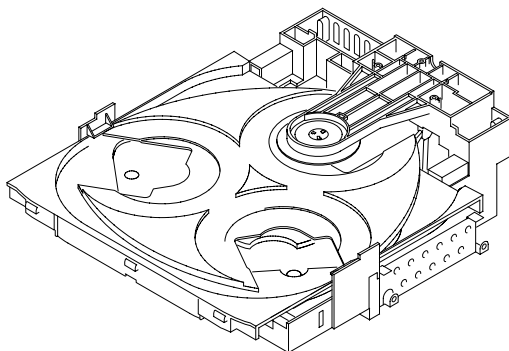




SERVICE MANUAL

DVD MECHANISM

BASIC DVD MECHANISM : DV32F2

TYPE
ZWEM
ZWE

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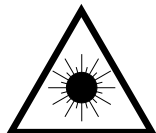
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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

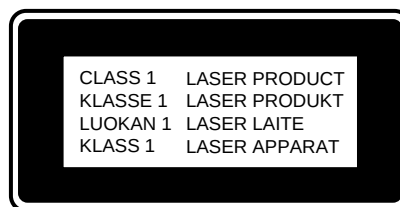
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

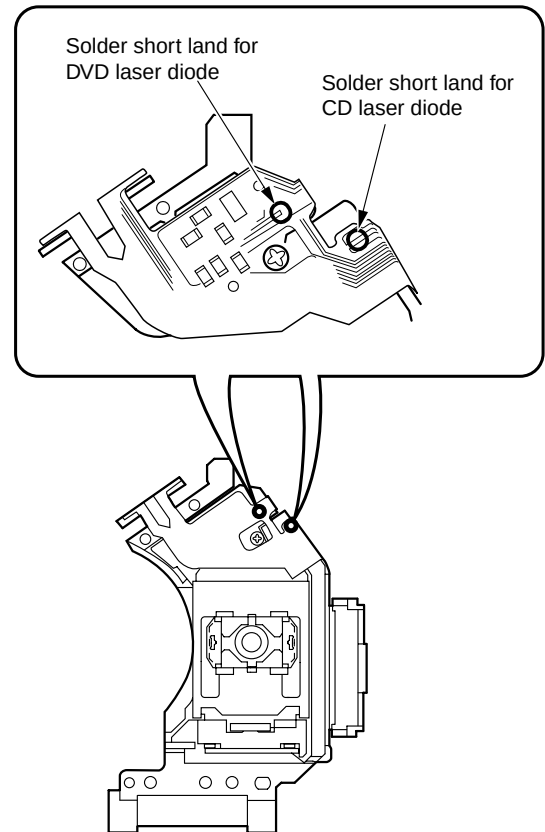


Precaution to replace Optical block (SF-HD3AV2)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

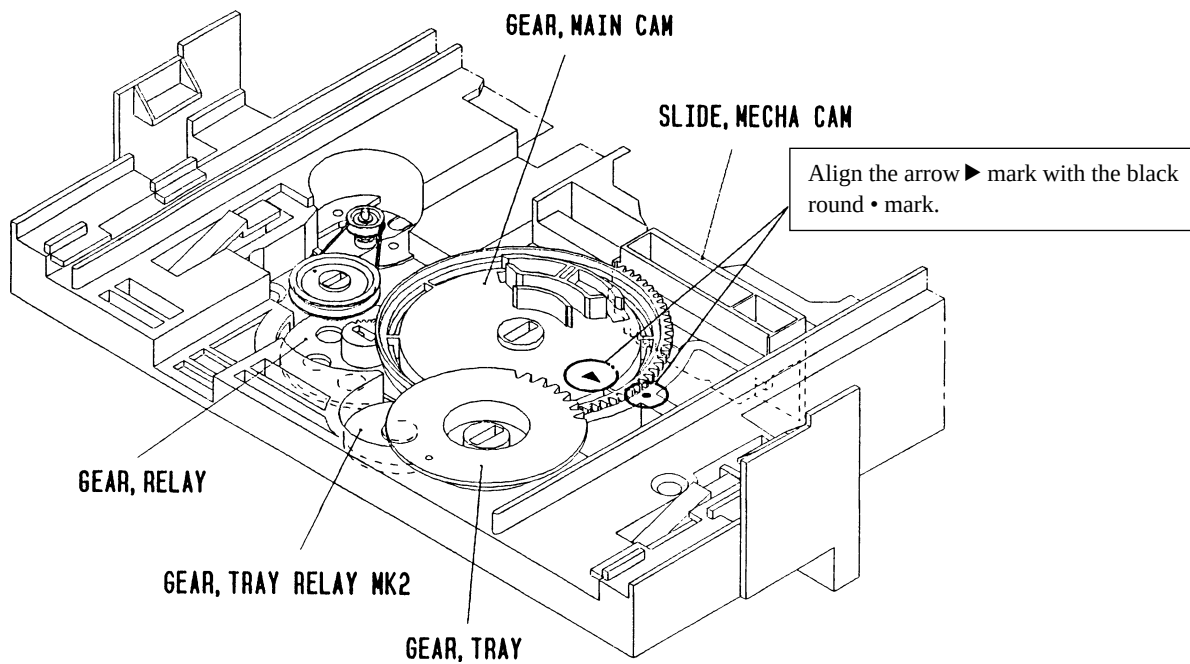
SF-HD3AV2 (DV32F2: M8-AZK-J92-070) MODEL



How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST-1/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				DVD C.B			
	87-A21-998-040	C-IC,HD74LV14AT		C100	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A21-997-080	C-IC,HD74LV2G08A		C101	87-016-427-080		C-CAP,E 47-6.3 5.5N
	8A-ZA7-804-010	C-IC,LC87F72C8A		C102	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-999-080	C-IC,HD74LV1G04A		C103	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-760-040	C-IC,NJM4580V		C104	87-012-180-080		C-CAP,U 22P-50 CH
	8B-ZA6-602-030	C-IC,LC78661W		C105	87-012-180-080		C-CAP,U 22P-50 CH
	8A-ZA7-802-040	C-IC,LC324265AT-25DV		C106	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-309-040	C-IC,HD74LV74A		C107	87-016-428-080		C-CAP,E 47-16 5.5N
	8A-ZA7-800-010	C-IC,LA9702W-MPB		C110	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-017-915-080	IC,BU4094BCF		C111	87-012-195-080		C-CAP,U 100P-50CH
	87-A21-986-040	C-IC,HD74LV4066AT		C112	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-304-010	IC,LB1649		C114	87-016-430-080		C-CAP,E 100-6.3 5.5N
	8A-ZA7-801-040	C-IC,LA6556L-TE-L		C115	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-017-825-010	IC,GP1F32T		C118	87-012-172-080		CAPACITOR CHIP U 10P CH
	87-A21-991-030	C-IC,HD6412320VF25		C119	87-012-172-080		CAPACITOR CHIP U 10P CH
	87-A21-763-040	C-IC,PST3430		C120	87-012-172-080		CAPACITOR CHIP U 10P CH
	8B-ZA6-606-030	C-IC,M29W800AB(BZA) 2		C121	87-012-172-080		CAPACITOR CHIP U 10P CH
	87-A21-990-080	C-IC,HD74LV1G08A		C122	87-012-172-080		CAPACITOR CHIP U 10P CH
	87-A21-941-030	C-IC,UT62L1024LC-70LL		C123	87-012-172-080		CAPACITOR CHIP U 10P CH
	8Z-AV2-630-010	C-IC,L64021D		C124	87-012-172-080		CAPACITOR CHIP U 10P CH
	87-A21-617-010	C-IC,HY57V161610DTC-8		C125	87-012-172-080		CAPACITOR CHIP U 10P CH
	87-A22-042-040	C-IC,PLL1701		C126	87-012-286-080		CAP, U 0.01-25
	87-A21-993-040	C-IC,PCMI742 KE		C127	87-012-286-080		CAP, U 0.01-25
	87-A21-613-040	C-IC,SN74LV04APW		C128	87-012-286-080		CAP, U 0.01-25
	87-A21-362-040	C-IC,NJM2100M(TE2)		C129	87-012-286-080		CAP, U 0.01-25
	87-A20-905-040	C-IC,BA033FP		C130	87-012-286-080		CAP, U 0.01-25
	87-A22-041-030	C-IC,ADV7170K		C201	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-883-040	C-IC,CS8415A		C202	87-016-429-080		C-CAP,E 100-4 5.5N
	87-A21-884-040	C-IC,CS4228A		C203	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-755-040	C-IC,SN74LV541APW		C205	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A21-987-040	C-IC,BA025		C206	87-016-430-080		C-CAP,E 100-6.3 5.5N
	87-A21-885-040	C-IC,CS49326		C208	87-016-430-080		C-CAP,E 100-6.3 5.5N
				C209	87-016-427-080		C-CAP,E 47-6.3 5.5N
				C210	87-012-286-080		CAP, U 0.01-25
				C211	87-A10-260-080		C-CAP,U 0.1-16 K B
TRANSISTOR							
	87-A30-582-080	TR,CDA1585BC		C217	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A30-083-080	TR,CSD1489B		C218	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A30-076-080	C-TR,2SC3052F		C219	87-A12-344-080		C-CAP,E 100-6.3 VC PX
	87-A30-613-010	TR,2SD2374		C220	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-072-080	C-TR,RT1P 144C		C221	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-071-080	C-TR,RT1N 144C		C222	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A30-086-040	C-TR,CSD1306E		C224	87-012-277-080		C-CAP, U 1800P-50 B
	87-A30-234-080	TR,CSC4115BC		C225	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-435-040	C-TR,DTC144EK T146		C226	87-012-274-080		CHIP CAP,U 1000P-50B
	89-211-323-080	C-TR,2SB1132R		C227	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-447-040	C-TR,DTA114EKA		C228	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-075-080	C-TR,2SA1235F		C229	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-516-040	C-FET,3LN01C-TB		C231	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-432-040	C-TR,DTC124XKA		C232	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-282-040	C-TR,DTA114TKA		C233	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A30-287-040	C-TR,DTC114TKA		C234	87-A10-260-080		C-CAP,U 0.1-16 K B
	89-333-265-040	C-TR,2SC3326A		C235	87-012-174-080		CAP CHIP CERA SS 12P CHJ
				C236	87-012-174-080		CAP CHIP CERA SS 12P CHJ
				C237	87-A10-260-080		C-CAP,U 0.1-16 K B
				C238	87-A10-504-080		C-CAP,U 0.047-16 K B
DIODE							
	87-A40-614-040	C-DIODE,SFPB-72		C239	87-A10-504-080		C-CAP,U 0.047-16 K B
	87-A40-749-080	ZENER,UZ5.6BSB		C240	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-020-465-080	DIODE,1SS133 (110MA)		C241	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A40-739-080	ZENER,UZ2.7BSA		C242	87-012-286-080		CAP, U 0.01-25
	87-A40-530-080	DIODE,RB721Q-40		C243	87-012-197-080		C-CAP,U 150P-50 CH
	87-A40-745-080	ZENER,UZ4.7BSA		C244	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A40-747-080	ZENER,UZ5.1BSB		C245	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-017-779-080	C-DIODE,1SS355		C246	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A40-765-080	ZENER,UZ11BSB		C247	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A40-741-080	ZENER,UZ3.6BSA		C248	87-A10-260-080		C-CAP,U 0.1-16 K B

ELECTRICAL MAIN PARTS LIST-2/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C249	87-A10-260-080	C-CAP,U 0.1-16 K B		C418	87-A10-260-080	C-CAP,U 0.1-16 K B	
C250	87-A10-260-080	C-CAP,U 0.1-16 K B		C419	87-A10-260-080	C-CAP,U 0.1-16 K B	
C251	87-A10-260-080	C-CAP,U 0.1-16 K B		C420	87-A10-260-080	C-CAP,U 0.1-16 K B	
C252	87-A10-260-080	C-CAP,U 0.1-16 K B		C421	87-010-848-080	C-CAP,10-16V	
C253	87-A10-260-080	C-CAP,U 0.1-16 K B		C422	87-A10-260-080	C-CAP,U 0.1-16 K B	
C254	87-A10-260-080	C-CAP,U 0.1-16 K B		C423	87-A11-976-080	C-CAP,E 470-16 M 10.5L MV	
C255	87-A10-260-080	C-CAP,U 0.1-16 K B		C424	87-016-427-080	C-CAP,E 47-6.3 5.5N	
C256	87-012-282-080	CAP, U 4700P-50		C425	87-A10-260-080	C-CAP,U 0.1-16 K B	
C259	87-016-426-080	C-CAP,E 47-4 5.5N		C426	87-A10-260-080	C-CAP,U 0.1-16 K B	
C260	87-012-286-080	CAP, U 0.01-25		C427	87-016-430-080	C-CAP,E 100-6.3 5.5N	
C261	87-012-286-080	CAP, U 0.01-25		C602	87-012-286-080	CAP, U 0.01-25	
C300	87-016-427-080	C-CAP,E 47-6.3 5.5N		C603	87-012-286-080	CAP, U 0.01-25	
C301	87-016-426-080	C-CAP,E 47-4 5.5N		C604	87-012-286-080	CAP, U 0.01-25	
C302	87-A10-260-080	C-CAP,U 0.1-16 K B		C609	87-012-286-080	CAP, U 0.01-25	
C303	87-A10-260-080	C-CAP,U 0.1-16 K B		C611	87-012-286-080	CAP, U 0.01-25	
C304	87-012-274-080	CHIP CAP,U 1000P-50B		C613	87-012-286-080	CAP, U 0.01-25	
C305	87-016-427-080	C-CAP,E 47-6.3 5.5N		C614	87-012-172-080	CAPACITOR CHIP U 10P CH	
C307	87-012-274-080	CHIP CAP,U 1000P-50B		C617	87-012-172-080	CAPACITOR CHIP U 10P CH	
C308	87-016-427-080	C-CAP,E 47-6.3 5.5N		C619	87-012-286-080	CAP, U 0.01-25	
C311	87-A10-260-080	C-CAP,U 0.1-16 K B		C620	87-012-286-080	CAP, U 0.01-25	
C312	87-012-271-080	CAP, U 560P-50		C623	87-012-286-080	CAP, U 0.01-25	
C313	87-012-271-080	CAP, U 560P-50		C624	87-012-286-080	CAP, U 0.01-25	
C314	87-012-271-080	CAP, U 560P-50		C625	87-016-426-080	C-CAP,E 47-4 5.5N	
C315	87-012-271-080	CAP, U 560P-50		C626	87-012-286-080	CAP, U 0.01-25	
C316	87-012-271-080	CAP, U 560P-50		C627	87-012-286-080	CAP, U 0.01-25	
C317	87-012-282-080	CAP, U 4700P-50		C630	87-016-429-080	C-CAP,E 100-4 5.5N	
C318	87-012-271-080	CAP, U 560P-50		C632	87-016-429-080	C-CAP,E 100-4 5.5N	
C319	87-012-196-080	C-CAP, U 120P-50 CH		C634	87-012-286-080	CAP, U 0.01-25	
C320	87-010-779-080	C-CAP,E 100-6.3		C701	87-012-286-080	CAP, U 0.01-25	
C321	87-A10-260-080	C-CAP,U 0.1-16 K B		C702	87-016-429-080	C-CAP,E 100-4 5.5N	
C323	87-A10-260-080	C-CAP,U 0.1-16 K B		C703	87-016-429-080	C-CAP,E 100-4 5.5N	
C324	87-012-197-080	C-CAP,U 150P-50 CH		C704	87-012-286-080	CAP, U 0.01-25	
C330	87-012-184-080	C-CAP,U 33P-50 CH		C705	87-012-286-080	CAP, U 0.01-25	
C336	87-012-197-080	C-CAP,U 150P-50 CH		C706	87-012-286-080	CAP, U 0.01-25	
C337	87-012-188-080	C-CAP,U 47P-50 CH		C707	87-012-278-080	C-CAP,U 2200P-50 B	
C338	87-012-174-080	CAP CHIP CERA SS 12P CHJ		C708	87-012-286-080	CAP, U 0.01-25	
C339	87-012-195-080	C-CAP,U 100P-50CH		C709	87-012-286-080	CAP, U 0.01-25	
C340	87-016-427-080	C-CAP,E 47-6.3 5.5N		C710	87-016-426-080	C-CAP,E 47-4 5.5N	
C341	87-012-193-080	C-CAP,U 82P-50 CH		C711	87-012-286-080	CAP, U 0.01-25	
C342	87-012-180-080	C-CAP,U 22P-50 CH		C712	87-012-286-080	CAP, U 0.01-25	
C343	87-012-270-080	CAP, U 470P-50		C713	87-012-286-080	CAP, U 0.01-25	
C344	87-012-195-080	C-CAP,U 100P-50CH		C714	87-012-286-080	CAP, U 0.01-25	
C345	87-012-197-080	C-CAP,U 150P-50 CH		C715	87-012-286-080	CAP, U 0.01-25	
C348	87-A10-260-080	C-CAP,U 0.1-16 K B		C716	87-012-286-080	CAP, U 0.01-25	
C349	87-010-843-080	C-CAP,E 1-50 M 5.5L MV		C717	87-012-286-080	CAP, U 0.01-25	
C350	87-A10-260-080	C-CAP,U 0.1-16 K B		C718	87-012-286-080	CAP, U 0.01-25	
C351	87-A10-260-080	C-CAP,U 0.1-16 K B		C719	87-012-286-080	CAP, U 0.01-25	
C352	87-016-427-080	C-CAP,E 47-6.3 5.5N		C720	87-012-286-080	CAP, U 0.01-25	
C353	87-016-426-080	C-CAP,E 47-4 5.5N		C721	87-012-286-080	CAP, U 0.01-25	
C354	87-012-164-080	C-CAP,U 2P-50 CK		C722	87-012-286-080	CAP, U 0.01-25	
C355	87-010-779-080	C-CAP,E 100-6.3		C723	87-012-286-080	CAP, U 0.01-25	
C356	87-012-176-080	CAP 15P		C724	87-012-286-080	CAP, U 0.01-25	
C357	87-A10-260-080	C-CAP,U 0.1-16 K B		C725	87-012-171-080	C-CAP,U 9P-50 CH	
C358	87-012-274-080	CHIP CAP,U 1000P-50B		C727	87-012-286-080	CAP, U 0.01-25	
C359	87-012-274-080	CHIP CAP,U 1000P-50B		C728	87-012-286-080	CAP, U 0.01-25	
C400	87-A10-260-080	C-CAP,U 0.1-16 K B		C729	87-012-286-080	CAP, U 0.01-25	
C401	87-016-426-080	C-CAP,E 47-4 5.5N		C731	87-016-426-080	C-CAP,E 47-4 5.5N	
C402	87-A10-260-080	C-CAP,U 0.1-16 K B		C733	87-012-196-080	C-CAP,U 120P-50 CH	
C403	87-A10-260-080	C-CAP,U 0.1-16 K B		C734	87-012-171-080	C-CAP,U 9P-50 CH	
C404	87-A11-976-080	C-CAP,E 470-16 M 10.5L MV		C735	87-012-286-080	CAP, U 0.01-25	
C405	87-A10-260-080	C-CAP,U 0.1-16 K B		C736	87-010-848-080	C-CAP,10-16V	
C406	87-A10-260-080	C-CAP,U 0.1-16 K B		C737	87-010-662-080	C-CAP,E 22-6.3	
C407	87-012-199-080	CAP 220P		C738	87-012-196-080	C-CAP,U 120P-50 CH	
C408	87-012-199-080	CAP 220P		C740	87-A10-260-080	C-CAP,U 0.1-16 K B	
C409	87-012-199-080	CAP 220P		C741	87-A10-260-080	C-CAP,U 0.1-16 K B	
C410	87-012-199-080	CAP 220P		C742	87-010-662-080	C-CAP,E 22-6.3	
C411	87-016-430-080	C-CAP,E 100-6.3 5.5N		C744	87-A10-260-080	C-CAP,U 0.1-16 K B	
C413	87-A10-260-080	C-CAP,U 0.1-16 K B		C745	87-A10-260-080	C-CAP,U 0.1-16 K B	
C415	87-010-464-080	CAP ELECT 22-4		C755	87-010-662-080	C-CAP,E 22-6.3	
C416	87-A10-260-080	C-CAP,U 0.1-16 K B		C758	87-012-286-080	CAP, U 0.01-25	

