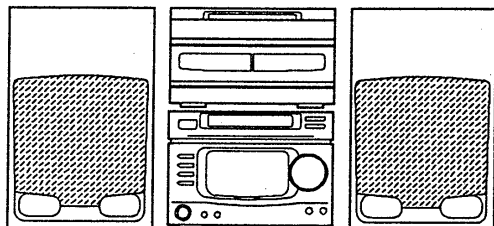


aiwa



NSX-D636



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3 PR1
- BASIC CD MECHANISM: 4ZG-1 DFR

• TYPE: U.K.EE.LH.HE

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-947-070-30T).
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, (S/M Code No.09-946-056-10T).

SYSTEM	AMPLIFIER TUNER	CASSETTE DECK CD PLAYER	REMOTE CONTROLLER	SPEAKERS
NSX-D636	RX-N636	FD-N636	RC-TN520	SX-FN636

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SPECIFICATIONS

TUNER/AMPLIFIER

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	HE, LH, U: 1.3 μ V (75 ohms) 13.2 dBf EE, K: 1.8 μ V (75 ohms) 16.2 dBf EZ: 1.9 μ V (75 ohms) 16.8 dBf
Alternate channel selectivity	50 dB ($\pm$ 400 kHz)
Signal-to-noise ratio	STEREO: 70 dB (HE, LH, U) 65 dB (EE, K, EZ) MONO: 76 dB (HE, LH, U) 75 dB (EE, K, EZ)
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz
Frequency response	30 Hz to 15 kHz (+0.5 dB, -3 dB)
Stereo separation	33 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<MW section>

Frequency range	RX-N636 LH, U: 530 (531) kHz to 1710 (1602) kHz RX-N636 HE, EE, K, EZ: 531 (530) kHz to 1602 (1710) kHz
Usable sensitivity	350 μ V/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<SW section>

Frequency range	SW1: 3.2 MHz to 7.3 MHz SW2: 9.5 MHz to 21.85 MHz
Antenna	Wire antenna

<LW section> E, K, Z models

Frequency range	144 kHz to 290 kHz
Sensitivity	1400 μ V/m
Antenna	Loop antenna

<Timer section>

Program timer	On-timer, free setting
Sleep timer	Setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	RX-N636 HE, LH: 50 W + 50 W (6 ohms, T.H.D. 10% 1 kHz) RX-N636 K: 30 W + 30 W (6 ohms, T.H.D. 1% 1 kHz) 40 W + 40 W (6 ohms, T.H.D. 10% 1 kHz) RX-N636 EE, EZ: 30 W + 30 W (6 ohms, T.H.D. 1% 1 kHz) RX-N636 U: FTC RULE 40 watts per channel, Min. RMS at 6 ohms, from 65 Hz to 15 kHz, with no more than 1% Total Harmonic Distortion
Harmonic distortion	HE: 0.07 % (15 W, 1 kHz, 6 ohms) LH, U, EE, K, EZ: 0.07 % (20 W, 1 kHz, 6 ohms)
Input terminal	VIDEO/AUX: 150 mV (adjustable) MIC: 1.8 mV/10 k Ω
Output terminal	SUPER WOOFER: 1.55 V (RX-N636 K, U, EE, EZ) 1.73 V (RX-N636 HE, LH)

CASSETTE DECK/COMPACT DISC PLAYER

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	CrO ₂ tape: 50 - 16000 Hz Normal tape: 50 - 15000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON, CrO ₂ tape peak level)
Tape speed	4.8 cm/sec. (1 7/8 ips)
Recording system	AC bias
Erase system	AC erase
Motor	DC servo motor $\times$ 1
Heads	Playback head $\times$ 1 (deck 1) Recording/playback/erase head $\times$ 1 (deck 2)

<CD player section>

Disc	Compact disc
Scanning method	Non-contact optical scanner (semi-conductor laser)
Laser	Semiconductor laser (λ = 780 nm)
Rotation speed	Approx. 500 rpm - 200 rpm (CLV)
Error correction	Cross Interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	1-bit linear
Wow/flutter	Unmeasurable
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05% (1 kHz, 0 dB)

SPEAKER SYSTEM

(These values are for one speaker.)

Cabinet type	4 way, bass reflex with surround speaker (magnetism sealed type)
Speaker	130 mm (5 1/8 in.) cone type woofer 80 mm (3 1/4 in.) squawker 50 mm (2 in.) cone type tweeter 20 mm (7/32 in.) ceramic type su- per tweeter 80 mm (3 1/4 in.) surround speaker
Impedance	6 ohms Surround speaker: 16 ohms
Music power	50 W
Output sound pressure level	88 dB/W/m
Dimensions (W $\times$ H $\times$ D)	220 $\times$ 360 $\times$ 270 mm (8 3/4 $\times$ 14 1/4 $\times$ 10 3/4 in.)
Weight	4.3 kg (9 lbs. 8 oz)

COMMON SECTION

Power requirements	HE, LH models: AC 120 V/220 V/240 V, switch- able 50/60 Hz U model: AC 120 V, 60 Hz EE, EZ models: AC 230 V, 50 Hz K model: AC 230-240 V HE, LH models: 95 W U model: 87 W EE, EZ models: 165 W K model: 210 W Main unit: 260 $\times$ 360 $\times$ 342 mm (10 1/4 $\times$ 14 1/4 $\times$ 13 1/2 in.) (vertical placement) 520 $\times$ 182.8 $\times$ 342 mm (20 1/2 $\times$ 7 1/4 $\times$ 13 1/2 in.) (horizontal placement) System: 700 $\times$ 360 $\times$ 342 (27 5/8 $\times$ 14 1/4 $\times$ 13 1/2 in.) HE, LH models RX-N636: 5.1 kg (11 lbs. 4 oz) FD-N636: 3.7 kg (8 lbs. 3 oz) System: 17.4 kg (38.3 lbs.) U, EE, K, EZ models RX-N636: 4.9 kg (10 lbs. 13 oz) FD-N636: 3.7 kg (8 lbs. 3 oz) System: 17.2 kg (38.3 lbs.)
Power consumption (System total)	
Dimensions (W $\times$ H $\times$ D)	
Weight	

- Design and specifications are subject to change without notice.
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■ ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	83-NTE-901-019		IB, ECA(S) (HE)
1	83-NTE-903-019		IB, EGI(S) (EE)
1	83-NTE-902-019		IB, ESF(S) (LH, U, K, EE)
2	83-NFF-605-019		RC, RC-TN520 EX
3	87-006-240-019		AM LOOP ANT CON(KO) (HE)
3	87-006-225-019		AM LOOP ANT NC2 (LH, U, K, EE)
4	87-009-724-019		PLUG, ADPTR, IR39 (LH)
4	87-009-725-019		PLUG, ADPTR IR40 (HE)
5	87-043-095-019		ANTENNA WIRE (HE)
5	87-043-106-019		FM, WIRE ANT (Z) (K, EE)
6	87-043-115-01B		ANT, FEEDER FM (HE, LH, U)

■ SPEAKER LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	83-NS4-001-010		PANEL FR
	83-NS4-008-010		ADAPTOR ASSY
	83-NS4-005-010		SPEAKER GRILL
	83-NS4-602-010		SPEAKER WOOFER (EXCEPT LH)
	83-NS4-604-010		SPEAKER WOOFER H (LH)
	83-NS5-604-010		SPEAKER MID (EXCEPT LH)
	83-NS5-608-010		SPEAKER MID H (LH)
	83-NS5-606-010		SPEAKER (EXCEPT LH)
	83-NS5-610-010		SPEAKER H (LH)
	83-NS4-006-010		GRILL FRAME ASSY
	83-NS5-611-010		SPEAKER CORD Y/B
	83-NS5-612-010		TERMINAL Y/B
	83-NS4-610-010		SPEAKER CORD ASSY

MODEL NO.

RX-N636

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC				MAIN C.B			
	87-017-578-089		IC, GD4052BD (HE)	BPF831	87-030-105-010		FLTR, BPMB6A (K, EE)
	87-002-272-089		IC, TC4052BF (LH, U, K, EE)	C101	87-016-055-099		CAP, E 3300-42 HI-R
	87-001-607-089		IC, NJM4558M	C102	87-016-055-099		CAP, E 3300-42 HI-R
	87-020-966-019		IC, STK4142-2 (K, EE)	C103	87-010-453-099		CAP, ELECT 4700-25V SME
	87-001-582-019		IC, STK4152-2 (HE, LH, U)	C104	87-010-237-089		CAP, E 1000-16
	87-002-967-089		IC, BU4052BF (LH, U, K, EE)	C105	87-010-381-089		CAP, E 330-16 SME
	87-017-375-089		IC, TC4094BF	C106	87-010-430-089		CAP, ELECT (TAPG) 100-63V
	87-017-449-010		IC, XR-1071CP	C107	87-010-392-089		CAP, E 33-35 SME (HE, LH)
	87-017-887-010		IC, XR1090ACP	C107	87-010-260-089		CAP, E 47-25 SME (U, K, EE)
	87-017-673-019		IC, BA3837	C108	87-010-406-089		CAP, E 22-50 SME (HE, U)
	87-017-888-089		IC, NJM4558MD	C108	87-010-392-089		CAP, E 33-35 SME (LH)
	87-001-376-019		IC, LC7218	C108	87-010-260-089		CAP, E 47-25 SME (K, EE)
	87-017-714-019		IC, LA1836	C109	87-010-263-089		CAP, E 100-10 SME 5X11
	87-017-787-010		IC, M62412P	C112	87-010-237-089		CAP, E 1000-16 (HE, LH, U)
	83-NT4-630-010		IC, LC866432V-5583	C112	87-016-127-089		CAP, E 1000-16 KME (K, EE)
	87-017-373-019		IC, NJH32H380A	C113	87-010-403-089		CAP, E 3.3-50 SME
	87-002-872-040		IC, MC14053BF	C115	87-016-247-089		C-CAP, 0.1-50 F
	87-017-309-010		IC, M65830P	C116	87-012-140-089		C-CAP, S 470P-50 CH
				C118	87-016-247-089		C-CAP, 0.1-50 F
				C119	87-018-205-089		CAP, TC-U 0.022-25 F
TRANSISTOR				C120	87-018-205-089		CAP, TC-U 0.022-25 F
	87-026-210-089		C-TR, DTC144EK T147	C152	87-010-374-089		CAP, E 47-10
	89-213-702-019		TR, 2SB1370E	C191	87-010-190-089		C-CAP, S 0.01-50 F (K, EE)
	87-026-609-089		TR, KTA1266GR	C192	87-018-211-089		TC CAP U 0.01-50 (K, EE)
	87-026-610-089		TR, KTC3198GR	C193	87-010-197-089		C-CAP, S 0.01-25 B (K, EE)
	89-327-125-089		C-TR, 2SC2712GR				
	89-332-665-089		TR, 2SC3266GR	C194	87-010-197-089		C-CAP, S 0.01-25 B (K, EE)
	89-111-625-089		C-TR, 2SA1162GR	C201	87-016-073-089		CAP, E 1-50 FX
	89-333-266-089		C-TR, 2SC3326B	C202	87-016-073-089		CAP, E 1-50 FX
	87-026-232-089		C-TR, DTA144WK	C203	87-010-403-089		CAP, E 3.3-50 SME
	89-113-187-889		TR, 2SA1318TU	C204	87-010-403-089		CAP, E 3.3-50 SME
	89-318-155-089		TR, 2SC1815GR	C205	87-010-401-089		CAP, E 1-50 SME
	89-110-155-089		TR, 2SA1015GR	C206	87-010-401-089		CAP, E 1-50 SME
	89-502-464-089		FET, 2SK246Y	C209	87-010-401-089		CAP, E 1-50 SME
	89-318-154-089		TR, 2SC1815Y	C210	87-010-401-089		CAP, E 1-50 SME
	87-026-462-089		TR, 2SC1740S (RS) (HE)	C211	87-010-400-089		CAP, E 0.47-50 SME
	87-026-214-089		TR, DTA114YS	C212	87-010-401-089		CAP, E 1-50 SME
	87-026-213-089		C-TR, DTC114YK	C213	87-010-401-089		CAP, E 1-50 SME
	89-327-143-089		C-TR, 2SC2714 (O)	C214	87-010-381-089		CAP, E 330-16 SME
	89-503-025-089		C-FET, 2SK302 GR	C215	87-010-370-089		CAP, E 330-6.3 SME
	89-502-115-089		C-FET, 2SK211GR (K, EE)	C217	87-010-402-089		CAP, E 2.2-50 SME
	87-026-226-089		C-TR, DTA143EK	C218	87-010-402-089		CAP, E 2.2-50 SME
	87-026-211-089		C-TR, DTA144EK T147	C251	87-010-404-089		CAP, E 4.7-50 SME (HE, K, EE)
	89-505-434-589		C-FET, 2SK543 (4/5)	C251	87-010-374-089		CAP, E 47-10 (LH, U)
				C252	87-010-404-089		CAP, E 4.7-50 SME
				C253	87-010-182-089		C-CAP, S 2200P-50 B
DIODE				C254	87-010-182-089		C-CAP, S 2200P-50 B
	87-020-465-089		DIODE, 1SS133	C255	87-010-404-089		CAP, E 4.7-50 SME
	87-017-447-010		DIODE, GBU 4DL	C256	87-010-404-089		CAP, E 4.7-50 SME
	87-020-331-089		C-DIODE, DAN202K	C257	87-010-545-089		CAP, E 0.22-50 SME (U)
	87-002-608-089		DIODE, DSF10TC	C257	87-010-400-089		CAP, E 0.47-50 SME (EXCEPT U)
	87-017-011-089		DIODE, LT1N4003L				
	87-020-027-089		C-DIODE, 1SS184	C258	87-010-545-089		CAP, E 0.22-50 SME (U)
	87-020-125-089		C-DIODE, 1SS181	C258	87-010-400-089		CAP, E 0.47-50 SME (EXCEPT U)
	87-017-174-089		ZENER, HZS11A3L	C259	87-010-260-089		CAP, E 47-25 SME
	87-017-147-089		ZENER, HZS33-2	C260	87-010-260-089		CAP, E 47-25 SME
	87-001-290-089		ZENER, HZS6B1L	C261	87-010-194-089		C-CAP, S 0.047-25 F
	87-001-731-089		ZENER, HZS6C2L	C262	87-010-408-089		CAP, E 47-50 SME
	87-001-911-089		ZENER, UTZJ4.7A (TAPG)	C263	87-010-154-089		C-CAP, S 10P-50 CH
	87-017-083-089		ZENER, HZS 4C2	C264	87-010-154-089		C-CAP, S 10P-50 CH
	87-017-091-089		ZENER, HZS5C1	C265	87-010-260-089		CAP, E 47-25 SME
	87-017-092-089		ZENER, HZS5C2 (HE)	C266	87-010-260-089		CAP, E 47-25 SME
				C267	87-012-368-089		C-CAP, S 0.1-50F
				C268	87-012-368-089		C-CAP, S 0.1-50F
				C269	87-012-361-089		C-CAP, S 0.056-25 Y

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C270	87-012-361-089	C-CAP, S	0.056-25 Y
C271	87-010-185-089	C-CAP, S	3900P-50 B
C272	87-010-185-089	C-CAP, S	3900P-50 B
C274	87-012-368-089	C-CAP, S	0.1-50F
C301	87-010-196-089	C-CAP, S	0.1-25 F
C302	87-010-260-089	CAP, E	47-25 SME
C303	87-010-544-089	CAP, E	0.1-50 (HE, K, EE)
C303	87-010-546-089	CAP, E	0.33-50 SME (LH, U)
C304	87-010-544-089	CAP, E	0.1-50 (HE, K, EE)
C304	87-010-546-089	CAP, E	0.33-50 SME (LH, U)
C305	87-010-400-089	CAP, E	0.47-50 SME
C306	87-010-400-089	CAP, E	0.47-50 SME
C307	87-010-213-089	C-CAP, S	0.015-25 B (K, EE)
C307	87-010-220-089	C-CAP, S	0.018-25 B (HE)
C307	87-012-365-089	C-CAP, S	0.1-25 F
C307	87-012-365-089	C-CAP, S	0.027-25V BK (LH, U)
C308	87-010-213-089	C-CAP, S	0.015-25 B (K, EE)
C308	87-010-220-089	C-CAP, S	0.018-25 B (HE)
C308	87-012-365-089	C-CAP, S	0.027-25V BK (LH, U)
C310	87-010-196-089	C-CAP, S	0.1-25 F
C349	87-012-142-089	C-CAP, S	0.33-16 F
C350	87-016-081-089	C-CAP, S	0.1-16 RK
C351	87-016-081-089	C-CAP, S	0.1-16 RK
C355	87-010-322-089	C-CAP, S	100P-50 CH
C356	87-010-322-089	C-CAP, S	100P-50 CH
C357	87-010-322-089	C-CAP, S	100P-50 CH
C401	87-010-401-089	CAP, E	1-50 SME
C402	87-010-405-089	CAP, E	10-50 SME
C403	87-010-101-089	CAP, E	220-16 SME
C405	87-010-178-089	C-CAP, S	1000P-50 B
C406	87-010-178-089	C-CAP, S	1000P-50 B
C407	87-010-404-089	CAP, E	4.7-50 SME
C408	87-010-404-089	CAP, E	4.7-50 SME
C409	87-010-404-089	CAP, E	4.7-50 SME
C410	87-010-404-089	CAP, E	4.7-50 SME
C411	87-010-426-089	C-CAP, S	0.012-25 B
C412	87-010-426-089	C-CAP, S	0.012-25 B
C413	87-010-404-089	CAP, E	4.7-50 SME
C414	87-010-404-089	CAP, E	4.7-50 SME
C415	87-010-400-089	CAP, E	0.47-50 SME
C416	87-010-400-089	CAP, E	0.47-50 SME
C417	87-010-197-089	C-CAP, S	0.01-25 B
C418	87-010-197-089	C-CAP, S	0.01-25 B
C419	87-010-184-089	C-CAP, S	3300P-50 B
C420	87-010-184-089	C-CAP, S	3300P-50 B
C421	87-012-155-089	C-CAP, S	180P-50 CH
C422	87-012-155-089	C-CAP, S	180P-50 CH
C423	87-010-405-089	CAP, E	10-50 SME
C424	87-010-405-089	CAP, E	10-50 SME
C430	87-010-405-089	CAP, E	10-50 SME
C431	87-010-401-089	CAP, E	1-50 SME
C500	87-010-194-089	C-CAP, S	0.047-25 F
C501	87-010-545-089	CAP, E	0.22-50 SME
C502	87-010-382-089	CAP, E	22-25 SME
C503	87-010-404-089	CAP, E	4.7-50 SME
C504	87-010-404-089	CAP, E	4.7-50 SME
C505	87-010-404-089	CAP, E	4.7-50 SME
C506	87-010-404-089	CAP, E	4.7-50 SME
C507	87-015-785-089	C-CAP, S	0.1-25 F
C508	87-010-260-089	CAP, E	47-25 SME
C509	87-010-405-089	CAP, E	10-50 SME
C701	87-010-381-089	CAP, E	330-16 SME
C702	87-010-404-089	CAP, E	4.7-50 SME
C703	87-010-197-089	C-CAP, S	0.01-25 B
C704	87-010-197-089	C-CAP, S	0.01-25 B
C711	87-010-263-089	CAP, E	100-10 SME 5X11
C712	87-010-196-089	C-CAP, S	0.1-25 F
C722	87-010-312-089	C-CAP, S	15P-50 CH
C723	87-010-178-089	C-CAP, S	1000P-50 B
C724	87-010-178-089	C-CAP, S	1000P-50 B
C725	87-015-627-089	C-CAP, S	1000P-50 B

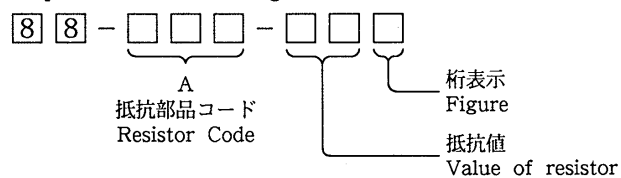
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C726	87-010-178-089	C-CAP, S	1000P-50 B
C727	87-010-194-089	C-CAP, S	0.047-25 F (LH, U, K, EE)
C728	87-010-248-089	CAP, E	220-10 SME
C729	87-012-368-089	C-CAP, S	0.1-50 F (HE)
C732	87-010-197-089	C-CAP, S	0.01-25 B
C742	87-010-198-089	C-CAP, S	0.022-25 (K, EE)
C771	87-010-405-089	CAP, E	10-50 SME
C772	87-010-194-089	C-CAP, S	0.047-25 F
C773	87-010-196-089	C-CAP, S	0.1-25 F
C774	87-010-263-089	CAP, E	100-10 SME 5X11
C775	87-010-405-089	CAP, E	10-50 SME
C776	87-018-134-089	CAP, TC-U	0.01-16 Y (LH, U, K, EE)
C777	87-010-400-089	CAP, E	0.47-50 SME
C778	87-010-401-089	CAP, E	1-50 SME
C779	87-010-401-089	CAP, E	1-50 SME
C780	87-010-197-089	C-CAP, S	0.01-25 B
C781	87-010-405-089	CAP, E	10-50 SME
C782	87-010-405-089	CAP, E	10-50 SME
C787	87-010-184-089	C-CAP, S	3300P-50 B
C788	87-010-184-089	C-CAP, S	3300P-50 B
C789	87-010-179-089	C-CAP, S	1200P-50 B
C790	87-010-179-089	C-CAP, S	1200P-50 B
C791	87-010-401-089	CAP, E	1-50 SME
C792	87-010-180-089	C-CAP, S	1500P-50 B (HE, LH, U)
C792	87-010-182-089	C-CAP, S	2200P-50 B (K, EE)
C793	87-010-189-089	C-CAP, S	8200P-50 B
C794	87-010-260-089	CAP, E	47-25 SME
C795	87-010-194-089	C-CAP, S	0.047-25 F
C796	87-010-403-089	CAP, E	3.3-50 SME
C797	87-010-405-089	CAP, E	10-50 SME (LH, U, K, EE)
C798	87-010-196-089	C-CAP, S	0.1-25 F (LH, U, K, EE)
C802	87-010-154-089	C-CAP, S	10P-50 CH (HE, LH, U)
C802	87-010-311-089	C-CAP, S	12P-50 CH (K, EE)
C804	87-010-151-089	C-CAP, S	7P-50 CH (HE, LH, U)
C805	87-010-092-089	C-CAP, S	3P-50 CH (K, EE)
C805	87-010-059-089	C-CAP, S	6P CH (HE, LH, U)
C806	87-010-145-089	C-CAP, S	1P-50 CH (HE, LH, U)
C806	87-010-148-089	C-CAP, S	4P-50 CH (K, EE)
C807	87-010-154-089	C-CAP, S	10P-50 CH (HE, LH, U)
C807	87-010-313-089	C-CAP, S	18P-50 CH (K, EE)
C808	87-010-322-089	C-CAP, S	100P-50 CH
C809	87-010-197-089	C-CAP, S	0.01-25 B (LH, U, K, EE)
C809	87-010-426-089	C-CAP, S	0.012-25 B (HE)
C810	87-010-197-089	C-CAP, S	0.01-25 B
C811	87-010-149-089	C-CAP, S	5P-50 CH
C812	87-010-313-089	C-CAP, S	18P-50 CH
C813	87-010-197-089	C-CAP, S	0.01-25 B
C814	87-010-197-089	C-CAP, S	0.01-25 B
C816	87-010-197-089	C-CAP, S	0.01-25 B
C817	87-010-197-089	C-CAP, S	0.01-25 B
C818	87-010-197-089	C-CAP, S	0.01-25 B
C819	87-010-197-089	C-CAP, S	0.01-25 B
C820	87-010-260-089	CAP, E	47-25 SME
C821	87-010-197-089	C-CAP, S	0.01-25 B
C822	87-010-197-089	C-CAP, S	0.01-25 B (HE, LH, U)
C823	87-010-197-089	C-CAP, S	0.01-25 B
C827	87-010-145-089	C-CAP, S	1P-50 CH (K, EE)
C831	87-010-154-089	C-CAP, S	10P-50 CH
C832	87-010-314-089	C-CAP, S	22P-50 CH (K, EE)
C834	87-010-154-089	C-CAP, S	10P-50 CH (K, EE)
C835	87-010-154-089	C-CAP, S	10P-50 CH
C836	87-010-312-089	C-CAP, S	15P-50 CH
C837	87-010-312-089	C-CAP, S	15P-50 CH
C840	87-010-197-089	C-CAP, S	0.01-25 B
C843	87-010-146-089	C-CAP, S	2P-50 CH
C851	87-010-197-089	C-CAP, S	0.01-25 B (K, EE)
C941	87-010-197-089	C-CAP, S	0.01-25 B (K, EE)
C942	87-010-311-089	C-CAP, S	12P-50 CH (K, EE)
C944	87-010-154-089	C-CAP, S	10P-50 CH (K, EE)
C944	87-010-149-089	C-CAP, S	5P-50 CH (LH, U)

