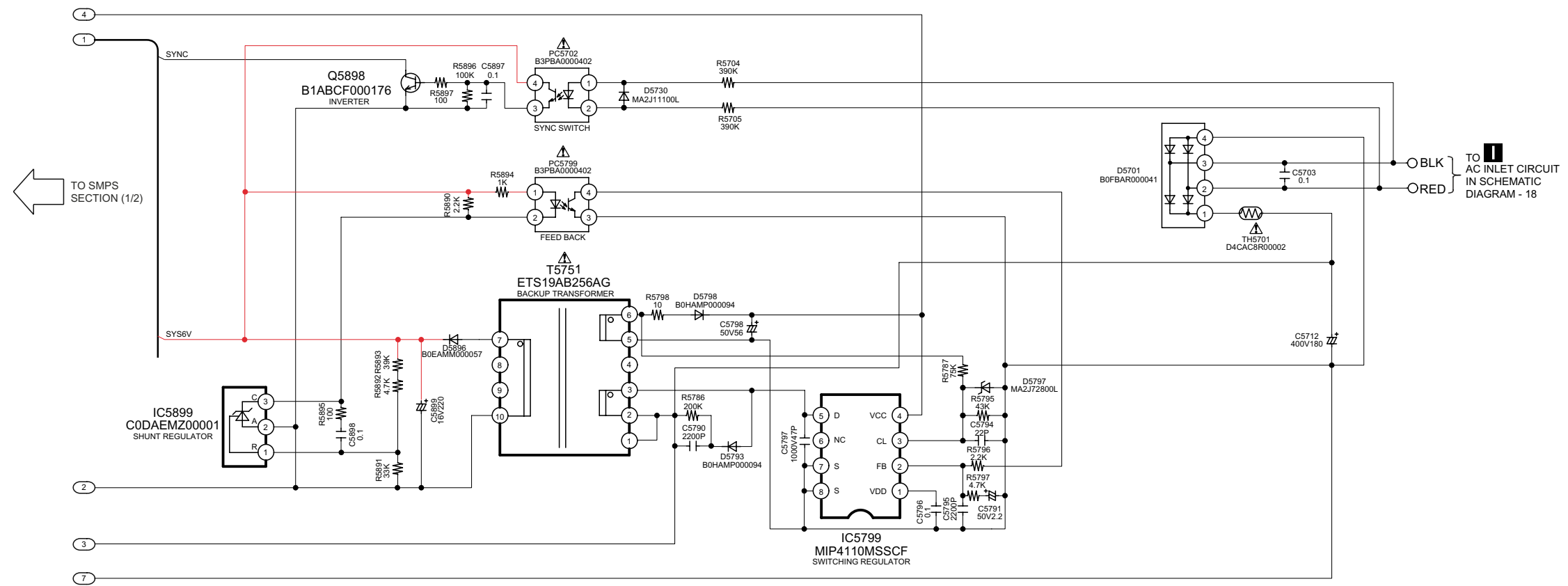


15 16 17 18 19 20 21 22 23 24 25 26 27 28

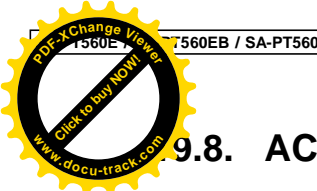
SCHEMATIC DIAGRAM - 17

H SMPS CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE

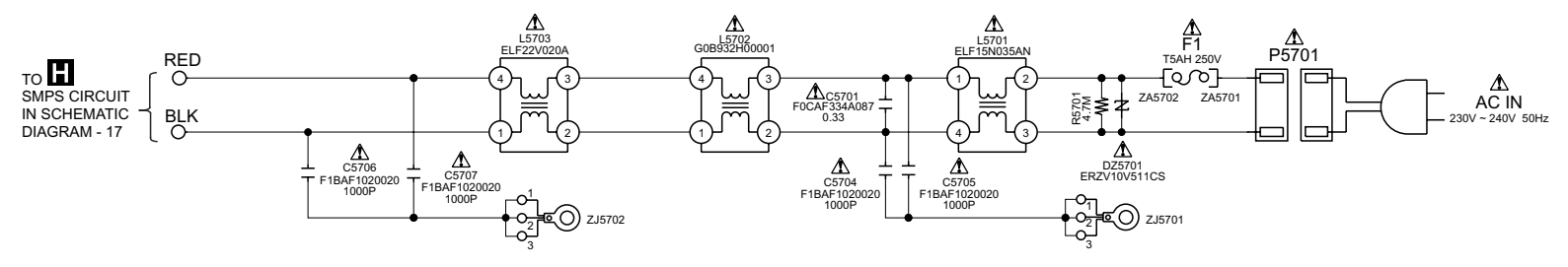


15 16 17 18 19 20 21 22 23 24 25 26 27 28



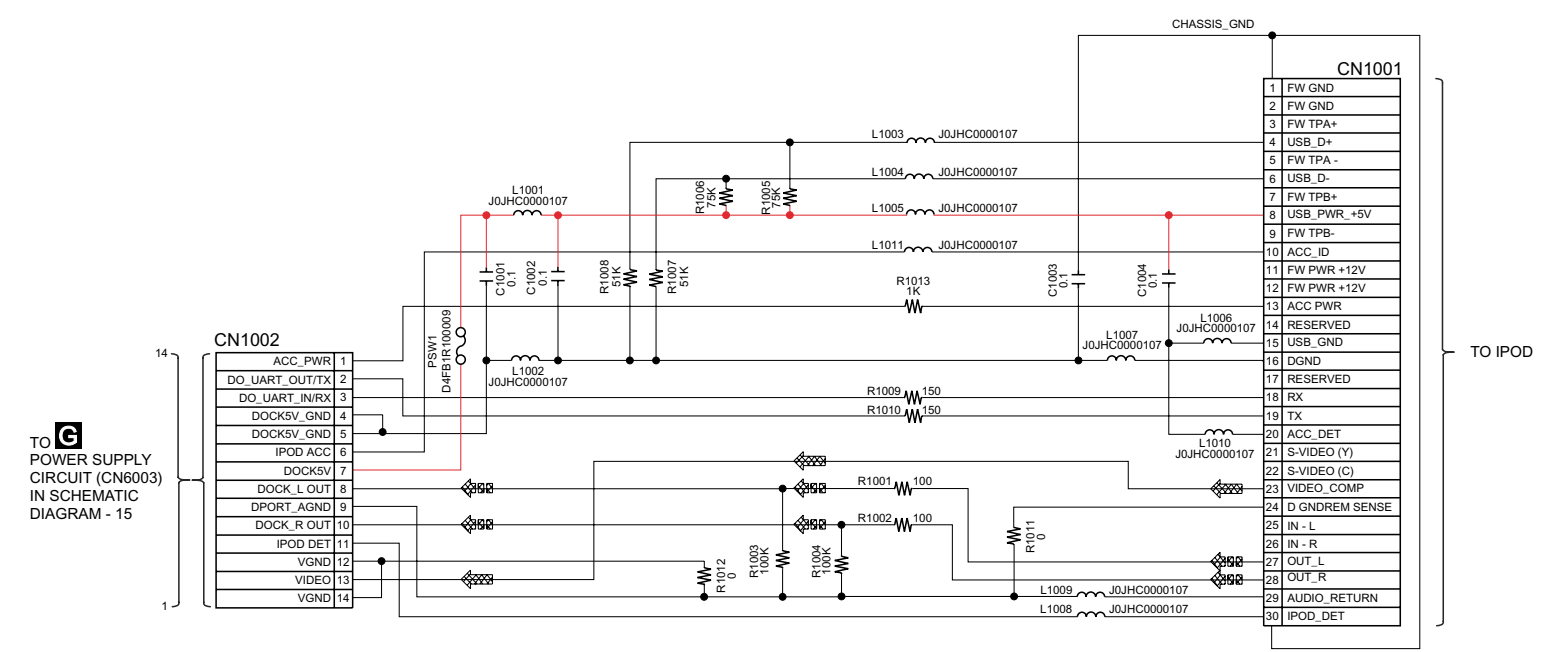
9.8. AC Inlet, Ipod Cradle

SCHEMATIC DIAGRAM - 18 AC INLET CIRCUIT



IPOD CRADLE CIRCUIT

— : +B SIGNAL LINE : IPOD AUDIO SIGNAL LINE : IPOD VIDEO SIGNAL LINE

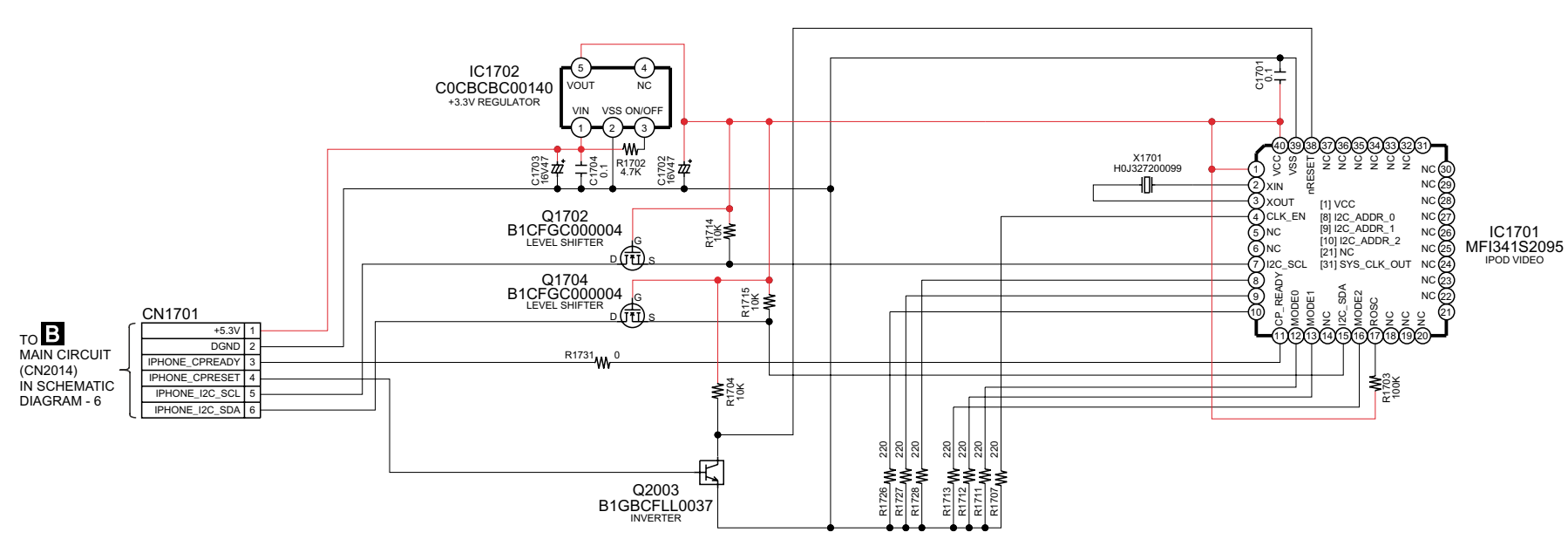


SA-PT560E/EB/EG AC INLET / IPOD CRADLE CIRCUIT

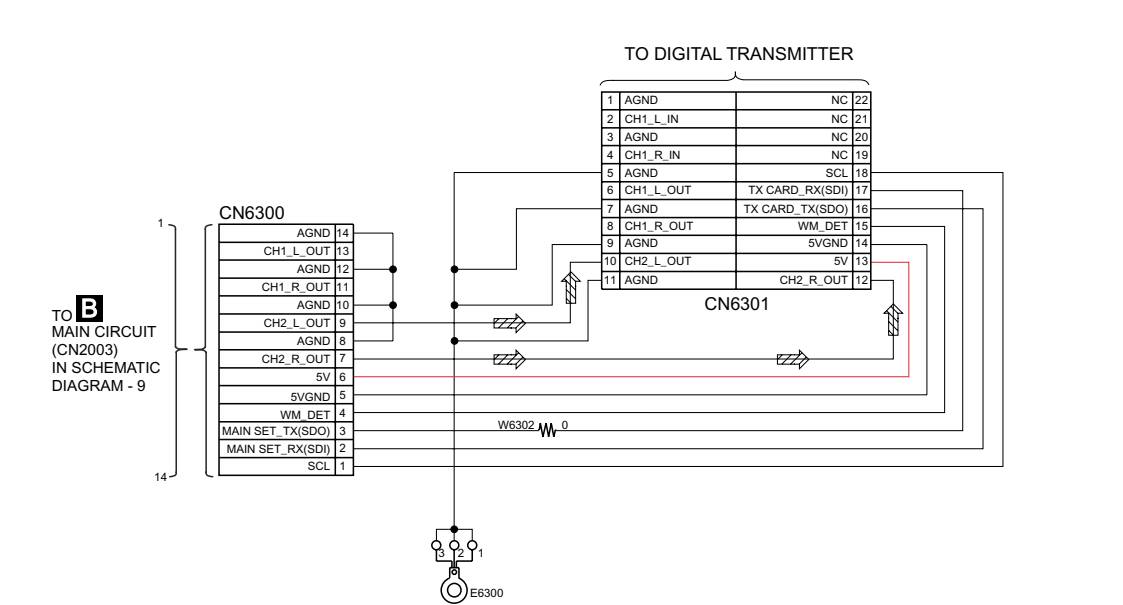
19.9. Coprocessor, Wireless Adapter Circuit