ELECTRICAL MAIN PARTS LIST-3/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C759	87-010-848-080	C-CAP,10-16V		FB900	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C760	87-010-848-080	C-CAP,10-16V		FB901	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C767	87-012-286-080	CAP, U 0.01-25		FB902	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C801	87-A10-260-080	C-CAP,U 0.1-16 K B		FB903	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C802	87-A10-260-080	C-CAP,U 0.1-16 K B		FB904	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C803	87-A11-049-080	C-CAP,U 1-6.3 K B		FB905	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C824	87-016-429-080	C-CAP,E 100-4 5.5N		FB906	87-A91-861-080	C-F-BEAD,	BLM21P221SGPT
C825	87-A10-260-080	C-CAP,U 0.1-16 K B		L100	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C826	87-012-286-080	CAP, U 0.01-25		L201	87-A50-395-080	C-COIL,100UHD73C-636CY	
C827	87-A10-260-080	C-CAP,U 0.1-16 K B		L203	87-A50-668-080	C-COIL, 2.2UH K	FLC32
C828	87-A10-260-080	C-CAP,U 0.1-16 K B		L300	87-A50-395-080	C-COIL,100UHD73C-636CY	
C829	87-A10-260-080	C-CAP,U 0.1-16 K B		L301	87-005-811-080	C-COIL,10UH J	FLC32
C830	87-A10-260-080	C-CAP,U 0.1-16 K B		L302	87-005-811-080	C-COIL,10UH J	FLC32
C831	87-A10-260-080	C-CAP,U 0.1-16 K B		L400	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C832	87-A10-260-080	C-CAP,U 0.1-16 K B		L600	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C833	87-012-286-080	CAP, U 0.01-25		L601	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C834	87-A10-260-080	C-CAP,U 0.1-16 K B		L602	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C900	87-A11-969-080	C-CAP,U 0.082U-16 K B		L700	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C901	87-012-278-080	C-CAP,U 2200P-50 B		L701	87-A50-667-080	C-COIL, 1.0UH K	FLC32
C902	87-A10-484-080	C-CAP,S 1.0U-10 K B		L702	87-A50-668-080	C-COIL, 2.2UH K	FLC32
C903	87-012-278-080	C-CAP,U 2200P-50 B		L705	87-005-815-080	C-COIL, 22UH J	FLC32
C909	87-012-286-080	CAP, U 0.01-25		PT101	8B-ZA6-605-080	C-PLATE, SD00433	
C921	87-010-843-080	C-CAP,E 1-50 M 5.5L MV		R615	87-A91-480-080	C-F-BEAD, BK1608	HS121
C922	87-A10-484-080	C-CAP,S 1.0U-10 K B		R619	87-A91-480-080	C-F-BEAD, BK1608	HS121
C923	87-A10-260-080	C-CAP,U 0.1-16 K B		R624	87-A91-480-080	C-F-BEAD, BK1608	HS121
C925	87-012-278-080	C-CAP,U 2200P-50 B		R626	87-A91-480-080	C-F-BEAD, BK1608	HS121
C926	87-012-286-080	CAP, U 0.01-25		R685	87-A91-480-080	C-F-BEAD, BK1608	HS121
C927	87-A10-260-080	C-CAP,U 0.1-16 K B		R687	87-A91-480-080	C-F-BEAD, BK1608	HS121
C928	87-012-270-080	CAP, U 470P-50		R717	87-A91-480-080	C-F-BEAD, BK1608	HS121
C929	87-010-844-080	C-CAP,E 2.2-50 M MV		R718	87-A91-480-080	C-F-BEAD, BK1608	HS121
C930	87-A10-260-080	C-CAP,U 0.1-16 K B		R719	87-A91-480-080	C-F-BEAD, BK1608	HS121
C932	87-012-278-080	C-CAP,U 2200P-50 B		R720	87-A91-480-080	C-F-BEAD, BK1608	HS121
C933	87-012-278-080	C-CAP,U 2200P-50 B		R721	87-A91-480-080	C-F-BEAD, BK1608	HS121
C940	87-A10-484-080	C-CAP,S 1.0U-10 K B		R722	87-A91-480-080	C-F-BEAD, BK1608	HS121
C941	87-016-429-080	C-CAP,E 100-4 5.5N		R723	87-A91-480-080	C-F-BEAD, BK1608	HS121
C943	87-A10-260-080	C-CAP,U 0.1-16 K B		R724	87-A91-480-080	C-F-BEAD, BK1608	HS121
C944	87-A10-484-080	C-CAP,S 1.0U-10 K B		R768	87-A91-878-080	C-F-BEAD, BK1608HS241	
C945	87-012-278-080	C-CAP,U 2200P-50 B		R951	87-A91-480-080	C-F-BEAD, BK1608	HS121
C946	87-A10-484-080	C-CAP,S 1.0U-10 K B		R952	87-A91-480-080	C-F-BEAD, BK1608	HS121
C947	87-A10-484-080	C-CAP,S 1.0U-10 K B		R953	87-A91-480-080	C-F-BEAD, BK1608	HS121
C948	87-016-426-080	C-CAP,E 47-4 5.5N		R954	87-A91-480-080	C-F-BEAD, BK1608	HS121
C949	87-A10-260-080	C-CAP,U 0.1-16 K B		R955	87-A91-480-080	C-F-BEAD, BK1608	HS121
C954	87-012-278-080	C-CAP,U 2200P-50 B		R956	87-A91-480-080	C-F-BEAD, BK1608	HS121
C955	87-A10-484-080	C-CAP,S 1.0U-10 K B		R957	87-A91-480-080	C-F-BEAD, BK1608	HS121
C957	87-A10-260-080	C-CAP,U 0.1-16 K B		R958	87-A91-480-080	C-F-BEAD, BK1608	HS121
C958	87-016-426-080	C-CAP,E 47-4 5.5N		R959	87-A91-480-080	C-F-BEAD, BK1608	HS121
CN100	87-A61-476-080	C-CONN,10P V WHT BM10B-SRSS-TB		R973	87-A91-480-080	C-F-BEAD, BK1608	HS121
CN300	87-A61-332-080	C-CONN,33P V WHT FH12		R974	87-A91-480-080	C-F-BEAD, BK1608	HS121
CN401	87-A61-632-080	C-CONN,10P H WHT PH-SM3-TB		R975	87-A91-480-080	C-F-BEAD, BK1608	HS121
CN402	87-A61-337-080	C-CONN,9P V WHT PH-SM3-TB		X100	87-A70-284-080	C-VIB,XTAL 10MHZ	HC-49/U03C
CN601	87-A61-228-080	C-CONN,6P H 6232T		X200	87-A70-283-080	C-VIB,XTAL 16.9344MHZ	HC-49/U03C
CN701	87-A60-557-080	C-CONN,2P H PH-SM3		X600	87-A70-194-080	C-VIB,XTAL 20MHZ	HC-49/U03C
CN801	87-A61-635-080	C-CONN,7P H BLK 6232T		X700	87-A70-195-080	C-VIB,XTAL 27MHZ	HC-49/U03C
CN901	87-A60-960-080	C-CONN,16P H 6232T					
CP200	87-A91-065-080	C-ARRAY,R 100X4 EXBV8V					
CP201	87-A91-065-080	C-ARRAY,R 100X4 EXBV8V					
CP203	87-A91-065-080	C-ARRAY,R 100X4 EXBV8V		C1	87-010-831-080	C-CAP,U,0.1-16F	
FB201	87-A91-861-080	C-F-BEAD, BLM21P221SGPT		C2	87-010-805-080	CAP, S 1-16	
FB203	87-A50-667-080	C-COIL, 1.0UH K FLC32		C3	87-A12-072-080	CAP,E 100-25 SMG	
FB401	87-A91-720-080	C-F-BEAD, FBMJ3216HS800-T		C4	87-012-195-080	C-CAP,U 100P-50CH	
				C5	87-A12-072-080	CAP,E 100-25 SMG	
FB402	87-A91-720-080	C-F-BEAD, FBMJ3216HS800-T		C6	87-010-805-080	CAP, S 1-16	
FB403	87-A91-720-080	C-F-BEAD, FBMJ3216HS800-T		C8	87-012-286-080	CAP, U 0.01-25	
FB406	87-A91-720-080	C-F-BEAD, FBMJ3216HS800-T		C9	87-A12-062-080	CAP,E 100-10 SMG	
FB407	87-A91-720-080	C-F-BEAD, FBMJ3216HS800-T		C10	87-010-831-080	C-CAP,U,0.1-16F	
FB702	87-A91-861-080	C-F-BEAD, BLM21P221SGPT		C12	87-010-831-080	C-CAP,U,0.1-16F	
FB731	87-A91-480-080	C-F-BEAD, BK1608 HS121					
FB733	87-A91-875-080	C-F-BEAD, BK1608LL680		C13	87-010-831-080	C-CAP,U,0.1-16F	
FB737	87-A91-480-080	C-F-BEAD, BK1608 HS121		C31	87-012-286-080	CAP, U 0.01-25	
FB739	87-A91-480-080	C-F-BEAD, BK1608 HS121		C32	87-A12-062-080	CAP,E 100-10 SMG	
FB802	87-A50-667-080	C-COIL, 1.0UH K FLC32		C33	87-010-831-080	C-CAP,U,0.1-16F	

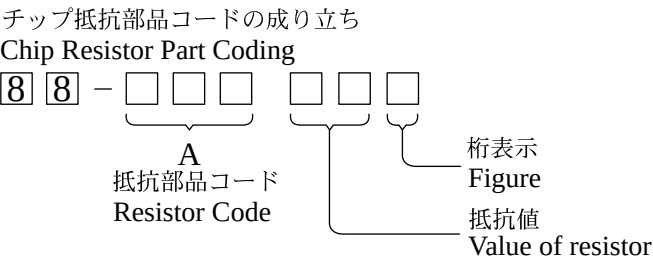
ELECTRICAL MAIN PARTS LIST-4/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C41	87-012-286-080	CAP, U 0.01-25		C322	87-012-195-080	C-CAP,U 100P-50CH	
C42	87-A12-062-080	CAP,E 100-10 SMG		C323	87-012-195-080	C-CAP,U 100P-50CH	
C43	87-010-831-080	C-CAP,U,0.1-16F		C324	87-010-831-080	C-CAP,U,0.1-16F	
C44	87-010-831-080	C-CAP,U,0.1-16F		C325	87-A12-090-080	CAP,E 4.7-50 SMG	
C51	87-012-286-080	CAP, U 0.01-25		C326	87-A12-091-080	CAP,E 10-50 SMG	
C52	87-016-459-080	CAP,E 470-10 SMG		C352	87-010-831-080	C-CAP,U,0.1-16F	
C53	87-010-831-080	C-CAP,U,0.1-16F		C353	87-A10-918-080	CAP,E 100-16 SMG	
C54	87-010-831-080	C-CAP,U,0.1-16F		C354	87-A12-090-080	CAP,E 4.7-50 SMG	
C110	87-A12-061-080	CAP,E 47-10 SMG		C355	87-010-831-080	C-CAP,U,0.1-16F	
C111	87-010-831-080	C-CAP,U,0.1-16F		C501	87-012-267-080	C-CAP,U 270P-50 B	
C112	87-010-831-080	C-CAP,U,0.1-16F		C502	87-012-180-080	C-CAP,U 22P-50 CH	
C119	87-A10-047-080	C-CAP,U 1-10 Z F		C503	87-012-336-080	CAP, CHIP SS 3300 SL	
C120	87-A10-047-080	C-CAP,U 1-10 Z F		C504	87-012-267-080	C-CAP,U 270P-50 B	
C121	87-012-196-080	C-CAP,U 120P-50 CH		C505	87-012-180-080	C-CAP,U 22P-50 CH	
C122	87-012-196-080	C-CAP,U 120P-50 CH		C506	87-012-336-080	CAP, CHIP SS 3300 SL	
C123	87-012-199-080	CAP 220P		C507	87-012-267-080	C-CAP,U 270P-50 B	
C124	87-012-199-080	CAP 220P		C508	87-012-180-080	C-CAP,U 22P-50 CH	
C125	87-012-199-080	CAP 220P		C509	87-012-336-080	CAP, CHIP SS 3300 SL	
C126	87-012-199-080	CAP 220P		C510	87-012-337-080	C-CAP,U 56P-50 CH	
C127	87-012-199-080	CAP 220P		C511	87-010-831-080	C-CAP,U,0.1-16F	
C128	87-012-199-080	CAP 220P		C512	87-A12-091-080	CAP,E 10-50 SMG	
C129	87-012-199-080	CAP 220P		C555	87-A12-058-080	CAP,E 470-6.3 SMG	
C130	87-012-199-080	CAP 220P		C556	87-A12-058-080	CAP,E 470-6.3 SMG	
C133	87-010-831-080	C-CAP,U,0.1-16F		C563	87-010-831-080	C-CAP,U,0.1-16F	
C134	87-010-831-080	C-CAP,U,0.1-16F		CN101	87-A60-655-010	CONN,16P V GRY FMN-BTK	
C139	87-A12-091-080	CAP,E 10-50 SMG		CN201	87-099-202-010	CONN,9P 6216 H	
C140	87-A12-091-080	CAP,E 10-50 SMG		CN202	87-099-028-010	CONN,11P 6216 H	
C141	87-012-196-080	C-CAP,U 120P-50 CH		CN301	87-A61-351-010	CONN,6P V GRY FMN-BTK	
C142	87-012-196-080	C-CAP,U 120P-50 CH		CN302	87-099-201-010	CONN,8P 6216 H	
C143	87-012-199-080	CAP 220P		CN351	87-A60-062-010	CONN,05P V 9604S-05C	
C144	87-012-199-080	CAP 220P		CN501	87-A61-234-010	CONN,7P V GRY FMN-BTK	
C145	87-012-199-080	CAP 220P		CNA1	8B-ZG9-605-010	CONN ASSY,10P PH #24	
C146	87-012-199-080	CAP 220P		CNA501	8B-ZG9-606-010	CONN ASSY,2P PH S/P DIF	
C147	87-012-199-080	CAP 220P		CNA551	8B-ZG9-607-010	CONN ASSY,2P PH COMPOSITE	
C148	87-012-199-080	CAP 220P		FB1	87-A92-168-080	F-BEAD, W4BRH356010T	
C149	87-012-199-080	CAP 220P		FB2	87-A92-168-080	F-BEAD, W4BRH356010T	
C150	87-012-199-080	CAP 220P		FB31	87-A92-168-080	F-BEAD, W4BRH356010T	
C153	87-010-831-080	C-CAP,U,0.1-16F		FB41	87-A92-168-080	F-BEAD, W4BRH356010T	
C154	87-010-831-080	C-CAP,U,0.1-16F		FB51	87-A92-168-080	F-BEAD, W4BRH356010T	
C159	87-A10-047-080	C-CAP,U 1-10 Z F		FB101	87-A92-168-080	F-BEAD, W4BRH356010T	
C160	87-A12-091-080	CAP,E 10-50 SMG		FB501	87-A50-189-080	C-COIL,S BLM21B272S	
C161	87-012-196-080	C-CAP,U 120P-50 CH		J551	87-A61-284-010	JACK,PIN 1P YEL YKC-21 TYPE C	
C162	87-012-286-080	CAP, U 0.01-25		J552	87-A61-498-010	JACK,Y/C YKF51-5508	
C163	87-012-199-080	CAP 220P		L1	87-A50-517-080	COIL,10UHK FLR88	
C164	87-010-787-080	CAP, U 0.022-25		L2	87-A50-706-010	COIL,68UH CDRI3W1010	
C165	87-012-199-080	CAP 220P		L501	87-005-423-080	COIL,1.8UH K FLR50	
C166	87-010-787-080	CAP, U 0.022-25		L502	87-005-423-080	COIL,1.8UH K FLR50	
C167	87-012-199-080	CAP 220P		L503	87-005-423-080	COIL,1.8UH K FLR50	
C168	87-010-787-080	CAP, U 0.022-25		M301	87-045-305-010	MOTOR, RF-500TB DC-5V (2MA)	
C169	87-012-199-080	CAP 220P		S551	87-A91-500-010	SW,MICRO MPU11470MLB0	
C170	87-010-787-080	CAP, U 0.022-25		S552	87-A91-500-010	SW,MICRO MPU11470MLB0	
C173	87-010-831-080	C-CAP,U,0.1-16F		T551	8A-MVS-608-010	COIL,SORTER-BALUN	
C174	87-010-831-080	C-CAP,U,0.1-16F		T552	8A-MVS-608-010	COIL,SORTER-BALUN	
C181	87-A10-047-080	C-CAP,U 1-10 Z F		T553	8A-MVS-608-010	COIL,SORTER-BALUN	
C183	87-A10-295-080	CAP,M 0.01-50 J					
C185	87-A10-300-080	CAP,M 0.027-50 J		D-SENS C.B			
C186	87-010-831-080	C-CAP,U,0.1-16F		C401	87-010-831-080	C-CAP,U,0.1-16F	
C187	87-010-831-080	C-CAP,U,0.1-16F		CN401	86-NFZ-675-010	CONN,5P H 6216-11H	
C191	87-A10-918-080	CAP,E 100-16 SMG		M401	87-045-364-010	MOTOR(BCH3B14)	
C192	87-A12-063-080	CAP,E 220-10 SMG		PS401	87-026-573-010	IC,GP1S53V	
C221	87-A10-047-080	C-CAP,U 1-10 Z F					
C222	87-A10-047-080	C-CAP,U 1-10 Z F					
C241	87-A12-091-080	CAP,E 10-50 SMG					
C242	87-A12-091-080	CAP,E 10-50 SMG					
C261	87-A10-047-080	C-CAP,U 1-10 Z F					
C262	87-A12-091-080	CAP,E 10-50 SMG					
C292	87-012-195-080	C-CAP,U 100P-50CH					
C293	87-A10-918-080	CAP,E 100-16 SMG					
C294	87-010-831-080	C-CAP,U,0.1-16F					
C321	87-012-195-080	C-CAP,U 100P-50CH					

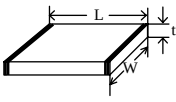
ELECTRICAL MAIN PARTS LIST-5/5

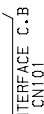
- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

