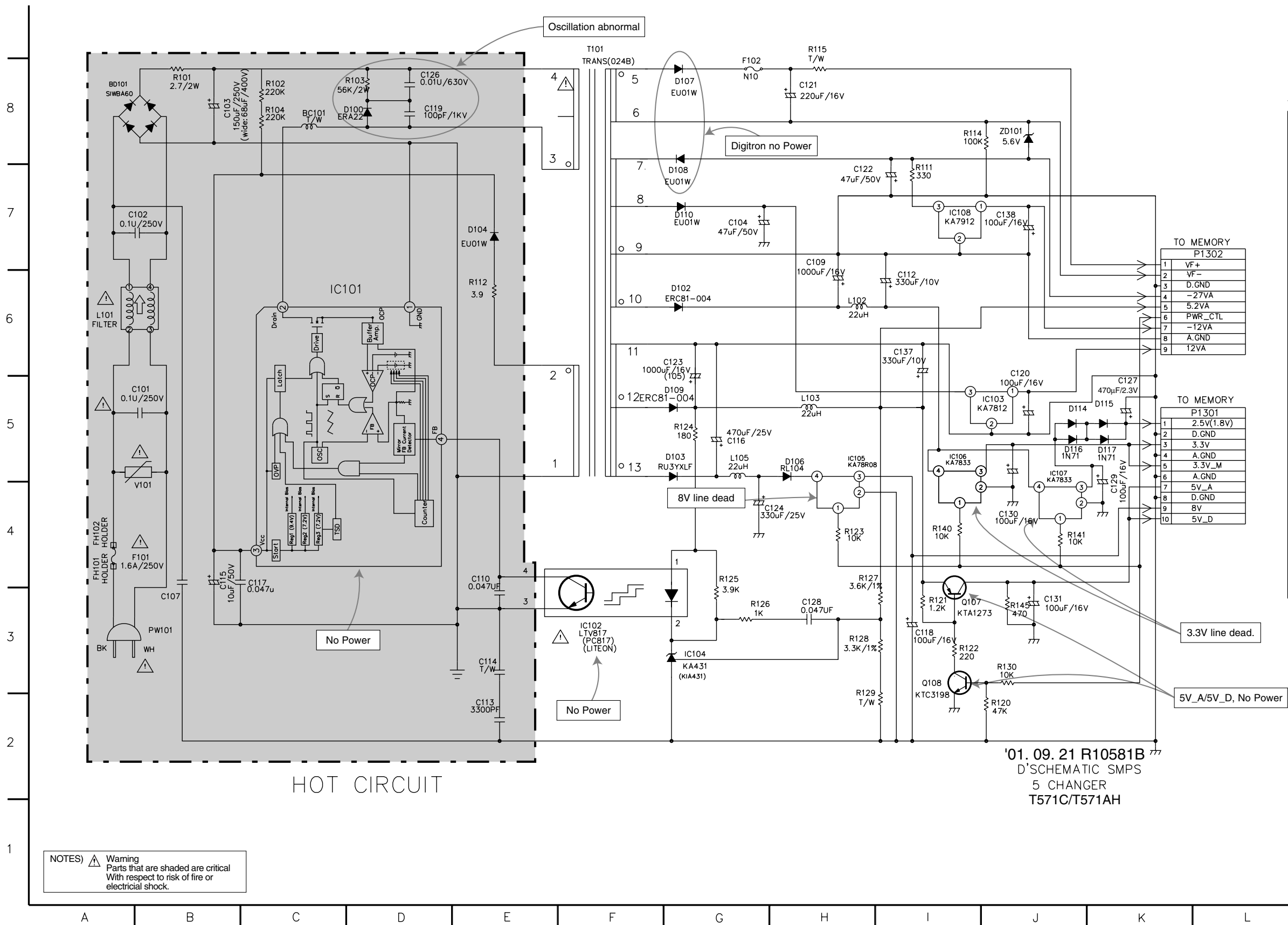


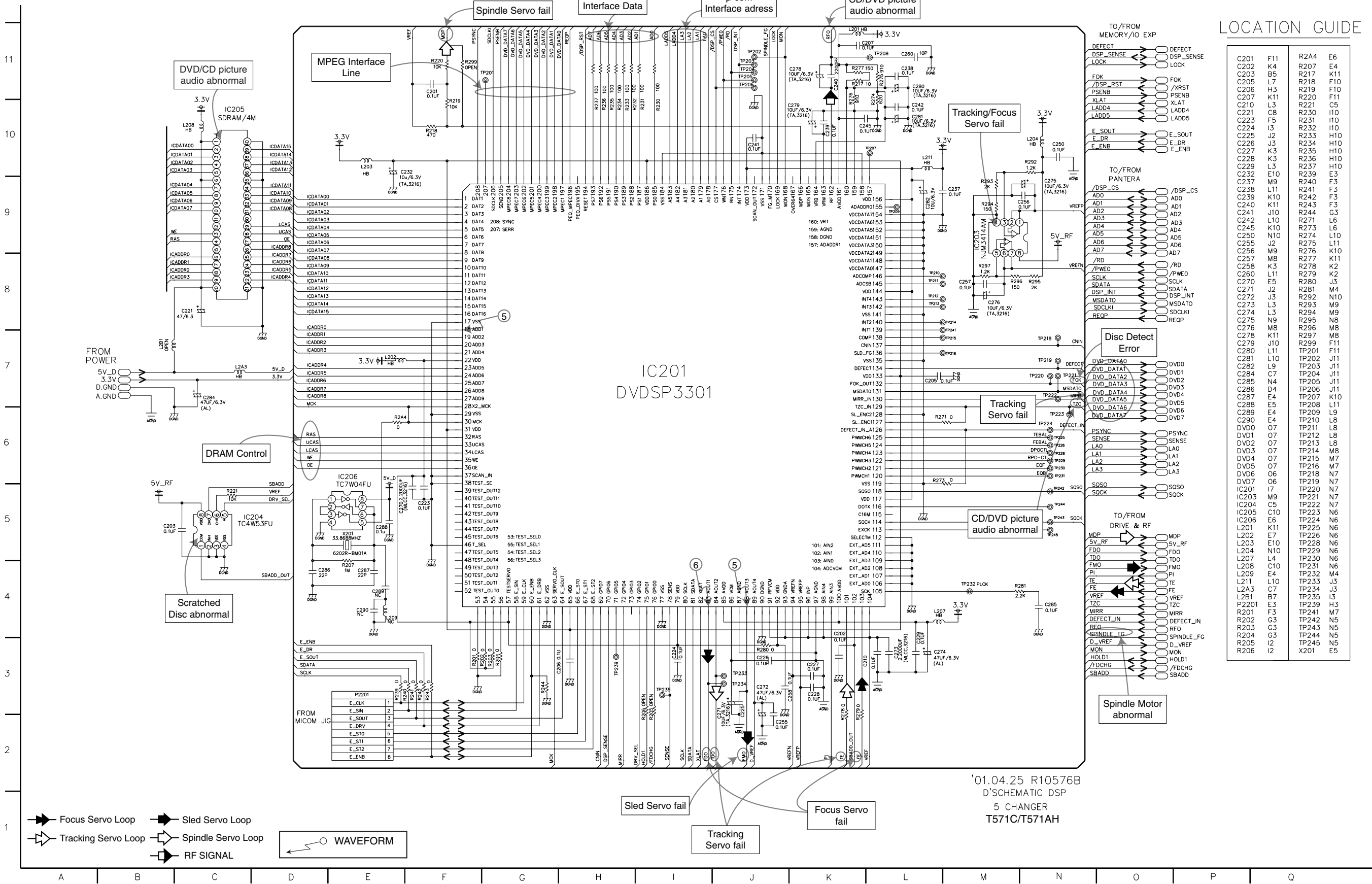
CIRCUIT DIAGRAM

1. POWER(SMPS) CIRCUIT DIAGRAM

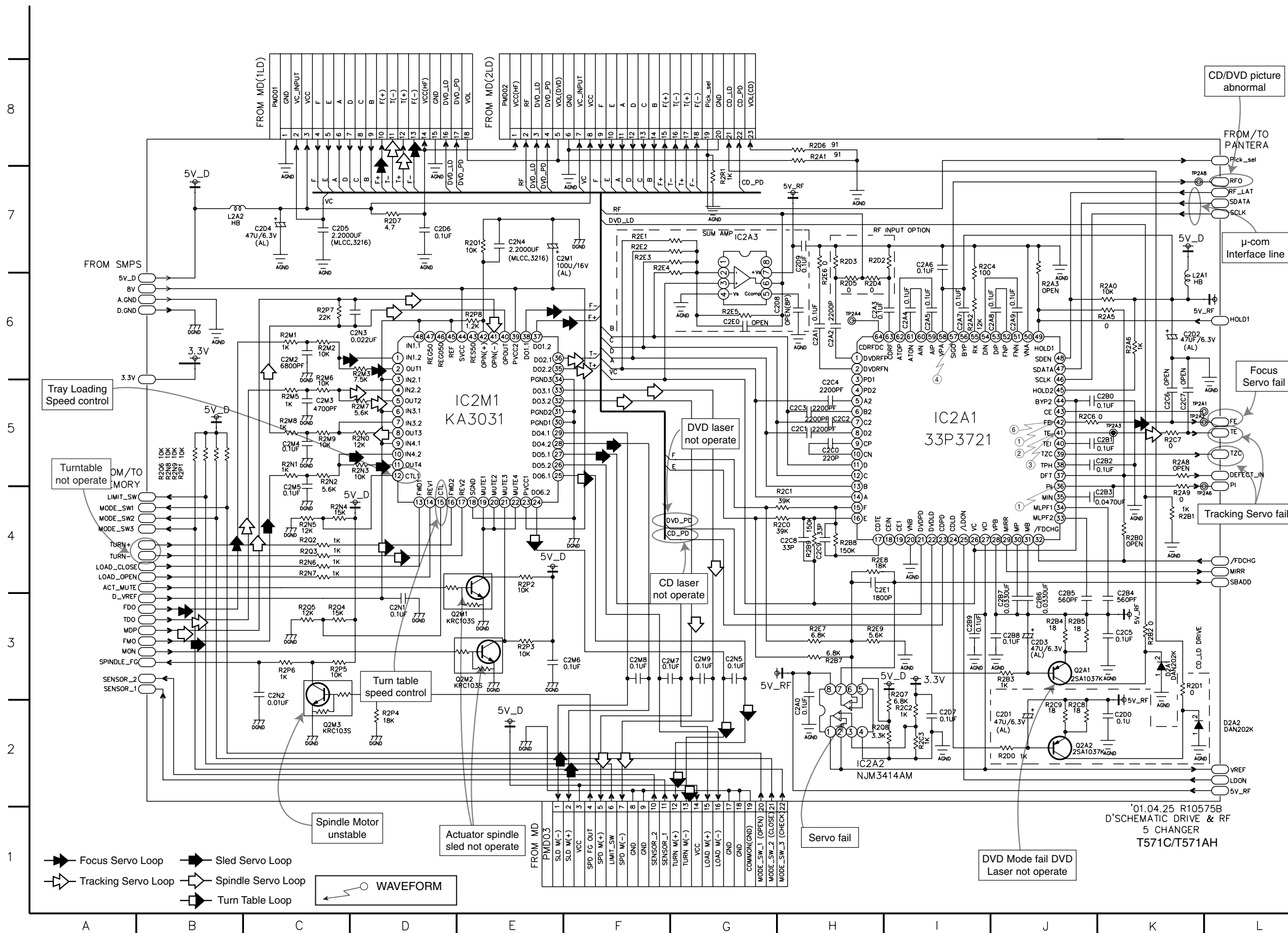
NOTE :
1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.



2. DVD DSP CIRCUIT DIAGRAM



3. DRIVE & RF CIRCUIT DIAGRAM



LOCATION GUIDE

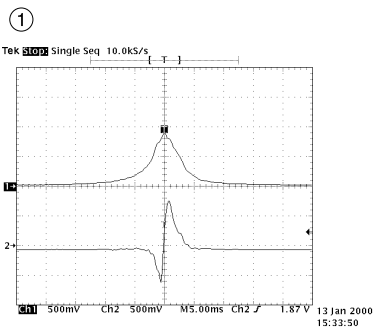
C2A0	H2	D2A2	L2	R2M7	D5
C2A1	H6	IC2A1	I5	R2M8	C5
C2A2	H6	IC2A2	H2	R2M9	C5
C2A3	H6	IC2A3	G7	R2N0	D5
C2A4	I6	IC2M1	E5	R2N1	C5
C2A5	I6	L2A1	K6	R2N2	C5
C2A6	I7	L2A2	B7	R2N3	D5
C2A7	I6	Q2A1	J3	R2N4	C4
C2A8	J6	Q2A2	J2	R2N5	C4
C2A9	J6	Q2M1	D3	R2N6	C4
C2B0	K5	Q2M2	D3	R2N7	C4
C2B1	K5	Q2M3	C2	R2N8	B5
C2B2	J5	R2A0	K6	R2N9	B5
C2B3	J4	R2A1	H8	R2P1	B5
C2B4	K3	R2A2	I6	R2P2	E4
C2B5	J3	R2A3	J6	R2P3	E3
C2B6	J3	R2A5	K6	R2P4	D2
C2B7	J3	R2A6	K6	R2P5	C3
C2B8	J3	R2A8	K5	R2P6	C3
C2B9	I3	R2A9	K4	R2P7	C6
C2C0	H5	R2B0	K4	R2P8	E6
C2C1	H5	R2B1	K4	R2Q1	E7
C2C2	H5	R2B2	K3	R2Q2	C4
C2C3	H5	R2B3	J3	R2Q3	C4
C2C4	H5	R2B4	J3	R2Q4	C3
C2C5	K3	R2B5	J3	R2Q5	C3
C2C6	K5	R2B7	H3	R2Q6	B5
C2C7	K5	R2B8	H4	R2Q7	I3
C2C8	H4	R2B9	H4	R2Q8	H2
C2C9	H4	R2C0	G4	R2R1	G7
C2D0	K2	R2C1	H4	TP2A1	K5
C2D1	J2	R2C2	I2	TP2A2	K5
C2D2	K6	R2C3	I2	TP2A3	K5
C2D3	J3	R2C4	I7	TP2A4	H6
C2D4	C7	R2C6	J5	TP2A6	K4
C2D5	C7	R2C7	K5	TP2A8	K7
C2D6	D7	R2C8	J2	TZC	L5
C2D7	I2	R2C9	J2	VC	F7
C2D8	H6	R2D0	J2	VC	F6
C2D9	H7	R2D1	K3	VC	C7
C2E0	G6	R2D2	H7	VREF	L2
C2E1	H4	R2D3	H7		
C2M1	E7	R2D4	H6		
C2M2	C6	R2D5	H6		
C2M3	C5	R2D6	H8		
C2M4	C5	R2D7	D7		
C2M5	C4	R2E1	F7		
C2M6	F3	R2E2	F7		
C2M7	F3	R2E3	F7		
C2M8	F3	R2E4	F7		
C2M9	G3	R2E5	G6		
C2N1	D3	R2E6	H6		
C2N2	C3	R2E7	H3		
C2N3	D6	R2E8	H4		
C2N4	E7	R2E9	H3		
C2N5	G7	R2M1	C6		
CD_PD	G3	R2M2	C6		
CD_PD	F4	R2M3	D6		
D.GND	A6	R2M5	C5		
D2A1	K3	R2M6	C5		

[illegible]

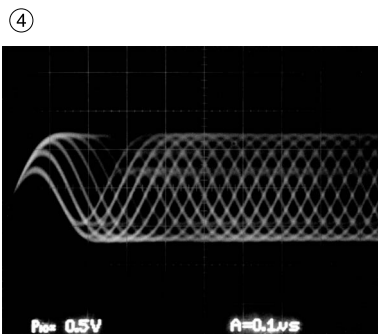
C501	D6	TP501	K11
C502	D5	TP502	J10
C503	E10	TP503	J10
C504	D9	TP504	J11
C505	E11	TP505	H2
C506	C9	TP506	H2
C507	E11	TP513	D9
C508	L3	TP514	D9
C509	L4	TP515	O10
C510	L4	TP516	M10
C511	L5	TP517	D8
C512	L6	X501	G11
C513	L7	X101	F2
C514	L7	X101	N3
C515	L8	X101	N3
C516	L9	X1010	H2
C517	K10	X1010	N3
C518	J10	X1010	N3
C519	I10	X102	G2
C520	H10	X102	N3
C521	H10	X102	N3
C522	G10	X104	B4
C523	F10	X104	C4
C525	D8	X104	G2
C526	D7	X105	G2
C527	D6	X105	B4
C528	D6	X105	C4
C529	D5	X106	G2
C530	E3	X106	B4
C531	F3	X106	C4
C532	G3	X107	B4
C533	H3		
C534	H3		
C535	I3		
C536	J3		
C538	F10		
C539	L8		
C540	G11		
C541	G11		
C543	G10		
C544	B9		
IC501	H7		
IC502	N11		
IC503	C10		
LS02	D10		
LS03	D10		
R501	I11		
R503	E11		
R504	E10		
R505	F10		
R506	D10		
R507	D10		
R508	D11		
R509	D11		
R511	D4		
R512	D11		
R513	D11		
R514	I11		
R515	I11		
R516	J11		
R520	J11		
R521	E2		
R522	J11		
R523	D2		
R524	C10		
R525	M6		
R526	N11		
R533	J11		
R534	O11		
R535	J11		
R536	J11		
R580	D5		
R588	E11		
R589	F11		
R590	F11		
R591	F11		
R597	H2		
R598	H11		
R599	E11		
R581	B6		
R582	B6		
R583	B7		

3-24

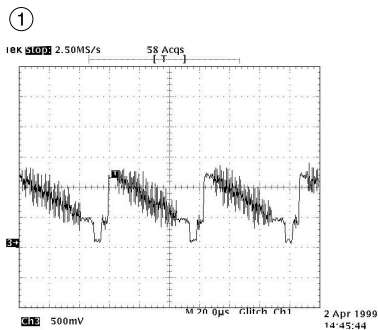
• WAVEFORMS



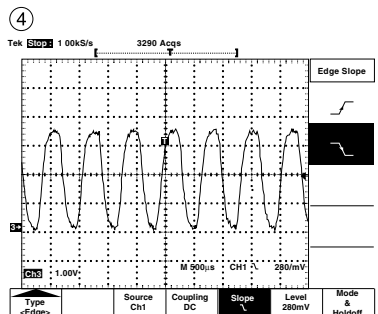
IC2A1 Pin 42, Focus Error
IC2A1 Pin 36, Pi