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C945	87-014-050-089		CAP, PP 510P-100 J(K, EE)	L953	87-006-256-019		COIL, ANT SW2(SG7) (HE)
C946	87-010-401-089		CAP, E 1-50 SME	L954	87-005-372-089		COIL, S 1 MH TAPG(HE)
C947	87-010-197-089		C-CAP, S 0. 01-25 B(LH, U, K, EE)	L955	87-005-372-089		COIL, S 1 MH TAPG(HE)
C948	87-010-401-089		CAP, E 1-50 SME(LH, U, K, EE)	L956	87-007-326-019		COIL, OSC MW(SG) (HE)
C949	87-010-196-089		C-CAP, S 0. 1-25 F(K, EE)	L957	87-007-327-019		COIL, OSC SW1(SG) (HE)
C950	87-010-322-089		C-CAP, S 100P-50 CH(LH, U, K, EE)	L958	87-007-332-019		COIL, OSC SW2(SG7) (HE)
C951	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	L981	81-MX4-620-019		AM PACK 3, S(LH, U)
C952	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	L981	81-MX4-619-019		AM PACK 4(K, EE)
C953	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	R105	87-022-050-089		RESIS METAL 1W-0. 22J
C954	87-010-263-089		CAP, E 100-10 SME 5X11 (HE)	R106	87-022-050-089		RESIS METAL 1W-0. 22J
C955	87-010-315-089		C-CAP, S 27P-50 CH(HE)	R125	87-025-469-089		RES, NF2. 2-1/4WJ(U)
C956	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	R283	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)
C957	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	R284	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)
C958	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	R289	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)
C959	87-010-544-089		CAP, E 0. 1-50(HE)	R290	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)
C961	87-014-051-089		CAP, PP 560P-100 J(HE)	RY101	87-045-361-019		RELAY, DH12D2-OS(M)-2
C962	87-014-073-089		CAP, PP 4700P-100 J(HE)	RY102	87-045-335-010		RELAY, G5Z-2A 12VDC
C963	87-010-312-089		C-CAP, S 15P-50 CH(HE)	SFR722	87-024-171-089		SFR, 4. 7K DIA6 V(HE, LH, U)
C964	87-012-150-089		C-CAP, S 20P-50 CH(HE)	SFR722	87-024-651-080		SFR, 6. 8K DIA6 V(K, EE)
C965	87-010-186-089		C-CAP, S 4700P-50 B(HE)	SFR771	87-024-173-089		SFR, 22K DIA6 V
C970	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	TC701	87-011-221-089		TRIMER. 30P VCT51
C971	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	TC801	87-011-219-089		CAP TRIMMER 10P VCT
C972	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	TC802	87-011-219-089		CAP TRIMMER 10P VCT
C973	87-010-150-089		C-CAP, S 6P-50 CH(HE)	TC803	87-011-219-089		CAP TRIMMER 10P VCT(K, EE)
C976	87-010-400-089		CAP, E 0. 47-50 SME(HE)	TC942	87-011-221-089		TRIMMER. 30P VCT51(K, EE)
C977	87-010-405-089		CAP, E 10-50 SME(HE)	TC951	87-011-220-089		CAP TRIMMER 20P VCT(HE)
C983	87-010-544-089		CAP, E 0. 1-50(LH, U, K, EE)	TC952	87-011-221-089		TRIMMER. 30P VCT51(HE)
C985	87-010-196-089		C-CAP, S 0. 1-25 F(LH, U, K, EE)	TC953	87-011-221-089		TRIMMER. 30P VCT51(HE)
C987	87-018-134-089		CAP, TC-U 0. 01-16 Y(HE)	VR351	82-NF5-660-019		VR 50K BX2 RK14K 12A
C990	87-010-197-089		C-CAP, S 0. 01-25 B(LH, U, K, EE)	W101	81-MX4-647-019		F-CABEL, 7P-2. 5
C991	87-010-196-089		C-CAP, S 0. 1-25 F(HE)	W304	82-NT3-631-119		CORD FG 15P
C995	87-010-197-089		C-CAP, S 0. 01-25 B(HE)	X703	84-508-618-019		VIB, CER CSB 456 F/5
C996	87-010-196-089		C-CAP, S 0. 1-25 F(HE)	X704	87-030-354-019		VIB, CF BFU450C(HE)
CF801	87-008-423-019		CF, SFE10. 7 MS3G-A(K, EE)	X721	87-030-163-019		VIB, XTAL 7. 2MHZ(NDK)
CF801	87-008-261-019		FLTR, SFE10. 7MA5-A(HE, LH, U)				
CF802	82-785-747-019		CF, MS2 GHY, R(K, EE)				
CF802	87-008-261-019		FLTR, SFE10. 7MA5-A(HE, LH, U)				
D801	87-002-730-089		VARI-CAP SVC203SPA				
D802	87-002-730-089		VARI-CAP SVC203SPA				
D803	87-002-730-089		VARI-CAP SVC203SPA				
D804	87-002-730-089		VARI-CAP SVC203SPA(K, EE)				
D958	87-017-568-089		VARI-CAP, SVC 342 M/L(HE)				
J251	87-033-226-019		TERMINAL, SP 4P (JT)				
J252	87-049-855-019		JACK, 6. 3 W/S				
J253	87-099-475-019		JACK, PIN 3P BLK W/E				
J301	80-MT3-616-019		JACK, PIN 2P				
J801	82-NF5-621-019		ANTTERM JBT 0222(HE, LH, U)				
J801	87-033-230-019		TERMINAL, ANT AJ-2016(K, EE)				
L191	87-005-366-019		COIL, IUH(K, EE)				
L192	87-005-366-019		COIL, IUH(K, EE)				
L701	81-631-643-019		COIL, 1 POLE MPX				
L702	81-631-643-019		COIL, 1 POLE MPX				
L741	87-006-253-019		COIL, FM DET N				
L742	81-631-612-019		CFMT 450A(HE)				
L742	82-NT1-659-019		FLTR, CFAZ-450 2NT(LH, U, K, EE)				
L770	87-003-102-089		COIL, 10UH(K, EE)				
L771	87-003-098-089		COIL, 2. 2UH(HE, LH, U)				
L801	87-006-249-019		COIL, ANT FM3/4TS, S				
L802	87-006-254-019		COIL, ANT FM2-3/4TS, S				
L803	87-006-244-019		COIL, RF FM 3-1/2T, L4				
L804	87-006-250-019		COIL, RF FM 3-1/2TS, L4				
L805	87-003-098-089		COIL, 2. 2UH				
L806	87-008-427-019		COIL, FMIFT (4T)				
L807	87-006-205-019		COIL, OSC FM (7K)				
L831	87-006-250-019		COIL, RF FM 3-1/2TS, L4(K, EE)				
L832	87-003-098-089		COIL, 2. 2UH				
L941	87-006-208-019		COIL, ANT LW(K, EE)				
L942	87-007-305-019		COIL, OSC LW S(LH, U, K, EE)				
L951	87-006-236-019		COIL, ANT MW(SG) (HE)				
L952	87-006-237-019		COIL, ANT SW1(SG) (HE)				
L953	87-006-256-019		COIL, ANT SW2(SG7) (HE)				
L954	87-005-372-089		COIL, S 1 MH TAPG(HE)				
L955	87-005-372-089		COIL, S 1 MH TAPG(HE)				
L956	87-007-326-019		COIL, OSC MW(SG) (HE)				
L957	87-007-327-019		COIL, OSC SW1(SG) (HE)				
L958	87-007-332-019		COIL, OSC SW2(SG7) (HE)				
L981	81-MX4-620-019		AM PACK 3, S(LH, U)				
L981	81-MX4-619-019		AM PACK 4(K, EE)				
R105	87-022-050-089		RESIS METAL 1W-0. 22J				
R106	87-022-050-089		RESIS METAL 1W-0. 22J				
R125	87-025-469-089		RES, NF2. 2-1/4WJ(U)				
R283	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)				
R284	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)				
R289	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)				
R290	87-022-391-089		RES, M/F 0. 47-1W(EXCEPT U)				
RY101	87-045-361-019		RELAY, DH12D2-OS(M)-2				
RY102	87-045-335-010		RELAY, G5Z-2A 12VDC				
SFR722	87-024-171-089		SFR, 4. 7K DIA6 V(HE, LH, U)				
SFR722	87-024-651-080		SFR, 6. 8K DIA6 V(K, EE)				
SFR771	87-024-173-089		SFR, 22K DIA6 V				
TC701	87-011-221-089		TRIMER. 30P VCT51				
TC801	87-011-219-089		CAP TRIMMER 10P VCT				
TC802	87-011-219-089		CAP TRIMMER 10P VCT				
TC803	87-011-219-089		CAP TRIMMER 10P VCT(K, EE)				
TC942	87-011-221-089		TRIMMER. 30P VCT51(K, EE)				
TC951	87-011-220-089		CAP TRIMMER 20P VCT(HE)				
TC952	87-011-221-089		TRIMMER. 30P VCT51(HE)				
TC953	87-011-221-089		TRIMMER. 30P VCT51(HE)				
VR351	82-NF5-660-019		VR 50K BX2 RK14K 12A				
W101	81-MX4-647-019		F-CABEL, 7P-2. 5				
W304	82-NT3-631-119		CORD FG 15P				
X703	84-508-618-019		VIB, CER CSB 456 F/5				
X704	87-030-354-019		VIB, CF BFU450C(HE)				
X721	87-030-163-019		VIB, XTAL 7. 2MHZ(NDK)				
FRONT C. B							
C201	87-010-408-049		CAP, E 47-50 SME				
C202	87-010-404-049		CAP, E 4. 7-50 SME				
C203	87-010-404-049		CAP, E 4. 7-50 SME				
C204	87-010-263-049		CAP, E 100-10				
C205	87-015-695-049		CAP, E 1-50 7L				
C206	87-015-695-049		CAP, E 1-50 7L				
C207	87-010-754-049		CAP, E 220-10 SRA 7L				
C401	87-010-178-089		C-CAP, S 1000P-50 B				
C402	87-010-196-089		C-CAP, S 0. 1-25 F				
C403	87-010-196-089		C-CAP, S 0. 1-25 F				
C404	87-010-196-089		C-CAP, S 0. 1-25 F				
C501	87-010-060-049		CAP, E 100-16 7L				
C604	87-010-183-089		C-CAP, S 2700P-50 B				
C605	87-010-544-049		CAP, E 0. 1-50 SME				
C606	87-010-401-049		CAP, E 1-50 SME				
C607	87-012-140-089		C-CAP, S 470P-50 CH				
C608	87-010-405-049		CAP, E 10-50 SME				
C609	87-010-196-089		C-CAP, S 0. 1-25 F				
C610	87-012-140-089		C-CAP, S 470P-50 CH				
C613	87-010-196-089		C-CAP, S 0. 1-25 F				
C624	87-010-183-089		C-CAP, S 2700P-50 B				
C625	87-010-544-049		CAP, E 0. 1-50 SME				
C626	87-010-401-049		CAP, E 1-50 SME				
C627	87-012-140-089		C-CAP, S 470P-50 CH				
C640	87-010-405-049		CAP, E 10-50 SME				
C644	87-010-401-049		CAP, E 1-50 SME				
C645	87-010-263-049		CAP, E 100-10				
C646	87-010-197-089		C-CAP, S 0. 01-25 B				
C901	87-015-681-049		CAP, E 10-16 7L				
C902	87-010-196-089		C-CAP, S 0. 1-25 F				
C903	87-010-178-089		C-CAP, S 1000P-50 B				
C904	87-010-196-089		C-CAP, S 0. 1-25 F				
C905	87-010-314-089		C-CAP, S 22P-50 CH				

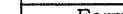
REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C906	87-010-317-089		C-CAP, S 39P-50 CH	C852	87-010-401-089		CAP, E 1-50 SME
C907	87-010-318-089		C-CAP, S 47P-50 CH	C853	87-010-196-089		C-CAP, S 0.1-25 F
FL901	83-NF5-630-019		FIL, BJ238GK	C854	87-010-196-089		C-CAP, S 0.1-25 F
J601	82-NF7-630-019		JACK, 3.5 MO	C855	87-010-260-089		CAP, E 47-25 SME
J621	82-NF7-630-019		JACK, 3.5 MO	C856	87-010-198-089		C-CAP, S 0.022-25 B
LED301	87-017-297-080		LED, SEL1550CM TP7	C901	87-010-248-089		CAP, E 220-10 SME
LED302	87-017-297-080		LED, SEL1550CM TP7	C902	87-010-384-089		CAP, E 100-25 SME
LED303	87-017-297-080		LED, SEL1550CM TP7	C903	87-010-186-089		C-CAP, S 4700P-50 B
LED304	87-017-297-080		LED, SEL1550CM TP7	C904	87-010-322-089		C-CAP, S 100P-50 CH
LED305	87-017-297-080		LED, SEL1550CM TP7	C905	87-010-401-089		CAP, E 1-50 SME
LED306	87-017-297-080		LED, SEL1550CM TP7	C906	87-010-187-089		C-CAP, S 5600P-50 B
LED307	87-017-297-080		LED, SEL1550CM TP7	C907	87-010-193-089		C-CAP, S 0.033-25 F
LED308	87-017-297-080		LED, SEL1550CM TP7	C908	87-010-544-089		CAP, E 0.1-50
LED309	87-017-297-080		LED, SEL1550CM TP7	C909	87-010-188-089		C-CAP, S 6800P-50 B
LED310	87-017-297-080		LED, SEL1550CM TP7	C910	87-012-365-089		C-CAP, S 0.027-25V BK
LED311	87-017-297-080		LED, SEL1550CM TP7	C911	87-010-263-089		CAP, E 100-10 SME 5X11
LED312	87-017-297-080		LED, SEL1550CM TP7	C912	87-010-196-089		C-CAP, S 0.1-25 F
LED313	87-070-012-080		LED, SEL1213C TP7	C913	87-010-316-089		C-CAP, S 33P-50 CH
LED314	87-070-011-080		LED, SEL1413E TP7	C914	87-010-177-089		C-CAP, S 820P-50 SL
LED315	87-070-012-080		LED, SEL1213C TP7	C915	87-010-316-089		C-CAP, S 33P-50 CH
LED316	87-070-011-080		LED, SEL1413E TP7	C916	87-010-177-089		C-CAP, S 820P-50 SL
LED317	87-070-012-080		LED, SEL1213C TP7	C917	87-010-179-089		C-CAP, S 1200P-50 B
LED318	87-070-011-080		LED, SEL1413E TP7	C918	87-010-196-089		C-CAP, S 0.1-25 F
LED319	87-070-012-080		LED, SEL1213C TP7	C919	87-010-260-089		CAP, E 47-25 SME
LED320	87-070-011-080		LED, SEL1413E TP7	C920	87-010-400-089		CAP, E 0.47-50 SME
S901	87-036-215-089		SW, TACT EVQ21404M	C921	87-010-400-089		CAP, E 0.47-50 SME
S902	87-036-215-089		SW, TACT EVQ21404M	C922	87-010-196-089		C-CAP, S 0.1-25 F
S903	87-036-215-089		SW, TACT EVQ21404M	C923	87-010-187-089		C-CAP, S 5600P-50 B
S904	87-036-215-089		SW, TACT EVQ21404M	C924	87-010-179-089		C-CAP, S 1200P-50 B
S905	87-036-215-089		SW, TACT EVQ21404M	C925	87-010-198-089		C-CAP, S 0.022-25 B
S906	87-036-215-089		SW, TACT EVQ21404M	C926	87-010-196-089		C-CAP, S 0.1-25 F
S907	87-036-215-089		SW, TACT EVQ21404M	C927	87-010-181-089		C-CAP, S 1800P-50 B
S908	87-036-215-089		SW, TACT EVQ21404M	C928	87-010-181-089		C-CAP, S 1800P-50 B
S909	87-036-215-089		SW, TACT EVQ21404M	C929	87-010-382-089		CAP, E 22-25 SME
S910	87-036-215-089		SW, TACT EVQ21404M	C941	87-010-197-089		C-CAP, S 0.01-25 B
S911	87-036-215-089		SW, TACT EVQ21404M	C942	87-010-197-089		C-CAP, S 0.01-25 B
S912	87-036-215-089		SW, TACT EVQ21404M	L901	87-005-490-089		COIL, 270UH J FLR50
S913	87-036-215-089		SW, TACT EVQ21404M	VR851	83-NT4-635-019		VOL, 50KBX2(M)
S914	87-036-215-089		SW, TACT EVQ21404M				
S915	87-036-215-089		SW, TACT EVQ21404M				
S916	87-036-215-089		SW, TACT EVQ21404M				
S917	87-036-215-089		SW, TACT EVQ21404M				
S918	87-036-215-089		SW, TACT EVQ21404M				
S919	87-036-215-089		SW, TACT EVQ21404M				
S922	87-036-215-089		SW, TACT EVQ21404M				
S923	87-036-215-089		SW, TACT EVQ21404M				
S924	87-036-215-089		SW, TACT EVQ21404M				
VR601	83-NM1-627-019		VR, 10KB RK11K1130				
VR602	81-MX4-637-019		VR, 10KA RK11K1130				
X901	87-030-376-089		VIB, CER CSA5.76MG200				
DSP/GEQ C. B							
C803	87-010-194-089		C-CAP, S 0.047-25 F				
C804	87-010-194-089		C-CAP, S 0.047-25 F				
C805	87-010-186-089		C-CAP, S 4700P-50 B				
C806	87-010-186-089		C-CAP, S 4700P-50 B				
C807	87-010-195-089		C-CAP, S 0.068-25 F				
C808	87-010-195-089		C-CAP, S 0.068-25 F				
C809	87-010-401-089		CAP, E 1-50 SME				
C810	87-010-401-089		CAP, E 1-50 SME				
C850	87-010-196-089		C-CAP, S 0.1-25 F				
C851	87-010-401-089		CAP, E 1-50 SME				
AC2 C. B							
△	87-050-029-019		AC CORD ASSY, K 3P(K)				
△PT1	83-NF5-608-019		PT, 3NF-5 E. K(K, EE)				
△PT1	83-NF5-606-019		PT, 3NF-5 HE(HE, LH)				
△PT1	83-NFF-619-019		PT, 3NFF-U(U)				
R101	87-022-537-089		RES, NF 0.68-1/2W J				
R102	87-022-537-089		RES, NF 0.68-1/2W J				
PT C. B(HE, LH, U)							
△	87-050-034-019		AC CORD, ASSY, E(HE)				
△	87-050-053-019		AC CORD, ASSY, U-2(U)				
△	87-034-749-019		AC CORD, H W/PLUG(LH)				
△	87-033-147-019		CLAMP, FUSE(HE, LH)				
	82-304-743-019		TERMINAL, 1P(HE, LH, U)				
△F101	87-035-415-019		FUSE, T2. 5A 250V UL(HE, LH)				
△SW101	87-036-229-019		SW, SL DP3C RA(HE, LH)				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



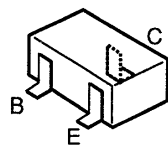
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions/寸法 (mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35	108
1/10W	2125	± 5 %	CJ		2	1.25	1.45	118
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7	128