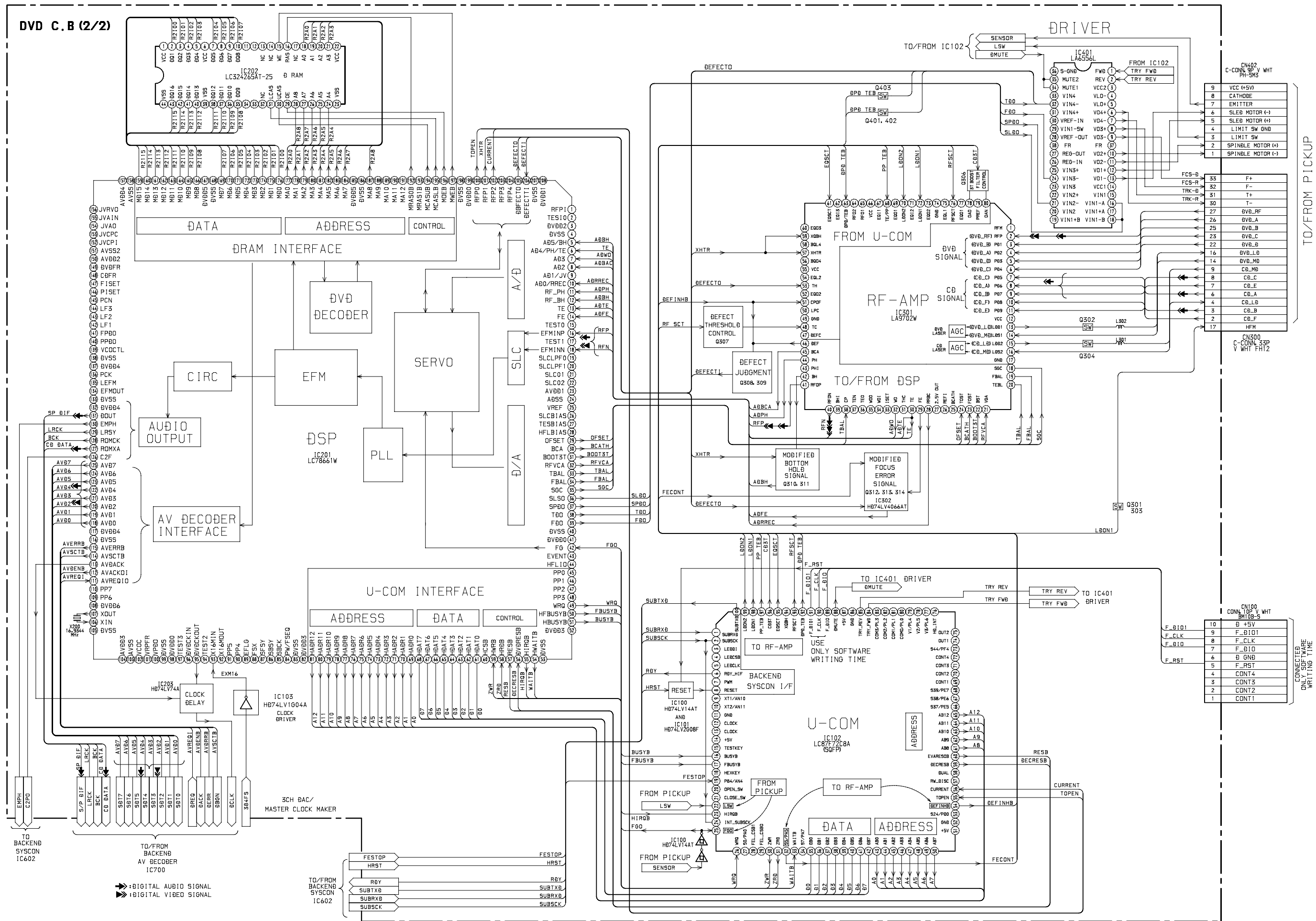


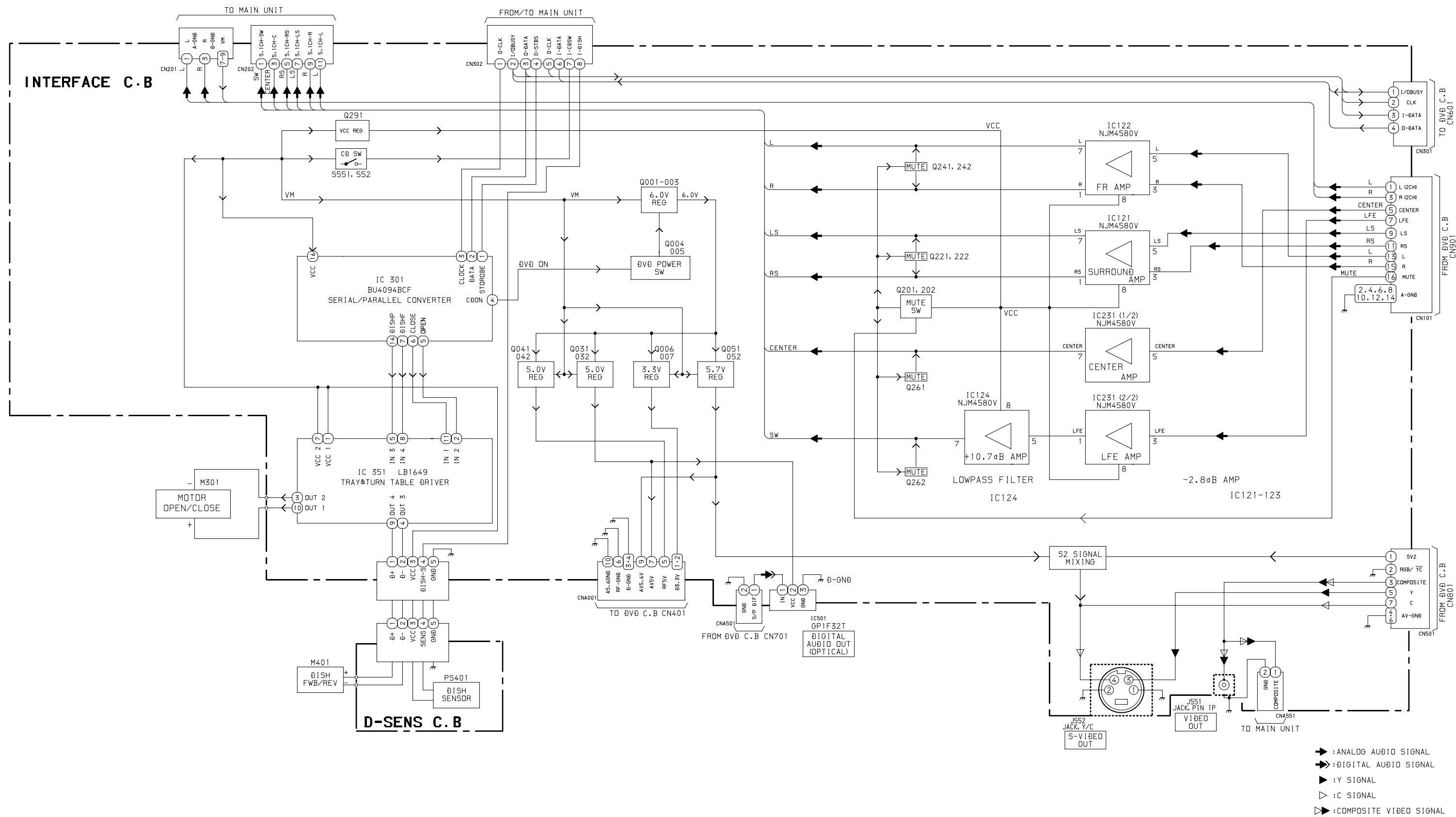
チップ抵抗
Chip resistor

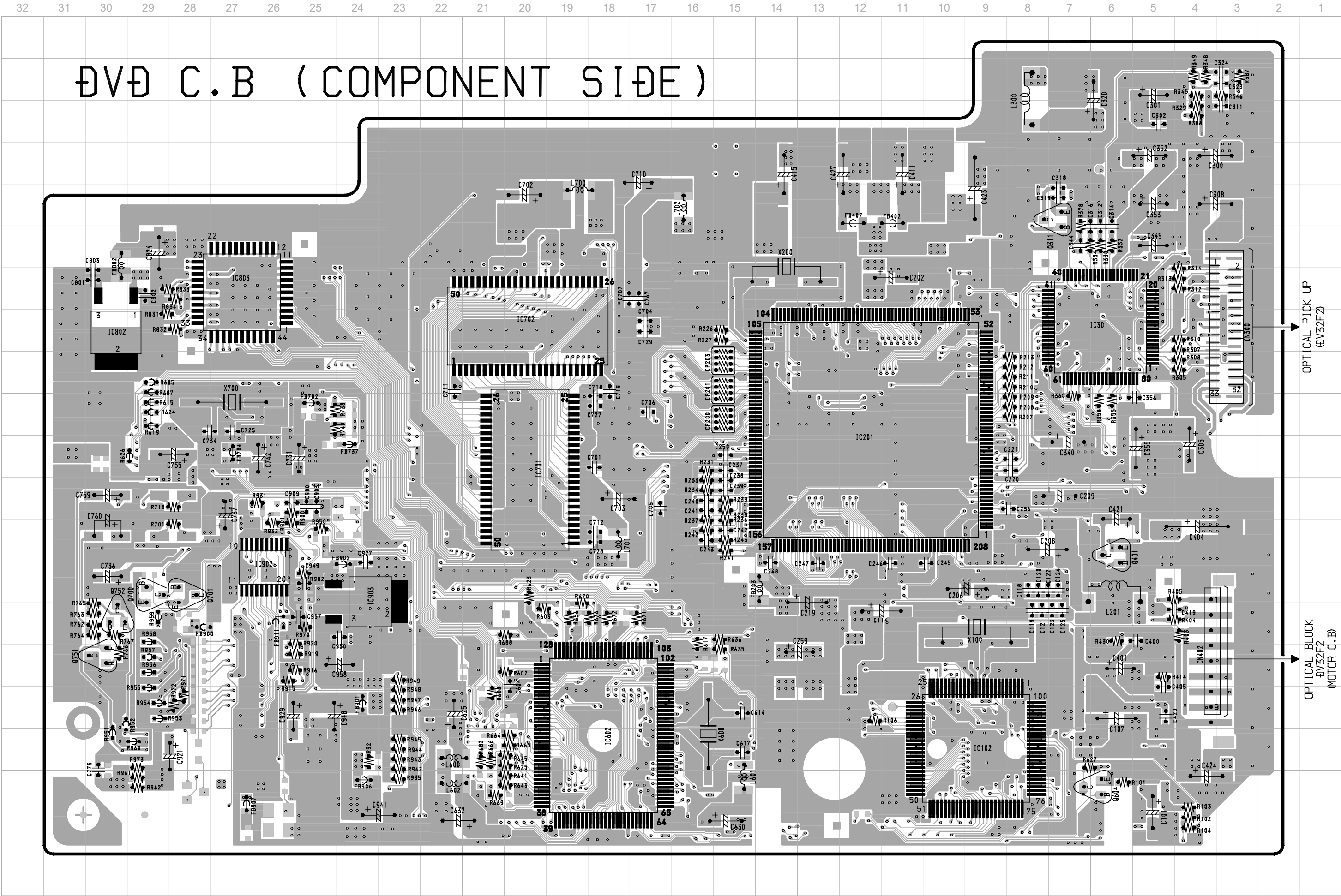
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

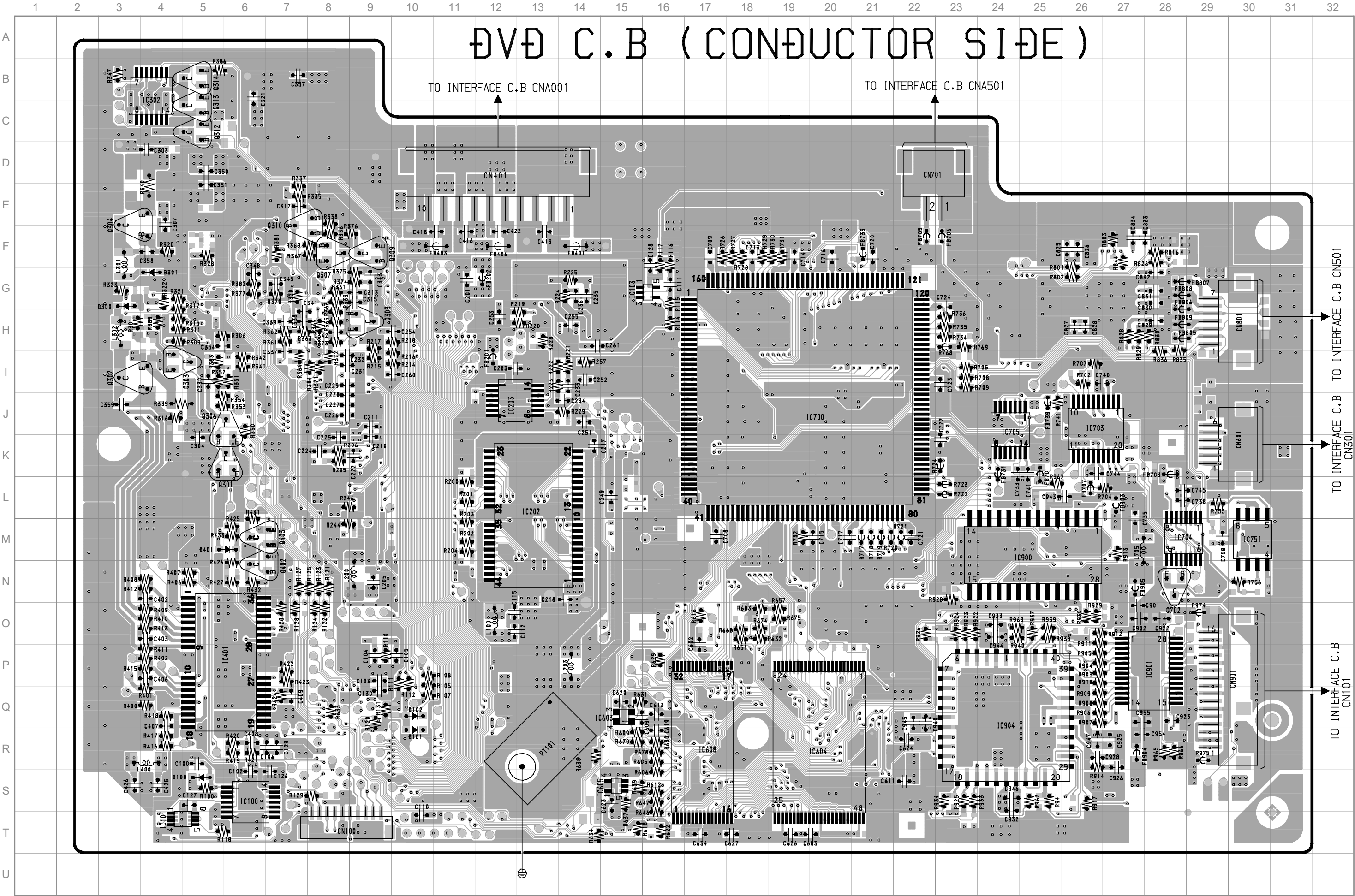


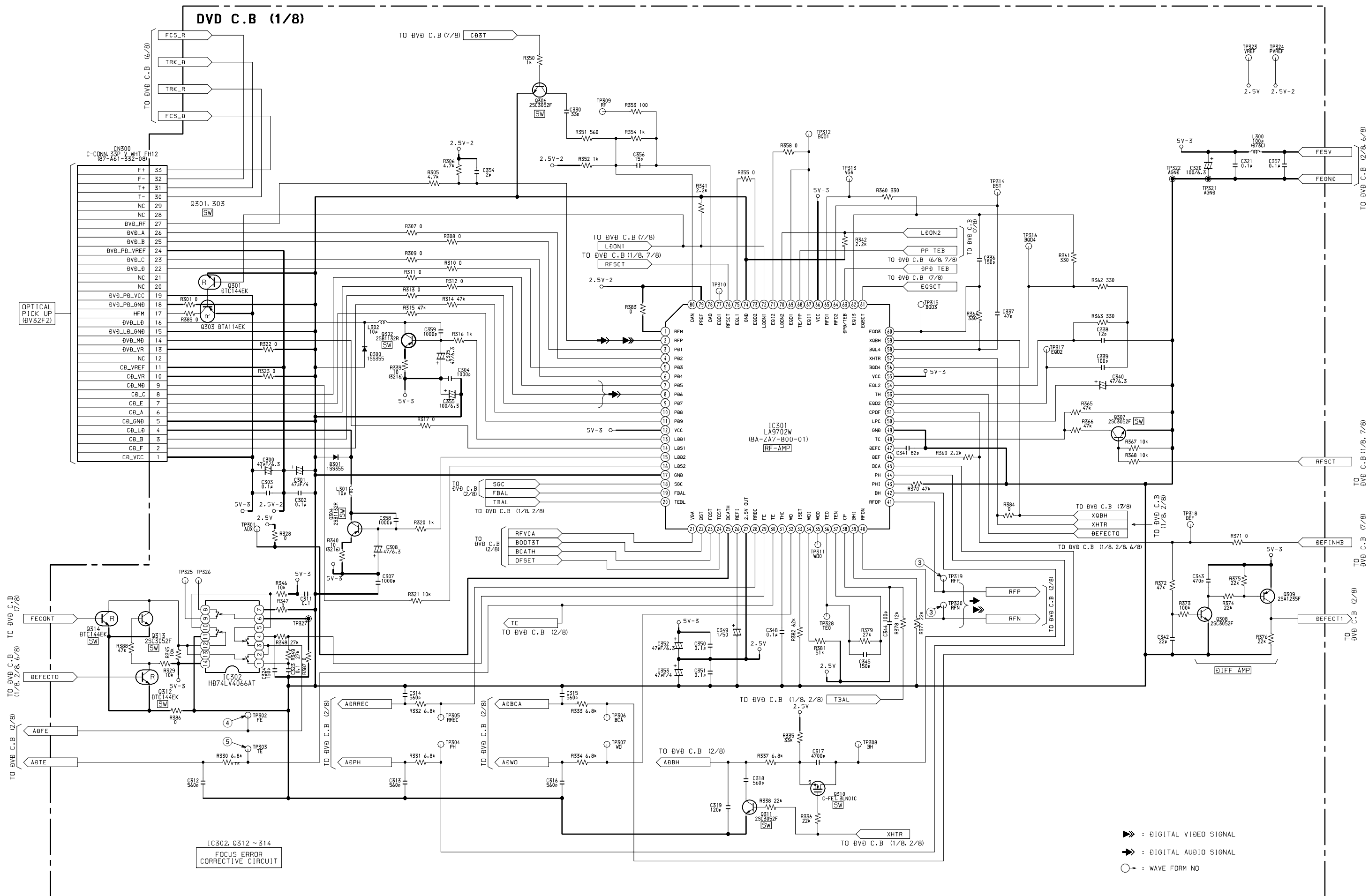
BLOCK DIAGRAM-2/3 (DVD-2/2 : FRONT END)