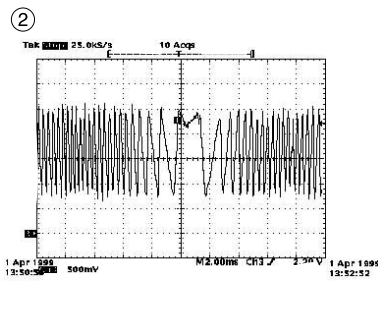
IC2A1 Pin 57, RF



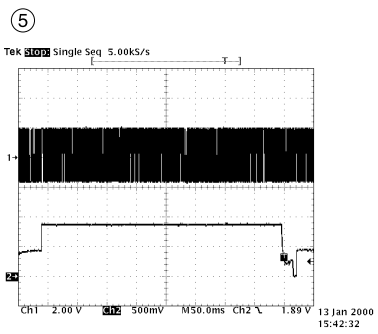
IC501 Pin 118, Composite



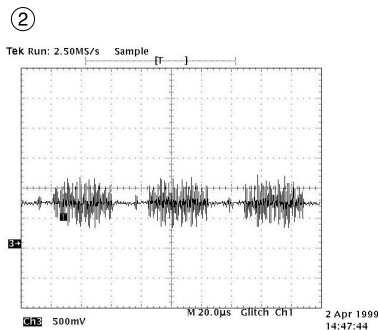
IC501 Pin 99, PANTER MAIN



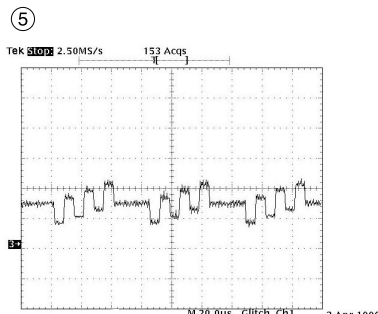
IC2A1 Pin 41 Tracking Error



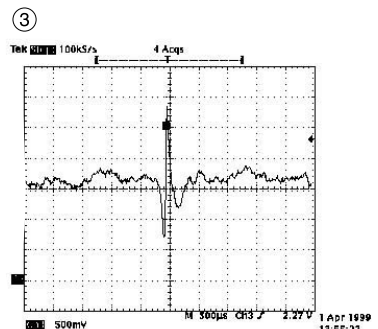
IC201 Pin 88, SLED Drive(FMO)
IC201 Pin 18, SLED FG



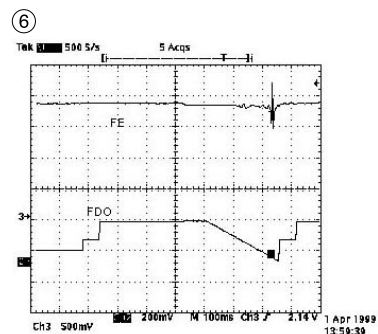
IC501 Pin 112, Chrominance (Super video out Mode)



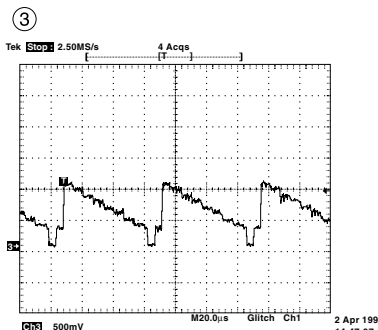
IC501 Pin 112 Component Pb



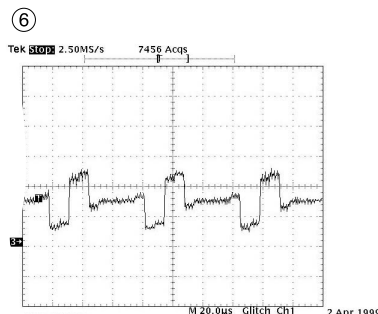
IC2A1 Pin 41 VBR TRACKING Error



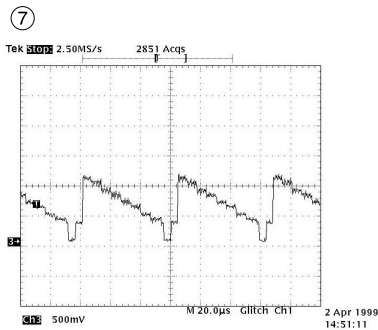
IC2A1 Pin42, Focus Error(in Focus Search)
IC201 Pin 83, Focus Drive(FDO)



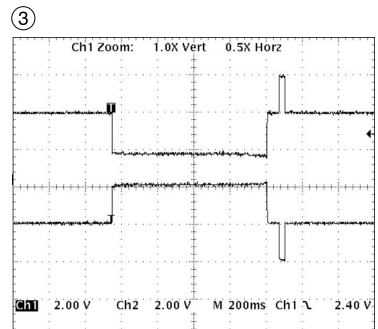
IC501 Pin 114, Luminance (Super video out Mode)



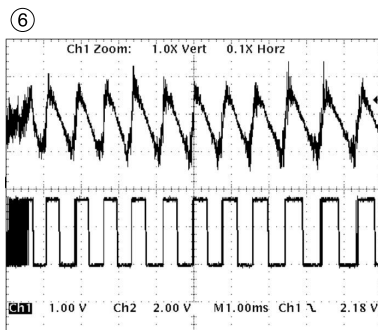
IC501 Pin 110 Component Pr



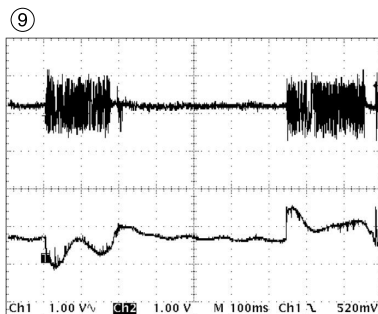
IC501 Pin 114 Component Y



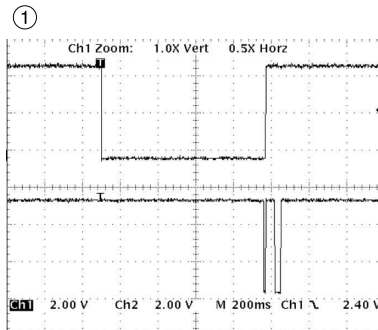
TURN(+)(-) from Motor Drive Reverse turn



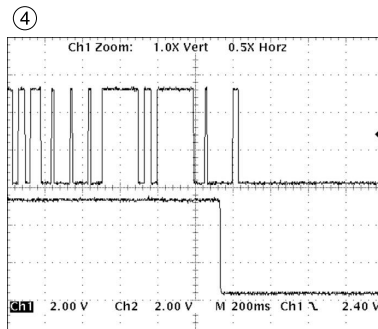
TE/TZC Before tracking servo ON



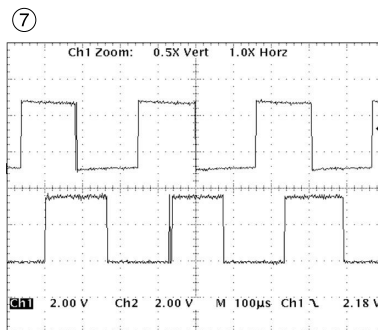
TE/SLD(+) Search mode (outter => inner)



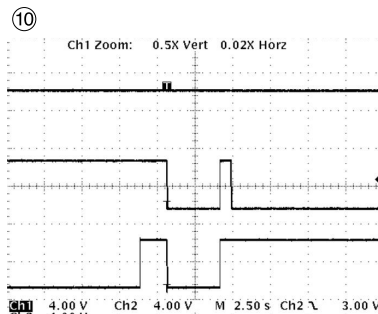
TURN(+)(-) Signal from μ-com



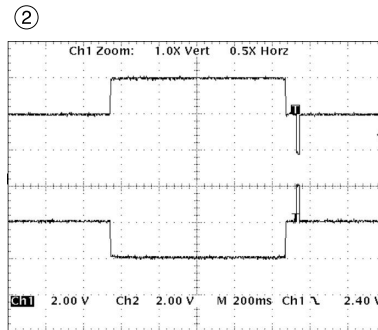
Sensor 1 (disc position)
Sensor 2 (disc ready)



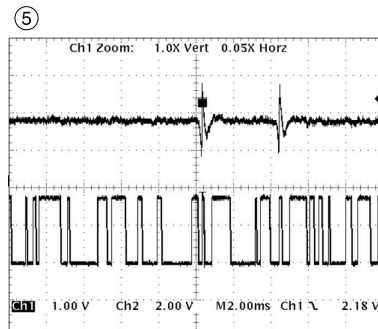
TZC/MIRR (Search mode)



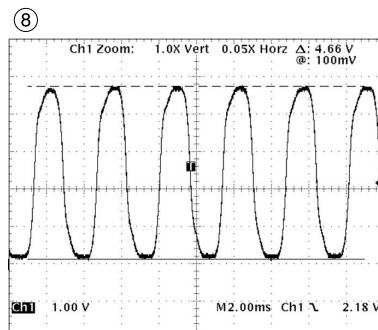
Tray open Tray closed



TURN(+)(-) from Motor Drive Forward turn

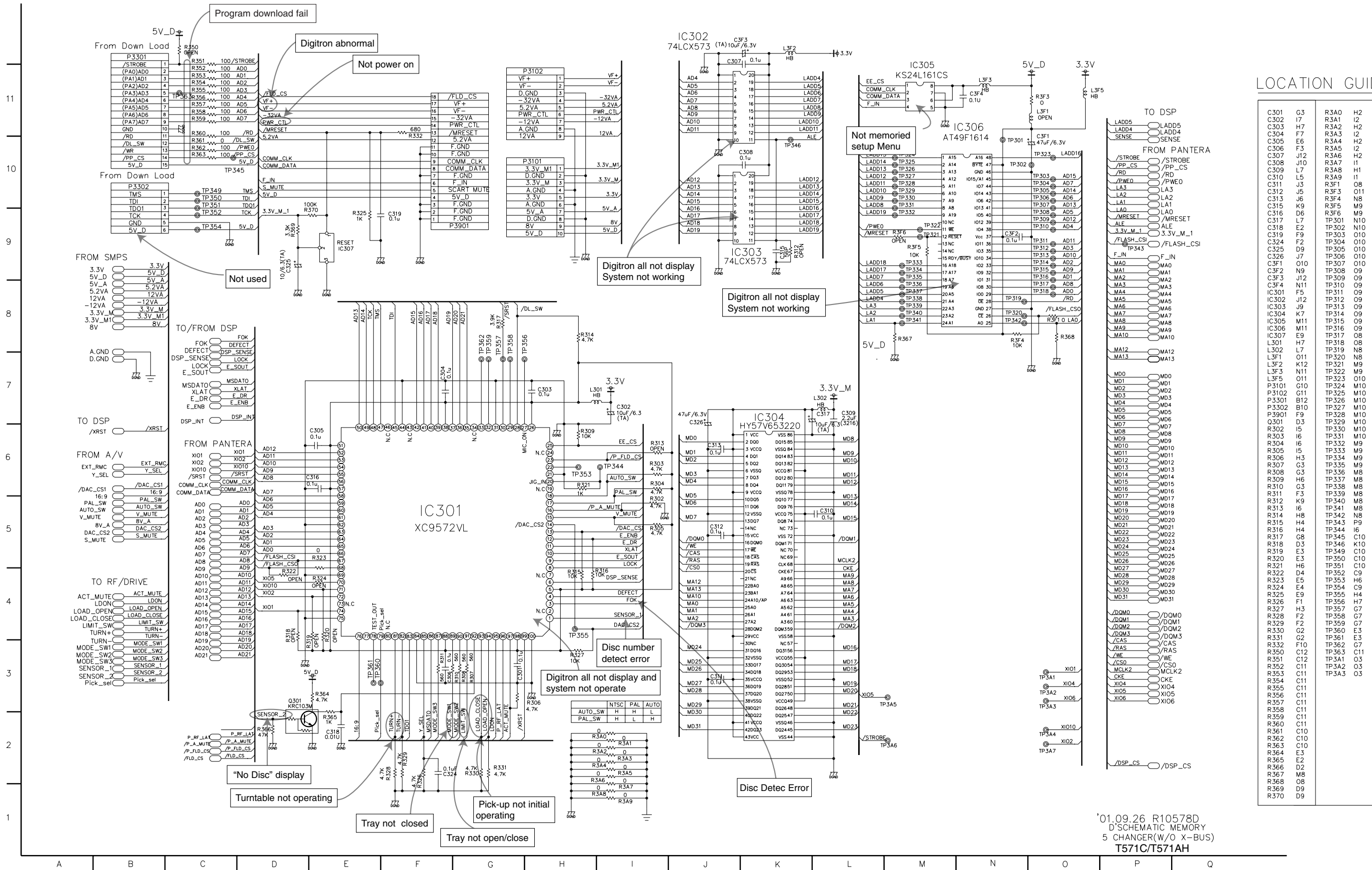


TE/TZC After tracking servo ON (Play mode)

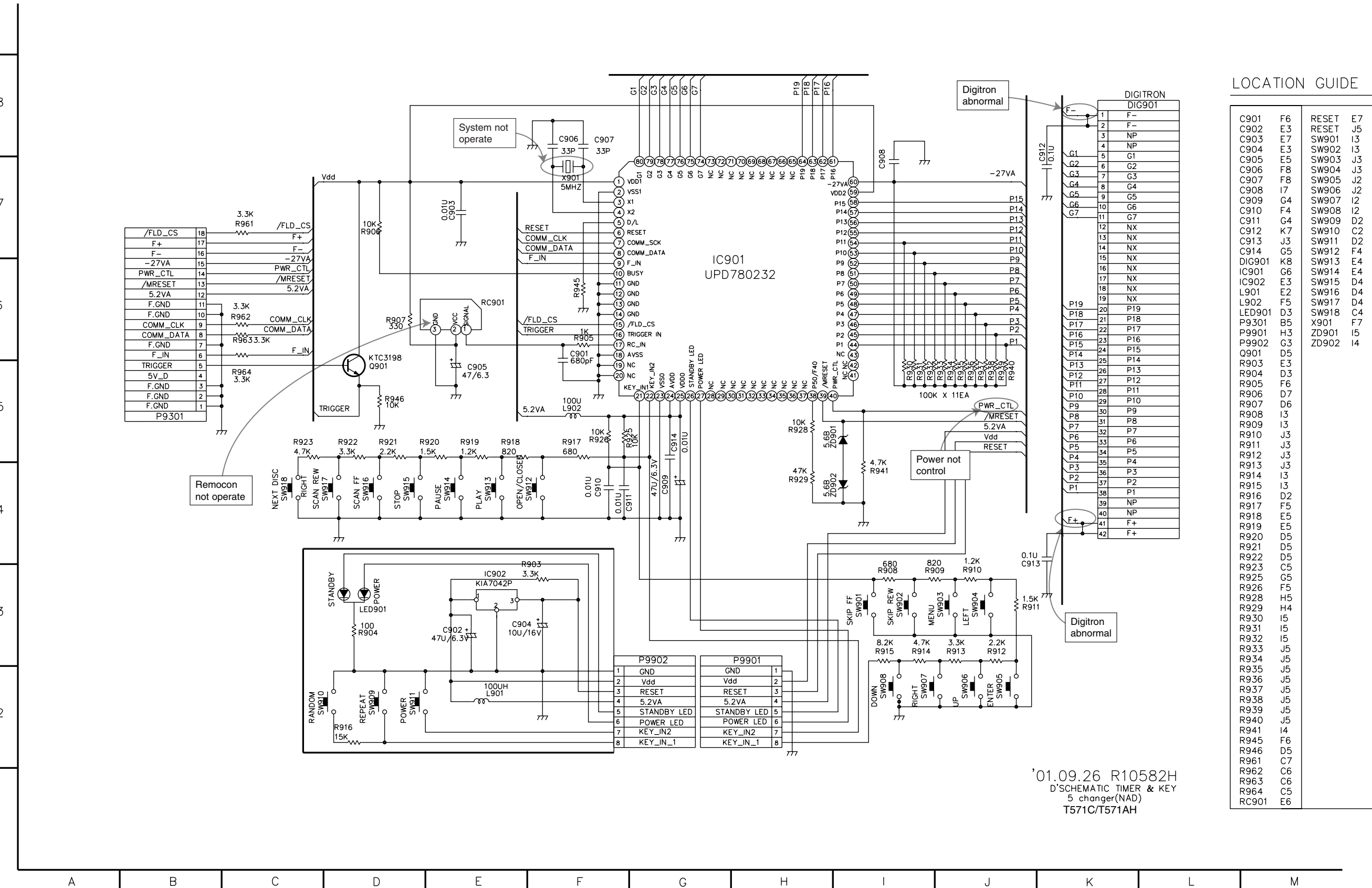


FG Signal from M/D (Play mode)

