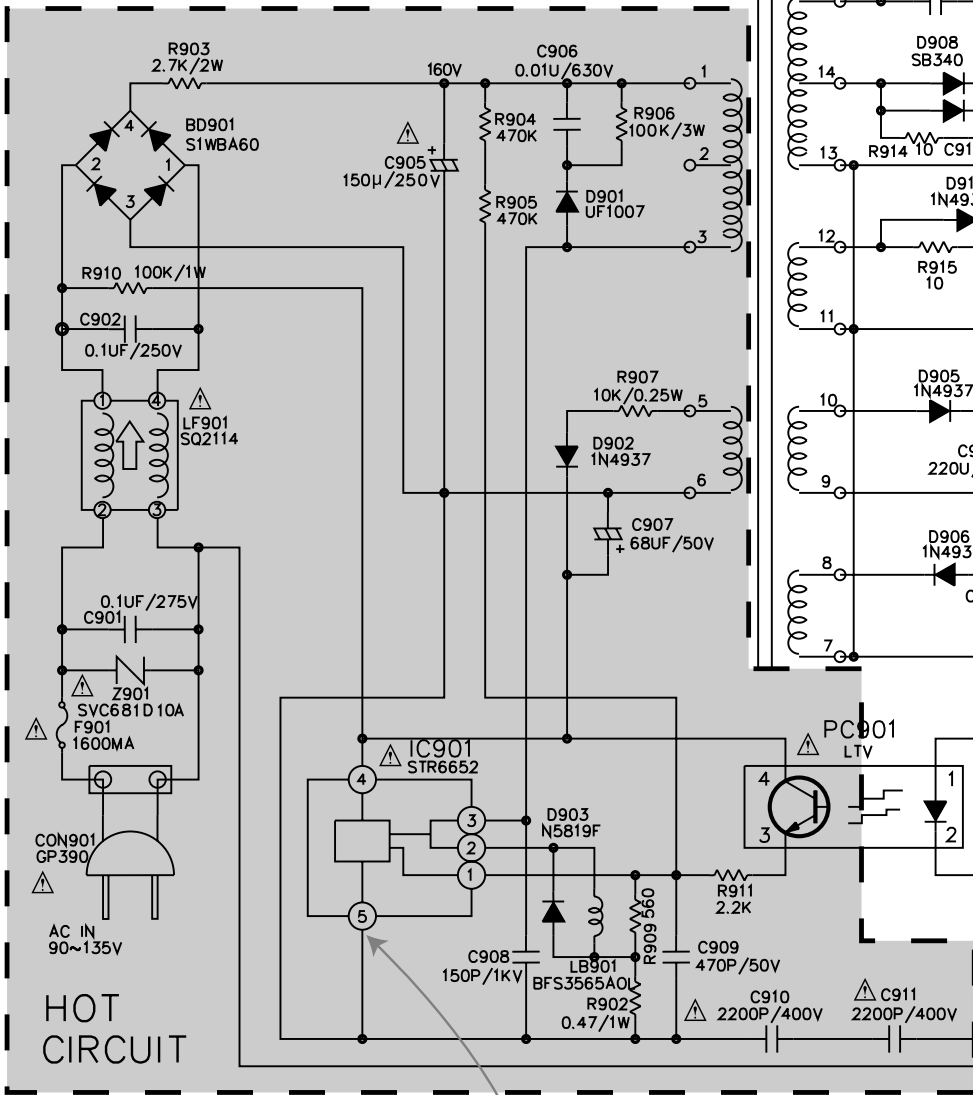
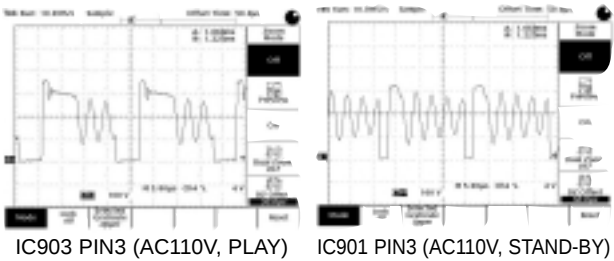


CIRCUIT DIAGRAM

1. POWER(SMPS) CIRCUIT DIAGRAM



IMPORTANT SAFETY NOTICE

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTETED WITHOUT PERMISSION FROM THE ZENITH ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT.

THIS SCHEMATIC FOR EASY IDENTIFICATION. THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

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.

LOCATION GUIDE

BD901	B5	IC905	E2
C901	A3	L902	E6
C902	A4	L903	E5
C903	B3	L904	E5
C904	B3	LB901	C2
C905	B5	LB902	G5
C906	C5	LF901	A4
C907	C4	PC901	D3
C908	C2	PT901	C6
C909	C2	Q901	F4
C910	D2	Q902	F4
C911	D2	Q903	F3
C913	D6	Q904	F2
C914	D5	Q908	F5
C915	D5	Q909	F4
C916	D4	R901	B4
C917	D3	R902	C2
C918	E6	R903	A5
C919	E5	R904	C5
C920	E4	R905	C5
C921	E6	R906	C5
C922	E5	R907	C4
C923	E4	R909	C2
C924	G6	R910	A4
C925	G5	R911	C2
C926	G4	R913	D6
C927	E2	R914	D5
C934	E3	R915	D5
CON901	A2	R917	E3
CON902	H6	R918	E2
CON903	H3	R921	E3
CON904	H4	R922	E2
D901	C5	R923	F6
D902	C4	R924	F4
D903	C3	R926	G2
D905	D4	R928	F5
D906	D4	R929	F3
D907	D6	R930	F3
D908	D5	R931	G5
D909	D5	R932	F5
D910	D5	R933	E3
D913	F4	R938	H4
F901	A3	Z901	A3
F902	G5	ZD901	D4
IC901	B3	ZD902	E3
IC902	F6		

NOTES) ⚠ Warning Parts that are shaded are critical With respect to risk of fire or electrical shock.

IC902 is defective.
8V Power Line dead.

Q908, R928, D913 and Q909 are defective.
5V Power Line dead.

IC901 is defective.
Power dead.

C927, R918, R922 and
IC905 are defective.
Power dead.

Q903, Q904 are defective.
Power control is abnormal.

Q901 and Q902 are defective.
FLD(+), FLD(-) are dead.

