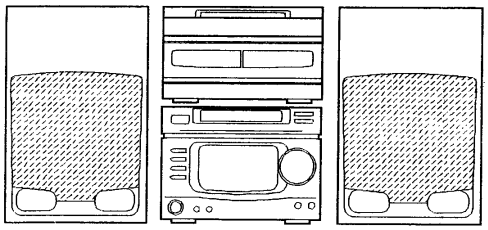
aiwa

aiwa SERVICE

NSX-D757
NSX-D757R
NSX-D656R

SERVICE MANUAL



STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3 PR1N
- BASIC CD MECHANISM: 4ZG-1SDFR
- TYPE: HE,HK,HR,LH,U(757) K,EE,EZ(757R) EZ(656R)

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-956-108-30T).

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1S. (S/M Code No. 09-955-104-70T)

SYSTEM	AMPLIFIER TUNER	CASSETTE DECK CD PLAYER	REMOTE CONTROLLER	SPEAKERS
NSX-D757	RX-N757	FD-N757	RC-TN506	SX-N757
NSX-D757R	RX-N757R	FD-N757	RC-TN506	SX-N757
NSX-D656R	RX-N656R	FD-N757	RC-TN501	SX-N757

S/M Code No. 09-956-108-40T

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SPECIFICATIONS

NSX-D757

STEREO RECEIVER RX-N757/N760G

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW (AM) tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

(HE, HR, HK MODELS)

SW tuner section

Tuning range	SW 1: 3.20 MHz to 7.30 MHz SW 2: 9.50 MHz to 21.85 MHz
Antenna	Wire antenna

Amplifier section

Power output

HE, HK:
Front (without connecting to the SURROUND SPEAKERS)
60 W + 60 W (6 ohms, T.H.D. 10 %, 1 kHz)
Rear:
10 W + 10 W (16 ohms, T.H.D. 10%, 1 kHz)
Center:
20 W (8 ohms, T.H.D. 10%, 1 kHz)
HR:
Front: (without connecting to the SURROUND SPEAKERS)
Rated 50 W + 50 W (6 ohms, T.H.D. 1%, 1 kHz)
Reference 60 W + 60 W (6 ohms, T.H.D. 10%, 1 kHz)
Rear:
Rated 7.5 W + 7.5 W (16 ohms, T.H.D. 1%, 1 kHz)
Reference 10 W + 10 W (16 ohms, T.H.D. 10%, 1 kHz)
Center:
Rated 15 W (8 ohms, T.H.D. 1%, 1 kHz)
Reference 20 W (8 ohms, T.H.D. 10%, 1 kHz)

U model

FTC RULE
Front:
50 watts per channel minimum RMS, both channels driven, at 6 ohms
Rear:
7.5 watts per channel minimum RMS, both channel driven, at 16 ohms
Center:
15 watts minimum RMS at 16 ohms
From 50 Hz to 12000 Hz with no more than 1 % total harmonic distortion

LH model

Front (without connecting to the SURROUND SPEAKERS):
60 W + 60 W (6 ohms, T.H.D. 10 %, 1 kHz)
Rear:
10 W + 10 W (16 ohms, T.H.D. 10 %, 1 kHz)
Center:
20 W (8 ohms, T.H.D. 10 %, 1 kHz)

Total harmonic distortion	0.1 % (30 W, 1 kHz, 6 ohms)
Inputs	VIDEO/AUX: 300 mV (adjustable) MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	LINE OUT: 300 mV SUPER WOOFER: 1.7 V SPEAKERS: accepts speakers of 6 ohms or more SURROUND SPEAKERS: accepts speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

COMPACT DISC/STEREO CASSETTE DECK FD-N757/N757R

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	DECK 1: Playback head × 1 DECK 2: Recording/playback/erase head × 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

SPEAKER SYSTEM SX-N757

Cabinet type	3 way, bass reflex with surround speaker (Magnetism sealed type)
Speaker	Woofer: 140 mm (5⅝ in.) cone type Tweeter: 60 mm (2⅜ in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	220 × 360 × 265 mm (8¾ × 14¼ × 10½ in.)
Weight	3.5 kg (7 lbs 11 oz.)

GENERAL

Power requirements	HE, HR, HK: 120/220-230/240 V AC, switchable 50/60 Hz U: 120 V AC, 60 Hz LH: 120 V/220-230 V/240 V AC, switchable 50/60 Hz
Power consumption	HE, HR, HK: 105 W (System total 120 W) U: 85 W (System total 100 W) LH: 105 W (System total 120 W)
Dimensions of main unit (W × H × D)	RX-N757: 260 × 180 × 341.7 mm (10 1/4 × 7 1/8 × 13 1/2 in.) FD-N757: 260 × 182.5 × 328.5 mm (10 1/4 × 7 1/4 × 13 in.)
Weight of main unit	RX-N757: 5.6 kg (12 lbs 6 oz) FD-N757: 3.8 kg (8 lbs 6 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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  Under license from BBE Sound, Inc.

STEREO RECEIVER RX-N757R/656R

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	EE, EZ, EEZ: 16.8 dBf K: 16.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

RX-N757R MODEL

Amplifier section

Power output	Front: (without connecting to the SURROUND SPEAKERS) Rated 50 W + 50 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference 60 W + 60 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER 105 W + 105 W Rear: Rated 7.5 W + 7.5 W (16 ohms, T.H.D. 1 %, 1 kHz) Reference 10 W + 10 W (16 ohms, T.H.D. 10 % 1 kHz) DIN MUSIC POWER 16 W + 16 W Center: Rated 15 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference 20 W (8 ohms, T.H.D. 10 %, 1 kHz) DIN MUSIC POWER 32 W
Total harmonic distortion	0.1 % (30 W, 1 kHz, 6 ohms)
Inputs	VIDEO/AUX: 300 mV (adjustable) MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	LINE OUT: 300 mV SUPER WOOFER: 1.7 V SPEAKERS: accepts speakers of 6 ohms or more SURROUND SPEAKERS: accepts speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

RX-N656R MODEL

Amplifier section

Power output	Rated 30 W + 30 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference 40 W + 40 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER 58 W + 58 W
Total harmonic distortion	0.1 % (15 W, 1 kHz, 6 ohms)
Inputs	VIDEO/AUX: 300 mV (adjustable) MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	LINE OUT: 300 mV SUPER WOOFER: 1.3 V SPEAKERS: accepts speakers of 6 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

COMPACT DISC/STEREO CASSETTE DECK FD-N757R/N757

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	DECK 1: Playback head × 1 DECK 2: Recording/playback/erase head × 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

SPEAKER SYSTEM SX-N757

Cabinet type	3 way, bass reflex with surround speaker (Magnetism sealed type)
Speaker	Woofer: 140 mm (5⅝ in.) cone type Tweeter: 60 mm (2⅜ in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	220 × 360 × 265 mm (8¾ × 14¼ × 10½ in.)
Weight	3.5 kg (7 lbs 11 oz.)

GENERAL

Power requirements	230 V AC, 50 Hz
Power consumption	757R: 365 W (System total 380 W) 656R: 125 W (System total 140 W)
Dimensions of main unit (W × H × D)	RX-N757R/N757: 260 × 180 × 341.7 mm (10 1/4 × 7 1/8 × 13 1/2 in.) FD-N757R/N656R: 260 × 182.5 × 328.5 mm (10 1/4 × 7 1/4 × 13 in.)
Weight of main unit	RX-N757R: 5.6 kg (12 lbs 6 oz) RX-N656R: 4.7 kg (10 lbs 6 oz) FD-N757R/N757: 3.8 kg (8 lbs 6 oz)

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  Under license from BBE Sound, Inc.

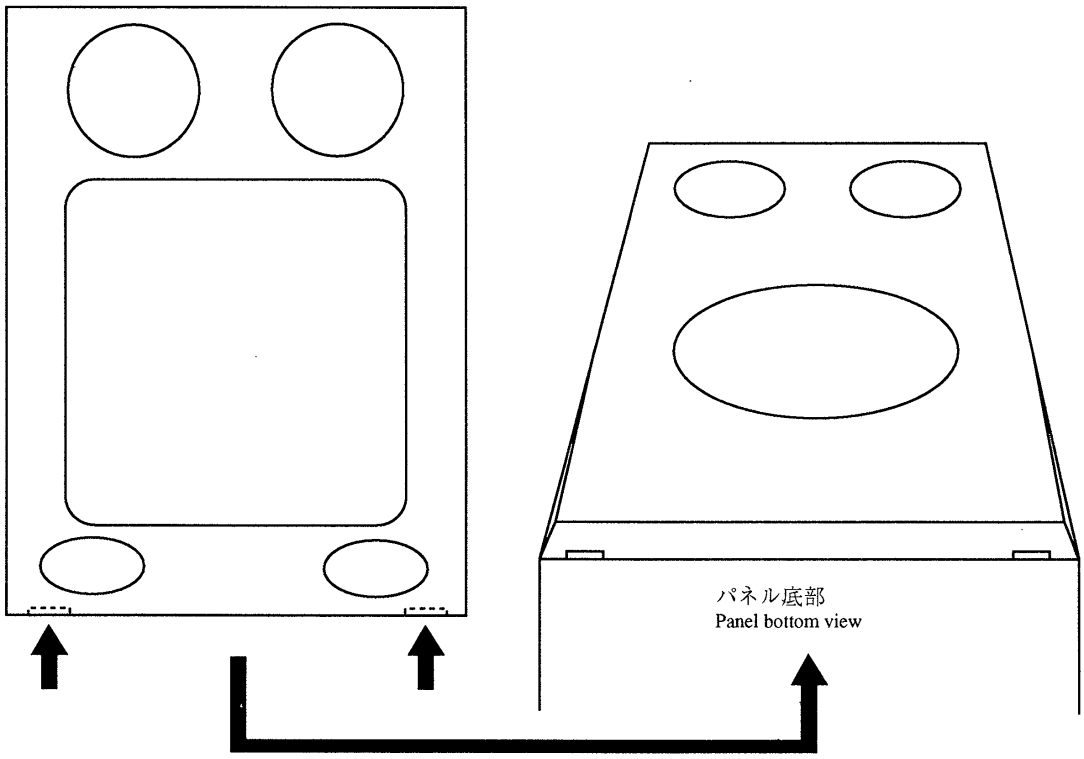
■ ACCESSORIES ／ PACKAGE LIST

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	85-NT3-901-019		IB,H-ECA(S)<HE,HK,HR>
1	85-NT3-902-019		IB,H-ESF(S)<LH,U>
1	85-NT3-903-019		IB,E-ESF(S)<K,EE,EZ>
1	85-NT3-904-019		IB,E-EGI(S)<EE,EZ>
1	85-NT3-906-019		IB,E-ESF,656R(S)<656R>
1	85-NT3-907-019		IB,E-EGI,656R(S)<656R>
2	85-NF5-631-019		RC-T501<656R>
2	85-NT3-661-019		RC-T506<EXCEPT 656R>
3	87-006-225-019		AM LOOP ANT NC2<EXCEPT HE,HK,HR>
3	87-006-240-019		AM LOOP ANT CON(KO)<HE,HK,HR>
4	87-043-106-019		FM, WIRE ANT (Z)<656R,K,EE,EZ>
4	87-043-115-01B		ANT,FEEDER FM<HE,HK,HR,LH,U>
5	87-043-095-019		ANTENNA WIRE<HE,HK,HR>
6	87-099-789-019		PLUG,ADPTR IR44<HE,HR,LH>

DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。
Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel.
Remove the screws of each speaker unit and then remove the speaker units.



■SPEAKER PARTS LIST

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REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-NS3-001-010		GRILL FR.
2	85-NS3-005-010		RING W.
3	85-NS3-014-010		PANEL TW ASSY
4	85-NS3-015-010		GRILL FRAME ASSY
5	85-NS3-602-010		SPEAKER WOOFER
6	85-NS3-604-010		SPEAKER TWEETER
7	83-096-614-010		SPEAKER CORD
8	83-149-611-010		TERMINAL

MODEL NO.