5. MEMORY CIRCUIT DIAGRAM



6. TIMER & KEY CIRCUIT DIAGRAM



'01.09.26 R10582H
D'SCHEMATIC TIMER & KEY
5 changer(NAD)
T571C/T571AH

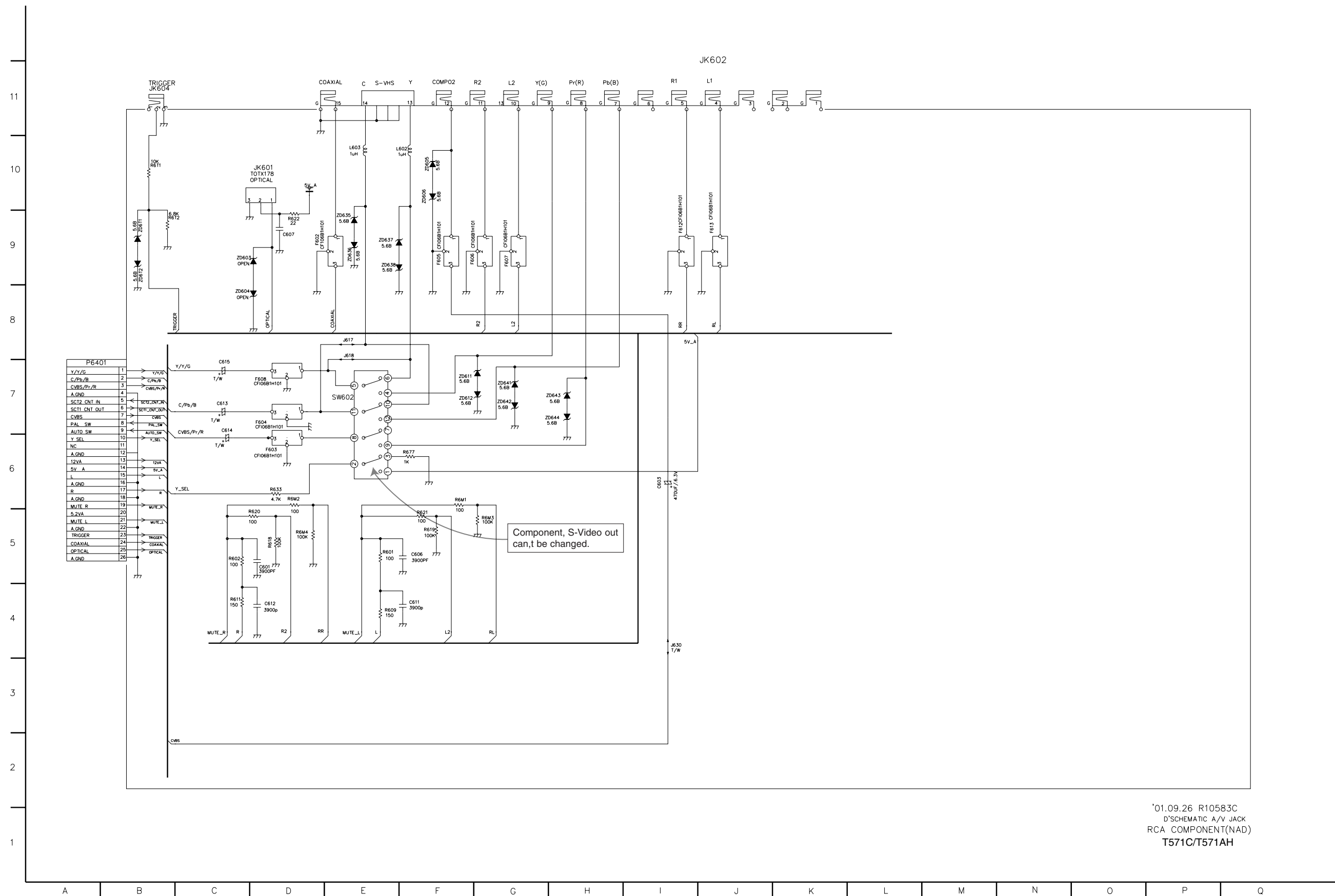
LOCATION GUIDE			
C901	F6	RESET	E7
C902	E3	RESET	J5
C903	E7	SW901	I3
C904	E3	SW902	I3
C905	E5	SW903	J3
C906	F8	SW904	J3
C907	F8	SW905	J2
C908	I7	SW906	J2
C909	G4	SW907	I2
C910	F4	SW908	I2
C911	G4	SW909	D2
C912	K7	SW910	C2
C913	J3	SW911	D2
C914	G5	SW912	F4
DIG901	K8	SW913	E4
IC901	G6	SW914	E4
IC902	E3	SW915	D4
L901	E2	SW916	D4
L902	F5	SW917	D4
LED901	D3	SW918	C4
P9301	B5	X901	F7
P9901	H3	ZD901	I5
P9902	G3	ZD902	I4
Q901	D5		
R903	E3		
R904	D3		
R905	F6		
R906	D7		
R907	D6		
R908	I3		
R909	I3		
R910	J3		
R911	J3		
R912	J3		
R913	J3		
R914	I3		
R915	I3		
R916	D2		
R917	F5		
R918	E5		
R919	E5		
R920	D5		
R921	D5		
R922	D5		
R923	C5		
R925	G5		
R926	F5		
R928	H5		
R929	H4		
R930	I5		
R931	I5		
R932	I5		
R933	J5		
R934	J5		
R935	J5		
R936	J5		
R937	J5		
R938	J5		
R939	J5		
R940	J5		
R941	I4		
R945	F6		
R946	D5		
R961	C7		
R962	C6		
R963	C6		
R964	C5		
RC901	E6		

[illegible]

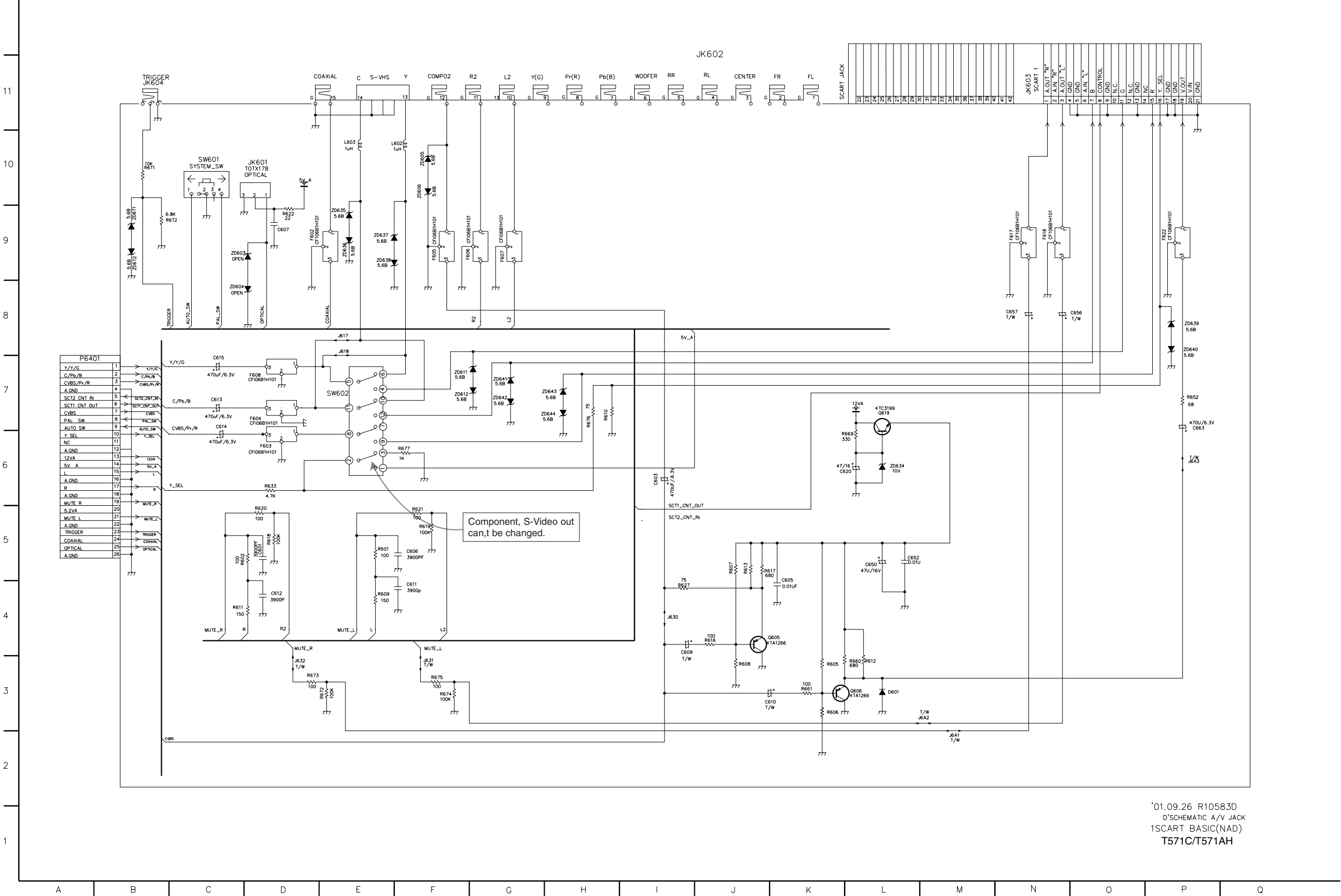
LOCATION GUIDE					
C401	C9	Q401	C10	R466	K8
C402	D9	Q402	M11	R467	G7
C403	E10	Q403	M10	R468	H7
C404	E8	Q404	C3	R469	I7
C405	B9	Q405	N10	R470	J7
C406	E9	Q406	N10	R472	K7
C407	G10	Q407	N11	R473	K6
C408	F9	Q408	O11	R474	G6
C409	G9	Q412	M5	R475	I5
C411	H9	Q413	N5	R476	G5
C412	H9	Q414	N5	R477	I5
C413	I9	Q450	N5	R478	I5
C414	C9	Q451	O5	R479	H5
C415	H9	Q452	O5	R480	J6
C416	H9	Q453	P5	R482	K6
C417	H10	Q454	P5	R483	K5
C415	J9	Q455	P5	R484	G5
C420	J9	Q707	M7	R485	H4
C421	E10	Q708	M6	R486	I4
C422	N4	Q709	N7	R487	J5
C423	P4	Q710	N6	R489	K5
C424	N2	R401	F10	R490	K4
C434	H10	R402	C10	R491	K4
C435	E8	R403	C9	R493	G3
C437	F9	R404	C9	R494	I3
C438	L5	R405	C9	R495	H4
C439	L4	R406	C8	R496	H3
C440	N10	R407	D10	R497	J4
C450	B6	R408	D10	R499	K4
C452	E7	R409	D10	R4A1	K3
C453	F6	R410	H10	R4A2	G3
C454	D4	R411	G9	R4A3	H3
C455	F8	R412	H9	R4A4	H2
C456	H7	R413	I8	R4A5	I2
C457	H7	R414	H10	R4A6	J3
C458	H7	R415	H10	R4A8	K3
C459	J8	R416	H10	R4A9	K2
C461	F6	R417	H10	R4C1	H5
C462	H6	R418	C9	R4C5	I3
C463	H6	R419	J10	R4E1	F7
C464	I6	R420	J9	R4E2	G6
C465	J6	R421	H9	R4E3	F5
C467	G6	R422	G10	R4E4	F4
C468	G6	R423	G10	R4E5	F3
C469	H5	R424	E11	R4E6	F2
C470	H5	R425	N4	R4E7	N5
C471	J6	R426	N3	R4E8	O5
C473	F5	R427	O3	R4E9	O5
C474	H4	R428	N2	R4F1	P5
C475	H4	R429	N2	R4F2	P5
C476	I4	R430	M5	R4F3	P5
C477	B4	R431	M4	R701	N7
C478	J4	R432	M4	R702	M7
C479	C6	R433	F11	R708	M7
C480	F4	R434	M5	R709	N7
C481	G3	R435	N5	R711	O7
C482	H3	R436	F10	R712	O7
C483	H3	R437	F9		
C484	J3	R438	E10		
C485	D4	R439	E10		
C486	F3	R440	M11		
C487	H2	R441	M11		
C488	H2	R442	M11		
C490	J2	R443	N11		
C492	I2	R444	N11		
C493	H8	R445	N11		
C494	I6	R446	N10		
C495	H6	R447	N9		
C496	I4	R450	C7		
C497	H4	R451	C4		
C498	I2	R452	C4		
C499	I9	R453	C3		
IC401	D9	R454	C3		
IC402	I9	R455	C3		
IC403	N4	R456	C3		
IC404	P11	R457	H8		
IC450	D6	R458	G6		
IC452	I7	R459	G7		
IC453	I5	R460	H7		
IC454	I3	R461	I7		
L403	G10	R462	I7		
L451	C4	R463	J8		
D402	M5	R464	I6		
D701	O7	R465	K8		