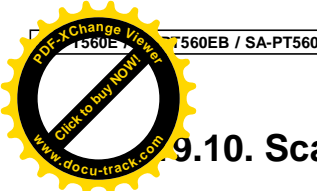
SCHEMATIC DIAGRAM - 19

K COPROCESSOR CIRCUIT

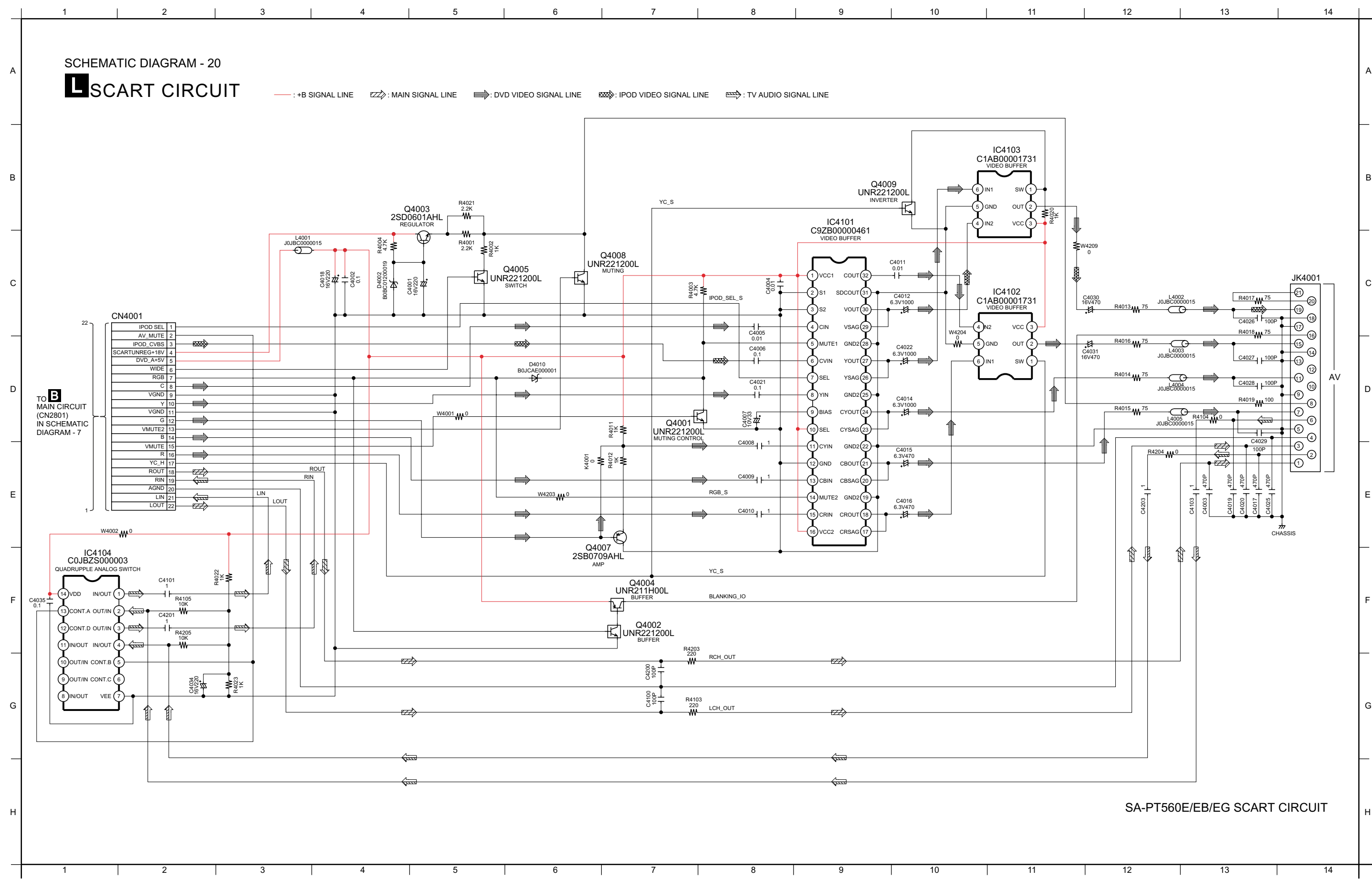


M WIRELESS ADAPTER CIRCUIT





9.10. Scart Circuit

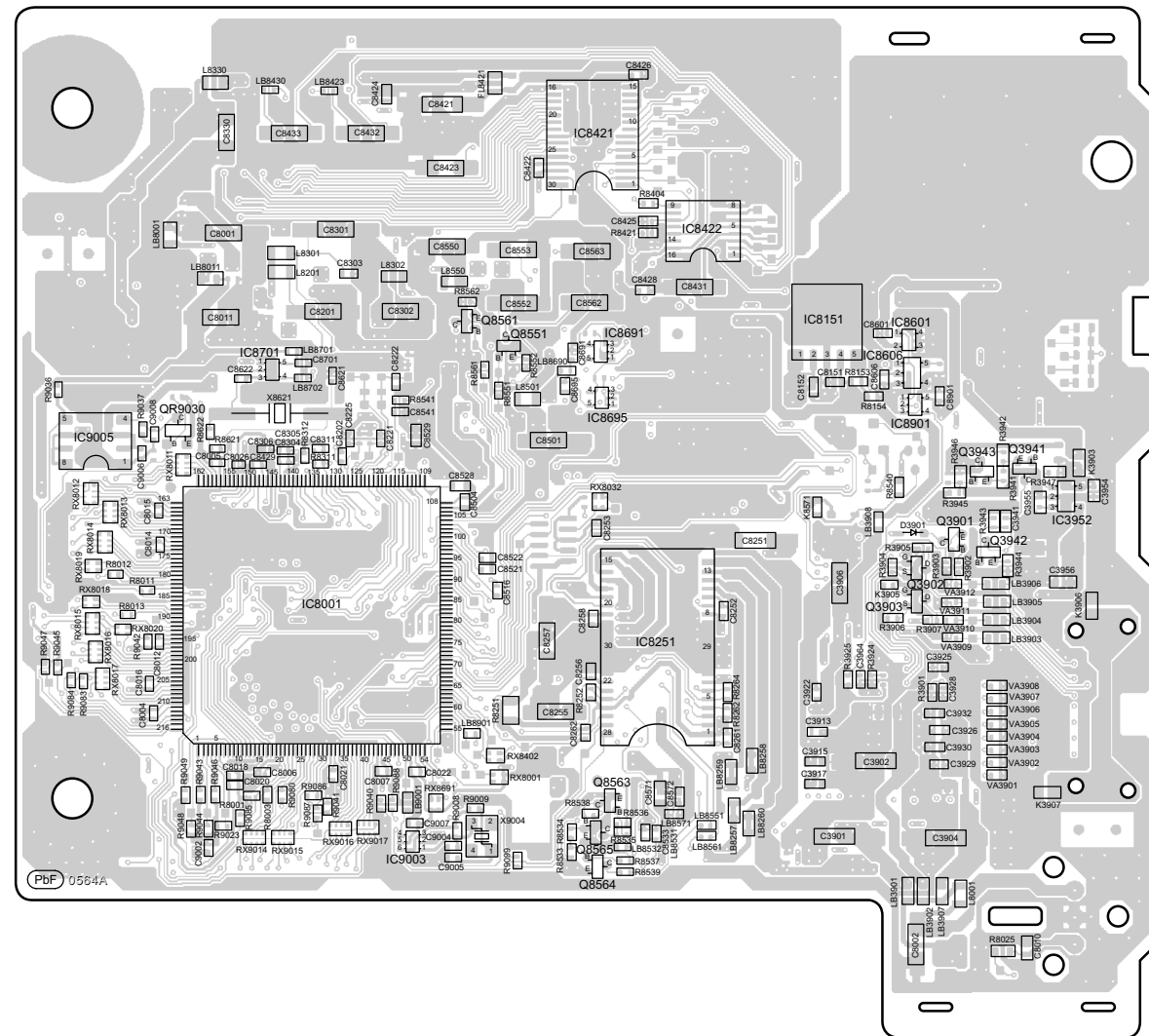


20 Printed Circuit Board

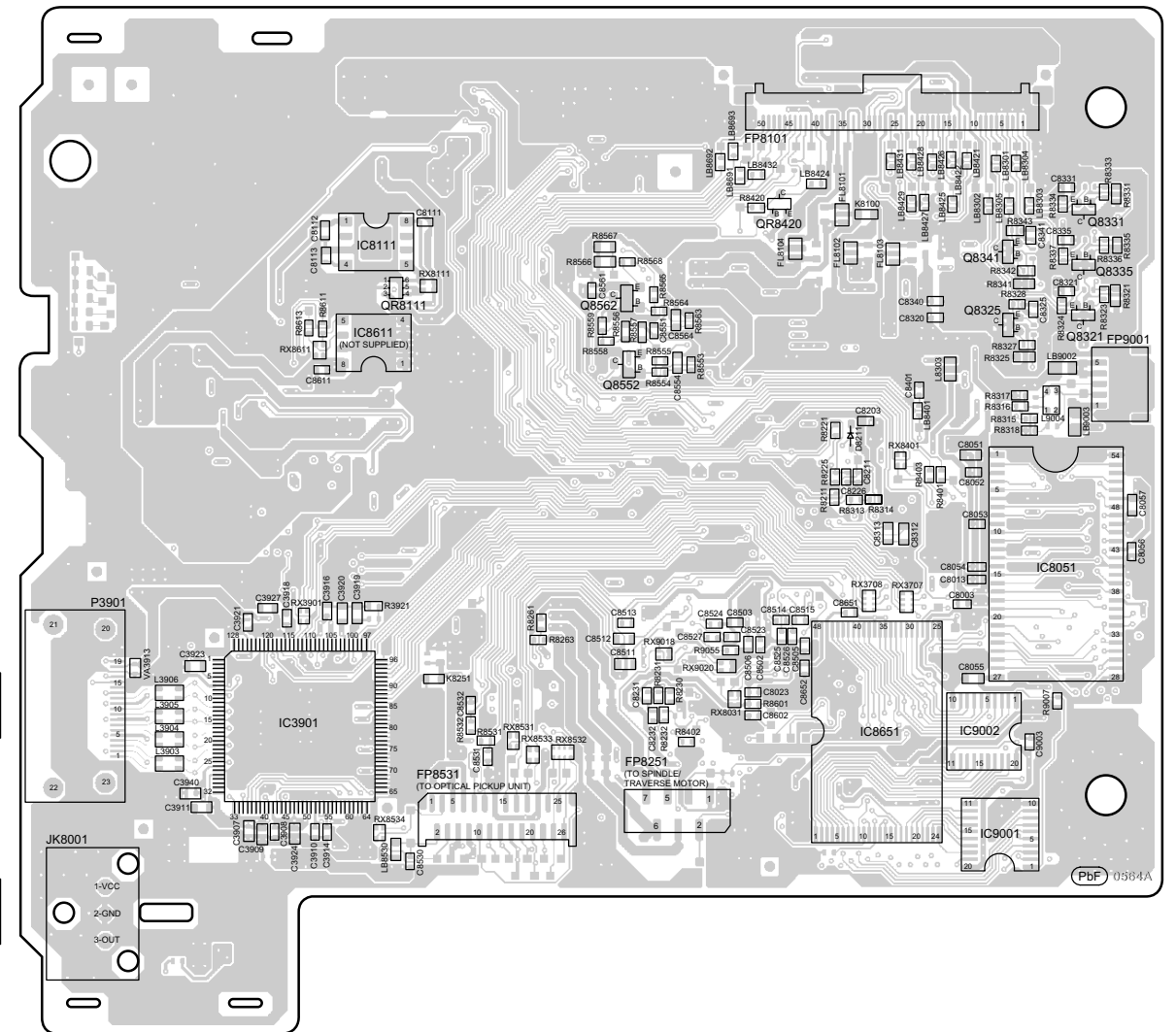
20.1. DVD Module P.C.B.