TRANSISTOR ILLUSTRATION

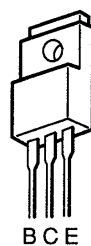


2SA1015
2SA1318
2SC1815
2SC3266
KTA1266
KTC3198

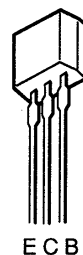


2SA1162
2SC2712
2SC2714
2SC3326
DTA143EK

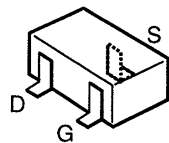
DTA144EK
DTA144WK
DTC114YK
DTC144EK



2SB1370



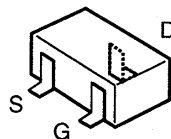
2SC1740S
DTA114YS



2SK211
2SK302



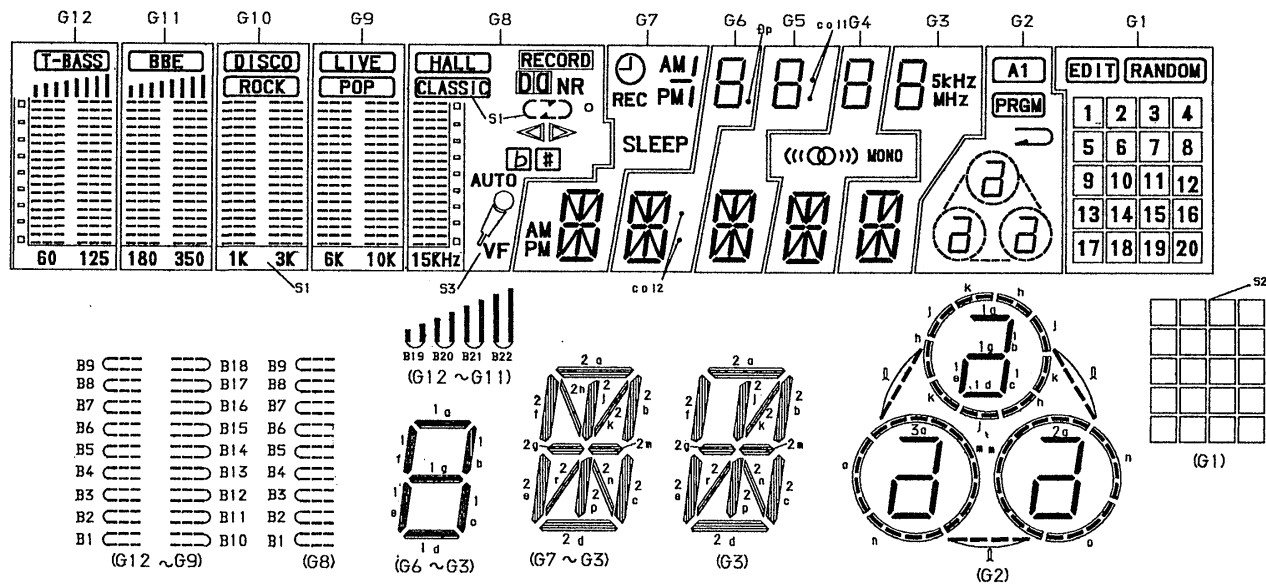
2SK246



2SK543

FL (BJ238GK) GRID ASSIGNMENT/ANODE CONNECTION

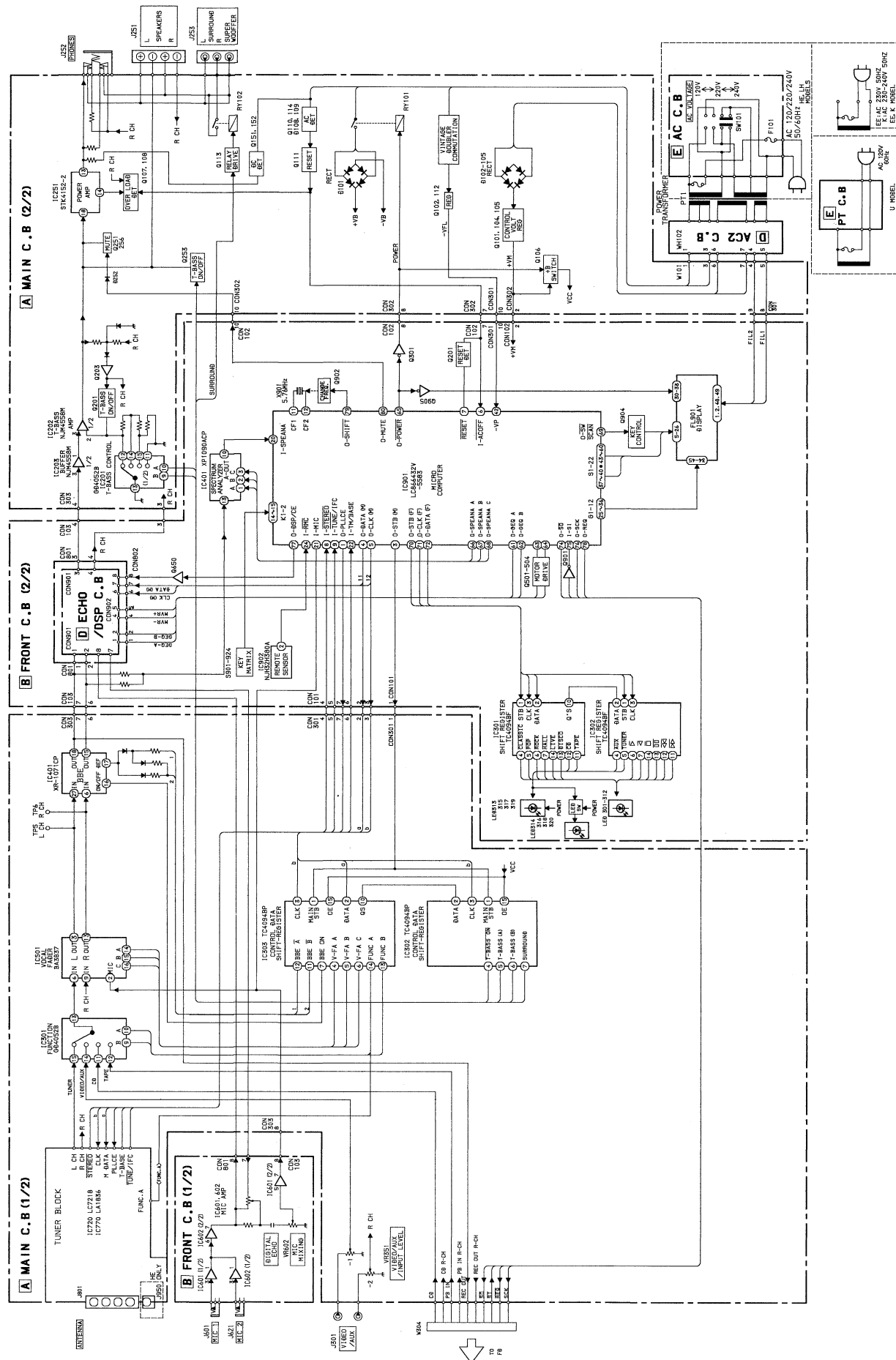
GRID ASSIGNMENT



ANODE CONNECTION

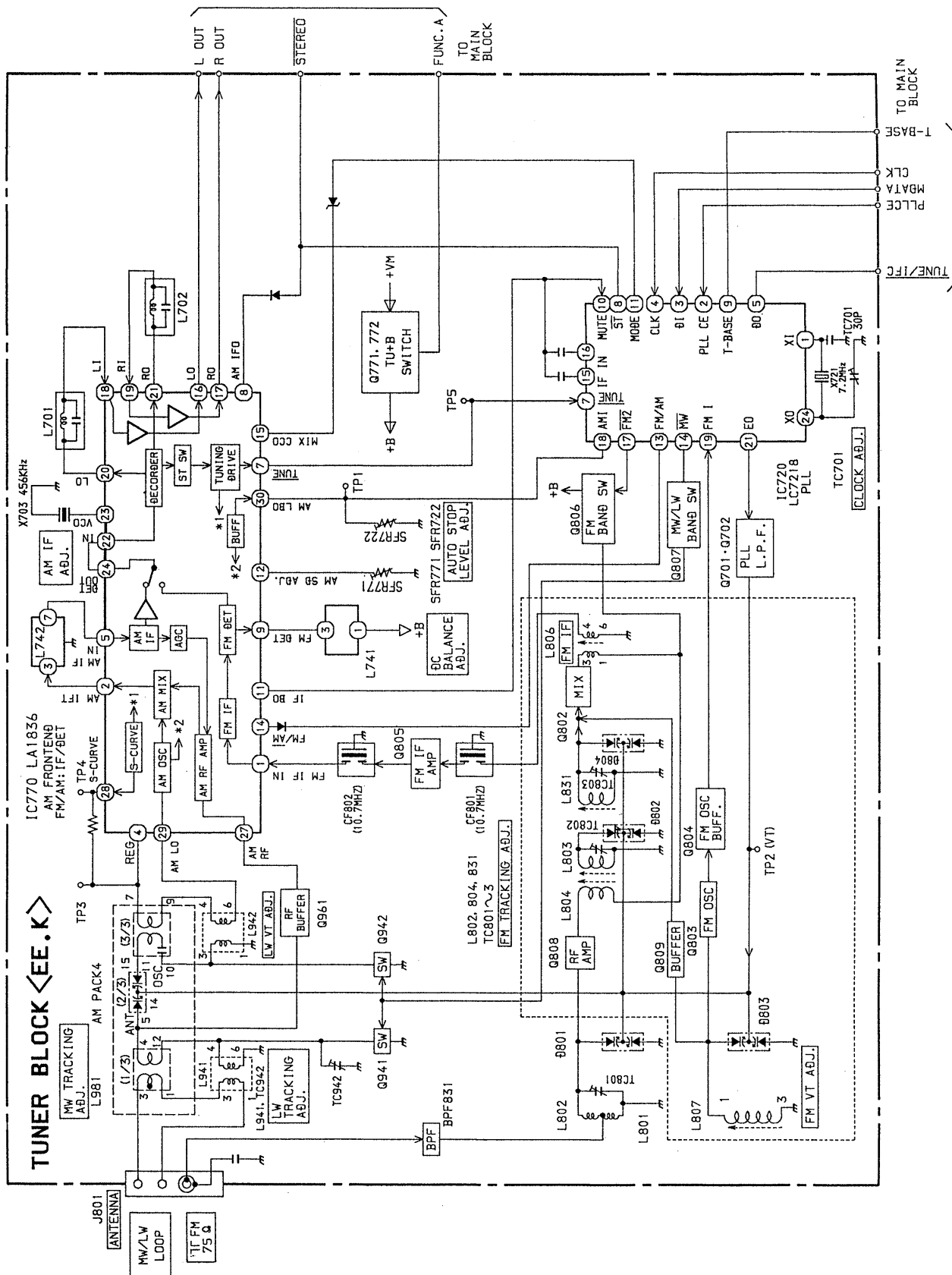
	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1
P1	B10	B10	B10	B10	S3	2d	2d	2d	2d	2d	n	20
P2	B1	B1	B1	B1	B1	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	o	19
P3	B11	B11	B11	B11	AUTO	2n	2n	2n	2n	2n	3e	18
P4	B2	B2	B2	B2	B2	2r	2r	2r	2r	2r	3c	17
P5	B12	B12	B12	B12	(b)	2c	2c	2c	2c	2c	3a, 3d, 3g	16
P6	B3	B3	B3	B3	B3	2e	2e	2e	2e	2e	3b	15
P7	B13	B13	B13	B13	(#)	2m	2m	2m	2m	2m	2e	14
P8	B4	B4	B4	B4	B4	2g	2g	2g	2g	2g	2c	13
P9	B5	B5	B5	B5	B5	2f	2f	2f	2f	2f	2a, 2d, 2g	12
P10	B15	B15	B15	B15	▷	2b	2b	2b	2b	2b	l	11
P11	B6	B6	B6	B6	B6	2k	2k	2k	2k	2k	j	10
P12	B16	B16	B16	B16	◁	2h	2h	2h	2h	2h	MHz	9
P13	B7	B7	B7	B7	B7	2a	2a	2a	2a	2a	k	8
P14	B14	B14	B14	B14	⌋	PM (DOWN)	col 2	col 1 (UP)	MONO	KHz	2b	7
P15	B17	B17	B17	B17	⌈	AM (DOWN)	0p	col 1 (DOWN)	(((0)))	5	1e	6
P16	B8	B8	B8	B8	B8	SLEEP	1d	1d	1d	1d	1a, 1d, 1g	5
P17	B18	B18	B18	B18	o	REC	1e	1e	1e	1e	1c	4
P18	B9	B9	B9	B9	B9	PM (UP)	1c	1c	1c	1c	1b	3
P19	B19 (T-BASS)	B19 (BBE)	(ROCK)	(POP)	(CLASSIC)	AM (UP)	1g	1g	1g	1g	m	2
P20	B20	B20	(DISCO)	(LIVE)	(RECORD)	—	1f	1f	1f	1f	A1	1
P21	B21	B21	—	—	(CLASSIC)	/	1b	1b	1b	1b	EDIT	
P22	B22	B22	—	—	(HALL)	⌚	1a	1a	1a	1a	PRGM	RANDOM
ST1	S1 T-BASS	S1	S1 ROCK	S1 POP	S1	—	—	—	—	—	—	S2
ST2	—	BBE	—	—	—	—	—	—	—	—	—	—
ST3	—	—	DISCO	LIVE	HALL	—	—	—	—	—	—	—
ST4	—	—	—	—	b #	—	—	—	—	—	—	—

BLOCK DIAGRAM - 1 (MAIN)

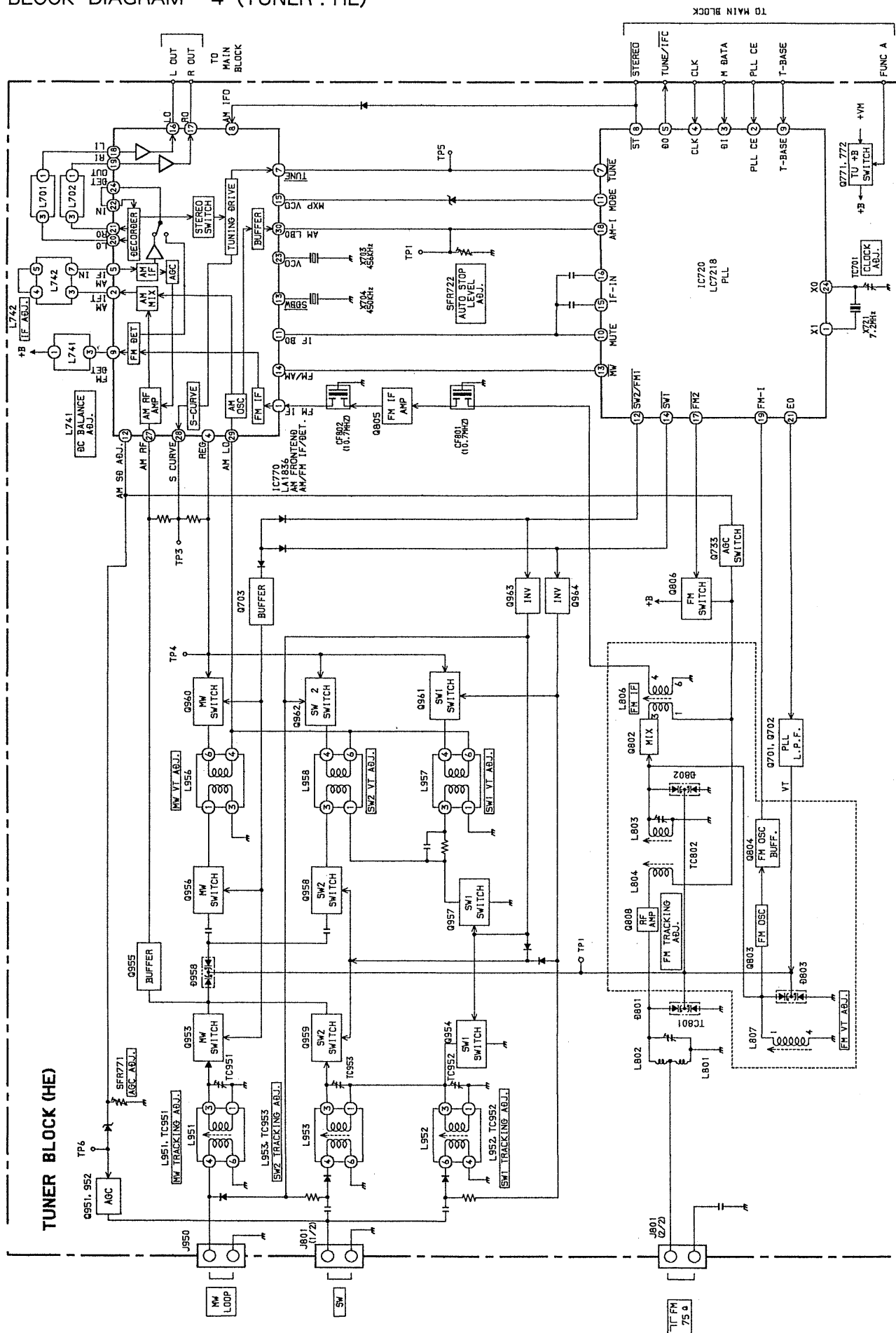


[illegible]

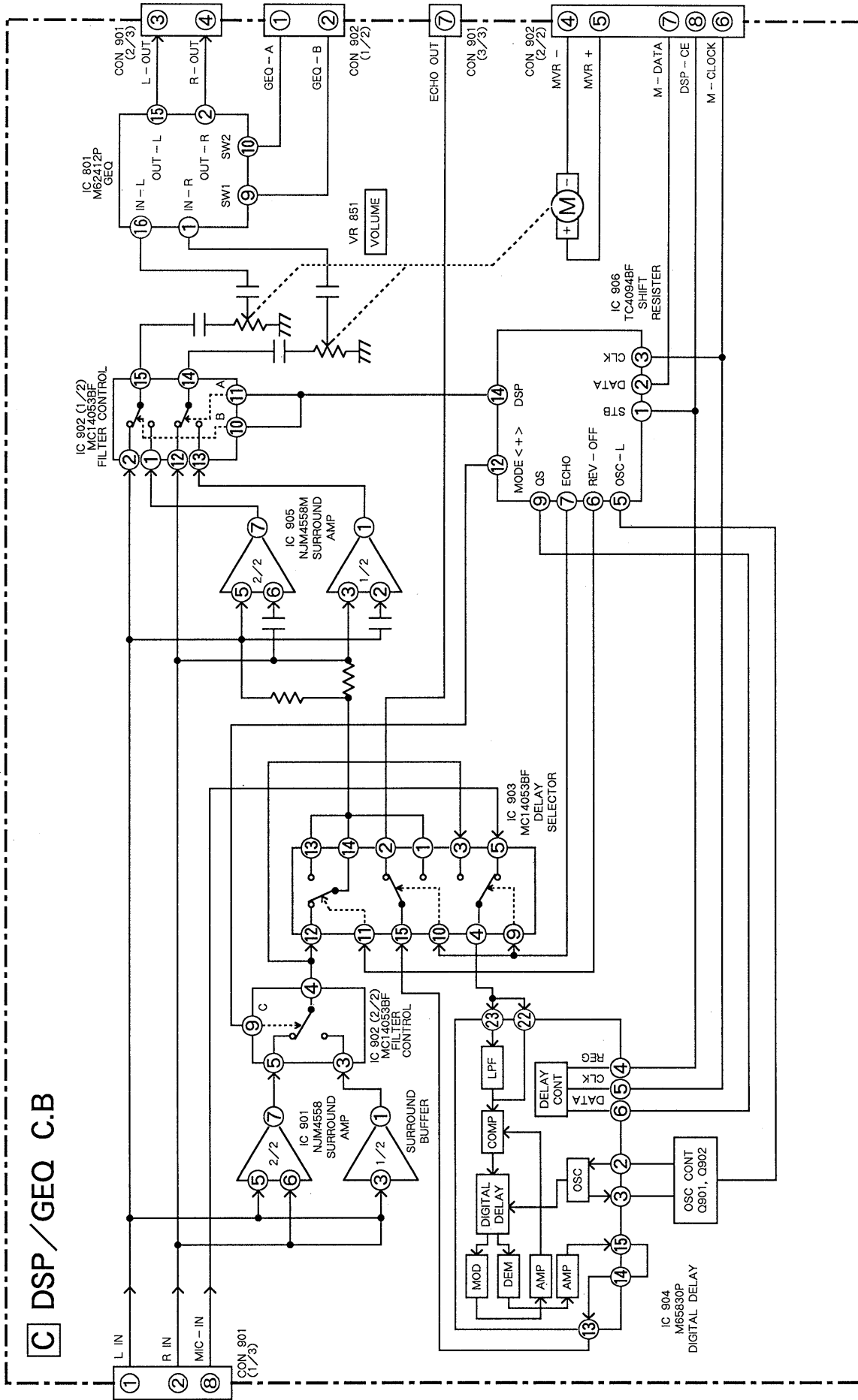
BLOCK DIAGRAM - 3 (TUNER : EE, K)



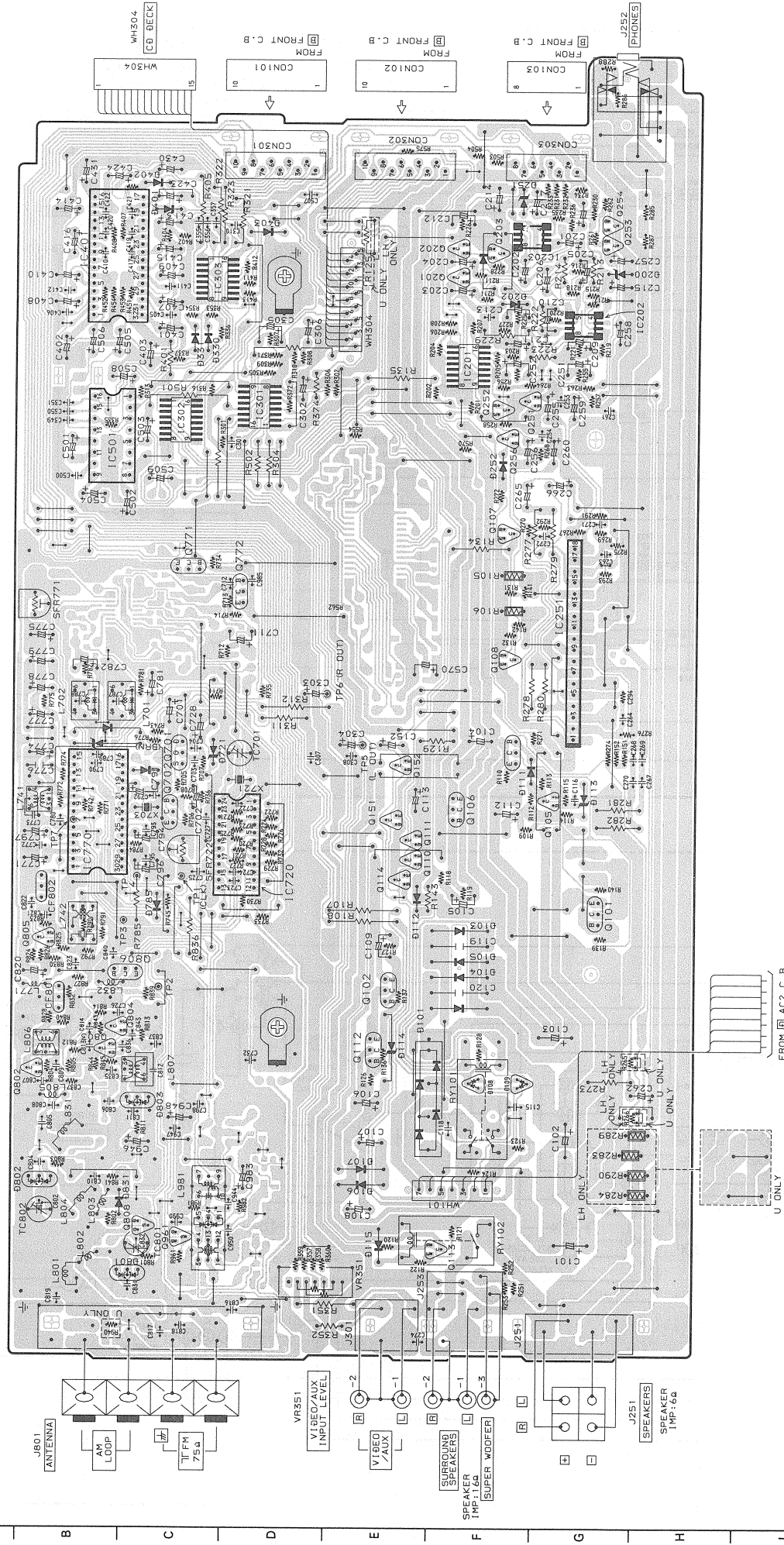
BLOCK DIAGRAM - 4 (TUNER : HE)



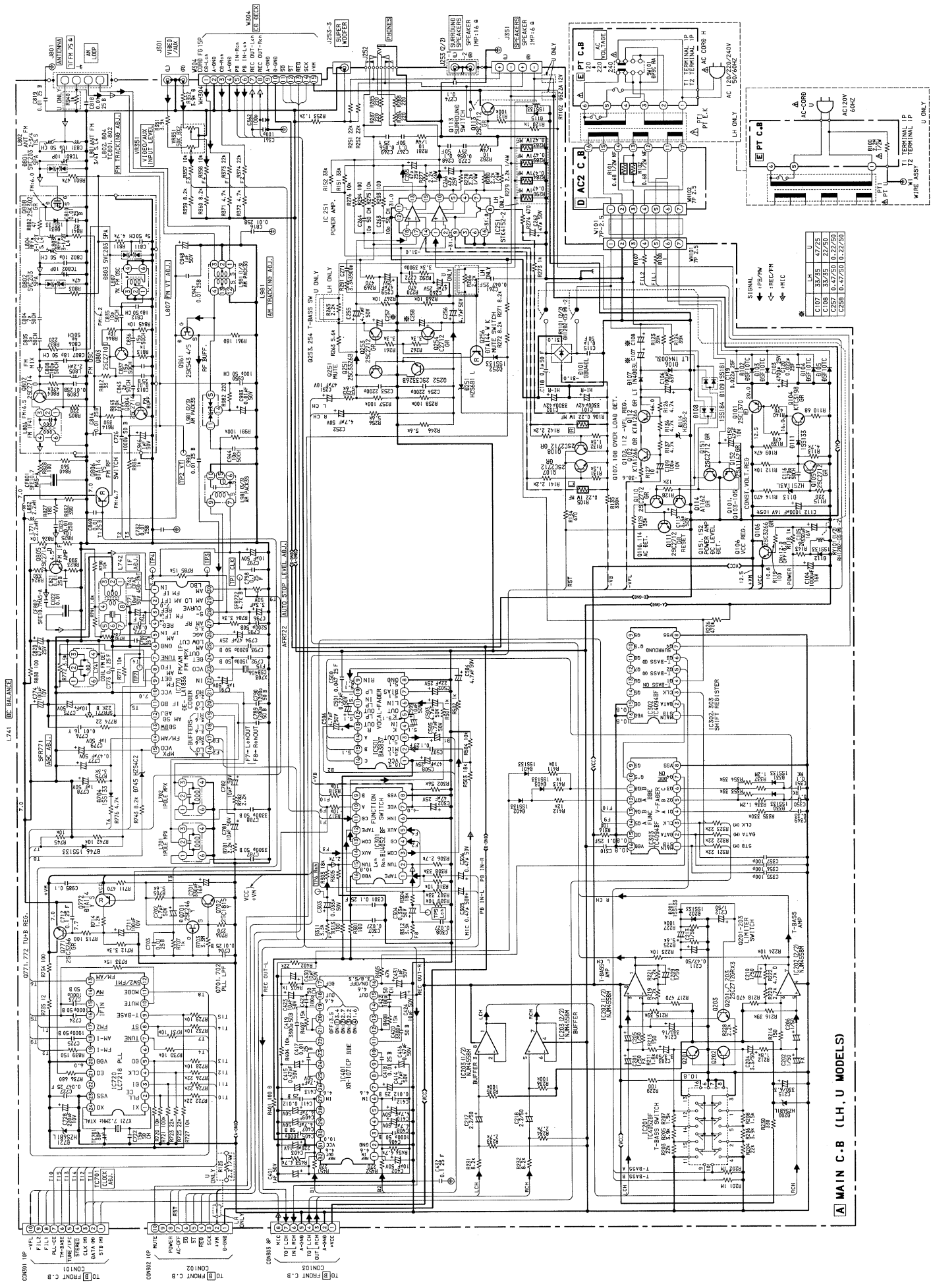
BLOCK DIAGRAM – 5 (DSP)

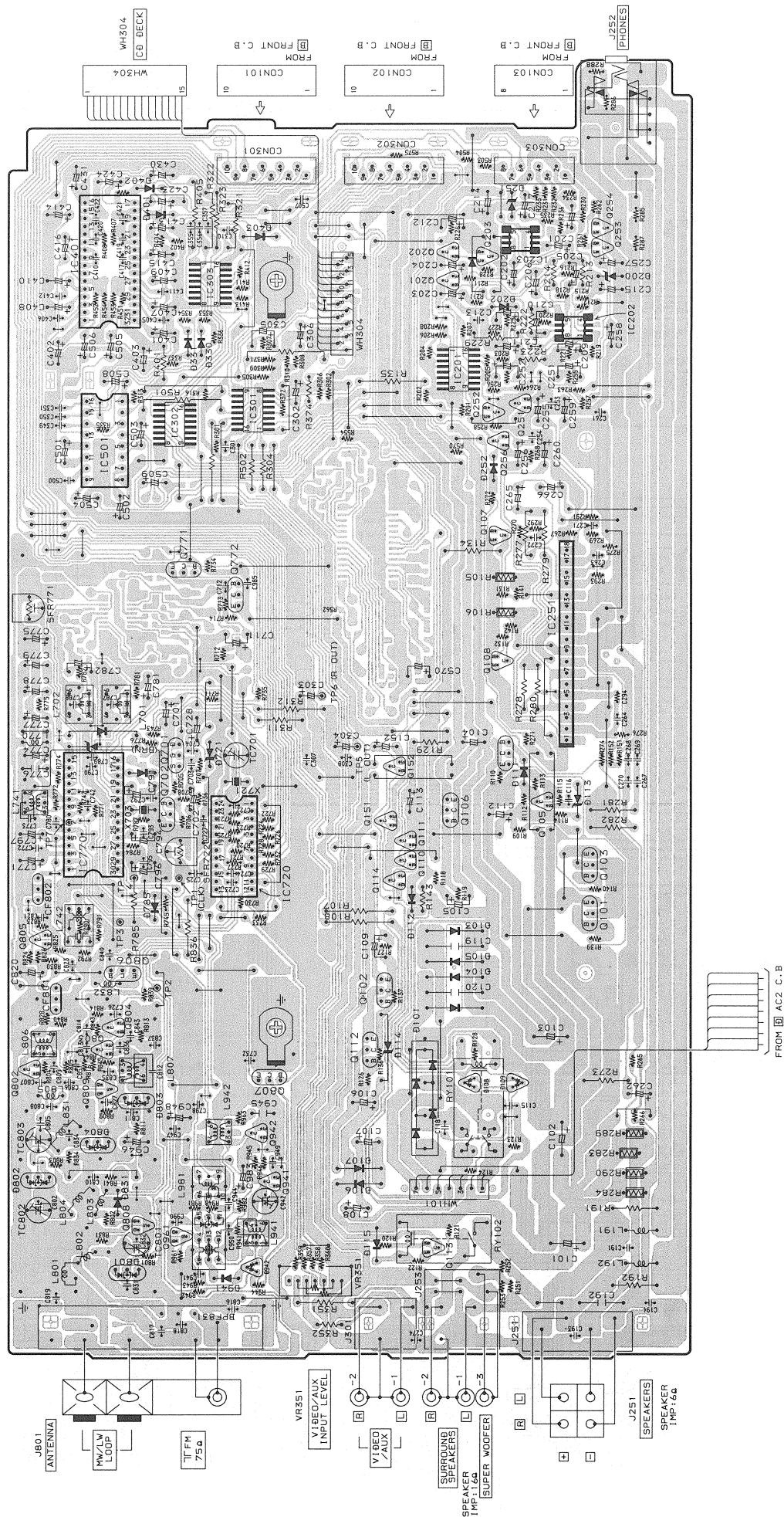


A MAIN C.B

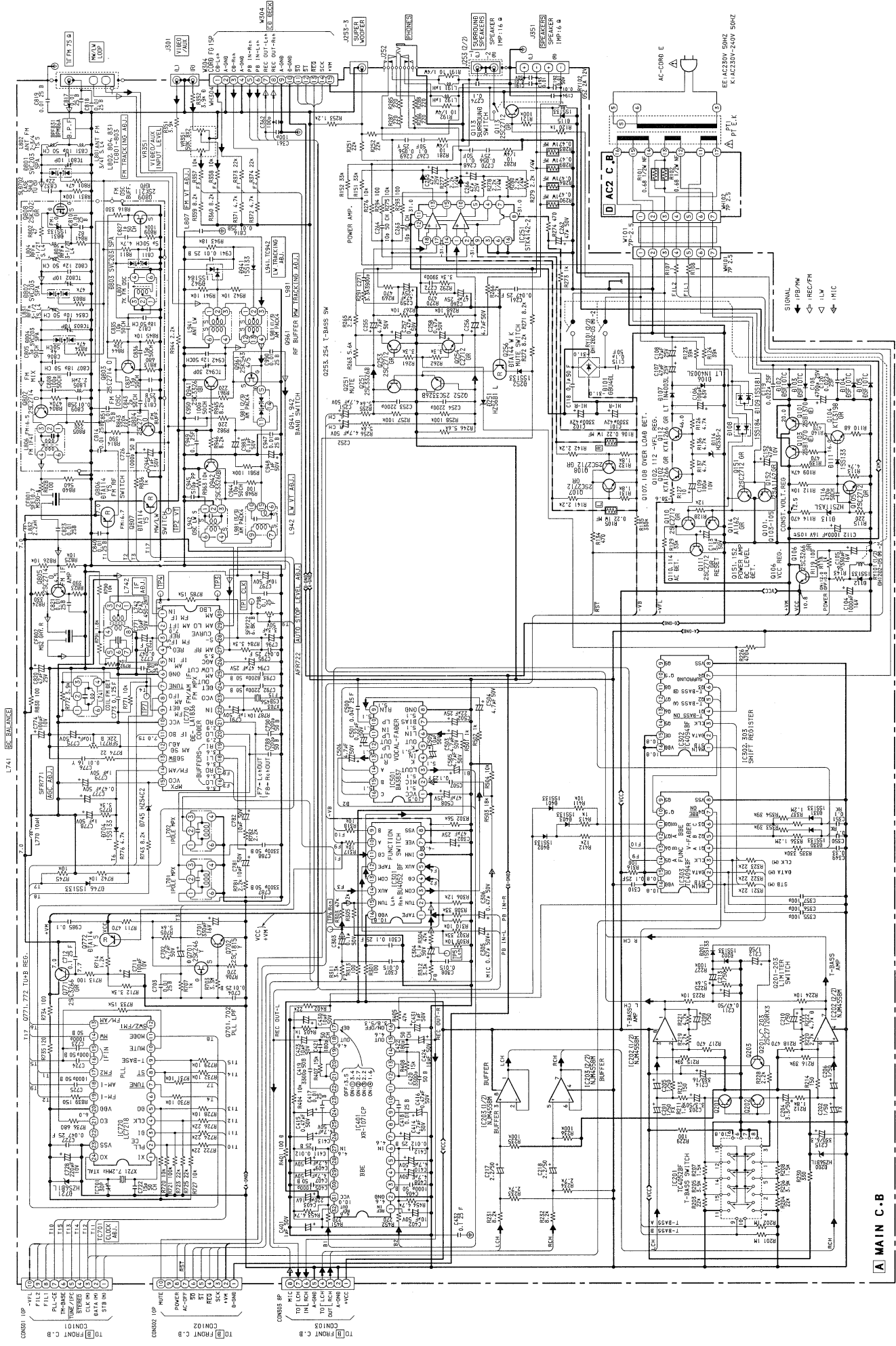


SCHEMATIC DIAGRAM - 1 (MAIN : LH, U)