'99 04.01 SI2050
SMPS

This is a detailed circuit board diagram for a DVD player, showing various components, their connections, and test points. The diagram is organized into several main sections:

- Top Section:** Contains the DVD player's main control and signal processing components, including IC201 (TA1254F), IC204 (TTC Mirr. Generator), and IC205 (GM71C4260CJ). It also shows the DVD player's input/output connectors (CON201, CON202) and the DVD player's power supply section (3.3V Regulator).
- Bottom Section:** Contains the digital servo and CD decoder components, including IC206 (DVDSP3301) and IC219 (Servo). It also shows the DVD player's output connectors (CON203, CON204) and the DVD player's power supply section (3.3V Regulator).
- Right Section:** Contains the DVD player's output and control components, including the AD Converter Error section and the AD Ref. Voltage Gen section.

The diagram includes numerous callouts and notes indicating specific components and their functions, such as:

- Q202 is defective. DVD LD will not be on.**
- Q203 is defective CD LD will not be on**
- IC204 is defective being slipped during search.**
- IC205 is defective Servo will not operate**
- IC403 is defective No Spindle Full Speed**
- AD Converter Error**
- AD Ref. Voltage Gen**

The diagram also includes a legend for the components and their functions:

- T.E.** (Tracking Error)
- R.F.** (RF)
- FOCUS LOOP**
- SPINDLE LOOP**
- F.E.** (Focus Error)
- TRACKING LOOP**
- SLED LOOP**

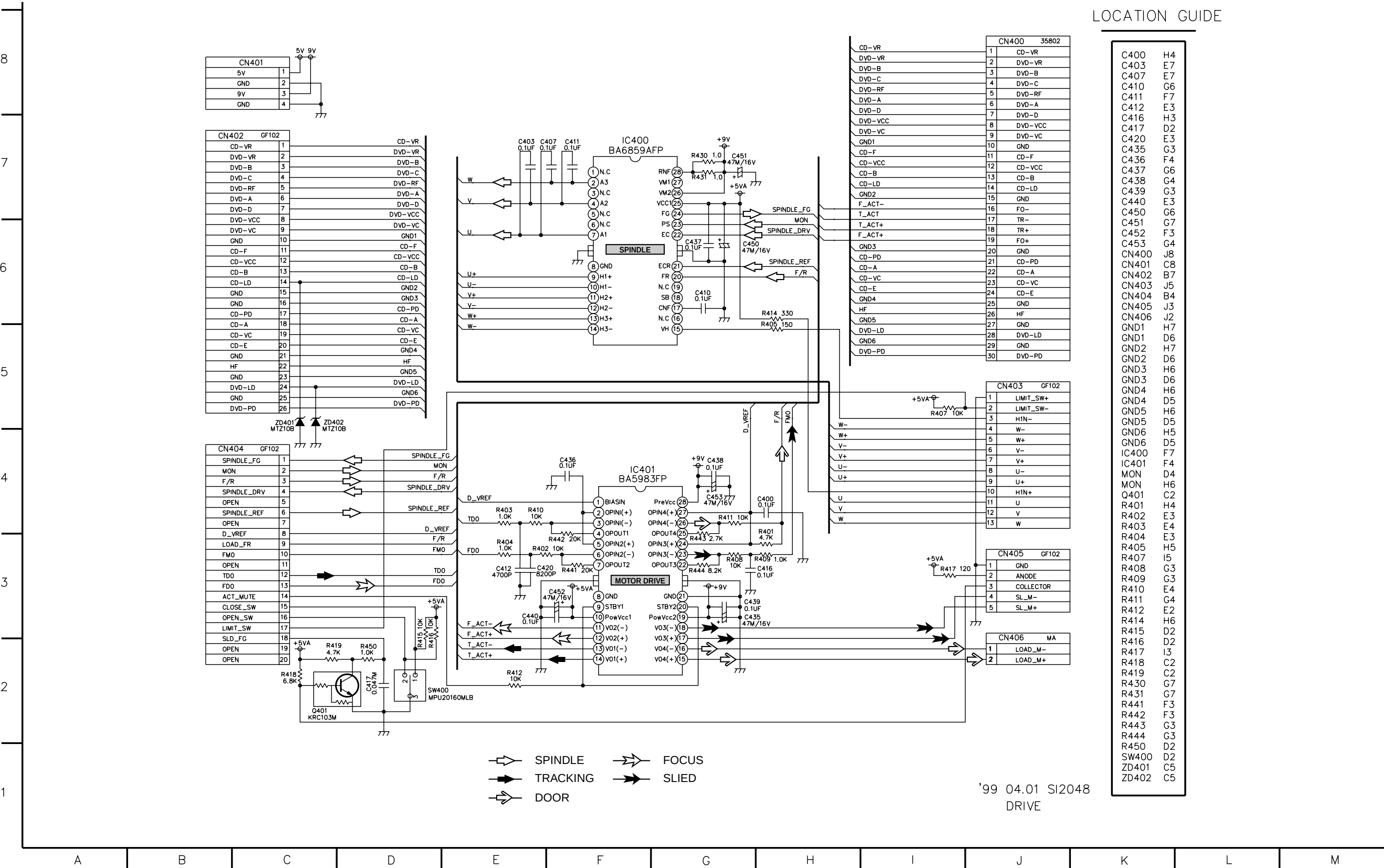
The diagram is a complex schematic showing the internal wiring and connections of the DVD player, including the DVD player's input/output connectors, the DVD player's power supply section, and the DVD player's output and control components.