RX-N757/757R/656R

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
IC			
	87-017-885-010		IC,NJM2177AF
	87-017-787-010		IC,M62412P
	87-001-607-089		IC,NJM4558M
	87-017-022-089		IC,NJM2068M-D(T1)
	87-002-272-089		IC,TC4052 BF
	87-002-872-040		IC,MC 14053 BF
	87-017-888-089		IC,NJM4558MD
	87-020-966-019		IC,STK4142-MK2<656R>
	87-020-982-019		IC,STK4162-MK2<K,EE,U,EZ>
	87-001-903-019		STK-4172-2<HE,HK,HR,LH>
	87-017-375-089		IC,TC4094BF
	87-002-967-089		IC,BU4052 BF
	87-070-205-019		IC,TC9299P
	87-070-232-019		IC,BA3834S
	87-017-449-010		IC,XR-1071CP<EXCEPT 656R>
	87-070-184-040		IC,M65846FP-600D
	87-017-673-019		IC,BA3837
	87-070-163-019		IC,STK405-030
	87-002-909-180		IC,TDA7330AD-013TR<656R,K,EE,EZ>
	87-001-792-089		IC,NJM2100M<656R,K,EE,EZ>
	87-070-127-019		IC,LC72131
	87-017-714-019		IC,LA1836
	85-NT3-650-010		IC,LC866440W-5805<HE,HK,HR,LH,U>
	85-NT3-649-010		IC,LC866440W-5827<656R,K,EE,EZ>
	87-017-373-019		IC,NJH32H380A
TRANSISTOR			
	87-026-210-089		C-TR,DTC144EK T147
	89-213-702-019		TR,2SB1370E
	89-318-155-089		TR,2SC1815GR
	87-026-609-089		TR,KTA1266GR
	87-026-610-089		TR,KTC3198GR
	89-327-125-089		C-TR,2SC2712GR
	89-332-665-089		TR,2SC3266GR
	89-420-053-089		TR,2SD2005R<U>
	89-111-625-089		C-TR,2SA1162GR
	87-026-658-010		FET 2SJ176<EXCEPT 656R>
	89-510-940-010		FET 2SK1094<EXCEPT 656R>
	89-322-405-089		TR,2SC2240GR<EXCEPT 656R>
	89-333-266-089		C-TR,2SC3326B
	87-026-232-089		C-TR,DTA144WK
	87-026-213-089		C-TR,DTC114YK
	89-113-187-889		TR,2SA1318TU
	89-406-555-089		TR,2SD655E
	87-026-238-089		C-TR,DTC144WK
	89-316-236-089		TR,2SC 1623 L6
	87-026-214-089		TR,DTA114YS
	89-327-143-089		C-TR,2SC2714 (O)
	87-026-226-089		C-TR,DTA143EK
	87-026-211-089		C-TR,DTA144EK T147
	89-318-154-089		TR,2SC1815Y<HE,HK,HR>
	87-026-462-089		TR,2SC1740S (RS)<HE,HK,HR>
	89-320-011-089		TR,2SC2001K<HE,HK,HR>
	89-505-434-589		C-FET,2SK543(4/5)
DIODE			
	87-017-447-010		DIODE,GBU4DL
	87-017-654-060		DIODE,GBU6J<EXCEPT 656R>
	87-020-465-089		DIODE,ISS133
	87-020-027-089		C-DIODE,1SS184
	87-017-978-089		DIODE,1N4003
	87-020-125-089		C-DIODE,1SS181
	87-017-174-089		ZENER,HZS11A3L
	87-017-147-089		ZENER,HZS33-2
	87-001-408-080		DIODE,GP 15B
	87-070-178-099		DIODE,IN5402-BD54<EXCEPT 656R>
	87-017-091-089		ZENER,HZS5C1<EXCEPT 656R>
	87-001-731-089		ZENER,HZS6C2L
	87-001-911-089		ZENER,UTZJ4.7A (TAPG)
	87-001-290-089		ZENER,HZS6B1L
	87-002-225-019		DIODE,DBF 40C-K10
	87-017-148-089		ZENER,HZS6A1L
MAIN C.B			
C101	87-016-043-099		CAP,E 3300-50 VR<EXCEPT 656R>
C101	87-016-055-099		CAP,E 3300-42 HI-R<656R>
C102	87-016-043-099		CAP,E 3300-50 VR<EXCEPT 656R>
C102	87-016-055-099		CAP,E 3300-42 HI-R<656R>
C104	87-010-237-089		CAP,E 1000-16
C105	87-010-381-089		CAP,E 330-16 SME
C106	87-015-914-089		CAP,E 47-100
C106	87-016-285-089		CAP,E 47-100 SME
C107	87-010-407-089		CAP,E 33-50 SME<EXCEPT 656R>
C107	87-010-260-089		CAP,E 47-25 SME<656R>
C108	87-010-407-089		CAP,E 33-50 SME<EXCEPT 656R>
C108	87-010-260-089		CAP,E 47-25 SME<656R>
C109	87-010-263-089		CAP,E 100-10 SME 5X11
C112	87-010-237-089		CAP,E 1000-16
C113	87-010-403-089		CAP,E 3.3-50 SME
C115	87-012-368-089		C-CAP,S 0.1-50F
C116	87-012-140-089		C-CAP,S 470P-50 CH
C118	87-012-368-089		C-CAP,S 0.1-50F
C119	87-010-404-089		CAP,E 4.7-50 SME
C120	87-010-404-089		CAP,E 4.7-50 SME
C152	87-010-374-089		CAP,E 47-10
C161	87-010-410-089		CAP,E 330-50 SME<EXCEPT 656R>
C161	87-010-408-089		CAP,E 47-50 SME<656R>
C162	87-010-404-089		CAP,E 4.7-50 SME
C163	87-010-404-089		CAP,E 4.7-50 SME
C171	87-010-453-099		CAP,ELECT 4700-25V SME
C172	87-010-453-099		CAP,E 4700-25V SME<EXCEPT 656R>
C173	87-012-368-089		C-CAP S 0.1-50F
C174	87-012-368-089		C-CAP S 0.1-50F
C175	87-018-209-089		CAP,TC-U 0.1-50 F
C176	87-018-209-089		CAP,TC-U 0.1-50 F
C177	87-018-209-089		CAP,TC-U 0.1-50 F
C191	87-010-213-089		C-CAP,S 0.015-50 B
C192	87-010-213-089		C-CAP,S 0.015-50 B
C251	87-010-404-089		CAP,E 4.7-50 SME
C252	87-010-404-089		CAP,E 4.7-50 SME
C253	87-010-182-089		C-CAP,S 2200P-50 B
C254	87-010-182-089		C-CAP,S 2200P-50 B
C255	87-010-406-089		CAP,E 22-50 SME
C256	87-010-406-089		CAP,E 22-50 SME
C257	87-010-545-089		CAP,E 0.22-50 SME<U>
C257	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT U>
C258	87-010-545-089		CAP,E 0.22-50 SME<U>
C258	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT U>
C259	87-010-260-089		CAP,E 47-25 SME
C260	87-010-260-089		CAP,E 47-25 SME
C263	87-010-154-089		C-CAP,S 10P-50 CH
C264	87-010-154-089		C-CAP,S 10P-50 CH
C265	87-010-260-089		CAP,E 47-25 SME
C266	87-010-260-089		CAP,E 47-25 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
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
C270	87-012-361-089		C-CAP,S 0.056-25 Y
C273	87-010-186-089		C-CAP,S 4700P-50 B<656R,K,EE,EZ>
C274	87-010-196-089		C-CAP,S 0.1-25 F
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<656R,K,EE,EZ>
C303	87-010-546-089		CAP,E 0.33-50 SME<HE,HK,HR,LH,U>
C304	87-010-544-089		CAP,E 0.1-50<656R,K,EE,EZ>
C304	87-010-546-089		CAP,E 0.33-50 SME<HE,HK,HR,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 0.015-50 B<EXCEPT LH,U>
C307	87-010-198-089		C-CAP,S 0.022-25 B<LH,U>
C308	87-010-213-089		C-CAP,S 0.015-50 B<EXCEPT LH,U>
C308	87-010-198-089		C-CAP,S 0.022-25 B<LH,U>
C310	87-010-196-089		C-CAP,S 0.1-25 F
C313	87-010-178-089		C-CAP,S 1000P-50B<HE,HK,HR,LH,U>
C314	87-010-178-089		C-CAP,S 1000P-50B<HE,HK,HR,LH,U>
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	87-012-156-089		C-CAP,S 220P-50 CH
C356	87-012-156-089		C-CAP,S 220P-50 CH
C357	87-012-156-089		C-CAP,S 220P-50 CH
C383	87-012-154-089		C-CAP,S 150P-50CH<656R,K,EE,U,EZ>
C384	87-012-154-089		C-CAP,S 150P-50CH<656R,K,EE,U,EZ>
C401	87-010-401-089		CAP,E 1-50 SME<EXCEPT 656R>
C402	87-010-405-089		CAP,E 10-50 SME<EXCEPT 656R>
C403	87-010-101-089		CAP,E 220-16 SME<EXCEPT 656R>
C405	87-010-178-089		C-CAP,S 1000P-50 B<EXCEPT 656R>
C406	87-010-178-089		C-CAP,S 1000P-50 B<EXCEPT 656R>
C407	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT 656R>
C408	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT 656R>
C409	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT 656R>
C410	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT 656R>
C411	87-010-177-089		C-CAP,S 820P-50 SL<EXCEPT 656R>
C412	87-010-177-089		C-CAP,S 820P-50 SL<EXCEPT 656R>
C413	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT 656R>
C414	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT 656R>
C415	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT 656R>
C416	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT 656R>
C417	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT 656R>
C418	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT 656R>
C419	87-010-184-089		C-CAP,S 3300P-50 B<EXCEPT 656R>
C420	87-010-184-089		C-CAP,S 3300P-50 B<EXCEPT 656R>
C421	87-012-155-089		C-CAP,S 180P-50 CH<EXCEPT 656R>
C422	87-012-155-089		C-CAP,S 180P-50 CH<EXCEPT 656R>
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<EXCEPT 656R>
C431	87-010-401-089		CAP,E 1-50 SME<EXCEPT 656R>
C432	87-010-196-089		C-CAP,S 0.1-25 F
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	87-010-546-089		CAP,E 0.33-50 SME<EXCEPT 656R>
C505	87-010-405-089		CAP,E 10-50 SME<656R>
C506	87-010-546-089		CAP,E 0.33-50 SME<EXCEPT 656R>
C506	87-010-405-089		CAP,E 10-50 SME<656R>
C507	87-010-196-089		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
C670	87-010-178-089		C-CAP,S 1000P-50 B<656R,K,EE,EZ>
C671	87-012-156-089		C-CAP,S 220P-50 CH<656R,K,EE,EZ>
C672	87-010-405-089		CAP,E 10-50 SME<656R,K,EE,EZ>
C673	87-010-197-089		C-CAP,S 0.01-25 B<656R,K,EE,EZ>
C674	87-010-248-089		CAP,E 220-10 SME<656R,K,EE,EZ>
C675	87-010-315-089		C-CAP,S 27P-50 CH<656R,K,EE,EZ>
C676	87-010-317-089		C-CAP,S 39P-50 CH<656R,K,EE,EZ>
C678	87-010-196-089		C-CAP,S 0.1-25 F<656R,K,EE,EZ>
C679	87-010-182-089		C-CAP,S 2200P-50 B<656R,K,EE,EZ>
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	87-010-154-089		C-CAP,S 10P-50 CH<HE,HK,HR>
C722	87-010-311-089		C-CAP,S 12P-50CH<EXCEPT HE,HK,HR>
C723	87-010-178-089		C-CAP,S 1000P-50 B
C725	87-010-178-089		C-CAP,S 1000P-50 B
C727	87-010-196-089		C-CAP,S 0.1-25 F
C728	87-010-248-089		CAP,E 220-10 SME
C755	87-010-196-089		C-CAP,S 0.1-25 F
C756	87-010-196-089		C-CAP,S 0.1-25 F
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	87-010-197-089		C-CAP,S 0.01-25B<EXCEPT HE,HK,HR>
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
C783	87-010-184-089		C-CAP,S 3300P-50 B<656R,K,EE,EZ>
C784	87-010-184-089		C-CAP,S 3300P-50 B<656R,K,EE,EZ>
C787	87-010-184-089		C-CAP,S 3300P-50 B<HE,HK,HR,LH,U>
C788	87-010-184-089		C-CAP,S 3300P-50 B<HE,HK,HR,LH,U>
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-50B<HE,HK,HR,LH,U>
C792	87-010-182-089		C-CAP,S 2200P-50 B<656R,K,EE,EZ>
C793	87-010-189-089		C-CAP,S 8200P-50 B
C794	87-010-408-089		CAP,E 47-50 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
C798	87-010-196-089		C-CAP,S 0.1-25F<EXCEPT HE,HK,HR>
C799	87-010-186-089		C-CAP,S 4700P-50 B<656R,K,EE,EZ>
C800	87-010-186-089		C-CAP,S 4700P-50 B<656R,K,EE,EZ>
C801	87-018-134-089		CAP,TC-U 0.01-16Y<HE,HK,HR,LH,U>
C802	87-018-134-089		CAP,TC-U 0.01-16 Y
C814	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
C823	87-010-197-089		C-CAP,S 0.01-25 B
C824	87-010-196-089		C-CAP,S 0.1-25 F
C825	87-010-196-089		C-CAP,S 0.1-25 F
C830	87-018-134-089		CAP,TC-U 0.01-16 Y
C831	87-010-197-089		C-CAP,S 0.01-25 B
C840	87-010-197-089		C-CAP,S 0.01-25 B
C841	87-010-196-089		C-CAP,S 0.1-25 F
C842	87-010-196-089		C-CAP,S 0.1-25 F
C850	87-018-209-089		CAP,TC-U 0.1-50F<EXCEPT HE,HK,HR>
C852	87-018-209-089		CAP,TC-U 0.1-50F<EXCEPT HE,HK,HR>
C941	87-010-197-089		C-CAP,S 0.01-25 B<656R,K,EE,EZ>
C942	87-010-311-089		C-CAP,S 12P-50 CH<656R,K,EE,EZ>

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C944	87-010-154-089		C-CAP,S 10P-50 CH<656R,K,EE,EZ>
C945	87-014-050-089		CAP,PP 510P-100 J<656R,K,EE,EZ>
C946	87-010-401-089		CAP,E 1-50 SME
C947	87-010-197-089		C-CAP,S 0.01-25 B
C948	87-010-196-089		C-CAP,S 0.1-25 F<656R,K,EE,EZ>
C949	87-010-197-089		C-CAP,S 0.01-25B<EXCEPT HE,HK,HR>
C950	87-010-322-089		C-CAP,S100P-50CH<EXCEPT HE,HK,HR>
C951	87-010-401-089		CAP,E 1-50 SME<EXCEPT HE,HK,HR>
C952	87-010-311-089		C-CAP,S 12P-50 CH<LH,U>
C983	87-010-544-089		CAP,E 0.1-50<EXCEPT HE,HK,HR>
C987	87-010-196-089		C-CAP,S 0.1-25 F
C988	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT LH,U>
C990	87-010-197-089		C-CAP,S 0.01-25B<EXCEPT HE,HK,HR>
C995	87-010-197-089		C-CAP,S 0.01-25 B
CF801	87-008-423-019		CF,SFE10.7 MS3G-A<656R,K,EE,EZ>
CF801	87-008-261-019		FLTR,SFE10.7MA5-A<HE,HK,HR,LH,U>
CF802	82-785-747-019		CF,MS2 GHY,R<656R,K,EE,EZ>
CF802	87-008-261-019		FLTR,SFE10.7MA5-A<HE,HK,HR,LH,U>
FFE801	85-NF5-605-019		FE PACK 2 EX<HE,HK,HR,LH,U>
FFE801	84-CF3-646-019		FE PACK 4<656R,K,EE,EZ>
J251	87-033-226-019		TERMINAL,SP 4P (JT)
J252	87-099-678-019		JACK,6.3 W/S BLK<656R>
J252	87-099-794-019		JACK,6.3 W/S BLK<EXCEPT 656R>
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,HK,HR,LH,U>
J801	87-033-230-019		TERM,ANT AJ-2016<656R,K,EE,EZ>
L192	87-005-366-019		COIL,1UH
L193	87-005-366-019		COIL,1UH
L671	87-003-098-089		COIL,2.2UH<656R,K,EE,EZ>
L701	81-631-643-019		COIL 1 POLE MPX<HE,HK,HR,LH,U>
L701	83-DS3-614-019		FLTR,MPX 85K<656R,K,EE,EZ>
L702	81-631-643-019		COIL 1 POLE MPX<HE,HK,HR,LH,U>
L702	83-DS3-614-019		FLTR,MPX 85K<656R,K,EE,EZ>
L741	87-006-253-019		COIL,FM DET N
L742	81-631-612-019		CFMT 450A<HE,HK,HR>
L742	82-NT1-659-019		FLTR,CFAZ450 2NT<EXCEPT HE,HK,HR>
L770	87-003-102-089		COIL,10UH
L832	87-003-098-089		COIL,2.2UH
L941	87-006-208-019		COIL, ANT LW<656R,K,EE,EZ>
L942	87-007-305-019		COIL OSC LW S<656R,K,EE,EZ>
L981	81-MX4-620-019		AM PACK 3,S<LH,U>
L981	81-MX4-619-019		AM PACK 4<656R,K,EE,EZ>
R105	87-022-661-089		RES,M/F 0.22-2W J<U>
R105	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
R106	87-022-661-089		RES,M/F 0.22-2W J<U>
R106	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
R283	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
R290	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
R295	87-022-394-089		RES,NF 0.47-1/4W J
RY101	87-045-361-019		RELAY,DH12D2-OS(M)-2
SFR722	87-024-171-089		SFR 4.7K DIA6 V
TC701	87-011-253-089		TRIMER,30P LAR
TC942	87-011-253-089		TRIMER,30P LAR<656R,K,EE,EZ>
VR351	82-NF5-660-019		VR 50K BX2 RK14K 12A
W101	81-MX4-647-019		F-CABEL,7P-2.5
X670	89-KT1-608-010		X,TAL 4.332MHZ<656R,K,EE,EZ>
X703	84-508-618-019		VIB,CER CSB 456 F/5
X721	87-030-163-019		VIB,XTAL 7.2MHZ<EXCEPT HE,HK,HR>
X721	87-030-278-089		VIB,XTAL 7.2MHZ,S<HE,HK,HR>
X722	87-030-354-019		VIB,CF BFU450C<HE,HK,HR>