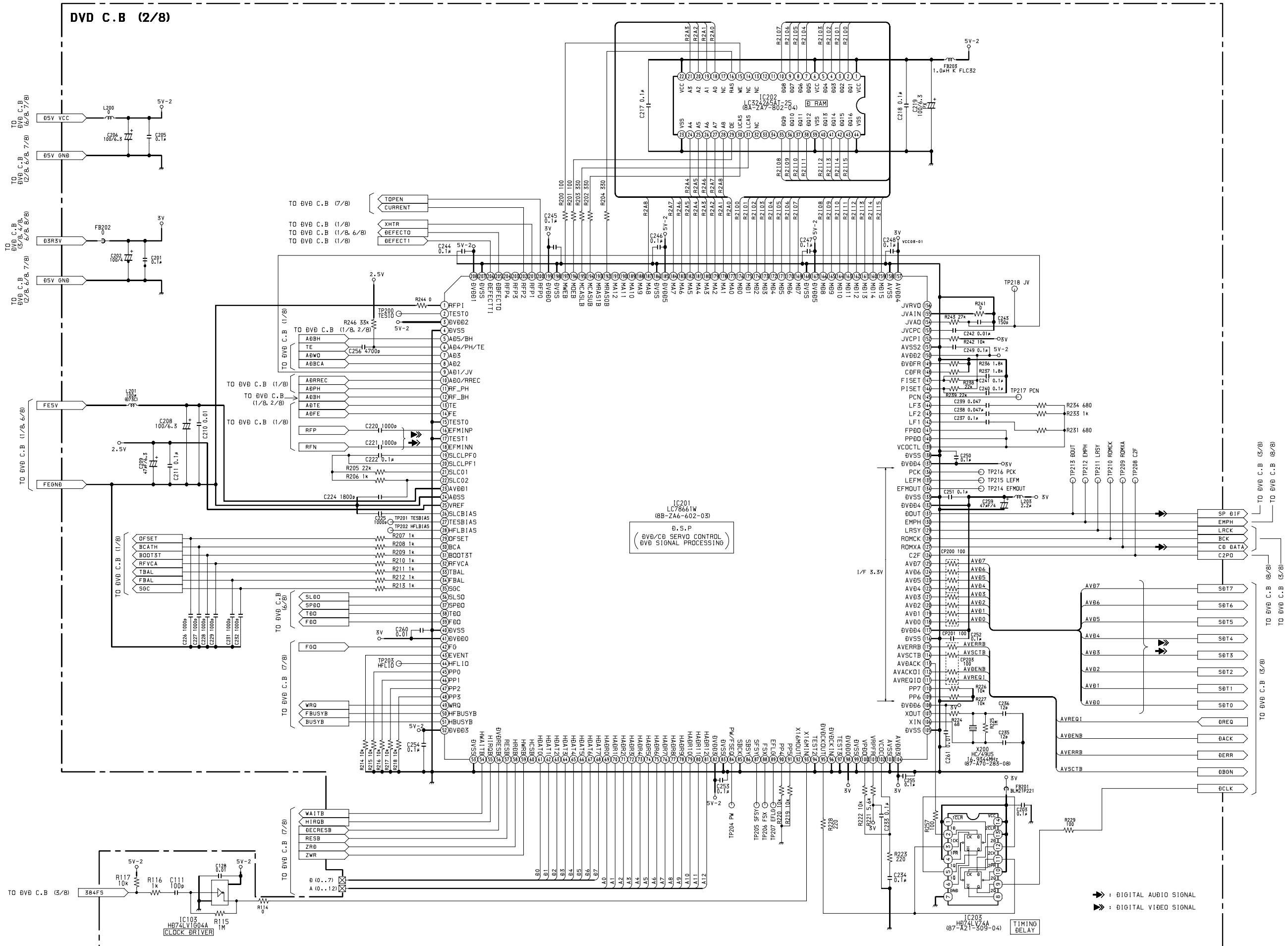




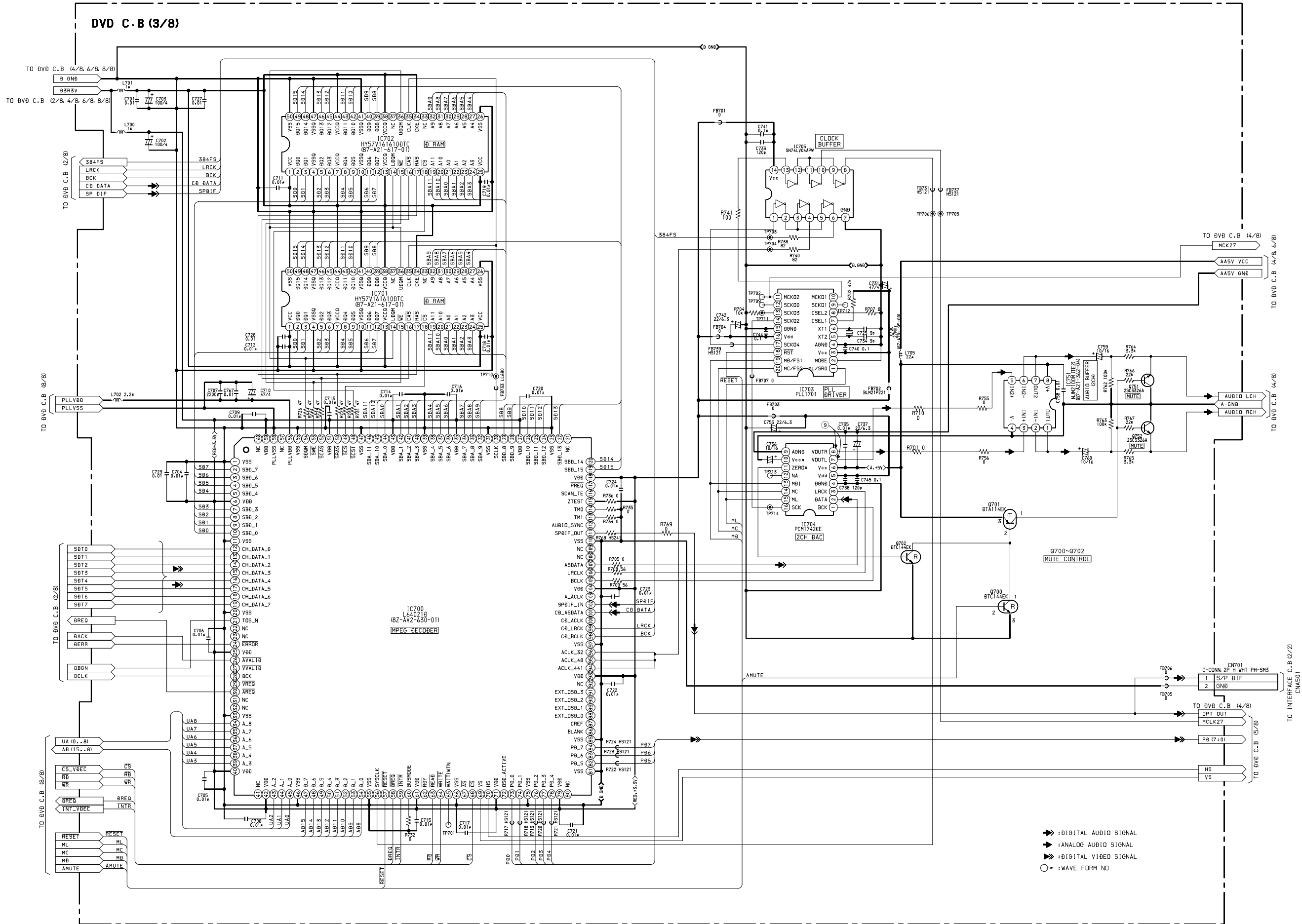


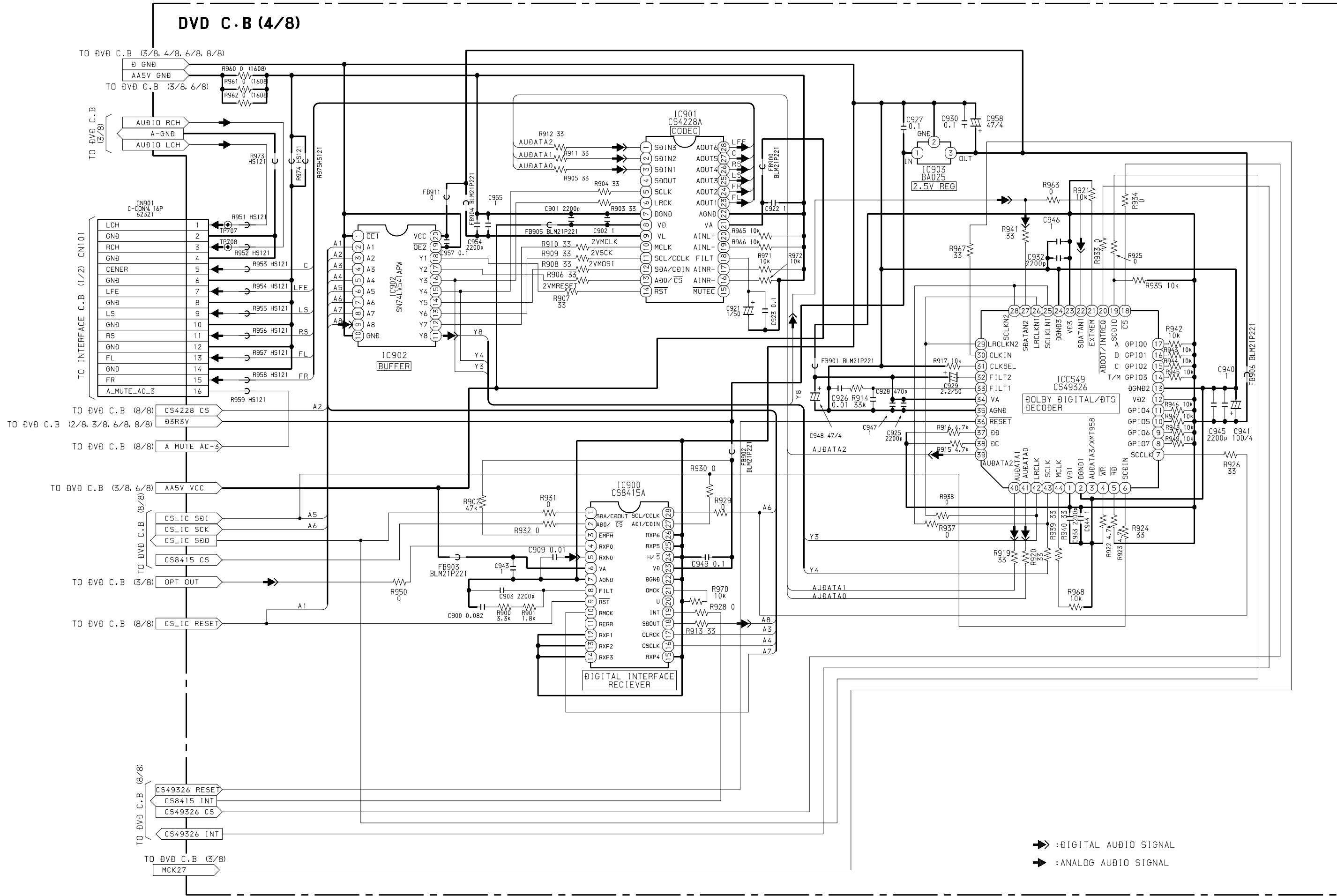


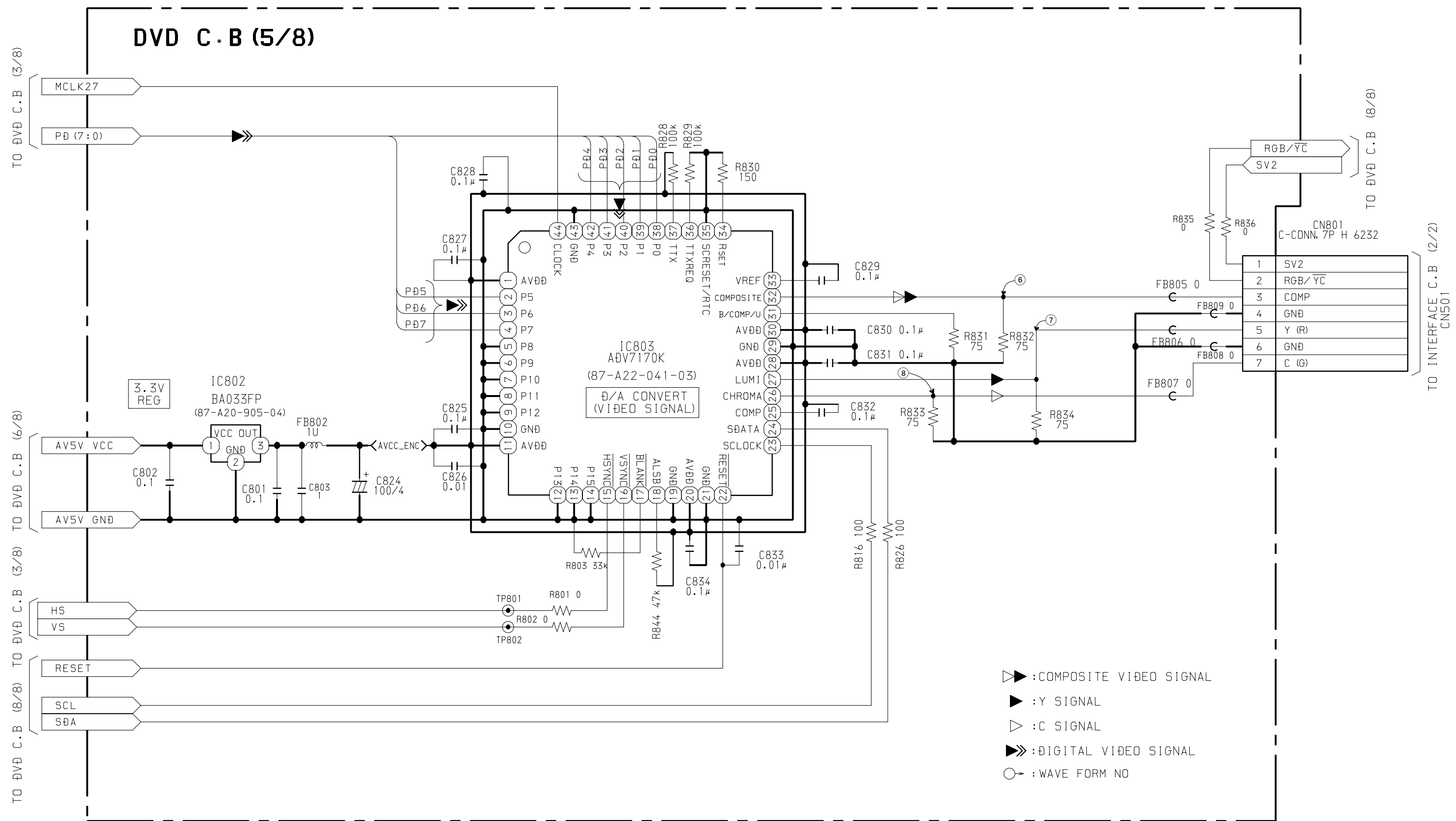
SCHEMATIC DIAGRAM-2/10 (DVD : DSP)



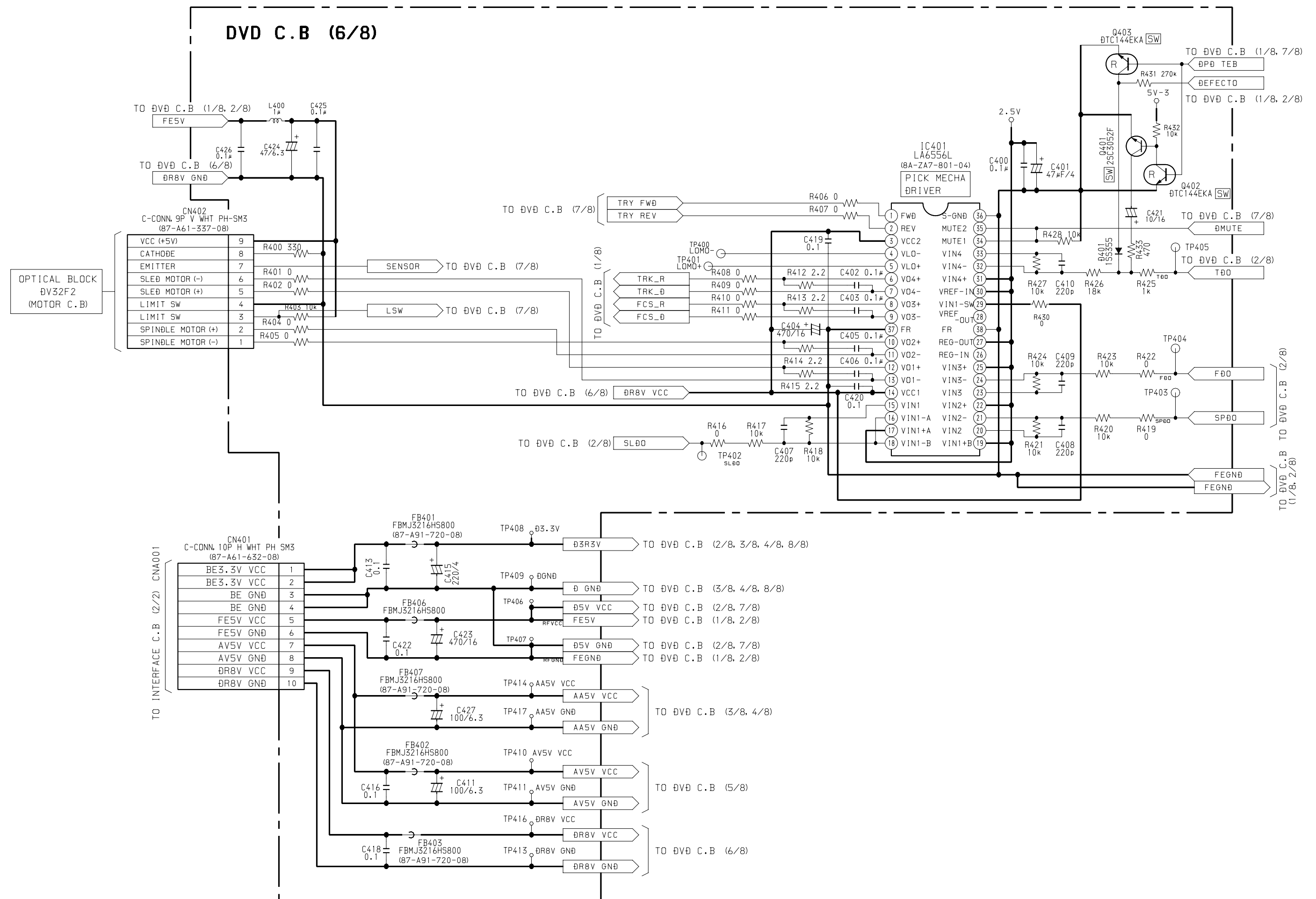
DVD :AV DECODER



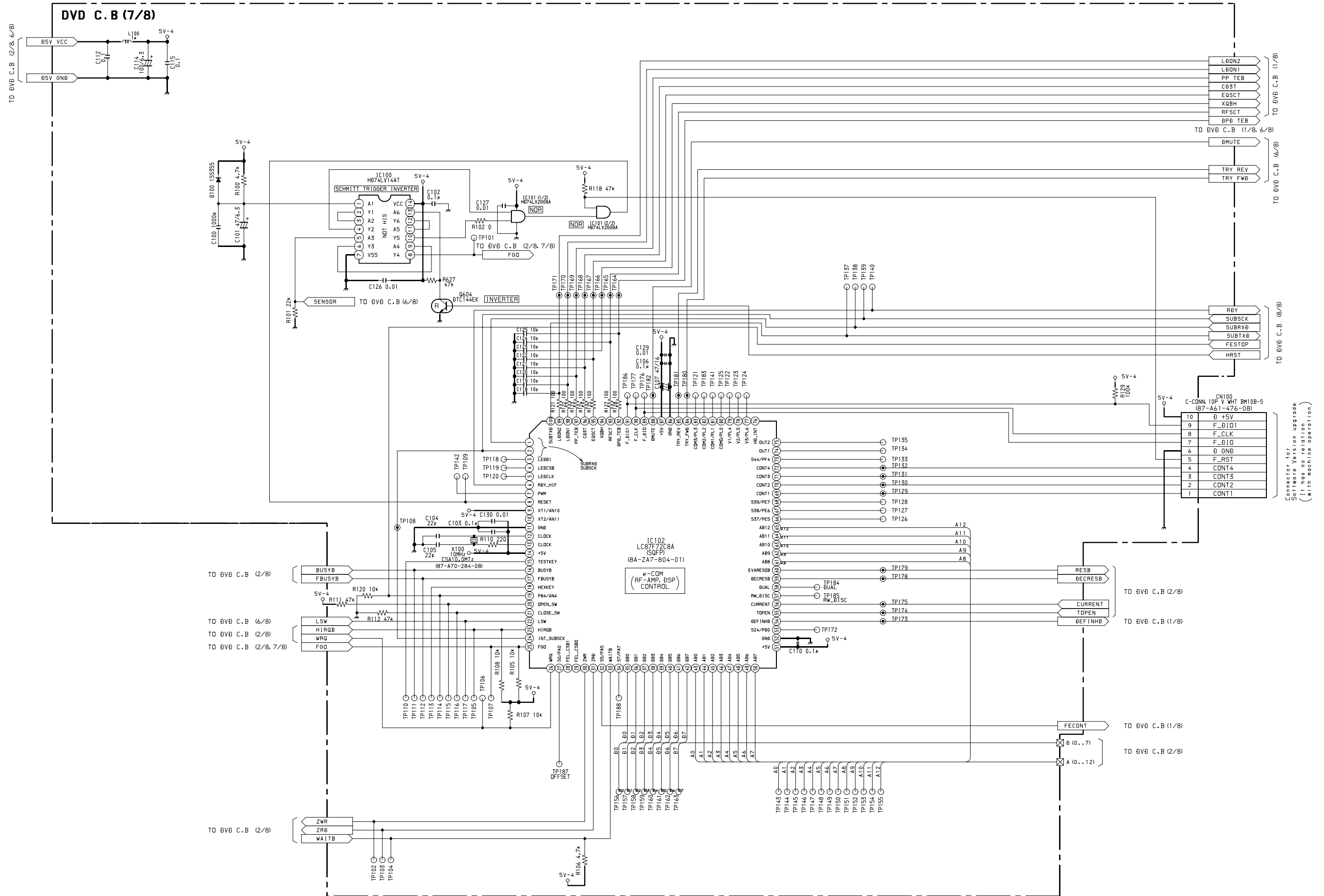




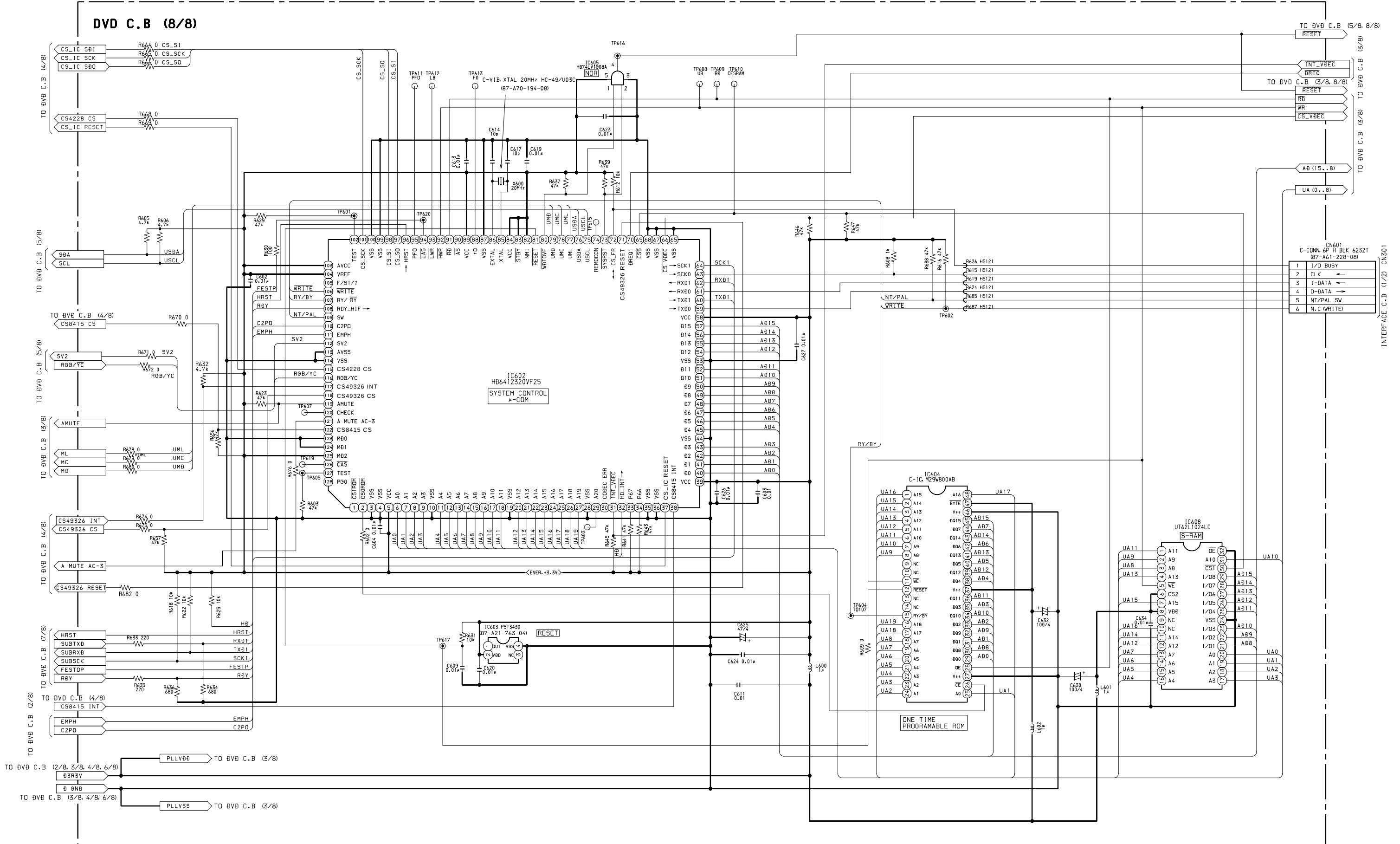
SCHEMATIC DIAGRAM-6-10 (DVD : POWER/SPINDLE DRIVER)