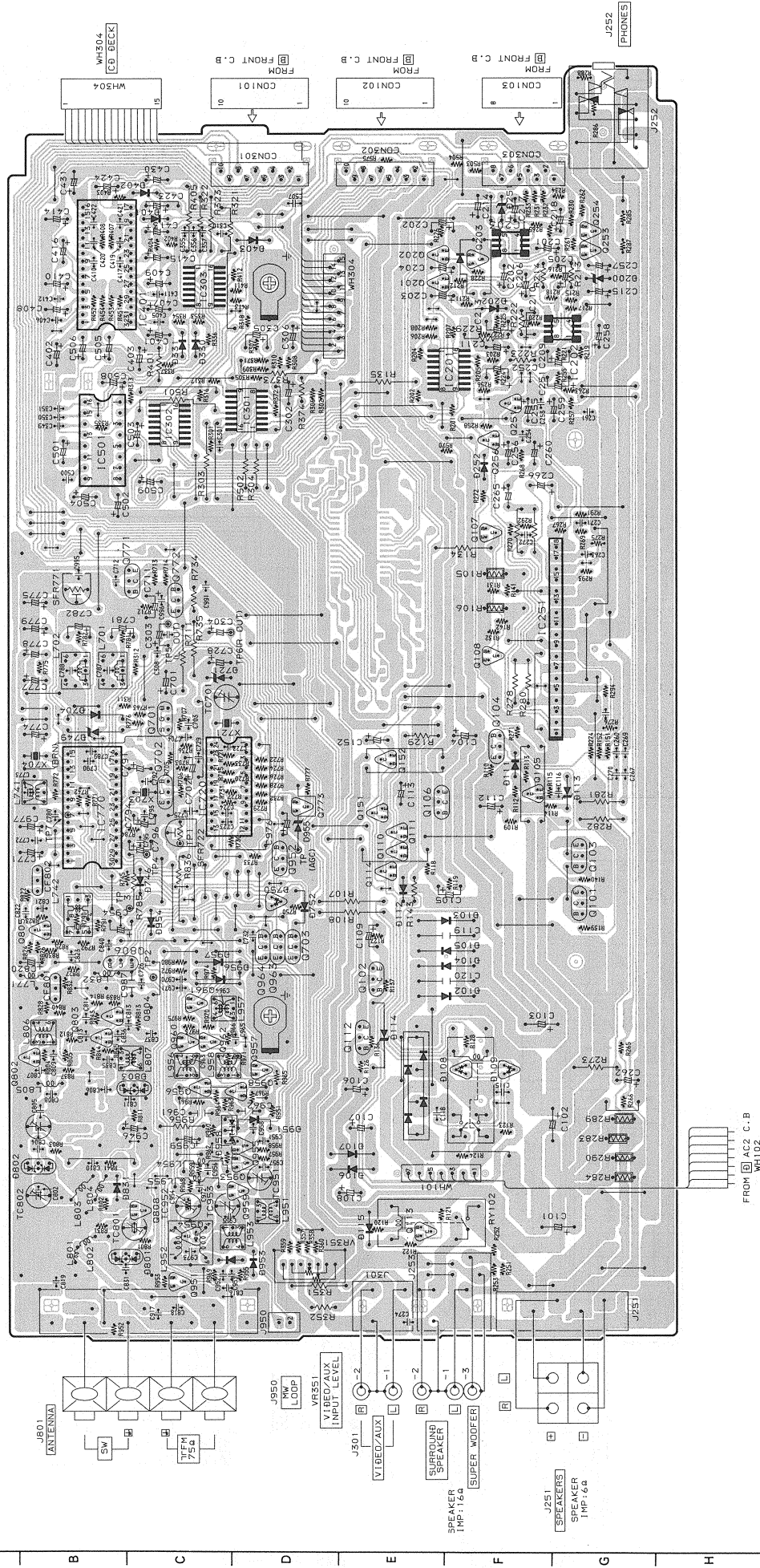




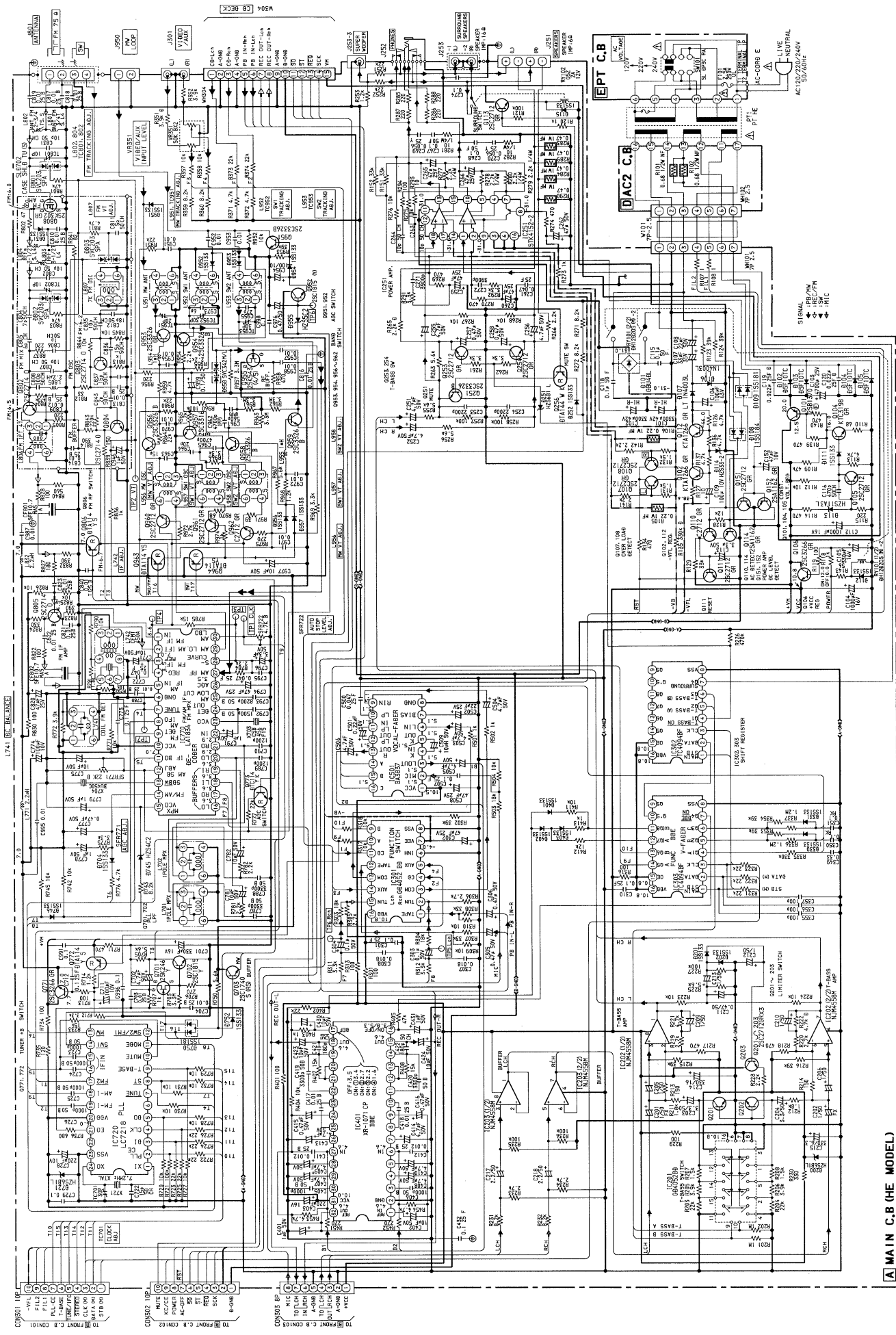
SCHEMATIC DIAGRAM - 2 (MAIN : EE, K)



A MAIN C.B

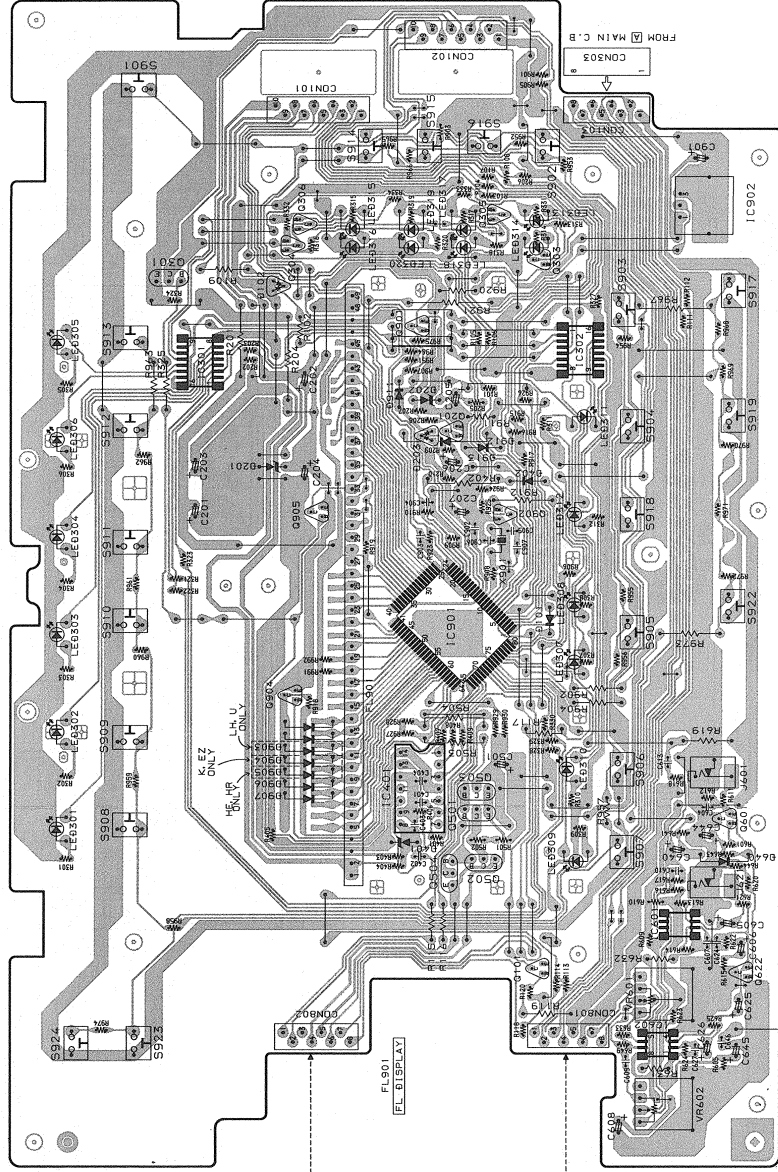


SCHEMATIC DIAGRAM – 3 (MAIN : HE)

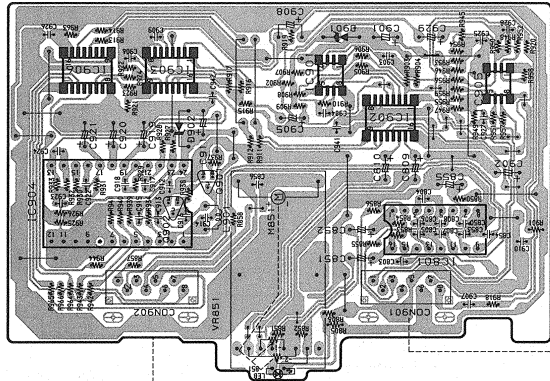


A MAIN C.B (HE MODEL)

B FRONT C.B.

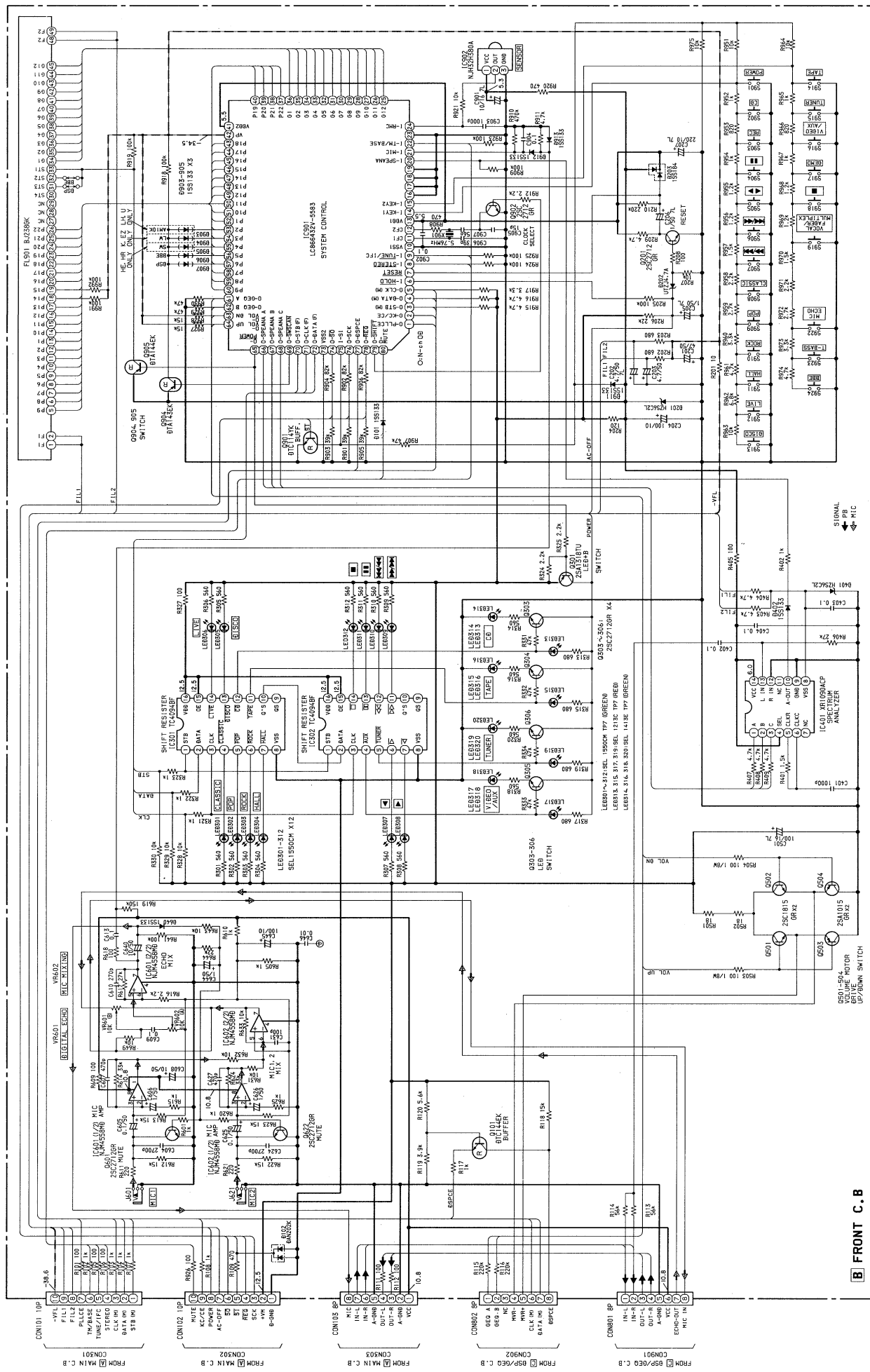


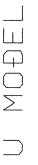
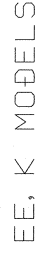
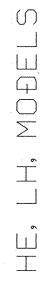
C DSP/GEQ C.B.



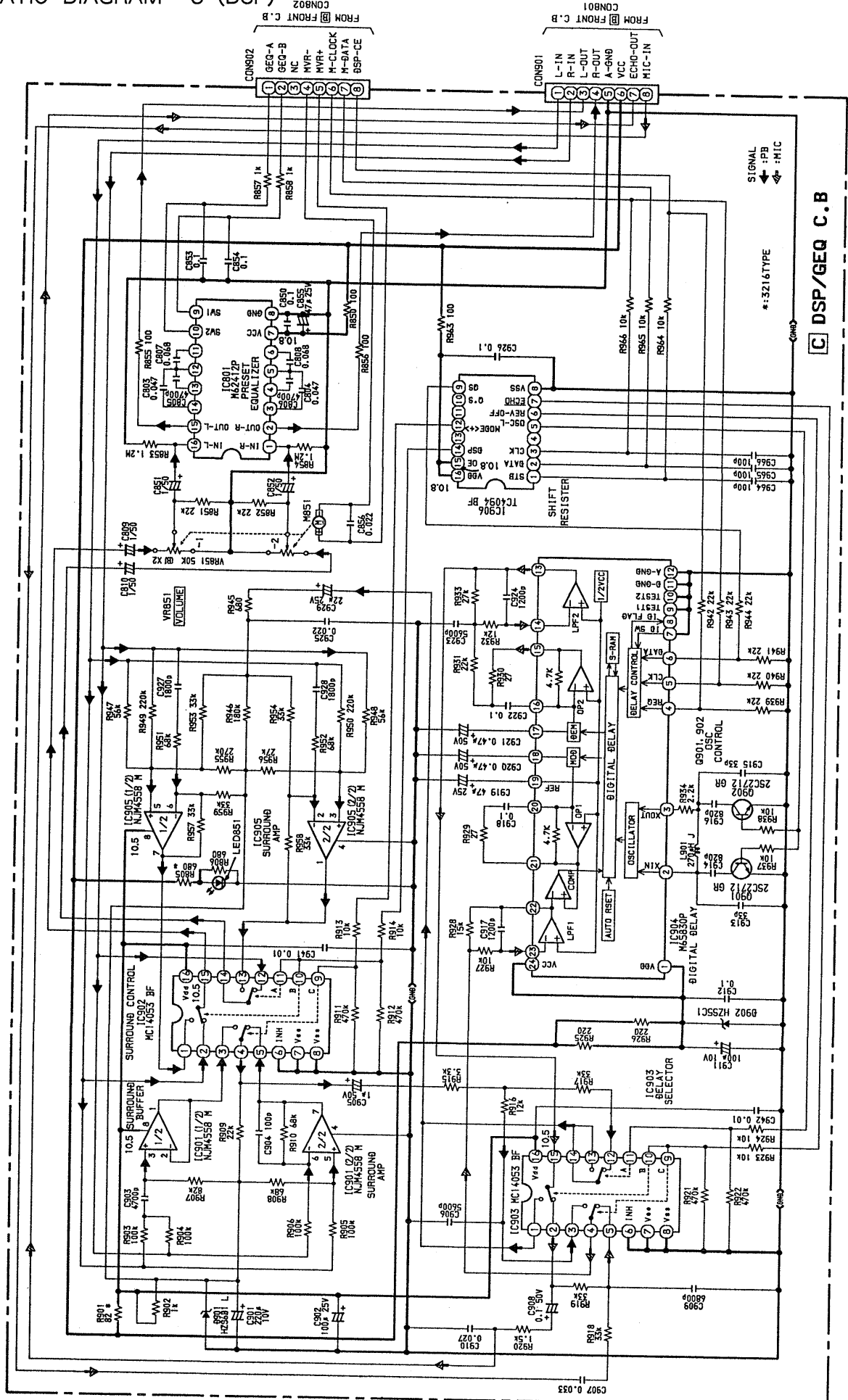
- VR402 MIC MIXING
- VR401 DIGITAL ECHO
- J421 MIC2
- J401 MIC1
- LED309 UP
- LED310 DOWN
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SCHEMATIC DIAGRAM – 4 (FRONT)





SCHEMATIC DIAGRAM - 5 (DSP)



IC DESCRIPTION

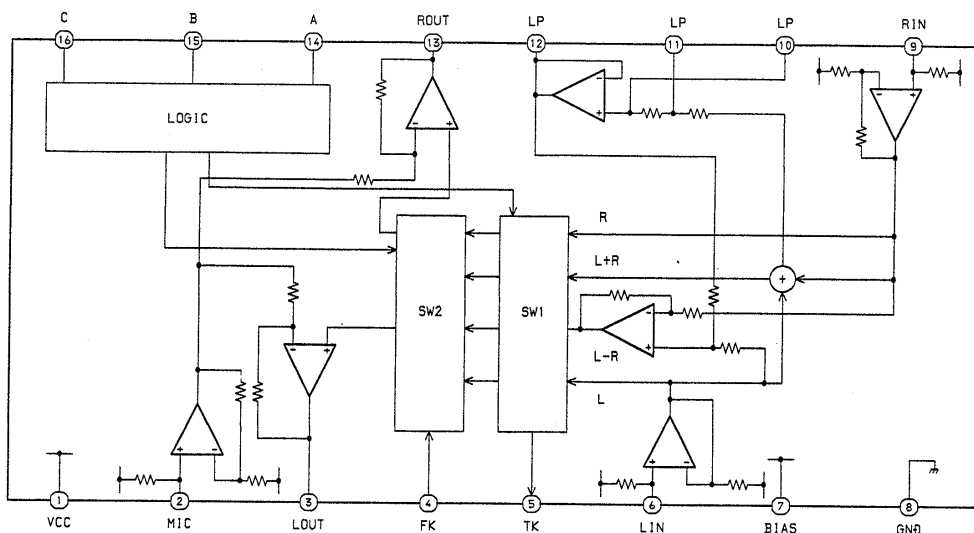
IC,LC866432V – 5583

Pin No.	Pin Name	I/O	Description
1	O-PLL CE	O	PLL IC chip enable.
2	O-KC/CE	O	Key control IC (M65840) data latched strobe output.
3	O-M/STB	O	Main shift register (IC302, 303) data latch strobe output.
4	O-M/DATA	O	Main shift register (IC302, 303), PLL/key control/DSP related data output.
5	O-M/CLK	O	Main shift register (IC302, 303), PLL/key control/DSP related clock output.
6	I-HOLD	I	Power failure detected input. L to stop clock and maintain memory.
7	RESET	I	Reset input.
8	I-STEREO	I	Tuner stereo detected input.
9	I-TUNE/IFC	I	Tuner SD detected input. IF count serial data input.
10	VSS1	—	GND.
11	CF1	I	Ceramic oscillator input.
12	CF2	O	Output to connect ceramic oscillator.
13	VDD1	—	Power supply input. (+5.6V)
14, 15	I-KEY1, 2	I	Key input. (A/D)
16~19	—	—	Connected to GND.
20	I-SPEANA	I	A/D input for spectrum analyzer display.
21	I-MIC	I	Microphone input for auto VF display.
22	I-TM/BASE	I	Reference clock input for timer watch.
23	—	—	Connected to GND.
24	I-RMC	I	System remote control signal input.
25~36	G12~G1	O	FL grid output G12~G1.
37~40	P22~P19	O	FL segment output P22~P19.
41	VDD2	—	Power supply input.
42	-VP	—	Power supply input (-34.5V) for FL display.
43	P18	I/O	FL segment output P18.
44	P17	I/O	FL segment output P17.
45	P16	I/O	FL segment output P16.
46	P15	I/O	FL segment output P15.
47	P14	I/O	FL segment output P14.
48	P13	I/O	FL segment output P13.
49	P12	I/O	FL segment output P12.
50	P11	I/O	FL segment output P11.
51	P10	O	FL segment output P10.
52	P1	O	FL segment output P1.
53	P2	O	FL segment output P2.
54	P3	O	FL segment output P3.
55	P4/SW	I/O	FL segment output P4, SW mode data input to diode.
56	P5/BBE	I/O	FL segment output P5, BBE mode data input to diode.
57	P6/DSP	I/O	FL segment output P6, DSP data input to diode.

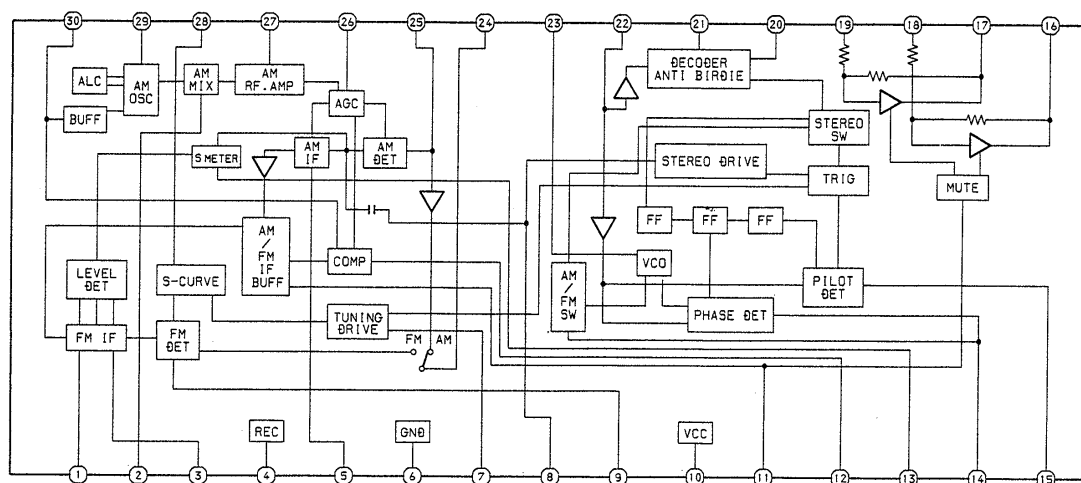
Pin No.	Pin Name	I/O	Description				
58	P7/KEYCON	I/O	FL segment output P7, key control data input to diode.				
59	P8/CDG	I/O	FL segment output P8, CDG data input to diode.				
60	P9	O	FL segment output P9.				
61	O-GEQ A	O	MODE	EQ OFF	ROCK	POP	CLASSIC
62	O-GEQ B	O	GEQ A	0	1	1	0
			GEQ B	0	0	1	1
63	O-VOL DOWN	O	Motor speed down output. "H" to brake.				
64	O-VOL UP	O	Motor speed up output. "H" to accelerate.				
65	O-POWER	O	System power supply ON/OFF output.				
66	O-SPEANA A	O	Spectrum analyzer band switch output (A).				
67	O-SPEANA B	O	Spectrum analyzer band switch output (B).				
68	O-SPEANA C	O	Spectrum analyzer band switch output (C).				
69	O-SWSCAN	O	Segment input acknowledge output.				
70	O-STB (F)	O	Front shift register (IC301, 302), data latch strobe output.				
71	O-CLK (F)	O	Front shift register (IC301, 302), data transfer clock output.				
72	O-DATA (F)	O	Front shift register (IC301, 302), data output.				
73	VSS2	—	GND.				
74	O-SO	O	FD control data output.				
75	I-SI	I	FD control data input.				
76	O-SCK	O	FD control data transfer clock output.				
77	O-DSPCE	O	DSP related data latch strobe output.				
78	O-REQ	O	FD control data latch output.				
79	O-SHIFT	O	Micon clock shift output during tuner mode.				
80	O-MUTE	O	System mute ON/OFF output.				

