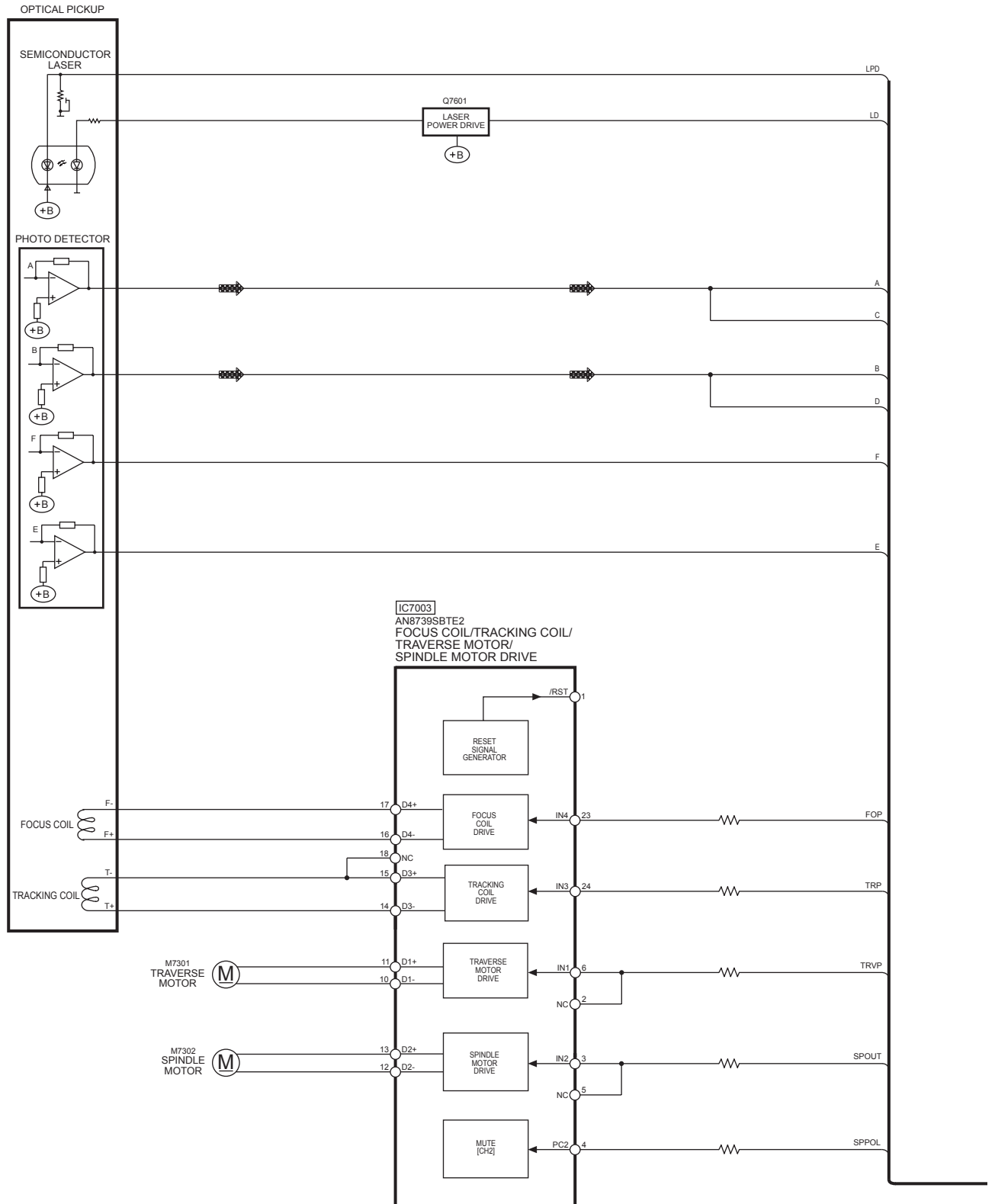
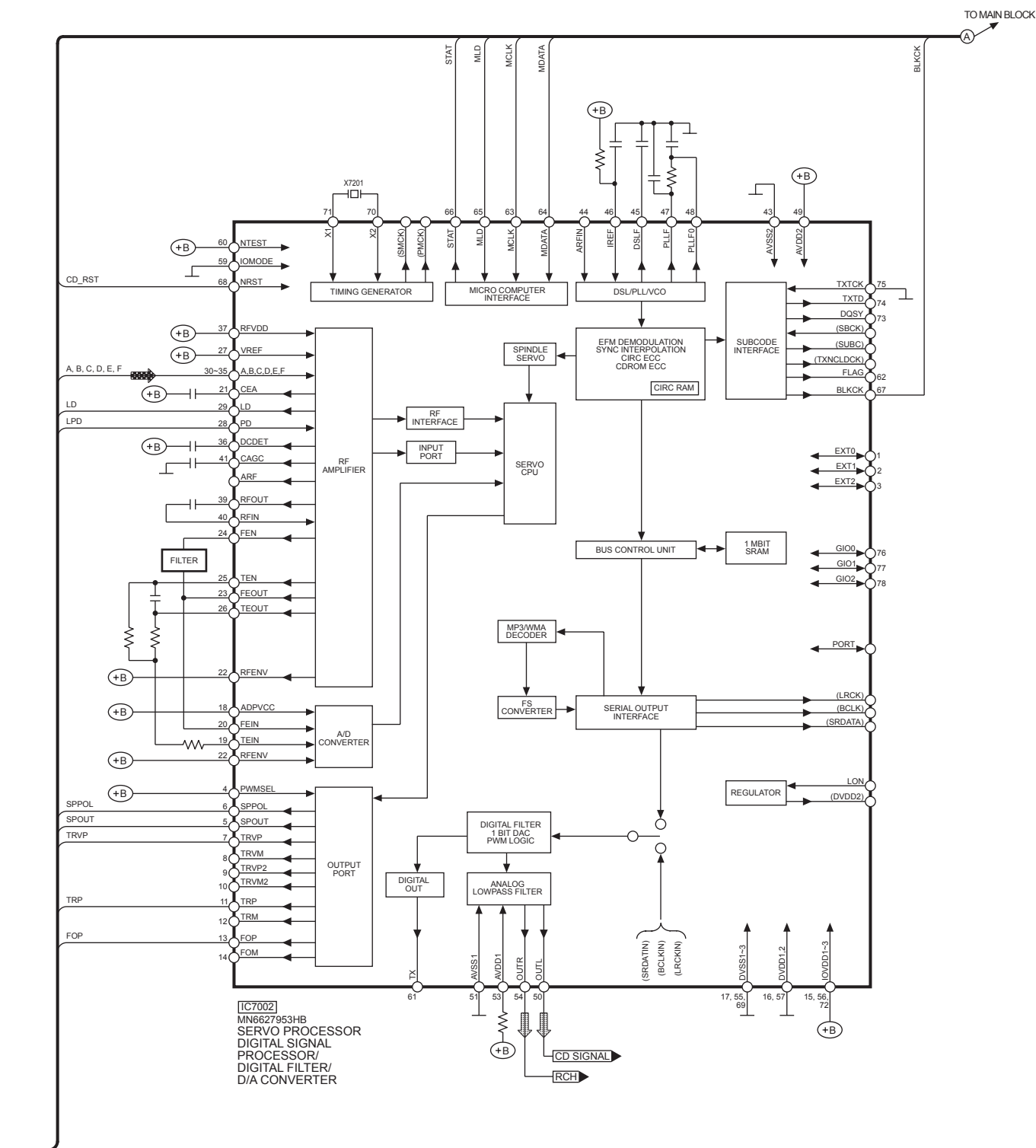
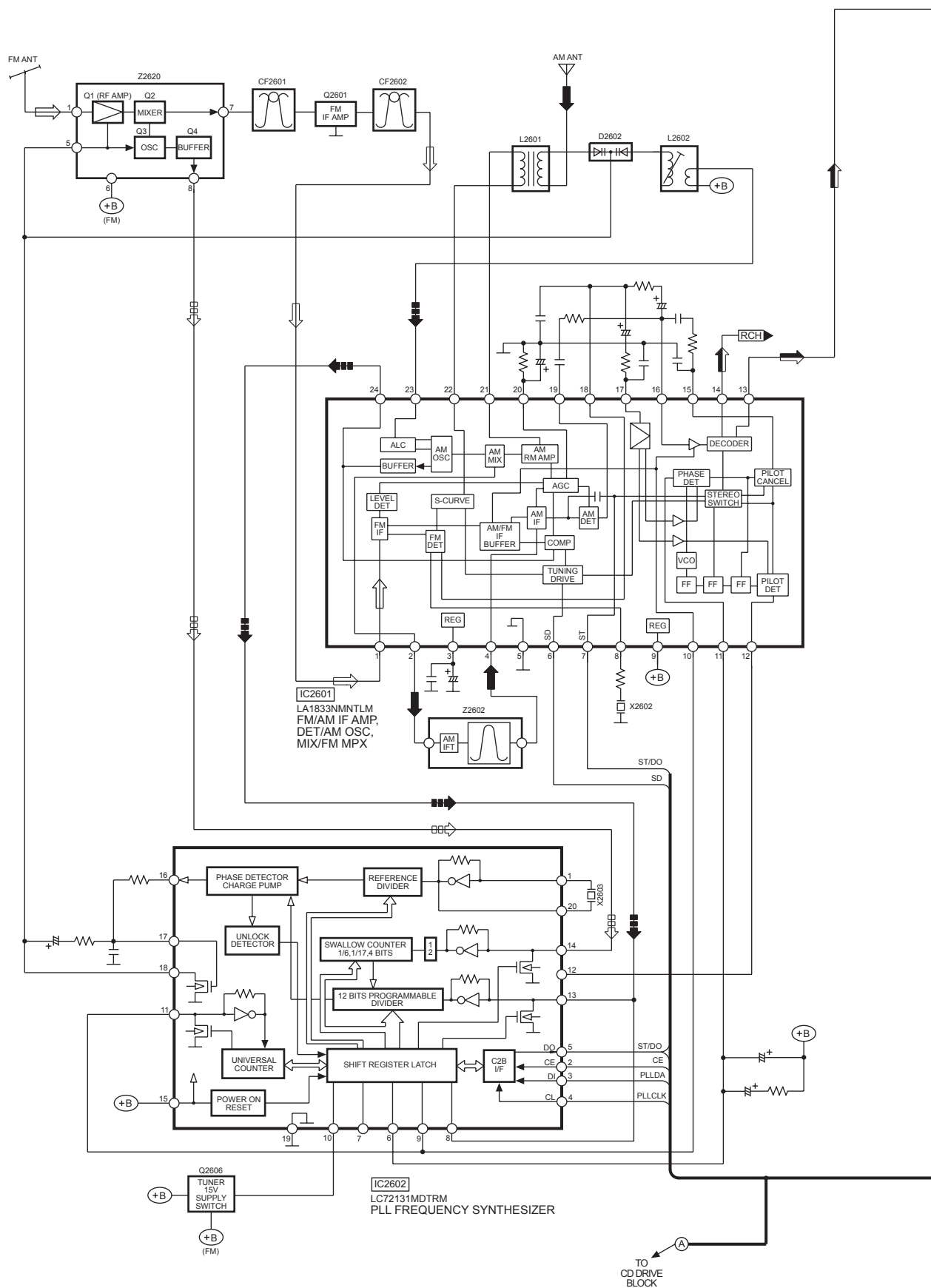
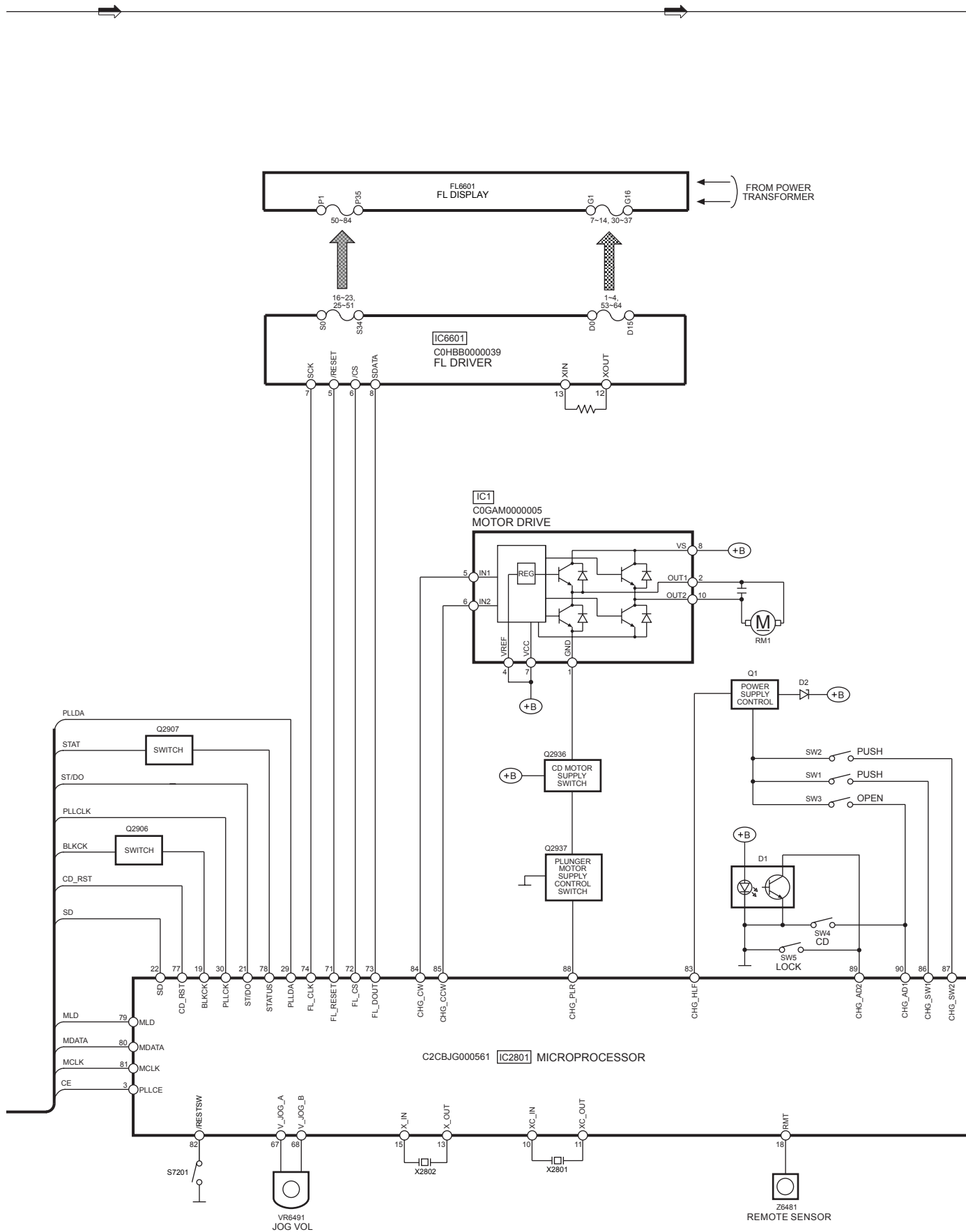