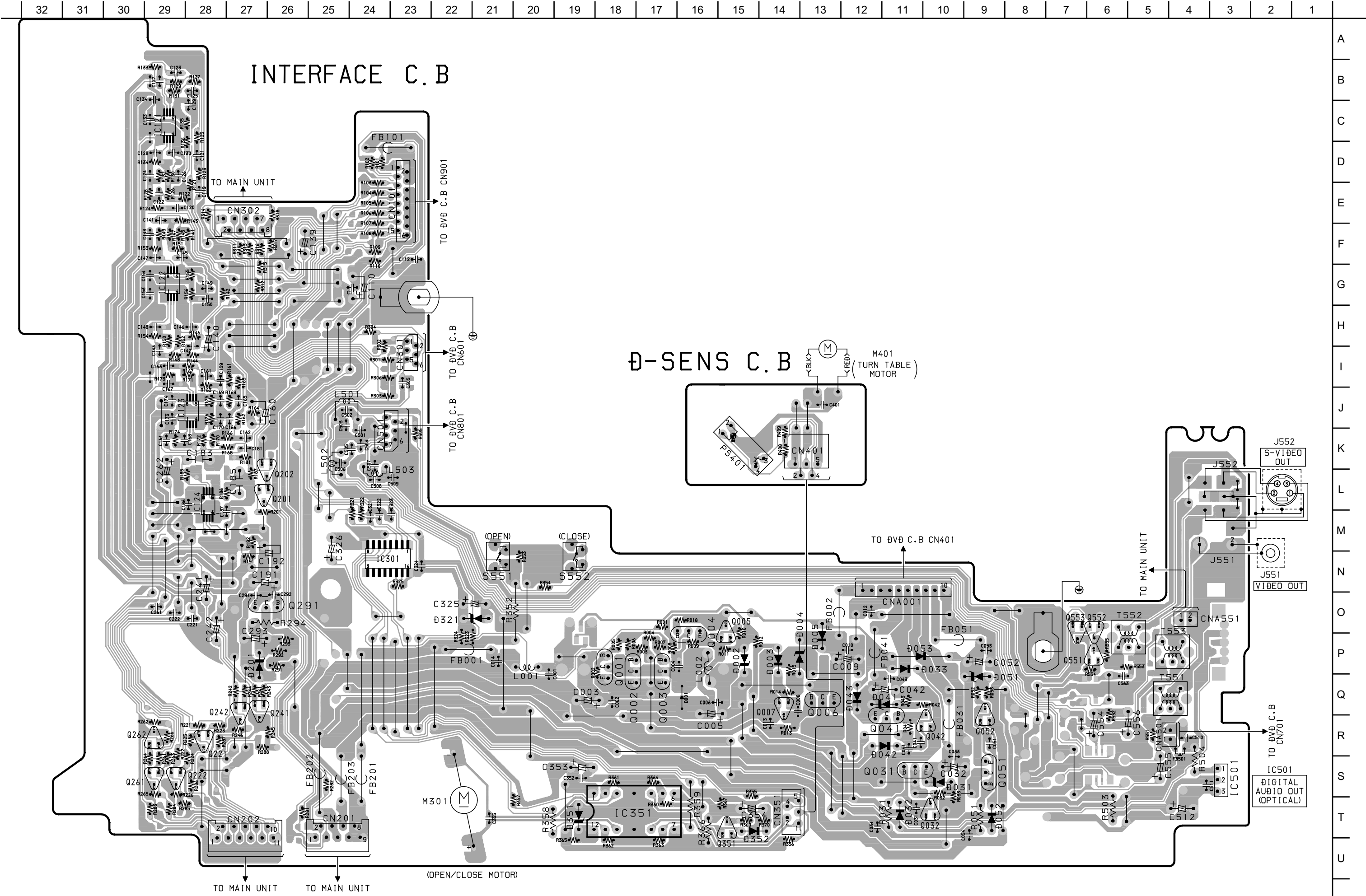


SCHEMATIC DIAGRAM-7/10 (DVD : μ -COM)

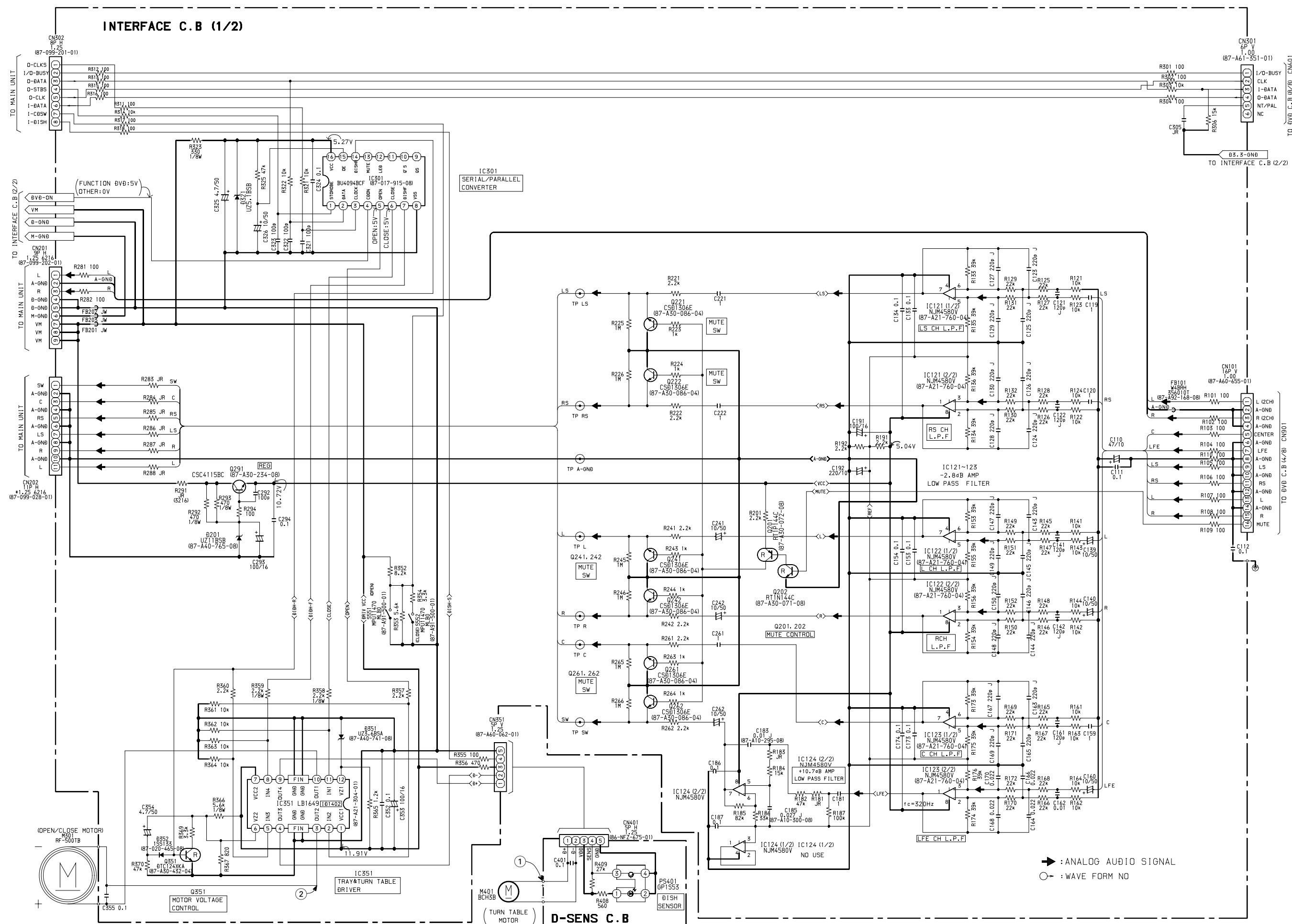


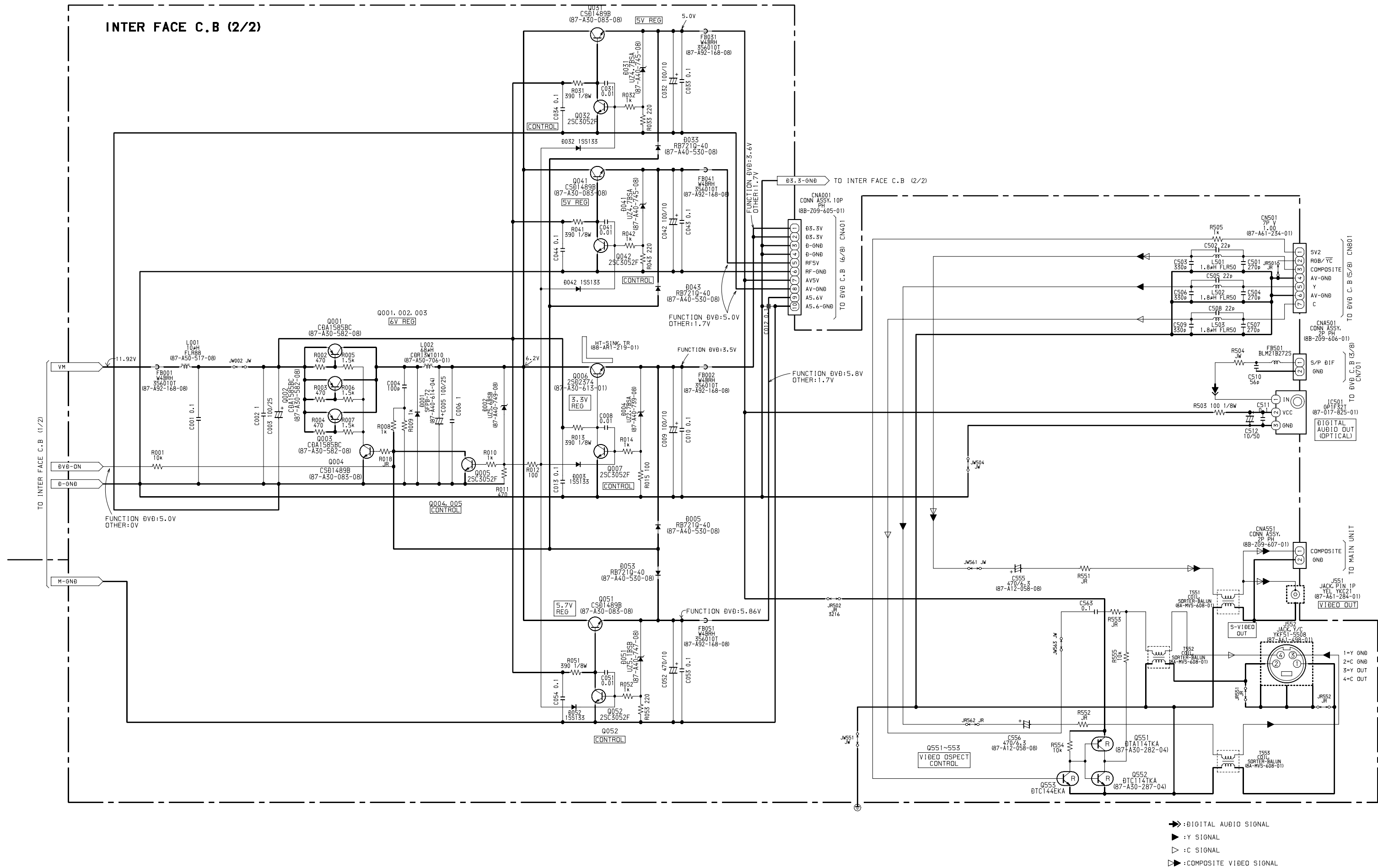
SCHEMATIC DIAGRAM-8/10 (DVD : SYSCON)

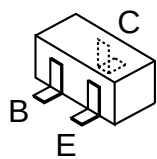




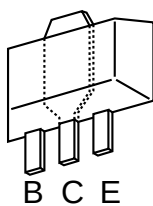
SCHEMATIC DIAGRAM-9/10 (INTER FACE-1/2, D-SENS)



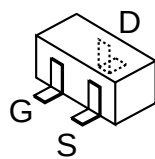




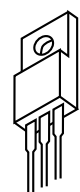
2SA1235
2SC3052F
2SC3326A
CSD1306E
DTA114EK
DTA114TKA
DTC114TKA
DTC124XK
DTC144EK
RT1N144C
RT1P144C



2SB1132



3LN01C



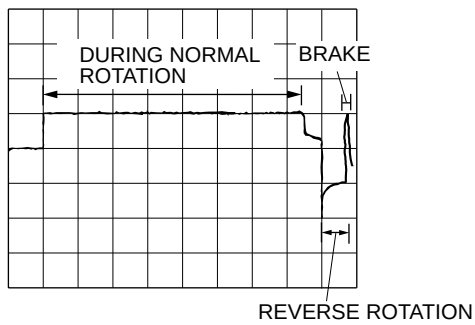
2SD2374



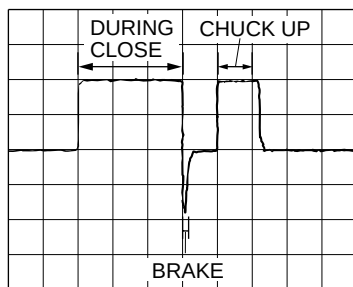
CDA1585BC
CSC4115BC
CSD1489B

WAVE FORM-1/2

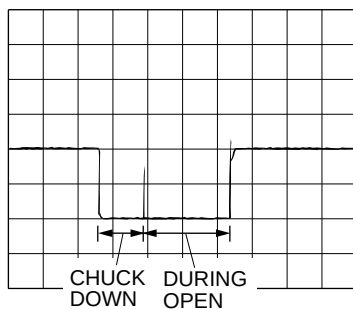
- ① M401 (TURN TABLE MOTOR) (M-Side is the reference) VOLT/DIV: 2V
TIME/DIV: 200mS



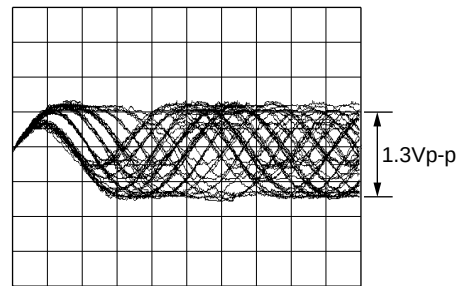
- ② IC351 Pin③ (OUT2) (OPEN/CLOSE MOTOR) (M+Side is the reference) VOLT/DIV: 2V
TIME/DIV: 500mS



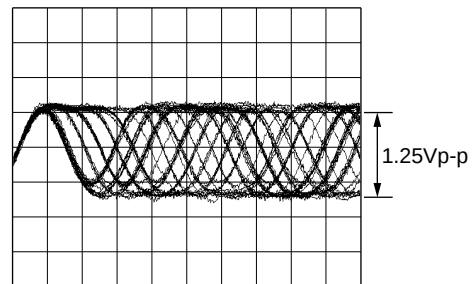
VOLT/DIV: 2V
TIME/DIV: 500mS



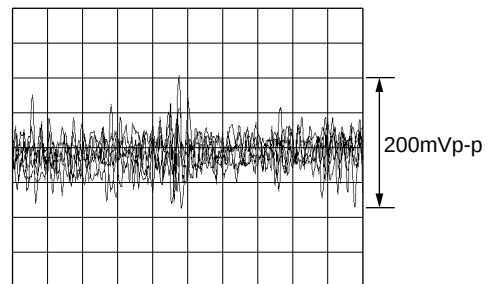
- ③ TP319 (RFP), TP320 (RFN) (DVD) VOLT/DIV: 500mV
TIME/DIV: 50nS



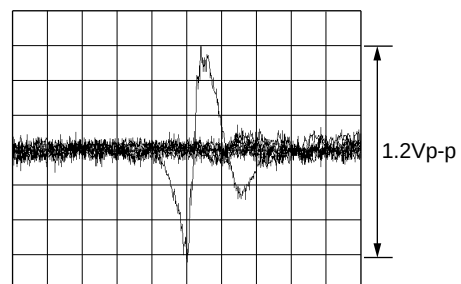
TP319 (RFP), TP320 (RFN) (CD) VOLT/DIV: 500mV
TIME/DIV: 50nS



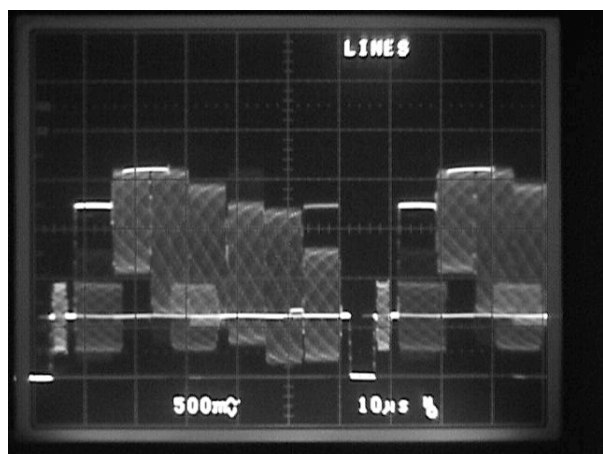
- ④ TP302 (FE) VOLT/DIV: 50mV
TIME/DIV: 50nS



- ⑤ TP303 (TE) VOLT/DIV: 200mV
TIME/DIV: 200μS

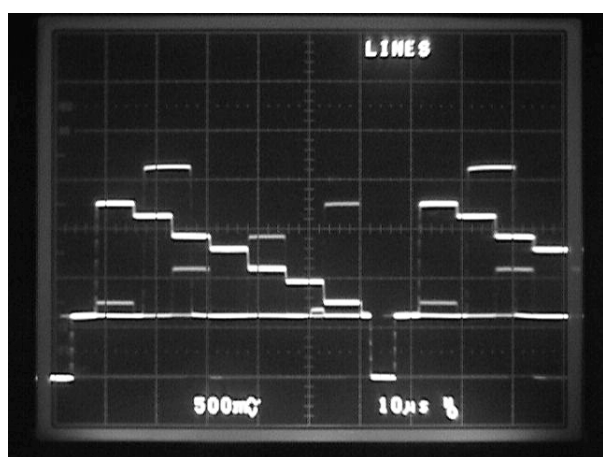


WAVE FORM-2/2



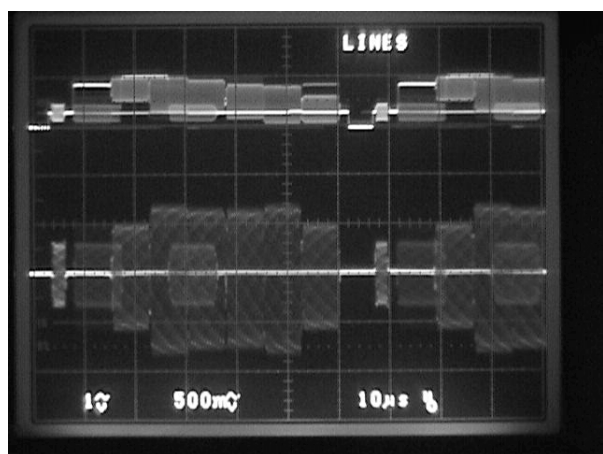
⑥ IC803 pin³² (COMPOSITE)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 500mV
TIME/DIV: 10µS