FRONT C.B

C201	87-010-408-049		CAP-E 47-50 SME
C202	87-015-698-049		CAP,E 4.7-50 7L
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
C301	87-010-196-089		C-CAP,S 0.1-25 F
C401	87-010-196-089		C-CAP,S 0.1-25 F
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
C405	87-010-322-089		C-CAP,S 100P-50 CH
C409	87-010-196-089		C-CAP,S 0.1-25 F
C501	87-010-060-049		CAP,E 100-16 7L
C601	87-010-405-049		CAP,E 10-50 SME
C602	87-010-176-089		C-CAP,S 680P-50 SL
C603	87-010-196-089		C-CAP,S 0.1-25 F
C605	87-010-319-089		C-CAP,S 56P-50 CH
C606	87-012-142-089		C-CAP,S 0.33-16 F
C607	87-010-196-089		C-CAP,S 0.1-25 F
C608	87-010-322-089		C-CAP,S 100P-50 CH
C609	87-010-545-049		CAP E 0.22-50 SME
C610	87-012-155-089		C-CAP,S 180P-50 CH
C611	87-010-406-049		CAP,E 22-50 SME
C614	87-010-248-049		CAP,E 220-10 SME
C615	87-010-401-049		CAP,E 1-50 SME
C646	87-010-196-089		C-CAP,S 0.1-25 F
C655	87-010-404-089		CAP,E 4.7-50 SME<656R>
C656	87-010-404-089		CAP,E 4.7-50 SME<656R>
C901	87-015-681-049		CAP,E 10-16 7L
C902	87-010-196-089		C-CAP,S 0.1-25 F
C903	87-010-180-089		C-CAP,S 1500P-50 B
C904	87-010-196-089		C-CAP,S 0.1-25 F
C906	87-012-155-089		C-CAP,S 180P-50 CH
C907	87-010-150-089		C-CAP,S 6P-50 CH
C908	87-010-178-089		C-CAP,S 1000P-50 B
FC1	85-912-191-219		FF-CABLE,12P 1.25<EXCEPT 656R>
FL901	85-NT3-652-019		FL,BJ371GK
J601	82-NF7-630-019		JACK,3.5 MO
J621	82-NF7-630-019		JACK,3.5 MO
L901	87-007-339-019		COIL,CLOCK 5.76MHZ
LED301	87-017-297-080		LED,SEL1550CM TP7
LED302	87-017-297-080		LED,SEL1550CM TP7<EXCEPT K,EE,EZ>
LED303	87-017-297-080		LED,SEL1550CM TP7
LED304	87-017-297-080		LED,SEL1550CM TP7
LED305	87-017-297-080		LED,SEL1550CM TP7
LED306	87-017-297-080		LED,SEL1550CM TP7
LED307	87-017-297-080		LED,SEL1550CM TP7
LED308	87-017-297-080		LED,SEL1550CM TP7
LED309	87-017-297-080		LED,SEL1550CM TP7
LED310	87-017-297-080		LED,SEL1550CM TP7
LED311	87-017-297-080		LED,SEL1550CM TP7
LED312	87-017-297-080		LED,SEL1550CM TP7
LED313	87-070-012-080		LED,SEL1213C TP7
LED314	87-070-011-080		LED,SEL1413E TP7
LED315	87-070-012-080		LED,SEL1213C TP7
LED316	87-070-011-080		LED,SEL1413E TP7
LED317	87-070-012-080		LED,SEL1213C TP7
LED318	87-070-011-080		LED,SEL1413E TP7
LED319	87-070-012-080		LED,SEL1213C TP7
LED320	87-070-011-080		LED,SEL1413E TP7
S901	87-036-215-089		SW,TACT EVQ21404M
S902	87-036-215-089		SW,TACT EVQ21404M
S903	87-036-215-089		SW,TACT EVQ21404M
S904	87-036-215-089		SW,TACT EVQ21404M
S905	87-036-215-089		SW,TACT EVQ21404M
S906	87-036-215-089		SW,TACT EVQ21404M
S907	87-036-215-089		SW,TACT EVQ21404M
S908	87-036-215-089		SW,TACT EVQ21404M
S909	87-036-215-089		SW,TACT EVQ21404M
S910	87-036-215-089		SW,TACT EVQ21404M
S911	87-036-215-089		SW,TACT EVQ21404M
S912	87-036-215-089		SW,TACT EVQ21404M
S913	87-036-215-089		SW,TACT EVQ21404M

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
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
VR600	85-NT3-655-019		VR,100KW<656R>
VR600	83-NM1-627-019		VR,10KB RK11K1130<EXCEPT 656R>
VR601	81-MX4-637-019		VR 10KA RK11K1130

VOL C.B

C105	87-010-401-049		CAP,E 1-50 SME
C106	87-010-401-049		CAP,E 1-50 SME
C107	87-010-194-089		C-CAP,S 0.047-25 F
C108	87-010-194-089		C-CAP,S 0.047-25 F
C109	87-010-195-089		C-CAP,S 0.068-25 F
C110	87-010-195-089		C-CAP,S 0.068-25 F
C111	87-010-186-089		C-CAP,S 4700P-50 B
C112	87-010-186-089		C-CAP,S 4700P-50 B
C113	87-010-260-049		CAP,E 47-25 SME
C114	87-010-196-089		C-CAP,S 0.1-25 F
C115	87-010-196-089		C-CAP,S 0.1-25 F
C116	87-010-198-089		C-CAP,S 0.022-25 B
C117	87-010-402-049		CAP E2.2-50 SME
C118	87-010-402-049		CAP E2.2-50 SME
C119	87-016-073-089		CAP,E 1-50 FX
C120	87-016-073-089		CAP,E 1-50 FX
C121	87-010-401-049		CAP,E 1-50 SME
C122	87-010-401-049		CAP,E 1-50 SME
C123	87-010-403-049		CAP,E 3.3-50 SME
C124	87-010-403-049		CAP,E 3.3-50 SME
C125	87-010-381-089		CAP,E 330-16 SME
C126	87-010-401-049		CAP,E 1-50 SME
C127	87-010-401-049		CAP,E 1-50 SME
C128	87-010-400-049		CAP,E 0.47-50
C129	87-010-401-049		CAP,E 1-50 SME
C130	87-010-401-049		CAP,E 1-50 SME
C131	87-010-384-089		CAP,E 100-25 SME
C132	87-010-402-049		CAP E2.2-50 SME<EXCEPT 656R>
C133	87-010-402-049		CAP E2.2-50 SME<EXCEPT 656R>
C134	87-010-384-089		CAP,E 100-25 SME
C135	87-010-402-049		CAP E2.2-50 SME<EXCEPT 656R>
C136	87-010-402-049		CAP E2.2-50 SME<EXCEPT 656R>
C137	87-010-260-049		CAP,E 47-25 SME
FC2	85-NT3-642-019		CABLE FFC,8P-1.25<EXCEPT 656R>
VR101	83-NT4-635-019		VOL,50KBX2(M)<656R>
VR101	85-NT3-660-019		VR,50KBX4<EXCEPT 656R>

SW C.B<HE,HK,HR>

C951	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C952	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C953	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C954	87-010-263-089		CAP,E 100-10 SME 5X11<HE,HK,HR>
C955	87-010-154-089		C-CAP,S 10P-50 CH<HE,HK,HR>
C956	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C957	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C958	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C959	87-018-209-089		CAP,TC-U 0.1-50 F<HE,HK,HR>
C961	87-014-051-089		CAP,PP 560P-100 J<HE,HK,HR>
C962	87-014-073-089		CAP,PP 4700P-100 J<HE,HK,HR>
C963	87-010-311-089		C-CAP,S 12P-50 CH<HE,HK,HR>
C964	87-010-313-089		C-CAP,S 18P-50 CH<HE,HK,HR>
C965	87-010-186-089		C-CAP,S 4700P-50 B<HE,HK,HR>
C966	87-010-263-089		CAP,E 100-10 SME 5X11<HE,HK,HR>
C970	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C971	87-010-197-089		C-CAP,S 0.01-25 B<HE,HK,HR>
C974	87-010-196-089		C-CAP,S 0.1-25 F<HE,HK,HR>
C976	87-010-400-089		CAP,E 0.47-50 SME<HE,HK,HR>
D958	87-017-568-089		VARI-CAP,SVC 342 M/L<HE,HK,HR>
L951	87-006-316-019		COIL,ANT MW(SGB)<HE,HK,HR>
L952	87-006-255-019		COIL,ANT SW1(SG7)<HE,HK,HR>
L953	87-006-256-019		COIL,ANT SW2(SG7)<HE,HK,HR>
L954	87-005-372-089		COIL S 1 MH TAPG<HE,HK,HR>
L955	87-005-372-089		COIL S 1 MH TAPG<HE,HK,HR>
L956	87-007-326-019		COIL,OSC MW(SG)<HE,HK,HR>
L957	87-007-327-019		COIL,OSC SW1(SG)<HE,HK,HR>
L958	87-007-332-019		COIL,OSC SW2(SG7)<HE,HK,HR>
TC951	87-011-220-089		CAP TRIMMER 20P VCT<HE,HK,HR>
TC952	87-011-221-089		TRIMER.30P VCT51<HE,HK,HR>
TC953	87-011-221-089		TRIMER.30P VCT51<HE,HK,HR>

AC-2 C.B

⚠F102	87-026-691-089		FUSE,10A 125V<U>
⚠F103	87-026-691-089		FUSE,10A 125V<U>
⚠F106	87-026-690-089		FUSE,5A 125V<U>
⚠F107	87-026-690-089		FUSE,5A 125V<U>
⚠PR102	87-026-682-089		PR,10A 60V491<EXCEPT 656R,U>
⚠PR102	87-026-681-089		PROTECTOR,5A 60V 491<656R>
⚠PR103	87-026-682-089		PR,10A 60V491<EXCEPT 656R,U>
⚠PR103	87-026-681-089		PROTECTOR,5A 60V 491<656R>
⚠PR106	87-026-681-089		PR,5A 60V 491<EXCEPT 656R,U>
⚠PR107	87-026-681-089		PR,5A 60V 491<EXCEPT 656R,U>
⚠PT101	85-NT3-608-019		PT,5NT-3 E<K,EE,EZ>
⚠PT101	85-NT3-609-019		PT,5NT-3 EL<656R>
⚠PT101	85-NT3-606-019		PT,5NT-3 HR<HR>
⚠PT101	85-NT3-666-019		PT,5NT-3 LH<HE,HK,LH>
⚠PT101	85-NT3-607-019		PT,5NT-3 U<U>

PT C.B<HE,HK,HR,LH>

⚠	87-033-147-019		CLAMP,FUSE<HE,HK,HR,LH>
⚠F101	87-035-367-019		FUSE,3.15A 250V T E<HE,HK,HR,LH>
⚠SW101	87-036-387-019		SW,SL 1-2-3<HE,HK,HR,LH>

AC-1 C.B<656R,K,EE,U,EZ>

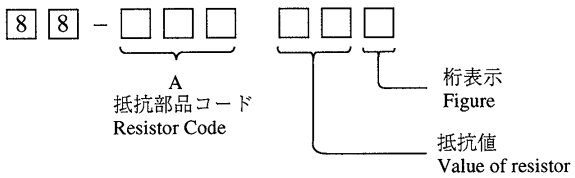
PRO/DSP C.B

C101	87-012-393-089		C-CAP,S 0.22-16,R,K
C102	87-012-393-089		C-CAP,S 0.22-16,R,K
C103	87-012-393-089		C-CAP,S 0.22-16,R,K
C104	87-010-404-089		CAP,E 4.7-50 SME
C105	87-010-404-089		CAP,E 4.7-50 SME
C106	87-012-393-089		C-CAP,S 0.22-16,R,K
C107	87-016-081-089		C-CAP,S 0.1-16 RK
C108	87-016-081-089		C-CAP,S 0.1-16 RK
C109	87-016-081-089		C-CAP,S 0.1-16 RK
C110	87-016-081-089		C-CAP,S 0.1-16 RK
C113	87-010-176-089		C-CAP,S 680P-50 SL
C117	87-010-176-089		C-CAP,S 680P-50 SL
C119	87-016-456-089		CAP,E 22-16 LLA
C120	87-010-405-089		CAP,E 10-50 SME
C123	87-010-405-089		CAP,E 10-50 SME
C124	87-010-405-089		CAP,E 10-50 SME
C125	87-010-186-089		C-CAP,S 4700P-50 B
C126	87-016-472-089		CAP,E 22-16,SME (K)
C127	87-010-405-089		CAP,E 10-50 SME
C128	87-010-405-089		CAP,E 10-50 SME
C129	87-010-384-089		CAP,E 100-25 SME
C130	87-010-248-089		CAP,E 220-10 SME
C132	87-012-394-089		C-CAP,0.68-16,R,K
C201	87-010-197-089		C-CAP,S 0.01-25 B
C202	87-010-405-089		CAP,E 10-50 SME