A DVD MODULE P.C.B. (REPX0620A)

H
G
F
E
D
C
B
A

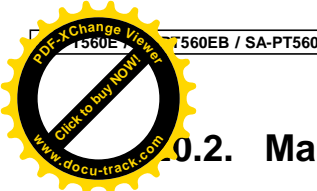


(SIDE A)



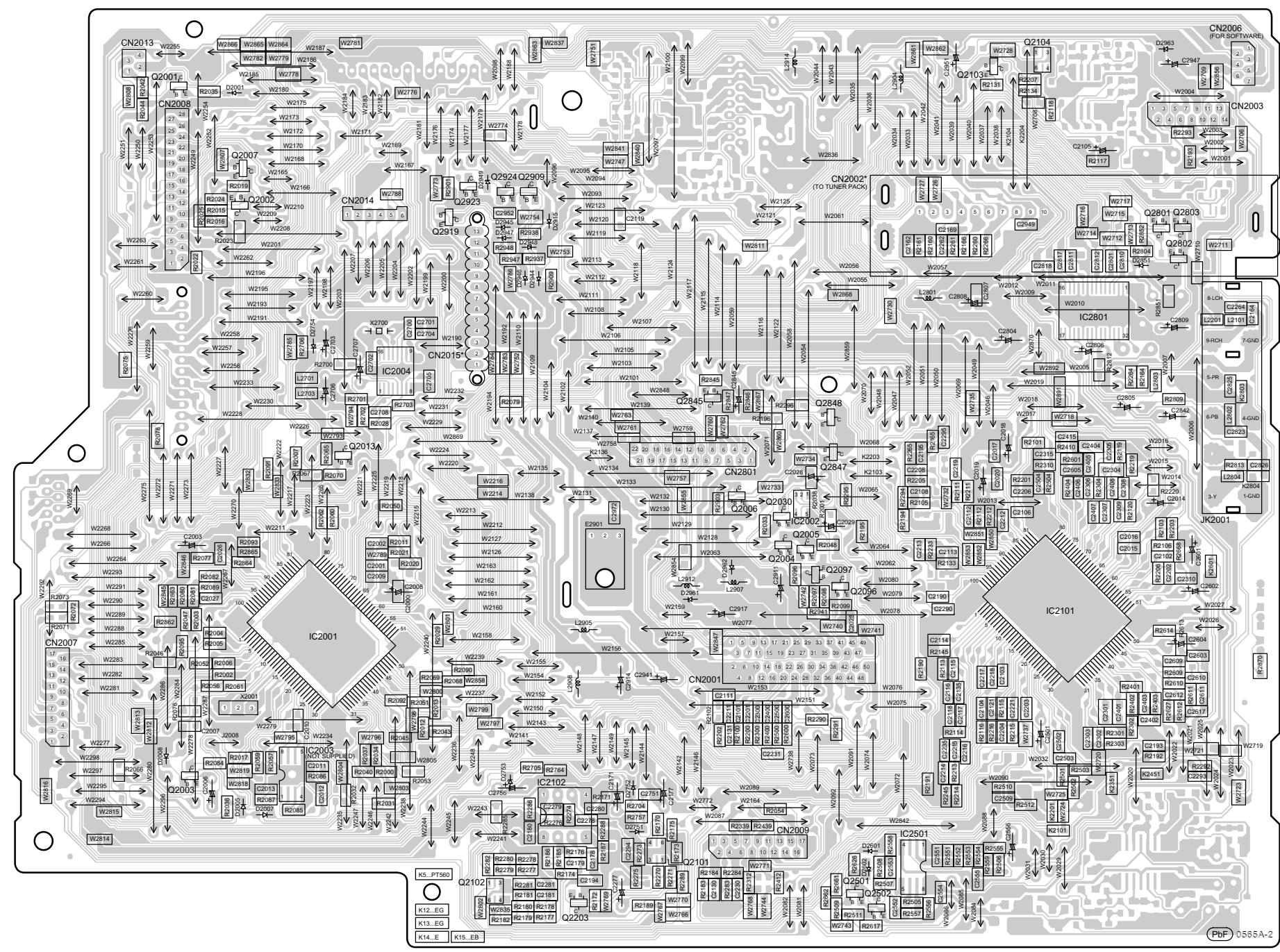
(SIDE B)

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



0.2. Main P.C.B.

B MAIN P.C.B. (REPX0627A...EG)
(REPX0627B...EB)
(REPX0627C...E)



AUX

COMPONENT VIDEO OUT

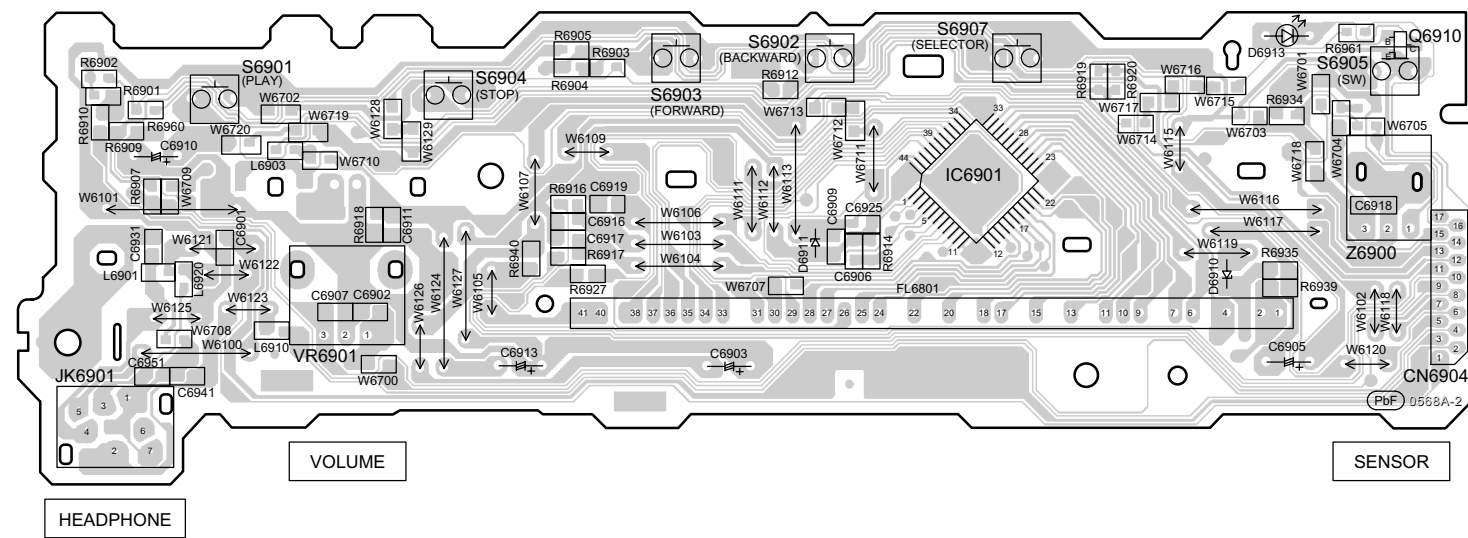
* FOR INDICATION ONLY

SA-PT560E/EB/EG
MAIN P.C.B.

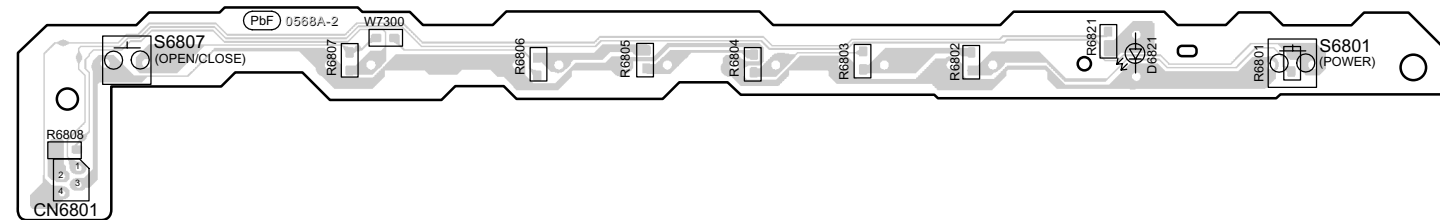
20.3. Panel, Power Button, USB, Power Supply & AC Inlet P.C.B.

H
G
F
E
D
C
B
A

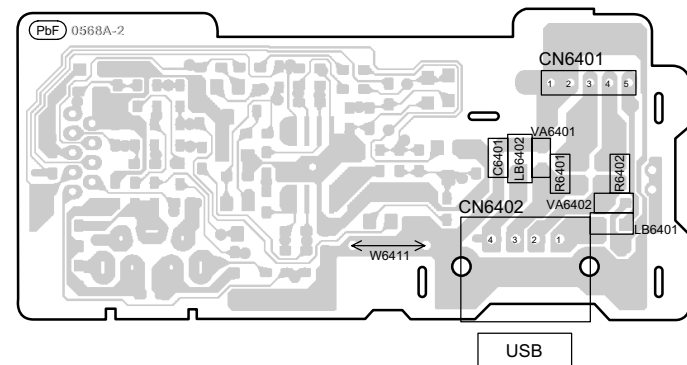
C PANEL P.C.B. (REPX0655A)



D POWER BUTTON P.C.B. (REPX0655A)

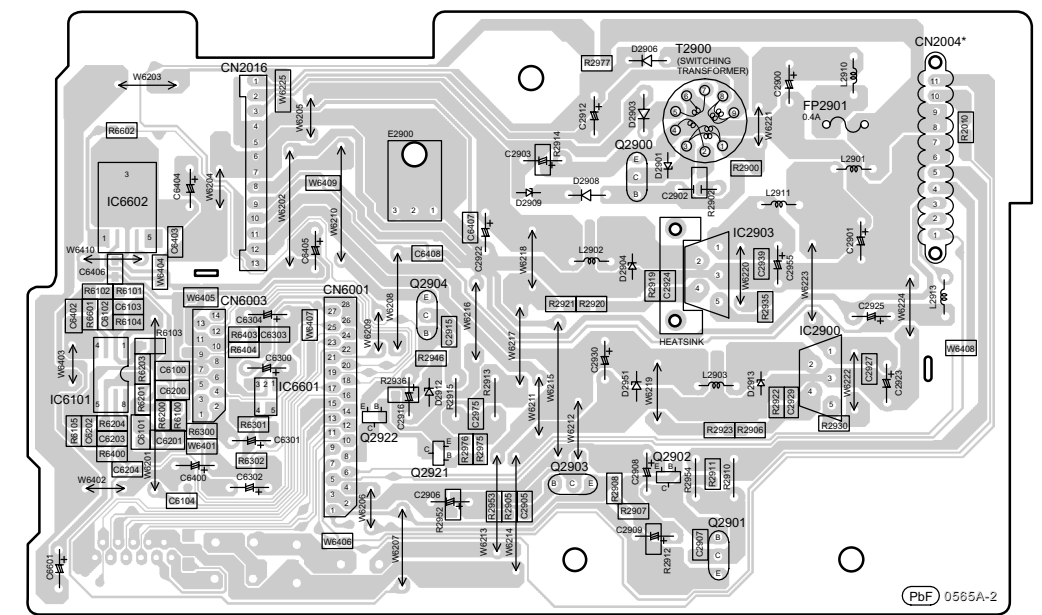


E USB P.C.B. (REPX0655A)

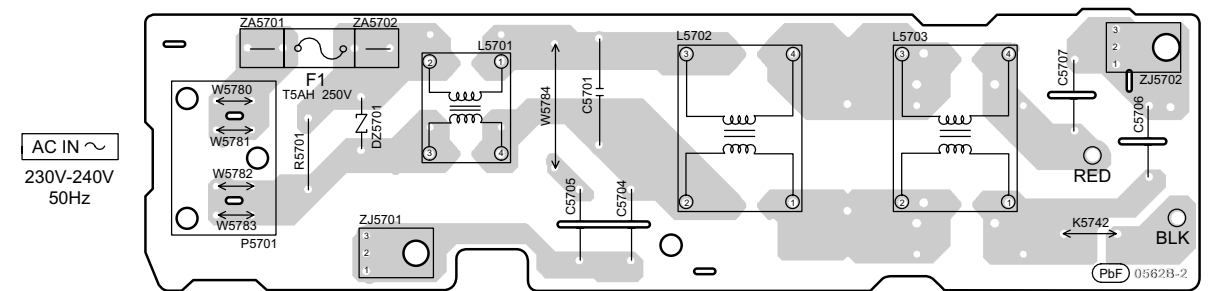


* FOR INDICATION ONLY

G POWER SUPPLY P.C.B. (REPX0627A...EG)
(REPX0627B...EB)
(REPX0627C...E)

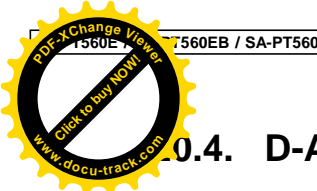


I AC INLET P.C.B. (REPX0622B)



SA-PT560E/EB/EG
PANEL/POWER BUTTON/USB/POWER SUPPLY/AC INLET P.C.B.