⑦ IC803 pin²⁷ (LUMI)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 500mV
TIME/DIV: 10µS

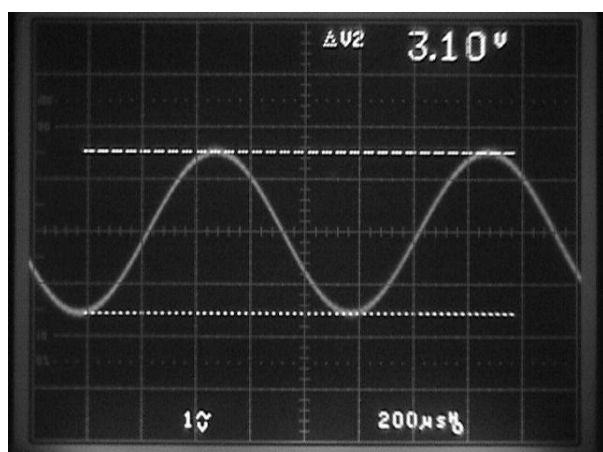


⑥ IC803 pin³² (COMPOSITE)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 1V
TIME/DIV: 10µS

⑧ IC803 pin²⁶ (CHROMA)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

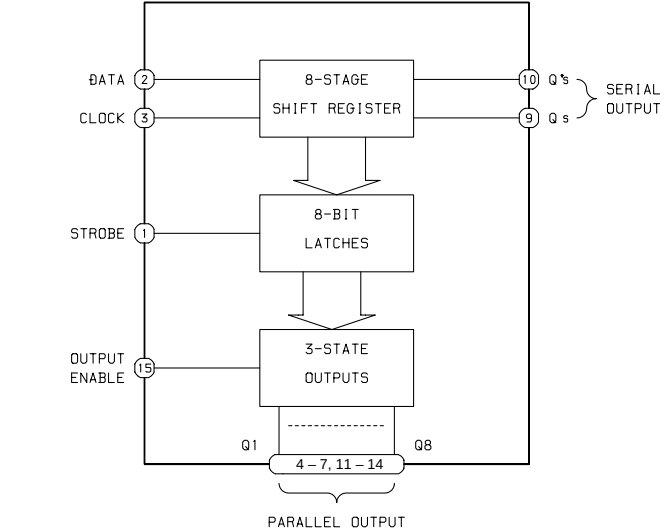
VOLT/DIV: 500mV
TIME/DIV: 10µS



⑨ IC704 Pin⁷ (VOUTL)
IC704 Pin⁸ (VOUTR)
PLAY: NTSC COLOR BAR

VOLT/DIV: 1V
TIME/DIV: 200µS

IC BLOCK DIAGRAM-1/3
IC, BU4094BCF

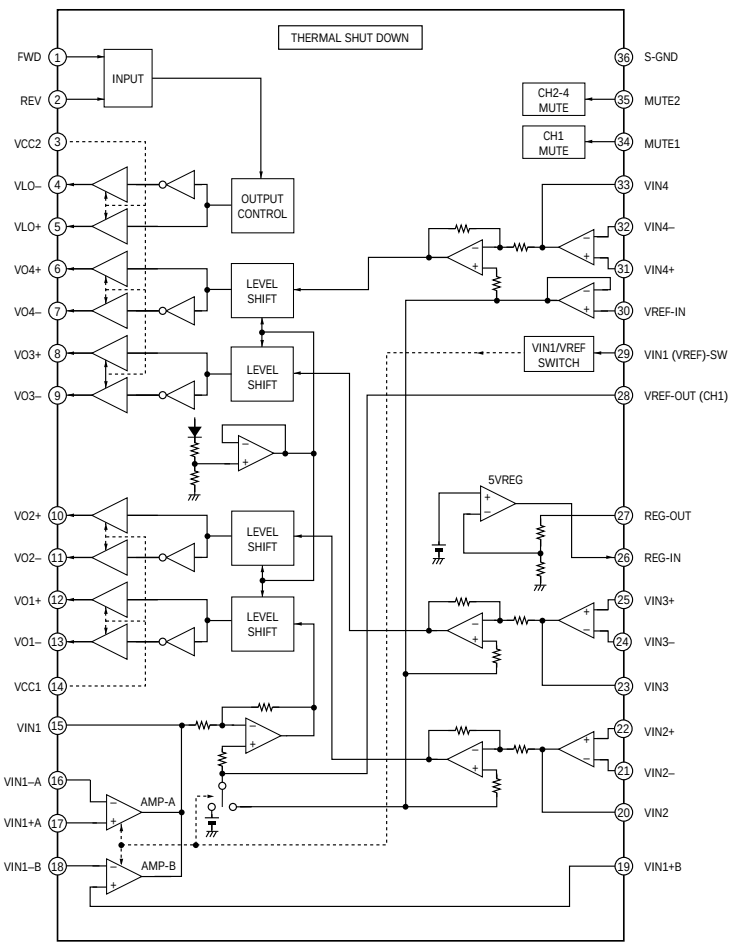


TRUTH TABLE

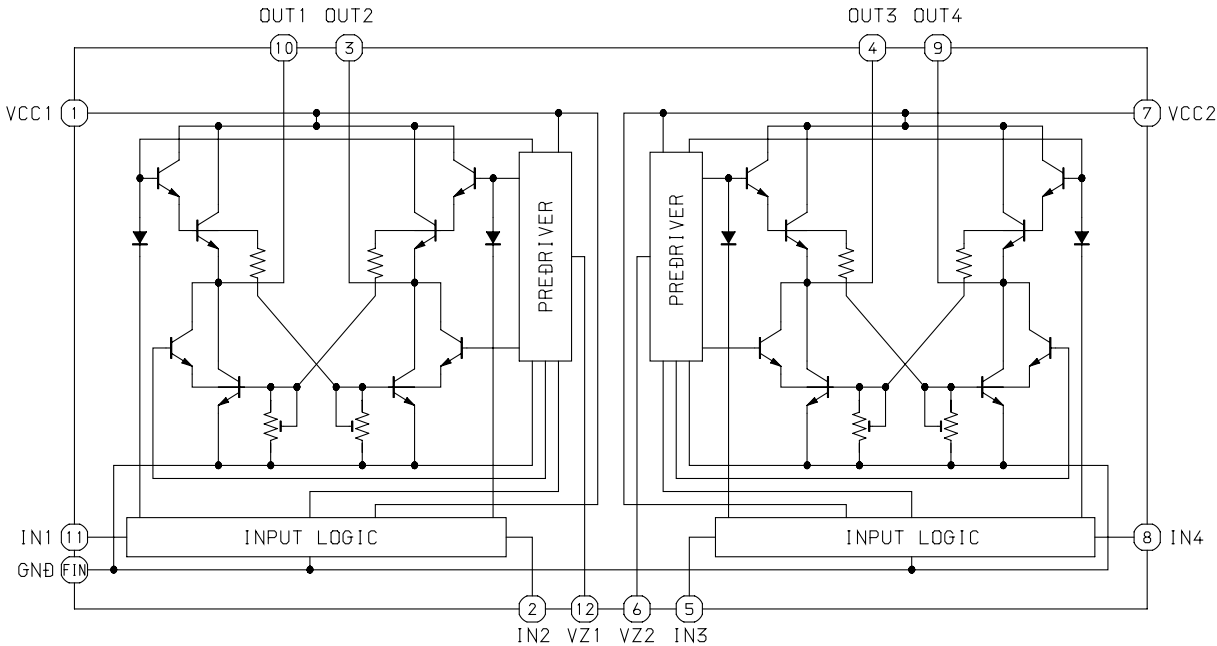
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	No Chg.
	L	X	X	Z	Z	No Chg.	Qs
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance
X=Don't Care

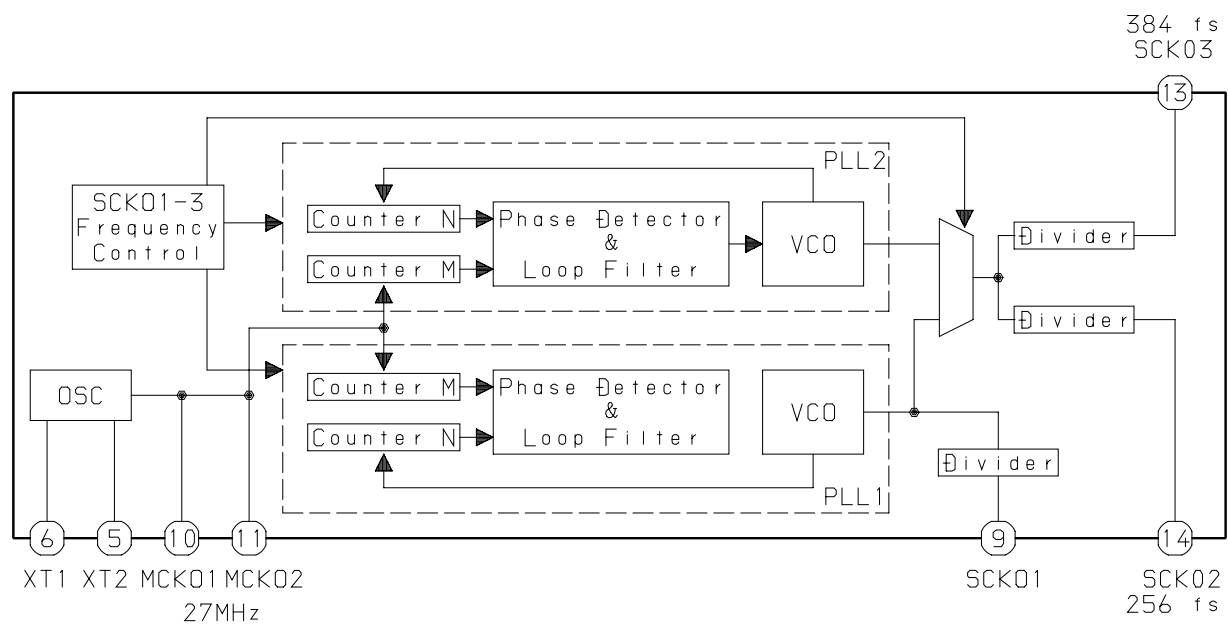
IC, LA6556L



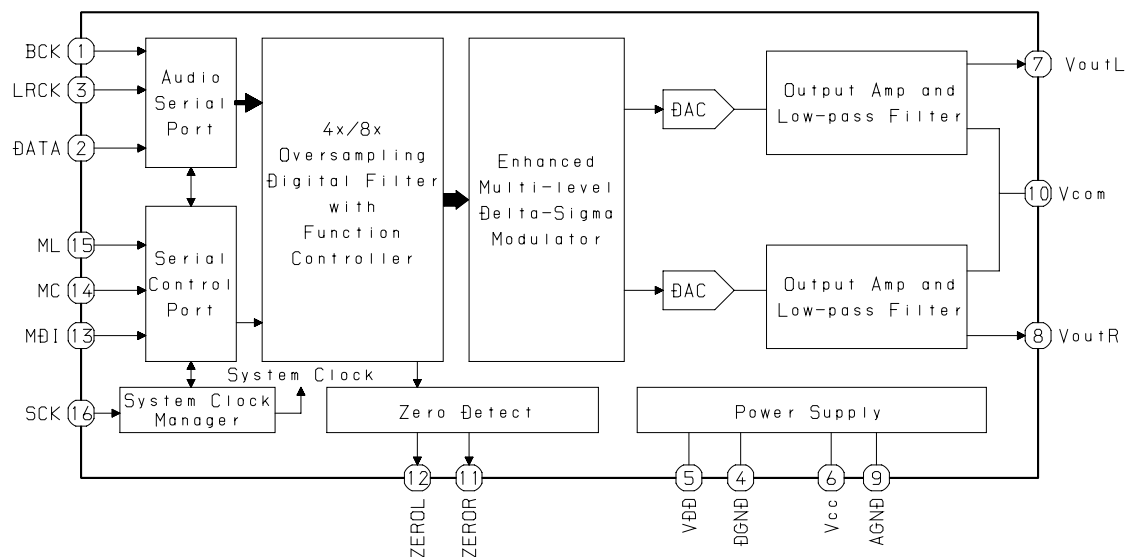
IC, LB1649



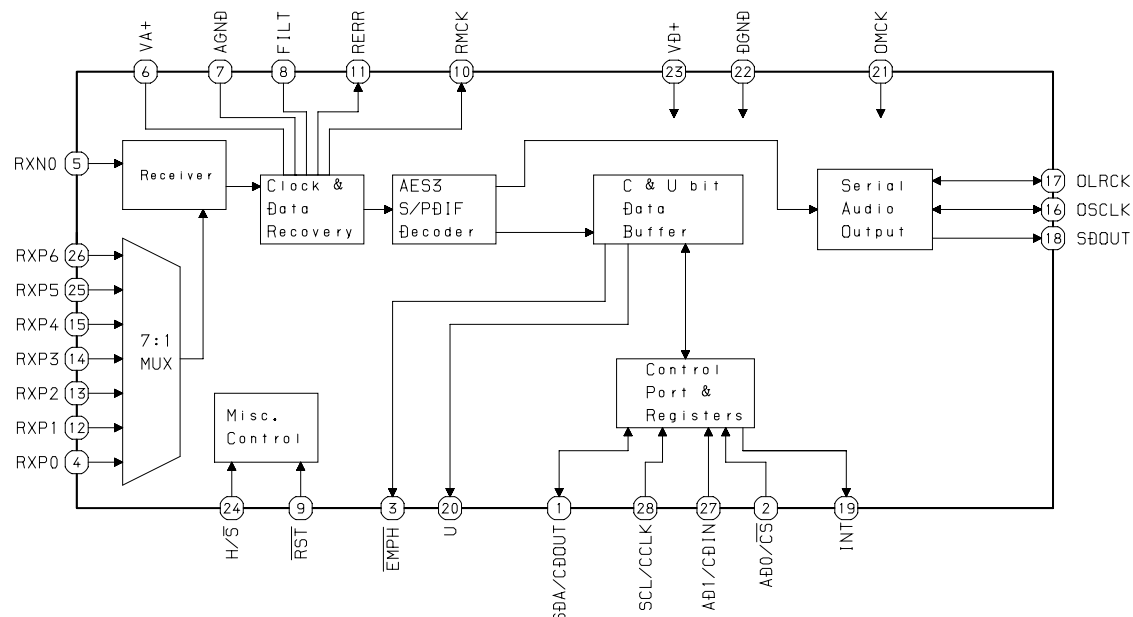
IC BLOCK DIAGRAM-2/3
IC, PLL1701



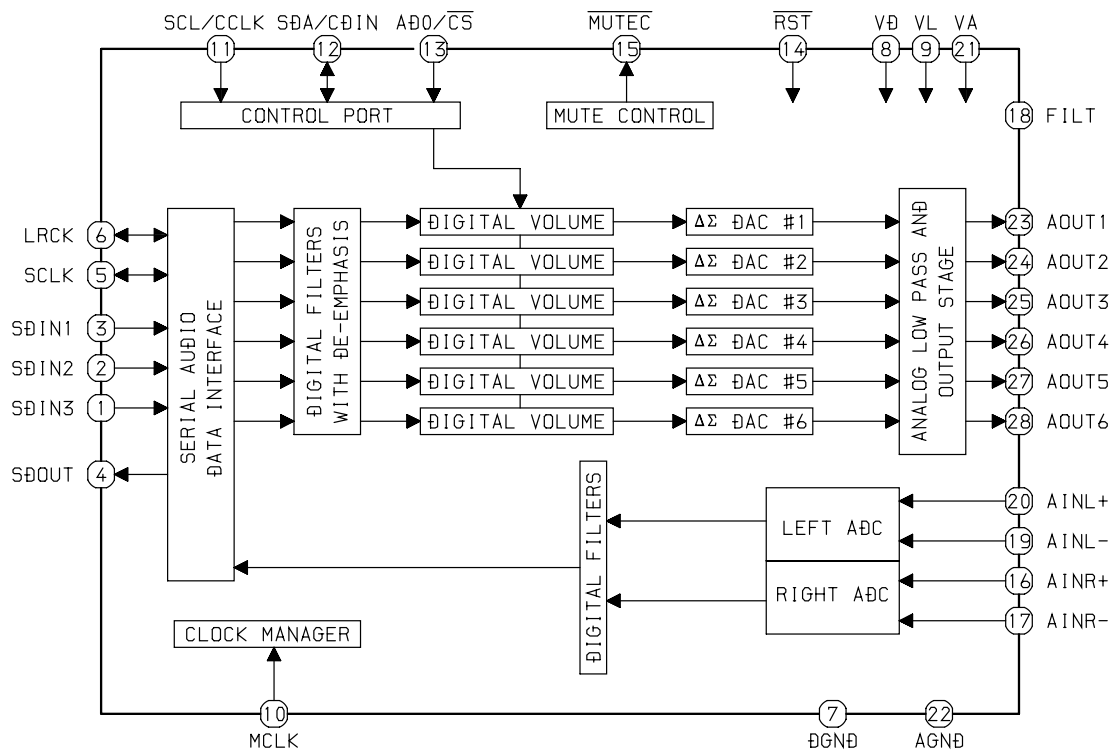
IC, PCM1742 KE



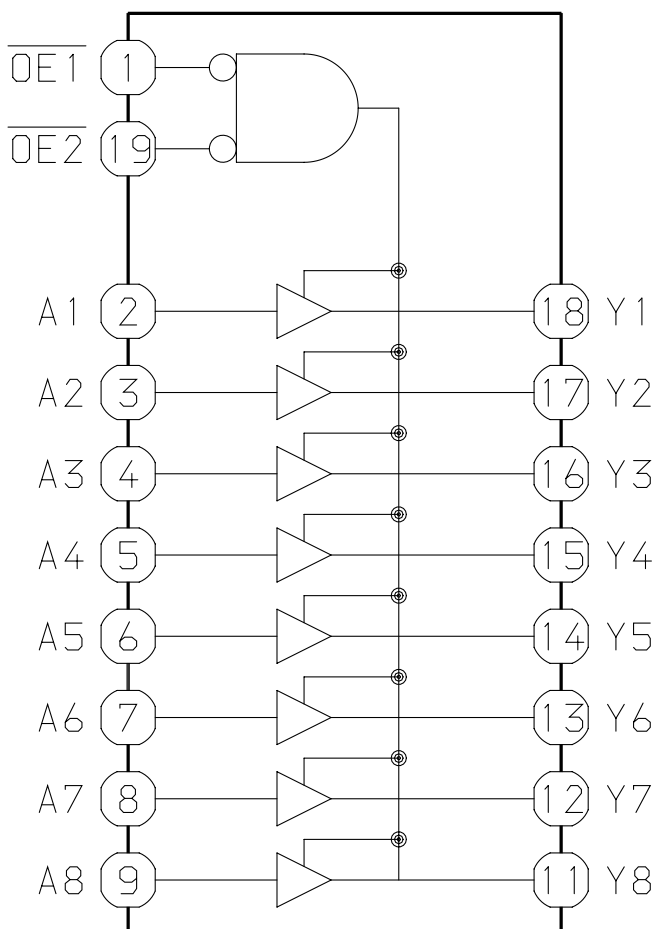
IC, CS8415A



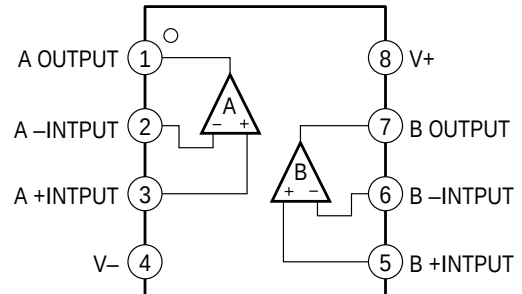
IC BLOCK DIAGRAM-3/3
IC, CS4228A



IC, SN74LV541APW



IC, NJM2100



IC DESCRIPTION-1/7 (LC87F72C8A)-1/2

Pin No.	Pin Name	I/O	Description
1	SUBRXD	I	DATA input terminal for LOADER serial communication control.
2	SUBSCK	I	Clock input terminal for LOADER serial communication control.
3	LEDD1	O	Detection of LEDD1.
4	LEDCSB	O	Detection of LEDCSB.
5	LEDCLK	O	Detection of LEDCLK.
6	RDY_HIF	O	LOADER READY signal output terminal.
7	PWM	O	Detection of PWM.
8	RESET	I	Reset signal input terminal.
9	XT1/AN10	I	Input for 32.768kHz crystal oscillation. AD input port: AN10. (Connected to power supply)
10	XT2/AN11	I/O	Out put for crystal oscillation. AD input port: AN11. (Not Connected)
11	GND	—	GND.
12	CLOCK	I	In put for 10MHz crystal oscillation.
13	CLOCK	O	Out put for 10MHz crystal oscillation.
14	5V	—	Power supply 5V.
15	TESTKEY	O	TESTKEY output pin.
16	BUSYB	I	DSP command dispose busy signal input pin.
17	FBUSYB	I	DSP command receiver busy signal input pin.
18	HEXKEY	O	Detection of HEXKEY.
19	P84/AN4	I	Detection of P84/AN4.
20	OPEN_SW	I	Detection of OPEN SW. (Pull up)
21	CLOSE_SW	I	Detection of CLOSE SW pin. (Pull down)
22	LSW	I	LIMIT SW input pin.
23	HIRQB	I	Interrupt signal input pin.
24	INT_SUBSCK	I	Clock input terminal for LOADER serial communication control.
25	FGO	I	SENDER input.
26	WRQ	I	Subcode Q read ready monitor input.
27	S0/PA0	O	LCD display segment output.
28	FEL_CSBI	O	Chip select signal output pin. (Not Connected)
29	FEL_CSBO	O	Chip select signal output pin. (Not Connected)
30	ZWR	O	Write signal output pin.
31	ZRD	O	Read signal output pin.
32	S5/PA5	O	FECONT control output pin.
33	WAITB	I	Wait signal input pin.
34	S7/PA7	I/O	Detection of S7/PA7.
35-42	DB0-7	I/O	Data 0-7.
43-50	AB0-7	O	Address 0-7.
51	5V	—	Power supply 5V.
52	GND	—	GND.
53	S24/PD0	O	Detection of S24/PD0.
54	DEFINHB	O	DEFINHB control output.
55	TOPEN	I	RF general-purpose port output pin 0.