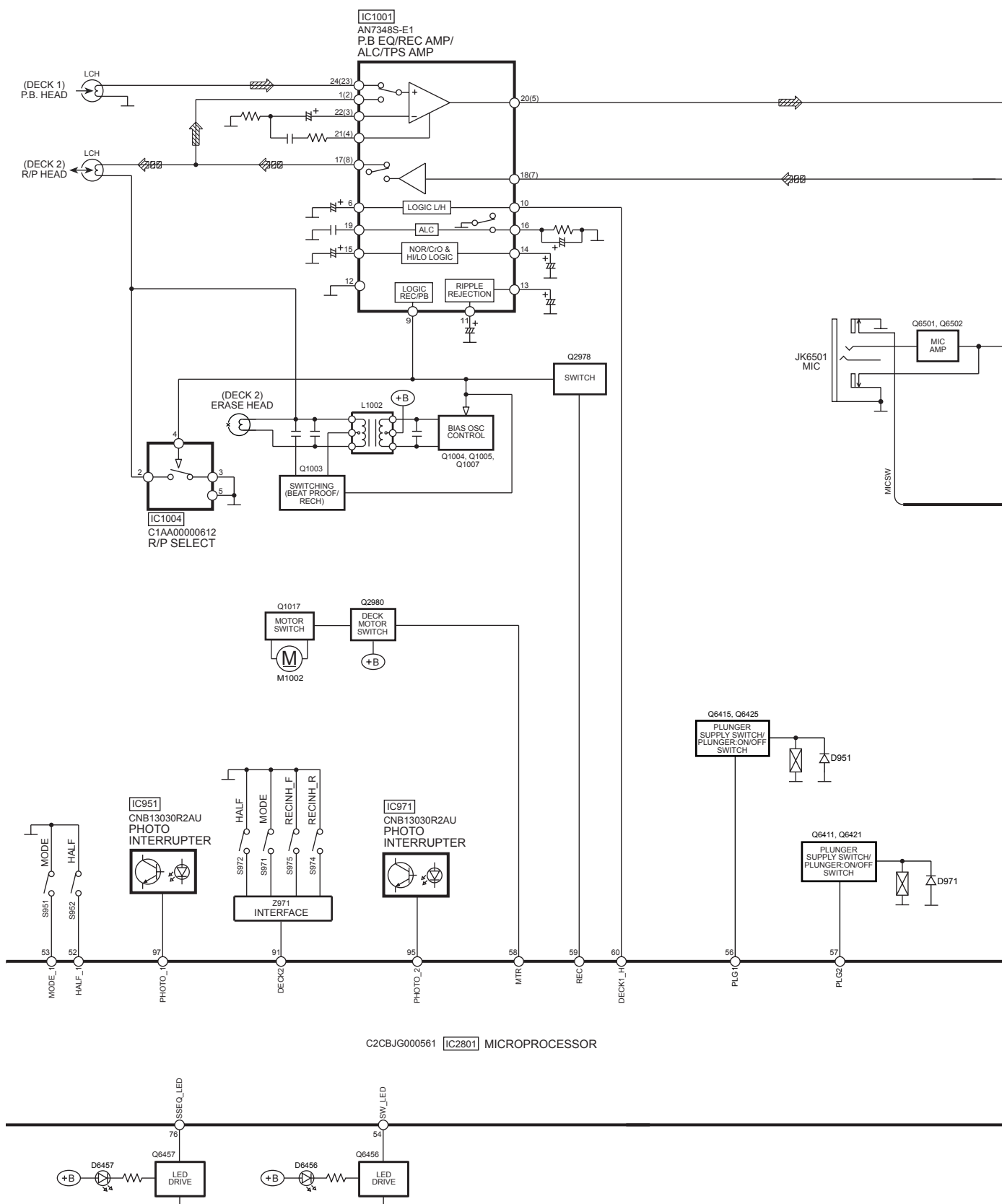
15 Block Diagram

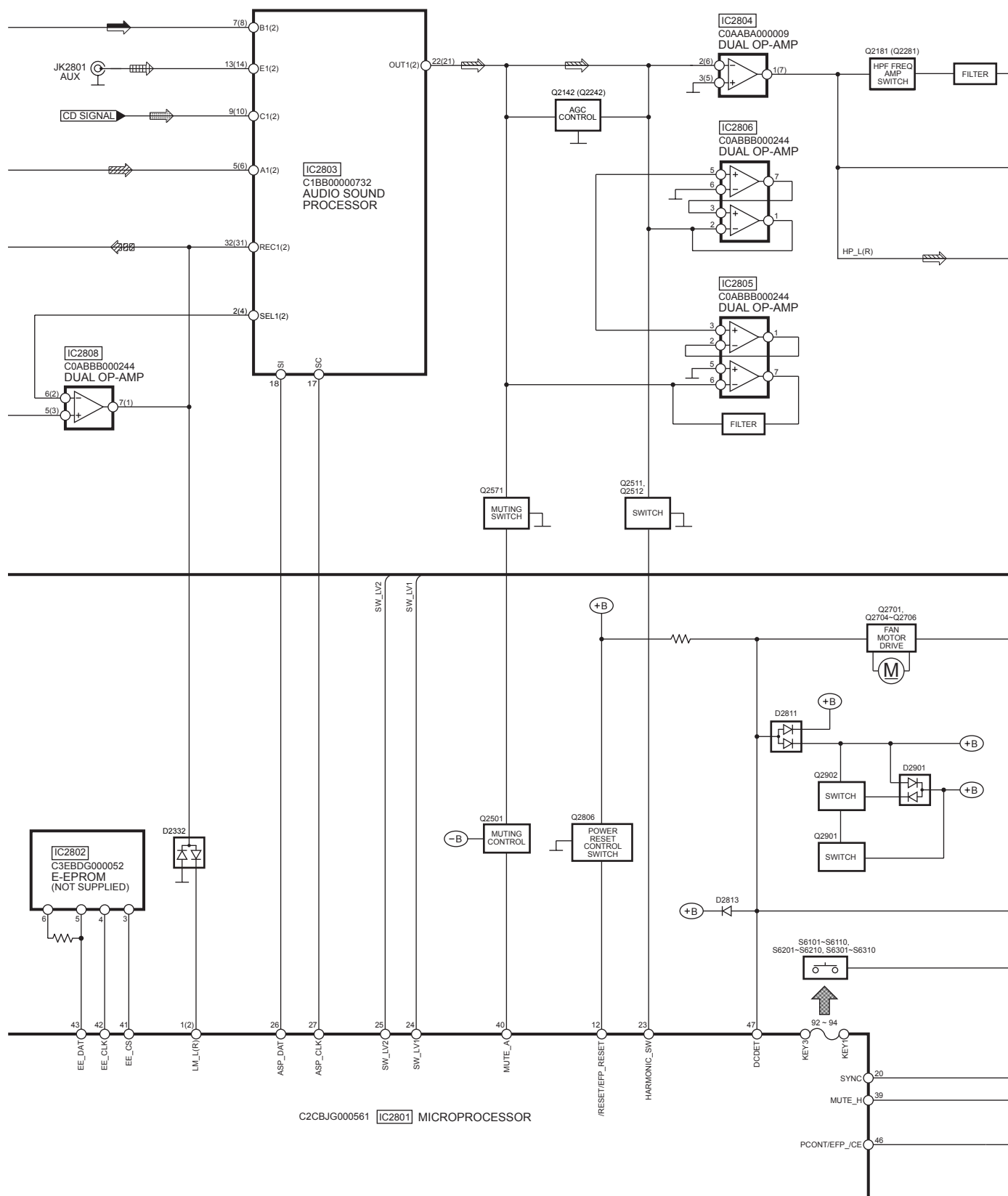


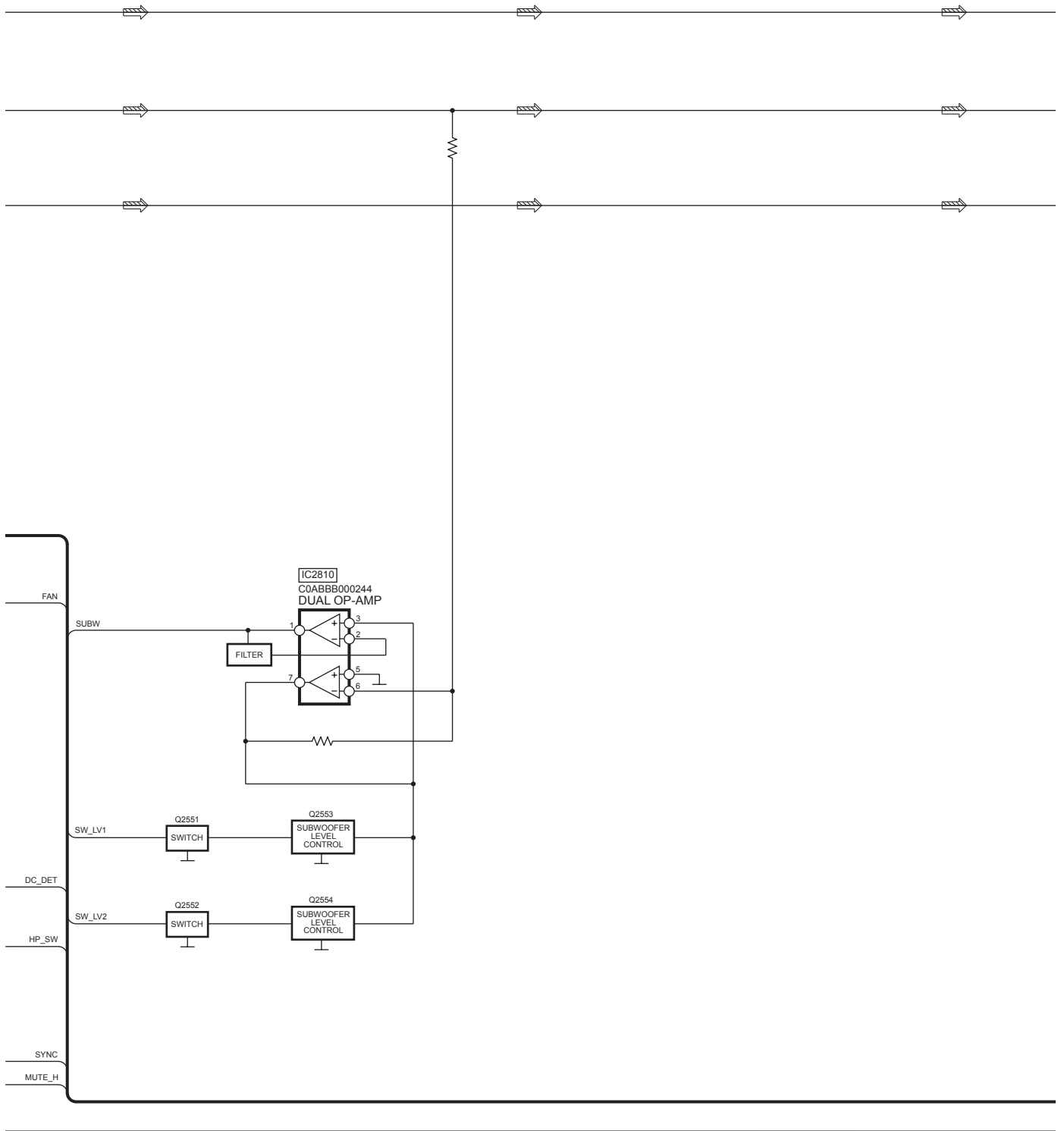


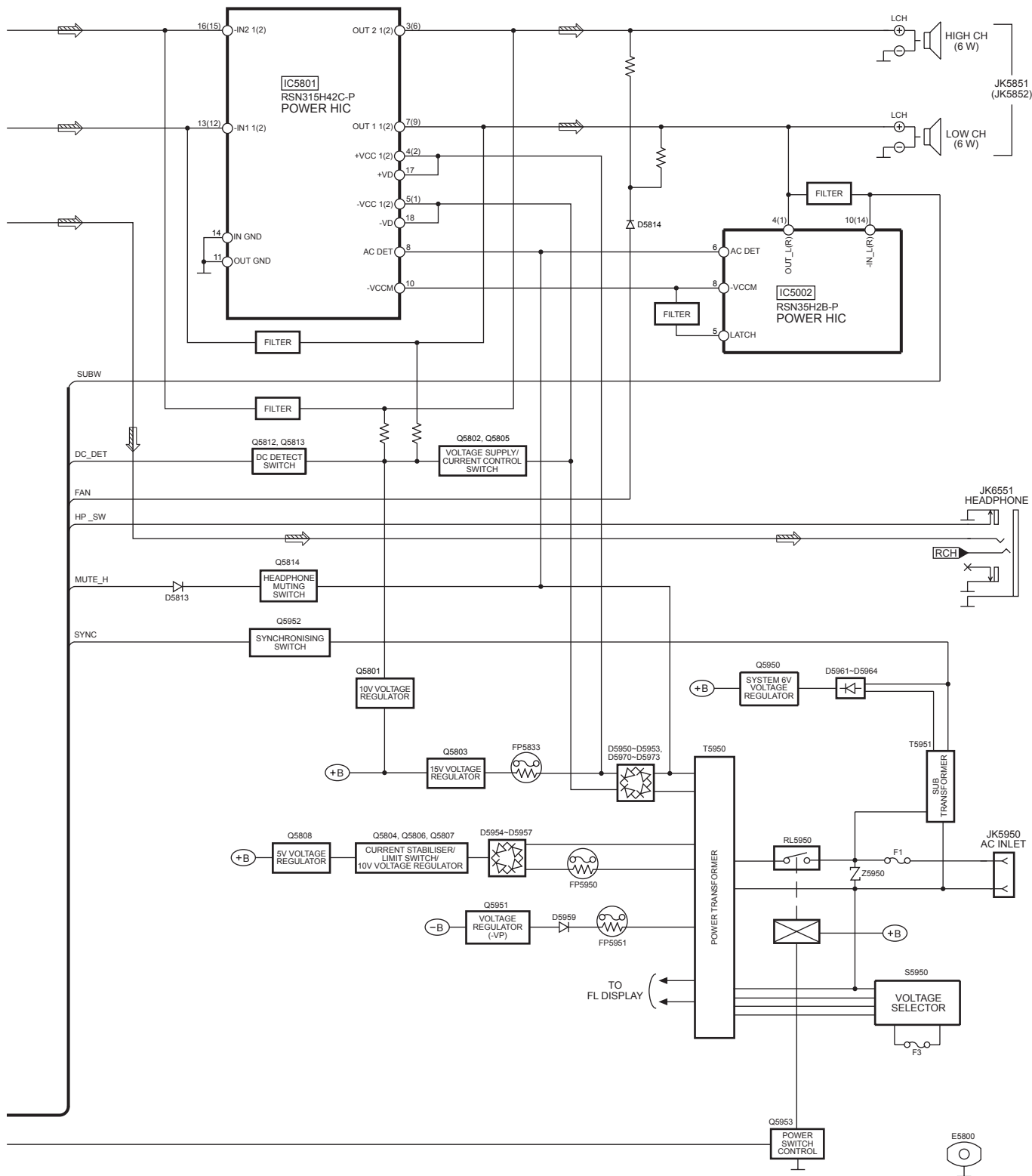












SIGNAL LINES

	: MAIN SIGNAL LINE		: CD SIGNAL LINE		: AM SIGNAL LINE		: PLAYBACK SIGNAL LINE
	: FM OSC SIGNAL LINE		: AM OSC SIGNAL LINE		: FM/AM SIGNAL LINE		: RECORD SIGNAL LINE
	: FM SIGNAL LINE		: AUX SIGNAL LINE		: CD-DA (AUDIO/VIDEO) SIGNAL LINE		

() Indicates the Pin No. of Right Channel. NOTE : Signal Lines are applicable to the Left Channel only.

16 Voltage Measurement

Main P.C.B.

Ref No.	IC2601																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.98	5.95	1.99	1.98	0	4.90	5.17	3.82	5.95	0	4.87	3.52	1.604	1.6	1.93	1.99	1.984	2.21	0	0.125
PLAY	1.98	5.95	1.99	1.97	0	4.74	5.15	3.82	5.95	0	4.86	3.52	1.59	1.595	1.93	1.989	1.981	2.20	0	0.125
STOP	1.99	5.96	1.99	1.98	0	4.92	5.17	3.83	5.95	0	4.87	3.52	1.59	1.6	1.93	1.99	1.981	2.20	0	0.125

Ref No.	IC2601																			
MODE	21	22	23	24																
REC	2.357	2.357	5.95	4.57																
PLAY	2.35	2.35	5.95	4.56																
STOP	2.35	2.35	5.95	4.57																

Ref No.	IC2602																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.59	0	0	0	5.18	4.95	0	4.63	0	14.94	0	0	2.59	0	5.19	0	0	14.94	0	2.59
PLAY	2.57	0	0	0	5.16	4.86	0	4.55	0	15.18	0	0	2.59	5.19	5.19	0	0	15.23	0	2.58
STOP	2.57	0	0	0	5.16	4.86	0	4.55	0	15.18	0	0	2.59	5.19	5.19	0	0	15.23	0	2.58

Ref No.	IC2801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	0	0	0	0	0	0	0.669	0.69	5.25	2.68	0	2.6	0	0	5.25	3.1	5.20
PLAY	0	0	0	0	0	0	0	0	0	0.67	0.68	5.25	2.68	0	2.6	0	0	5.224	3.1	5.20
STOP	0	0	0	0	0	0	0	0	0	0.67	0.67	5.25	2.68	0	2.62	0	0	5.224	3.1	5.20

Ref No.	IC2801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.95	0	0	0	0	0	5.28	0	0	0	0	0	0	0	0	0	0	0	0	0
PLAY	4.95	0	0	0	0	0	5.26	0	0	0	0	0	0	0	0	0	0	0	0	0
STOP	4.95	0	0	0	0	0	5.26	0	0	0	0	0	0	0	0	0	0	5.224	0	0

Ref No.	IC2801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	0	5.18	5.16	0	0	0	0	0	4.79	0	0	0	0	0	5.25	0
PLAY	0	0	0	0	0	5.17	5.15	0	0	0	0	0	4.78	0	0	0	0	0	5.25	0