LOCATION GUIDE			
C201	C11	Q203	D7
C202	C7	Q204	E6
C203	D7	Q205	E6
C204	E7	R201	E10
C205	E8	R202	B11
C206	E8	R203	B11
C207	E8	R204	C11
C208	E8	R205	C11
C209	F8	R206	B11
C210	O4	R207	B10
C211	E10	R208	D7
C212	E10	R209	D8
C213	F9	R210	I10
C214	F8	R211	I10
C215	F8	R212	I10
C216	D7	R213	D7
C217	D8	R214	B10
C218	G8	R215	G7
C219	G7	R217	N11
C220	G7	R221	E6
C221	H5	R222	C7
C223	I5	R223	D7
C224	I4	R224	I10
C225	M3	R225	F10
C226	M4	R226	F9
C227	N3	R227	F8
C228	N3	R228	E11
C229	O3	R229	G9
C230	P6	R230	G9
C231	P6	R231	G9
C233	P7	R232	G8
C234	P8	R233	G8
C235	P8	R234	F8
C236	P8	R235	F8
C237	O10	R236	G7
C238	O1	R237	G7
C239	O10	R238	G7
C240	N11	R239	I3
C241	L10	R240	I3
C242	O11	R241	I3
C243	E11	R242	I3
C244	E7	R243	I3
C245	O1	R244	J3
C246	G8	R245	C10
C247	B8	R252	M3
C252	D3	R253	M3
C253	D2	R254	N3
C254	D3	R255	N3
C255	M3	R256	N3
C256	P9	R257	O3
C257	O8	R258	P5
C258	N3	R259	P6
C259	E6	R260	P6
C411	B5	R261	P6
C412	D5	R262	P6
C413	D4	R263	P6
C414	D6	R264	P6
C415	D5	R265	P6
C201	O11	R266	O6
C202	D7	R268	P7
C203	E10	R269	P7
C204	E7	R270	P7
C205	D7	R271	P7
C206	E7	R274	O11
C207	F8	R275	O11
C208	I5	R276	N11
C209	I4	R277	N11
C210	M3	R278	B3
C211	O3	R279	B3
C212	O9	R280	B3
C213	O11	R281	B3
C214	N11	R282	B3
C215	N10	R283	B3
C216	O3	R284	B3
C218	P10	R285	B3
C219	P8	R286	B3
C220	E3	R287	B2
C221	E3	R288	B2
C223	D2	R289	B2
C224	O10	R290	B2
C225	O4	R291	O10
C226	M3	R293	P9
C228	F10	R294	P9
C229	B10	R295	P8
C230	C7	R296	P8
C404	D4	R297	O8
IC201	E9	R298	F8
IC202	O4	R299	E3
IC205	F5	R300	O4
IC206	L8	R420	D6
IC209	P9	R421	C5
IC219	E3	R422	D5
IC403	D5	R423	D5
L201	B8	R424	D6
L202	C7	R425	E5
L203	N11	R426	E4
L207	O3	R430	I3
L208	E5	R431	J3
L209	D3	R432	J3
L210	D2	R433	J3
L211	O9	R434	B5
Q201	D11	RE021	C2
Q202	B11	RE022	F4