IC DESCRIPTION-1/7 (LC87F72C8A)-2/2

Pin No.	Pin Name	I/O	Description
56	CURRENT	I	RF general-purpose port output pin 2.
57	RW_DISC	O	RW DISC control output pin.
58	DUAL	O	DUAL control output pin.
59	DECRESB	O	Decoder reset output pin.
60	EVARESOB	O	System reset output pin.
61-65	AB8-12	O	Address 8-12.
66-68	S37-39/PE5-7	O	Detection of S37-39/PE5-7.
69-72	CONT1-4	O	CONT1-4 output pin.
73	S44/PF4	O	Detection of S44/PF4.
74, 75	OUT 1, 2	O	Detection of OUT 1, 2.
76	HD_INT	O	Interriopt signal for AV DECODER IC/TEST PIN. (Not Connected)
77-79	V3-1/PL6-4	O	Detection of V3-1/PL6-4.
80-83	COM0-3/PL0-	O	Detection of COM0-3/PL0-3.
84	3TRY_FWD	O	TRY control output.
85	TRY_REV	O	TRY control output.
86	GND	—	GND.
87	5V	—	Power supply pin (+).
88	DMUTE	O	MUTE output pin.
89	F_DIO	O	F_DIO output pin.
90	F_CLK	O	F_CLK output pin.
91	F_DIOI	O	F_DIOI output pin.
92	DPD_TEB	O	DPD_TEB output.
93	RFSCCT	O	RFSCCT control output.
94	XQBH	O	XQBH out put. (Not Connected)
95	EQSCT	O	EQSCT output.
96	CD3T	O	CD3T control output.
97	PP_TEB	O	PP TEB output.
98, 99	LDON1, 2	O	LDON 1, 2 output.
100	SUBTXD	O	DATA output terminal for LOADER serial communication control.

IC DESCRIPTION-2/7 (LC78661W)-1/4

Pin No.	Pin Name	I/O	Description
1	RFPI	I	RF input port pin. (Pull down)
2	TEST0	I/O	Tracking margin signal I/O pin.
3	DVDD2	—	A/D D/A internal logic power supply. [Digital 5V]
4	DVSS	—	Digital GND.
5	AD5/BH	I	Servo A/D input pin. (AD5: Assistant input 5)
6	AD4/PH/TE	I	Servo A/D input pin. (AD4: Assistant input 4)
7	AD3	I	Servo A/D input pin. (AD3: Assistant input 3)
8	AD2	I	Servo A/D input pin. (AD2: Assistant input 2)
9	AD1/JV	I	Servo A/D input pin. (AD1: Assistant input 1)
10	AD0/RREC	I	Servo A/D input pin. (AD0: Assistant input 0)
11	RF_PH	I	Servo A/D input pin. (RF_PH: RF peak hold signal)
12	RF_BH	I	Servo A/D input pin. (RF_BH: RF bottom hold signal)
13	TE	I	Servo A/D input pin. (TE: Tracking error signal)
14	FE	I	Servo A/D input pin. (FE: Focus error signal)
15	TEST0	I	Test input pin 0. (L Fixed)
16	EFMINP	I	EFM/EFM+input pin.
17	TEST1	I	Test input pin 1. (L Fixed)
18	EFMINN	I	EFM-input pin.
19	SLCLPF0	—	SLC LPF pin.
20	SLCLPF1	—	SLC LPF pin.
21	SLC01	—	SLC control pin.
22	SLC02	—	SLC control pin.
23	AVDD1	—	A/D D/A SLC power supply. [Analog 5V]
24	ADSS	—	Analog GND.
25	VREF	O	Servo D/A standard voltage. [2.5V]
26	SLCBIAS	O	Servo D/A output pin. (SLCBIAS: SLC standard voltage signal)
27	TESBIAS	O	Servo D/A output pin. (TESBIAS: TES standard voltage signal)
28	HFLBIAS	O	Servo D/A output pin. (HFLBIAS: HFL standard voltage signal)
29	OFFSET	O	Servo D/A output pin. (OFFSET: Assistant signal)
30	BCA	O	Servo D/A output pin. (BCA: Assistant signal)
31	BOOT3T	O	Servo D/A output pin. (BOOT3T: Assistant signal)
32	RFVCA	O	Servo D/A output pin. (RFVCA: Assistant signal)
33	TBAL	O	Servo D/A output pin. (TBAL: Tracking balance control signal)
34	FBAL	O	Servo D/A output pin. (FBAL: Focus balance control signal)
35	SGC	O	Servo D/A output pin. (SGC: Assistant signal)
36	SLSO	O	Servo D/A output pin. (SLSO: Thread control signal)
37	SPDO	O	Servo D/A output pin. (SPDO: Spindle control signal)
38	TDO	O	Servo D/A output pin. (TDO: Tracking control signal)
39	FDO	O	Servo D/A output pin. (FDO: Focus control signal)
40	DVSS	—	Digital GND.
41	DVDD0	—	Internal logic power supply. [Digital 3.3V]

IC DESCRIPTION-2/7 (LC78661W)-2/4

Pin No.	Pin Name	I/O	Description
42	FG	I	FG counter input pin.
43	EVENT	I	EVENT counter input pin. (Pull down)
44	HFLIO	I/O	Mirror detect signal I/O pins.
45-48	PP0-3	I/O	General-purpose port 0-3. (Pull down)
49	WRQ	O	Subcode Q read ready monitor pin.
50	HFBUSYB	O	DSP command dispose busy signal output pin.
51	HBUSYB	O	DSP command receiver busy signal output pin.
52	DVDD3	—	I/O power supply. [Digital 5V]
53	DVSS	—	Digital GND.
54	HWAITB	O	Wait signal output pin.
55	HIRQB	O	Interrupt signal output pin.
56	DVDRESB	I	Decoder reset input pin.
57	RESB	I	System reset input pin.
58	HRDB	I	Read signal input pin.
59	HWRB	I	Write signal input pin.
60	HCSB	I	Chip select signal input pin. (Not Connected)
61-68	HDAT0-7	I/O	Data0-7.
69-81	HADR0-12	I	Address0-12.
82	DVDD3	—	I/O power supply. [Digital 5V]
83	DVSS	—	Digital GND.
84	PW/FSEQ	O	Subcode [P, Q, R, S, T, U, V and W] data output pin.
85	SBCK	I	Subcode data readout shift clock input pin. (Connected to GND)
86	SBSY	O	Subcode block synchronization signal output pin. (No connected)
87	SFSY	O	Subcode frame synchronization signal output pin.
88	FSX	O	CD1 frame synchronization signal.
89	EFLG	O	Error correction C1, C2 correction conditions monitor pins.
90, 91	PP4, 5	I/O	General-purpose port4, 5. (Pull down)
92	X16MOUT	O	Internal 16MHz output pin. (No connected)
93	X16MIN	I	External 16MHz input pin.
94	TEST2	I	Test input pin2. (L Fixed)
95	DVDCKOUT	O	Internal DVD clock output pin.
96	DVDCKIN	I	External DVD clock input pin. (L Fixed)
97	TEST3	I	Test input pin3. (L Fixed)
98	DVDD0	—	Internal logic power supply. [Digital 3.3V]
99	DVSS	—	Digital GND.
100	VPDO	—	SYSTEM PLL filter connection pin.
101	VRPFR	—	SYSTEM PLL VCO oscillator range adjustment pin.
102	VCOC	—	SYSTEM PLL filter connection pin.
103	AVSS	—	Analog GND.
104	AVDD3	—	SYSTEM VCO power supply. [Analog 3.3V]
105	DVSS	—	Digital GND.

IC DESCRIPTION-2/7 (LC78661W)-3/4

Pin No.	Pin Name	I/O	Description
106	XIN	I	Oscillator circuit input pin. (16.9344MHz)
107	XOUT	O	Oscillator circuit output pin. (16.9344MHz)
108	DVDD6	—	Oscillator circuit power supply. [Digital 3.3V]
109, 110	PP6, 7	I/O	General-purpose port6, 7. (Pull down)
111	AVREQIO	I/O	AV data demand flag I/O pins.
112	AVACKOI	I/O	AV data read strobe output pin.
113	AVDACK	O	AV data read (Clock/Enable) output pins.
114	AVSCTB	O	AV output sector synchronization output pin.
115	AVERRB	O	AV data reliable flag output pin.
116	DVSS	—	Digital GND.
117	DVDD4	—	I/O power supply. [Digital 3.3V]
118-125	AVD0-7	O	AV data0-7.
126	C2F	O	C2 flag output pin.
127	ROMXA	O	CD data output pin.
128	ROMCK	O	CD data output shift lock output pin.
129	LRSY	O	CD data output L/R clock output pin.
130	EMPH	O	Deemphasis monitor pin.
131	DOUT	O	Audio EIAJ data output pin.
132	DVDD4	—	I/O power supply. [Digital 3.3V]
133	DVSS	—	Digital GND.
134	EFMOUT	O	EFM 2 value signal output pin.
135	LEFM	O	Output pin for the signal picked out from EFM binary signal with PCK.
136	PCK	O	EFM playback shift clock output pin.
137	DVDD4	—	Inner logic power supply. [Digital 3.3V]
138	DVSS	—	Digital GND.
139	VCOCTL	—	VCO filter connection pin.
140	PPDO	—	Phase comparison filter connection pin.
141	FPDO	—	Frequency comparison filter connection pin.
142-144	LF1-3	—	Filter connection pin1-3.
145	PCN	—	Voltage monitor pin. (Phase comparison charge pump PCH control voltage)
146	PISET	—	Current setting pin for the constant-current phase comparison charge pump.
147	FISSET	—	Current setting pin for the constant-current frequency comparison charge pump.
148	CDFR	—	EFM playback VCO oscillator range setting pin. [For CD] (Pull down)
149	DVDFR	—	EFM playback VCO oscillator range setting pin. [For DVD] (Pull down)
150	AVDD2	—	EFM PLL JV power supply. [Analog 5V]
151	AVSS2	—	Analog GND.
152, 153	JVCPI, JVCPC	—	JV control pin.
154	JVAO	O	EFM playback PLL clock jitter output pin.
155	JVAIN	—	JV control pin. (Pull down)
156	JVRVO	—	JV control pin. (No connected)
157	AVDD4	—	SYSTEM PLL power supply. [Analog 3.3V]

IC DESCRIPTION-2/7 (LC78661W)-4/4

Pin No.	Pin Name	I/O	Description
158	AVSS	—	Analog GND.
159-166	MD15-8	I/O	DRAM data15-8.
167	DVDD5	—	I/O power supply. [Digital 5V]
168	DVSS	—	Digital GND.
169-176	MD7-0	I/O	DRAM data7-0.
177-184	MA0-7	O	DRAM address0-7.
185	DVDD5	—	I/O power supply. [Digital 5V]
186	DVSS	—	Digital GND.
187	MA8	O	DRAM address8.
188-191	MA9-12	O	DRAM address9-12. (No connected)
192	MRAS0B	O	RAS output pin0.
193	MRAS1B	O	RAS output pin1. (No connected)
194	MCASUB	O	CAS output pin. (Upper Byte)
195	MCASLB	O	CAS output pin. (Lower Byte)
196	MOEB	O	OE output pin.
197	MWEB	O	WE output pin.
198	DVSS	—	Digital GND.
199	DVDD0	—	Inner logic power supply. [Digital 3.3V]
200-204	RFP0-4	O	RF general-purpose port output pin0-4.
205	DBFECTO	O	Defect signal output pin.
206	DEFECTTI	I	Defect signal input pin.
207	DVSS	—	Digital GND.
208	DVDD1	—	I/O power supply. [Digital 5V]

IC DESCRIPTION-3/7(LA9702W)-1/2

Pin No.	Pin Name	I/O	Description
1	RFM	I	RF signal - input. (Pull up)
2	RFP	I	RF signal + input.
3	PD1	I	Pickup signal input.
4	PD2	I	Pickup signal input.
5	PD3	I	Pickup signal input.
6	PD4	I	Pickup signal input.
7	PD5	I	Pickup signal input.
8	PD6	I	Pickup signal input.
9	PD7	I	Pickup signal input.
10	PD8	I	Pickup signal input.
11	PD9	I	Pickup signal input.
12	VCC	—	Power supply. (Servo signal system)
13	LDD1	O	APC1 output.
14	LDS1	I	APC1 monitor voltage input.
15	LDD2	O	APC2 output.
16	LDS2	I	APC2 monitor voltage input.
17	GND	—	Ground. (Servo signal system)
18	SGC	I	Servo gain control terminal. (RREC, FE, TE)
19	FBAL	I	Focus balance adjustment terminal.
20	TEBL	I	Tracking balance adjustment terminal.
21	VGA	I	RF gain adjustment terminal.
22	BST	I	Equalizer boost adjustment terminal.
23	FOST	I	Focus offset adjustment terminal.
24	TOST	I	Tracking offset adjustment terminal.
25	BCATH	I	BCA threshold adjustment terminal.
26	REFI	I	Reference voltage setting terminal.
27	2.5V OUT	O	Reference voltage output for servo signal.
28	RRBC	O	Reflection output.
29	FE	O	Focus error output.
30	TE	O	Tracking error output.
31	THC	—	External capacitor for setting TE hold time constant is connected to this terminal.
32	WO	O	Warble output terminal.
33	ISSET	—	External resistor for setting BPF center frequency is connected to this terminal. (Pull down)
34	WOI	I	Push-pull signal input.
35	WOO	O	Push-pull signal output.
36	TEO	—	TE gain setting terminal for 3 beam.
37	TEN	—	TE gain setting terminal for 3 beam.
38	CP	—	External resistor and capacitor for setting charge pump gain, are connected to this terminal.
39	BHI	—	External resistor for setting bottom hold detection constant, is connected to this terminal. (Pull down)
40	RFON	O	RF - output.

IC DESCRIPTION-3/7 (LA9702W)-2/2

Pin No.	Pin Name	I/O	Description
41	RFOP	O	RF + output.
42	BH	O	RF bottom detection output.
43	PHI	—	External resistor for setting peak hold detection constant, is connected to this terminal. (Pull down).
44	PH	O	RF peak detection output.
45	BCA	O	BCA output.
46	DEF	O	Defect output. (H: Defect detection)
47	DEFC	—	External resistor for defect detection is connected to this terminal.
48	TC	—	External resistor for setting defect detection constant is connected to this terminal.
49	GND	—	Ground. (DPD system)
50	LPC	—	External capacitor for RF DC servo is connected to this terminal.
51	CPOF	I	Charge pump OFF terminal. (H: OFF)
52	EQO2	—	RF equalizer setting terminal.
53	TH	I	Tracking hold. (H: Hold)
54	EQL2	I	RF equalizer setting terminal.
55	VCC	—	Power supply. (DPD system)
56	EQO4	O	RF equalizer setting terminal.
57	XHTR	I	Tracking bottom detection band switch. (L: High band)
58	BQL4	I	RF equalizer setting terminal.
59	XQBH	I	Bottom detection constant switch. (L: High speed)
60	EQO3	O	RF equalizer setting terminal.
61	EQSCT	I	Equalizer switcher. (H: 77-pin selection, L: 52-pin selection)
62	EQI3	I	RF equalizer setting terminal.
63	DPD/TEB	I	DPD 3-beam tracking switcher. (H: DPD)
64	RFO2	O	RF output.
65	RFO1	O	RF output.
66	VCC	—	Power supply. (RF system)
67	EQI1	I	RF equalizer setting terminal.
68	TE/PP	I	3-beam push-pull tracking switcher. (L: 3-beam)
69	EQO1	O	RF equalizer setting terminal.
70	LDON2	I	APC2 laser ON terminal. (H: ON)
71	EQI2	I	RF equalizer setting terminal.
72	LDON1	I	APC1 laser ON terminal. (H: ON)
73	EQO2	O	RF equalizer setting terminal.
74	GND	—	Ground. (RF system)
75	EQL1	I	RF equalizer setting terminal.
76	RFSCCT	I	RF input switcher. (H: RF different input, PP error)
77	EQO1	O	RF equalizer setting terminal.
78	CAO	O	Customer amplifier output.
79	PREF	—	Reference voltage output. (for pick)
80	OAN	I	Customer amplifier input.

IC DESCRIPTION-4/7 (HD6412320VF25)-1/3

Pin No.	Pin Name	I/O	Description
1	<u>_CS1ROM</u>	O	Not used.
2	<u>CS0ROM</u>	O	Chip select output terminal for ROM.
3, 4	VSS	—	GND.
5	VCC	—	Power input terminal. EVER +3.3 V.
6-9	A0-3	O	Address bus output terminal.
10	VSS	—	GND.
11-18	A4-11	O	Address bus output terminal.
19	VSS	—	GND.
20-27	A12-19	O	Address bus output terminal.
28	VSS	—	GND.
29	A20	O	Not used.
30	CODEC_ERR	—	
31	<u>INT_VDEC</u>	I	Interrupt signal for AV DECODER IC.
32	<u>HD_INT</u>	I	Interrupt signal from LOADER.
33, 34	P67, 66	I	P67, 66 Port. (Pull up)
35, 36	VSS	—	GND.
37	AK_SCK	O	AK_SCK output pin.
38	CS8415_INT	I	Interrupt signal from CS8415.
39	VCC	—	Power input terminal. EVER +3.3 V.
40-43	D0-3	I/O	Data bus input/output terminal.
44	VSS	—	GND.
45-52	D4-11	I/O	Data bus input/output terminal.
53	VSS	—	GND.
54-57	D12-15	I/O	Data bus input/output terminal.
58	VCC	—	Power input terminal. EVER +3.3 V.
59	TXD0	O	Data output terminal for FL DRIVER IC serial communication control.
60	TXD1	O	Data output terminal for LOADER serial communication control.
61	RXD0	I	Data input terminal for FL DRIVER IC serial communication control.
62	RXD1	I	Data input terminal for LOADER serial communication control.
63	SCK0	O	Clock output terminal for FL DRIVER IC serial communication control.
64	SCK1	O	Clock output terminal for LOADER serial communication control.
65	VSS	—	GND.
66	<u>CS VDEC</u>	O	Chip select output terminal for AV DECODER IC.
67, 68	VSS	—	GND.
69	<u>CS5</u>	O	Chip select output terminal for SRAM.
70	DREQ1	I	DMA transfer request.
71	CS49326 RESET	O	CS49326 RESET output pin.
72	<u>CS_FR</u>	O	FL DRIVER IC chip select output terminal.
73	<u>SYSRST</u>	O	System reset signal output terminal.
74	REMOCON	I	Remote control signal input terminal. (Not connected)
75	USCL	O	I ² C clock output terminal for EEROM, video encoder IC.