IC BLOCK DIAGRAM

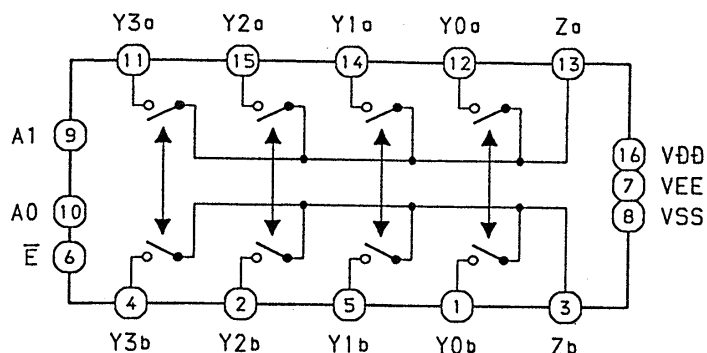
IC,BA3837



IC,LA1836



IC,GD4052



TRUTH TABLE

INPUTS			CHANNELS			
E	A1	A0	Y0-Z	Y1-Z	Y2-Z	Y3-Z
L	L	L	ON	OFF	OFF	OFF
L	L	H	OFF	ON	OFF	OFF
L	H	L	OFF	OFF	ON	OFF
L	H	H	OFF	OFF	OFF	ON
H	X	X	OFF	OFF	OFF	OFF

PIN NAMES

Y0a - Y3a Independent Inputs/Outputs

Y0b - Y3b Independent Inputs/Outputs

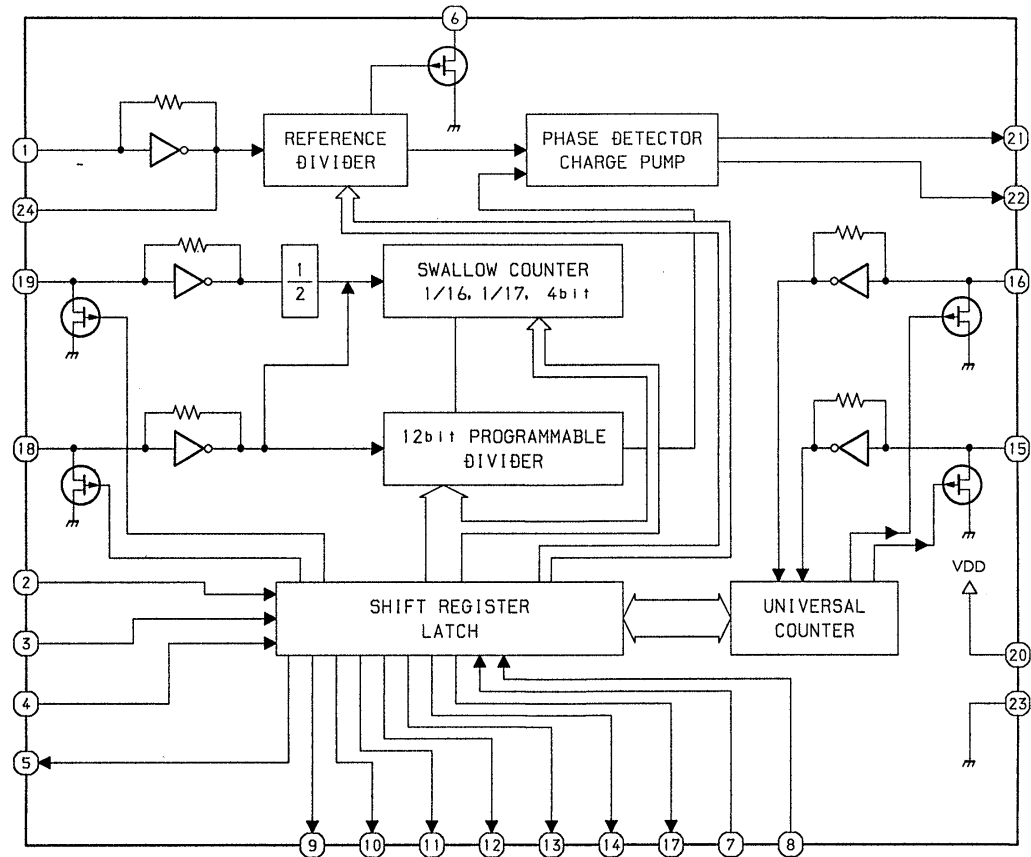
A1, A1 Address Inputs

E Enable Input (Active LOW)

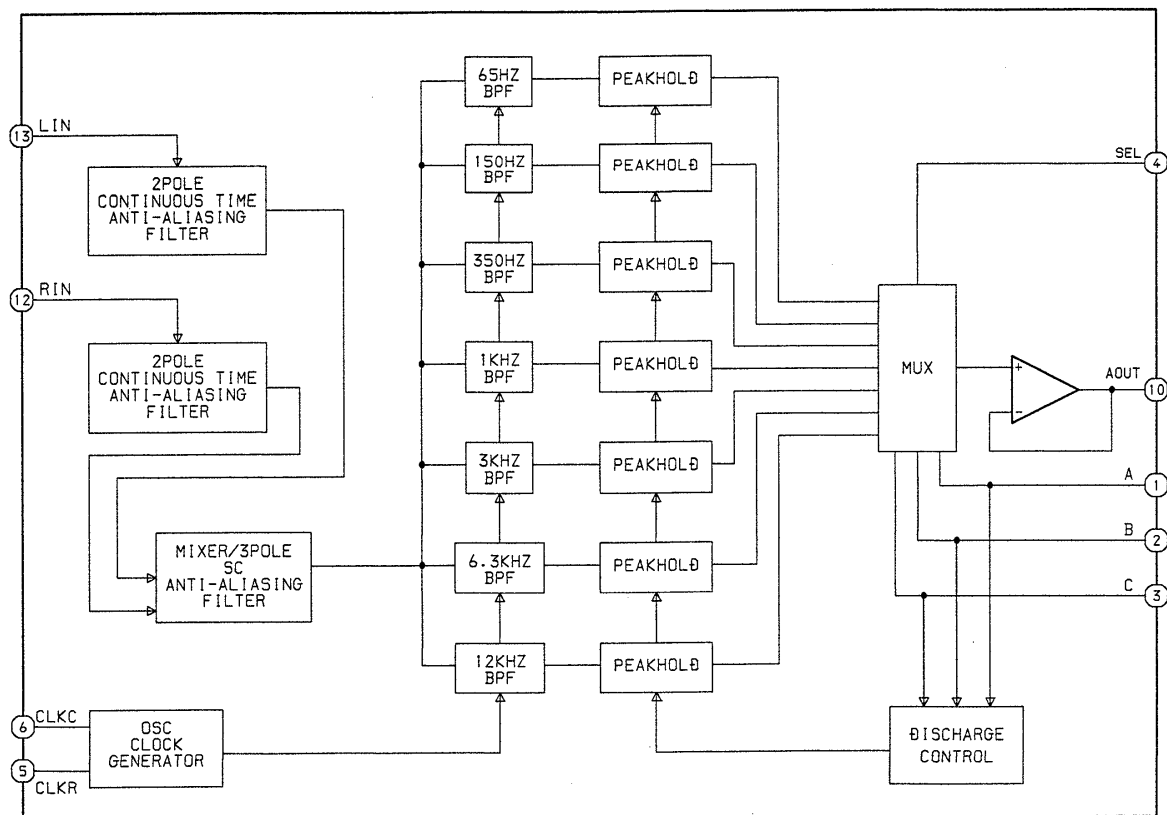
Za, Zb Common Input/Output

L:LOW Level, H:HIGH Level, X:Don't care

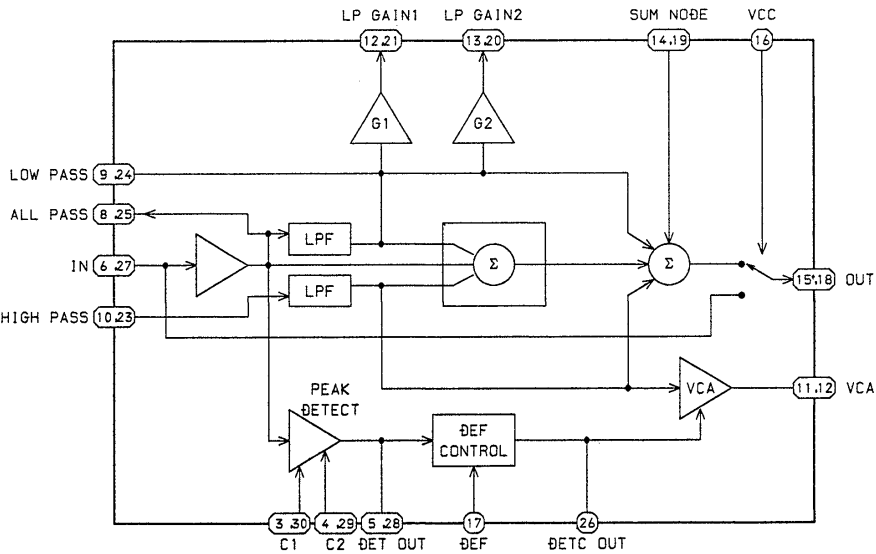
IC,LC7218



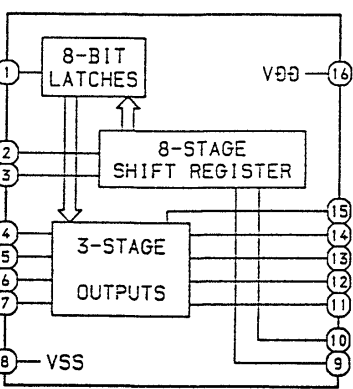
IC,XR1090



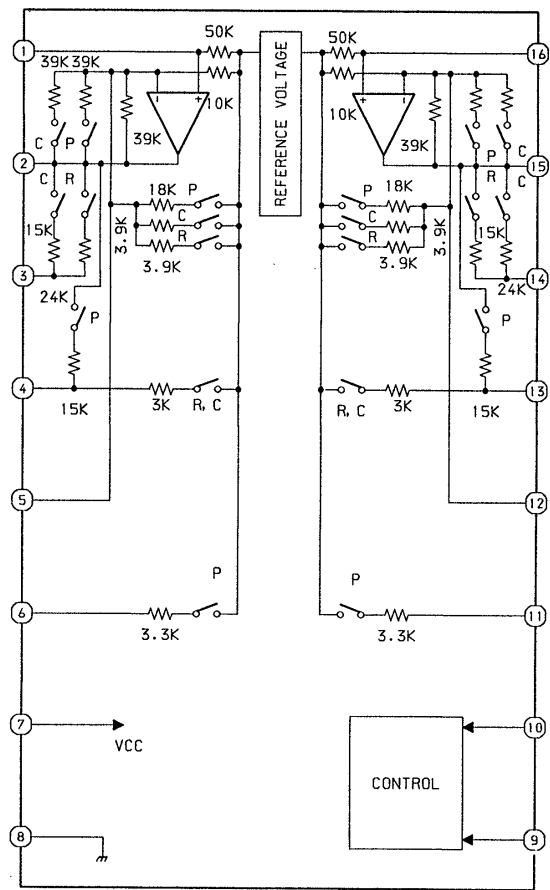
IC,XR1071CP



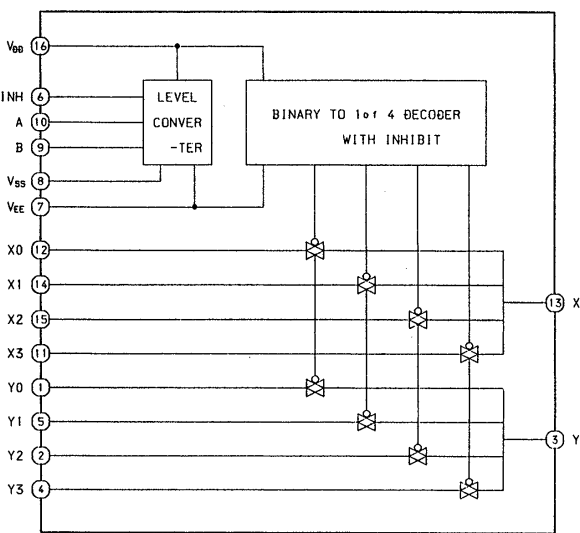
IC,TC4094



IC,M62412P



IC,BU4052BF

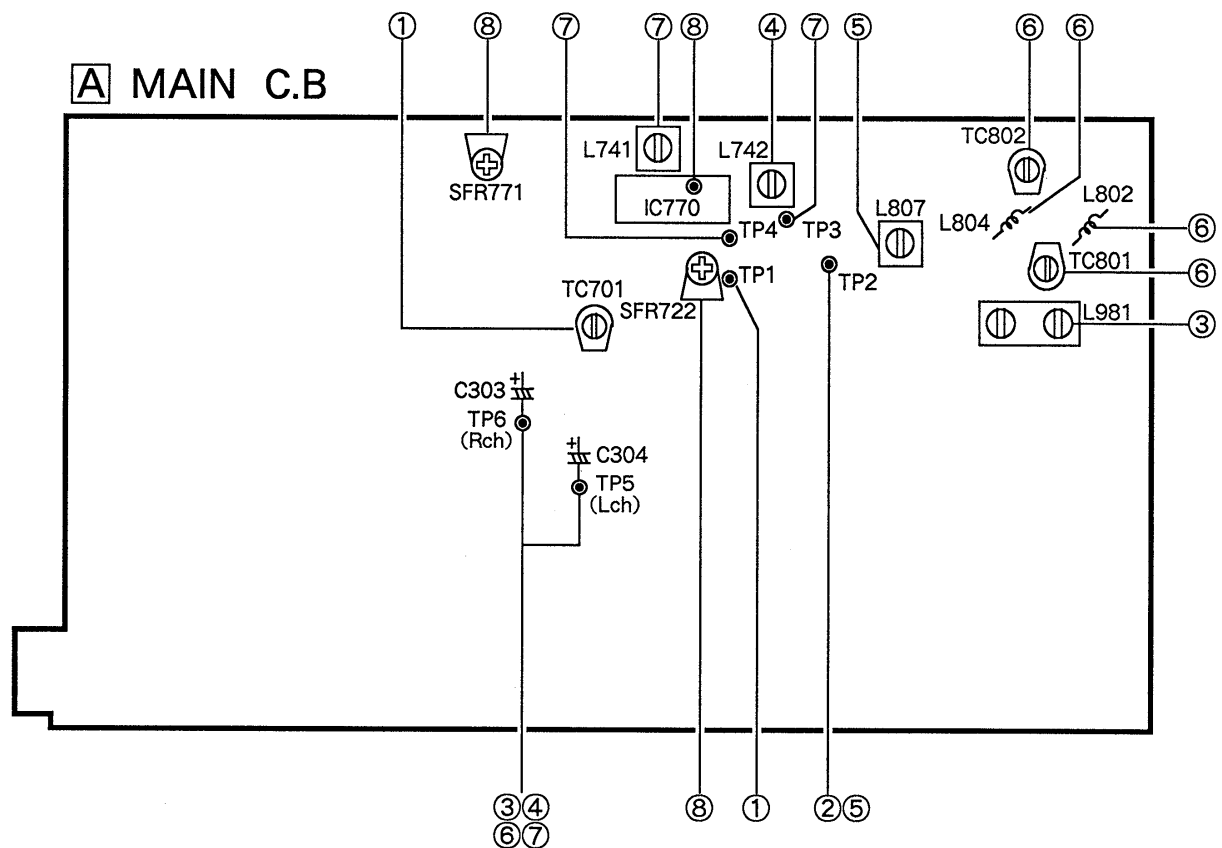


TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0, Y0
L	H	L	X1, Y1
L	L	H	X2, Y2
L	H	H	X3, Y3
H	X	X	NONE

TRUTH TABLE X=Don't Care

ELECTRICAL ADJUSTMENT (TUNER : LH, U)



TUNER SECTION

1. Clock Frequency Adjustment

Settings : • Test point : TP1 (CLK IC770 pin30)
• Adjustment location : TC701

Method : Set to AM 1710kHz and adjust TC701 so that the test point becomes $2160\text{kHz} \pm 0.01\text{kHz}$.
2. AM VT Check

Settings : • Test point : TP2 (VT)

Method : Set to AM 1710kHz and check that the test point is $6.5 \pm 1.0\text{V}$.
3. AM Tracking Adjustment

Settings : • Test point : TP5, TP6
• Adjustment location : L981

Method : Set to AM 1000kHz and adjust L981 that the test point becomes maximum.
4. AM IF Adjustment

Settings : • Test point : TP5, TP6
L742 450kHz
5. FM VT Adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L807

Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes $1.7\text{V} \pm 0.05\text{V}$.
6. FM Tracking Adjustment

Settings : • Test point : TP5, TP6
TC801, TC802 108MHz
L802, L804 87.5MHz
7. DC Balance/MONO Distortion Adjustment

Settings : • Test point : TP3, TP4 (DC balance)
TP5, TP6 (Distortion)
• Adjustment location : L741
• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.04\text{V}$.
Next check that the distortion is less than 1.3%.

8. Auto stop Level Adjustment

FM

Settings : • Test point : TP7

• Adjustment location : SFR722

• Input level : 18dB

Method : Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

AM

Settings : • Test point : TP7

• Adjustment location : SFR771

• Input level : 55dB

Method : Set to AM 1000kHz and adjust voltage low (about 0.01V) by SFR771. After that voltage high (about 7.0V) out by 2dB down.

PRACTICAL SERVICE FIGURE

TUNER SECTION

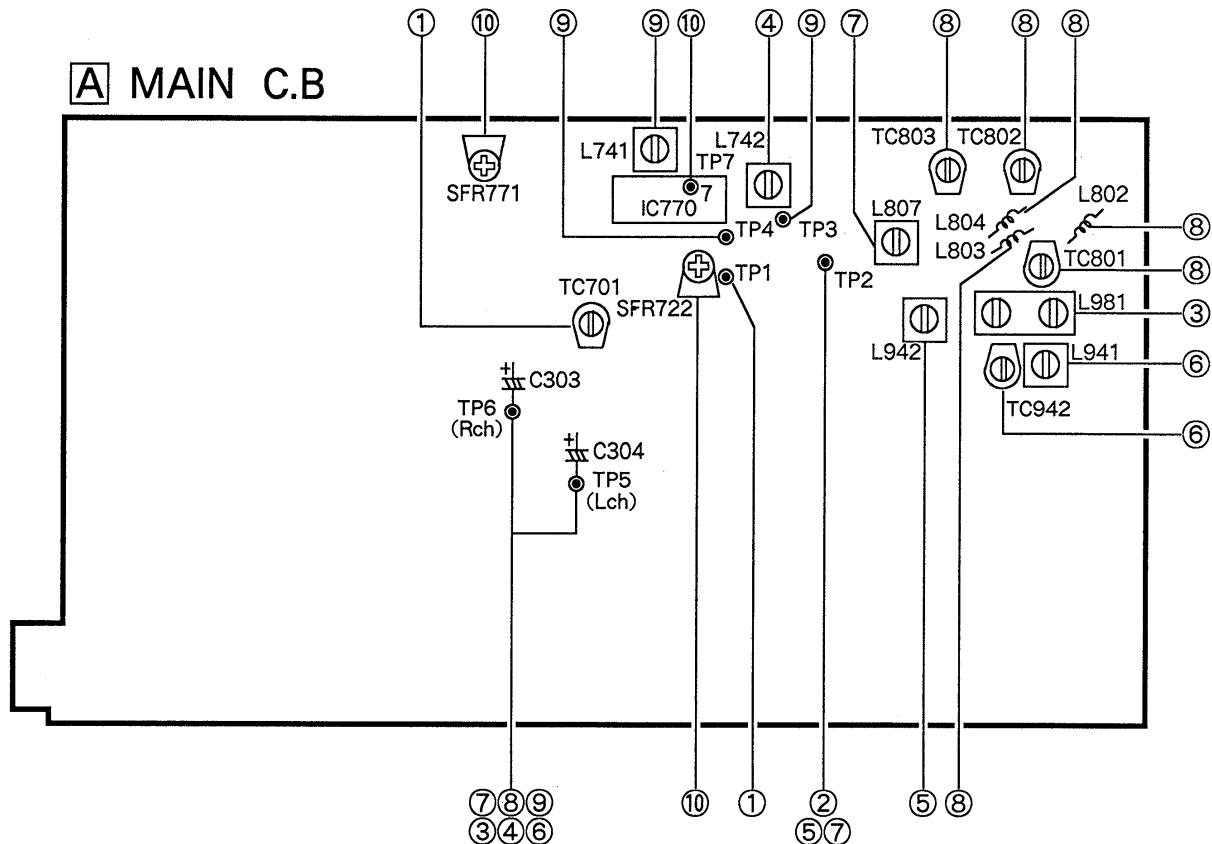
< FM SECTION >

IHF Sensitivity : 4dB $\pm$ 6dB (87.5MHz)
(THD 3%) 2dB $\pm$ 6dB (98.0MHz)
2dB $\pm$ 6dB (108.0MHz)
S/N 50dB Quieting sensitivity :
30dB $\pm$ 5dB
(87.5/98.0/108.0MHz)
Signal to noise ratio : More than 64dB (98.0MHz)
Distortion : Less than 1.2 % (98.0MHz)
Stereo separation : More than 25dB (98.0MHz)
Intermediate frequency : 10.7MHz

< AM SECTION >

Sensitivity : 54dB $\pm$ 8dB (600kHz)
(S/N 20dB) 53dB $\pm$ 6dB (1000kHz)
53dB $\pm$ 6dB (1400kHz)
Distortion : Less than 1.5 % (1000kHz)
Stereo separation : More than 12dB (1000kHz)
Intermediate frequency : 450kHz

ELECTRICAL ADJUSTMENT (TUNER : EE, K)



TUNER SECTION

1. Clock Frequency Adjustment

Settings : • Test point : TP1 (CLK IC770 pin30)
• Adjustment location : TC701

Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz $\pm$ 0.01kHz.

2. MW VT Check

Settings : • Test point : TP2 (VT)

Method : Set to MW 1602kHz and check that the test point is 6.3 $\pm$ 1.0V.

3. MW Tracking Adjustment

Settings : • Test point : TP5, TP6

• Adjustment location : L981

Method : Set to MW 999kHz and adjust L981 that the test point becomes maximum.

4. MW IF Adjustment

Settings : • Test point : TP5, TP6

L742 450kHz

5. LW VT Adjustment

Settings : • Test point : TP2 (VT)

• Adjustment location : L942

Method : Set to LW 144kHz adjust L942 so that the test point becomes 1.50V $\pm$ 0.05V.

6. LW Tracking Adjustment

Settings : • Test point : TP5, TP6

• Adjustment location :

L941 144kHz

TC942 290kHz

Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

7. FM VT Adjustment

Settings : • Test point : TP2 (VT)

• Adjustment location : L807

Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes 1.7V $\pm$ 0.05V.

8. FM Tracking Adjustment

Settings : • Test point : TP5,TP6

TC801,TC802,TC803..... 108MHz

L802,L804,L803 87.5MHz

9. DC Balance/MONO Distortion Adjustment

Settings : • Test point : TP3,TP4 (DC balance)

TP5,TP6 (Distortion)

• Adjustment location : L741

• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$.

Next check that the distortion is less than 1.3%.

10. Auto stop Level Adjustment

FM

Settings : • Test point : TP7

• Adjustment location : SFR722

• Input level : 18dB

Method : Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

AM

Settings : • Test point : TP7

• Adjustment location : SFR771

• Input level : 55dB

Method : Set to AM 999kHz and adjust voltage low (about 0.01V) by SFR771. After that voltage high (about 7.0V) out by 2dB down.