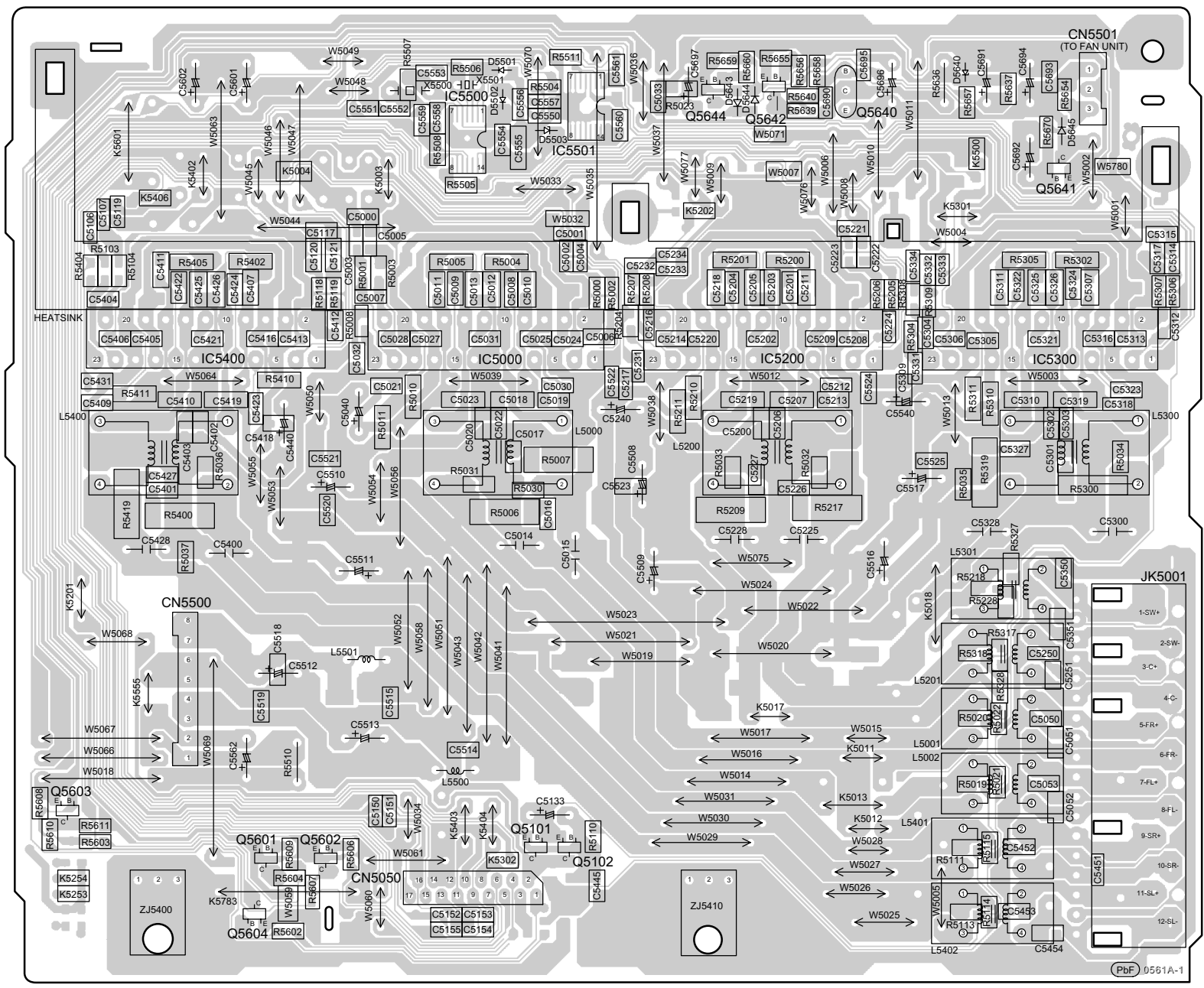
1 2 3 4 5 6 7 8 9 10 11 12 13



0.4. D-Amp P.C.B.

F D-AMP P.C.B. (REPX0621D)

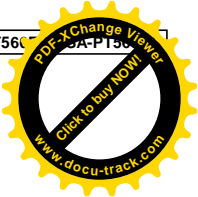
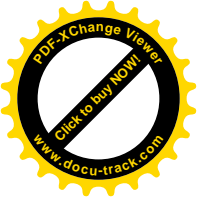
H
G
F
E
D
C
B
A



- SUBWOOFER
- CENTER SPEAKER
- FRONT SPEAKERS
- SURROUND SPEAKERS

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

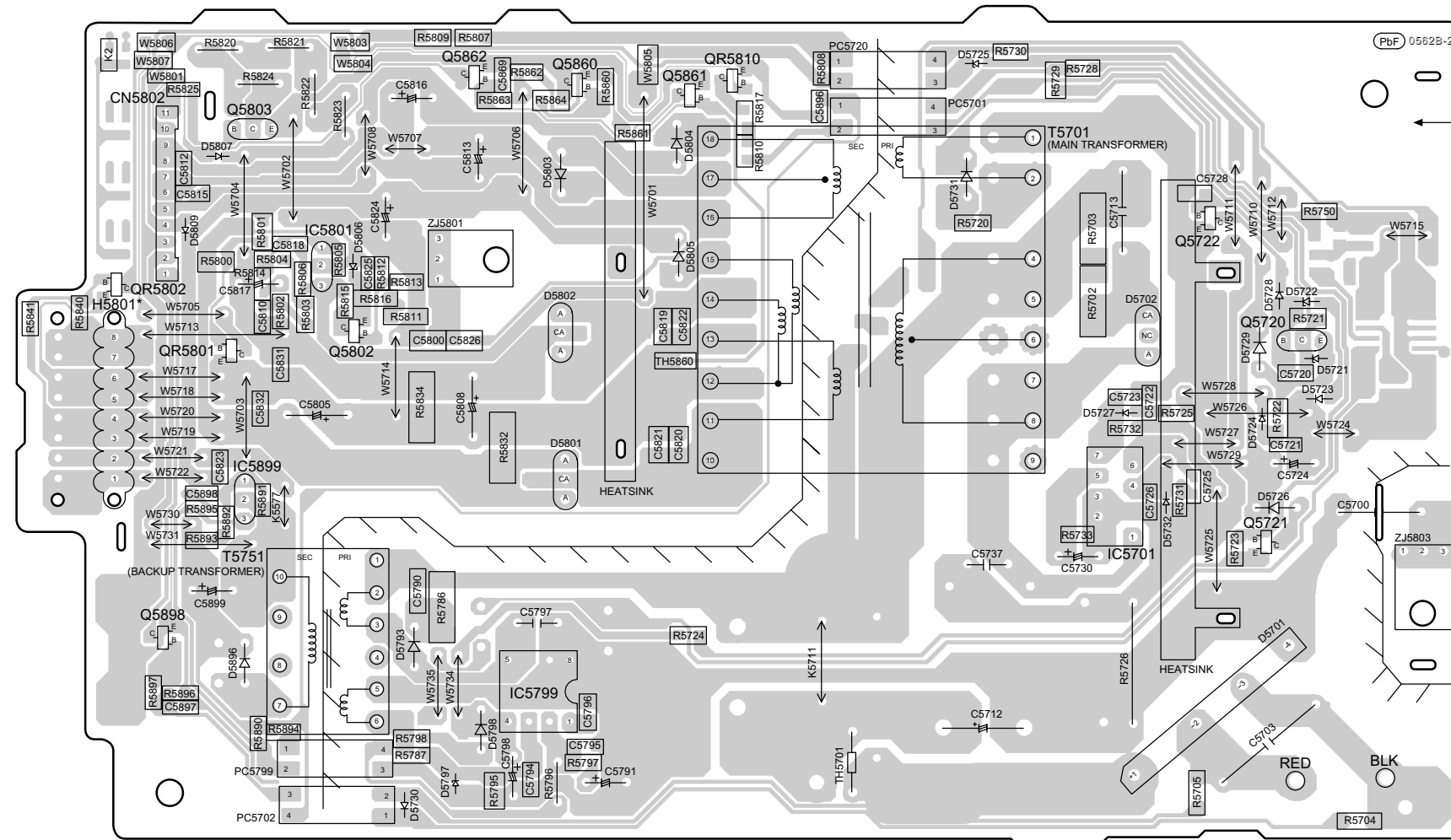
SA-PT560E/EB/EG
D-AMP P.C.B.



20.5. SMPS P.C.B.

H SMPS P.C.B. (REPX0622B)

H
G
F
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CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B.

* FOR INDICATION ONLY

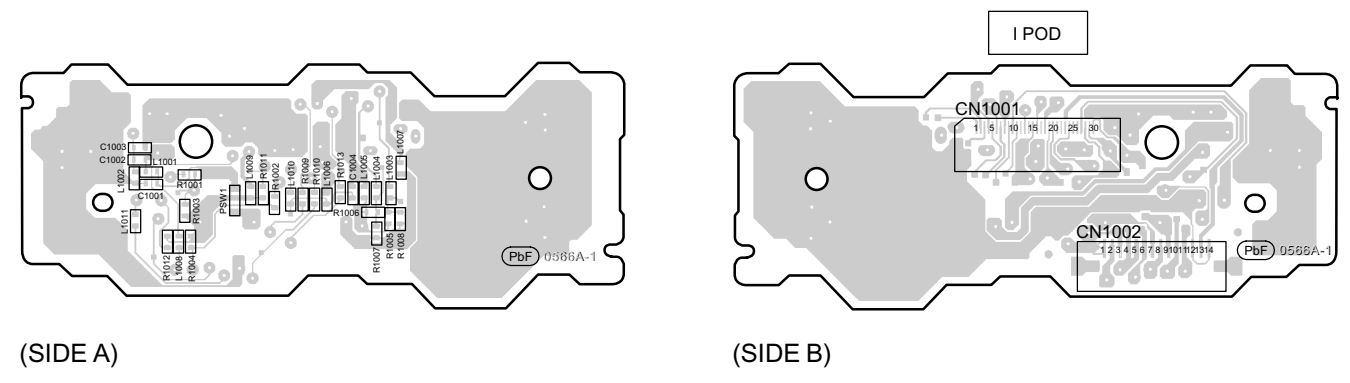
SA-PT560E/EB/EG
SMPS P.C.B.

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

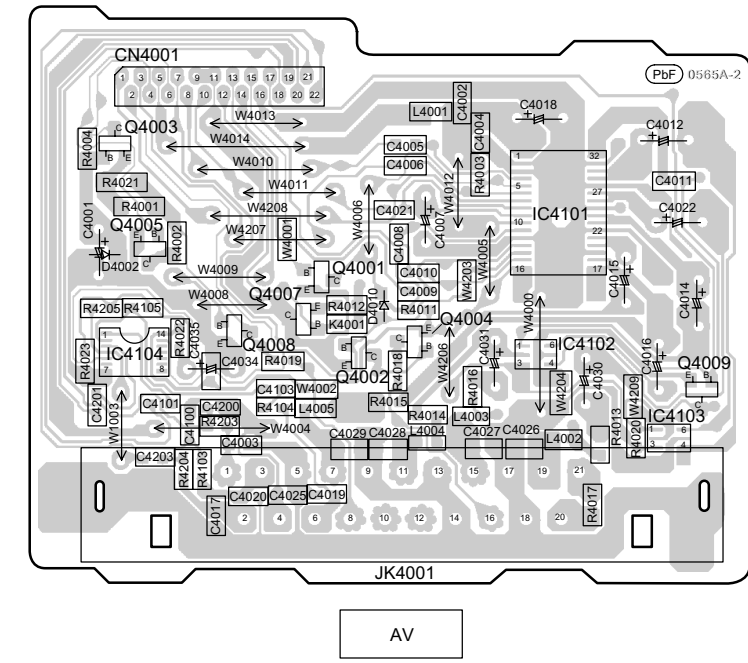
0.6. Ipod Cradle, Scart, Coprocessor & Wireless Adapter P.C.B.