STOP	0	0	0	0	0	5.18	5.15	0	0	0	0	0	4.79	0	0	0	0	0	5.25	0

Ref No.	IC2801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	5.25	0	0	0	0	0	5.25	0	0	0	3.0	0.3	0	0	0	5.25	3.0	0	0.5
PLAY	0	5.25	0	0	0	0	0	5.25	0	0	0	3.0	0.31	0	0	0	5.25	3.0	0	0.5
STOP	0	5.25	0	0	0	0	0	5.25	0	0	0	3.1	0.3	0	0	0	5.25	3.1	0	0.5

Ref No.	IC2801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	4.91	0	0	5.24	5.25	0	0	0	0	3.65	5.25	1.24	5.25	5.23	4.38	0.59	0	5.25	5.25	5.18
PLAY	4.91	0	0	5.25	5.25	0	0	0	0	3.65	5.22	1.24	5.25	5.23	4.38	0.58	0	5.25	5.26	5.18
STOP	4.92	0	0	5.25	5.25	0	0	0	0	3.65	5.24	1.24	5.25	5.23	4.38	0.59	0	5.25	5.25	5.19

Ref No.	IC2803																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.52	4.60	4.52	4.60	4.50	4.49	4.49	4.49	4.50	4.50	4.49	4.49	4.49	4.45	4.54	0	5.17	0	9.03	3.38
PLAY	4.52	4.60	4.50	4.61	4.52	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.54	0	5.20	0	9.02	3.38
STOP	0	5.27	0	0	0	0	0	0												

Ref No.	IC2803																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.54	4.54	4.54	4.52	4.52	4.51	4.54	4.53	4.54	4.53	4.54	4.55								
PLAY	4.54	4.55	4.55	4.53	4.52	4.51	4.54	4.53	4.54	4.54	4.54	4.55								
STOP	4.54	4.55	4.55	4.53	4.52	4.57	4.54	4.53	4.54	4.54	4.54	4.55								

Ref No.	IC2805																		
MODE	1	2	3	4	5	6	7	8											
REC	0	0	0	-8.89	0	0	0	9.03											
PLAY	0	0	0	-8.90	0	0	0	9.03											
STOP	0	0	0	-8.90	0	0	0	9.05											

Ref No.	IC2806																		
MODE	1	2	3	4	5	6	7	8											
REC	0	0	0	0	0	0	0	9.05											
PLAY	0	0	0	0	0	0	0	9.04											
STOP	0	0	0	0	0	0	0	9.05											

Main P.C.B.

Ref No.	Q2601				Q2606				Q2701				Q2901				Q2902			
MODE	E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G	
REC	0	0	0		14.79	0	14.79		-8.92	-8.84	-8.18		5.54	3.28	6.5		2.98	5.56	2.4	
PLAY	0	0	0		15.17	0	15.20		-8.92	-8.81	-8.17		5.60	3.29	6.24		3.02	5.58	2.48	
STOP	0	0	0		15.26	0	15.22		-8.96	4.78	-8.95		7.08	3.3	7.65		3.04	7.08	2.5	

Main P.C.B.

Ref No.	Q2936																			
MODE	E/S	C/D	B/G																	
PLAY	9.92	0	9.94																	
PLAY	9.95	0	9.95																	
STOP	9.99	0	9.99																	

Transformer P.C.B.