PRACTICAL SERVICE FIGURE

TUNER SECTION

< FM SECTION >

IHF Sensitivity : $7dB \pm 6dB$ (87.5MHz)

(THD 3%) $4dB \pm 6dB$ (98.0MHz)

$4dB \pm 6dB$ (108.0MHz)

S/N 50dB Quieting sensitivity :

$35dB \pm 5dB$

(87.5/98.0/108.0MHz)

Signal to noise ratio : More than 64dB (98.0MHz)

Distortion : Less than 1.2% (98.0MHz)

Stereo separation : More than 25dB (98.0MHz)

Intermediate frequency : 10.7MHz

< MW SECTION >

Sensitivity : $54dB \pm 8dB$ (603kHz)

(S/N 20dB) $53dB \pm 6dB$ (999kHz)

$53dB \pm 6dB$ (1404kHz)

Distortion : Less than 1.5% (999kHz)

Stereo separation : More than 12dB (999kHz)

Intermediate frequency : 450kHz

< LW SECTION >

Sensitivity : $66dB \pm 5dB$ (144kHz)

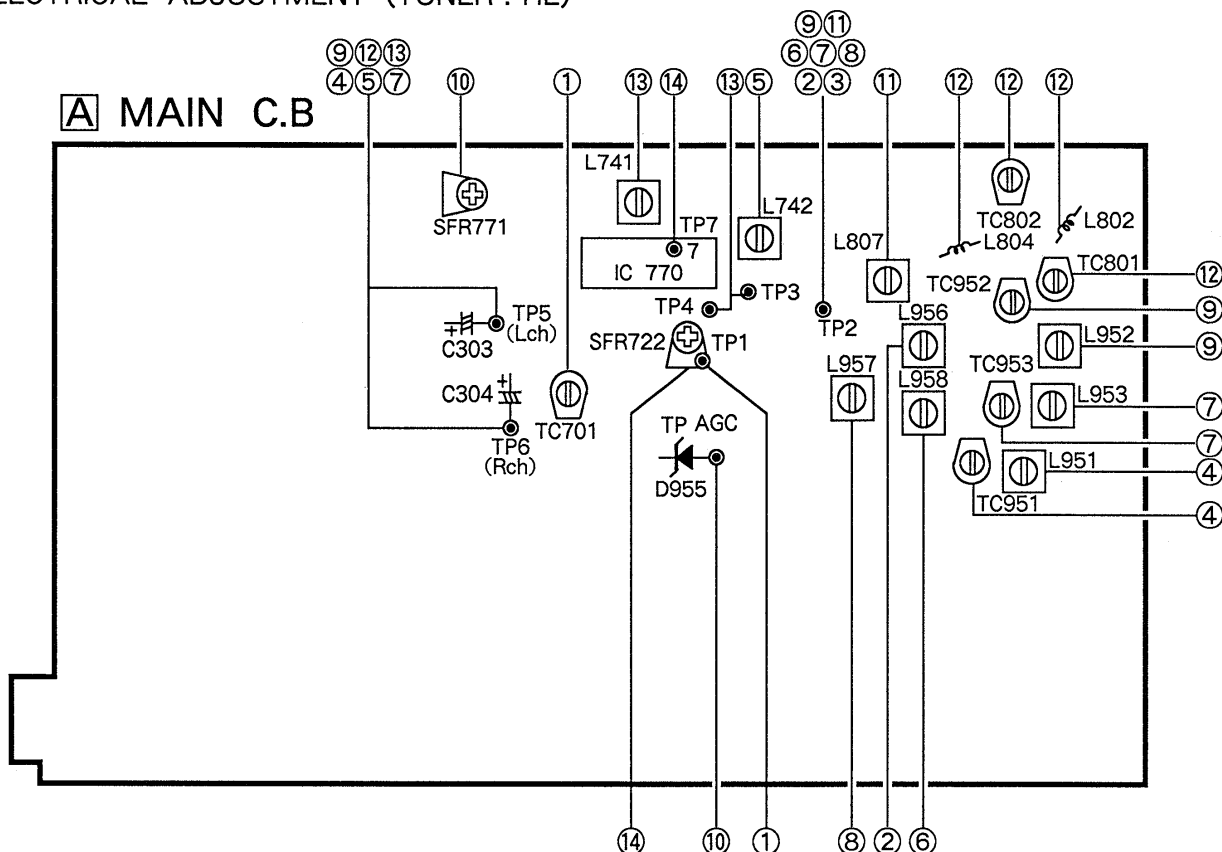
(S/N 20dB) $63dB \pm 5dB$ (198kHz)

$62dB \pm 5dB$ (290kHz)

Distortion : Less than 1.5% (198kHz)

Intermediate frequency : 450kHz

ELECTRICAL ADJUSTMENT (TUNER : HE)



TUNER SECTION

1. Clock Frequency Adjustment

Settings : • Test point : TP1 (CLK IC770 pin30)
• Adjustment location : TC701

Method : Set to MW 1710kHz and adjust TC701 so that the test point becomes $2160\text{kHz} \pm 0.01\text{kHz}$.

2. MW VT Adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L956

Method : Set to MW 1710kHz adjust L956 so that the test point becomes $8.5\text{V} \pm 0.05\text{V}$.

3. MW VT Check

Settings : • Test point : TP2 (VT)

Method : Set to MW 530kHz and check that the test point is more than 0.4V.

4. MW Tracking Adjustment

Settings : • Test point : TP5, TP6
• Adjustment location :

L951 600kHz
TC951 1400kHz

Method : Set up TC951 to center before adjustment. The level at 600kHz is adjusted to MAX by L951. Then the level at 1400kHz is done by TC951.

5. AM IF Adjustment

Settings : • Test point : TP5, TP6
L742 450kHz

6. SW - 2 VT Adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L958

Method : Set to SW - 2 21.85MHz adjust L958 so that the test point becomes $8.0\text{V} \pm 0.05\text{V}$.

7. SW - 2 Tracking Adjustment

Settings : • Test point : TP5, TP6
• Adjustment location :
L953 9.5MHz
TC953 21.85MHz

Method : Set up TC953 to center before adjustment. The level at 9.5MHz is adjusted to MAX by L953. Then the level at 21.85MHz is done by TC953.

8. SW - 1 VT adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L957

Method : Set to SW - 1 7.3MHz and adjust L957 so that the test point becomes $7.5\text{V} \pm 0.05\text{V}$.

9. SW - 1 Tracking Adjustment

Settings : • Test point : TP5,TP6

• Adjustment location :

L952 3.2MHz

TC952 7.3MHz

Method : Set up TC952 to center before adjustment.

The level at 3.2MHz is adjusted to MAX

by L952. Then the level at 7.3MHz is

done by TC952.

10. AGC Adjustment

Settings : • Test point : TP AGC

• Adjustment location : SFR771

• Input signal : 21.85MHz 60dB

Method : Set to SW - 2 21.85MHz adjust SFR771 so

that the test point becomes $1.6V \pm 0.02V$.

11. FM VT Adjustment

Settings : • Test point : TP2 (VT)

• Adjustment location : L807

Method : Set to FM 87.5MHz and adjust L807 so

that the test point becomes $1.7V \pm 0.05V$.

12. FM Tracking Adjustment

Settings : • Test point : TP5,TP6

TC801,TC802 108MHz

L802,L804 87.5MHz

13. DC Balance/MONO Distortion Adjustment

Settings : • Test point : TP3,TP4 (DC balance)

TP5,TP6 (Distortion)

• Adjustment location : L741

• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so

that the voltage between TP3 and TP4

becomes $0V \pm 0.04V$.

Next check that the distortion is less than

1.3%.

14. Auto stop Level Adjustment

Settings : • Test point : TP7

• Adjustment location : SFR722

• Input level : 18dB

Method : Set to FM 98.0MHz and adjust voltage low

(about 0.01V) by SFR722. After that

voltage high (about 7.0V) out by 2dB

down.

PRACTICAL SERVICE FIGURE

TUNER SECTION

< FM SECTION >

IHF Sensitivity : 4dB $\pm$ 6dB (87.5MHz)

(THD 3%) 2dB $\pm$ 6dB (98.0MHz)

2dB $\pm$ 6dB (108.0MHz)

S/N 50dB Quieting sensitivity :

30dB $\pm$ 5dB

(87.5/98.0/108.0MHz)

Signal to noise ratio : More than 64dB (98.0MHz)

Distortion : Less than 1.2% (98.0MHz)

Stereo separation : More than 25dB (98.0MHz)

Intermediate frequency : 10.7MHz

< MW SECTION >

Sensitivity : 54dB $\pm$ 8dB (603kHz)

(S/N 20dB) 53dB $\pm$ 6dB (999kHz)

53dB $\pm$ 6dB (1404kHz)

Distortion : Less than 1.5% (999kHz)

Stereo separation : More than 12dB (999kHz)

Intermediate frequency : 450kHz

< SW1 SECTION >

Sensitivity : 32dB $\pm$ 5dB (3.20MHz)

(S/N 20dB) 29dB $\pm$ 5dB (5.00MHz)

27dB $\pm$ 5dB (7.30MHz)

Distortion : Less than 1.5% (5.00MHz)

Intermediate frequency : 450kHz

< SW2 SECTION >

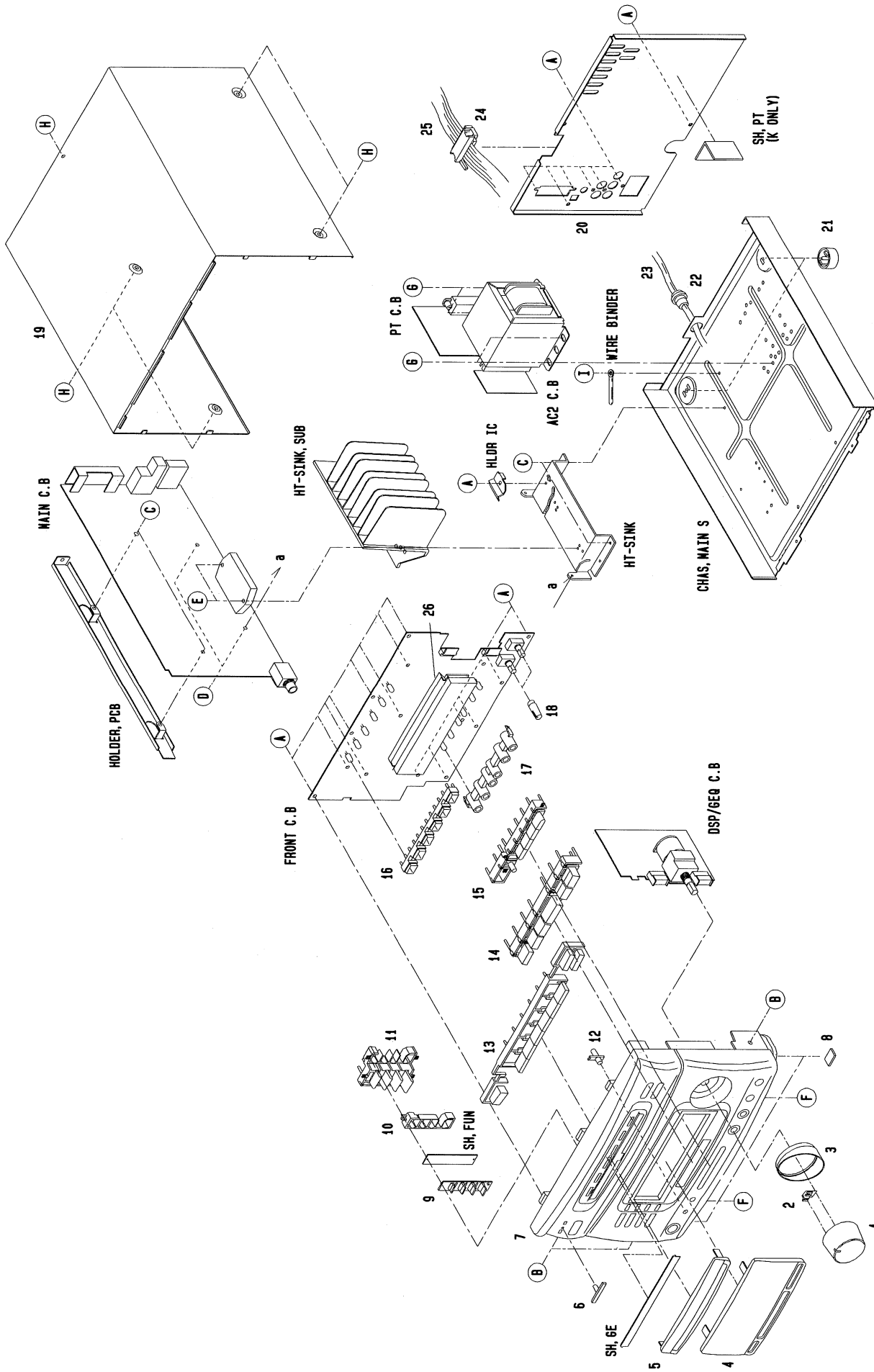
Sensitivity : 45dB $\pm$ 5dB (9.50MHz)

(S/N 20dB) 40dB $\pm$ 5dB (15.00MHz)

31dB $\pm$ 5dB (21.85MHz)

Distortion : Less than 1.5% (15.00MHz)

Intermediate frequency : 450kHz



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	83-NEK-053-019		KNOB, VOL	20	83-NTE-015-019		PANEL, REAR KBN<K>
2	83-NEK-080-019		IND, VOL	20	83-NTE-013-019		PANEL, REAR LHBN<LH>
3	83-NT4-011-019		RING, VOL	20	83-NTE-010-019		PANEL, REAR UBN<U>
4	83-NT4-009-019		WIND, AMP	21	87-085-213-019		FOOT, H12.5
5	83-NT4-008-019		WIND, GE	22	87-085-184-010		BUSHING, AC CORD D<LH>
6	82-NE8-032-019		BADGE AIWA 27.5	22	87-085-185-019		BUSHING, AC CORD E<HE, K, EE>
7	83-NTE-008-019		CAB, FR 14 EX<K, EE>	22	87-085-189-019		BUSHING, CORD U<U>
7	83-NTE-003-019		CAB, FR 14 H<HE>	△	23	87-050-034-019	AC CORD ASSY, E<HE, EE>
7	83-NTE-021-019		CAB, FR 14 LH<LH>	△	23	87-050-029-019	AC CORD ASSY, K 3P<K>
7	83-NTE-009-019		CAB, FR 14 U<U>	△	23	87-050-053-019	AC CORD ASSY, U-2<U>
8	80-VT1-202-019		FELT, 12.5-15.5-2	△	23	87-034-749-019	AC CORD, H W/PLUG<LH>
9	83-NT4-010-019		IND, FUN	24	89-VT5-202-019		BUSHING CORD
10	83-NT4-202-019		GUIDE, LED FUN	25	82-NT3-631-110		CORD FG15P
11	83-NT4-005-019		KEY, FUN	26	83-NF5-202-010		GUIDE, FL
12	83-NT4-014-019		LENS, SENSOR	A	87-067-703-019		BVT2+3-10 (W/O SLOT)
13	83-NT4-004-019		KEY, POWER	B	87-591-094-419		Q1T + 3 - 6 GOLD
14	83-NT4-006-019		KEY, OPE	C	87-067-688-019		BVTT +3-6
15	83-NTE-005-019		KEY, KARAOKE 14	D	87-067-633-019		BVT2+3-8 W/CONVEX
16	83-NT4-201-019		GUIDE, LED GE	E	87-067-698-019		BVT 2+3-18 (W/O SLOT)
17	83-NT4-203-019		GUIDE, LED OPE	F	87-067-673-019		BVTT +3-8 BLK
18	84-CF3-009-019		KNOB MIC	G	87-078-083-019		BVTT SEMS+4-8SW
19	83-NT4-003-019		CAB, STEEL<EXCEPT K>	H	87-067-641-019		UTT2+3-8 W/O SLOT BLK
19	83-NTE-022-010		CAB, STEEL K<K>	I	87-067-585-019		BVTT +4-6
20	83-NTE-018-019		PANEL, REAR EEBN<EE>				
20	83-NTE-011-019		PANEL, REAR HEJBN<HE>				

MODEL NO.

FD - N636

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

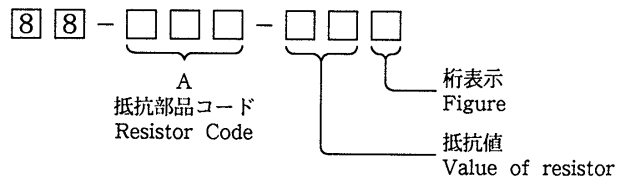
REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
IC				C312	87-010-177-089		C-CAP, S 820P-50 SL
	87-020-454-010	IC, DM6851		C313	87-010-401-089		CAP, E 1-50 SME
	87-020-758-019	IC, NJM2068SD		C314	87-010-401-089		CAP, E 1-50 SME
	87-001-607-089	IC, NJM4558M		C401	87-012-156-089		C-CAP, S 220P-50 CH
	87-001-874-019	IC, HA12134A		C402	87-012-156-089		C-CAP, S 220P-50 CH
	87-002-282-019	IC, BU4066B		C403	87-010-178-089		C-CAP, S 1000P-50 B
	83-NV4-610-010	IC, LC865008B-5582		C405	87-010-260-089		CAP, E 47-25 SME
TRANSISTOR				C406	87-010-197-089		C-CAP, S 0.01-25 B
	87-026-463-080	TR, 2SA933S(RS)		C407	87-010-183-089		C-CAP, S 2700P-50 B
	87-026-211-089	C-TR, DTA144EK T147		C408	87-010-183-089		C-CAP, S 2700P-50 B
	87-026-210-089	C-TR, DTC144EK T147		C409	87-010-183-089		C-CAP, S 2700P-50 B
	89-503-655-689	FET, 2SK365 GR, BL		C410	87-010-196-089		C-CAP, S 0.1-25 F
	89-327-125-089	C-TR, 2SC2712GR		C411	87-010-198-089		C-CAP, S 0.022-25 B
	89-111-625-089	C-TR, 2SA1162GR		C501	87-012-142-089		C-CAP, S 0.33-16 F
	89-333-317-089	TR, 2SC3331T		C502	87-012-142-089		C-CAP, S 0.33-16 F
	89-318-155-089	TR, 2SC1815GR		C503	87-010-178-089		C-CAP, S 1000P-50 B
	89-109-521-089	TR, 2SA952K		C504	87-010-178-089		C-CAP, S 1000P-50 B
	89-332-665-089	TR, 2SC3266GR		C505	87-012-155-089		C-CAP, S 180P-50 CH
	87-026-230-089	C-TR, DTA114YK		C506	87-012-155-089		C-CAP, S 180P-50 CH
	87-026-213-089	C-TR, DTC114YK		C507	87-010-401-089		CAP, E 1-50 SME
DIODE				C508	87-010-401-089		CAP, E 1-50 SME
	87-020-465-089	DIODE, 1SS133		C509	87-010-545-089		CAP, E 0.22-50 SME
	87-020-125-089	C-DIODE, 1SS181		C510	87-010-545-089		CAP, E 0.22-50 SME
	87-001-290-089	ZENER, HZS681L		C511	87-010-371-089		CAP, E 470-6.3
	87-017-150-089	ZENER, HZS6A3L		C512	87-010-197-089		C-CAP, S 0.01-25 B
MAIN C.B				C513	87-010-318-089		C-CAP, S 47P-50 CH
C101	87-012-156-089	C-CAP, S 220P-50 CH		C514	87-010-197-089		C-CAP, S 0.01-25 B
C102	87-012-156-089	C-CAP, S 220P-50 CH		C515	87-010-400-089		CAP, E 0.47-50 SME
C103	87-010-197-089	C-CAP, S 0.01-25 B		C516	87-010-405-089		CAP, E 10-50 SME
C104	87-010-197-089	C-CAP, S 0.01-25 B		C519	87-010-401-089		CAP, E 1-50 SME
C105	87-010-426-089	C-CAP, S 0.012-25 B		C520	87-010-401-089		CAP, E 1-50 SME
C106	87-010-426-089	C-CAP, S 0.012-25 B		C521	87-010-197-089		C-CAP, S 0.01-25 B
C107	87-010-189-089	C-CAP, S 8200P-50 B		C522	87-010-184-089		C-CAP, S 3300P-50 B
C108	87-010-189-089	C-CAP, S 8200P-50 B		C601	87-010-235-089		CAP, E 470-16 SME
C109	87-010-198-089	C-CAP, S 0.022-25 B		C602	87-010-381-089		CAP, E 330-16 SME
C201	87-012-154-089	C-CAP, S 150P-50 CH		C603	87-010-101-089		CAP, E 220-16 SME
C202	87-012-154-089	C-CAP, S 150P-50 CH		C604	87-010-980-089		CAP, E 330-16 FS
C203	87-012-145-089	C-CAP, S 270P-50CH		C605	87-010-263-089		CAP, E 100-10 SME 5X11
C204	87-012-145-089	C-CAP, S 270P-50CH		C606	87-018-134-089		CAP, TC-U 0.01-16 Y
C205	87-010-197-089	C-CAP, S 0.01-25 B		C901	87-010-197-089		C-CAP, S 0.01-25 B
C206	87-010-197-089	C-CAP, S 0.01-25 B		C902	87-010-402-089		CAP, E 2.2-50 SME
C207	87-010-213-089	C-CAP, S 0.015-25 B		C905	87-010-186-089		C-CAP, S 4700P-50 B
C208	87-010-213-089	C-CAP, S 0.015-25 B		C906	87-010-186-089		C-CAP, S 4700P-50 B
C209	87-010-189-089	C-CAP, S 8200P-50 B		C907	87-010-196-089		C-CAP, S 0.1-25 F
C210	87-010-189-089	C-CAP, S 8200P-50 B		C908	87-010-196-089		C-CAP, S 0.1-25 F
C211	87-012-156-089	C-CAP, S 220P-50 CH		EMI605	87-008-372-089		FLTR, EMI BL 01RN1
C212	87-012-156-089	C-CAP, S 220P-50 CH		FC1	82-NV3-629-019		CABLE FFC, 4P-1.25
C301	87-012-154-089	C-CAP, S 150P-50 CH		FC2	82-NF5-653-019		CABLE FFC, 6P-1.25
C302	87-012-154-089	C-CAP, S 150P-50 CH		FC3	82-NV3-628-019		CABLE FFC, 14P-1.25
C303	87-010-402-089	CAP, E 2.2-50 SME		FC4	82-NV3-626-019		CABLE FFC, 6P-1.25
C304	87-010-402-089	CAP, E 2.2-50 SME		L301	87-005-525-089		COIL, 22MH-J
C305	87-010-197-089	C-CAP, S 0.01-25 B		L302	87-005-525-089		COIL, 22MH-J
C306	87-010-197-089	C-CAP, S 0.01-25 B		L303	87-005-580-089		COIL, 10MHJ
C307	87-010-181-089	C-CAP, S 1800P-50 B		L304	87-005-580-089		COIL, 10MHJ
C308	87-010-181-089	C-CAP, S 1800P-50 B		L401	82-NV3-610-019		COIL, OSC BIAS 85K
C310	87-010-186-089	C-CAP, S 4700P-50 B		L402	87-005-126-089		COIL, 1MH
C311	87-010-186-089	C-CAP, S 4700P-50 B		SFR101	87-024-168-089		SFR, 1K DIA6 V
C311	87-010-177-089	C-CAP, S 820P-50 SL		SFR102	87-024-168-089		SFR, 1K DIA6 V
				SFR201	87-024-168-089		SFR, 1K DIA6 V
				SFR202	87-024-168-089		SFR, 1K DIA6 V
				SFR301	87-024-171-089		SFR, 4.7K DIA6 V
				SFR302	87-024-171-089		SFR, 4.7K DIA6 V
				SFR401	87-024-175-089		SFR, 47K DIA6 V
				SFR402	87-024-175-089		SFR, 47K DIA6 V
				X901	87-030-264-089		CERA LOCK(MU)12.0MHZ

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
FRONT A C. B				TAPE-1 C. B			
LED801	87-017-974-089		LED, SEL2215S TP2	SOL1	82-ZM1-618-310		SOL ASSY, 27
LED803	87-017-469-089		LED, SEL2215S TP3	SW4	87-036-110-010		SW, PUSH SPPB 62
LED805	87-017-469-089		LED, SEL2215S TP3	SW5	87-036-110-010		SW, PUSH SPPB 62
S801	87-036-215-089		SW, TACT EVQ21404M	SW6	87-036-110-010		SW, PUSH SPPB 62
S802	87-036-215-089		SW, TACT EVQ21404M				
S803	87-036-215-089		SW, TACT EVQ21404M	TAPE-2 C. B			
S804	87-036-215-089		SW, TACT EVQ21404M	SFR1	87-024-170-080		SFR, 3.3K DIA6 V
S805	87-036-215-089		SW, TACT EVQ21404M	SOL1	82-ZM1-618-310		SOL ASSY, 27
				SW2	87-036-110-010		SW, PUSH SPPB 62
				SW3	87-036-110-010		SW, PUSH SPPB 62
				SW4	87-036-110-010		SW, PUSH SPPB 62
				SW5	87-036-110-010		SW, PUSH SPPB 62
				SW6	87-036-110-010		SW, PUSH SPPB 62
FRONT B C. B				RELAY-1 C. B			
LED701	87-020-109-019		LED, SLF-201C	CON101	82-NV3-622-019		CONN ASSY, 3P HEAD 1
LED702	87-020-109-019		LED, SLF-201C				
S806	87-036-215-089		SW, TACT EVQ21404M	RELAY-2 C. B			
S807	87-036-215-089		SW, TACT EVQ21404M	CON201	82-NV3-623-019		CONN ASSY, 6P HEAD 2
S808	87-036-215-089		SW, TACT EVQ21404M				
S809	87-036-215-089		SW, TACT EVQ21404M				
S810	87-036-215-089		SW, TACT EVQ21404M				

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

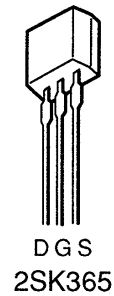
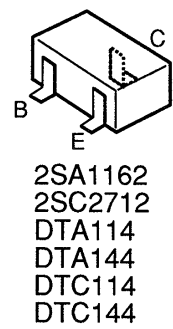
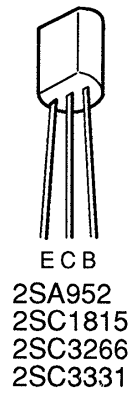
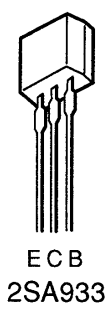
Chip Resistor Part Coding



チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions/寸法 (mm)			Resistor Code : A 抵抗コード : A	
				Form/外形	L	W		t
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35	108
1/10W	2125	± 5 %	CJ		2	1.25	1.45	118
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7	128