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

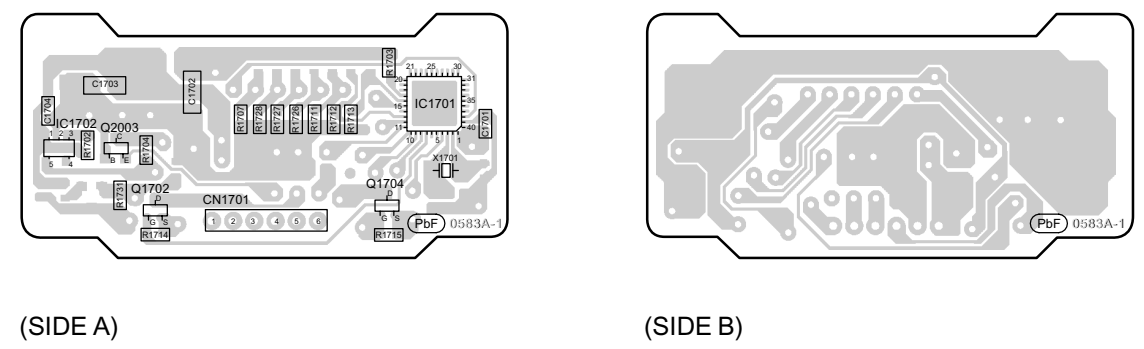
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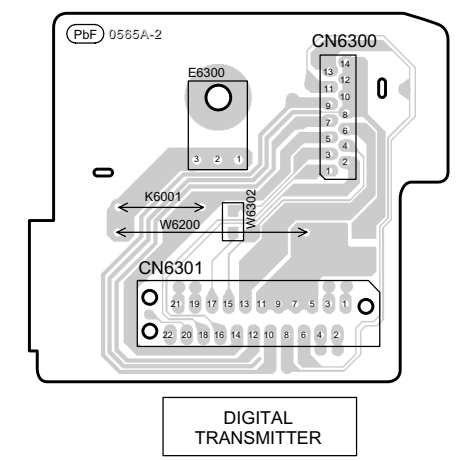
L SCART P.C.B. (REPX0627A...EG)
(REPX0627B...EB)
(REPX0627C...E)



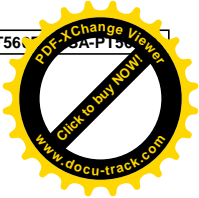
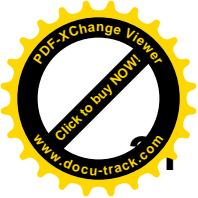
K COPROCESSOR P.C.B. (REPX0657B)



M WIRELESS ADAPTER P.C.B. (REPX0627A...EG)
(REPX0627B...EB)
(REPX0627C...E)



SA-PT560E/EB/EG
IPOD CRADLE/COPROCESSOR/SCART/WIRELESS ADAPTER P.C.B.

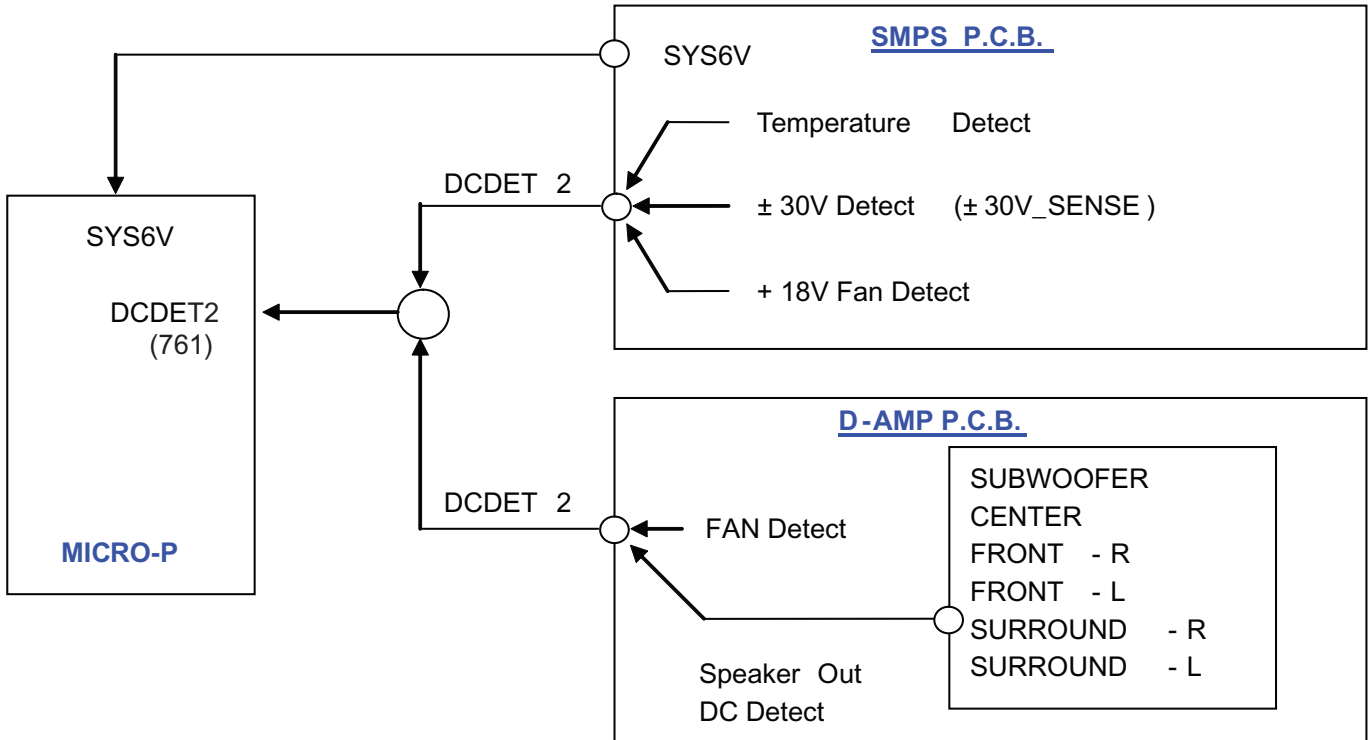


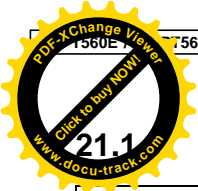
Basic Troubleshooting Guide

21.1. Troubleshooting Guide for F61 and/or F76

This section illustrates the checking procedures when upon detecting the error of "F61" and/or "F76" after power up of the unit. It is for purpose of troubleshooting and checking in SMPS, D-Amp & Power Supply P.C.B.

21.1.1. Block Diagram

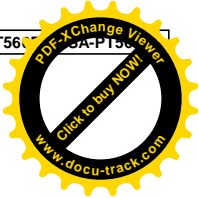
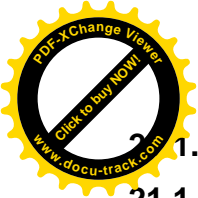




Troubleshooting Guide



Symptom	Checking Items	Repair Items	Remarks
FL display blinking with abnormal segment when power ON the set or "F61"	<p>Check the soldering of the SMPS P. C.B.</p> <ul style="list-style-type: none"> Is there any solder crack at area (Q5860, Q5861, Q5862, TH5860, QR5801) Check all the supply line $\pm 30V$ Is there any solderability at area of feedback circuit Check feedback circuit (IC5801, Q5802, D5806, PC5720, D5725) 	<p>Touch-up the solder crack area/ Change the defective parts.</p> <ul style="list-style-type: none"> Q5860, Q5861, Q5862, TH5860 (Temperature Detect) QR5801 & QR5802 ($\pm 30V$ Detect) Touch-up the necessary areas IC5801, D5806, PC5720, D5725 	<p>SMPS P. C.B.</p> <p>Refer to Fig. 1</p>
First Power ON Display immediate show "F61".	<p>Check Speaker output by using multi-meter,</p> <ul style="list-style-type: none"> If there is a DC Voltage around $\pm 30V$ Check Output IC (Pin 10 & 14) which have DC Voltage at Speaker output short to $\pm V_{dd}/V_{ss}$ If shorted that means D-Amp damage already. 	<p>Change the defective parts.</p> <p>D-AMP IC: IC5000/IC5200/IC5300/IC5400 P/N = C1BA00000487</p> <p>For Configuration Refer to Table 1</p>	<p>D-AMP P. C.B.</p> <p>Refer to Fig. 2</p>
Power ON for a while then only trigger "F61". (Symptom always happen)	<p>Check the fan connection & feedback loop:</p> <ul style="list-style-type: none"> If the fan not proper connected, "F61" will trigger when the volume increase. If the fan is not working, check for fan circuit. <p>Check the soldering of the SMPS P. C.B.</p> <ul style="list-style-type: none"> Is there any solder crack at area (Q5860, Q5861, Q5862, TH5860, QR5801) Check all the supply line $\pm 30V$ 	<p>Re-connect the Fan to CN5501</p> <p>Fan circuit: Q5640, Q5641, Q5642, Q5644</p> <p>Touch-up the solder crack area/ Change the defective parts.</p> <ul style="list-style-type: none"> Q5860, Q5861, Q5862, TH5860 (Temperature Detect) QR5801 & QR5802 ($\pm 30V$ Detect) <p>Feedback Circuit: IC5801, PC5720, D5725</p>	<p>D-AMP P. C.B.</p> <p>Refer to Fig. 3</p>
Power ON for a while and then trigger "F76"	<p>Check all supply voltages as follows:</p> <p>Step 1: Check for supply voltages from SMPS P. C.B to Power Supply P. C.B at pin 8 & 9 of CN2004. If there are supply voltages, proceed to Step 2. If no voltages detected, check wire connection and circuitry connection from SMPS P. C.B.</p> <p>Step 2: Check if there is supply voltages for $-V_p$, F+ & F- at CN2016</p> <ul style="list-style-type: none"> If there is supply voltages of +5.3V, +2.5V (For DVD), +6V (SYS6V), +9V & +18V at CN2016 If there is supply voltages of $\pm 7V$ at CN6001 	<p>Check and change the possible defective parts.</p> <ul style="list-style-type: none"> FP2901 (Fuse Protector), T2900, D2901, D2906, D2908, D2909 IC2903 (DC-DC Converter IC) & related regulator circuit components IC2900 (DC-DC Converter IC) & related regulator circuit components 	<p>Power Supply P. C.B</p> <p>Refer to Fig. 4</p>



1.3. Part Location

21.1.3.1. SMPS P.C.B.

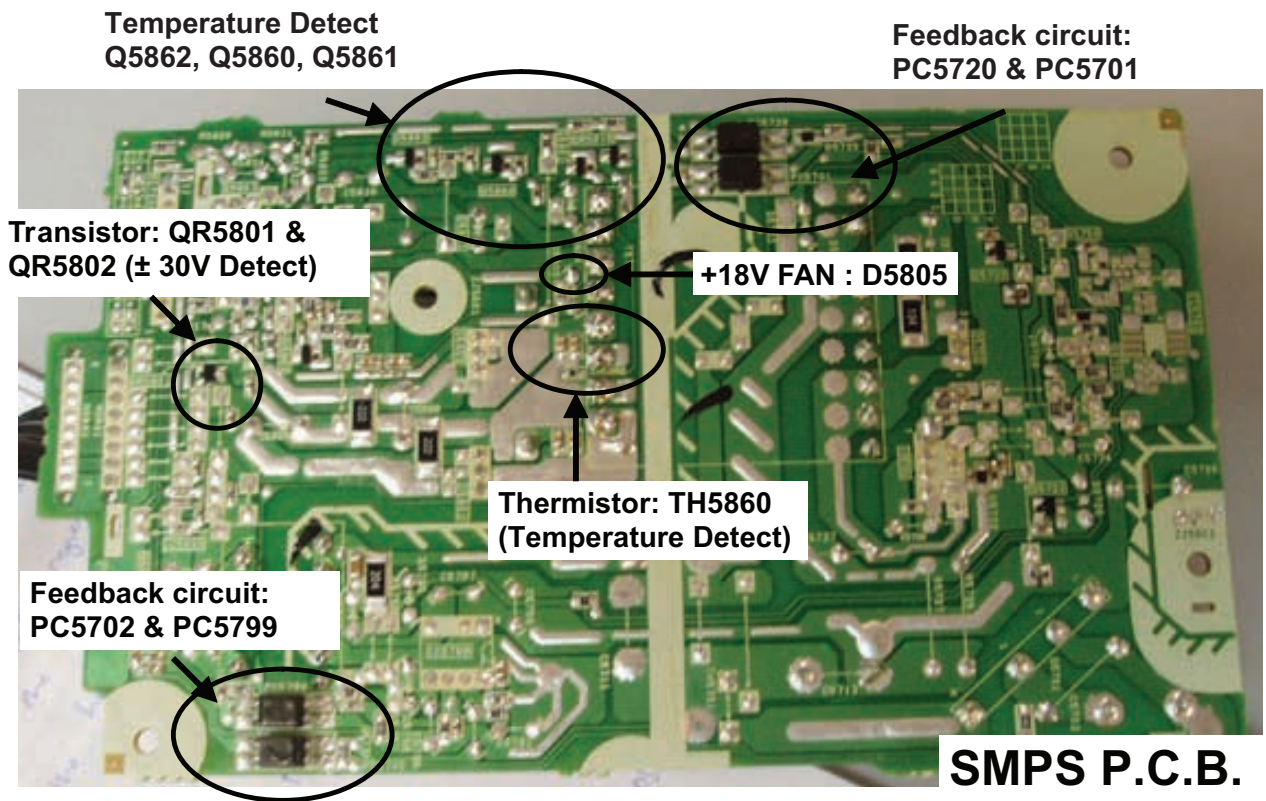
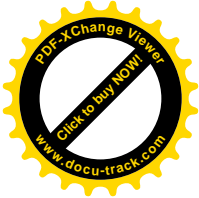
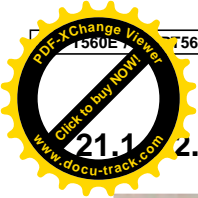


Fig. 1 SMPS P.C.B.