Ref No.	Q5950				Q5951				Q5952				Q5953							
MODE	E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G					
REC	5.98	10.12	6.60		-25.86	-29.20	-26.50		-8.92	-8.84	-8.18		0	0.13	0.8					
PLAY	5.99	10.30	6.59		-25.85	-29.22	-26.50		-8.92	-8.81	-8.17		0	0.13	0.8					
STOP	5.99	10.25	6.59		-25.85	-29.22	-26.50		-8.96	4.78	-8.95		0	0.13	0.8					

17 Schematic Diagram


(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

SW1	: Push switch
SW2	: Push switch
SW3	: Open switch
SW4	: CD switch
SW5	: Load switch
S951	: Mode switch
S952	: Half switch
S971	: Mode switch
S972	: Half switch
S974	: Recinh_R switch
S975	: Recinh_F switch
S5950	: AC Voltage Selector switch
S6101	: Open/ Close switch
S6102	: CD 1 switch
S6103	: CD 2 switch
S6104	: CD 3 switch
S6105	: CD 4 switch
S6106	: CD 5 switch
S6107	: Left switch
S6108	: Down switch
S6109	: Right switch
S6110	: Up switch
S6201	: Rew switch
S6202	: Tuner switch
S6203	: CD switch
S6204	: FF switch
S6205	: Stop switch
S6206	: Deck 1/2 switch
S6207	: Deck 2 switch
S6208	: TAPE switch
S6209	: AUX switch
S6210	: Deck 1 switch
S6301	: Power switch
S6303	: H.BASS switch
S6304	: REC switch
S6305	: Demo/Display switch
S6306	: Sub-woofer switch
S6307	: Delete switch
S6308	: Marker switch
S6309	: Title Search switch
S6310	: Enter switch
S7201	: Rest switch
VR6491	: VR Volume Jog
VR6511	: VR Mic Volume

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

• Importance safety notice :

Components identified by  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use

only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

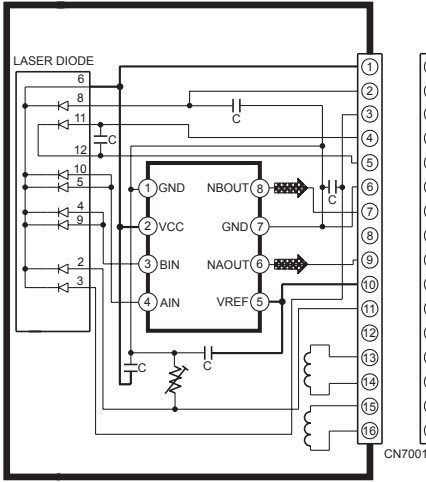
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