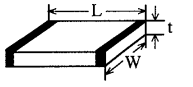
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C301	87-010-197-089		C-CAP,S 0.01-25 B
C302	87-010-402-089		CAP,E 2.2-50 SME
C303	87-010-545-089		CAP,E 0.22-50 SME
C304	87-010-405-089		CAP,E 10-50 SME
C305	87-010-318-089		C-CAP,S 47P-50 CH
C331	87-012-393-089		C-CAP,S 0.22-16,R,K
C351	87-010-401-089		CAP;E 1-50 SME
C352	87-010-196-089		C-CAP,S 0.1-25 F
C401	87-010-248-089		CAP,E 220-10 SME
C402	87-010-405-089		CAP,E 10-50 SME
C403	87-010-402-089		CAP,E 2.2-50 SME
C404	87-010-402-089		CAP,E 2.2-50 SME
C411	87-010-248-089		CAP,E 220-10 SME
C412	87-010-405-089		CAP,E 10-50 SME
C415	87-010-402-089		CAP,E 2.2-50 SME
C416	87-010-402-089		CAP,E 2.2-50 SME
C452	87-010-263-089		CAP,E 100-10 SME 5X11
C455	87-010-402-089		CAP,E 2.2-50 SME
C456	87-010-402-089		CAP,E 2.2-50 SME
C457	87-010-402-089		CAP,E 2.2-50 SME
C458	87-010-402-089		CAP,E 2.2-50 SME
C459	87-010-405-089		CAP,E 10-50 SME
C471	87-010-402-089		CAP,E 2.2-50 SME
C472	87-010-402-089		CAP,E 2.2-50 SME
C481	87-010-402-089		CAP,E 2.2-50 SME
C482	87-010-402-089		CAP,E 2.2-50 SME
C501	87-010-177-089		C-CAP,S 820P-50 SL
C502	87-010-179-089		C-CAP,S 1200P-50 B
C503	87-010-263-089		CAP,E 100-10 SME 5X11
C504	87-010-263-089		CAP,E 100-10 SME 5X11
C505	87-010-196-089		C-CAP,S 0.1-25 F
C506	87-010-318-089		C-CAP,S 47P-50 CH
C507	87-010-317-089		C-CAP,S 39P-50 CH
C508	87-010-151-089		C-CAP,S 7P-50 CH
C510	87-010-197-089		C-CAP,S 0.01-25 B
C512	87-010-179-089		C-CAP,S 1200P-50 B
C513	87-010-196-089		C-CAP,S 0.1-25 F
C516	87-010-196-089		C-CAP,S 0.1-25 F
C517	87-010-404-089		CAP,E 4.7-50 SME
C518	87-010-404-089		CAP,E 4.7-50 SME
C519	87-010-187-089		C-CAP,S 5600P-50 B
C520	87-010-182-089		C-CAP,S 2200P-50 B
C521	87-012-141-089		C-CAP,S 0.22-16 F
C524	87-010-184-089		C-CAP,S 3300P-50 B
C611	87-012-140-089		C-CAP,S 470P-50 CH
C612	87-012-140-089		C-CAP,S 470P-50 CH
C613	87-010-402-089		CAP,E 2.2-50 SME
C614	87-010-402-089		CAP,E 2.2-50 SME
C615	87-010-194-089		C-CAP,S 0.047-25 F
C616	87-010-405-089		CAP,E 10-50 SME
C617	87-010-405-089		CAP,E 10-50 SME
C621	87-010-408-089		CAP,E 47-50 SME
C622	87-010-147-089		C-CAP,S 3P-50 CH
C623	87-010-147-089		C-CAP,S 3P-50 CH
C631	87-010-993-089		C-CAP,S 0.056-25 B
C632	87-010-993-089		C-CAP,S 0.056-25 B
C633	87-010-196-089		C-CAP,S 0.1-25 F
C634	87-010-196-089		C-CAP,S 0.1-25 F
C651	87-016-369-089		C-CAP,S 0.033-25 B<656R,K,EE,EZ>
C652	87-016-369-089		C-CAP,S 0.033-25 B<656R,K,EE,EZ>
C653	87-010-197-089		C-CAP,S 0.01-25 B
C681	87-010-197-089		C-CAP,S 0.01-25 B<656R,K,EE,EZ>
C720	87-010-398-099		CAP,E 2200-35V
C721	87-010-398-099		CAP,E 2200-35V
C722	87-012-369-089		C-CAP,S,0.047-50 F
C723	87-012-369-089		C-CAP,S,0.047-50 F
C725	87-010-197-089		C-CAP,S 0.01-25 B
J101	87-099-803-019		JACK,PIN 3P OWR
L501	87-005-487-089		COIL,150UH J FLR50
L601	87-003-383-019		COIL, 1UH-S<656R,K,EE,EZ>
L602	87-003-383-019		COIL, 1UH-S<656R,K,EE,EZ>
R117	87-025-407-089		RES,M/F 100K-1/8W
R703	87-022-050-089		RESIS METAL 1W-0.22J
R708	87-022-050-089		RESIS METAL 1W-0.22J

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

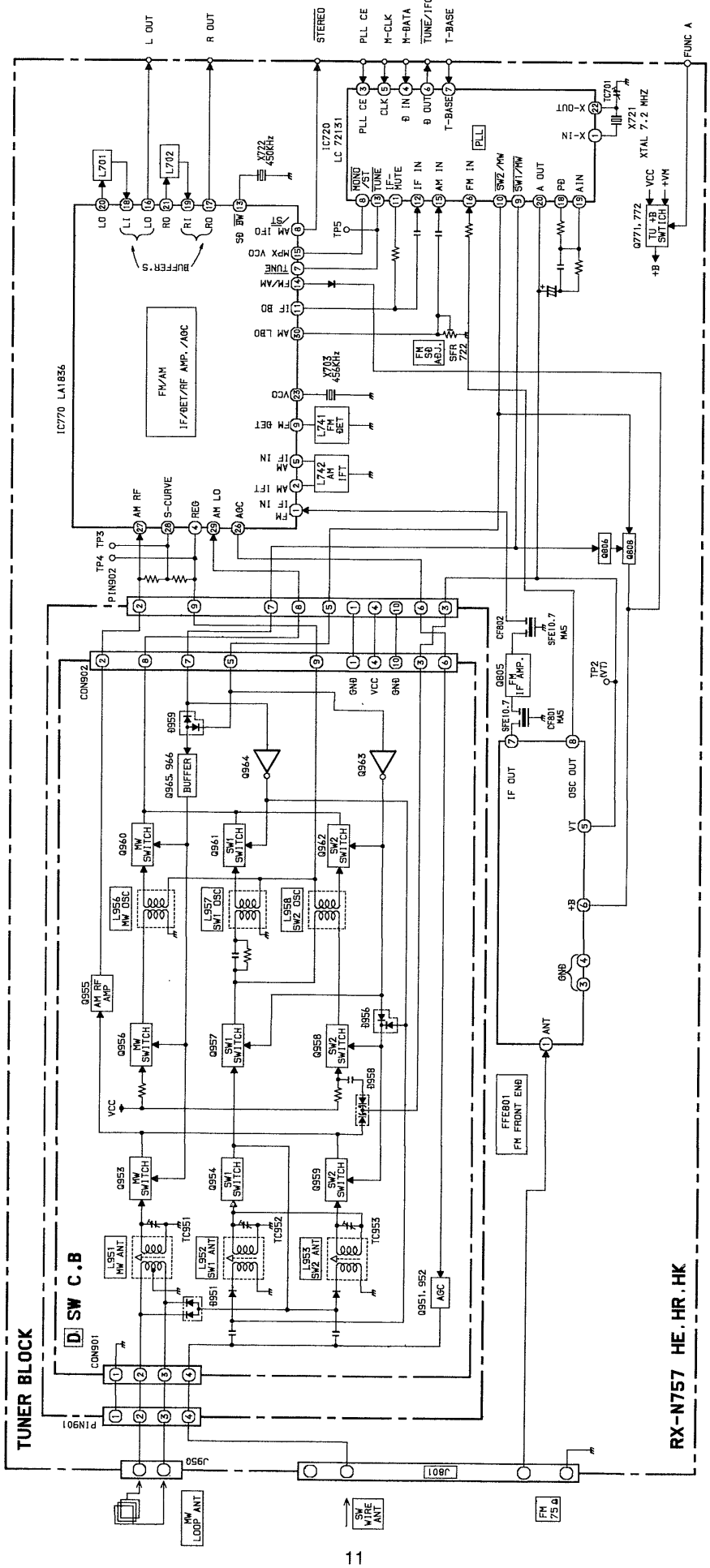
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coading



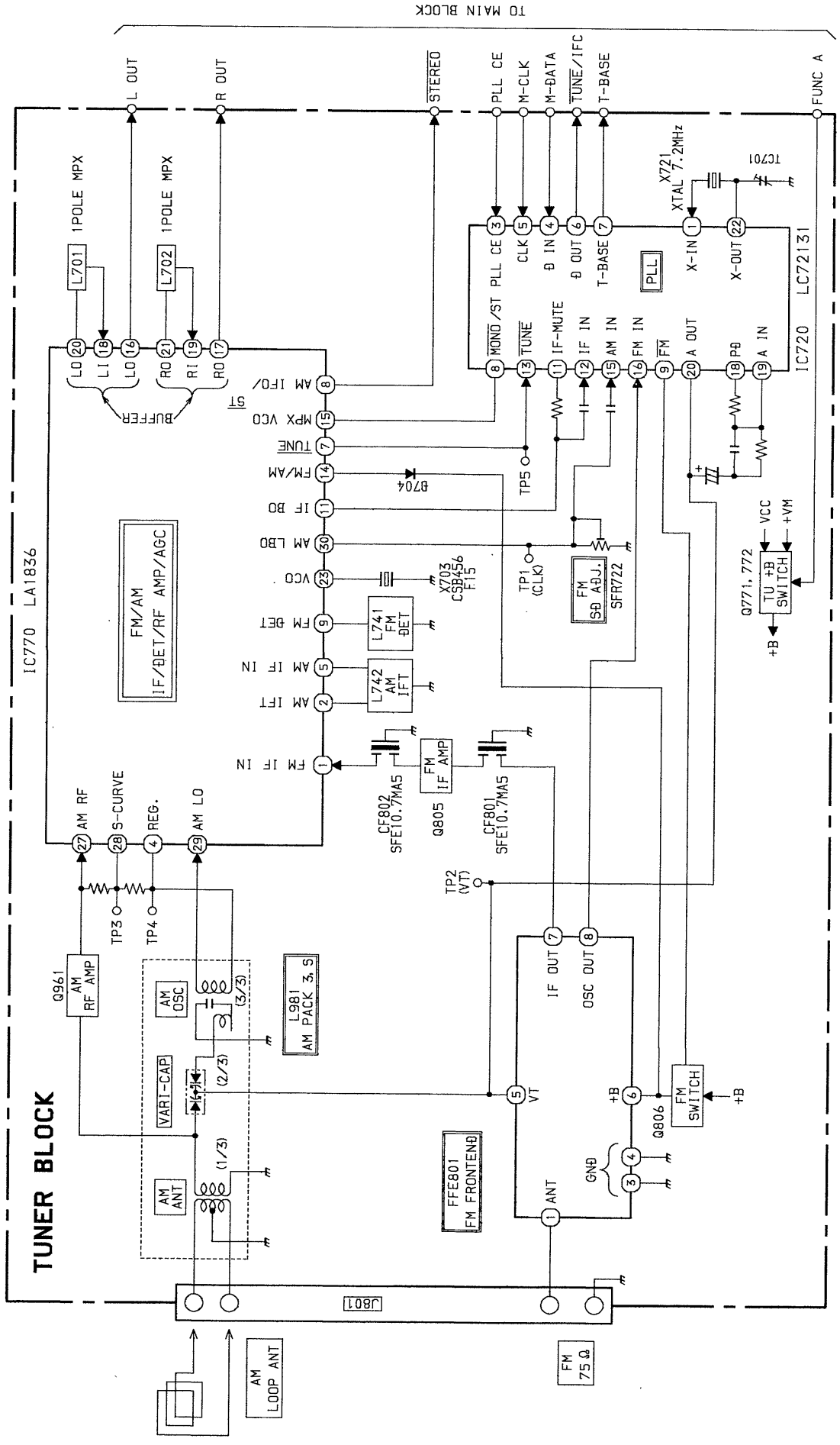
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form／外形	L	W	t	Resistor Code: A 抵抗コード : A
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	3216	±5%	CJ		3.2	1.6	0.5 ～0.7	128

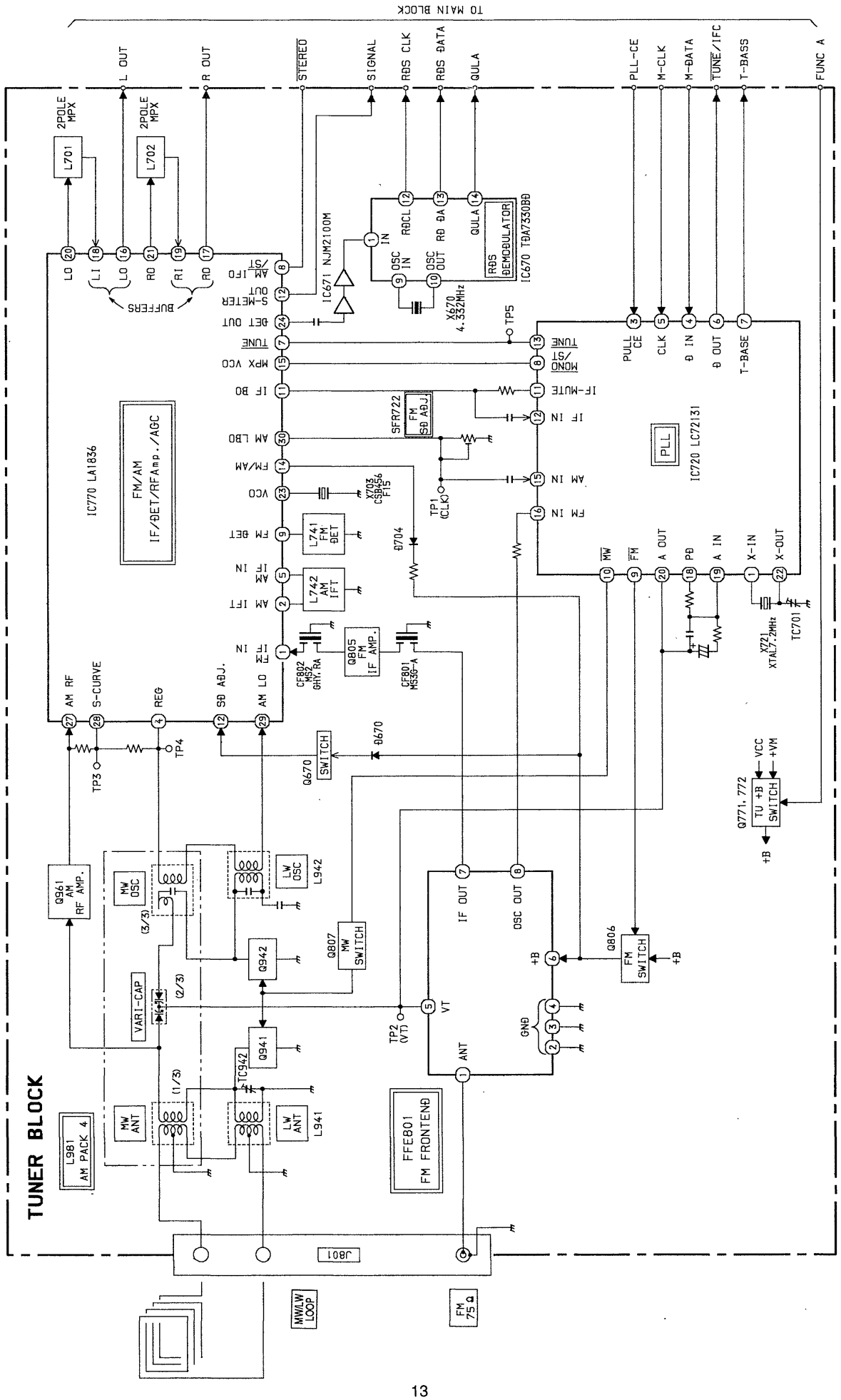
BLOCK DIAGRAM-1 (TUNER: HE, HR, HK)