'01.09.26 R10579N
D'SCHEMATIC A/V
DMN4022N(NAD)
T571C/T571AH

8. A/V JACK CIRCUIT DIAGRAM (T571AH ONLY)



9. SCART CIRCUIt DIAGRAM (T571C ONLY)

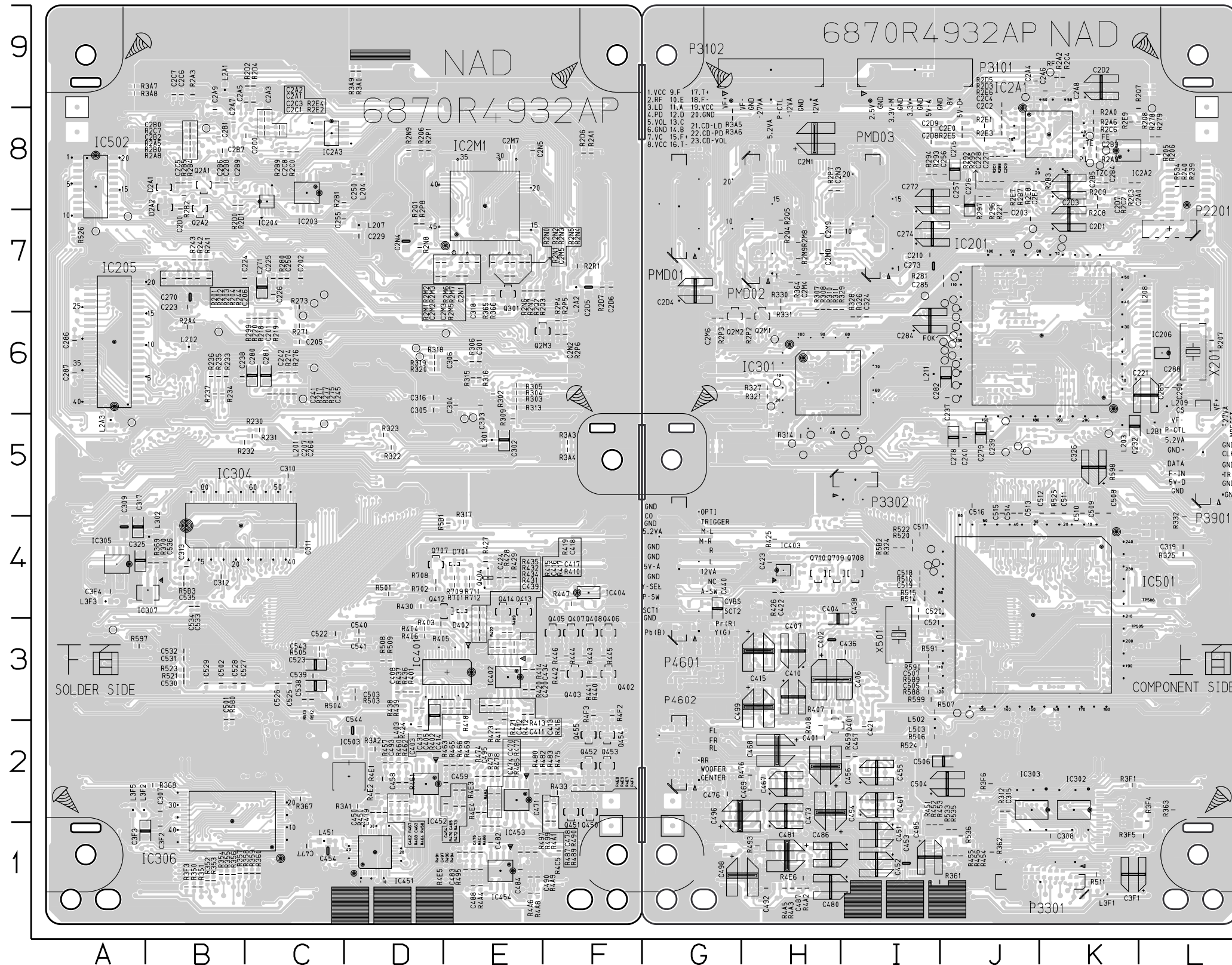


• CIRCUIT VOLTAGE CHART

MODE PIN NO.	LEVEL(V)	MODE PIN NO.	LEVEL(V)	MODE PIN NO.	LEVEL(V)	MODE PIN NO.	LEVEL(V)	MODE PIN NO.	LEVEL(V)	MODE PIN NO.	LEVEL(V)	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY
PANTERA										MEMORY		D S P								
IC 5 0 1										IC 3 0 1		IC201 SP3301								
1	3.18	54	1.6	109	0	164	3.1	219	2.29	1	4.3	1	2.00	1.30	54	3.10	3.00	109	0.00	0.00
2	1.3	55	1.4	110	0.8	165	3.1	220	2.08	2		2	2.00	1.30	55	3.10	3.00	110	0.00	0.00
3	1.4	56	1.5	111	0.9	166	3.1	221	2.29	3	3.1	3	2.00	1.30	56	0.00	0.00	111	0.00	0.00
4	2.2	57	0	112	1.3	167	3.1	222	2.29	4	0	4	2.00	1.30	57	0.00	3.13	112	0.00	0.00
5	1.5	58	1.6	113	3.1	168	3.1	223	2.49	5	3.2	5	2.00	1.30	58	5.00	4.98	113	3.40	4.70
6	0	59	1.4	114	0.78	169	3.1	224	3.1	6	2	6	2.00	1.30	59	0.00	0.00	114	5.00	5.00
7	1.5	60	1.5	115	0	170	3.1	225	2.39	7		7	2.00	1.30	60	0.00	0.00	115	1.50	1.50
8	1.4	61	1.4	116	1.26	171	0	226	2.45	8	3.1	8	2.00	1.30	61	5.00	4.98	116	1.50	1.53
9	1.6	62	3.1	117	2.38	172	3.1	227	1.5	9	0.01	9	2.00	1.30	62	0.00	0.00	117	3.10	3.10
10	3.1	63	1	118	0.08	173	3.1	228	0	10	3.1	10	2.00	1.30	63	2.10	2.10	118	0.00	0.00
11	0.7	64	1.5	119	1.2	174	3.1	229	1.52	11	3.2	11	2.00	1.30	64	0.00	0.00	119	0.00	0.00
12	0.15	65	0.005	120	2	175	1.5	230	0	12	3.2	12	2.00	1.30	65	3.10	3.00	120	3.50	4.20
13	0.15	66	0.5	121	0	176	3.1	231	1.61	13	3.2	13	2.00	1.30	66	0.00	0.00	121	3.25	4.20
14	0	67	0.003	122	3.1	177	0	232	1.6	14	3.2	14	2.00	1.30	67	3.10	3.12	122	3.45	4.30
15	0	68	1.58	123	3.1	178	3.1	233	3.1	15	0	15	2.00	1.30	68	0.00	0.00	123	3.50	4.30
16	1.7	69	0	124	3.1	179	3.1	234	1.6	16	3.1	16	2.00	1.30	69	0.00	0.20	124	3.50	4.30
17	1.4	70	3.1	125	3.1	180	3.1	235	1.6	17	3.1	17	0.00	0.00	70	0.00	0.00	125	3.50	4.50
18	0	71	1.2	126		181	3.1	236	1.5	18	3.1	18	0.00	1.50	71	3.10	3.10	126	0.00	0.00
19	1.5	72	1.2	127		182	3.18	237	0	19		19	0.00	1.50	72	0.00	0.20	127	3.60	2.60
20	1.6	73	1.2	128		183	0.086	238	1.6	20	0	20	0.00	1.50	73	0.00	0.00	128	0.00	0.00
21	0	74	1.2	129		184	3	239	1.4	21	0	21	0.00	1.50	74	3.10	3.10	129	3.60	2.60
22	1.6	75	3.1	130		185	2.4	240	1.5	22	0	22	0.00	1.50	75	0.00	0.00	130	0.00	0.20
23	0	76	1.65	131		186	2.3			23	3	23	3.10	3.00	76	0.00	0.00	131	0.00	0.00
24	3.1	77	2.2	132	0	187	0			24		24	0.00	1.50	77	0.00	0.00	132	0.00	3.10
25	1.7	78	1.5	133		188	0			25	0.625	25	0.00	1.50	78	0.00	2.30	133	3.10	3.10
26	1.4	79	1.5	134		189	3.1			26	3.2	26	0.00	1.50	79	3.10	3.10	134	0.00	0.00
27	3.1	80	3.1	135	2.2	190	0			27	0.705	27	0.00	1.50	80	5.00	5.00	135	0.00	0.00
28	1.5	81	3.1	136		191	0.017			28	3.2	28	0.00	1.50	81	0.00	0.00	136	3.10	2.20
29	0.15	82	0.001	137	3.1	192	2.2			29	3.1	29	0.00	0.00	82	5.00	5.00	137	0.00	0.00
30		83	3.1	138	3.1	193	3.1			30		30	2.10	2.00	83	2.10	2.00	138	0.00	0.00
31	0	84	3.7	139	3.1	194	3.1			31	0	31	3.10	3.00	84	2.10	2.10	139	3.10	3.10
32	0.7	85	0	140	3.1	195	0			32		32	3.10	1.50	85	3.10	3.10	140	3.00	3.10
33	1.5	86		141	3.1	196	3.18			33		33	3.10	2.50	86	1.40	1.40	141	0.00	0.00
34	2.2	87	3.1	142	3.1	197	1.3			34		34	3.10	2.50	87	0.00	0.00	142	3.00	3.00
35	2	88	3.1	143	3.1	198	3.1			35	3.1	35	2.10	1.30	88	2.10	2.00	143	3.10	3.10
36	3.1	89	2.1	144	3.1	199	3.1			36	3.1	36	1.10	1.80	89	2.10	2.00	144	3.10	3.10
37	2.9	90	0.004	145	3.1	200	3.1			37	2.39	37	0.00	0.00	90	0.00	0.00	145	3.10	0.90
38	2.2	91	3.1	146	3.1	201	0			38	3.2	38	0.00	0.00	91	1.50	1.55	146	3.50	4.50
39	2.9	92	0	147	0	202	2.3			39	1.49	39	0.00	0.00	92	3.10	3.12	147	0.00	0.00
40	0	93		148	3.1	203	3.1			40	1.5	40	3.10	3.00	93	1.60	1.55	148	0.00	0.00
41	0	94		149	3.1	204	0.001			41	3.09	41	0.00	0.00	94	1.10	1.11	149	0.00	0.00
42	0	95		150	3.1	205	3.1			42	1.69	42	3.10	3.00	95	2.00	2.00	150	0.00	0.00
43	1.6	96		151	3.1	206	3.1			43	0	43	0.00	0.00	96	1.55	1.55	151	0.00	0.00
44	3.1	97	0	152	3.1	207	3.1			44	3.1	44	0.00	0.00	97	0.00	0.00	152	0.00	0.00
45	1.6	98		153	3.1	208	1.6			45		45	3.10	3.00	98	1.55	1.55	153	0.00	0.00
46	1.5	99		154	3.1	209	3.1			46	3.1	46	0.00	0.00	99	1.56	2.15	154	0.00	0.00
47	0	100	0	155	3.1	210	3.18			47		47	0.00	0.00	100	3.10	3.10	155	1.55	1.55
48	1.4	101	2.1	156	3.1	211	0.018			48	2.5	48	0.00	0.00	101	1.55	1.58	156	3.10	3.10
49	0	102	3.1	157	3.1	212	2.2			49	3.1	49	0.00	3.00	102	1.55	1.55	157	1.50	1.50
50	1.5	103	0	158	3.1	213	3.19			50	3.1	50	0.00	0.00	103	1.62	1.64	158	0.00	0.00
51	1.7	104	0	159	2.2	214	2.69			51	3.2	51	0.00	0.00	104	1.55	1.55	159	0.00	0.00
52	1.2	105	0	160	1.5	215	1.5			52	3.1	52	3.10	1.80	105	1.50	1.50	160	2.60	2.60
53	3.1	106	0	161	3.1	216	2.9			53	3.1	53	0.00	0.00	106	0.00	0.00	161	3.10	3.10
		107	2.1	162		217	2.59								107	0.00	0.00	162	2.00	2.00
		108	2.1	163	0	218	0								108	0.00	0.00	163	2.00	2.00

PRINTED CIRCUIT DIAGRAMS

1. MAIN P.C.BOARD



LOCATION GUIDE

C201	C6	C302	E5	C501	B3	L3F5	A2	R248	B8	R322	D5	R433	F2	R4C5	F1
C202	C7	C303	E6	C502	B3	L403	D2	R280	B8	R323	D5	R434	F3	R4C5	F1
C205	C6	C304	E6	C503	B3	L451	C1	R281	B8	R350	B1	R435	F4	R4E1	D2
C206	B7	C305	D6	C522	B3	L241	B8	R282	B8	R351	B1	R436	D3	R4E2	D2
C207	C6	C306	E6	C523	B3	L242	B8	R284	B8	R352	B1	R437	D3	R4E3	E2
C213	B7	C307	E5	C524	B3	L243	B8	R285	B8	R353	B1	R438	D3	R4E4	E2
C224	C7	C309	A4	C526	B3	Q301	B7	R289	C8	R354	B1	R439	D3	R4E5	E1
C225	C7	C310	C5	C527	B3	Q403	F3	R2C0	C8	R355	B1	R440	F3	R4E7	F2
C226	C7	C311	C4	C528	B3	Q402	F3	R2C7	B8	R356	B1	R441	F3	R4E8	F2
C227	C7	C312	C4	C529	B3	Q404	F4	R2C8	B8	R357	B1	R442	F3	R4E9	F2
C238	B6	C313	B4	C530	B3	Q405	F3	R201	B8	R358	C1	R443	F3	R4F1	F2
C241	C6	C316	D6	C531	B3	Q406	F3	R202	C9	R359	C1	R444	F3	R4F2	F3
C242	C6	C317	A4	C532	B3	Q407	F3	R204	C9	R360	C1	R445	F3	R4F3	F3
C243	C6	C318	E7	C533	B4	Q408	F3	R206	F8	R365	E7	R446	F3	R501	D4
C244	C6	C319	C5	C534	B4	Q409	F2	R212	C9	R366	E7	R447	F3	R503	D3
C255	D7	C3F2	B1	C535	B4	E413	E4	R2E2	C8	R367	E2	R450	D2	R504	C3
C258	C7	C3F3	B1	C536	B4	E414	E4	R2E4	C8	R368	E2	R451	D2	R505	C3
C259	C5	C3F4	A4	C538	B3	Q450	F2	R2M1	D7	R369	B4	R458	D2	R508	D3
C260	C7	C3F5	B3	C539	B3	Q451	F2	R2M2	D7	R370	B4	R459	D2	R509	D3
C271	C7	C405	E3	C540	B3	Q452	F2	R2M3	E7	R3A0	D9	R461	D2	R512	C3
C280	C6	C408	D3	C541	B3	Q453	F2	R2M5	E7	R3A1	D2	R462	D2	R513	C3
C281	C6	C411	E3	C543	B3	Q454	F2	R2M6	E7	R3A2	D2	R463	E2	R521	B3
C286	A6	C412	E3	C544	D2	Q455	F2	R2M7	E7	R3A3	F5	R464	E2	R523	B3
C287	C6	C413	E3	C545	B3	Q456	F2	R2M8	E7	R3A4	F5	R465	E2	R524	B3
C281	C8	C414	E3	D242	B8	R201	B7	R2N1	E7	R3A7	A9	R466	E2	R580	B3
C282	C8	C416	E3	D242	E4	R202	B7	R2N2	E7	R3A8	A9	R467	D2	R597	A3
C2A3	C7	C417	E3	0701	E4	R203	B7	R2N3	E7	R3A9	D9	R468	D2	R581	E4
C2A4	C7	C418	E3	0702	E4	R204	B7	R2N4	E7	R3B0	D9	R469	D2	R582	E4
C2A7	B8	C420	E4	1204	C8	R217	C6	R2N5	E7	R401	D3	R470	E2	R701	E4
C2A9	B8	C424	E4	1205	C8	R218	C6	R2N6	E7	R402	E3	R472	E2	R702	E4
C2A8	B8	C436	E3	1243	C8	R219	C6	R2N7	E7	R403	D3	R473	E2	R708	D4
C2B	B8	C437	E3	12M1	B8	R220	C6	R2N8	D7	R404	D3	R474	E2	R709	E4
C2B2	B8	C438	E3	12M2	B8	R230	C6	R2N9	D7	R405	D3	R475	E2	R710	E4
C2B6	B8	C450	D2	1305	A4	R231	C5	R2P1	B8	R406	D3	R477	E2	R712	E4
C287	B8	C454	C1	1306	B2	R232	C5	R2P4	F6	R409	E3	R478	E2	TP206	A3
C288	B8	C458	D2	1307	B4	R233	B6	R2P5	F6	R410	E3	R479	E2	TP207	C6
C2C5	C1	C401	E3	1308	B4	R234	B6	R2P6	F6	R411	E3	R480	E2	TP208	C5
C2C6	C1	C402	E3	1309	B4	R235	B6	R2P7	D7	R412	E3	R481	E2	TP209	C5
C2C1	C8	C463	D2	1404	F4	R236	B6	R201	D7	R413	E3	R483	F2	TP218	B6
C2C3	C8	C464	D2	1405	F4	R237	B6	R202	E7	R414	E3	R484	E2	TP221	B6
C2C5	B8	C465	E2	1452	D2	R238	B7	R203	F7	R415	E3	R485	E2	TP221	C6
C2C6	B8	C466	E2	1453	D2	R239	B7	R204	F7	R416	E3	R486	E2	TP221	C6
C2C7	B9	C471	E2	1454	E1	R243	B7	R2R1	F7	R417	E3	R487	F2	TP232	C7
C2C8	B8	C474	E2	1505	A8	R244	B7	R302	E6	R418	E2	R489	F2	TP244	C7
C2D0	B8	C475	E1	1503	B7	R245	B7	R303	E6	R419	E3	R490	F2	TP241	B8
C2D1	B8	C476	E1	1504	B7	R246	B7	R304	E6	R420	E3	R491	F2	TP242	B8
C2D2	F7	C478	D2	1202	B6	R274	C6	R305	E6	R421	E3	R494	E1	TP360	D6
C2M6	E7	C479	D2	L204	B8	R275	C6	R306	E6	R422	E3	R495	E1	TP361	D6
C2M5	E7	C482	E1	L207	D7	R276	C6	R309	E5	R423	E3	R496	E1	TP362	E5
C2M6	E7	C483	E1	L241	B9	R277	C6	R315	E6	R424	D2	R497	E1	TP515	A7
C2M7	E6	C484	E1	L242	B9	R278	C8	R316	E6	R425	D2	R498	E1	TP516	A7
C2N1	E7	C488	E1	L243	A5	R299	C6	R316	E6	R428	E4	R4A1	E1		
C2N2	F6	C490	E1	L301	E5	R2A1	F8	R317	E4	R429	E4	R4A4	E1		
C2N3	E7	C493	D3	L302	B4	R2A3	B9	R318	E6	R430	D4	R4A6	E1		
C2N4	E6	C494	D3	L303	B4	R2A4	B9	R319	E6	R431	D4	R4A7	E1		
C301	E6	C497	E1	L3F3	A4	R2A5	B8	R320	D6	R432	E4	R4A9	E1		

C210	J7	C415	H3	L3F1	K1	R2P3	G6	R535	J1	T319	K2
C211	H2	C423	H2	L503	L2	R204	H7	R536	J1	T319	K2
C221	L6	C422	H4	L503	L2	R204	H7	R588	J3	T321	J1
C227	H8	C423	H4	P2201	L7	R205	H7	R589	J3	T322	J1
C228	H8	C436	L3	P3101	L9	R207	L8	R590	J3	T323	J1
C232	K5	C238	L4	P3101	H9	R208	L8	R591	J3	T324	J1
C240	L4	C440	G4	P3101	G4	R209	L8	R592	J3	T325	J1
C239	J5	C451	H1	P3302	L5	R308	H7	R599	J3	T326	J1
C240	J5	C452	H1	P3901	L5	R310	H7	R582	L4	T327	K1
C256	H8	C456	H2	P6001	G4	R311	H7	T201	K5	T328	K1
C257	H8	C455	L2	P6001	G4	R312	H7	T202	K5	T329	K1
C272	I8	C456	H2	P6001	G8	R314	H5	T203	J5	T330	K1
C273	I7	C457	L2	P6002	H7	R321	H6	T204	J5	T331	K1
C274	I7	C461	L2	P6003	I7	R324	L4	T205	J5	T332	J1
C275	J8	C467	H2	Q241	H6	R325	L4	T209	J6	T333	J1
C276	J8	C468	H2	Q241	H6	R326	L4	T210	J6	T334	J1
C278	J5	C469	H2	Q241	H6	R327	H6	T211	J6	T335	J2
C279	J5	C473	H2	T078	L4	R328	L6	T213	J6	T336	J2
C282	J5	C476	G2	T079	H4	R329	I7	T214	J6	T337	K1
C283	J5	C480	H6	T079	H4	R330	L4	T215	J6	T338	K1
C285	J7	C481	H1	R205	L8	R331	H7	T216	J6	T339	K2
C286	L6	C485	H1	R206	L8	R332	L4	T219	H6	T340	K2
C289	L6	C486	H1	R207	L6	R361	J1	T220	J7	T341	K2
C293	L6	C487	H1	R207	J7	R362	J1	T222	J7	T342	K2
C290	L6	C492	L2	R239	L2	R363	L2	T223	K8	T343	K8
C246	J9	C494	H2	R240	L8	R364	H7	T224	K8	T344	H5
C244	K9	C496	G2	R278	L8	R345	G8	T225	K6	T345	L2
C245	K8	C498	H1	R279	L8	R346	G8	T226	K6	T346	J2
C247	K8	C499	H1	R279	L8	R347	G8	T227	K6	T347	J2
C284	K8	C504	J2	R292	J8	R3F4	L2	T229	J7	T350	I5
C285	K8	C505	L3	R293	L8	R3F5	L1	T230	J7	T351	I5
C282	K8	C506	J2	R294	L8	R3F6	J2	T232	J7	T352	I5
C2C4	J8	C507	R085	R407	H3	R233	J7	T233	H7	T353	H6
C201	K7	C508	K5	R295	L8	R3F7	L2	T234	J7	T354	I5
C201	K7	C509	K5	R297	L8	R425	H4	T239	J7	T355	H6
C202	K8	C510	K5	R240	K8	R426	H4	T241	J6	T356	H5
C203	K8	C511	K5	R242	K9	R451	I1	T243	J7	T357	H5
C204	K8	C512	J5	R243	K9	R452	I1	T244	J7	T358	H5
C207	K8	C513	J5	R249	K8	R453	J1	T242	L8	T363	K1
C208	L8	C514	J5	R283	K8	R454	J1	T243	K8	T341	K2
C220	I8	C515	J5	R287	L8	R455	J1	T244	K9	T342	L2
C2E0	I8	C516	J5	R288	L8	R456	J1	T246	K8	T343	L2
C201	H8	C517	L4	R2C2	K8	R476	H2	T201	L1	T345	L5
C2M4	H7	C519	L4	R2C3	K8	R493	H1	T302	K2	T346	L2
C2M6	G6	C520	L4	R2C4	K9	R442	H1	T303	J2	T347	L2
C2M8	G6	C521	L4	R2C5	K9	R443	H1	T304	J2	T348	L2
C2M9	H7	C1201	K6	R2C8	K8	R4A5	H1	T305	K2	T502	L4
C230	H8	L206	L6	R2C9	K8	R4E6	H1	T306	K1	T503	L4
C308	K1	C12A1	K8	R203	J8	R506	I2	T307	K2	T504	I4
C315	J2	C12A2	K8	R205	J9	R507	I3	T308	K1	T505	L3
C316	J2	C1201	K6	R204	J8	R508	I2	T309	K1	T506	L3
C324	I6	L302	K2	R2E3	J8	R514	L4	T310	K1	T513	K2
C326	K5	L303	J2	R2E5	J8	R515	L4	T311	K2	T514	J3
C3F1	K1	C1403	H4	R2E6	J8	R516	L4	T312	K2	T517	J2
C401	H8	C1501	H4	R2E7	J8	R517	L4	T313	K2	T520	J2
C402	H3	L203	K5	R2E8	J8	R522	L4	T314	K2	X501	I3
C404	K5	L208	L7	R2E9	K8	R524	I2	T315	K2		
C405	K5	L209	L6	R2M8	H7	R525	K5	T316	K2		
C404	H3	L211	I6	R2M9	H8	R533	J8	T317	K2		
C410	L4			R2M9	H8	R533	J8	T318	K2		

[illegible]