2. D-Amp P.C.B.

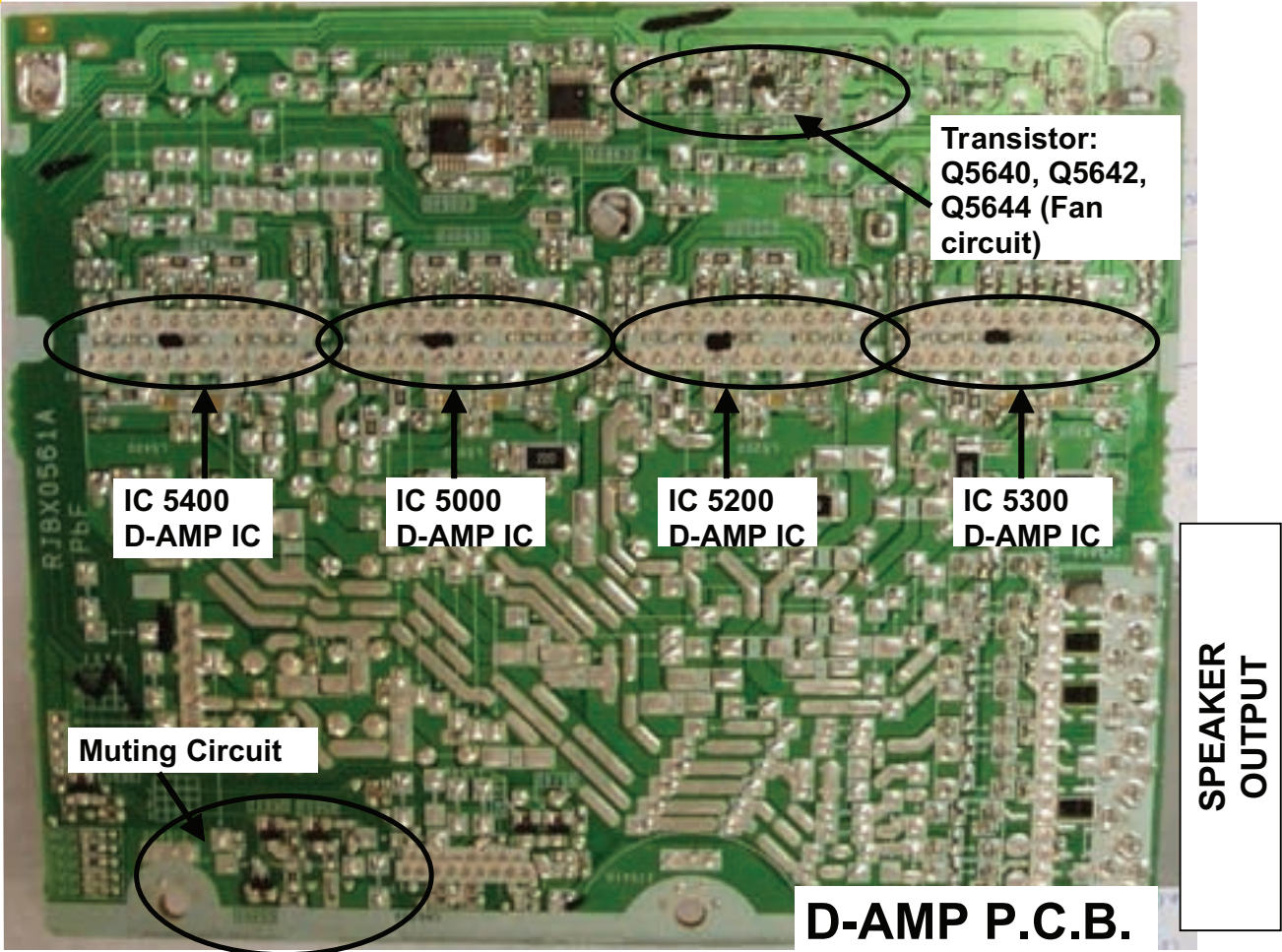


Fig. 2 D-Amp P.C.B

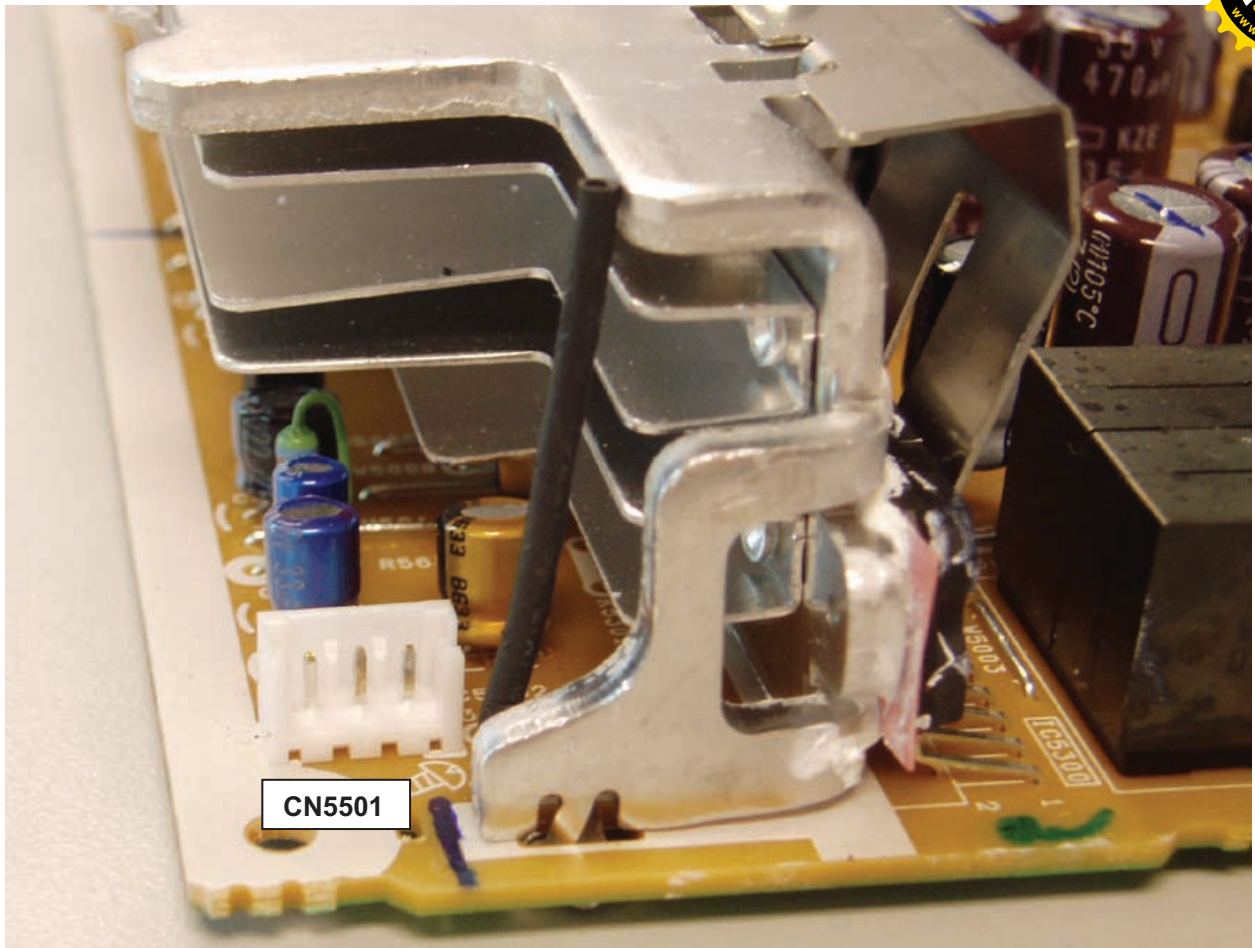


Fig. 3 Fan Connector

3. Power Supply P.C.B.

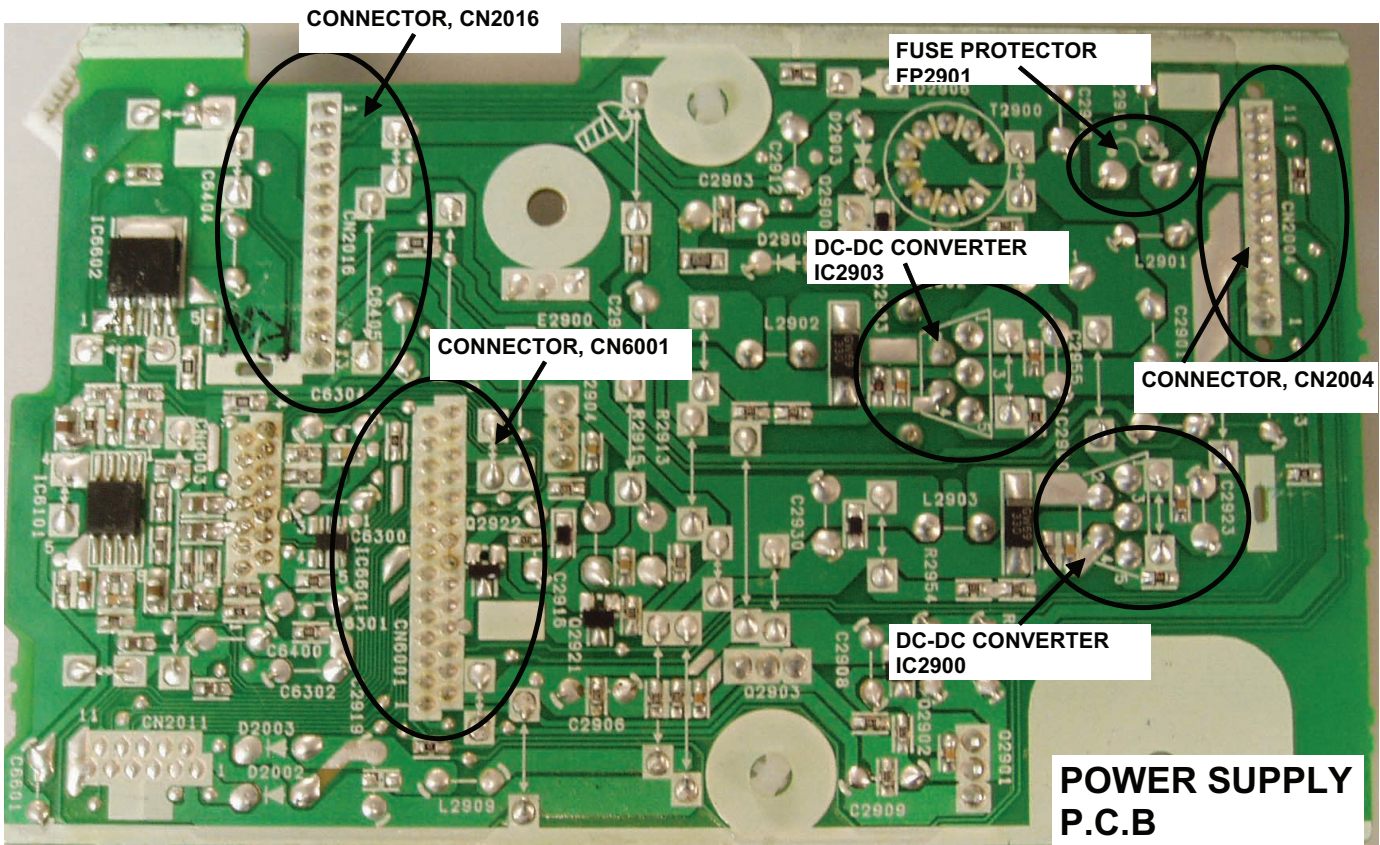
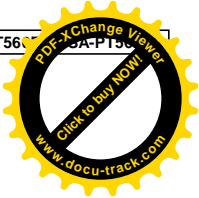
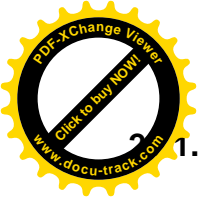


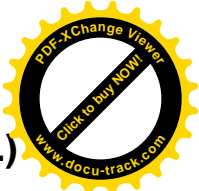
Fig. 4 Power Supply P.C.B.