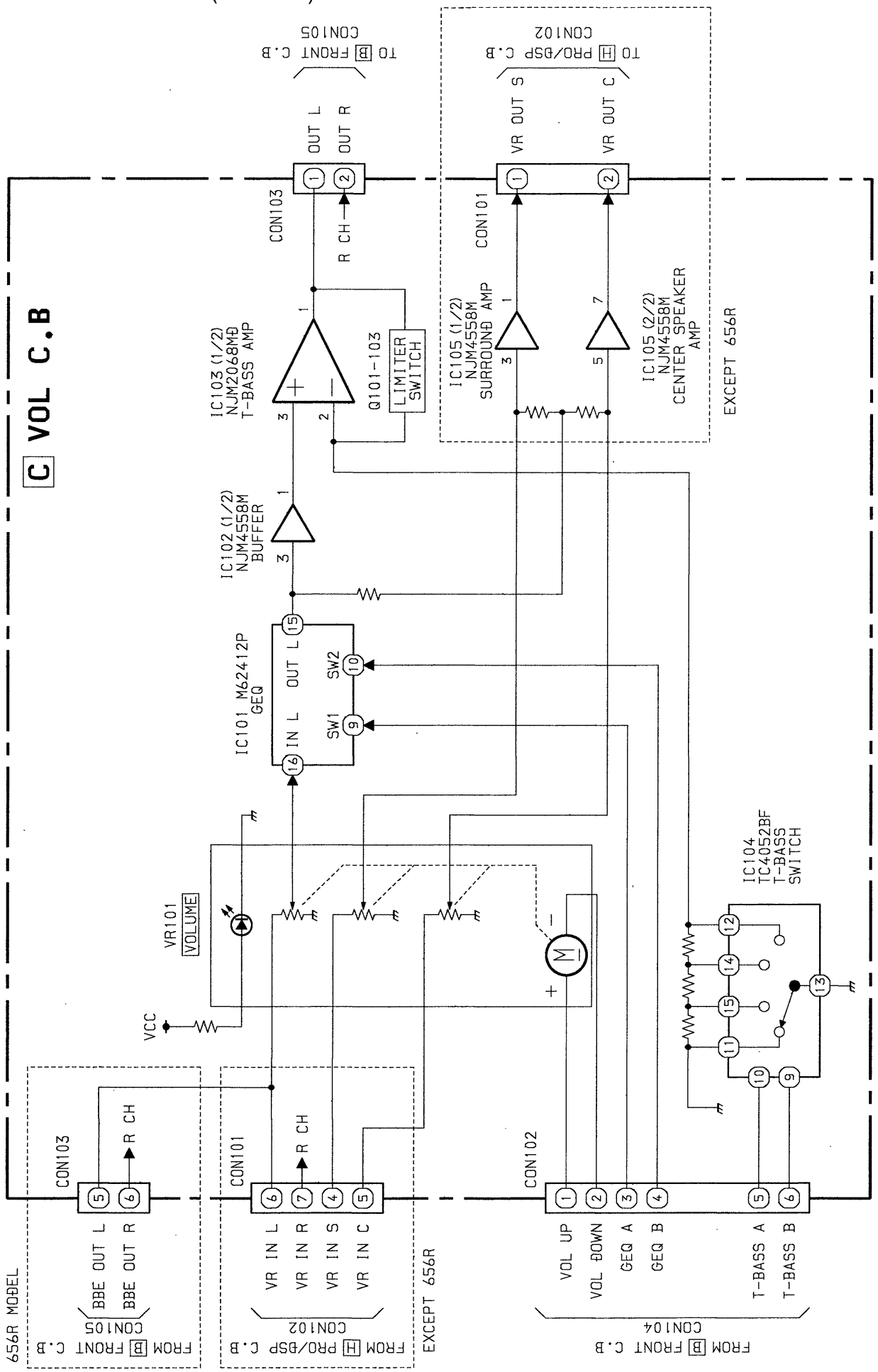
BLOCK DIAGRAM-2 (TUNER: LH, U)



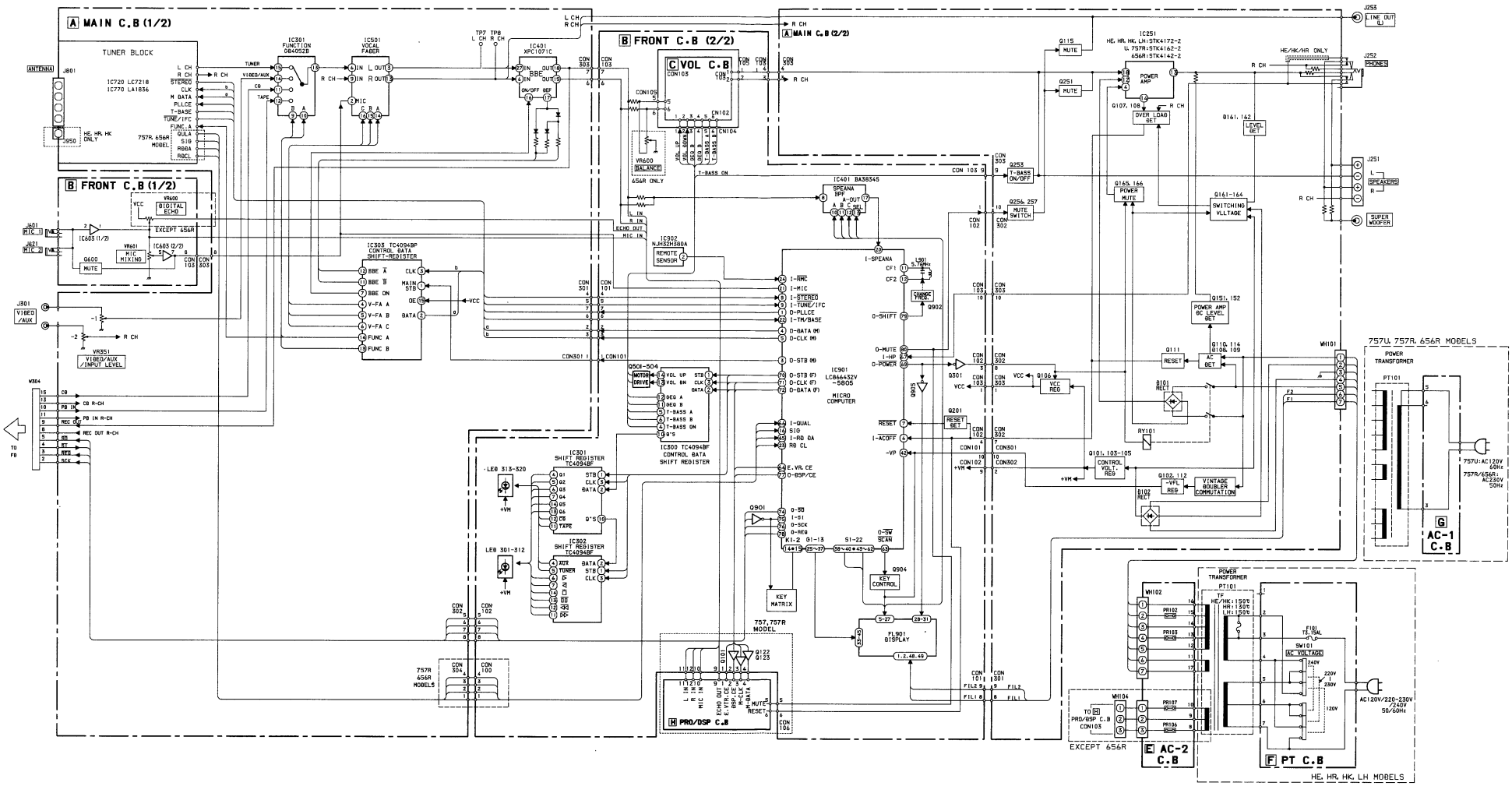
BLOCK DIAGRAM-3 (TUNER: 757R/656R)



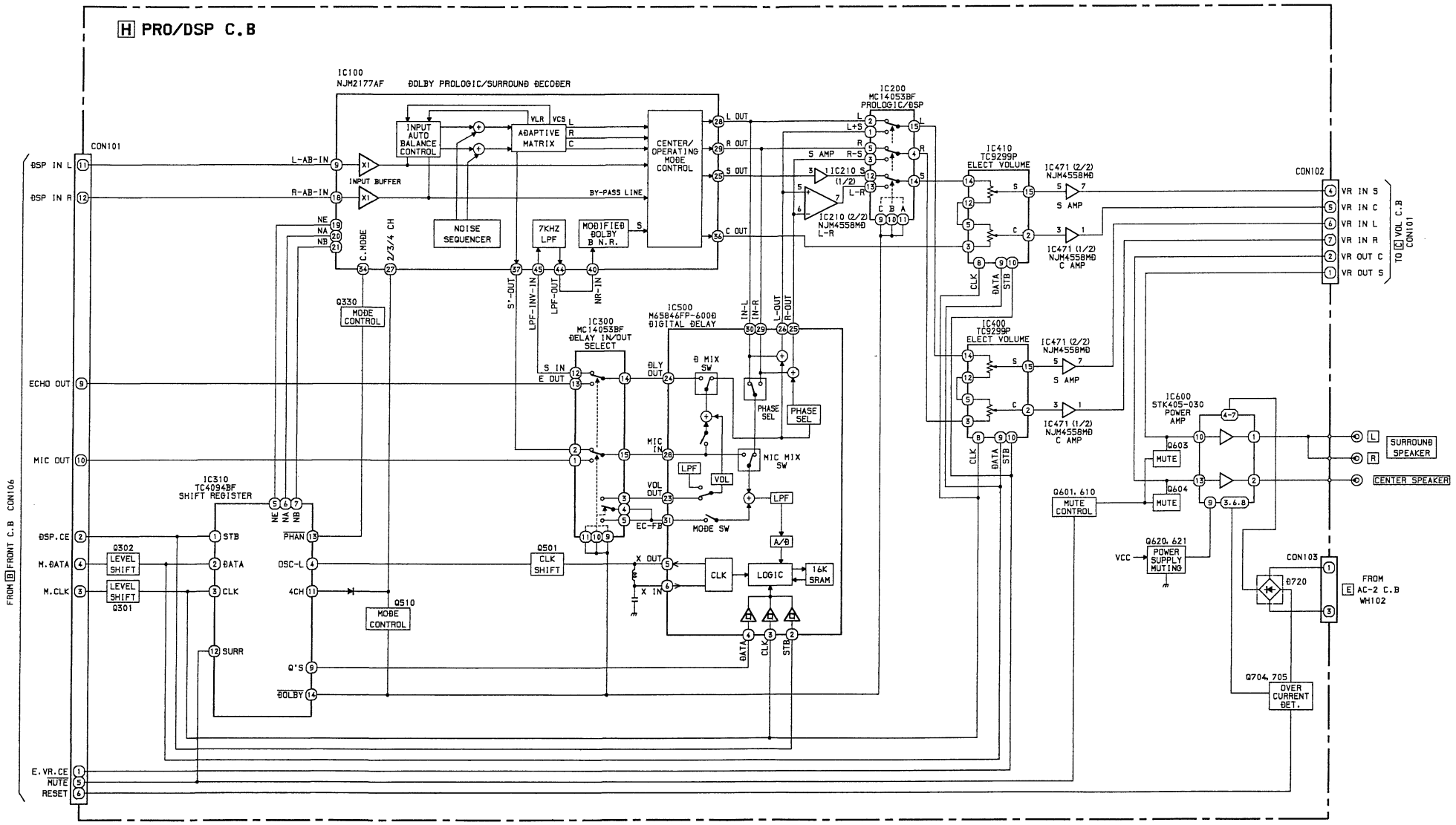
BLOCK DIAGRAM-4 (VOLUME)

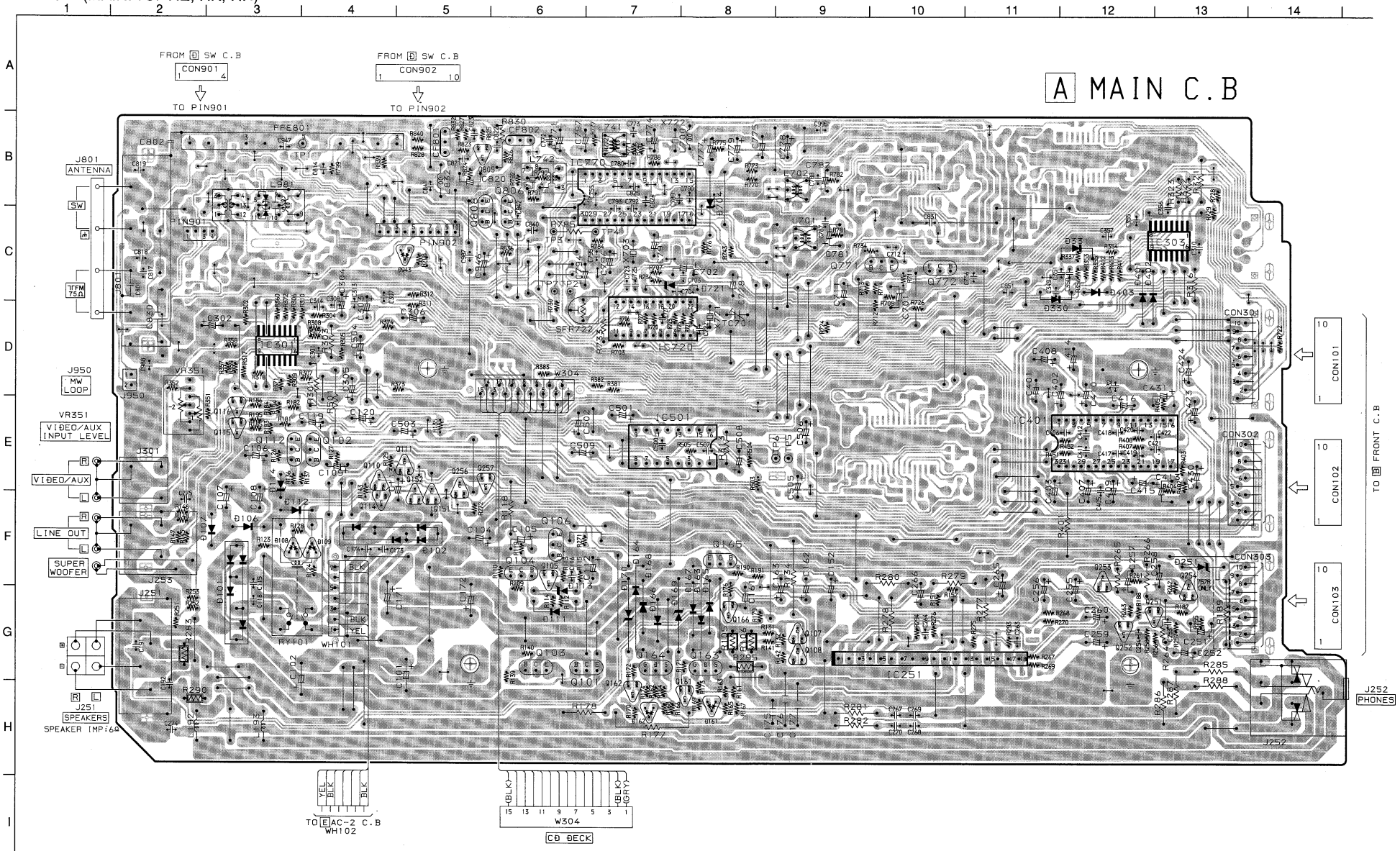


BLOCK DIAGRAM-5 (MAIN)