BC101	C8
BD01	B6
C101	FH102
C102	C8
C103	A5
C104	C103
C105	C8
C106	C105
C107	A5
C108	C106
C109	C107
C110	C108
C111	C109
C112	B3
C113	L101
C114	B7
C115	B5
C116	L102
C117	C3
C118	B3
C119	L05
C120	P1301
C121	D1
C122	P1302
C123	B4
C124	PW101
C125	D7
C126	Q107
C127	Q108
C128	C3
C129	R101
C130	C6
C131	R102
C132	D5
C133	A3
C134	R103
C135	D6
C136	R104
C137	D5
C138	R11
C139	R12
C140	C3
C141	R12
C142	B2
C143	R12
C144	C3
C145	R12
C146	A4
C147	R12
C148	A5
C149	R12
C150	A5
C151	R12
C152	A5
C153	R12
C154	A5
C155	R12
C156	A5
C157	R12
C158	A5
C159	R12
C160	A5
C161	R12
C162	A5
C163	R12
C164	A5
C165	R12
C166	A5
C167	R12
C168	A5
C169	R12
C170	A5
C171	R12
C172	A5
C173	R12
C174	A5
C175	R12
C176	A5
C177	R12
C178	A5
C179	R12
C180	A5
C181	R12
C182	A5
C183	R12
C184	A5
C185	R12
C186	A5
C187	R12
C188	A5
C189	R12
C190	A5
C191	R12
C192	A5
C193	R12
C194	A5
C195	R12
C196	A5
C197	R12
C198	A5
C199	R12
C200	A5
C201	R12
C202	A5
C203	R12
C204	A5
C205	R12
C206	A5
C207	R12
C208	A5
C209	R12
C210	A5
C211	R12
C212	A5
C213	R12
C214	A5
C215	R12
C216	A5
C217	R12
C218	A5
C219	R12
C220	A5
C221	R12
C222	A5
C223	R12
C224	A5
C225	R12
C226	A5
C227	R12
C228	A5
C229	R12
C230	A5
C231	R12
C232	A5
C233	R12
C234	A5
C235	R12
C236	A5
C237	R12
C238	A5
C239	R12
C240	A5
C241	R12
C242	A5
C243	R12
C244	A5
C245	R12
C246	A5
C247	R12
C248	A5
C249	R12
C250	A5
C251	R12
C252	A5
C253	R12
C254	A5
C255	R12
C256	A5
C257	R12
C258	A5
C259	R12
C260	A5
C261	R12
C262	A5
C263	R12
C264	A5
C265	R12
C266	A5
C267	R12
C268	A5
C269	R12
C270	A5
C271	R12
C272	A5
C273	R12
C274	A5
C275	R12
C276	A5
C277	R12
C278	A5
C279	R12
C280	A5
C281	R12
C282	A5
C283	R12
C284	A5
C285	R12
C286	A5
C287	R12
C288	A5
C289	R12
C290	A5
C291	R12
C292	A5
C293	R12
C294	A5
C295	R12
C296	A5
C297	R12
C298	A5
C299	R12
C300	A5
C301	R12
C302	A5
C303	R12
C304	A5
C305	R12
C306	A5
C30	

CONTENTS

SECTION 1SUMMARY

SECTION 2CABINET & MAIN CHASSIS

SECTION 3ELECTRICAL

SECTION 4MECHANISM

SECTION 5REPLACEMENT PARTS LIST

SECTION 1

SUMMARY

CONTENTS

PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS	1-3
SERVICING PRECAUTIONS	1-4
• General Servicing Precautions	
• Insulation Checking Prodedure	
• Electrostatically Sensitive Devices	
SPECIFICATIONS	1-5

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

• Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
2. Parts identified by the \triangle symbol and shaded (∇) parts are critical for safety.
Replace only with specified part numbers.
Note : Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.
3. Use Specified internal wiring. Note especially:
 - 1) Double insulated wires
 - 2) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulation sheets for transistor
5. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
6. Check that replaced wires do not contact sharp edged or pointed parts.
7.
 - 1) When a power cord has been replaced, check that A mark is made on the cord, under strain, near the aperture, and the flexible cord is subjected 100 times to a pull of 40N for a duration of 1 second each.
 - 2) During the test, the cord shall not be displaced by more than 2mm
8. Also check areas surrounding repaired locations.

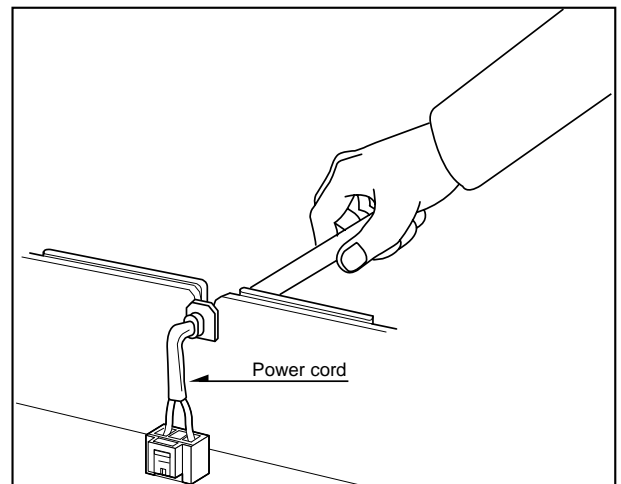


Fig. 1

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

• Insulation resistance test

confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) See table below.

• Dielectric strength test

Confirm specified dielectric strength or greater between power cord prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) See table below.

• Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

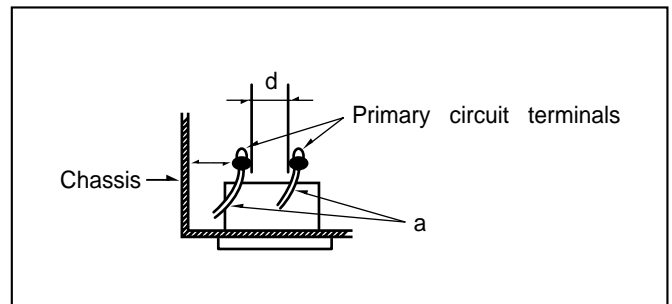


Fig. 2

Table 1 : Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d')
200 to 240 V *100 to 130 V	Europe Australia	≥ 10 MΩ/500 V DC	4kV 1 minute	≥ 6mm(d) ≥ 8mm(d) (a Power cord)

* Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

• Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

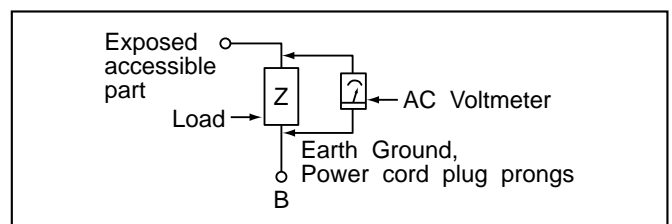


Fig. 3

Table 2:Leakage current ratings for selected areas.

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to :
200 to 240 V	Europe	2kΩ	i ≤ 0.7m A peak i ≤ 2m A DC	Antenna earth terminals
100 to 130 V	Australia	50kΩ	i ≤ 0.7m A peak i ≤ 2m A DC	Other terminals

Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

SPECIFICATIONS

DVD VIDEO PLAYER

Power supply	AC 120 V, 60 Hz (T571AH) AC 110~240 V, 50/60 Hz (T571C)
Power consumption	16 W
Mass	5.7 kg(12.6 lbs)
External dimensions	440 x 118 x 423 mm (W x H x D)
Signal system	NTSC (T571AH) PAL (T571C)
Laser	(DVD) Semiconductor laser, wavelength 650 nm (CD) 780 nm
Frequency range (audio)	DVD : fs = 96 kHz 4 Hz - 44 kHz fs = 48 kHz 4 Hz - 22 kHz CD: 4 Hz - 20 kHz
Signal-to-noise ratio (audio)	More than 105dB (EIAJ)
Audio dynamic range (audio)	More than 100dB (EIAJ)
Harmonic distortion(audio)	0.003%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK)) (EIAJ)
Operations	Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

OUTPUTS

Video outputs	1.0V(p-p), 75Ω, negative sync., RCA jack x 1/ SCART(TO TV) (T571C ONLY)
S-video outputs	(Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.286V(p-p), 75Ω
Component video output	(Y)1.0V(p-p), 75Ω,negative sync., RCA jack x 1 (Pb)/(Pr) 0.7V(p-p), 75Ω
Audio output(digital audio)	0.5V(p-p), 75Ω, RCA jack X 1/SCART(TO TV) (T571C ONLY)
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 2/ SCART(TO TV) (T571C ONLY)

*Designs and specifications are subject to change without notice.

SECTION 2

CABINET & MAIN CHASSIS

CONTENTS

1. DISASSEMBLY.....2-2

CABINET DISASSEMBLY2-2

CIRCUIT BOARD DISASSEMBLY2-3

2. EXPLODED VIEWS2-4

1. Cabinet and Main Frame Section2-4

2. Packing Accessory Section2-5

DISASSEMBLY

CAUTION BEFORE STARTING SERVICING

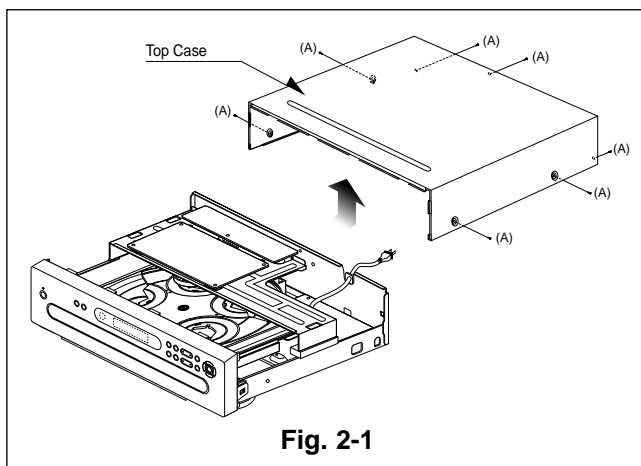
Electronic parts are susceptible to static electricity and may easily be damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded parts and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

CABINET DISASSEMBLY

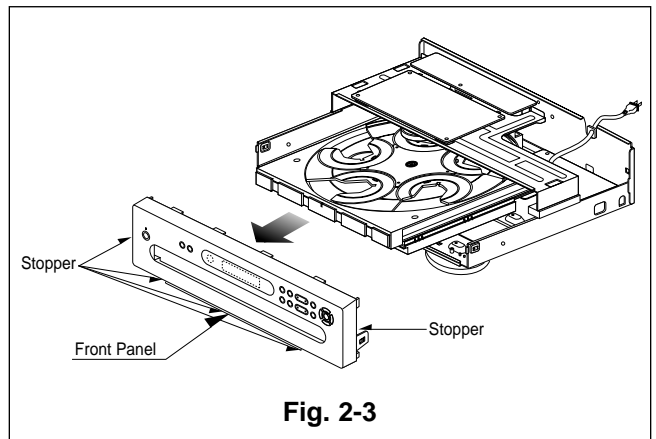
1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow.



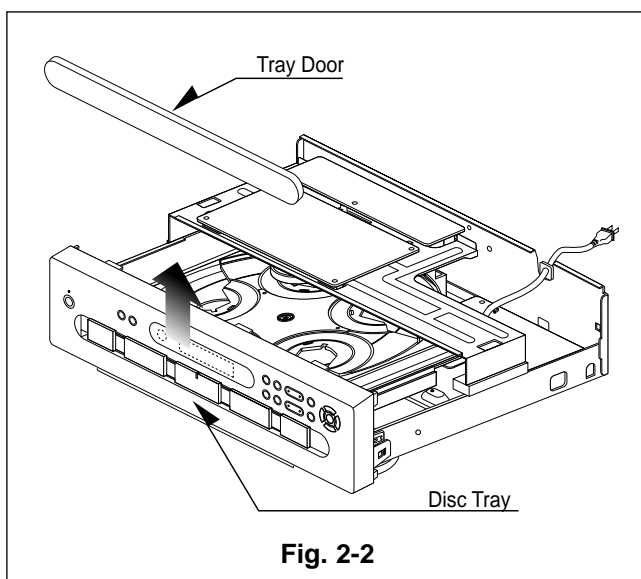
3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Pull the front panel toward you while pressing 5 stoppers to disengage, and remove the front panel. (See Fig. 2-3)



2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.



CIRCUIT BOARD DISASSEMBLY

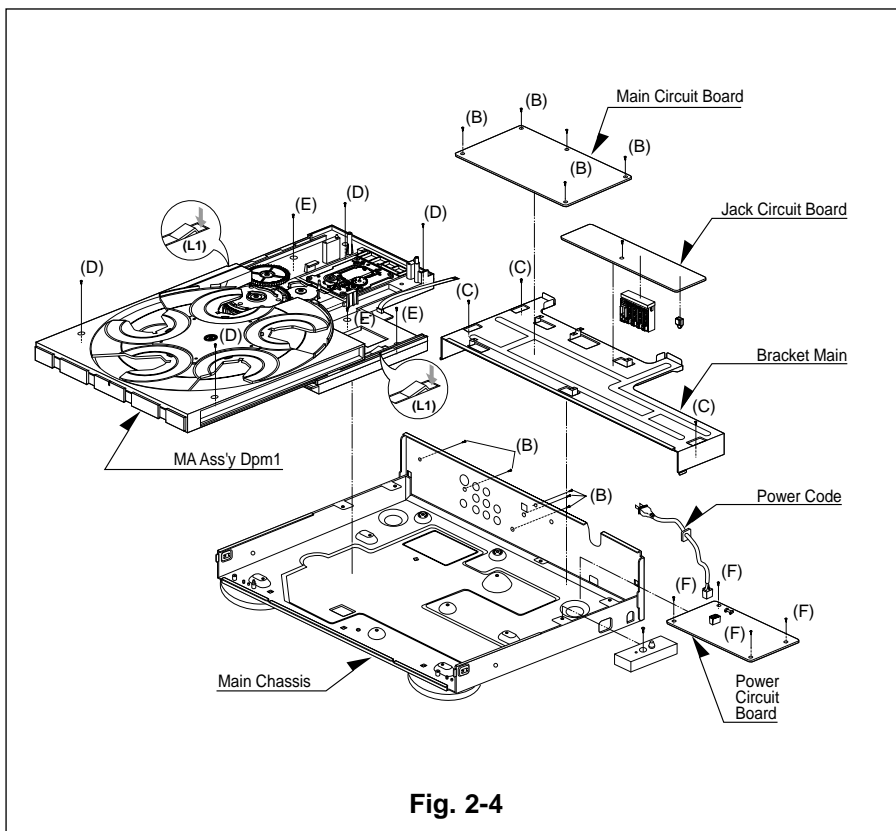
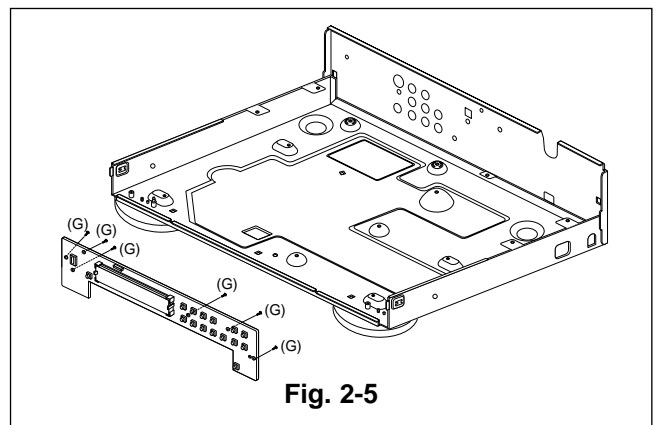
Note: Before removing the main circuit board, be sure to shortcircuit the laserdiode output land.
After replacing the main circuit board, open the land after inserting the flexible connector.
(Refer to Mechanism Disassembly)

1. Disassemble Main circuit board, Jack circuit board, Power circuit board and MD Ass'y DPM1.

1. Remove the top case.(See Fig. 2-1)
2. Remove 10 screws (B).
3. Disassemble Main circuit board and Jack circuit board from Bracket Main.
4. Unscrew 3 screws(C) at Bracket Main.
5. Disassemble Bracket Main from Main chassis.
6. Unscrew 4 screws(D) at MD Ass'y DPM1.
7. Turn the portion the direction of arrow to move the Base Assembly Tray in front of you.
8. Release the other 3 screws(E).
9. Disassemble MD Ass'y DPM1 from Main chassis.
10. Unscrew 4 screws(F) at Power circuit.
11. Disassemble power circuit board from Main chassis.

2. Digitron and Key Circuit Board

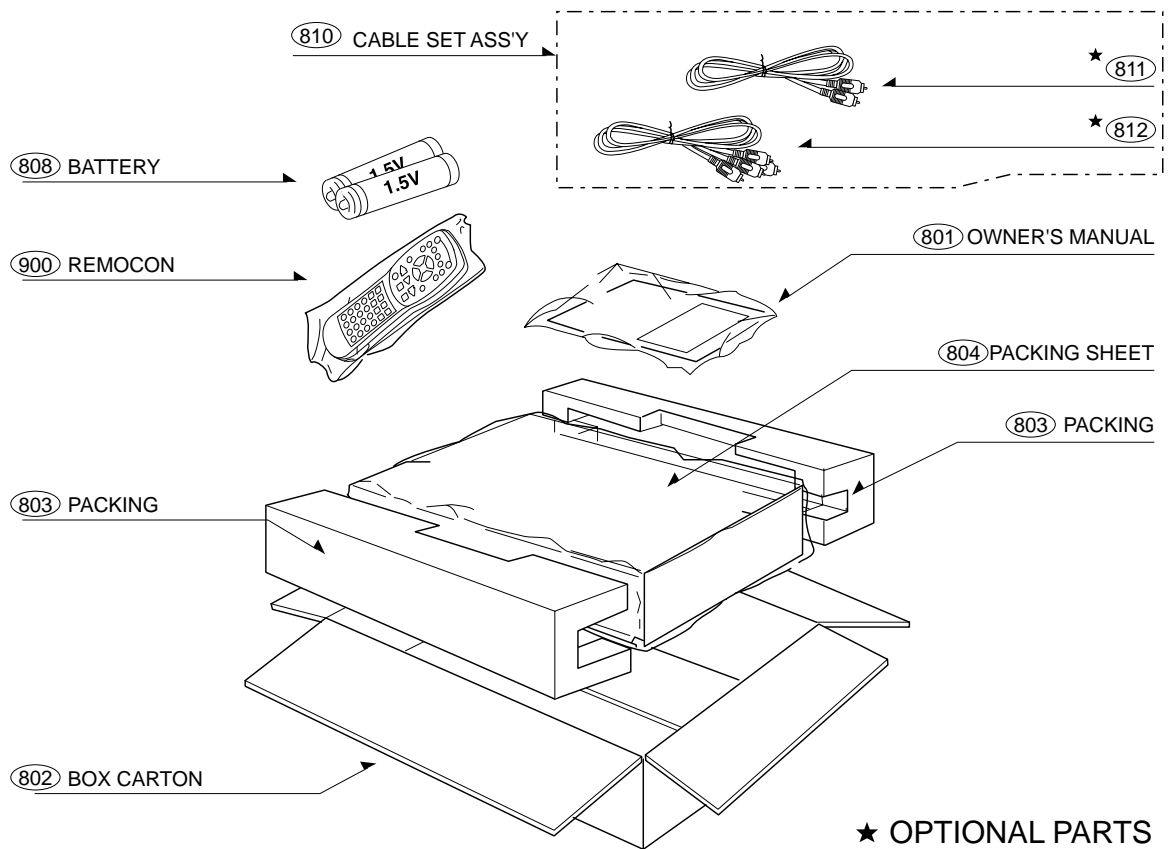
1. Remove the front panel.(See Fig. 2-3)
2. Release 6 screws (G), and remove the digitron circuit board.