1.3.4. D-Amp IC Configuration

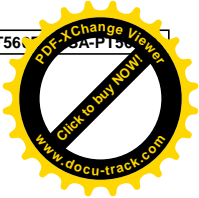
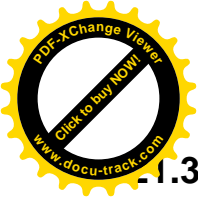
		PT560E/EB/EG
IC5300	Pin (10)	Sub-Woofer +
	Pin (14)	Sub-Woofer -
IC5200	Pin (10)	Center +
	Pin (14)	Center -
IC5000	Pin (10)	Front Right
	Pin (14)	Front Left
IC5400	Pin (10)	Surround Right
	Pin (14)	Surround Left

Table 1



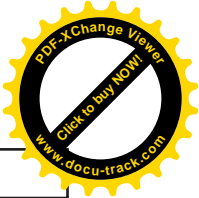
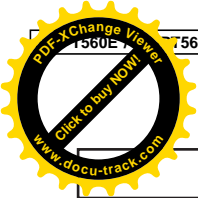
Basic Troubleshooting Guide for Traverse Unit (DVD Module P.C.B.)

Problems	Checking Points	Checking components
1) Distorted picture or abnormal sound is heard during the initialization	a) Check SDRAM address, data bus, CLK and other control signals waveform	IC8051
	b) Check video signals (Y,C)	LB8301, R8321, R8323, LB8302, R8325, R8327
	c) Check audio DAC circuitry * Compare the above with OK condition DVD Module P.C.B	IC8421 (Pin 9 to 11 & 17 to 22) LB8425, LB8426, LB8427, LB8428, LB8429, LB8431 *Check for solder short and/or component missing/damaged
2) No TOC/Long TOC	a) Check motor driver circuitry (+5V)	IC8251 Pin 8, 21
	b) Check laser drive circuitry (Voltages & current)	Q8551, Q8552 (For DVD), Q8561, Q8562 (For CD)
	c) Check LSI IC connection to motor drive circuitry * Compare the above with OK condition DVD Module P.C.B.	IC8001 Pin 66, 67 IC8251 Pin 15 to 16 * Check for solder short and/or component missing/damaged
3) Disc not spinning 4) Traverse not moving 5) Traverse and spindle abnormal movement	a) Check connection from DVD Module to Traverse unit	FP8251
	b) Check motor driver circuitry on the voltages and control signals * Compare the above with OK condition DVD Module P.C.B.	IC8251 * Check for solder short and/or component damaged
6) Cannot read the disc but spindle motor is spinning - Cannot read CD/DVD	a) Check laser drive circuitry (voltages and current) - Check CD Laser Drive - Check DVD Laser Drive * Check voltages and LD current and compare with OK condition DVD Module P.C.B.	Q8551, Q8552, LB8551 (For DVD Laser Drive current) Q8561, Q8562, LB8561 (For CD Laser Drive current)
7) Block Noise during play	a) Check SDRAM address and data bus signal	IC8051
8) Jitter out of specification	a) Check LD current b) Check OPU (Change to other unit and confirmed operating condition)	OPU Unit (Traverse unit), FPC connection (FP8531 & FP8251)

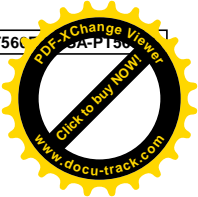
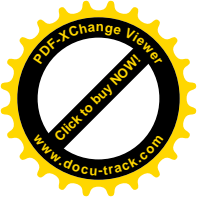


1.3. Basic Troubleshooting Guide for HDMI AV Output

Problems	Checking Points	Checking components
1) TV does not have any display. Set FL display shows U702/U703	1) Check setting of the set in Setup Menu whether the HDMI Video output is turned ON	* This year HDMI always ON. No need check Setup Menu. If no resolution selection GUI, then only check SETUP.
	2) +5V Supply to the TV	IC3952 (Pin 4)
	3) HDMI Connector Solderability condition	P3901
	4) HDMI Output TDMS signal lines (IC3901) <ul style="list-style-type: none"> - Data (TX0P/M => 14, 16) - Data (TX1P/M => 18, 20) - Data (TX2P/M => Pin 22, 24) - Clock (TXCP/TXCM => Pin 10, 12) 	L3905 L3904 L3903 L3906
	5) HDMI Transmitter communication lines to TV <ul style="list-style-type: none"> - Data, SDA (Pin 120, IC3901) - Clock, SCL (Pin 121, IC3901) 	LB3905, R3905, Q3902, R3904 LB3904, R3907, Q3903, R3906
	6) HDMI Transmitter communication from LSI (IC8001) (I2C_SCL/I2C_SDA signals)	RX3901
	7) Local Port Slave Address setting resistor at Pin 99 of HDMI Transmitter LSI IC (IC3901) for LPSA signal	R3921
	8) HDMI Transmitter LSI IC (IC3901) +3.3V Supply	LB3901, LB3902, IC3901 (Pin 9, 13, 17, 21, 25, 124)
	9) HDMI Transmitter LSI IC (IC3901) +1.2V Supply	IC3901 (Pin 5, 26, 42, 47, 55, 75, 85, 102, 109, 116, 123), LB3908, IC8151 (Pin 4), LB8001, IC8001 (Pin 20, 44, 83, 158, 187, 211)
	10) HDMI Up-Con +3.3V Supply	LB3901
	11) HDMI Pixel Clock Output from Up-Con to HDMI Transmitter (VCLK)	LB8901
	12) Up-Con IC I2C Data and Clock Line	RX3901

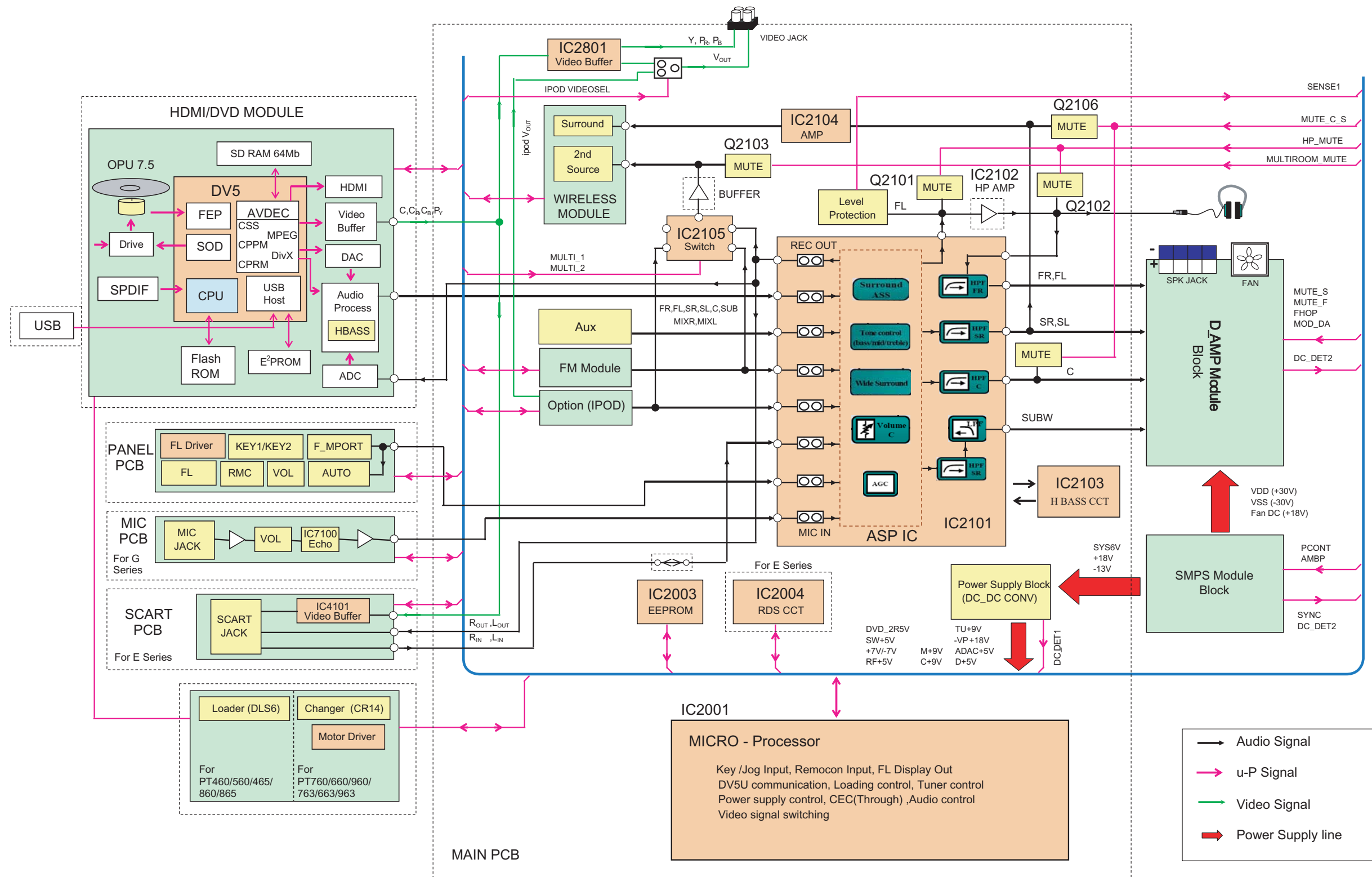


Problems	Checking Points	Checking components
1) TV does not have any display. Set FL display shows U702/U703	13) Hot-Plug Signal	LB3906, R3902, R3903, Q3901, D3901
	14) TDMS Output swing amplitude control resistor	R3901
	15) Host Interface External Input Clock from LSI (IC8001) to Up-Con IC (IC3901) - OSC27M	LB8702
	16) Video Data Lines from LSI (IC8001) to Up-Con (IC3901)	RX3707, RX3708, IC3901 (Pin 92 to 95, Pin 87 to 90)
2) When switching the video output mode from 480P to 720p/1080i, TV display becomes blank	1) Supply for Up-Con (IC3901) - Pin 9,124 2) GND for Up-Con - Pin 7,125 3) Check for capacitor short to GND	LB3902 C3902, C3928, C3925
3) Color Problem. TV Screen is White/Blue/Purple	1) Check digital video data line from LSI(IC8001) to Up-Converter (IC3901), VOUT0-VOUT7.	RX3707, RX3708
4) HDMI got no audio output	1) Audio data lines 2) Check setting of the set in Setup Menu whether the HDMI Audio output is turned On	R8402, RX8402 * Check for solder short and/or component missing/damaged as well as signal condition.