TRANSISTOR ILLUSTRATION

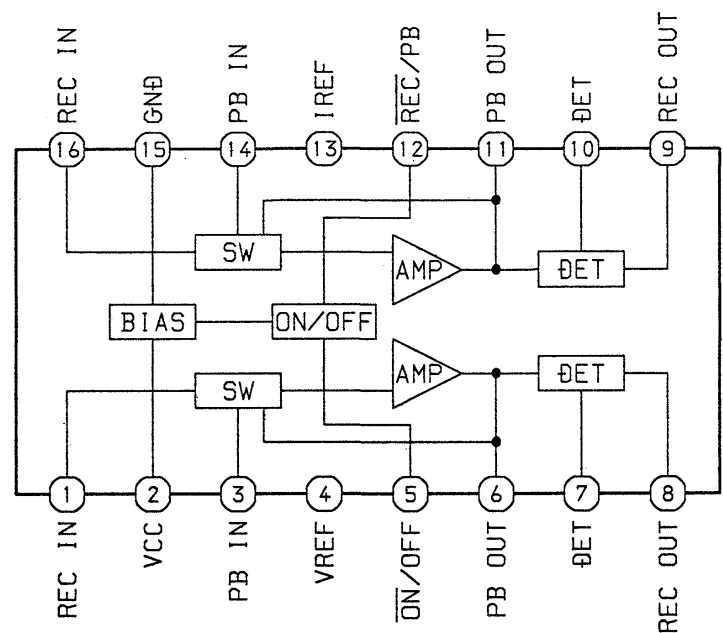


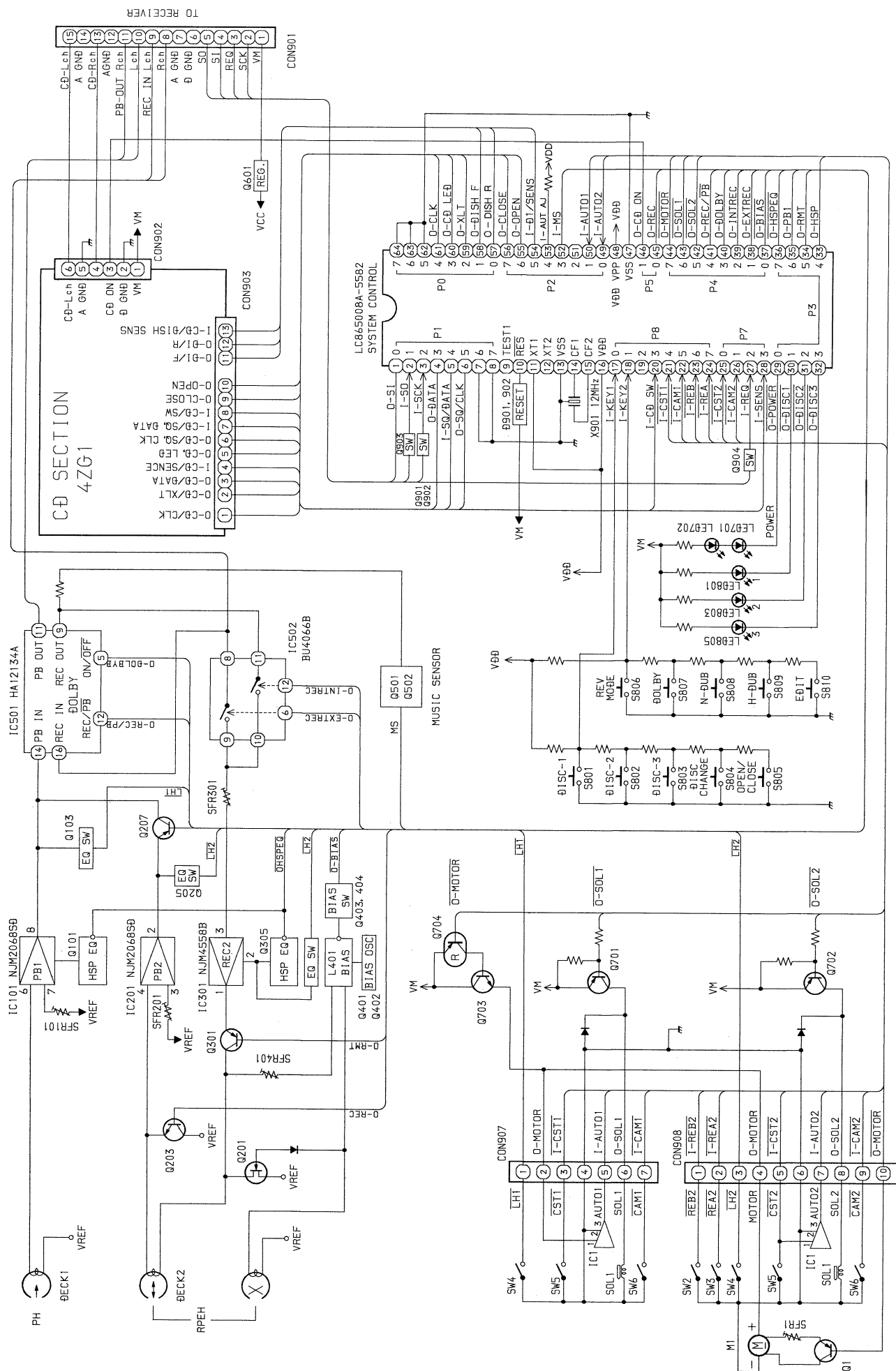
IC DESCRIPTION

IC,LC865008B – 5582

Pin No.	Pin Name	I/O	Description
1	O-SI	O	Serial data output to LC866432V.
2	I-SO	I	Serial data input from LC866432V.
3	I-SCK	I	Serial clock input from LC866432V.
4	O-DATA	O	Serial data output to CXD1167.
5	I-SQ/DATA	I	Sub-code input from CD.
6	O-SQ/CLK	O	Clock output for CD subcode input.
7	—	—	Not used. (Connected to GND)
8	—	—	Not used. (Connected to GND)
9	TEST1	—	Not used.
10	RES	I	Reset input.
11	XT1	—	Connected to +5.6V.
12	XT2	—	Not used.
13	VSS	—	Connected to GND.
14	CF1	I	Input pin for ceramic oscillator.
15	CF2	O	Output pin for ceramic oscillator.
16	VDD	—	Connected to +5.6V.
17	I-KEY1	I	Key data is input in the form of A/D level.
18	I-KEY2	I	Key data is input in the form of A/D level.
19	—	—	Not used. (No connection)
20	I-CDSW	I	CD tray condition is input in the form of A/D level.
21	I-SW CST1	I	Input from DECK-1 tape detector.
22	I-SW CAM1	I	Input from DECK-1 cam switch detector.
23	I-SW REB	I	Input from B side record safety claw detector.
24	I-SW REA	I	Input from A side record safety claw detector.
25	I-SW CST2	I	Input from DECK-2 tape detector.
26	I-SW CAM2	I	Input from DECK-2 cam switch detector.
27	I-REQ	I	Data request input from LC866432V.
28	I-SENS	I	Control sense input from CXD1167.
29	O-POWER	O	System power supply ON/OFF output.
30	O-DISC1	O	Output to illuminate "1" button.
31	O-DISC2	O	Output to illuminate "2" button.
32	O-DISC3	O	Output to illuminate "3" button.
33	O-HSP	O	High speed output to deck motor.
34	O-RMT	O	Muting output to record amplifier.
35	O-PB1	O	Selection between DECK-1 and DECK-2.
36	O-HSPEQ	O	Equalizer selection during high speed dubbing.
37	O-BIAS	O	Output to bias switch.
38	O-EXTREC	O	Mixing recording (except synchro dubbing) ON/OFF output from tape to tape.
39	O-INTREC	O	Recording ON/OFF output except mixing dubbing.
40	O-DOLBY	O	Dolby selection (ON/OFF) output to Dolby IC
41	O-REC/PB	O	Output to Dolby IC for its input selection(REC/PB).
42	O-SOL2	O	Solenoid output to DECK-2
43	O-SOL1	O	Solenoid output to DECK-1
44	O-MOTOR	O	DECK motor output
45	O-REC	O	Output for shorting DECK-2 playback amplifier input during record.
46	O-CDON	O	Output to select power (ON/OFF) of CD circuit
47	VSS	—	Connected GND
48	VDD•VPP	—	Connected to +5.6V
49	I-AUTO2	I	Input from Hall IC detector of DECK-2
50	I-AUTO1	I	Input from Hall IC detector of DECK-1
51	O-PAL/NTSC	O	PAL/NTSC selection of CDG
52	I-MS	I	Input from music search detector
53	I-AUT AJ	I	CD automatic adj. sw sensor input.
54	I-DI SENSE	I	CD turn table photo sensor input. (Connected to VDD.)
55	O-OPEN	O	CD tray OPEN output
56	O-CLOSE	O	CD tray CLOSE output
57	O-DISHR	O	CD turntable reverse rotation output
58	O-DISHF	O	CD turntable forward rotation output
59	O-XLT	O	Control data latch output to CXD1167.
60	O-CD LED	O	CD flash window LED ON/OFF output.
61	O-CD CLK	O	Control data transfer clock output to CXD1167.
62	—	—	Not used (Connected GND)
63	—	—	Not used (Connected GND)
64	—	—	Not used (Connected GND)

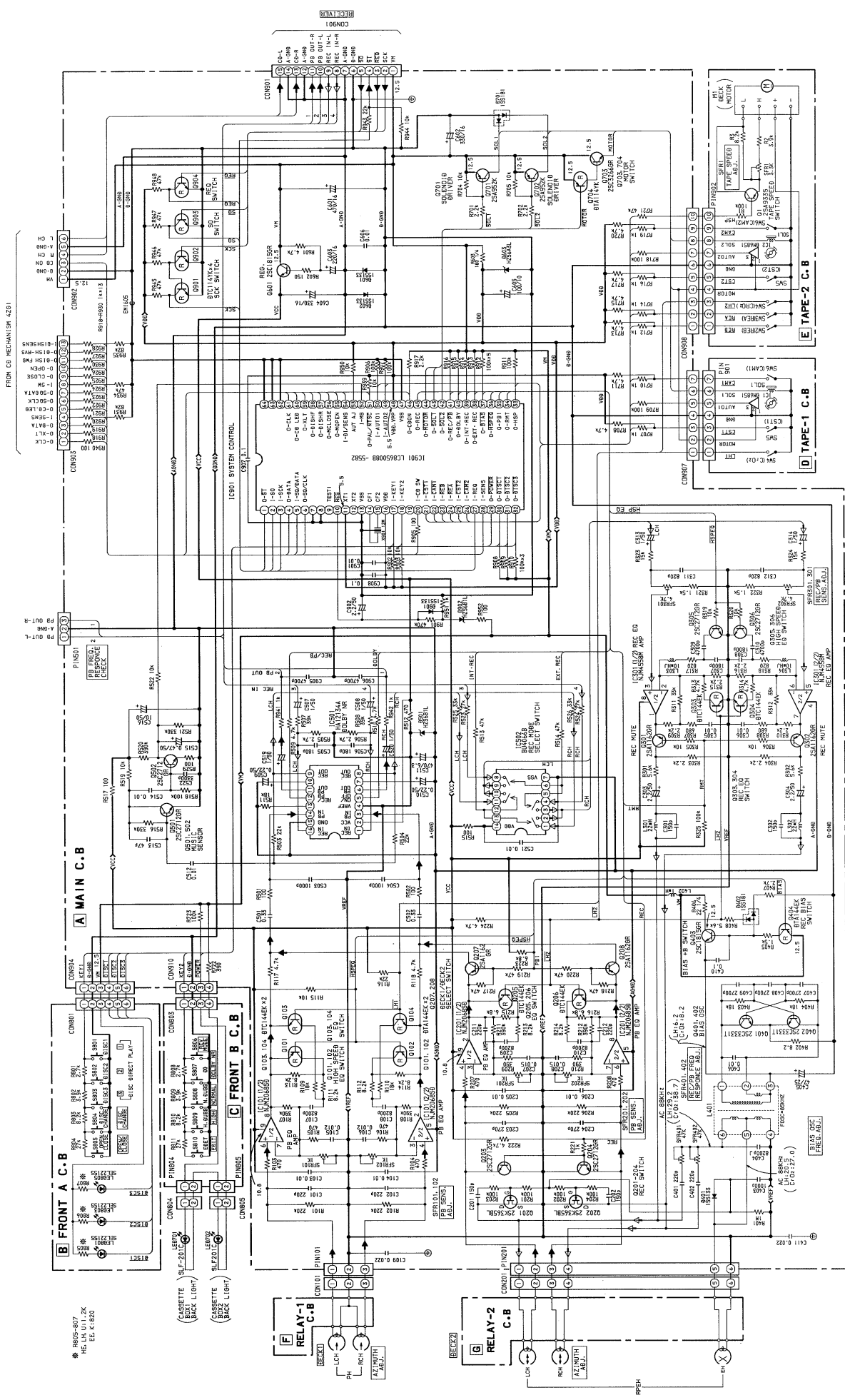
IC BLOCK DIAGRAM
IC,HA12134A





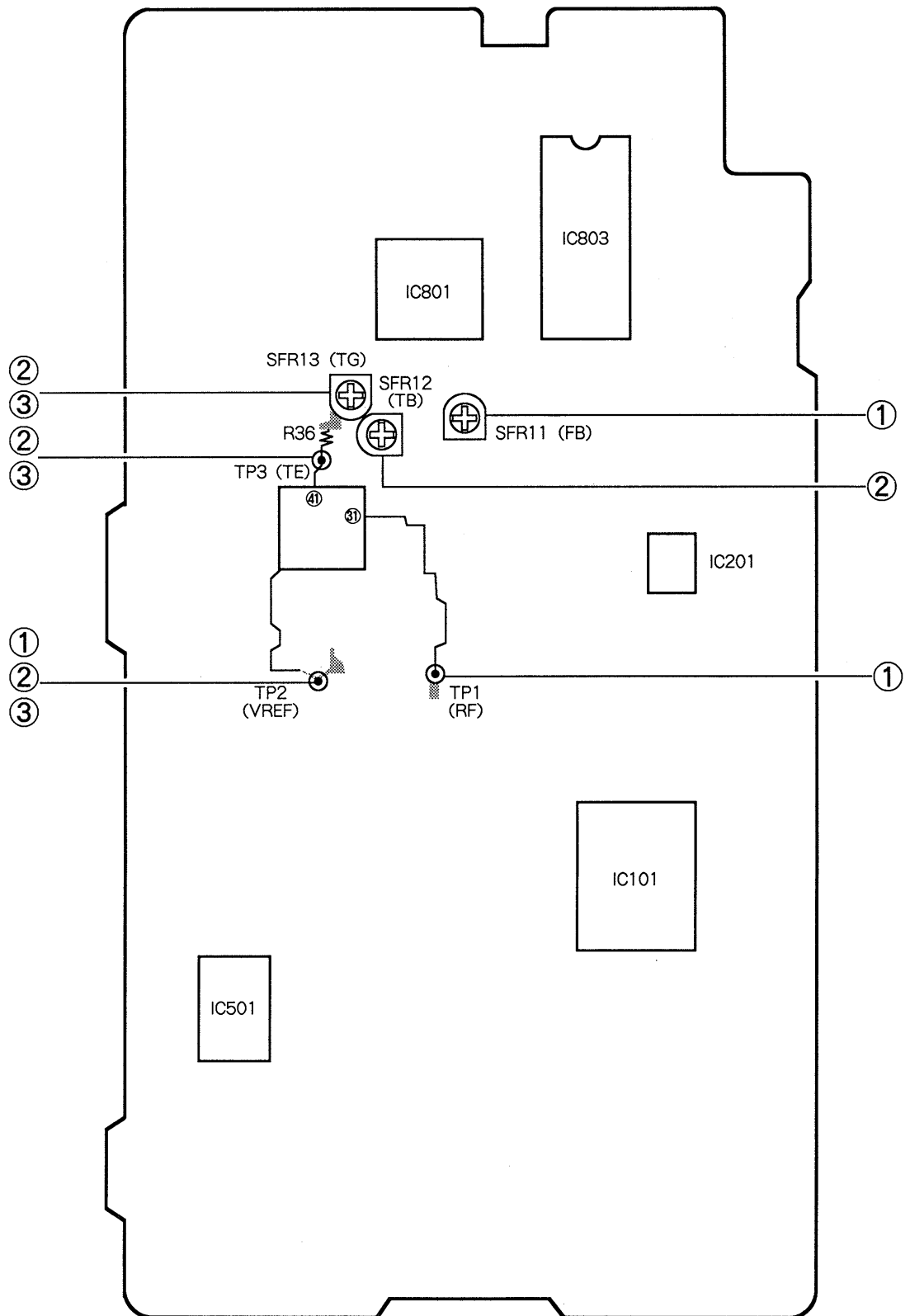


SCHEMATIC DIAGRAM - 1 (MAIN)



ELECTRICAL ADJUSTMENT (CD)

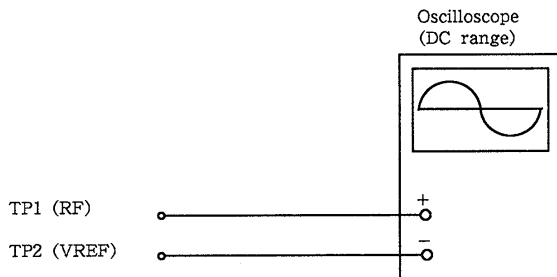
A 3CD C.B



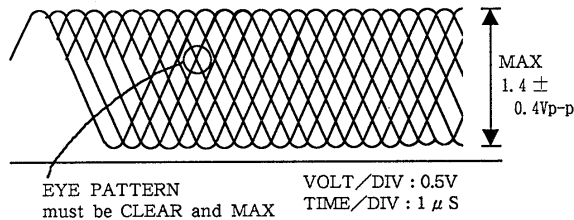
Note : Connect a probe (10:1) of the osilloscope or the frequency counter to a test point.

1. Focus Bias Adjustment

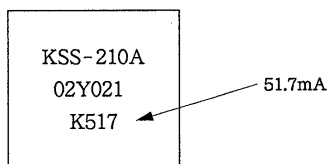
Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to test points TP1 (RF) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR11 so that RF signal of test point TP1 (RF) is MAX and CLEARREST.

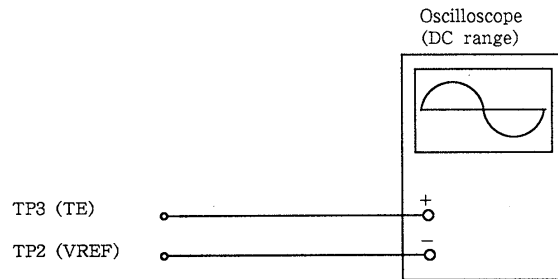


Note : The current of the laser signal can be checked with the voltages on both sides of R28 (10 Ω). The difference for the specified value shown on the level must be within $\pm 6.0\text{mA}$.

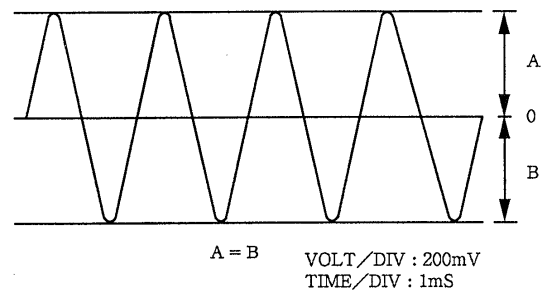


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R28}}{10 \Omega}$$

2. Tracking Balance Adjustment



- 1) Connect an oscilloscope to test points TP3 (TE) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
- 4) Connect the intermediate point of SFR13 to TP2 (VREF).
- 5) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 6) After the adjustment is completed, remove the connected lead wires from the terminals.



3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When gain adjustment is off, the symptoms below appear.

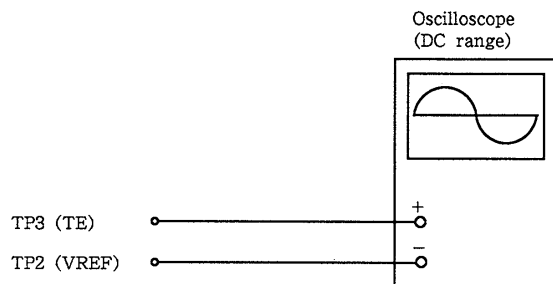
Symptoms \ Gain	(Focus)	Tracking
● The time until music starts becomes longer for STOP→▶PLAY or automatic selection (◀▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP→▶PLAY or automatic selection (◀▶ buttons pressed.)	—	low
● Disc stops to rotate shortly after STOP→▶PLAY.	low or high	—
● Sound is interrupted during PLAY. Or time counter display stops.	—	low
● More noises during the 2-axis device operation.	high	high

The following is simple adjustment method.

— Simple adjustment —

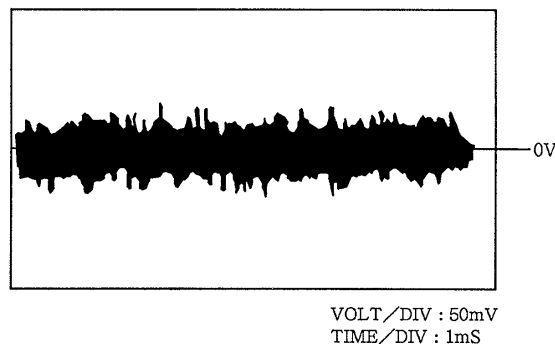
Note : Since exact adjustment cannot be performed, remember the positions of the controls before the performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure



- 1) Keep the set horizontal.(If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 3) Connect an oscilloscope to TP3 (TE),TP2 (VREF) of the CD C.B.

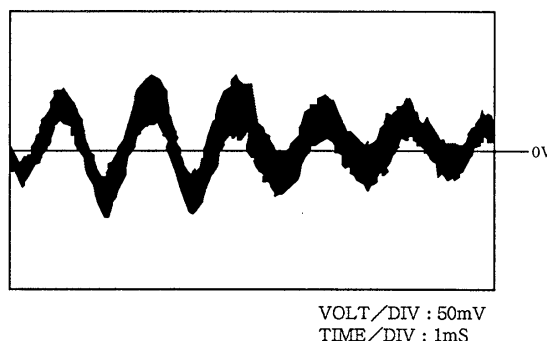
- 4) Adjust SFR3 so that the waveform appears as shown in the figure below.(tracking gain adjustment)



● Incorrect example

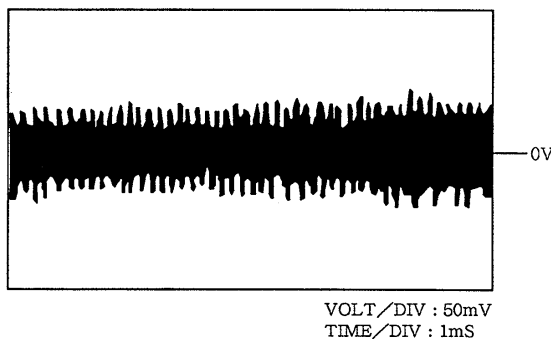
Low tracking gain

The fundamental wave appears as compared with the waveform adjusted.



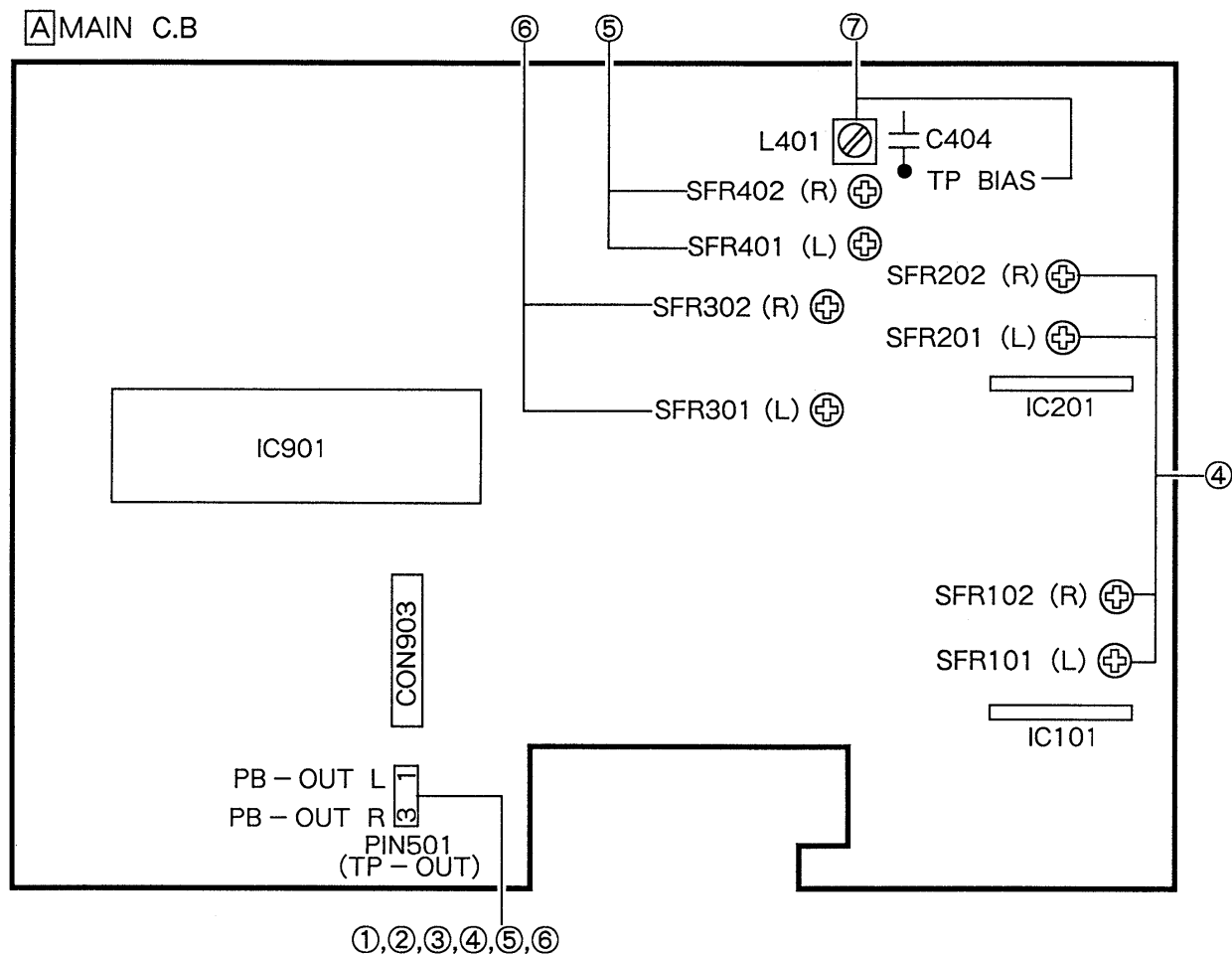
High tracking gain

The frequency of the fundamental wave is higher than in low gain.

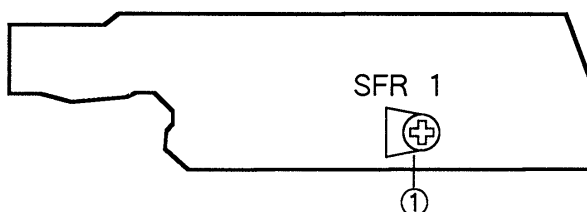


ELECTRICAL ADJUSTMENT (TAPE)

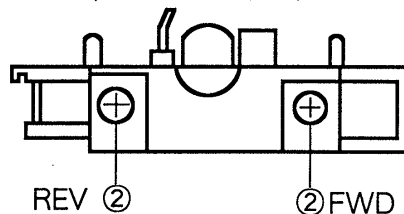
A MAIN C.B



E TAPE - 2 C.B



DECK 1P, DECK 2R/P/E HEAD



1. Tape Speed Adjustment

Settings : • Test tape : TTA-100
 • Test point : TP CONN 3P (PIN501) ①,③
 • Adjustment location : SFR 1

Method : Play back the test tape by DECK II and adjust SFR 1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$.