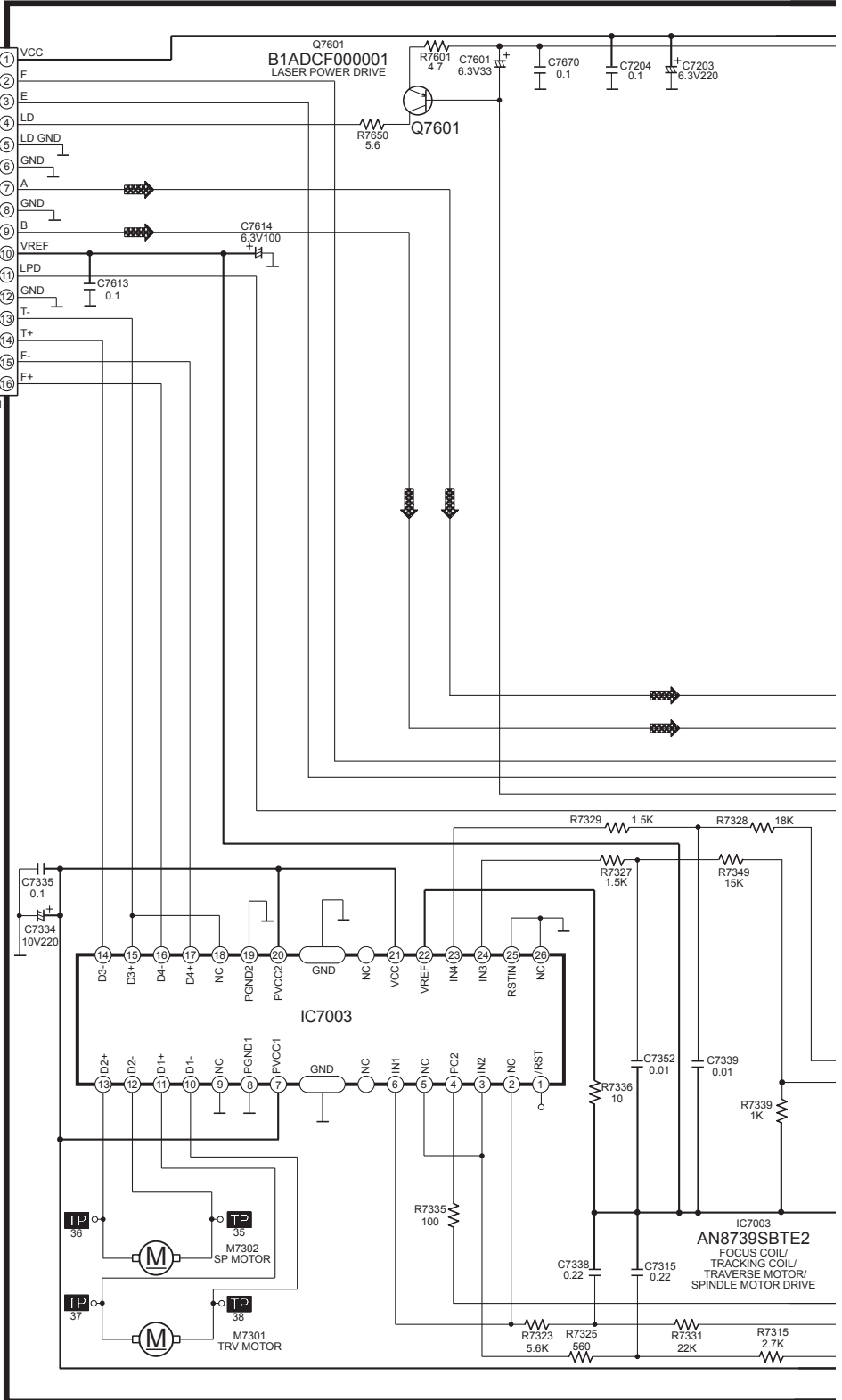
17.1. (A) CD Servo Circuit

SCHEMATIC DIAGRAM - 1

OPTICAL PICKUP CIRCUIT

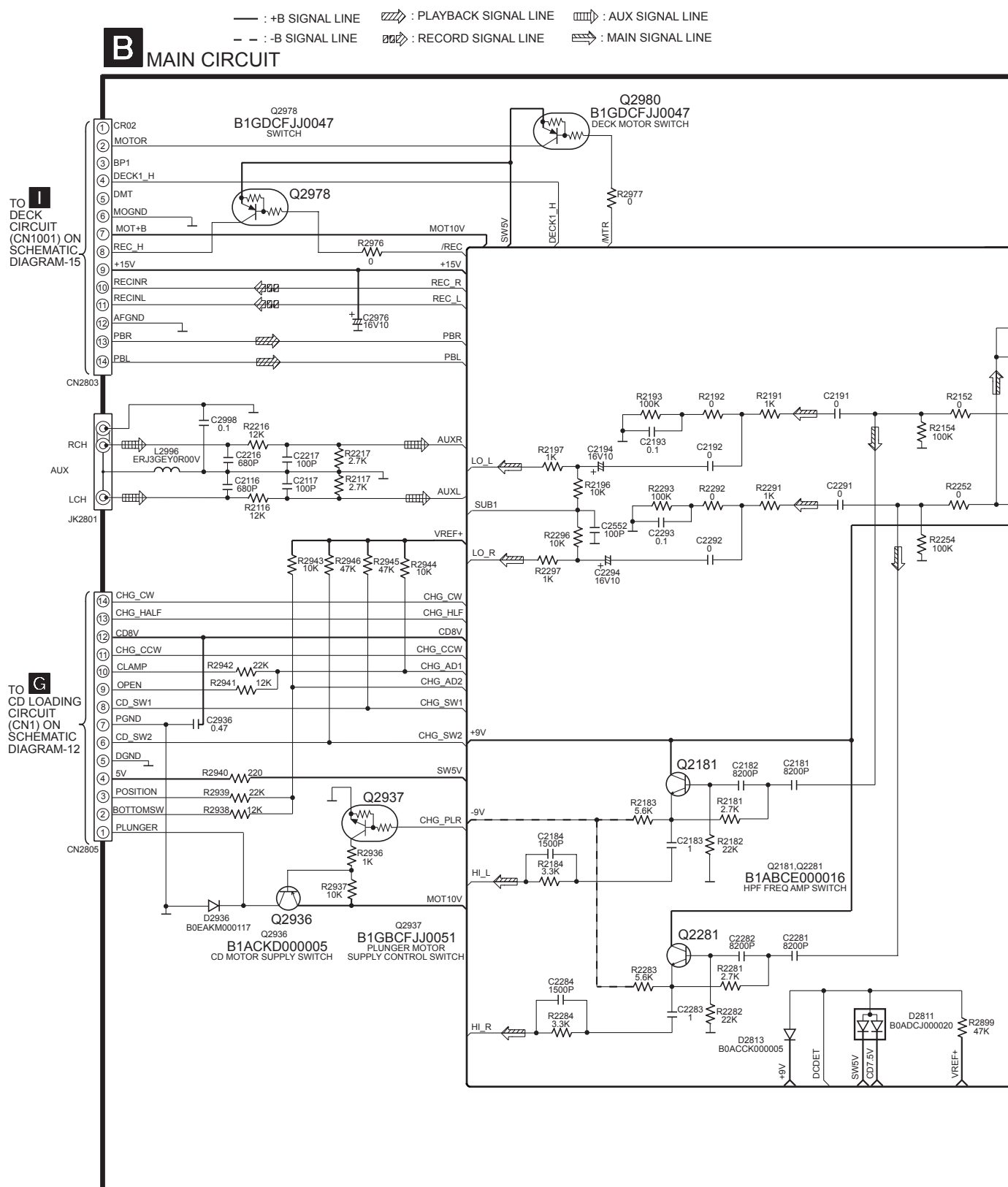


A CD SERVO CIRCUIT



17.3. (B) Main Circuit