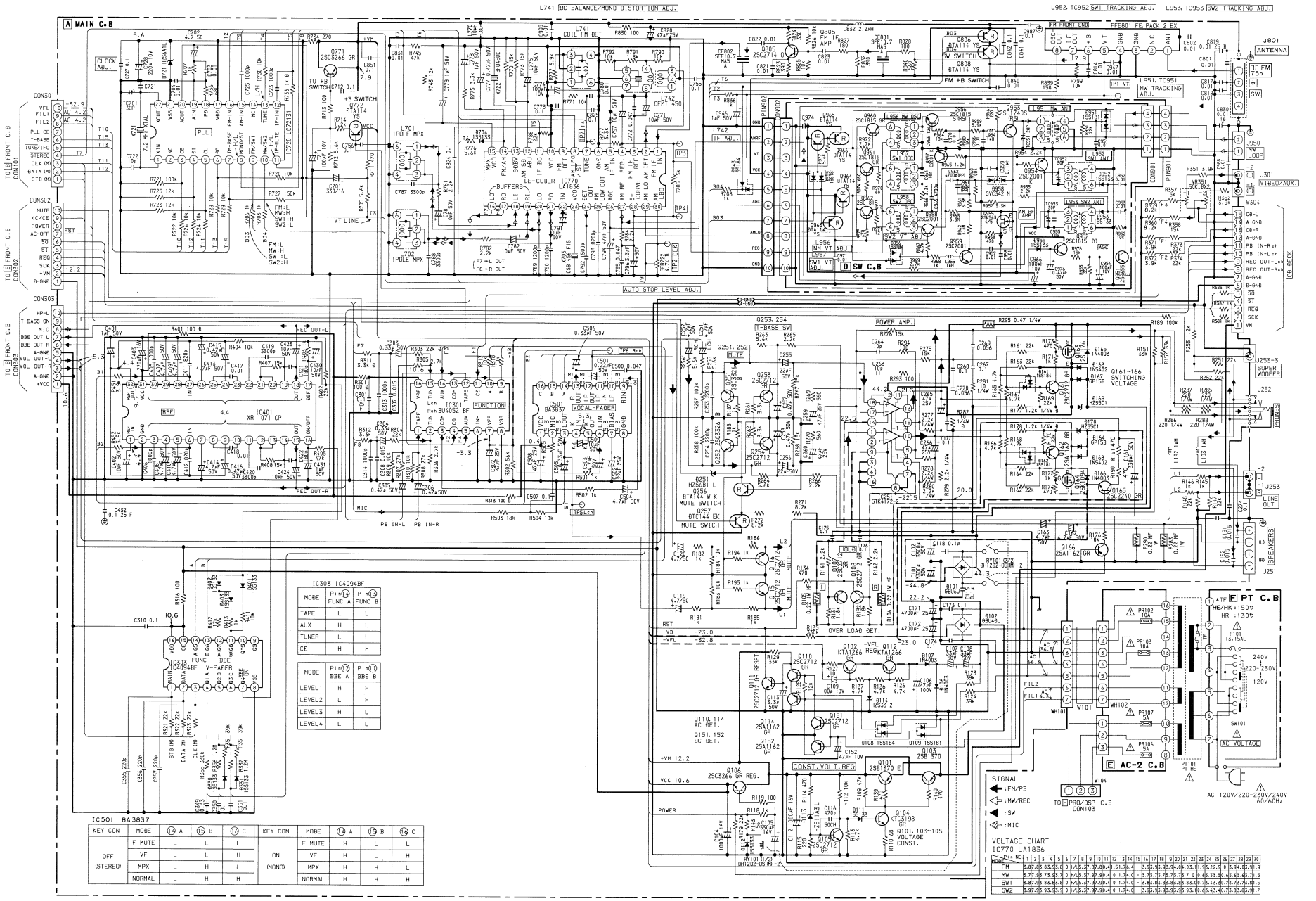


BLOCK DIAGRAM-6 (PRO ／ DSP: 757, 757R MODELS)

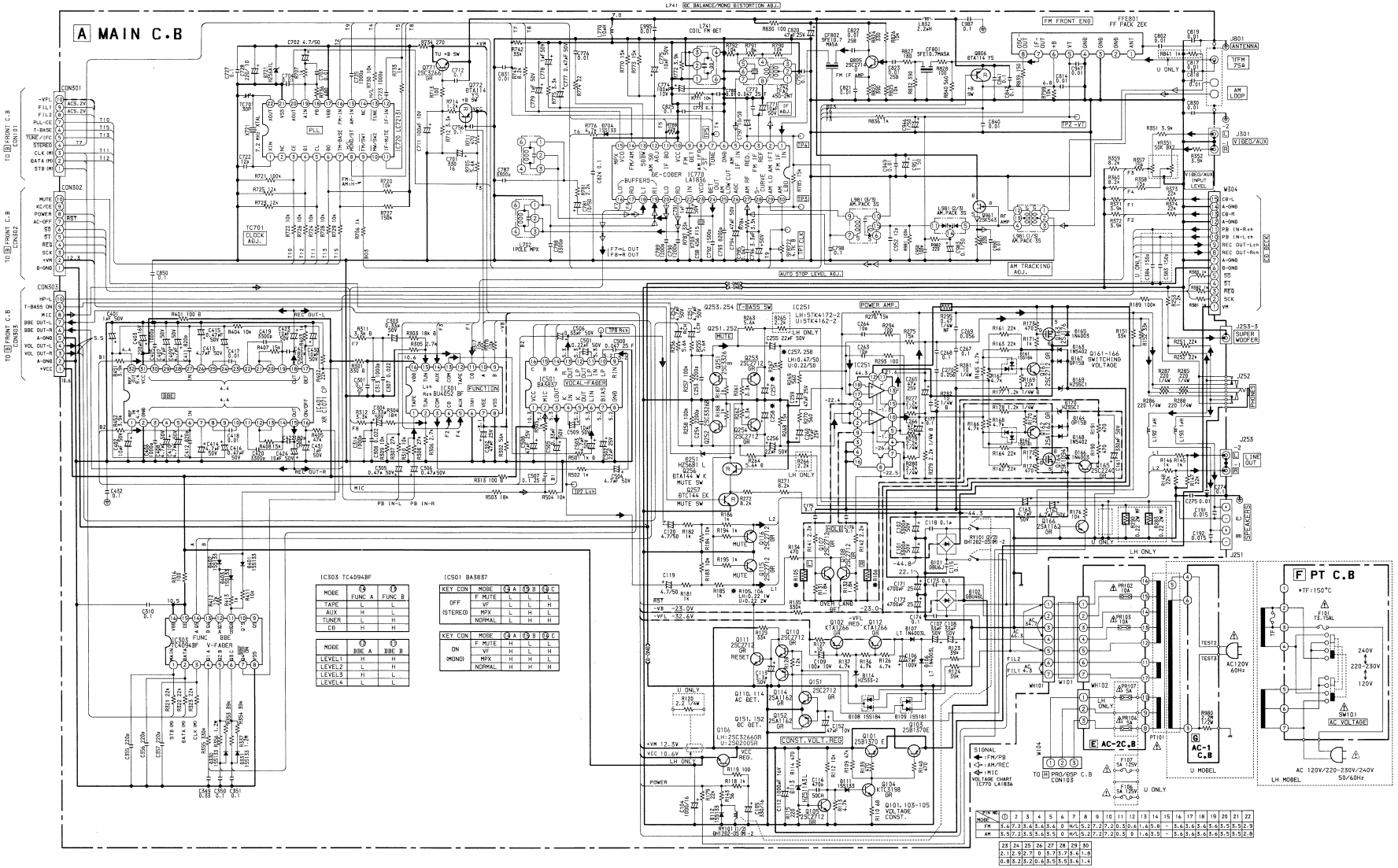



A MAIN C.B
FROM D SW C.B
CON901
TO PIN901
FROM D SW C.B
CON902
TO PIN902
J801
ANTENNA
SW
TFM 75A
J950
MW LOOP
VR351
VIDEO/AUX INPUT LEVEL
J301
VIDEO/AUX
LINE OUT
SUPER WOOFER
J253
J251
SPEAKERS
SPEAKER IMP:6Ω
J252
PHONES
CON101
CON102
CON103
CON301
CON302
CON303
TO B FRONT C.B
TO E AC-2 C.B
WH102
W304
CD DECK

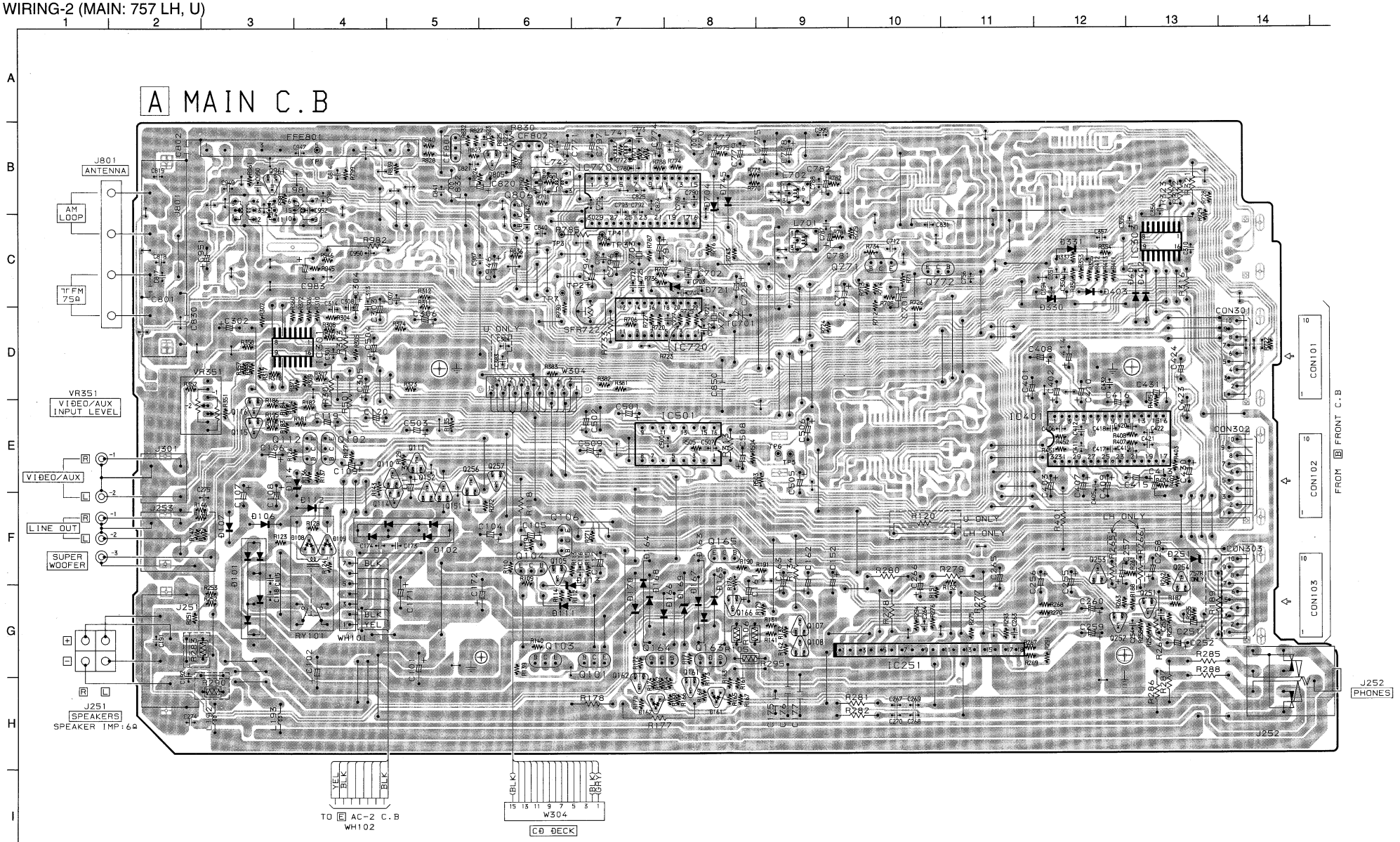
SCHEMATIC DIAGRAM-1 (MAIN: 757 HE, HK, HR)



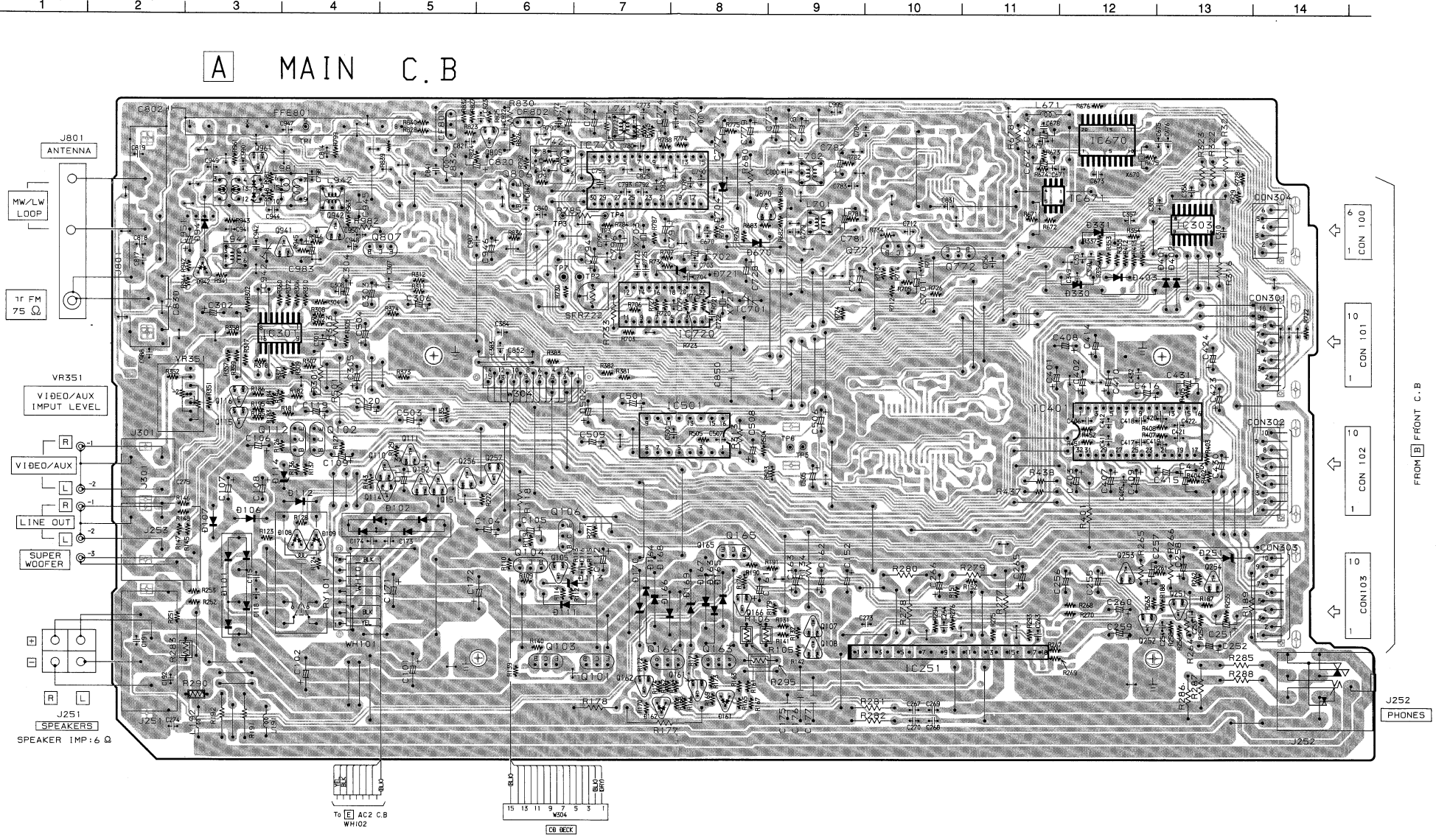
SCHEMATIC DIAGRAM-2 (MAIN: 757 LH, U)