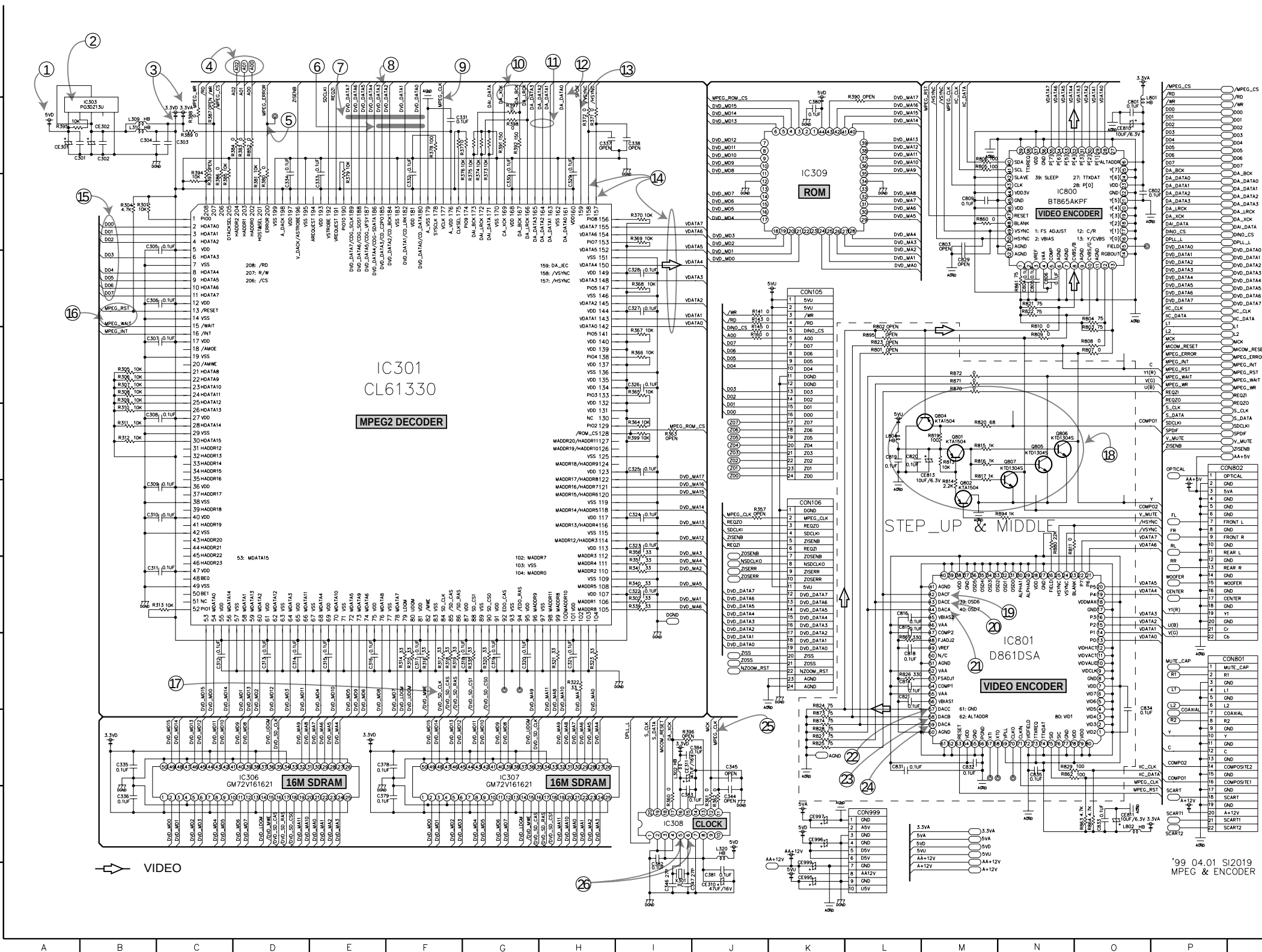
'99 04.01 SI2021
RF & DVD DSP

3. DRIVE CIRCUIT DIAGRAM

LOCATION GUIDE



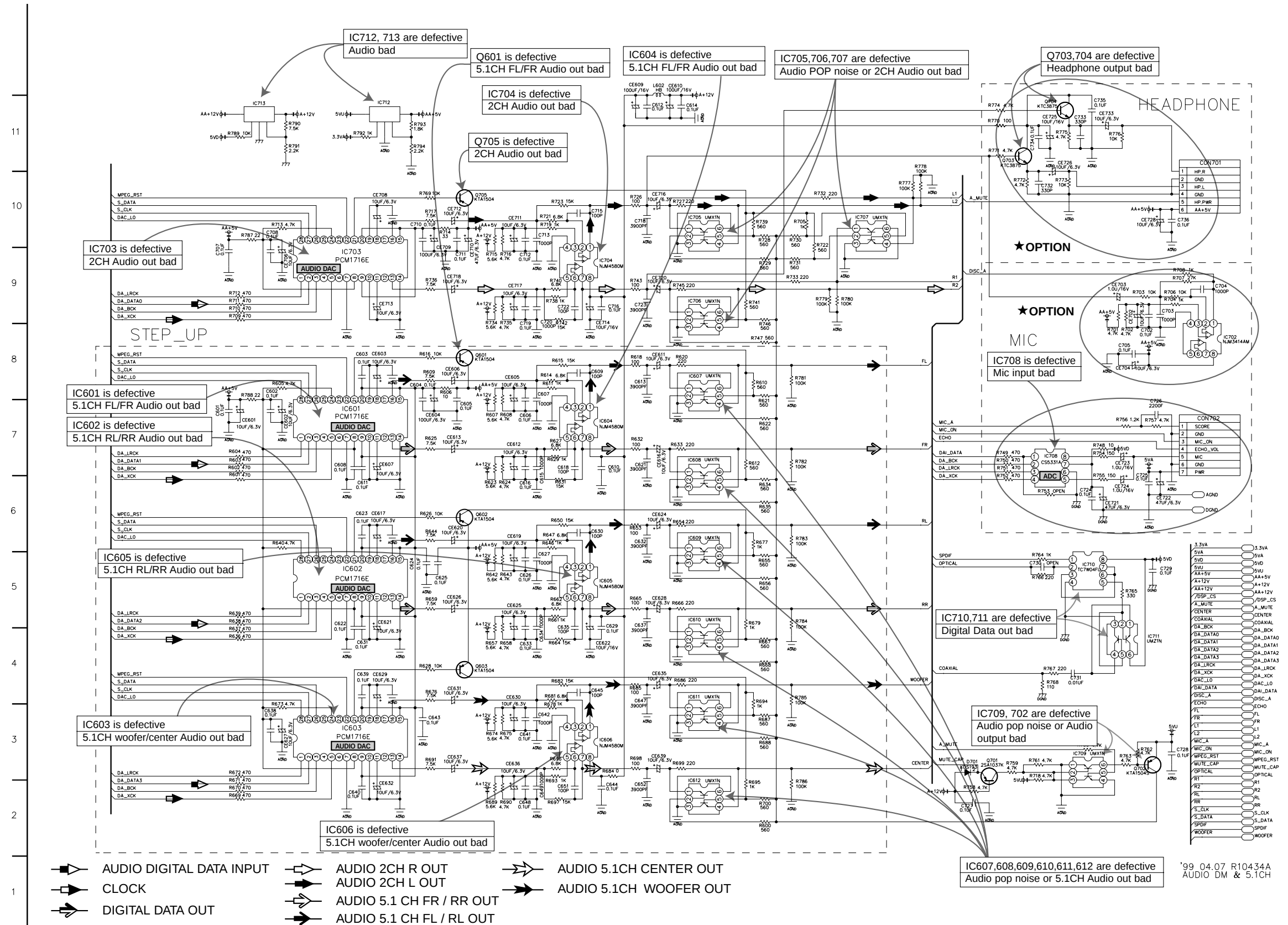
4. MPEG & ENCODER CIRCUIT DIAGRAM



LOCATION GUIDE

C301	A11	IC301	E8	R389	C11
C302	B11	IC303	B11	R390	L11
C303	C11	IC306	D3	R391	G11
C304	B11	IC307	G3	R392	G11
C305	B10	IC308	I2	R393	C10
C306	B9	IC309	K10	R394	C10
C307	B8	IC800	N10	R395	A11
C308	B7	IC801	N4	R396	I3
C309	B6	L309	B11	R397	G11
C310	B6	L310	B11	R398	G11
C311	B5	L320	B11	R399	I7
C312	C4	L801	O11	R801	L8
C313	D4	L802	O2	R802	L8
C314	D4	L804	L7	R803	O8
C315	E4	L805	L7	R804	O9
C316	E4	Q802	M6	R805	M11
C317	F4	Q804	M7	R806	M11
C318	G4	Q805	N7	R807	O8
C319	G4	Q806	N7	R808	O8
C320	G4	Q807	N7	R809	N8
C321	H4	R145	J8	R810	N8
C322	I5	R160	J8	R811	N6
C323	I6	R160	J8	R813	M7
C324	I6	R302	I5	R814	M6
C325	I7	R304	B10	R815	M7
C326	I8	R305	B10	R816	M7
C327	I9	R305	B10	R817	M7
C328	I9	R307	B8	R819	M7
C329	H10	R308	B8	R820	M7
C330	G10	R308	B8	R821	N9
C331	F11	R310	B7	R822	N9
C332	F10	R311	B7	R823	L8
C333	E10	R312	B7	R824	K4
C334	D10	R313	B5	R825	K3
C335	B3	R314	F4	R826	L4
C336	B2	R315	F4	R827	K3
C337	H11	R316	F4	R828	K3
C338	I11	R316	F4	R829	N3
C339	J2	R317	F4	R852	D11
C340	J3	R319	F4	R860	M10
C341	I1	R320	G4	R861	N9
C342	E3	R321	H4	R862	N3
C343	E2	R323	H4	R863	O2
C344	K11	R325	H4	R864	O2
C345	K11	R325	H4	R869	L4
C346	I1	R339	I5	R870	M8
C347	I2	R340	I5	R871	M8
C348	I3	R341	I5	R872	M8
C349	O11	R351	I5	R873	K3
C350	O10	R356	I6	R874	K3
C351	M10	R360	I2	R880	N6
C352	N9	R361	J2	R894	M6
C353	N9	R361	J2	R895	L8
C354	N9	R362	J2	RE021	E11
C355	N9	R362	J2	RE021	J6
C356	N9	R362	J2	RE021	J6
C357	N9	R362	J2	RE021	J6
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C554	N9	R362	J2	RE021	J6
C555	N9	R362	J2	RE021	J6
C556	N9	R362	J2	RE021	J6
C557	N9	R362	J2	RE021	J6
C558	N9	R362	J2	RE021	J6
C559	N9	R362	J2	RE021	J6
C560	N9	R362	J2	RE021	J6
C561	N9	R362	J2	RE021	J6
C562	N9	R362	J2	RE021	J6
C563	N9	R362			