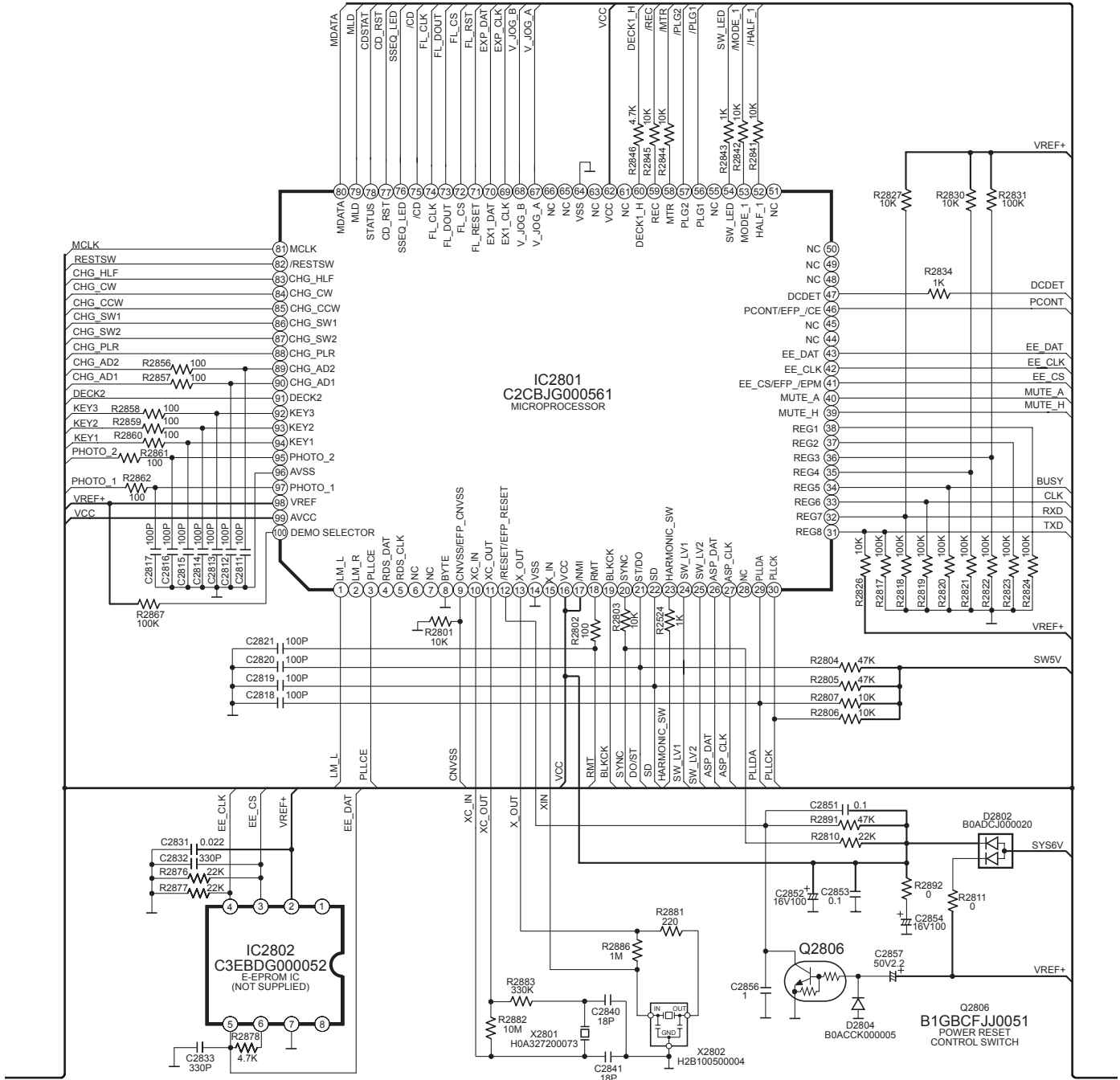
SCHEMATIC DIAGRAM - 4



SCHEMATIC DIAGRAM - 7







B MAIN CIRCUIT

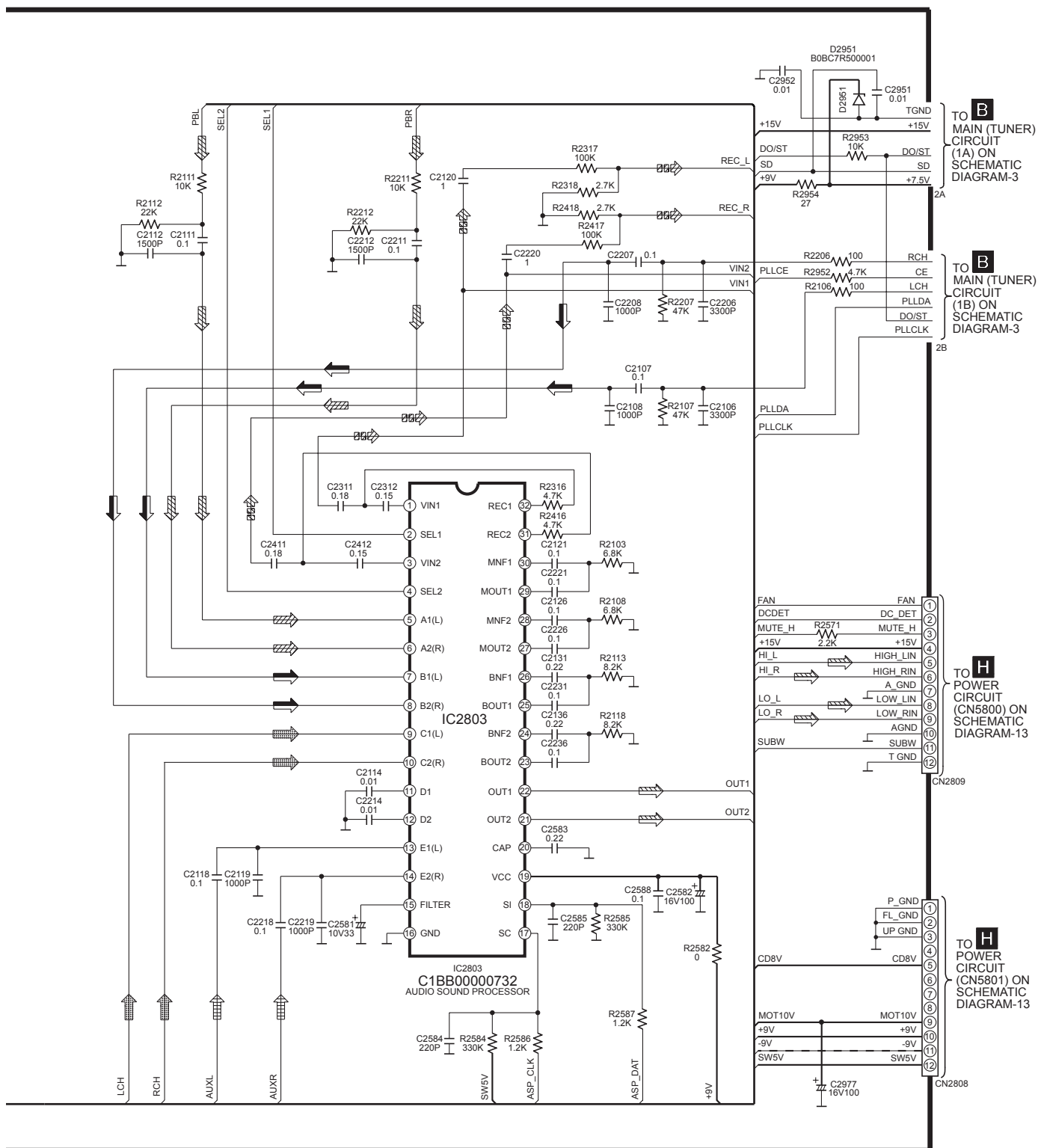
— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 8