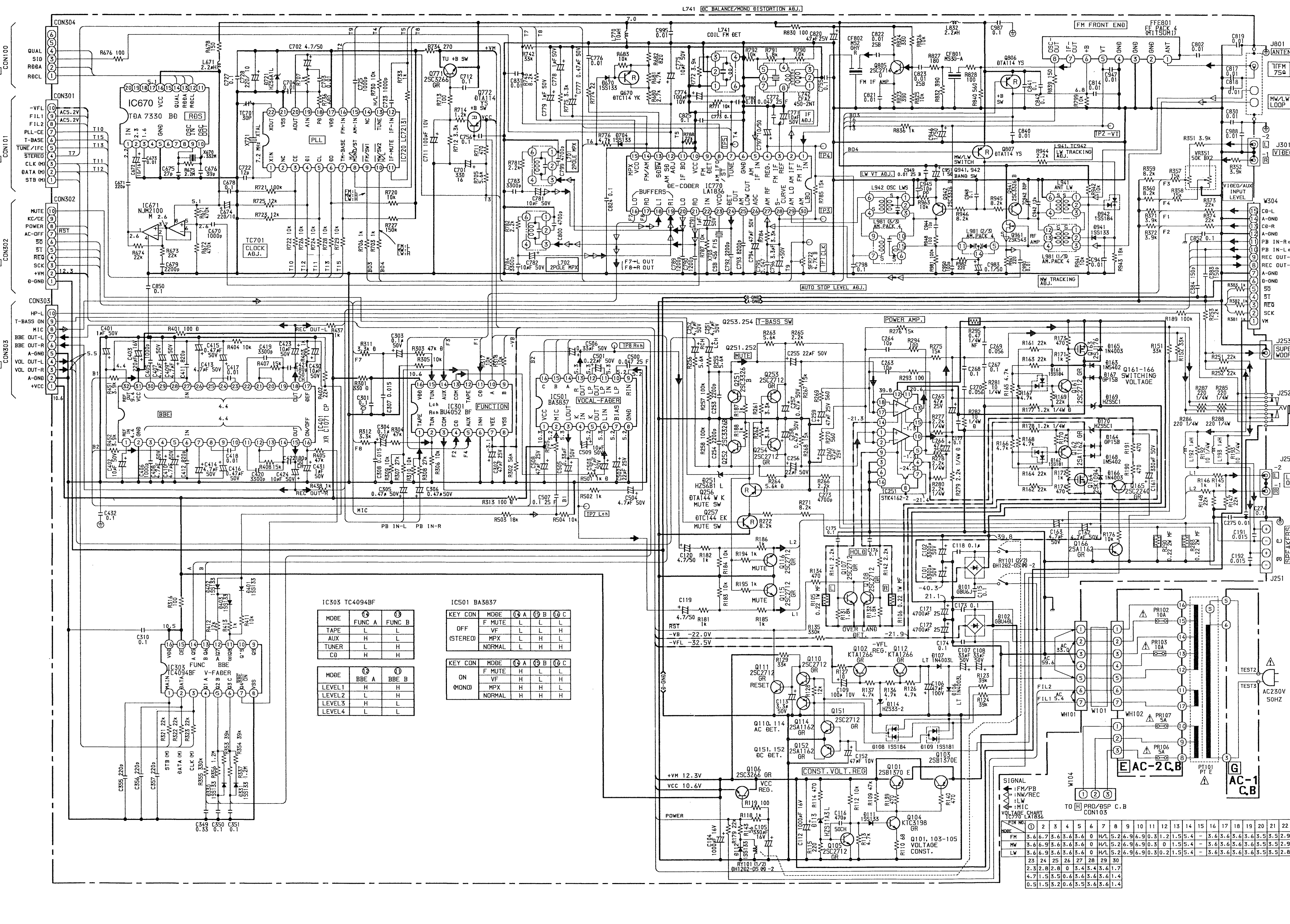
WIRING-2 (MAIN: 757 LH, U)



A MAIN C.B


J801
ANTENNA
MW/LW LOOP
1F FM 75 Ω
VR351
VIDEO/AUX IMPUT LEVEL
VIDEO/AUX
LINE OUT
SUPER WOOFER
J251
SPEAKERS
SPEAKER IMP:6 Ω
J252
PHONES
FROM B FRONT C.B
CON100
CON101
CON102
CON103
CON301
CON302
CON303
CON304
To E AC2 C.B
WH102
CD DECK
IC251
IC303
IC501
IC670
IC701
IC720
IC771
IC772
IC781
IC782
IC783

SCHEMATIC DIAGRAM-3 (MAIN: 757R)



IC303 TC4094BF

MODE	⑭ FUNC A	⑬ FUNC B
TAPE	L	L
AUX	H	L
TUNER	L	H
CD	H	H

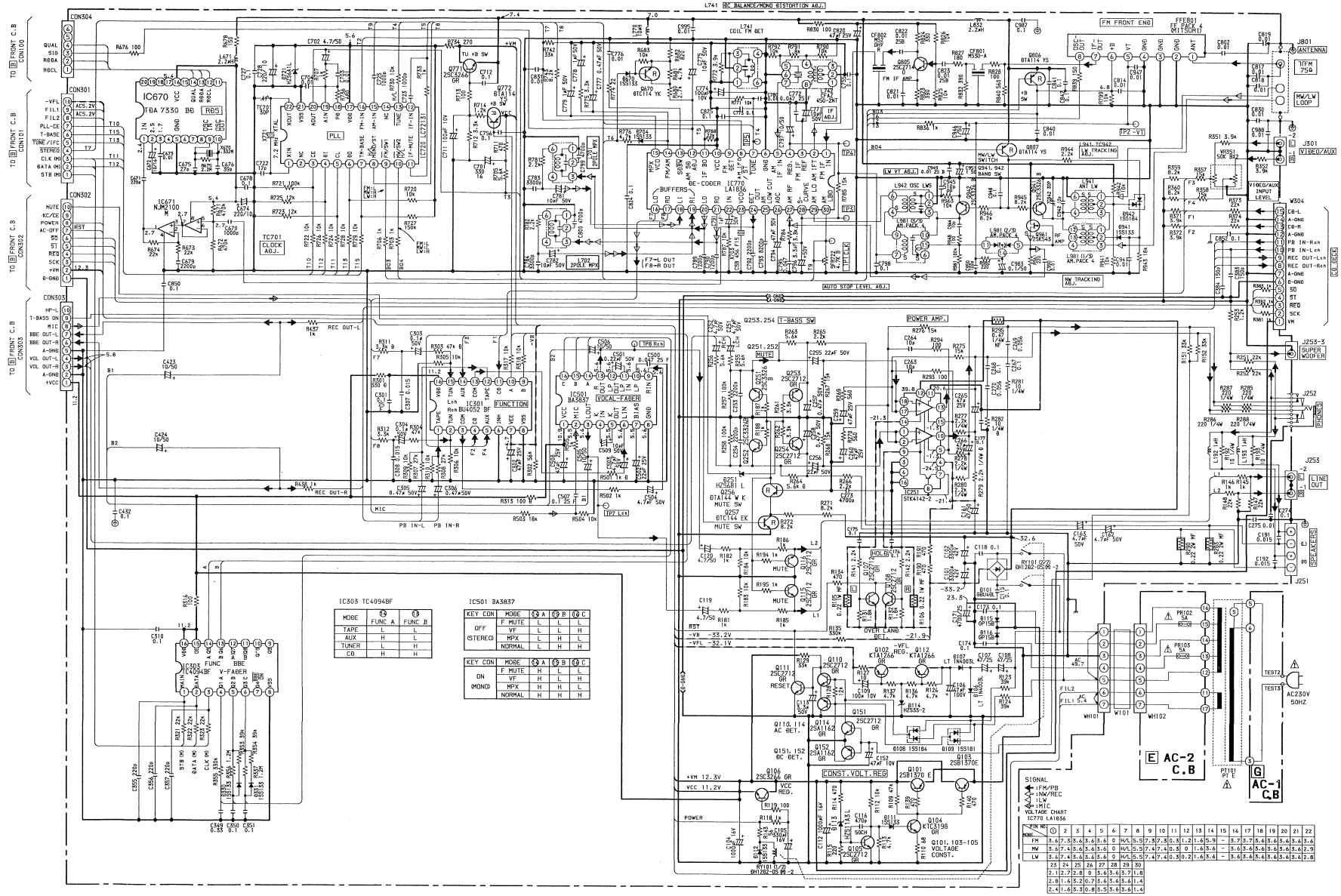
MODE	⑫ BBE A	⑪ BBE B
LEVEL1	H	H
LEVEL2	L	H
LEVEL3	H	L
LEVEL4	L	L

IC501 BA3837

KEY CON	MODE	⑭ A	⑮ B	⑯ C
OFF (STEREO)	F MUTE	L	L	L
	VF	L	L	H
	MPX	L	H	L
	NORMAL	L	H	H

KEY CON	MODE	⑭ A	⑮ B	⑯ C
ON (MONO)	F MUTE	H	L	L
	VF	H	L	H
	MPX	H	H	L
	NORMAL	H	H	H

SCHEMATIC DIAGRAM-4 (MAIN: 656R)