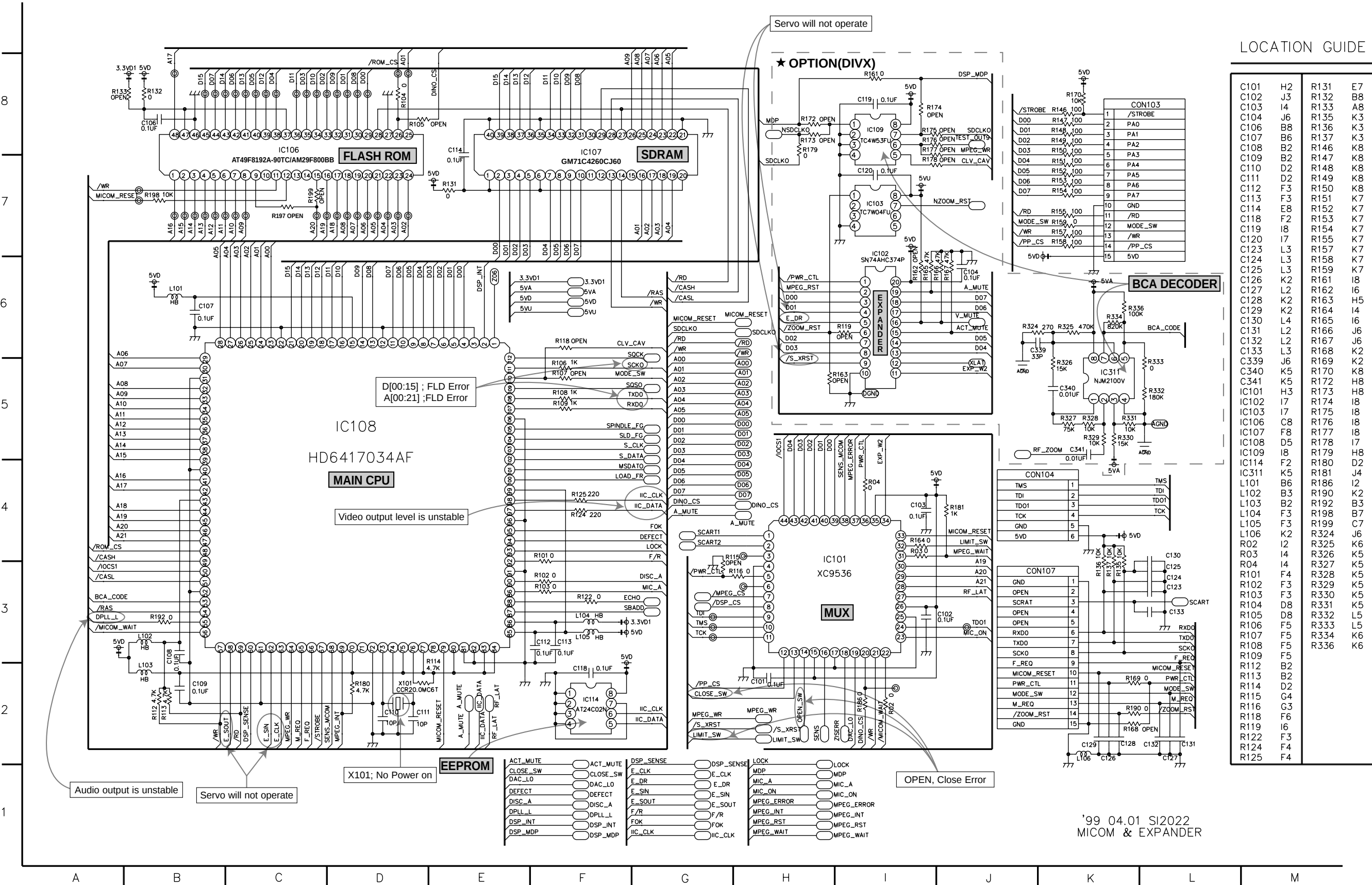
5. AUDIO CIRCUIT DIAGRAM



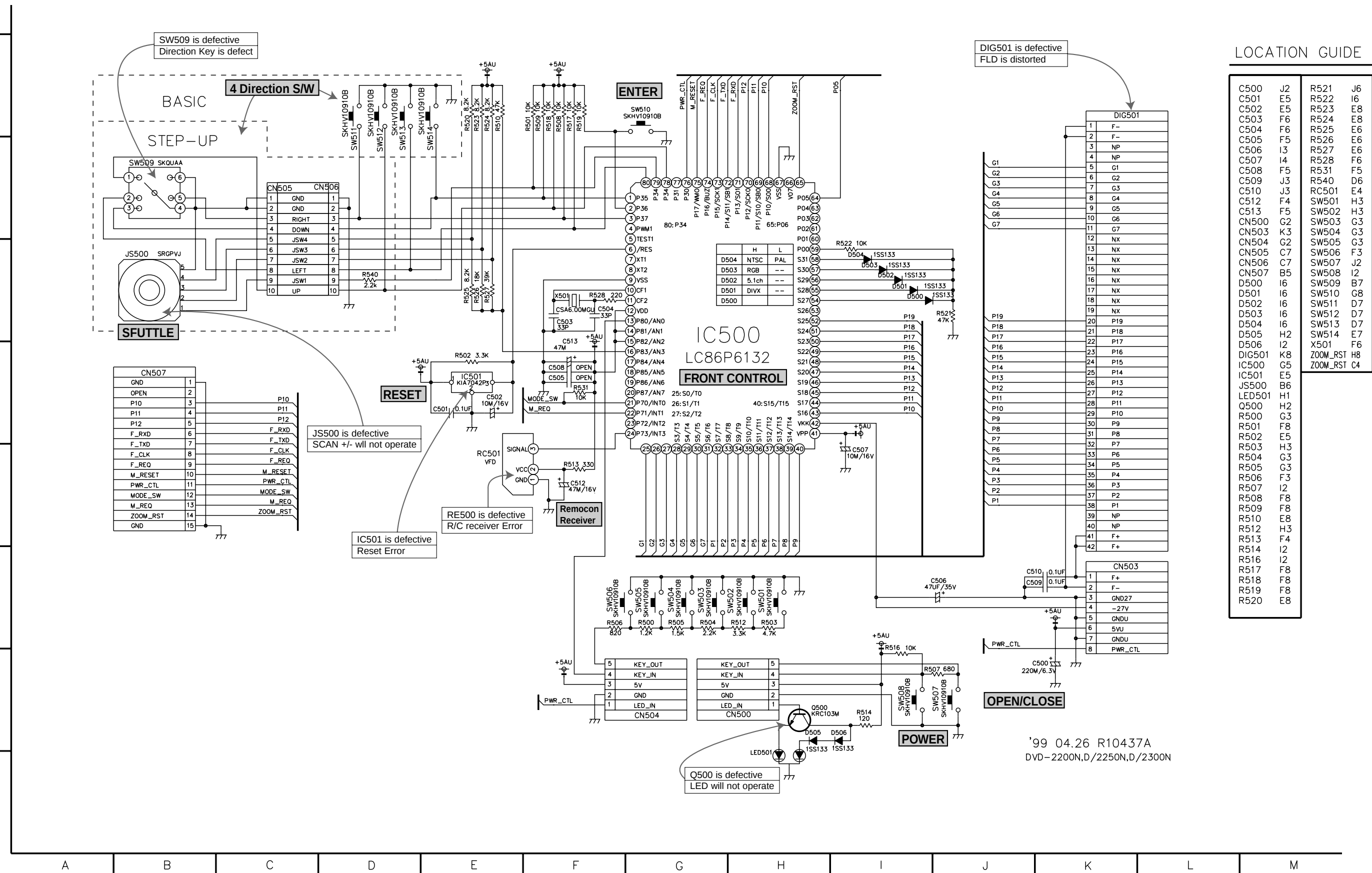
LOCATION GUIDE

C601	C7	CE625	G5	R626	F6	R735	O8
C602	D8	CE626	F5	R627	C7	R736	F9
C603	E8	CE627	D3	R628	A4	R737	G9
C604	F8	CE628	I5	R629	G7	R739	J10
C605	F7	CE629	E4	R631	G6	R740	G9
C606	G7	CE630	G4	R632	H7	R741	J9
C607	H8	CE631	F3	R633	H7	R742	G8
C608	E7	CE632	E2	R634	J6	R743	I9
C609	H8	CE635	I4	R635	J6	R745	I9
C610	H7	CE636	G3	R636	C4	R746	J8
C611	E6	CE637	F3	R637	C4	R747	J8
C612	I11	CE638	I5	R638	G5	R748	O7
C613	H8	CE702	O9	R639	C5	R749	M7
C614	I11	CE703	O9	R640	D6	R750	M7
C615	G6	CE704	O8	R642	G5	R751	M7
C616	G6	CE706	D9	R643	G5	R752	M6
C617	G7	CE707	F9	R644	G6	R753	M2
C621	H7	CE709	F9	R646	G6	R754	O7
C622	E5	CE710	F9	R647	G6	R755	O6
C623	E6	CE711	G10	R650	G6	R756	O7
C624	F5	CE712	G10	R653	H6	R757	O7
C625	F5	CE713	F5	R654	G6	R758	M2
C626	G5	CE714	H8	R655	J5	R759	M3
C627	G5	CE716	I10	R656	J5	R760	N3
C629	H5	CE717	O9	R657	G4	R761	N3
C630	H6	CE718	F9	R658	G4	R762	O3
C631	E4	CE720	I9	R659	J5	R763	O3
C632	H6	CE721	O6	R661	G5	R764	N5
C633	G4	CE722	O6	R662	G5	R765	O5
C634	G4	CE723	O7	R664	G4	R766	N5
C635	G4	CE724	O6	R665	H5	R767	N4
C636	H5	CE725	I11	R666	G4	R768	N4
C638	D3	CE726	N11	R667	J4	R769	F10
C639	E4	CE728	O10	R668	J4	R770	M11
C640	E2	CE733	O11	R669	C2	R771	M11
C641	G3	CON701	I11	R670	C2	R772	M10
C642	G3	CON702	F7	R671	O2	R773	O10
C643	F3	D701	M3	R672	C3	R774	M11
C644	H2	IG601	E7	R673	D3	R775	N11
C645	H4	IG602	E5	R674	G3	R776	O11
C646	H4	IG603	E5	R675	G3	R777	L10
C648	G2	IG604	H7	R676	G4	R778	L11