3. PB Frequency Response Check

Settings : • Test tape : TTA-310
 • Test point : TP CONN 3P (PIN501) ①,③

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is $\pm 2\text{dB}$.

2. Head Azimuth Adjustment

Settings : • Test tape : TTA-310
 • Test point : TP CONN 3P (PIN501) ①,③
 • Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

4. PB Sensitivity Adjustment

Settings : • Test tape : TTA-200
 • Test point : TP CONN 3P (PIN501) ①,③ (load $47\text{K}\Omega$)

• Adjustment location :

(I DECK)	SFR101 (Lch)
	SFR102 (Rch)
(II DECK)	SFR201 (Lch)
	SFR202 (Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point is 300mV

5. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-601
• Test point : TP CONN 3P (PIN501) ①,③
• Input signal : 1kHz/10kHz
(VIDEO/AUX)
• Adjustment location : SFR401 (Lch)
SFR402 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP CONN 3P (PIN501) ①,③ is 21mV.

Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signal is 0dB $\pm$ 0.5dB with respect to that of the 1kHz signal.

6. REC/PB Sensitivity Adjustment

Settings : • Test tape : TTA-601 (TTA - 600)
• Test point : TP CONN 3P (PIN501) ①,③
• Input signal : 1kHz (VIDEO/AUX)
• Adjustment location : SFR301 (Lch)
SFR302 (Rch)

Method : Apply a 1kHz signal and REC mode.

Then adjust OSC attenuator so that the output level at the TP CONN 3P (PIN501) ①,③ is 21mV.

Record and play back the 1kHz signal and adjust SFRs so that the output becomes 21mV $\pm$ 0.5dB.

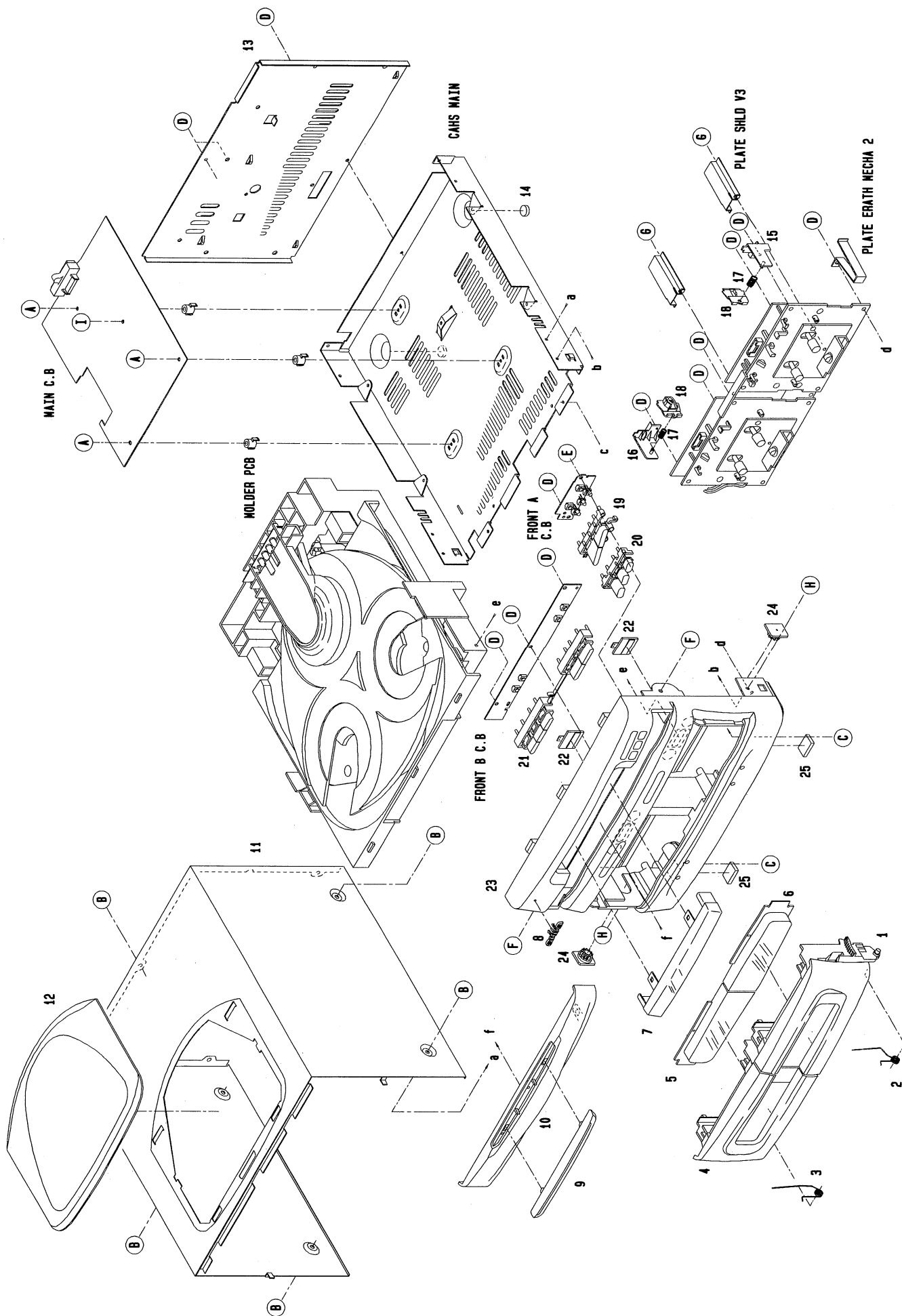
7. Bias OSC Frequency Adjustment

Settings : • Test tape : TTA-601
• Test point : TP BIAS (C404)
• Adjustment location : L401

Method : Set to the REC mode. Adjust L401 so that the frequency counter of the test point reads 85kHz $\pm$ 1kHz.

PRACTICAL SERVICE FIGURE (TAPE)

Tape speed :	3000Hz $\pm$ 45Hz
Wow & flutter :	Less than 0.4 % (R.M.S)
Take-up torque :	30~55g-cm (FWD, REV)
F.F torque :	75~180g-cm
Rew torque :	75~180g-cm
Back tension :	2~7g-cm
PB Output level :	2.5V $\pm$ 1.0dB (SP OUT)
REC/PB Output level :	1.75V $\pm$ 1.0dB (SP OUT)
Distortion (REC/PB) :	Less than 2 % (NORM, CrO ₂)
Noise level (PB) :	Less than 10mV/15mV (DOLBY B NR ON/OFF CrO ₂) Less than 15mV/25mV (DOLBY B NR ON/OFF NORM)
Noise level (REC/PB) :	Less than 10mV/15mV (DOLBY B NR ON/OFF CrO ₂) Less than 15mV/25mV (DOLBY B NR ON/OFF NORM)
Erasing ratio :	More than 60dB
REC bias frequency :	85kHz
Test tape :	NORMAL TTA - 601 CrO ₂ TTA - 610

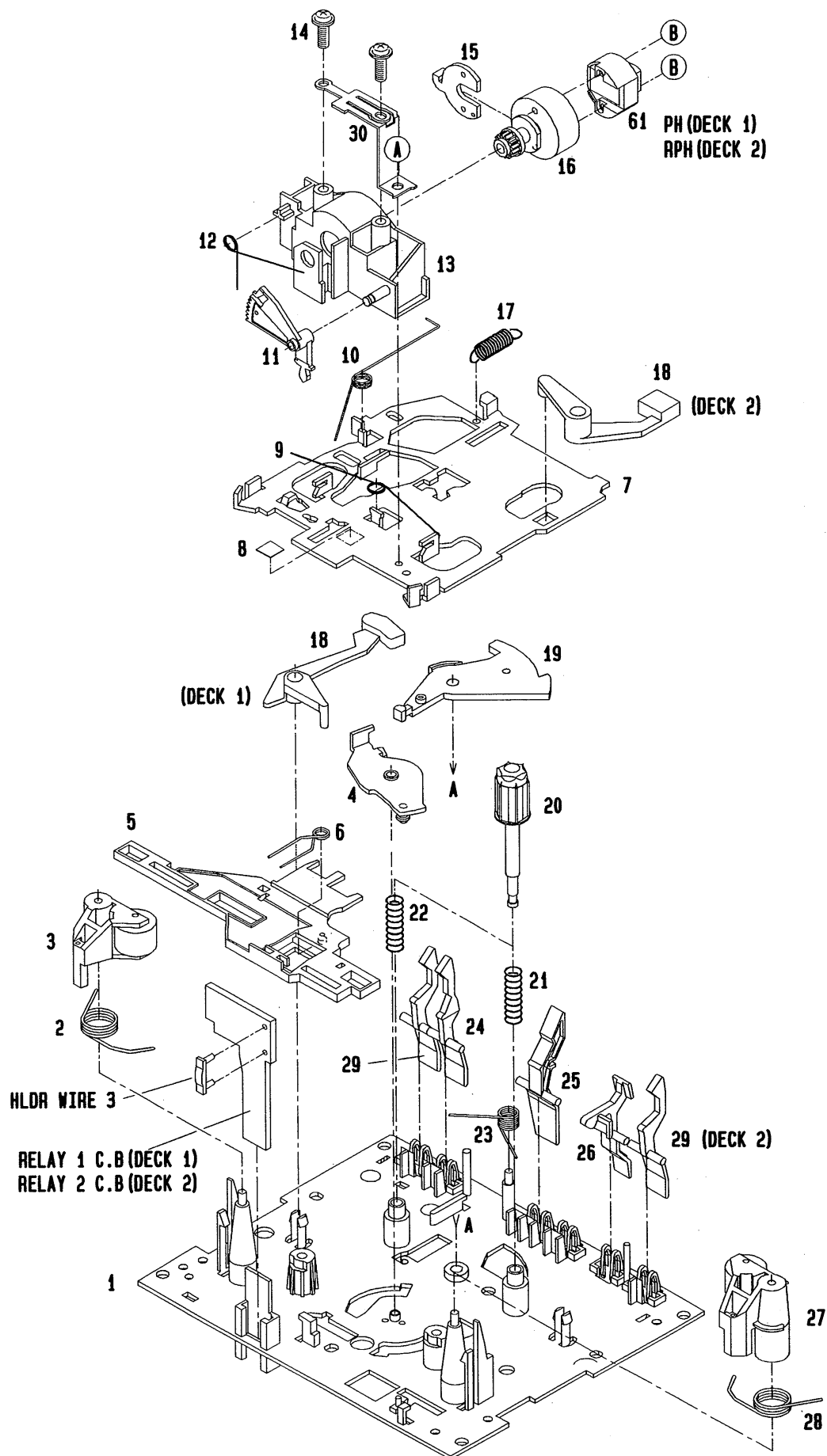


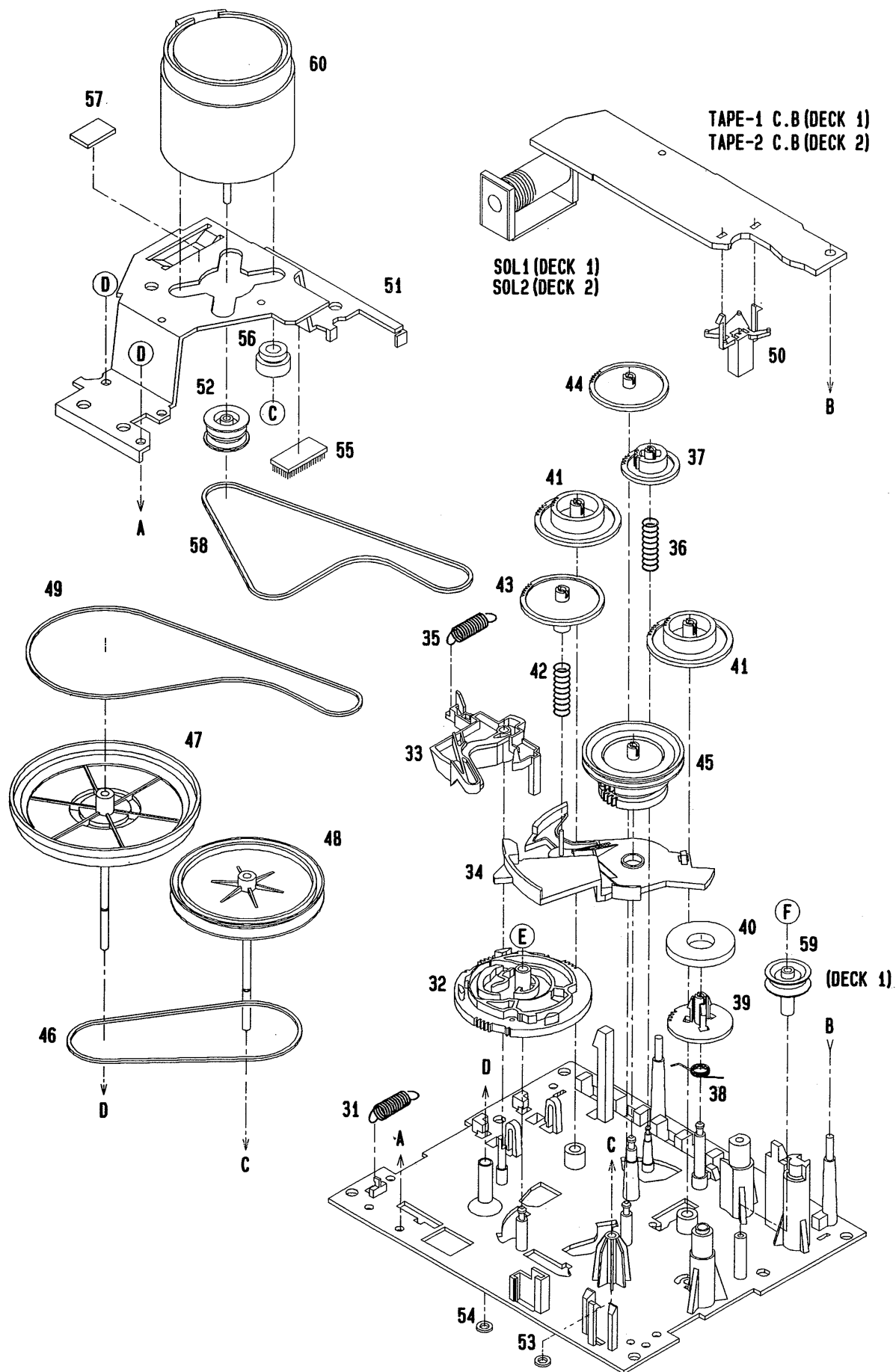
MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	83-NV4-004-019		BOX, CASS 2	19	83-NV4-007-019		KEY, OPEN
2	83-NV4-202-019		SPR-T, EJECT 2	20	83-NV4-008-01K		KEY, DISC
3	83-NV4-201-019		SPR-T, EJECT 1	21	83-NV4-009-019		KEY, DOLBY
4	83-NV4-003-019		BOX, CASS 1	22	87-020-109-019		LED, SLF-201 C
5	83-NV4-013-019		WINDOW, BOX 1	23	83-NV4-001-019		CAB, FR<EXCEPT U>
6	83-NV4-014-019		WINDOW, BOX 2	23	83-NV4-017-019		CAB, FR U<U>
7	83-NV4-012-019		WINDOW, CD	24	87-063-165-019		OIL-DMPR 150
8	82-NE8-032-019		BADGE AIWA 27. 5	25	80-VT1-202-019		FELT, 12. 5-15. 5-2
9	83-NV4-006-019		DUMMY, TRAY	A	87-067-632-019		BVT2+3-15 W CONVEX
10	83-NVE-005-019		PANEL, TRAY 14	B	87-067-641-019		UTT2+3-8 (W/O SLOT) BK
11	83-NV4-011-019		CAB, STEEL	C	87-067-673-019		BVTT+3-8 BLK
12	83-NF5-021-019		WINDOW, TOP	D	87-067-703-019		BVT2+3-10 (W/O SLOT)
13	83-NVE-004-019		PANEL, REAR 14 YBN<LH, K, EE>	E	87-067-758-019		BVT2+3-12 W/O SLOT
13	83-NVE-002-019		PANEL, REAR 14 YJBN<HE>	F	87-721-097-419		QT2+3-12 GLD
13	83-NVE-001-019		PANEL, REAR 14 YUBN<U>	G	87-571-032-419		VIT+2-3
14	82-NV1-213-019		FELT, DIA 12-2	H	87-591-094-419		QIT+3-6GLD
15	82-NF5-227-019		HLD, LOCK 2N	I	87-067-579-019		BVT2+3-8 W/O SLOT
16	82-NF5-226-019		HLD, LOCK 1N				
17	82-NF5-228-019		SPR-C, LOCK				
18	82-NF5-229-019		PLATE, LOCK				

TAPE MECHANISM EXPLODED VIEW 1/1

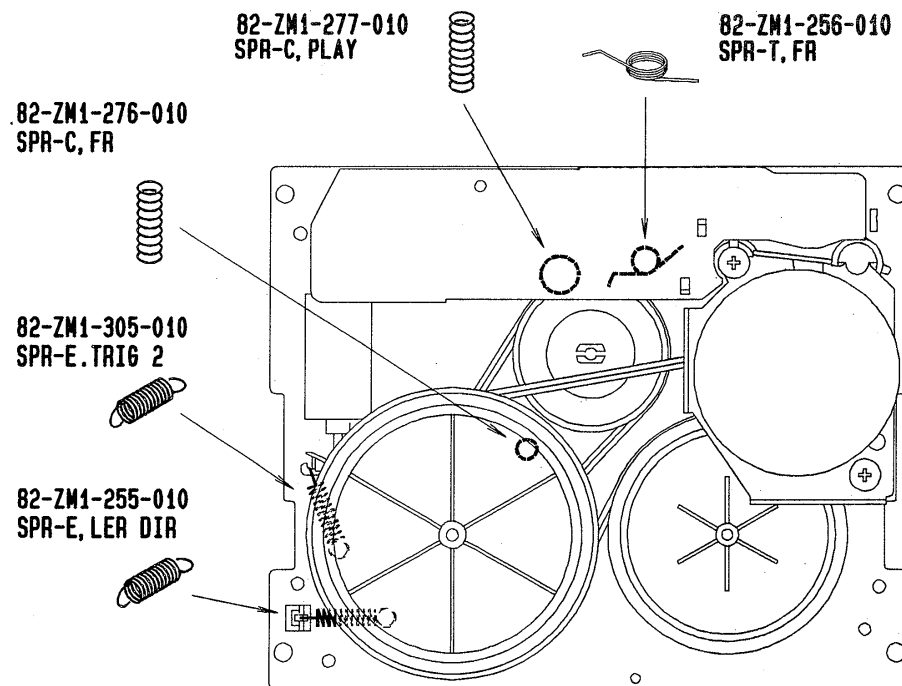
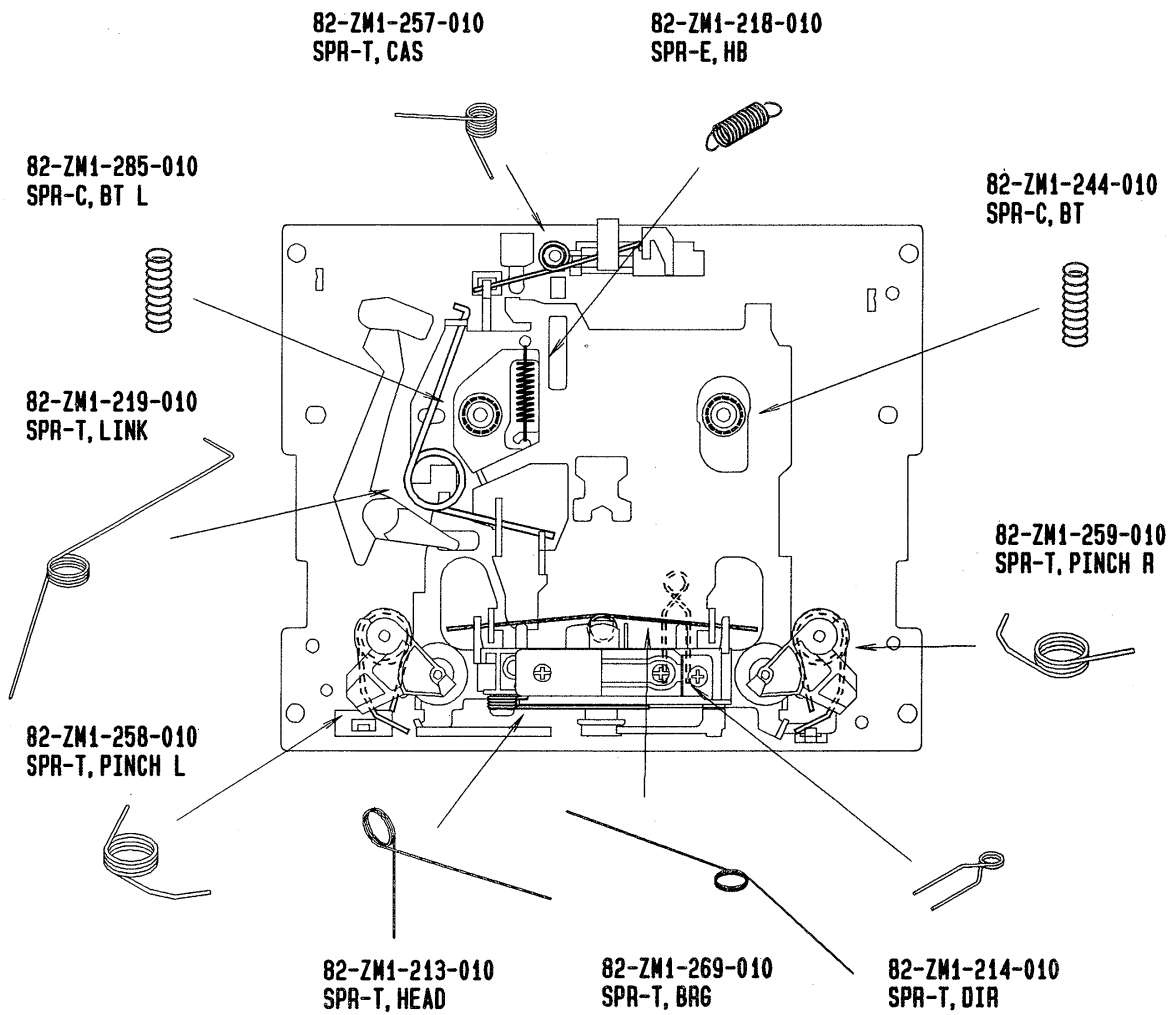




TAPE MECHANISM PARTS LIST 1/1

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY, P (DECK 1)	39	82-ZM1-220-210		GEAR, IDLER
1	82-ZM1-299-010		CHAS ASSY, R (DECK 2)	40	80-ZM6-217-010		RING MAGNET 2
2	82-ZM1-258-010		SPR-T, PINCH L	41	82-ZM1-216-210		GEAR, REEL
3	82-ZM1-248-110		LVR ASSY, PINCH L	42	82-ZM1-276-010		SPR-C, FR
4	82-ZM1-295-210		PLATE ASSY, LINK	43	82-ZM1-225-010		GEAR, FR
5	82-ZM1-266-010		LVR, DIR	44	82-ZM1-226-010		GEAR, REW
6	82-ZM1-214-010		SPR-T, DIR	45	82-ZM1-228-210		SLIP DISK ASSY
7	82-ZM1-206-210		CHAS, HEAD	46	82-ZM1-261-110		BELT, FR
8	87-078-014-010		SH, 5-5-0.05	47	82-ZM1-237-210		FLY-WHL ASSY, R (DECK 2)
9	82-ZM1-269-010		SPR-T, BRG	47	82-ZM3-209-110		FLY-WHL ASSY, R2 (DECK 1)
10	82-ZM1-219-010		SPR-T, LINK	48	82-ZM1-234-110		FLY-WHL ASSY, L (DECK 2)
11	82-ZM1-210-010		GEAR, H T	48	82-ZM3-207-210		FLY-WHL ASSY, L2 (DECK 1)
12	82-ZM1-213-010		SPR-T, HEAD	49	82-ZM3-206-010		BELT, R
13	82-ZM1-207-010		GUIDE, TAPE	50	82-ZM1-245-210		HLD, IC
14	82-ZM1-283-210		S-SCREW, AZIMUTH	51	82-ZM3-201-010		HLD, MC
15	82-ZM1-209-010		PLATE, HEAD	52	82-ZM3-202-010		PULLEY, MOT 2M
16	82-ZM1-208-010		HLD, HEAD	53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
17	82-ZM1-218-010		SPR-E, HB	54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	55	80-ZM6-230-010		SH, BELT
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)	56	86-575-242-010		CUSH-G, DIA3.7-9-3.2
19	82-ZM1-222-010		LVR, PLAY	57	86-575-361-010		CUSH-G, 6-8-0.8
20	82-ZM1-217-110		REEL TABLE	58	82-ZM3-205-010		BELT, L
21	82-ZM1-244-110		SPR-C, BT	59	82-ZM3-204-010		PULLEY, COUPLER (DECK 1)
22	82-ZM1-285-110		SPR-C, BT L	60	87-045-347-010		MOT, SHU2L 70(M1)
23	82-ZM1-257-010		SPR-T, CAS	61	87-046-355-010		HEAD, PH HADKH2529B(PH)
24	82-ZM1-241-110		LVR, MC	61	87-046-356-010		HEAD, RPH HADKH5581B(RPH)
25	82-ZM1-242-010		LVR, CAS	A	87-585-036-410		UIT+2-8
26	82-ZM1-243-010		LVR, STOP	B	80-ZM6-207-010		V+1.6-7
27	82-ZM1-253-110		LVR ASSY, PINCH R	C	82-ZM1-309-010		S-SCRW, MOTOR
28	82-ZM1-259-010		SPR-T, PINCH R	D	87-067-178-010		VTT+2.6-3
29	82-ZM1-240-110		LVR, REC (DECK 2)	E	87-067-932-010		PW, 2.15-6.8-0.5 SLT
30	82-ZM1-298-010		SPR-P, EARTH	F	87-067-972-010		PW, 1.05-3-0.25 SLT
31	82-ZM1-255-110		SPR-E, LVR DIR				
32	82-ZM1-221-110		GEAR, CAM				
33	82-ZM1-227-110		LVR, TRIG				
34	82-ZM1-224-110		LVR, FR				
35	82-ZM1-305-010		SPR-E, TRIG 2				
36	82-ZM1-277-010		SPR-C, PLAY				
37	82-ZM1-223-010		GEAR, PLAY				
38	82-ZM1-256-110		SPR-T, FR				

SPRING APPLICATION POSITION



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, SERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビスセレート	SCRW,SERRART

サービス技術ニュース	
番 号	連絡内容
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