IC DESCRIPTION-4/7 (HD6412320VF25)-2/3

Pin No.	Pin Name	I/O	Description
76	USDA	O	I ² C data output terminal for EEROM, video encoder IC.
77	UML	O	Data enable signal output terminal for AUDIO DAC IC control.
78	UMC	O	Clock for AUDIO DAC IC control.
79	UMD	O	Data output terminal for AUDIO DAC IC control.
80	WDTOVF	O	Watch dog timer overflow signal output terminal.
81	RESET	I	Micro processor reset input terminal.
82	NMI	I	Fixed is to “H”.
83	STBY	I	
84	VCC	—	Power input terminal. EVER +3.3 V.
85	XTAL	I	Crystal oscillator input terminal. 20 MHz.
86	EXTAL	I	
87	VSS	—	GND.
88	fO	O	Not used. (System clock output for external device)
89	VCC	—	Power input terminal. EVER +3.3 V.
90	AS	—	Not used. (Address strobe)
91	RD	O	Lead signal output terminal for bus control.
92	HWR	O	“H” write signal output terminal for bus control.
93	LWR	O	“L” write signal output terminal for bus control.
94	LAS	O	Lower column address strobe output terminal.
95	PFO	O	Not used. (Bus request acknowledge)
96	HRST	O	Reset signal output terminal for LOADER.
97	CS_SO	O	Serial control data output.
98	CS_SI	I	Serial control data input.
99, 100	VSS	—	GND.
101	CS_SCK	O	Serial clock terminal.
102	TEST MUTE	O	Test terminal. (Pull up)
103	AVCC	—	Power supply input terminal for A/D. EVER +3.3V.
104	VREF	I	Reference voltage input terminal for A/D. EVER +3.3V.
105	F/ST/?	—	Not used.
106	WRITE	I	WRITE input pin.
107	RY/BY	I	RY/BY input pin.
108	RDY_HIF	I	LOADER READY signal input terminal.
109	SW	I	NT/PAL sw input pin.
110	C2PO	I	C2 Flag input pin.
111	EMPH	I	Deemphasis monitor input pin.
112	SV2	O	Voltage output for S2 terminal. S1 = 5V S2 = 2.5 V Normally = 0 V.
113	AVSS	—	GND.
114	VSS	—	
115	CS4228 CS	O	CS4228 CS output pin.
116	RGB/YC	I	RGB/YC input pin.
117	CS49326 INT	I	CS49326 INT select input pin.

IC DESCRIPTION-4/7 (HD6412320VF25)-3/3

Pin No.	Pin Name	I/O	Description
118	CS49326 CS	O	CS49326 CS chip select output pin.
119	AMUTE	O	Audio signal (analog audio) output mute control terminal ON = H OFF = L.
120	CHECK	O	Detection of check.
121	A MUTE AC-3	O	Mute output pin.
122	CS8415 CS	O	CS8415 CS output pin.
123, 124	MD0, 1	I	Operation mode control Fixed to L.
125	MD2	I	Operation mode control Fixed to H.
126	CAS	O	Column address strobe output pin.
127	TEST	O	Detection of TEST. (Pull down)
128	PG0	O	Detection of PG0.

IC DESCRIPTION-5/7 (L64021D)-1/3

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground.
2-5	SBD_7-4	I/O	SDRAM data bus 7-4.
6	VDD	—	Power. (3.3V)
7-10	SBD_3-0	I/O	SDRAM data bus 3-0.
11	VSS	—	Ground.
12-19	CH_DATA_0-7	I	Channel data bus 0-7.
20	VSS	—	Ground.
21	TOS_N	I	Top of sector.
22, 23	NC	I	Not connected.
24	ERROR_N	I	Error.
25	VDD	—	Power. (3.3V)
26	AVALID_N	I	Audio data valid.
27	VVALID_N	I	Video data valid. (Not connected)
28	DCK	I	Data clock.
29	VREQ_N	O	Video transfer request. (Not connected)
30	AREQ_N	O	Audio transfer request.
31, 32	NC	—	Not connected.
33	VSS	—	Ground.
34-39	A_8-3	I	Address 8-3.
40	VDD	—	Power. (3.3V)
41	NC	—	Not connected.
42	VDD	—	Power. (3.3V)
43-45	A_2-0	I	Address 2-0.
46	VSS	—	Ground.
47-54	D_7-0	I/O	Host data bus 7-0.
55	VSS	—	Ground.
56	SYSCLK	I	System clock.
57	RESET_N	I	Reset.
58	DREQ_N	O	DMA transfer request.
59	INTR_N	O	Interrupt.
60	BUSMODE	I	Busmode. (Pull down)
61	VDD	—	Power. (3.3V)
62	RDY_N	O	Ready. (Not connected)
63	READ_N	I	Read indicator.
64	WRITE_N	I	Write indicator.
65	WAITIWTN_N	I/O	Wait.
66	VSS	—	Ground.
67	AS_N	—	Not connected.
68	CS_N	I	Chip select.
69	VS	O	Vertical synchronization.
70	HS	O	Horizontal synchronization.

IC DESCRIPTION-5/7 (L64021D)-2/3

Pin No.	Pin Name	I/O	Description
71	VDD	—	Power. (3.3V)
72	OSD_ACTIVE	O	On screen display active. (Not connected)
73, 74	PD_0, 1	O	Pixel data output bus 0, 1.
75	VSS	—	Ground.
76-78	PD_2-4	O	Pixel data output bus 2-4.
79	VDD	—	Power. (3.3V)
80	NC	—	Not connected.
81	VSS	—	Ground.
82-84	PD_5-7	O	Pixel data output bus 5-7.
85	VSS	—	Ground. (Not connected)
86	BLANK	O	Blank. (composite)
87	CREF	O	Chroma reference for pixel data. (Not connected)
88-91	EXT_OSD_0-3	I	External OSD palette selection bus 0-3. (Not connected)
92	NC	O	Not connected.
93	VDD	—	Power. (3.3V)
94	ACLK_441	I	Audio input clock for 44.1kHz*N.
95	ACLK_48	I	Audio input clock for 48kHz*N.
96	ACLK_32	I	Audio input clock for 32kHz*N.
97	VSS	—	Ground.
98	CD_BCLK	I	CD-Serial DAC bit clock.
99	CD_LRCLK	I	CD-Left right clock.
100	CD_ACLK	I	CD-External audio clock. (Not connected)
101	CD_ASDATA	I	CD-Audio serial data line.
102	SPDIF_IN	I	Sony/Philips data interface-input.
103	A_ACLK	O	Output audio clock. (Not connected)
104	VDD	—	Power. (3.3V)
105	BCLK	O	Serial DAC bit clock.
106	LRCLK	O	Serial DAC left right clock.
107	ASDATA	O	Audio serial data line.
108, 109	NC	O	Not connected.
110	VSS	—	Ground.
111	SPDIF_OUT	O	Sony/Philips data interface output.
112	AUDIO_SYNC	O	Audio sync strobe. (Not connected)
113, 114	TM1, TM0	I	Test mode 1, 0. (Pull down)
115	ZTEST	I	Test mode pin. (Pull up)
116	SCAN_TE	I	Scan test mode pin. (Not connected)
117	PREQ_N	O	PCM FIFO request. (Not connected)
118	VDD	—	Power. (3.3V)
119, 120	SBD_15, 14	I/O	SDRAM data bus 15, 14.
121	NC	—	Not connected.
122	SBD_13	I/O	SDRAM data bus 13.

IC DESCRIPTION-5/7 (L64021D)-3/3

Pin No.	Pin Name	I/O	Description
123	VSS	—	Ground.
124-126	SBD_12-10	I/O	SDRAM data bus 12-10.
127	VDD	—	Power. (3.3V)
128, 129	SBD_9, 8	I/O	SDRAM data bus 9, 8.
130	SCLK	O	SDRAM 81MHz clock.
131	VSS	—	Ground.
132-134	SBA_9-7	O	SDRAM address bus 9-7.
135	VDD	—	Power. (3.3V)
136-138	SBA_6-4	O	SDRAM address bus 6-4.
139	VSS	—	Ground.
140-142	SBA_3-1	O	SDRAM address bus 3-1.
143	VDD	—	Power. (3.3V)
144	SBA_0	O	SDRAM address bus 0.
145, 146	SBA_10, 11	O	SDRAM address bus 10, 11.
147	VSS	—	Ground.
148	SCS1_N	O	Chip select for second DRAM.
149	SCS_N	O	Chip select for SDRAM.
150	SRAS_N	O	SDRAM row address strobe.
151	VDD	—	Power. (3.3V)
152	SCAS_N	O	SDRAM column address strobe.
153	SWE_N	O	SDRAM write enable.
154	SDQM	O	SDRAM control pin.
155	VSS	—	Ground.
156	PLLVDD	—	Power-phase locked loop for SDRAM.
157	NC	—	Not connected.
158	PLLVSS	—	Phase locked-loop ground pin.
159	VDD	—	Power. (3.3V)
160	NC	—	Not connected.

IC DESCRIPTION-6/7 (ADV7170K)-1/1

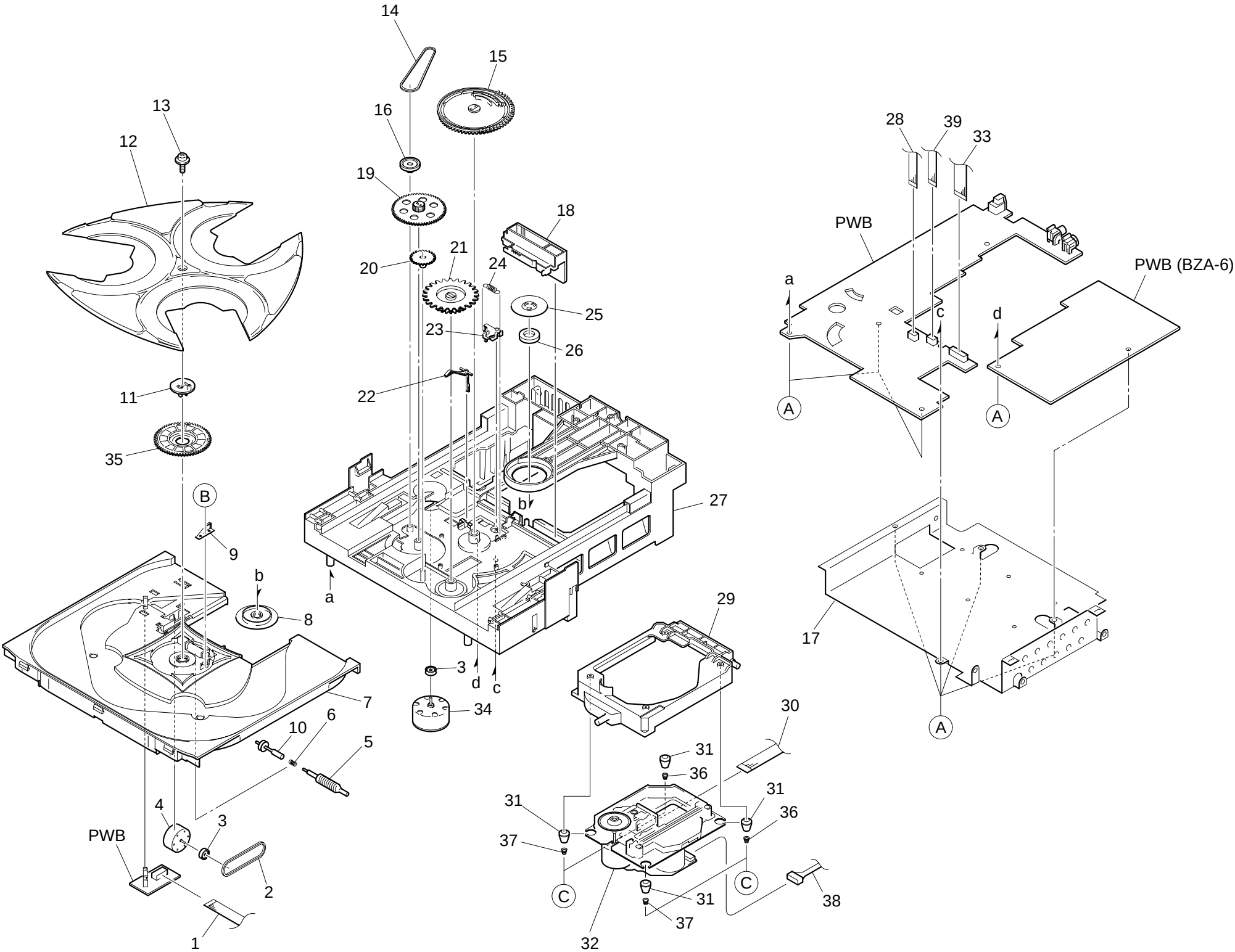
Pin No.	Pin Name	I/O	Description
1	AVDD	—	Power Supply. (3.3 V)
2-4	P5-7	I	Pixel Port.(Digital video signal in)
5-9	P8-12	I	Pixel Port.(Conneted to Ground.)
10	GND	—	Ground Pin.
11	AVDD	—	Power Supply. (3.3 V)
12-14	P13-15	I	Pixel Port.(Conneted to Ground.)
15	$\overline{\text{HSYNC}}$	I	$\overline{\text{HSYNC}}$ Control Signal.
16	$\overline{\text{VSYNC}}$	I	$\overline{\text{VSYNC}}$ Control Signal.
17	$\overline{\text{BLANK}}$	I	Video Blanking Control Signal.(Pull down)
18	ALSB	I	TTL Address Input.(Pull up)
19	GND	—	Ground Pin.
20	AVDD	—	Power Supply. (3.3 V)
21	GND	—	Ground Pin.
22	$\overline{\text{RESET}}$	I	The input resets the on chip timing generator and sets the ADV7170/ADV7171 into default mode.
23	SCLOCK	I	MPU Port Serial Interface Clock Input
24	SDATA	I/O	MPU Port Serial Data Input/Output
25	COMP	O	Compensation Pin.(Pull up)
26	CHROMA	O	RED/S-Video C/V Analog Output
27	LUMI	O	GREEN/S-Video Y/Y Analog Output
28	AVDD	—	Power Supply. (3.3 V)
29	GND	—	Ground Pin.
30	AVDD	—	Power Supply. (3.3 V)
31	B/COMP/U	O	BLUE/Composite/U Analog Output
32	COMPOSITE	O	PAL/NTSC Composite Video Output.
33	VREF	I/O	Voltage Reference Input for DACs or Voltage Reference Output.(Pull up)
34	RSET	I	A 150 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the video signals.
35	SCRESET/RTC	I	This pin is subcarrier reset.
36	TTXREQ	O	Teletext Data Request Signal/Defaults to GND when Teletext not Selected.(Pull down)
37	TTX	I	Teletext Data/Defaults to VAA when Teletext not Selected.(Pull up)
38-42	P0-4	I	Pixel Port.(Digital video signal in)
43	GND	—	Ground Pin.
44	CLOCK	I	TTL Clock Input.Requires a stable 27 MHz reference Clock for standard operation.

IC DESCRIPTION-7/7 (CS49326)-1/2

Pin No.	Pin Name	I/O	Description
1	VD1	—	Digital positive supply. (+2.5V)
2	DGND1	—	Digital ground.
3	AUDATAA3/XMT958	O	SPDIF transmitter output,digital audio output. (Not connected)
4	WR	I	Host write storobe. (Pull down)
5	RD	I	Host parallel output enable. (Pull up)
6	SCDIN	I	SPI serial control data input.
7	SCCLK	I	Serial control port clock.
8-11	GPI07-04	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
12	VD2	—	Digital positive supply. (+2.5V)
13	DGND2	—	Digital ground.
14	T/M GPI03	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
15	C GPI02	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
16	B GPI01	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
17	A GPI00	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
18	CS	I	Host parallel chip select,host serial SPI chip select.
19	SCDIO	O	Serial control port data input and output pin.
20	ABOOT/INTREQ	O	Automatic boot enable,control port interrupt request.
21	EXTMEM	I	External memory chip select. (Pull up)
22	SDATAN1	I	PCM audio data input number one.
23	VD3	—	Digital positive supply. (+2.5V)
24	DGND3	—	Digital ground.
25	SCLKLN1	I	PCM audio input bit clock.
26	LRCLKN1	I	PCM audio input sample rate clock.
27	SDATAN2	I	PCM audio data input number two.
28	SCLKN2	I	PCM audio input bit clock.
29	LRCLKN2	I	PCM audio input sample rate clock.
30	CLKIN	I	Master clock input.(Pull down)
31	CLKSEL	I	DSP clock slect.(Pull down)
32	FILT2	—	Phase-locked loop filter.
33	FILT1	—	Phase-locked loop filter. (Pull down)
34	VA	—	Analog positive supply. (+2.5V)
35	AGND	—	Analog ground.
36	RESET	I	Asynchronous active-low master reset input.
37	DD	—	This pin is reserved. (Pull up)
38	DC	—	This pin is reserved. (Pull up)
39	AUDATA2	O	Digital audio output 2.

IC DESCRIPTION-7/7 (CS49326)-2/2

Pin No.	Pin Name	I/O	Description
40	AUDATA1	O	Digital audio output 1.
41	AUDATA0	O	Digital audio output 0.
42	LRCLK	I	Audio output sample rate clock.
43	SCLK	I	Audio output bit clock.
44	MCLK	I	Audio master clock. (Pull down)



MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-672-010		F-CABLE,5P 1.25 210MM WHITE N	21	84-ZG1-205-210		GEAR,TRAY (*)
2	84-ZG1-225-010		BELT,SQ1.0-63.3	22	8A-ZGD-212-010		LEVER,SW GRA
3	84-ZG1-267-010		PULLEY,LOAD MO 8	23	84-ZG1-266-010		LEVER,CAM 8
4	87-045-364-010		MOTOR(BCH3B14)	24	84-ZG1-211-010		SPR-E CAM S
5	84-ZG1-238-010		GEAR,WORM N	25	81-ZG1-255-110		PLATE,MAGNET MK2
6	84-ZG1-248-010		SPR-C,WORM	26	83-ZG3-604-010		RING,MAG 2
7	8B-ZG9-001-010		TRAY,GRA	27	8B-ZG9-200-010		CHAS,MECHA DVD NAT
8	8A-ZGD-202-010		HLD, MAGNET DVD	28	8B-ZG9-610-010		FF-CABLE,7P 1.00 70MM
9	84-ZG1-259-010		SPR-P,WORM	29	8A-ZGD-201-010		HLD,MECHA DVD
10	84-ZG1-239-210		PULLY,WORM N	30	8A-ZGD-605-010		FF-CABLE,33P 0.5 65MM
11	84-ZG1-288-010		LEVER,TT NAT	31	8A-ZGD-206-010		DMPR,MECHA DVD
12	8B-ZG9-002-010		TURN TABLE,DVD GRA	32	M8-AZK-J92-070		MECHA,DV32F2
13	87-B10-331-010		VF+3-6 BLK	33	8B-ZG9-609-010		FF-CABLE,16P 1.00 70MM
14	84-ZG1-209-010		BELT,SQ1.8-117.7	34	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
15	84-ZG1-203-410		GEAR,MAIN CAM	35	84-ZG1-269-010		GEAR,MAIN TT 4
16	84-ZG1-207-010		PULLEY,RELAY	36	8A-ZGD-208-010		SPR-C,DVD B
17	8A-ZGD-209-110		HLD,POWER AC3 PWB	37	8A-ZGD-207-010		SPR-C,DVD A
18	84-ZG1-204-310		SLIDER,MECHA CAM	38	8A-ZGD-607-010		CONN ASSY,9P PH
19	84-ZG1-274-010		GEAR,RELAY 8	39	8B-ZG9-611-010		FF-CABLE,6P 1.00 70MM
20	81-ZG1-291-110		GEAR,TRAY RELAY NO3	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
				B	87-067-981-010		BVT2+3-6 BLK
				C	8A-ZGD-205-010		S-SCREW,MECHA DVD

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern



アイワ株式会社
AIWA CO.,LTD.

〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111（代表）
2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03(3827)3111