C649	G2	IG605	H5	R677	J6	R779	K9
C651	G2	IG606	H3	R678	G6	R780	K9
C652	H2	IG607	H8	R679	J5	R781	K8
C653	G2	IG608	I7	R680	G4	R782	K7
C654	G2	IG609	I6	R682	G4	R783	K6
C704	P9	IG610	I5	R684	H3	R784	K5
C705	O8	IG611	I4	R685	H4	R785	K4
C707	O9	IG612	I2	R686	I4	R786	K2
C708	D10	IG613	P8	R687	G3	R787	C10
C710	F10	IG617	E9	R688	J3	R788	O8
C711	F9	IG704	H9	R689	G2	R789	C11
C712	G9	IG705	I10	R690	G2	R790	D11
C713	G10	IG706	I9	R691	G3	R791	D11
C714	H10	IG707	P8	R693	F4	R792	E11
C716	H9	IG708	N7	R694	I4	R793	F11
C718	H10	IG709	N3	R695	I2	R794	F11
C719	G8	IG710	N5	R696	G3		
C720	G9	IG711	O4	R697	G2		
C722	G9	IG712	I2	R698	I3		
C723	H9	IG713	C11	R699	I3		
C724	N6	L602	I12	R700	J2		
C725	O6	O601	F8	R701	O8		
C726	O7	O602	F6	R702	O8		
C727	M2	O603	F3	R703	O9		
C728	P3	O701	M3	R704	O9		
C729	O5	O702	O3	R705	K10		
C730	N5	O703	M11	R706	O9		
C731	N4	O704	N11	R707	O9		
C732	N10	O705	O10	R708	P9		
C733	N11	R600	J2	R709	C9		
C734	N11	R601	C6	R710	C9		
C735	O11	R602	C7	R711	C9		
C736	O10	R603	C7	R712	C9		
C6501	C7	R604	F7	R713	F10		
CE602	D7	R605	D8	R714	G9		
CE603	E8	R606	F8	R715	G9		
CE604	F7	R607	G7	R716	G9		
CE605	H8	R608	G7	R717	F10		
CE606	F8	R609	H8	R718	F10		
CE607	E7	R610	J8	R719	G10		
CE609	H12	R611	G8	R721	G10		
CE610	I12	R612	J7	R722	G10		
CE611	H8	R614	H8	R723	G10		
CE612	G7	R615	H8	R724	H10		
CE613	F7	R616	F8	R727	I10		
CE616	I7	R618	H8	R728	J10		
CE617	E6	R620	H8	R729	J9		
CE619	G6	R621	J7	R730	K10		
CE620	F6	R622	J7	R731	K10		
CE621	E5	R623	G6	R732	K10		
CE622	H4	R624	G6	R733	J9		
CE624	I6	R625	F7	R734	G8		