1. Cabinet and Main Frame Section



2.Packing Accessory Section



SECTION 3

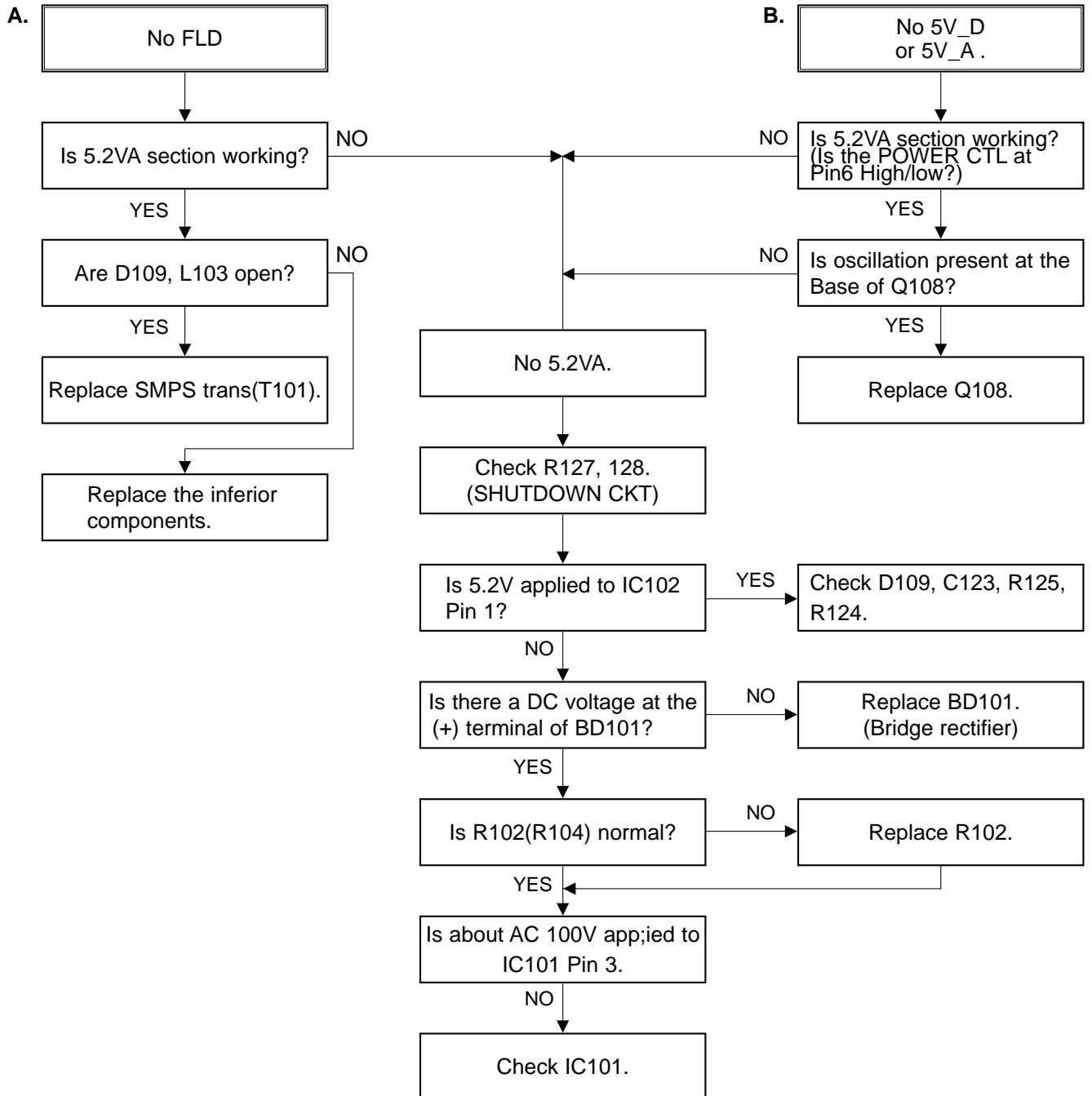
ELECTRICAL

CONTENTS

ELECTRICAL TROUBLESHOOTING GUIDE.....	3-2
1. Power(SMPS) Circuit.....	3-2
2. μ -com Circuit.....	3-3
3. MPEG Circuit.....	3-6
4. Front Circuit(Digitron & Key)	3-7
5. RF/Servo Circuit	3-8
BLOCK DIAGRAMS	3-12
1. Overall Block Diagram	3-12
2. Power (SMPS) Block Diagram.....	3-13
3. RF/CD DSP/DVD DSP/DVD servo Block Diagram	3-14
4. Audio Block Diagram	3-15
5. MPEG Block Diagram.....	3-16
CIRCUIT DIAGRAMS	3-17
1. Power (SMPS) Circuit Diagram	3-17
2. DVD DSP Circuit Diagram	3-19
3. Drive & RF Circuit Diagram	3-21
4. MPEG Circuit Diagram	3-23
• WAVEFORMS	3-25
5. Audio DM & 5.1CH Circuit Diagram	3-27
6. TIMER & Key Circuit Diagram	3-29
7. A/V Circuit Diagram	3-31
8. A/V Jack Circuit Diagram	3-33
9. SCART Circuit Diagram.....	3-35
• CIRCUIT VOLTAGE CHART	3-37
PRINTED CIRCUIT DIAGRAMS	3-41
1. MAIN P.C.BOARD	3-41
2. AV JACK P.C.BOARD.....	3-43
3. SMPS P.C.BOARD	3-44
4. FRONT P.C.BOARD.....	3-43

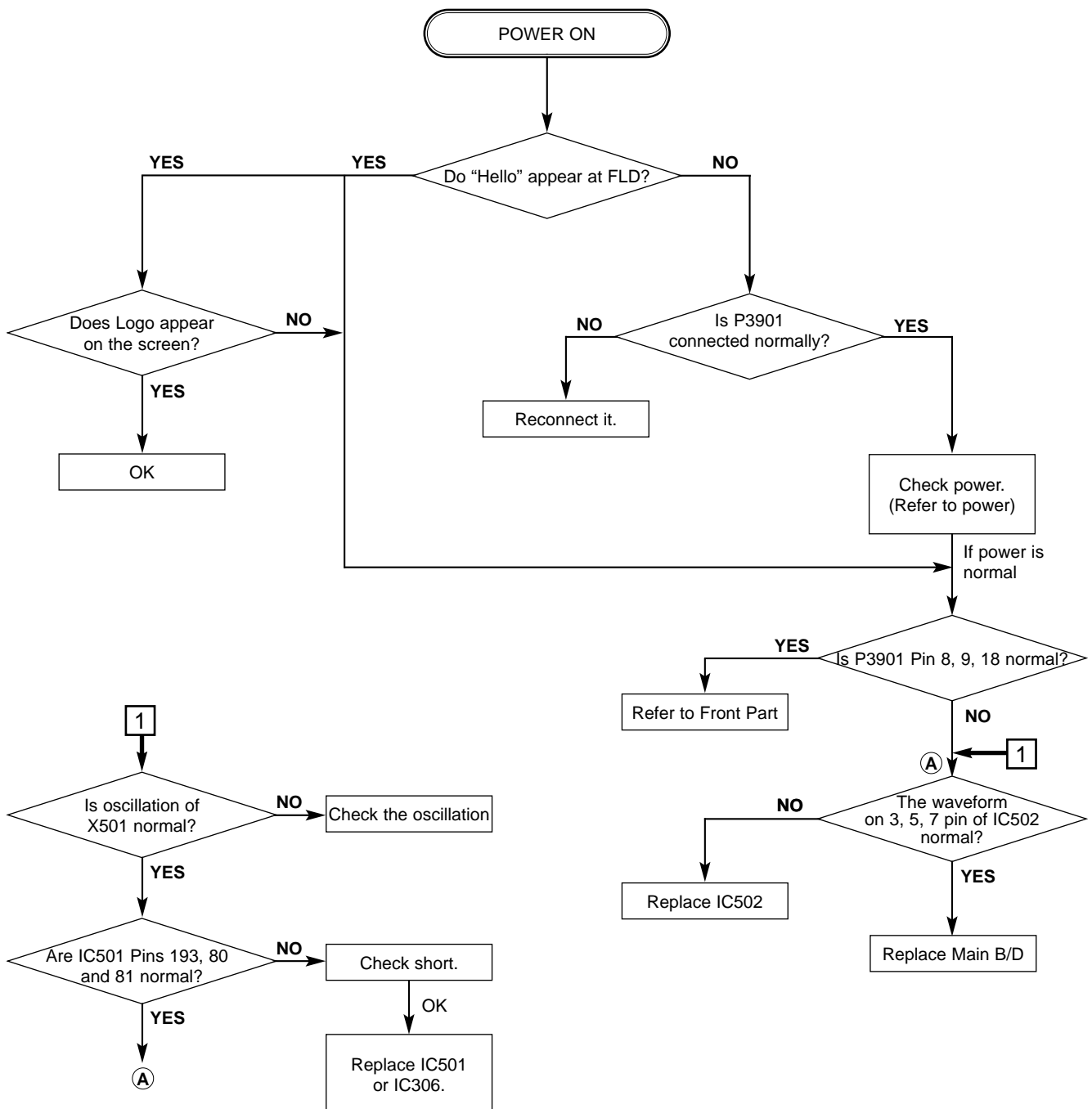
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power(SMPS) Circuit