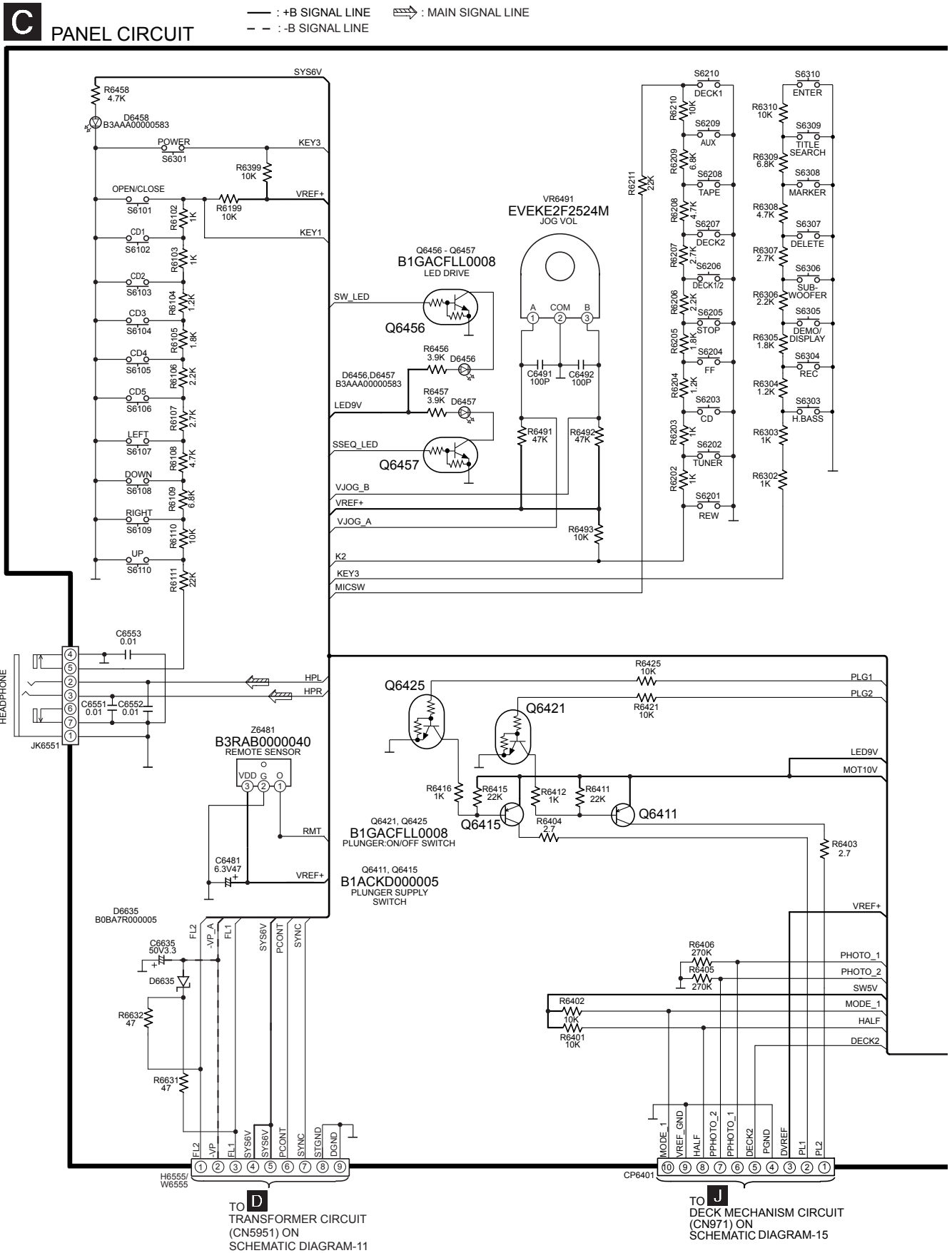
B MAIN CIRCUIT

— : +B SIGNAL LINE  : AUX SIGNAL LINE  : MAIN SIGNAL LINE
 - - : -B SIGNAL LINE  : CD SIGNAL LINE  : PLAYBACK SIGNAL LINE
  : FM/AM SIGNAL LINE  : RECORD SIGNAL LINE



17.4. (C) Panel Circuit

SCHEMATIC DIAGRAM - 9

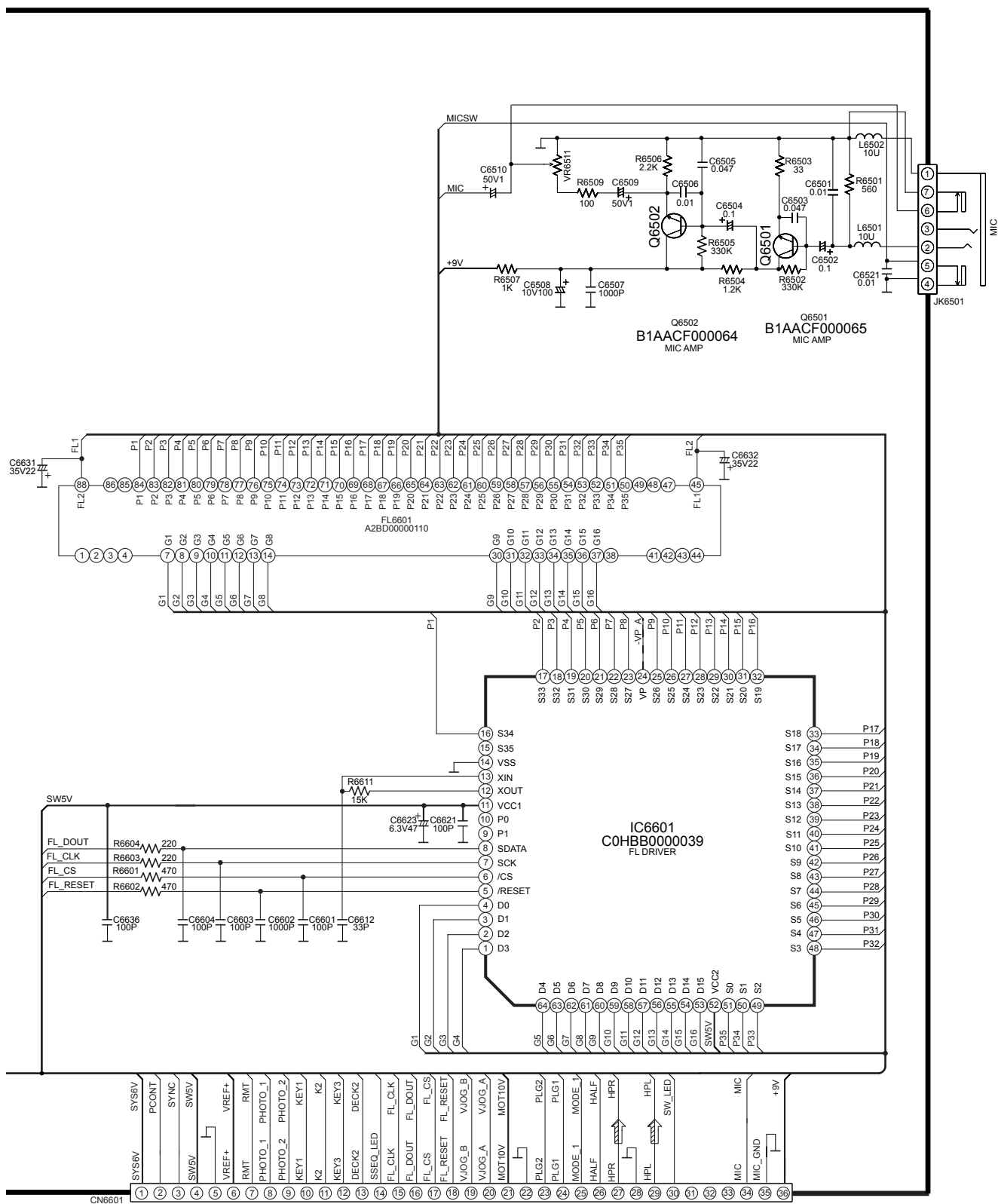


SCHEMATIC DIAGRAM - 10

C

PANEL CIRCUIT

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



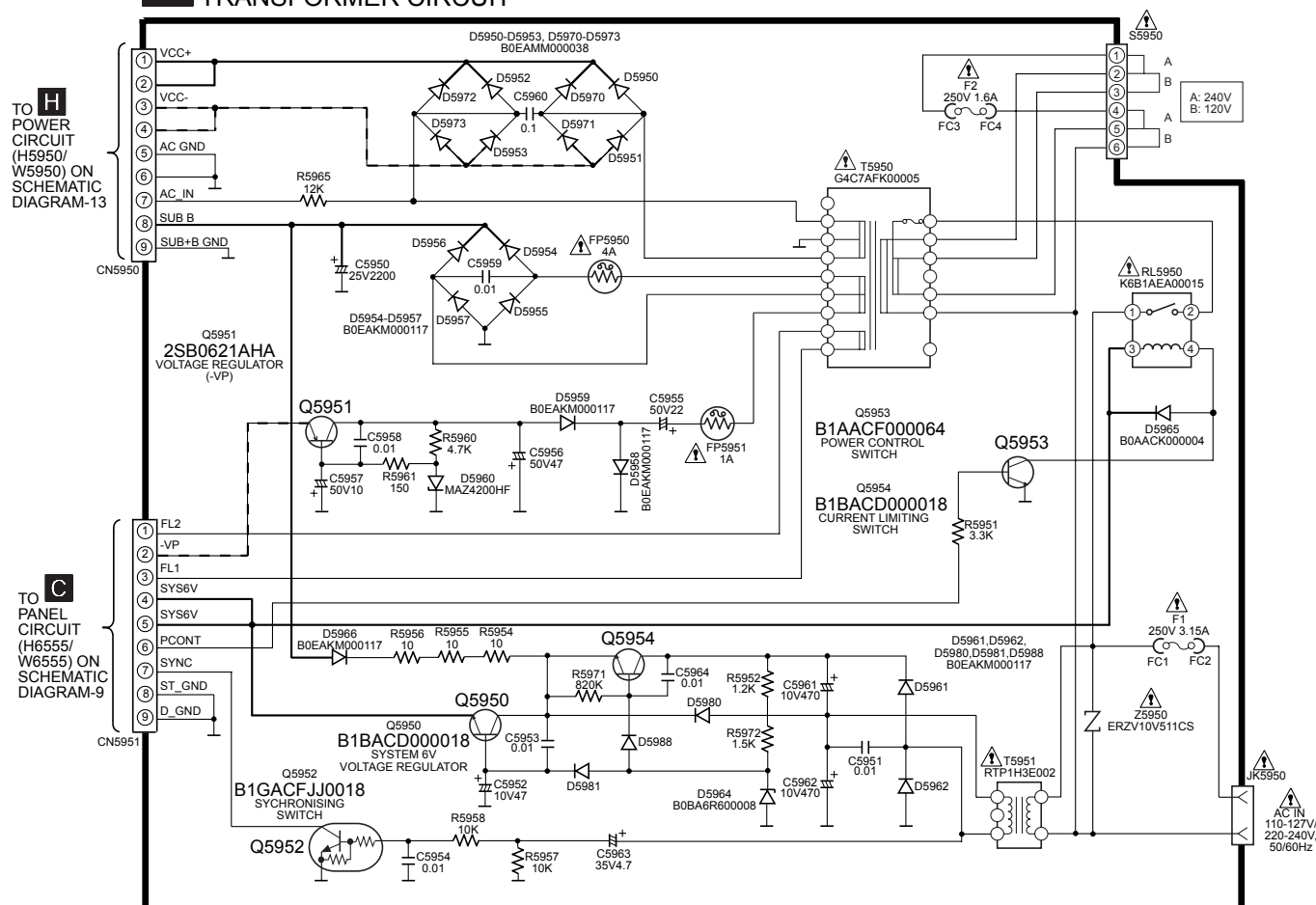
TO **B**
MAIN CIRCUIT
(CN2806) ON
SCHEMATIC
DIAGRAM-5