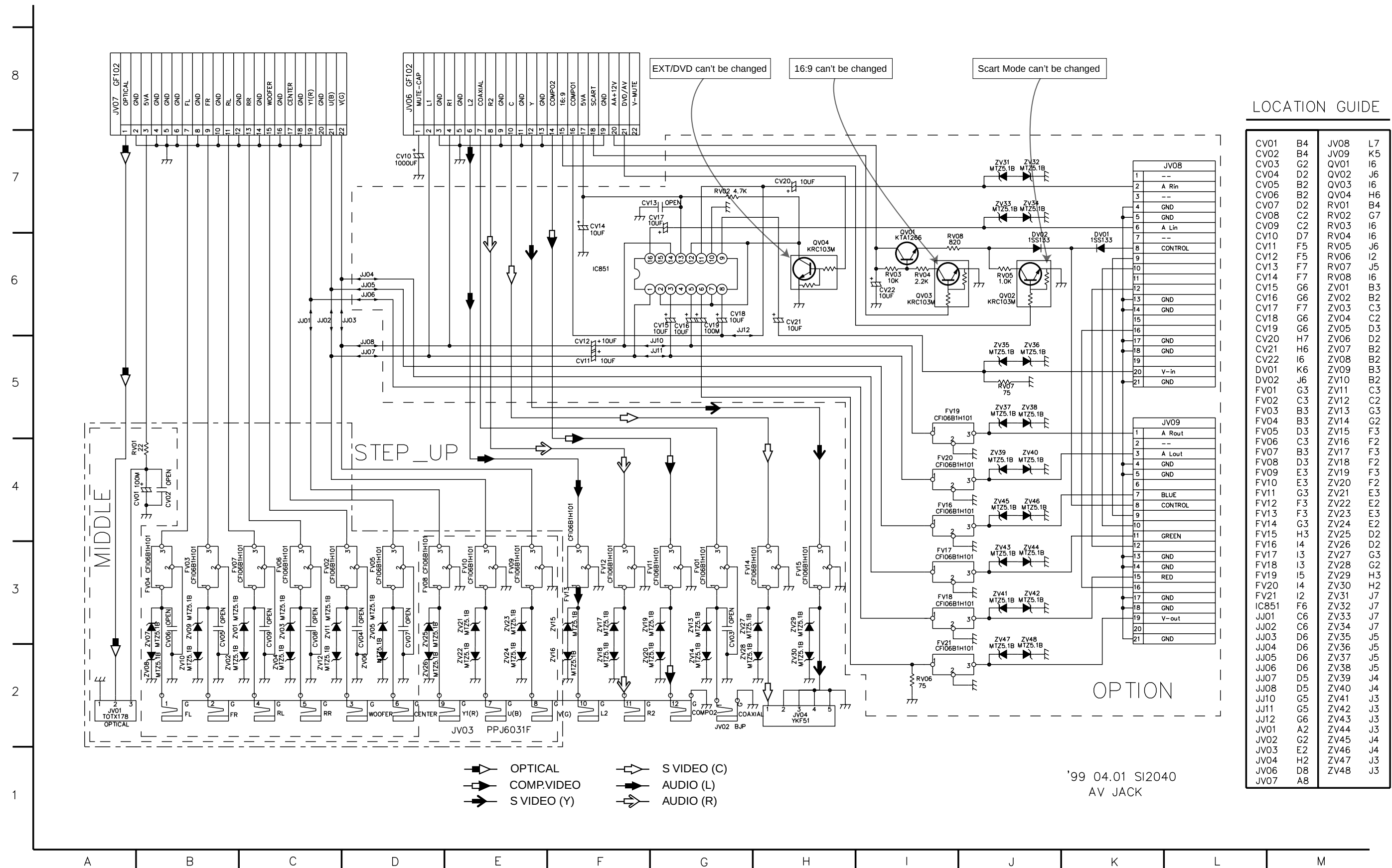
6. μ-COM/EXPANDER CIRCUIT DIAGRAM



7. FRONT(TIMER) & KEY CIRCUIT DIAGRAM

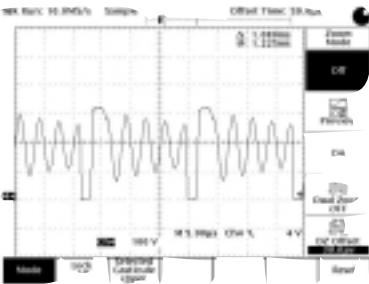


8. JACK CIRCUIT DIAGRAM



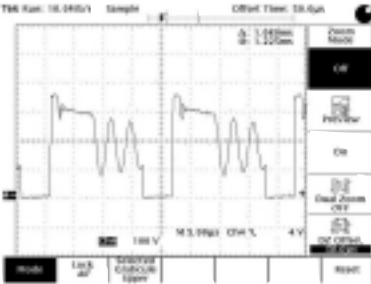
**WAVEFORM
(POWER)**

①



IC901 Pin ③
STAND-BY(AC110V)

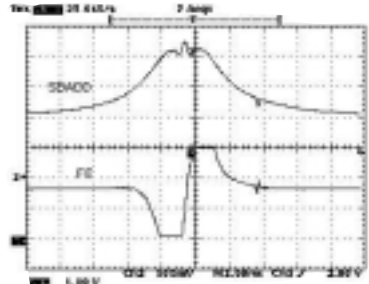
②



IC903 Pin ③
PLAY(AC110V)

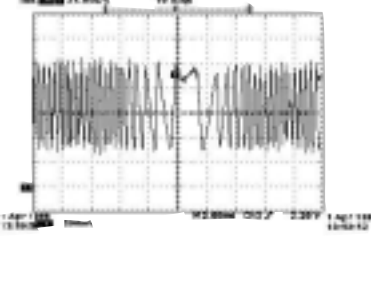
(RF/SERVO)

①



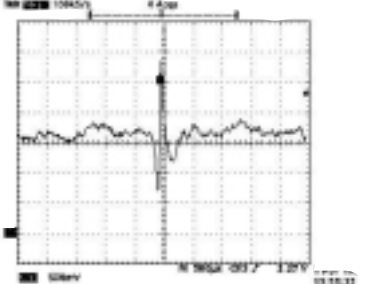
IC201 Pin ②, Focus Error
IC201 Pin ①, SBADD