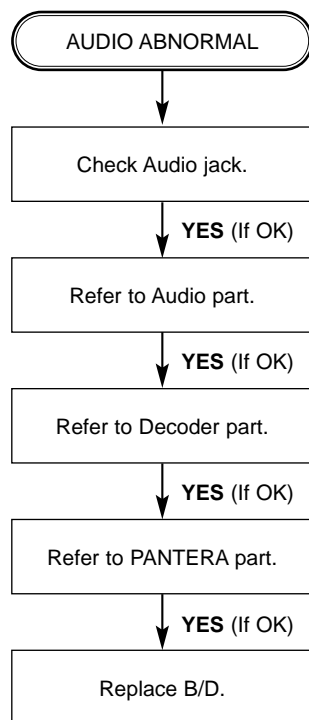


2. μ -COM Circuit

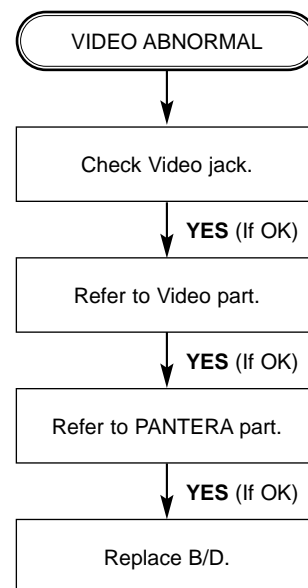
A. No Power



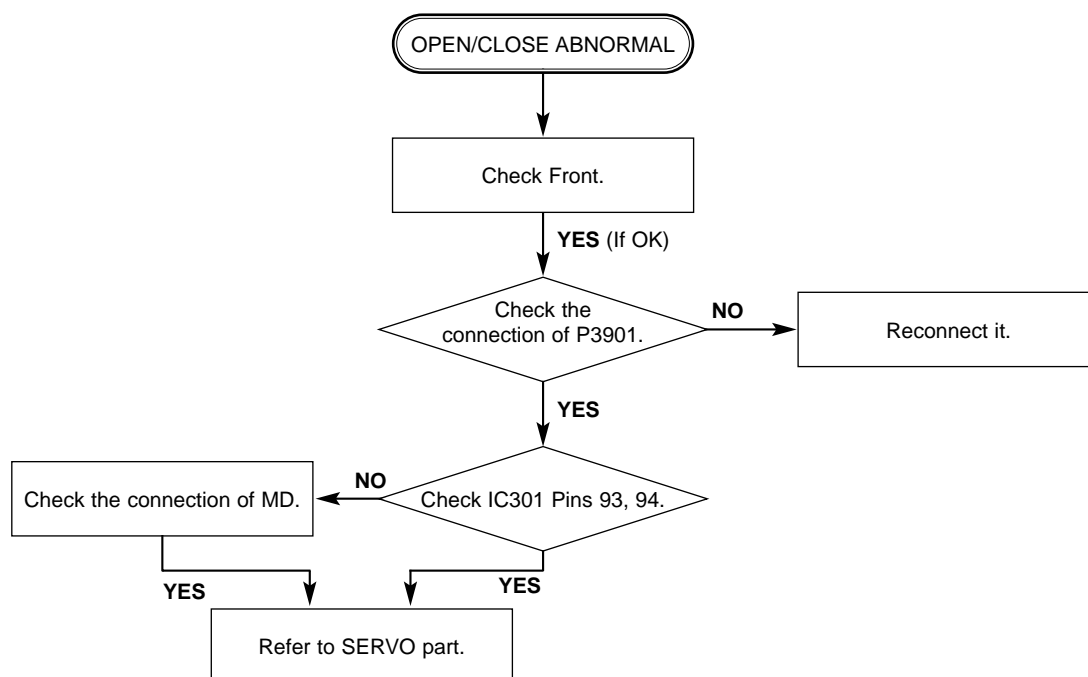
B. Audio abnormal



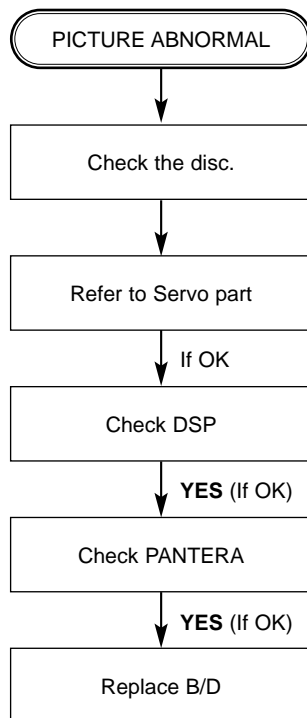
C. Video abnormal



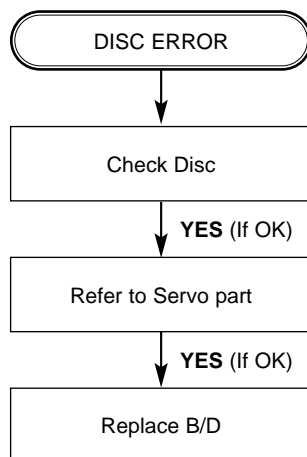
D. Open/Close abnormal



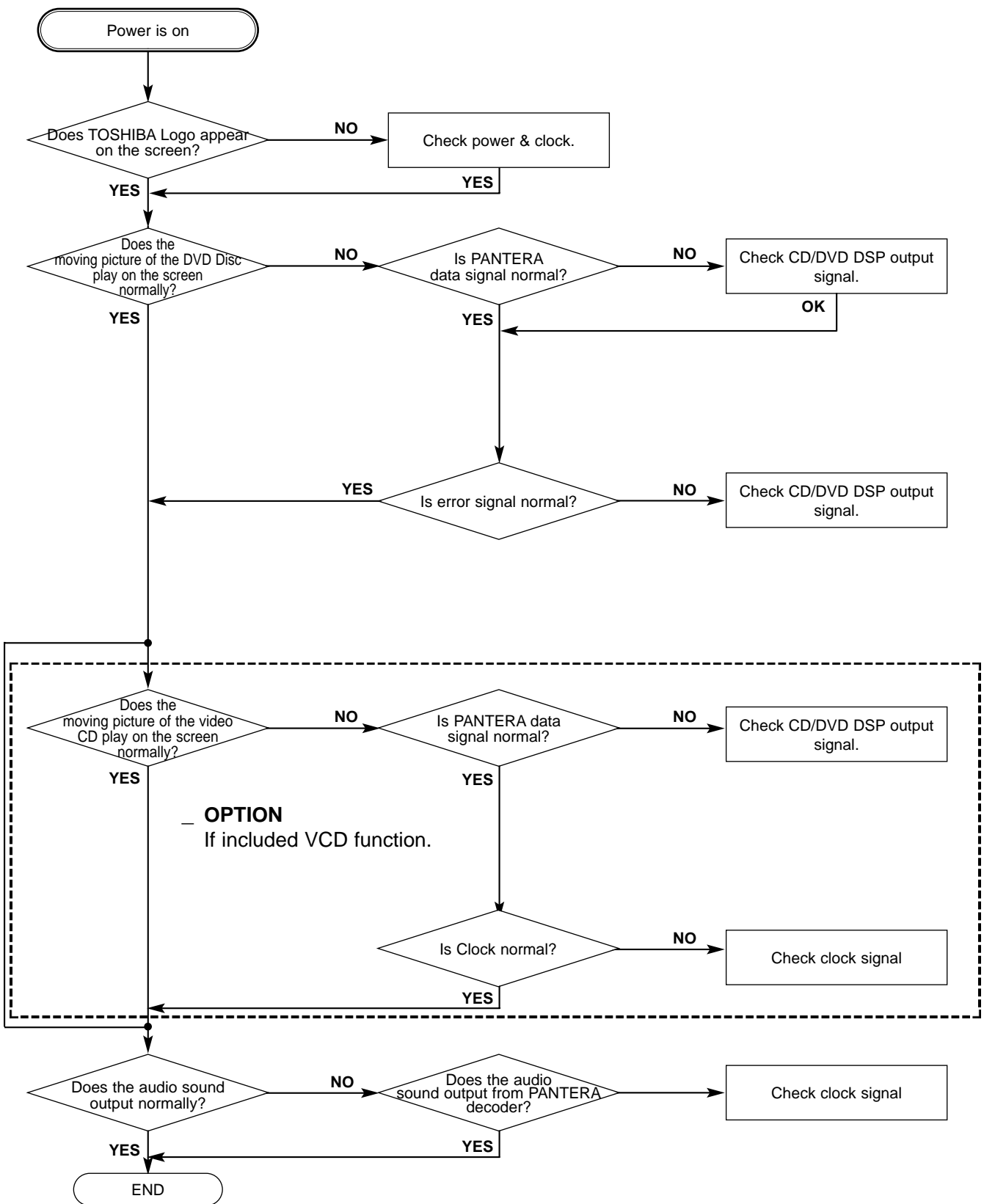
E. Picture abnormal



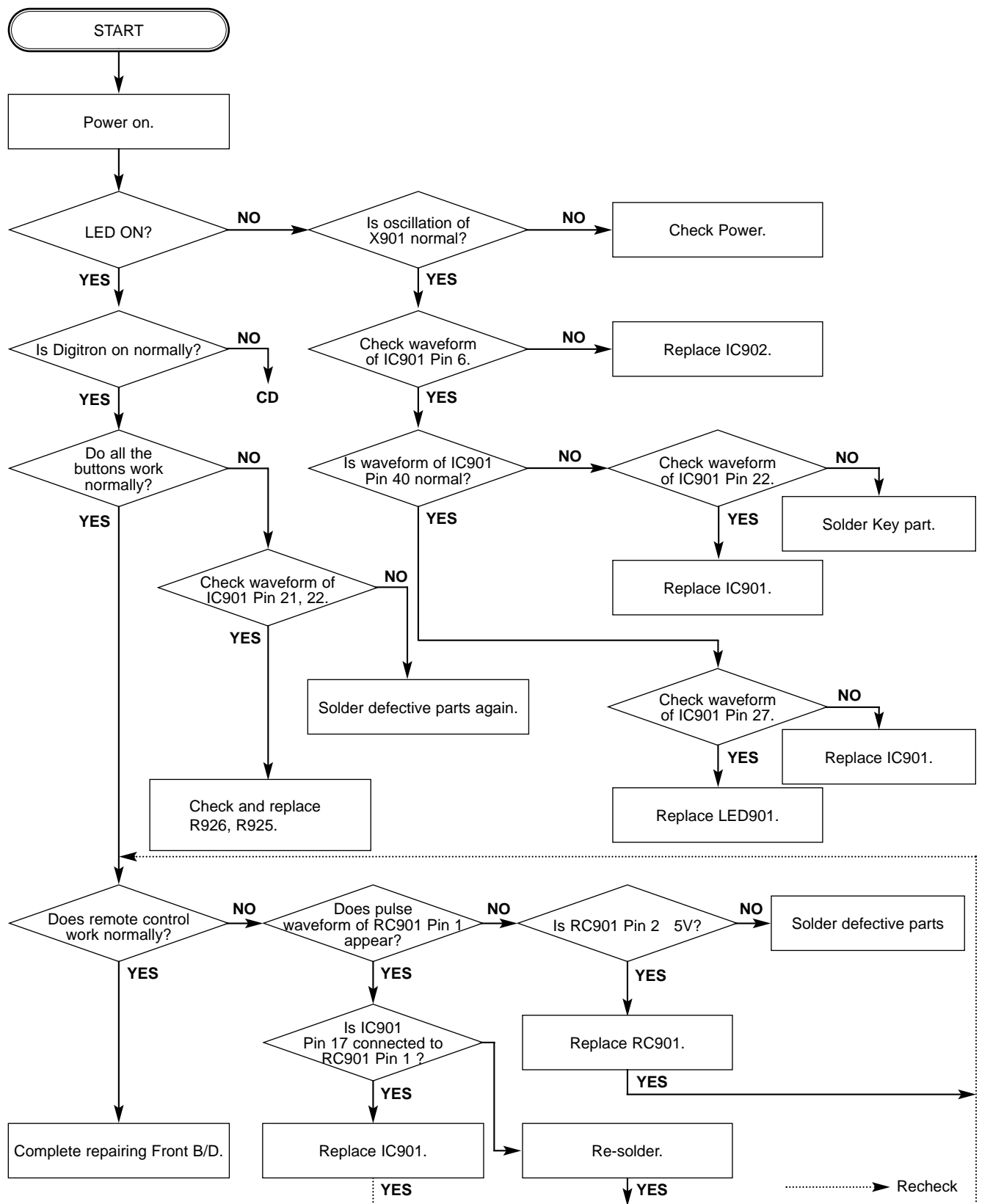
F. Disc Error



3. PANTERA Circuit

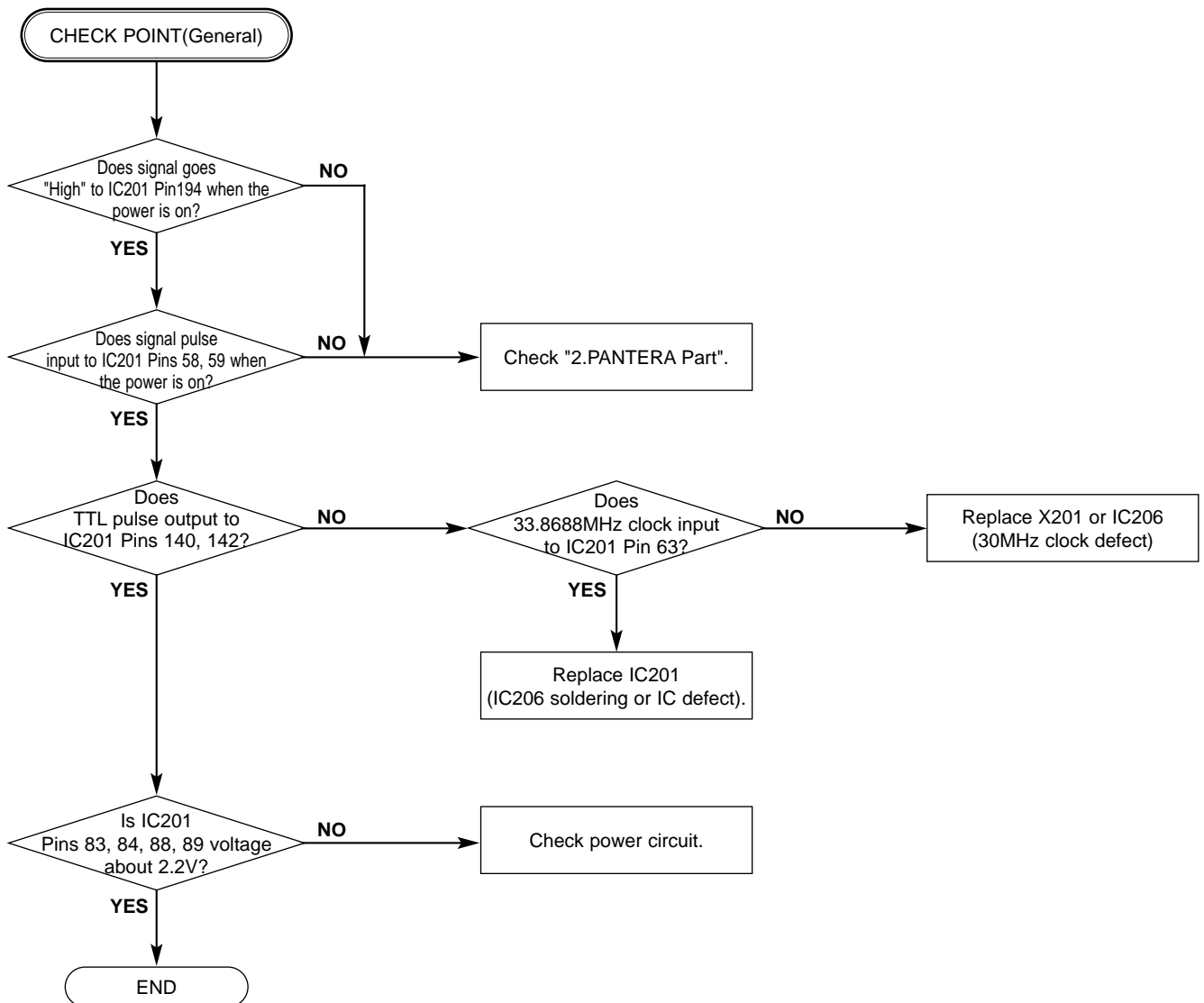


4. Front Circuit (Digitron & key)

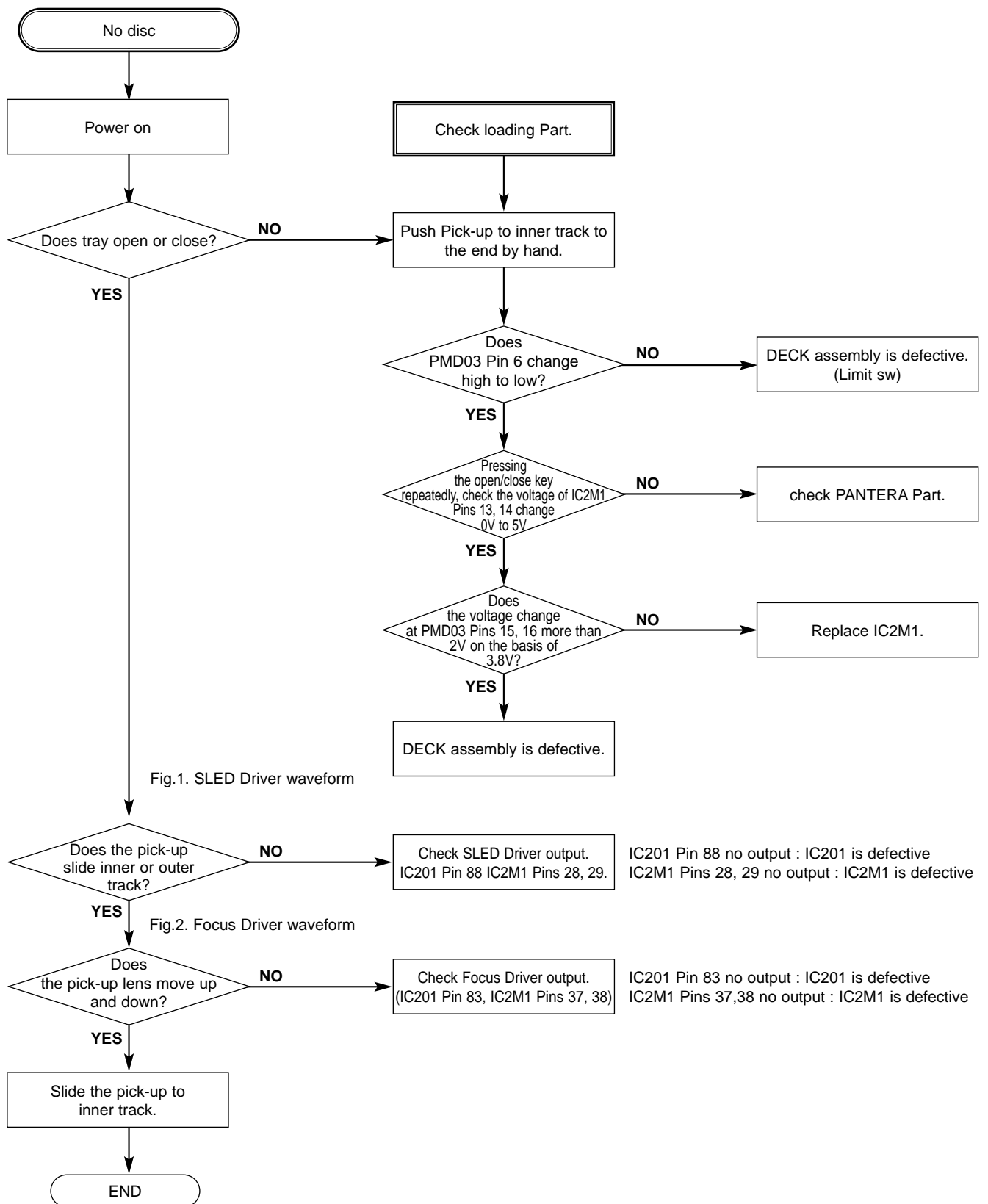


5. RF/Servo Circuit

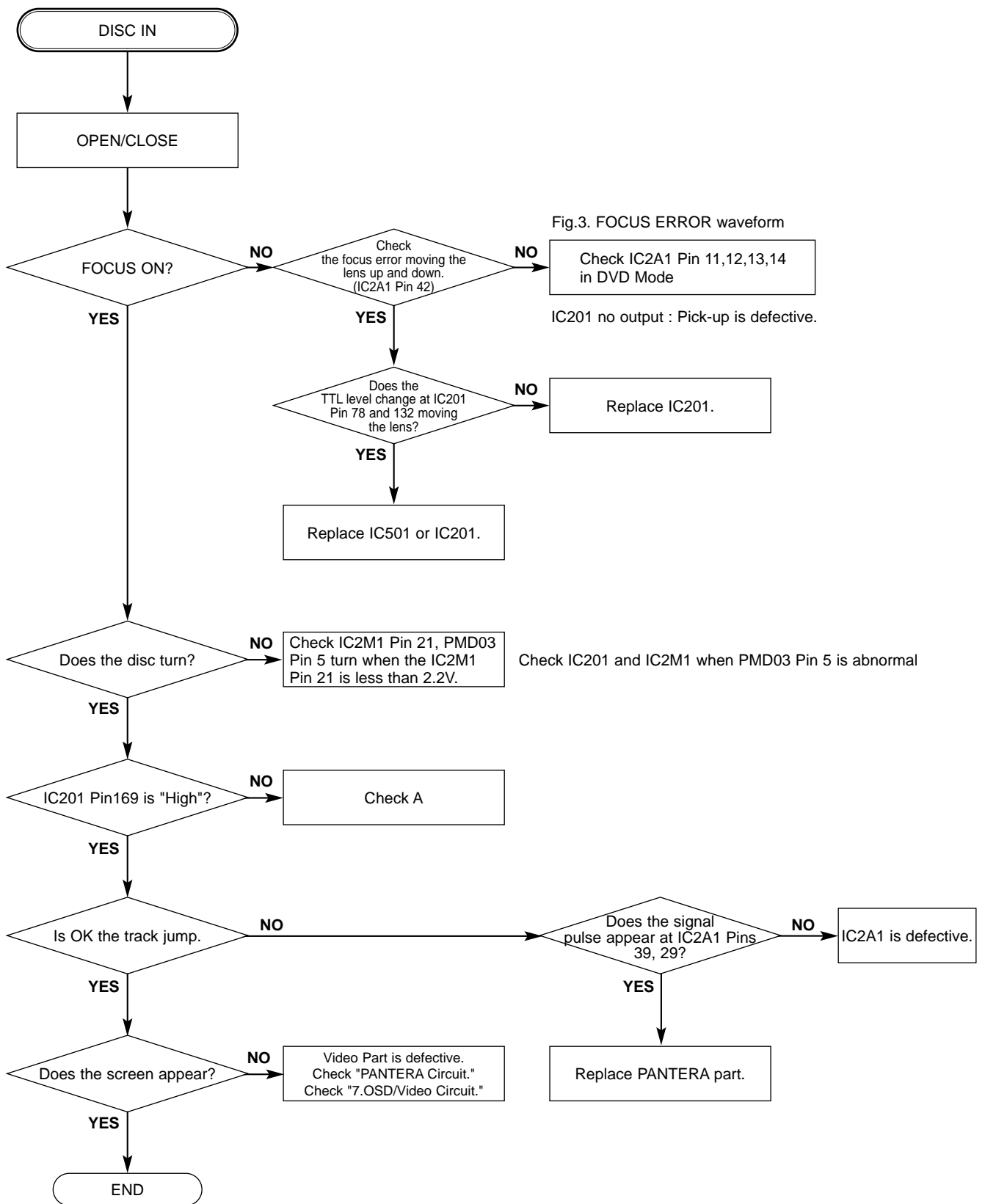
A.



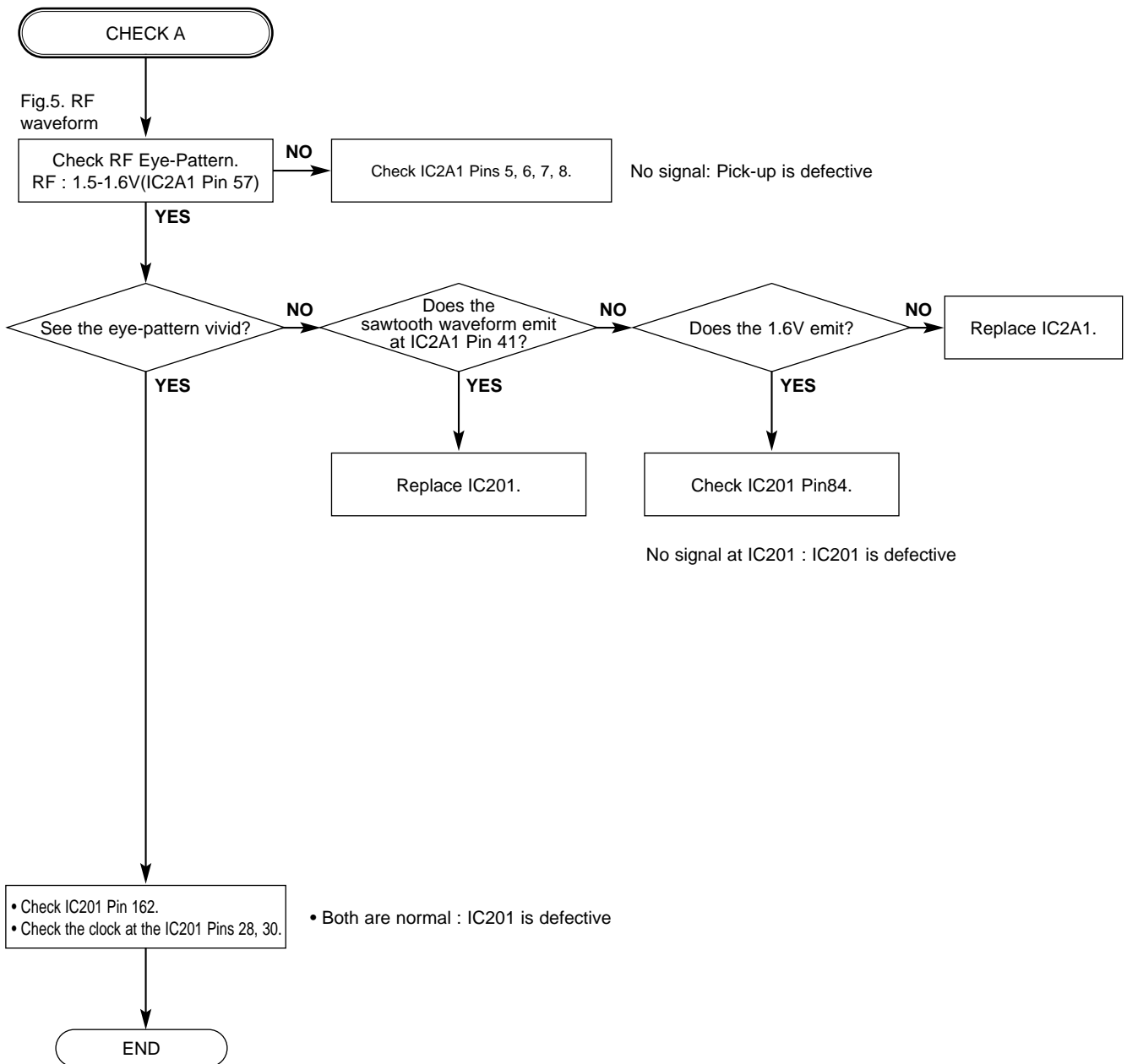
B.