17.5. (D) Transformer Circuit

SCHEMATIC DIAGRAM - 11

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

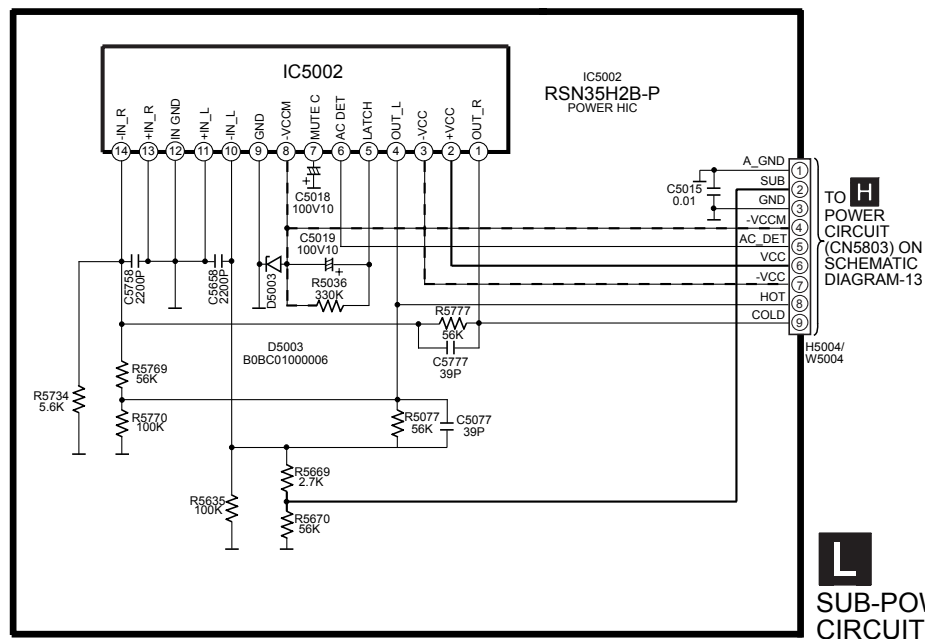
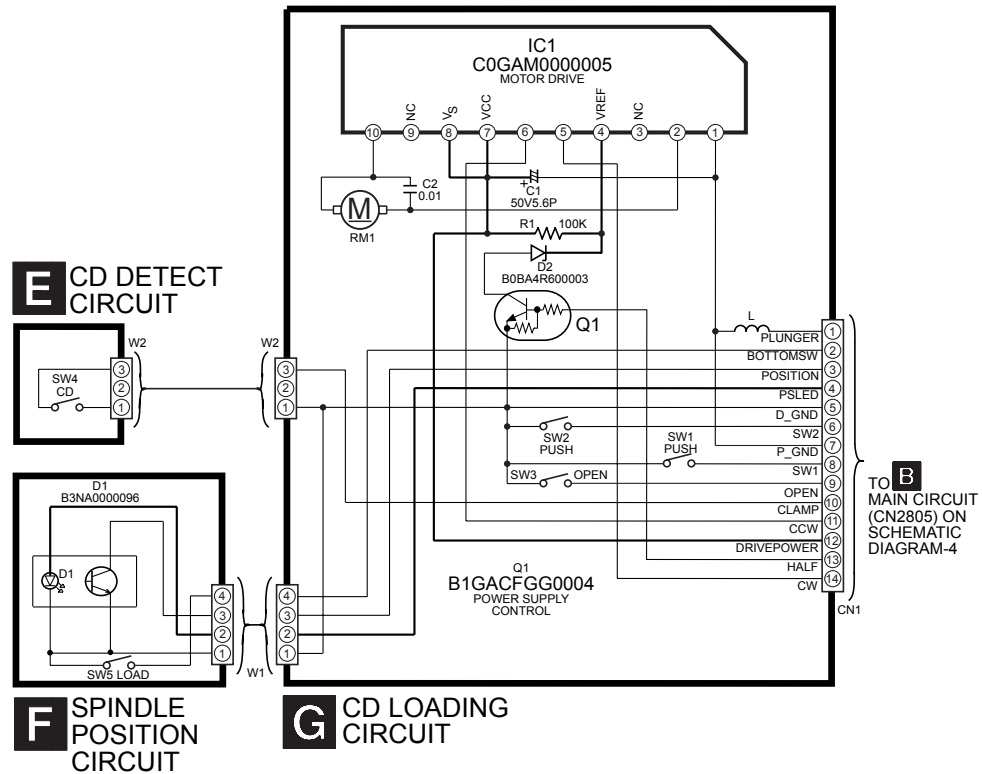
D TRANSFORMER CIRCUIT



17.6. (E) CD Detect Circuit, (F) Spindle Position Circuit, (G) CD Loading Circuit & (L) Sub-Power Circuit

SCHEMATIC DIAGRAM - 12

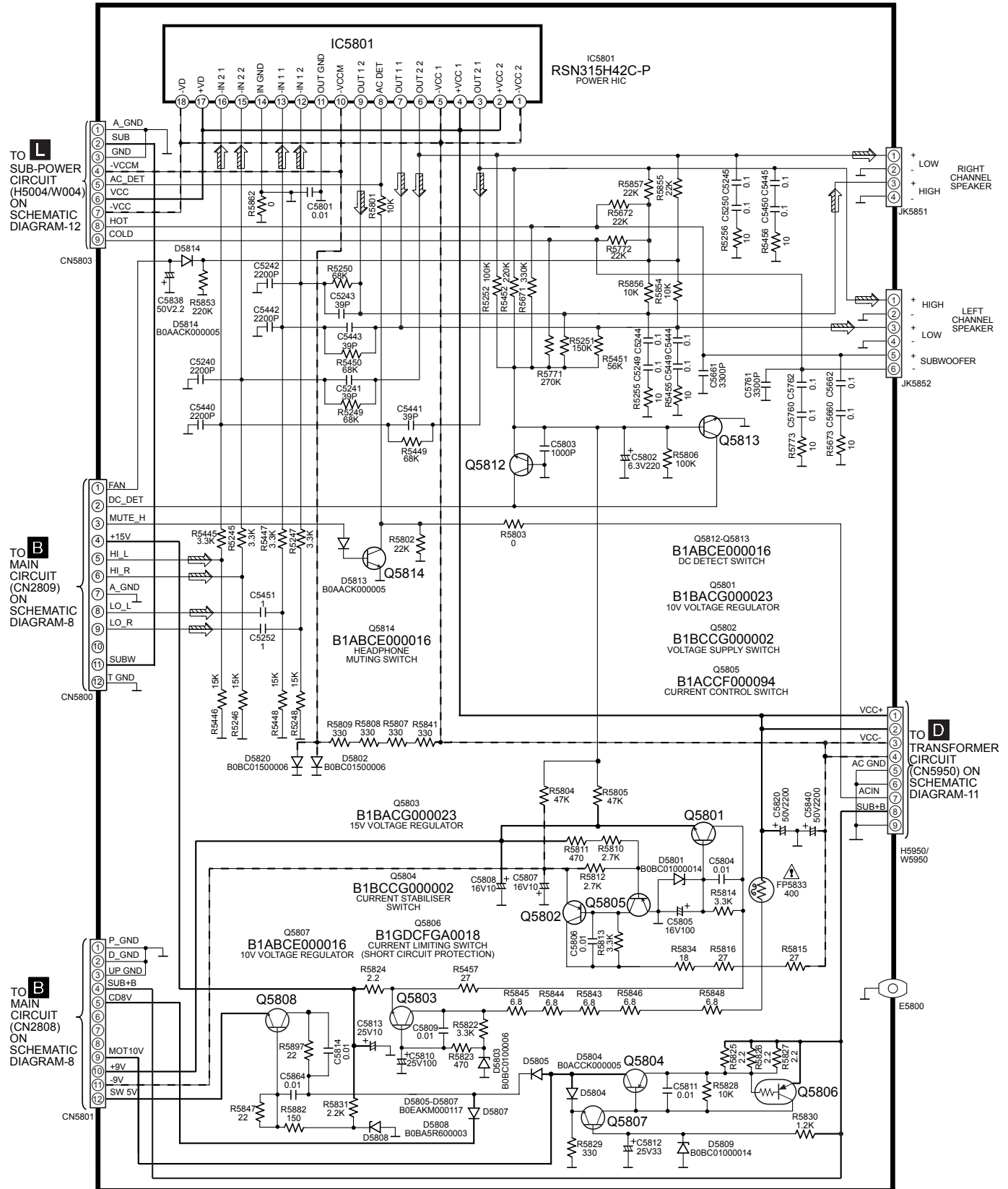
— : +B SIGNAL LINE - - : -B SIGNAL LINE



17.7. (H) Power Circuit



SCHEMATIC DIAGRAM - 13

H POWER CIRCUIT — : +B SIGNAL LINE - - : -B SIGNAL LINE  : MAIN SIGNAL LINE



17.8. (I) Deck Circuit & (J) Deck Mechanism Circuit

SCHEMATIC DIAGRAM -14

— : +B SIGNAL LINE  : PLAYBACK SIGNAL LINE
 : RECORD SIGNAL LINE

DECK CIRCUIT