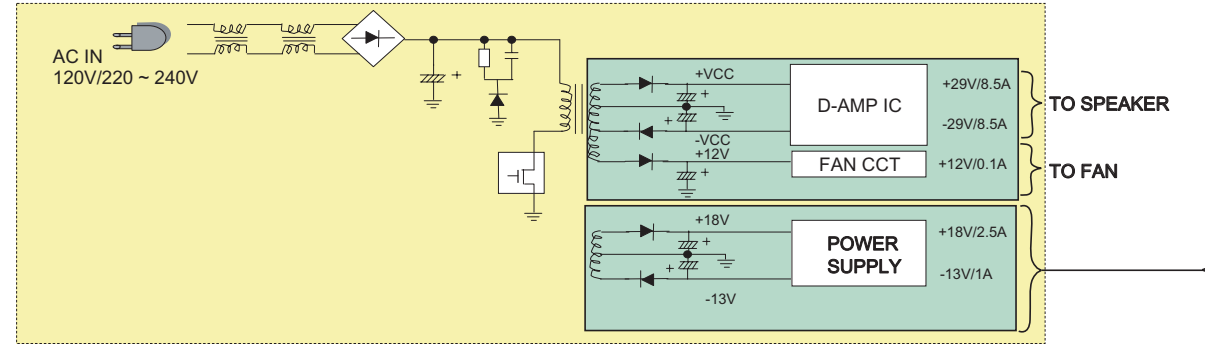
22 Overall Simplified Block for PT560

Overall Block Diagram

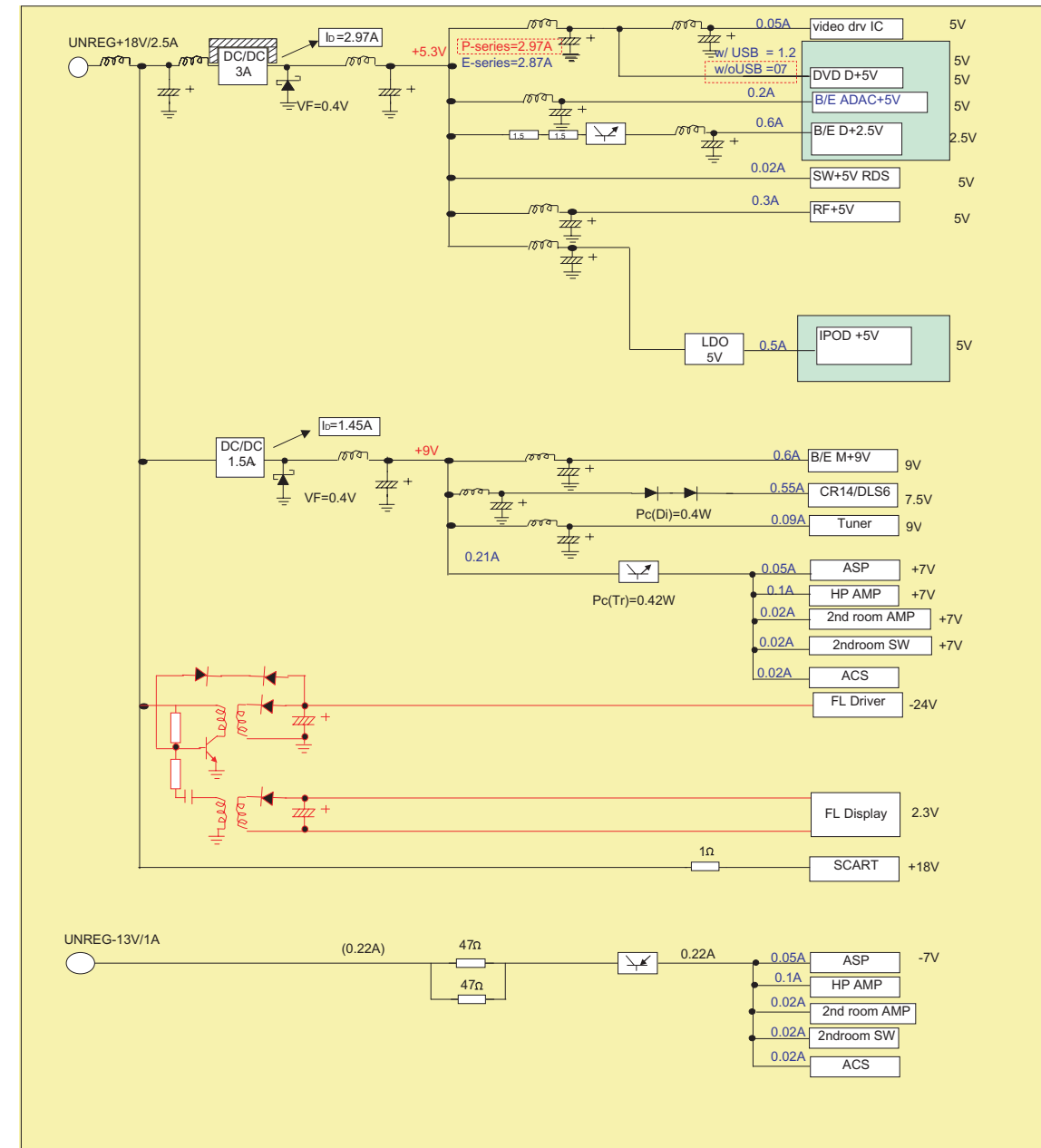


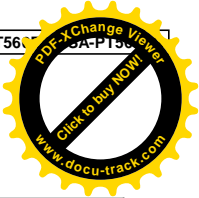
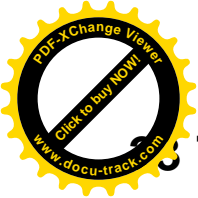
2.1. SMPS Module & Power Supply Block

SMPS MODULE BLOCK



POWER SUPPLY BLOCK





Terminal Function of ICs

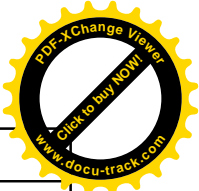
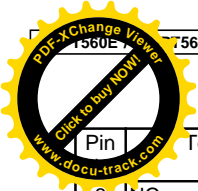
23.1. IC2001 (RFKWPT460E): IC System Control

Pin No.	Terminal Name	I/O	Funtion
1	IPHONE_CPREADY	I	IPhone Detect Control Signal
2	TRAY_CW_H	O	Tray Control Signal 1
3	TRAY_CCW_L	O	Tray Control Signal 2
4	OPEN SW /UNLOAD_SW	I	Open/Unload Signal
5	FX_DO	O	Wireless Data Output Signal
6	MIC_LVL1	-	No Connection
7	FX_DI	I	Wireless Data input Signal
8	BYTE	I	VSS (GND)
9	CNVSS	I	VSS (GND)
10	MIC_SW	-	No Connection
11	RDS_EN	I	RDS Enable (H: Enable L: Disable)
12	RESET	I	System Reset Input
13	XOUT	-	Main Clock Output (10MHz)
14	VSS	-	GND (0V)
15	XIN	-	Main Clock Input (10MHz)
16	VCC	-	Power Supply (+5V)
17	NMI	I	Connect to VCC External Interrupt I/P
18	RMT	I	Remote Control Input
19	SYNC	I	AC Failure Detect Input
20	IPHONE_RST	O	IPhone Reset Output
21	IPOD_EN	O	IPhone Enable Output
22	SCARTTV	I	Scart TV Selector Enable Signal Input
23	EDA	O	Data Signal for EEPROM IC
24	ECK	O	Clock Signal for EEPROM IC
25	ECS	O	Latch Signal for EEPROM IC
26	INNER SWITCH	O	Inner Switch
27	MIC_LVL2	-	No Connection
28	DVD_CLK	O	Clock Signal for DVD
29	DVD_STAT	I	Status Signal for DVD
30	DVD_CMD	O	Command Signal for DVD
31	UART_TX	O	UART Transmitter Output Signal
32	UART_RX	I	UART Receiver Input Signal
33	FX_CLK	O	Wireless Output Clock
34	FX_DET1	I	Wireless Detect Signal
35	VMUTE2	O	Video Muting Control Signal
36	MIC_VOLUP	-	No Connection
37	TUN_DO	O	Tuner Stereo Detect Signal
38	TUN_DI	O	Tuner I2C Data Signal
39	TUN_CLK	O	Tuner I2C Clock Output Signal
40	PCONT	O	System Power Control
41	EPM	I	For Flash Programming
42	DVD_MUTE	I	DVD Muting Control Signal
43	DC_DET1	I	DC Detect Signal 1
44	SCART_MUTE	O	Scart Muting Control Signal (Line-Out)
45	ACS_EN	I	Wide Sound Surround Enable Signal
46	VMUTE	O	Video Muting Control Signal
47	ASP_CLK	O	Clock Signal for ASP IC
48	ASP_DAT	O	Data Signal for ASP IC
49	TUN_SD	I	Tuner Station Detect Signal
50	MIC_VOLDOWN	-	No Connection
51	WIDE1	I	Wide1
52	HBASS SW	-	No Connection
53	AMBP	O	AM Beatproof
54	MULTI_1	-	No Connection
55	MULTI_2	-	No Connection

Pin No.	Terminal Name	I/O	Funtion
56	MIC_EN	I	MIC Enable Input Signal
57	IPOD_VIDEO_SEL	O	IPod Video Selector Signal
58	MULTIROOM_MUTE	O	Multi Room Muting Control Signal
59	ECHO_MUTE	O	Echo Muting Control Signal
60	IPOD_ACC	I	IPod Power Supply Control Signal
61	OPT_EN	I	Optical Enable Input Signal
62	VCC	-	Voltage Supply (+5V)
63	DC_DET2	I	DC Detect Signal 2
64	VSS	-	GND (0V)
65	YC_H	O	Video Mixing Signal
66	RDS_DAT	O	RDS Decoder Data Signal
67	HOP_DA	O	Frequency Hopping for Digital-Amp
68	MUTE_C_S	O	Muting Control for Center & Surround
69	MUTE_F_SW	O	Muting Control for Front & Subwoofer
70	RGB_H	O	Video Output Muting Signal
71	MOD_DA	O	Mode Control for D-Amp
72	VCOMP_MUTF	I	VIDEO COMPONENT MUTE
73	CEC_OUT	O	HDMI/CEC Output Control
74	ACS_MUTE	O	ACS Muting Control
75	CEC_IN	I	HDMI/CEC Input Control
76	JOG_A	I	Volume Jog Signal A
77	JOG_B	I	Volume Jog Signal B
78	HP_MUTE	O	Headphone Muting Control Signal
79	BATT_PCONT	O	Battery Power Control for IPOD
80	AV_MUTE	O	AV Muting
81	RDS_CLK	I	RDS Clock Signal
82	IPOD_DET	I	IPod Detect Signal
83	ECHO_LVL1	O	Echo Level Control 1
84	ECHO_LVL2	O	Echo Level Control 2
85	FLD_CLK	O	FL Driver Strobe Signal
86	FLD_STB	O	FL Driver Standby Signal
87	FLD_OUT	O	FL Driver Data Out
88	CENTER POP-UP	O	Control Signal
89	MD3	I	Model Code 3
90	MD2	I	Model Code 2
91	KEY2	I	Key 2 Line Input
92	ACS	I	Auto Calibration Signal
93	SENSE1	I	D-Amp Sense Input Signal 1
94	DES2	I	DVD Region Setting
95	DES1	I	Tuner Region Setting
96	AVSS	-	GND (0V)
97	KEY1	I	Key 1 Line Input
98	VREF	-	Voltage Supply (+5V)
99	AVCC	-	Voltage Supply (+5V)
100	NC	-	No Connection

23.2. IC1701 (MFI341S2095): IC Ipod Video

Pin No.	Terminal Name	I/O	Function
1	VCC	-	Supply Voltage, Positive Terminal
2	XIN	I	32.768 kHz Crystal Oscillator
3	XOUT	O	32.768 kHz External Clock Source
4	CLK_EN	I	CLOCK_OUT Enable (Active High)
5	NC	-	No Connection



Pin	Terminal Name	I/O	Function
6	NC	-	No Connection
7	I2C_SCL	I/O	I2C Clock
8	I2C_ADDR_0	I	I2C Clock Slave Address Selection
9	I2C_ADDR_1	I	I2C Clock Slave Address Selection
10	I2C_ADDR_2	I	I2C Clock Slave Address Selection
11	CP_READY	O	CP Ready to Receive Next Instruction (Active High)
12	MODE0	I	Operating Voltage Selection
13	MODE1	I	Communication Mode Selection
14	NC	-	No Connection
15	I2C_SDA	I/O	I2C Data
16	MODE2	I	Communication Mode Selection
17	ROSC	I	Connect via 100 kΩ 1% resistor to VCC
18	NC	-	No Connection
19	NC	-	No Connection
20	NC	-	No Connection
21	NC	-	No Connection
22	NC	-	No Connection
23	NC	-	No Connection
24	NC	-	No Connection
25	NC	-	No Connection
26	NC	-	No Connection
27	NC	-	No Connection
28	NC	-	No Connection
29	NC	-	No Connection
30	NC	-	No Connection
31	SYS_CLK_OUT	O	System Clock Output
32	NC	-	No Connection
33	NC	-	No Connection
34	NC	-	No Connection
35	NC	-	No Connection
36	NC	-	No Connection
37	NC	-	No Connection
38	nRESET	I	CP Reset (Active Low)
39	VSS	-	Supply Voltage, Negative Terminal
40	VCC	-	Supply Voltage, Positive Terminal

Pin No.	Terminal Name	I/O	Function
18	P14	O	Segment Output 14
19	P13	O	Segment Output 13
20	P12	O	Segment Output 12
21	P11	O	Segment Output 11
22	P10	O	Segment Output 10
23	P9	O	Segment Output 9
24	P8	O	Segment Output 8
25	P7	O	Segment Output 7
26	P6	O	Segment Output 6
27	P5	O	Segment Output 5
28	P4	O	Segment Output 4
29	P3	O	Segment Output 3
30	-VP	-	Voltage Supply
31	P2	O	Segment Output 2
32	P1	O	Segment Output 1
33	G1	O	Grid Segment Output 1
34	G2	O	Grid Segment Output 2
35	G3	O	Grid Segment Output 3
36	G4	O	Grid Segment Output 4
37	G5	O	Grid Segment Output5
38	G6	O	Grid Segment Output 6
39	G7	O	Grid Segment Output7
40	G8	O	Grid Segment Output 8
41	G9	O	Grid Segment Output 9
42	G10	O	Grid Segment Output 10
43	VCC	-	Voltage Supply (+5V)
44	GND	-	GND

23.3. IC6901(C0HBB000057): IC FL Driver

Pin No.	Terminal Name	I/O	Function
1	LED2	O	Led Drive Output
2	LED3	-	Led Drive Output
3	LED4	-	Led Drive Output
4	LED5	-	Led Drive Output
5	OSC	I	Oscillator Input
6	DOUT	-	Data Output
7	DIN	I	Data Input
8	CLK	I	Clock Input
9	STB	I	Serial Interface Strobe
10	K1	-	Key Data Input 1 (No Connection)
11	K2	-	Key Data Input 2 (No Connection)
12	GND	-	GND
13	VCC	-	Power Supply (+5V)
14	P18	O	Segment Output 18
15	P17	O	Segment Output 17
16	P16	O	Segment Output 16
17	P15	O	Segment Output 15