C.

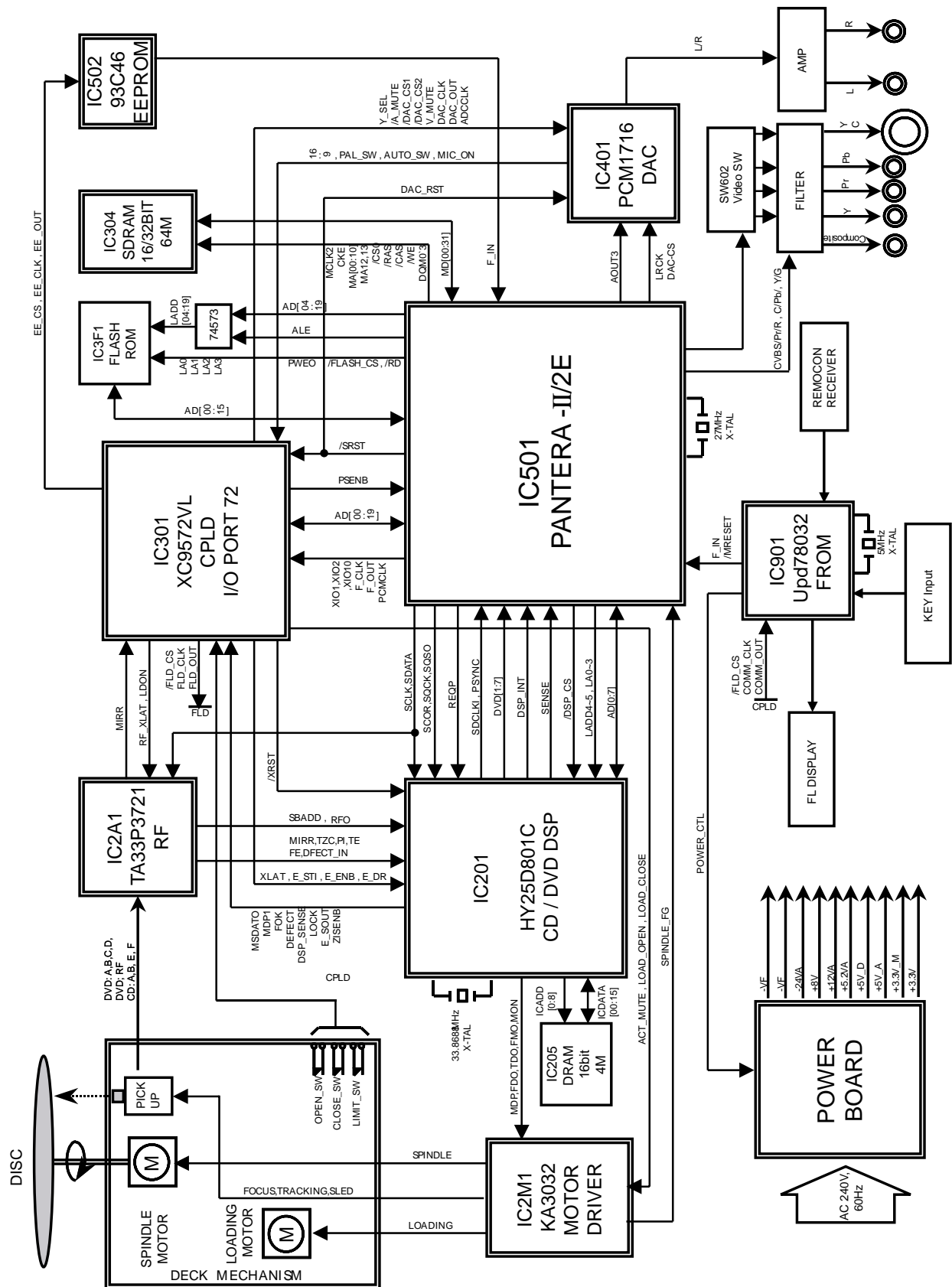


D.

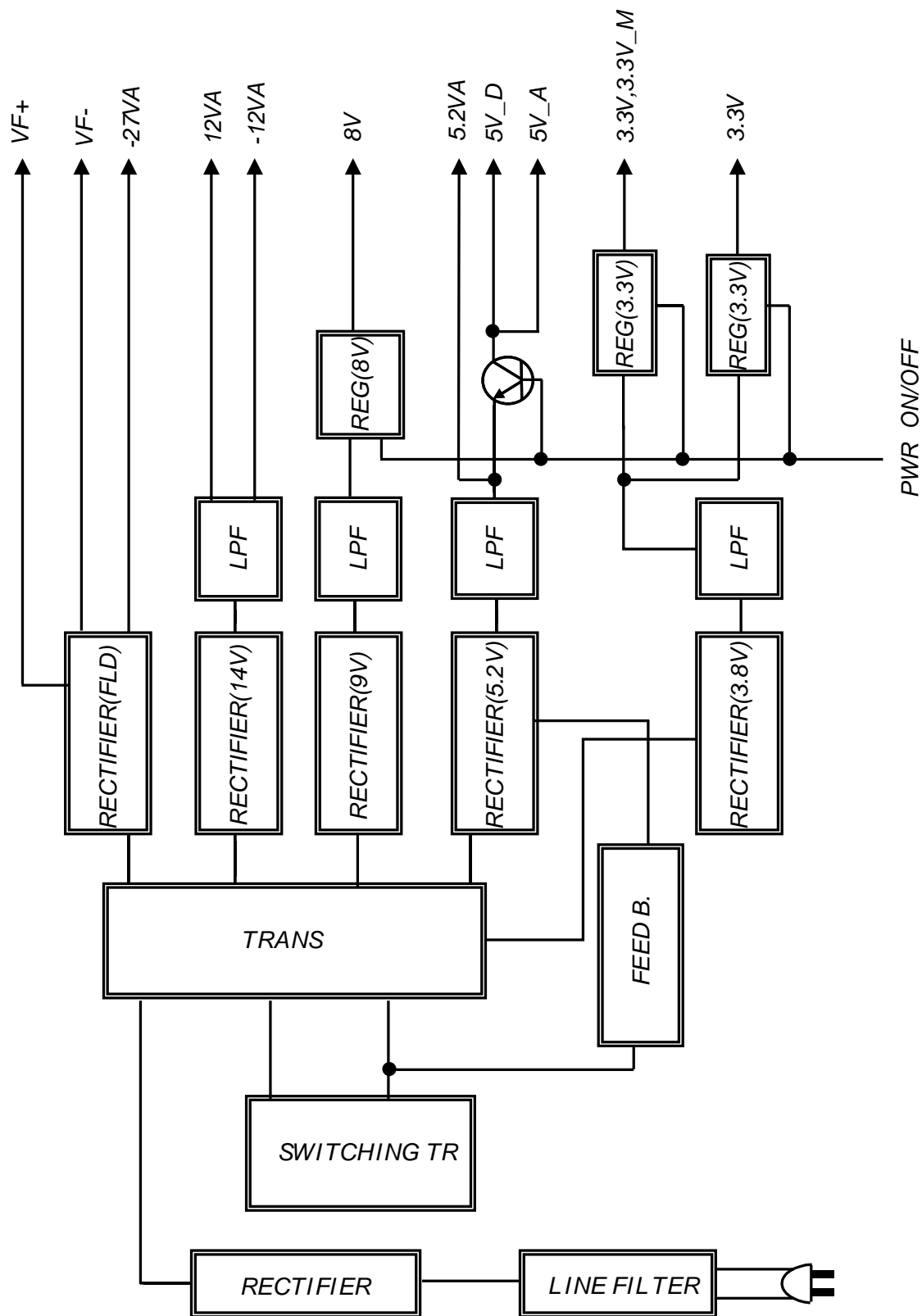


BLOCK DIAGRAMS

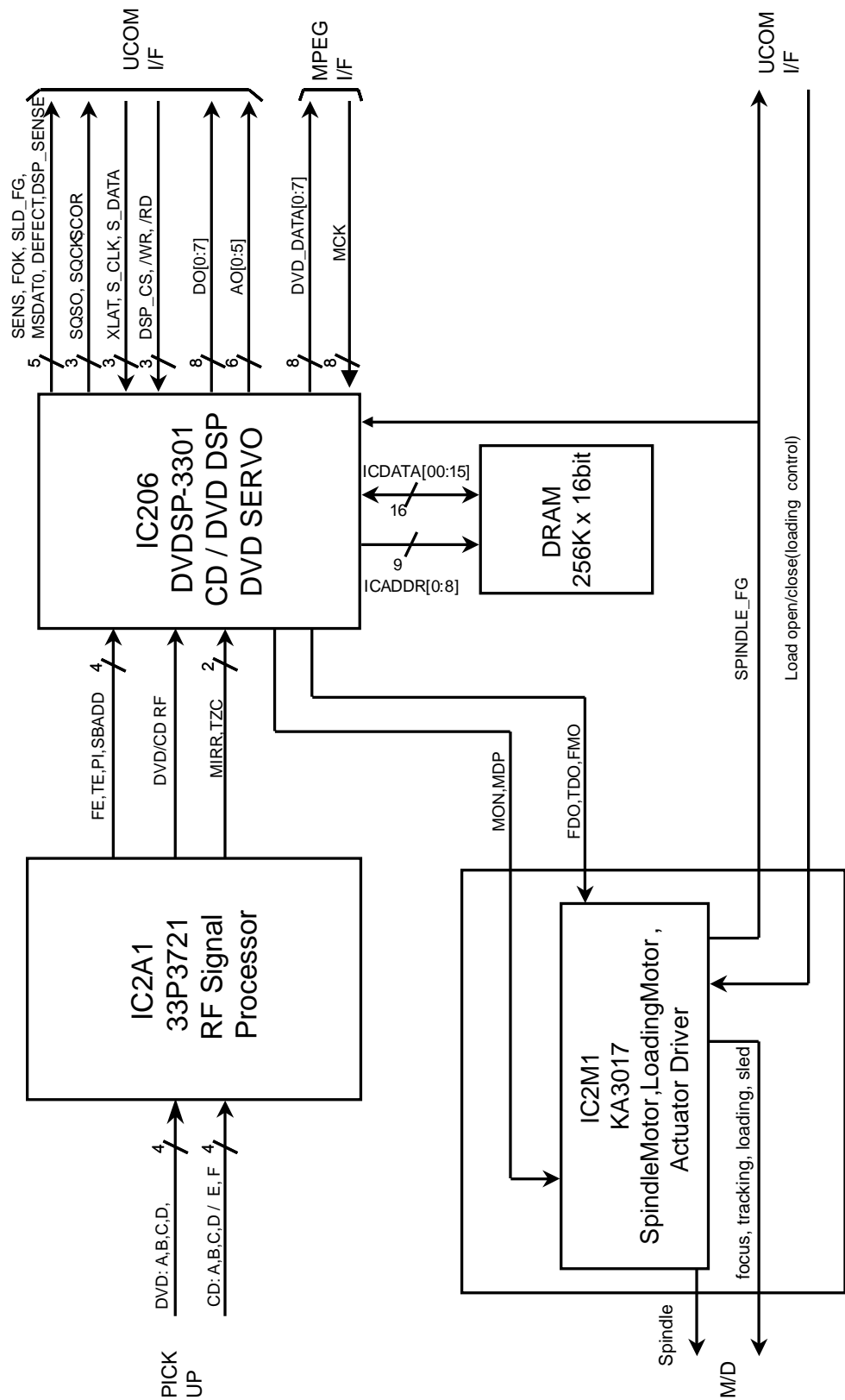
1. Overall Block Diagram



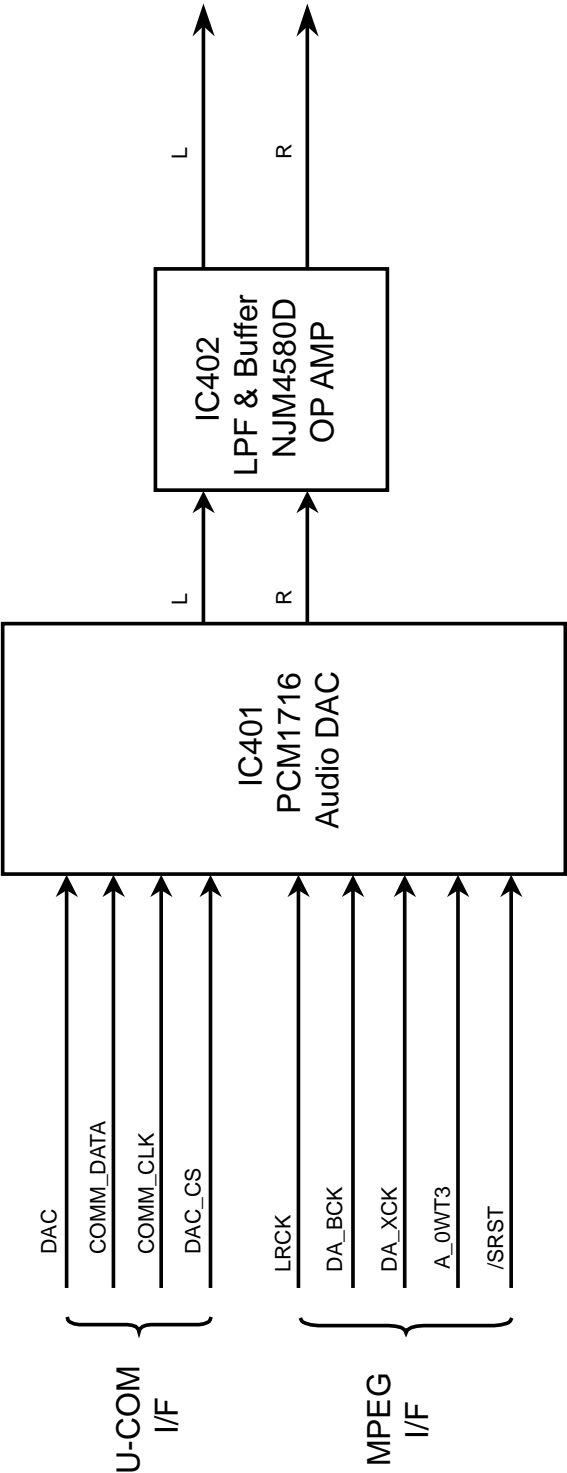
2. Power(SMPS) Block Diagram



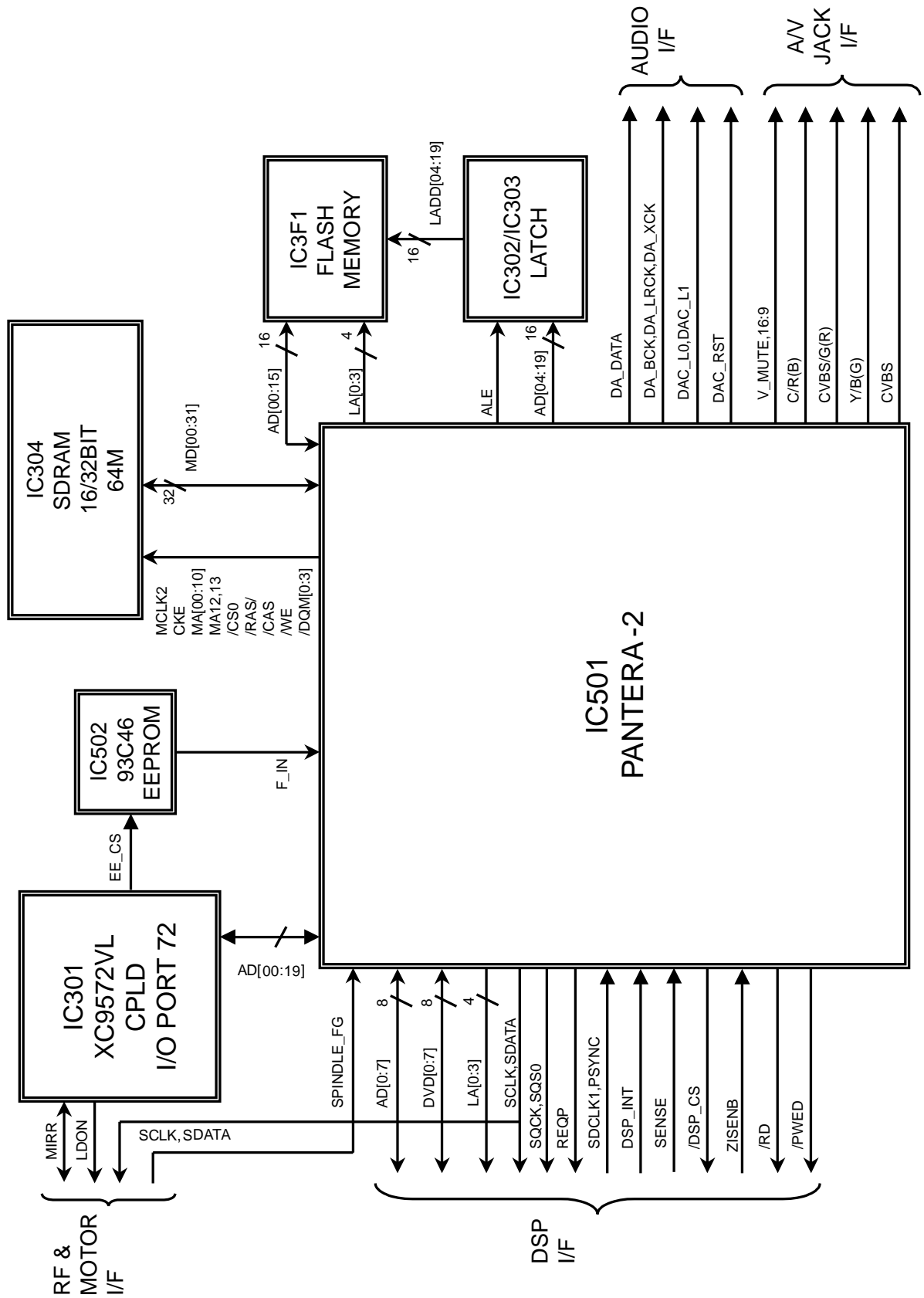
3. RF/CD DSP/DVD DSP/DVD SERVO Block Diagram



4. Audio Block Diagram



5. MPEG Block Diagram





SERVICE MANUAL

SERVICE MANUAL

MODELS : T571C/T571AH

SERVICE MANUAL

**T571C
T571AH**
DVD VIDEO PLAYER

**T571C
T571AH**
DVD VIDEO PLAYER



**T571C
T571AH**
DVD VIDEO PLAYER

© NAD 2001

NAD ELECTRONICS INTERNATIONAL
TORONTO