②



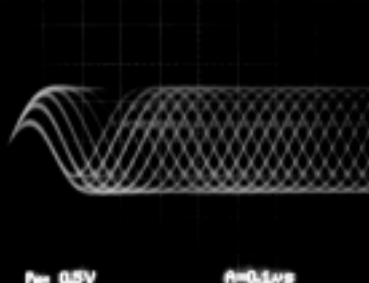
IC201 Pin ②
Tracking Error

③



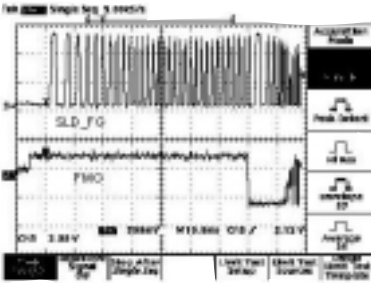
IC201 Pin ②
VBR TRACKING Error

④



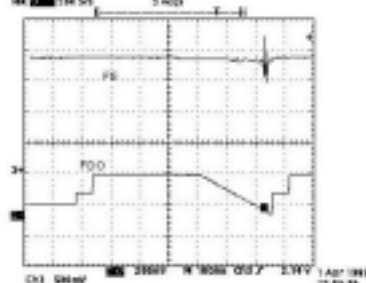
IC201 Pin ②,
RF

⑤



IC206 Pin ⑧, SLED Drive(FMO)
IC202 Pin ⑩, SLED FG

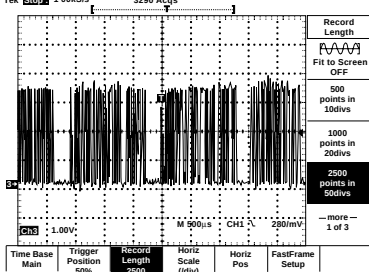
⑥



IC201 Pin ②, Focus Error(in Focus Search)
IC206 Pin ⑧, Focus Drive(FDO)

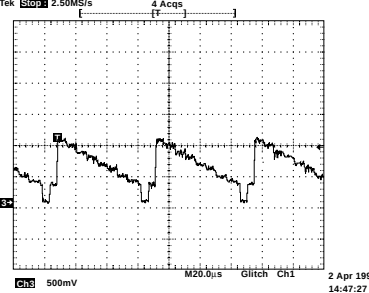
(VIDEO ENCODER)

①



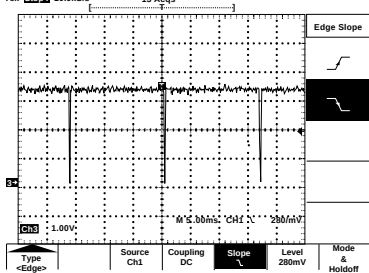
IC800 Pin ②⑧~③⑤, MPEG Data
IC801 Pin ⑬~⑯, ⑲~⑳, MPEG Data

④



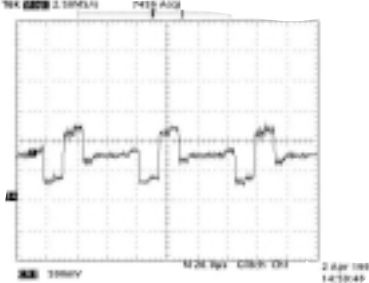
IC800 Pin ⑬, Luminance
IC801 Pin ⑤⑨, Luminance

⑦



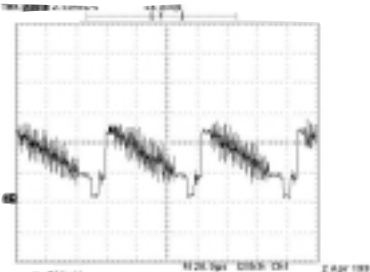
IC800 Pin ④⑨, Vertical SYNC
IC801 Pin ②④, Vertical SYNC

⑩



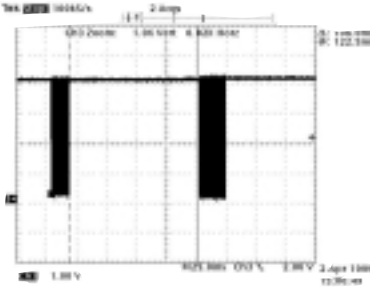
IC801 Pin ④③, Component Pr

②



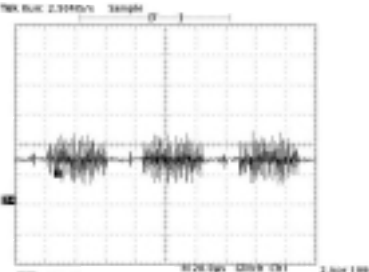
IC800 Pin ⑩, Composite
IC801 Pin ⑤⑦, Composite

⑤



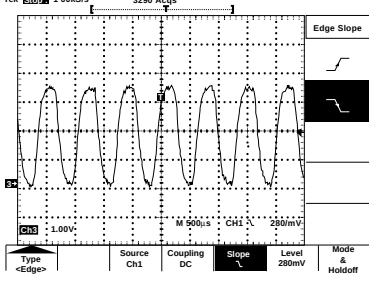
IC800 Pin ④⑩, ④①, SDA/SCL
IC801 Pin ⑦⑤, ⑦⑥, SDA/SCL

③



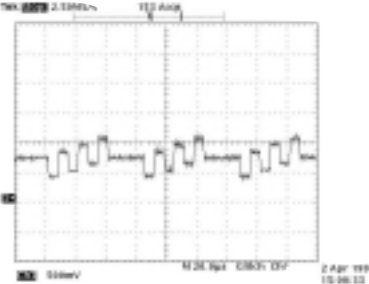
IC800 Pin ⑫, Chrominance
IC801 Pin ⑤⑧, Chrominance

⑥



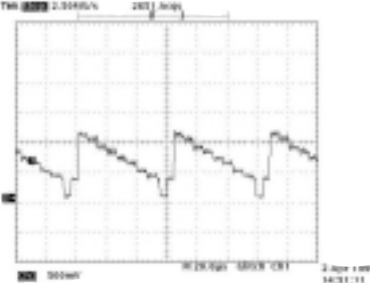
IC800 Pin ④③, MPEG Clock(27MHz)
IC801 Pin ⑦①, MPEG Clock(27MHz)

⑨



IC801 Pin ④②, Component Pb

⑪



IC801 Pin ④④, Component Y