IC303 TC4094BF

MODE	FUNC A	FUNC B
TAPE	L	L
AUX	H	L
TUNER	L	H
CD	H	H

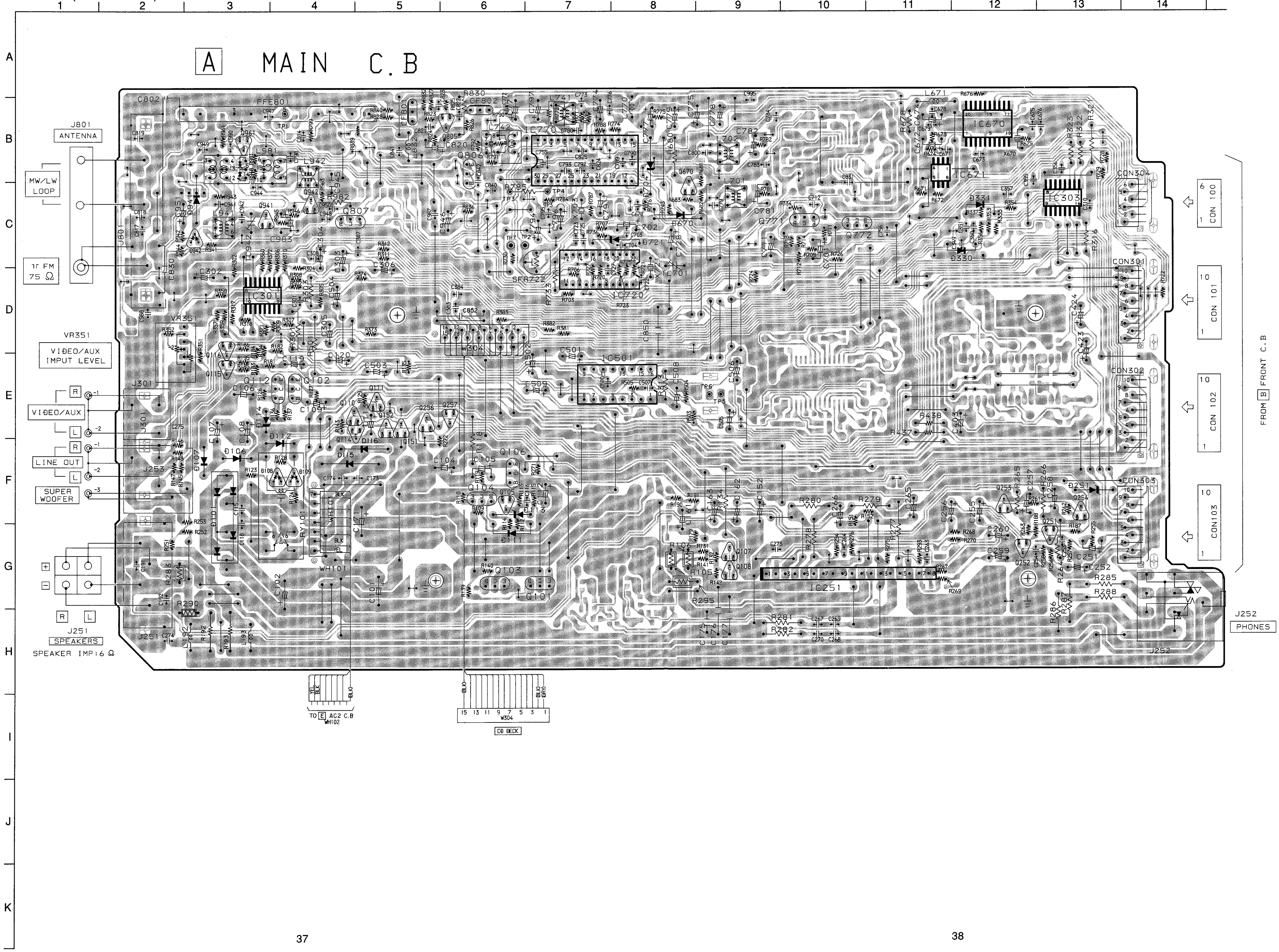
IC501 BA3837

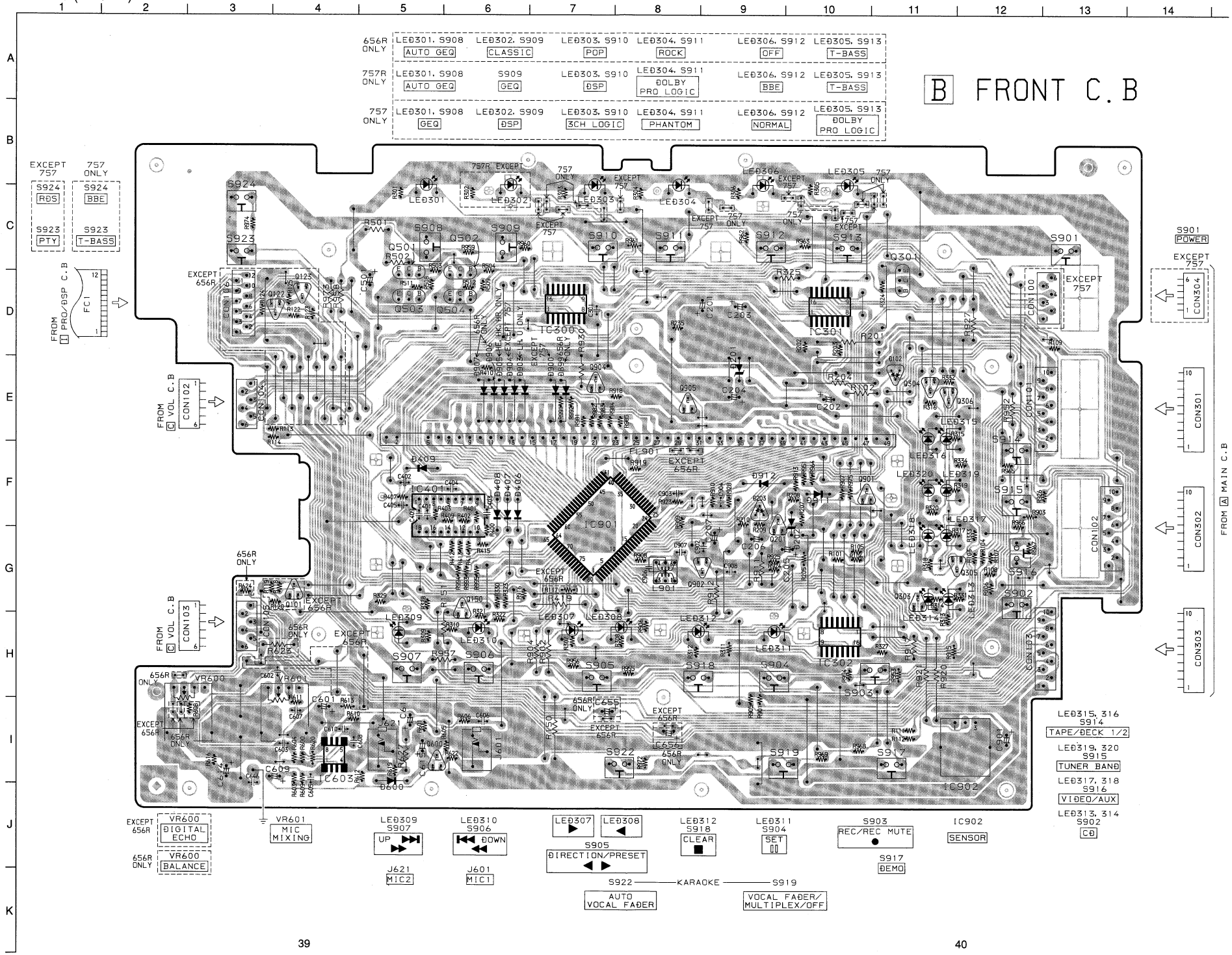
KEY CON	MODE	A	B	C
OFF (STEREO)	F. MUTE	L	L	L
	VF	L	L	H
	MPX	L	H	L
	NORMAL	L	H	H
ON (MONO)	F. MUTE	H	L	L
	VF	H	L	H
	MPX	H	H	L
	NORMAL	H	H	H

MODE	①	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
FM	3.6	7.3	5.6	3.6	3.6	0	M/L	5.5	7.5	7.3	0.5	1.2	1.6	5.9	-	3.7	5.7	3.6	3.6	3.6	3.6	3.6
MW	3.6	7.4	5.6	3.6	5.6	0	M/L	5.5	7.4	7.4	0.3	0	1.6	3.6	-	3.6	3.6	5.6	5.6	3.6	3.6	2.9
LW	3.6	7.4	5.6	3.6	5.6	0	M/L	5.5	7.4	7.4	0.3	0.2	1.6	3.6	-	3.6	3.6	5.6	5.6	3.6	3.6	2.8

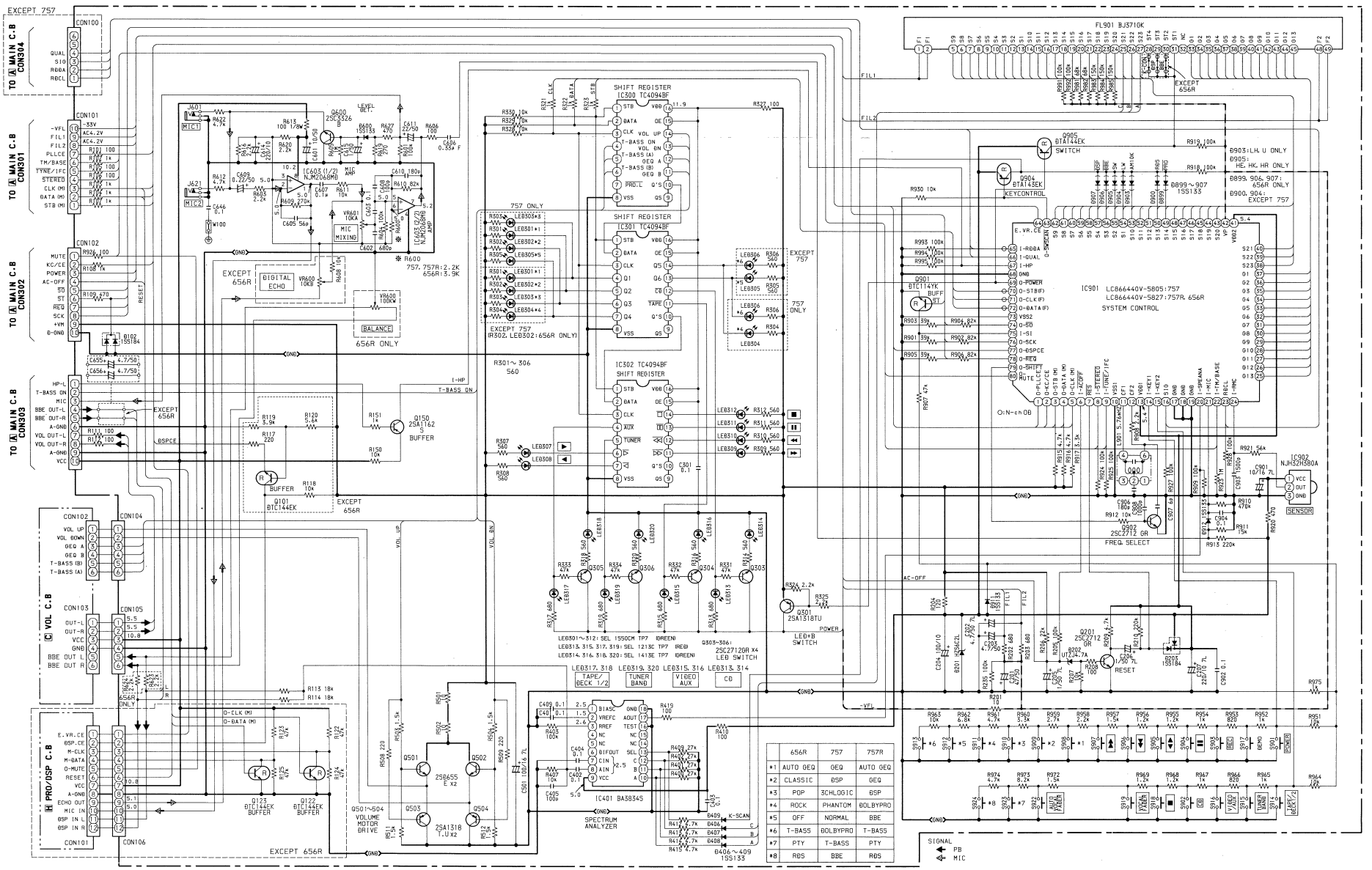
MODE	23	24	25	26	27	28	29	30
	2.1	2.7	2.8	0	3.6	5.6	3.7	1.8
	2.8	1.6	5.2	0.7	3.6	5.6	3.6	1.4
	2.4	1.6	5.3	0.8	3.5	5.6	3.6	1.4

WIRING-4 (MAIN: 656R)

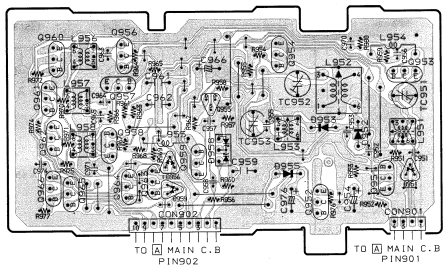



B FRONT C.B
656R ONLY
LED301, S908 AUTO GEQ
LED302, S909 CLASSIC
LED303, S910 POP
LED304, S911 ROCK
LED306, S912 OFF
LED305, S913 T-BASS
757R ONLY
LED301, S908 AUTO GEQ
S909 GEQ
LED303, S910 DSP
LED304, S911 DOLBY PRO LOGIC
LED306, S912 BBE
LED305, S913 T-BASS
757 ONLY
LED301, S908 GEQ
LED302, S909 DSP
LED303, S910 3CH LOGIC
LED304, S911 PHANTOM
LED306, S912 NORMAL
LED305, S913 DOLBY PRO LOGIC
EXCEPT 757
S924 RDS
S923 PTY
757 ONLY
S924 BBE
S923 T-BASS
FROM I PRO/DSP C.B
FROM C VOL C.B CON102
FROM C VOL C.B CON103
656R ONLY
EXCEPT 656R
EXCEPT 757
757 ONLY
757R EXCEPT
S901 POWER
FROM A MAIN C.B
CON304
CON301
CON302
CON303
LED315, 316 S914 TAPE/DECK 1/2
LED319, 320 S915 TUNER BAND
LED317, 318 S916 VIDEO/AUX
LED313, 314 S902 CD
EXCEPT 656R VR600 DIGITAL ECHO
656R ONLY VR600 BALANCE
VR601 MIC MIXING
LED309 S907 UP
LED310 S906 DOWN
J621 MIC2
J601 MIC1
LED307
LED308
S905 DIRECTION/PRESET
LED312 S918 CLEAR
LED311 S904 SET
S903 REC/REC MUTE
S917 DEMO
IC902 SENSOR
S922 AUTO VOCAL FADER
KARAOKE
S919 VOCAL FADER/ MULTIPLEX/OFF

SCHEMATIC DIAGRAM-5 (FRONT)

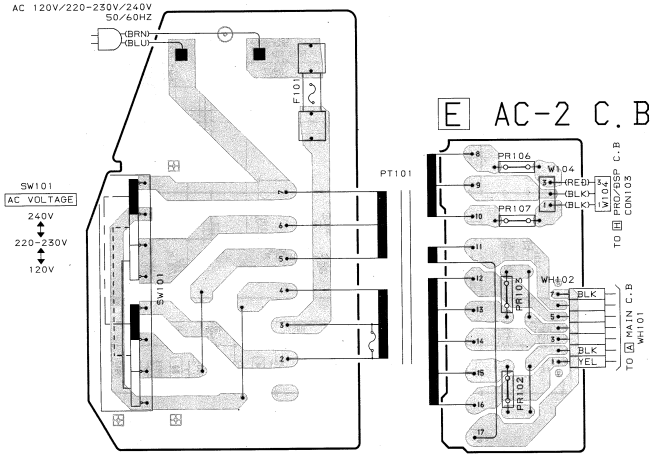


D SW C.B
(HE, HR, HK)

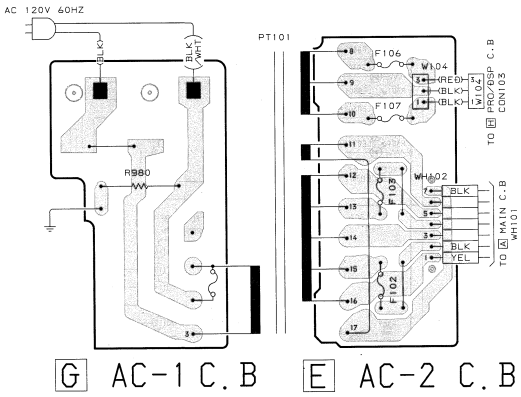


HE, HR, HK, LH MODELS

F PT C.B

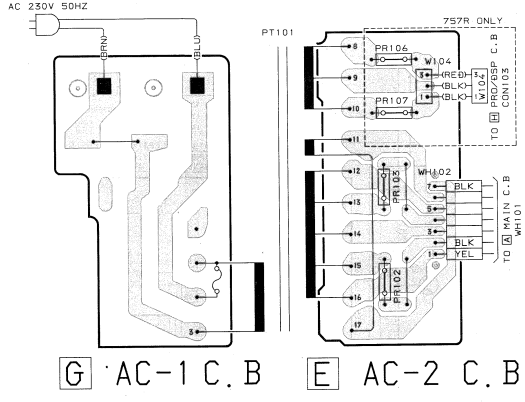


U MODEL



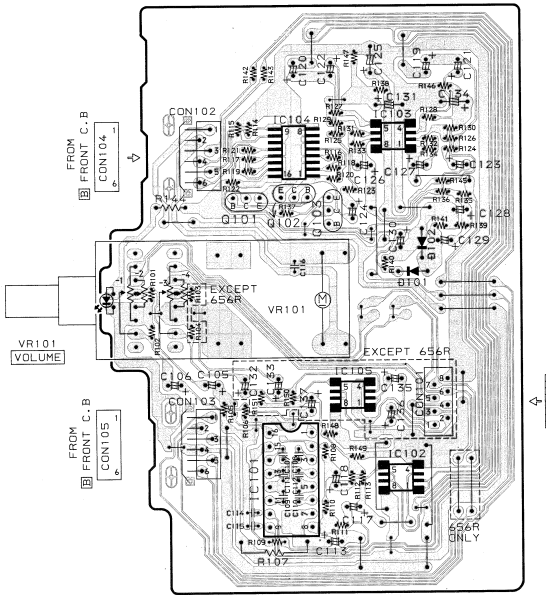
G AC-1 C.B E AC-2 C.B

757R, 656R MODELS

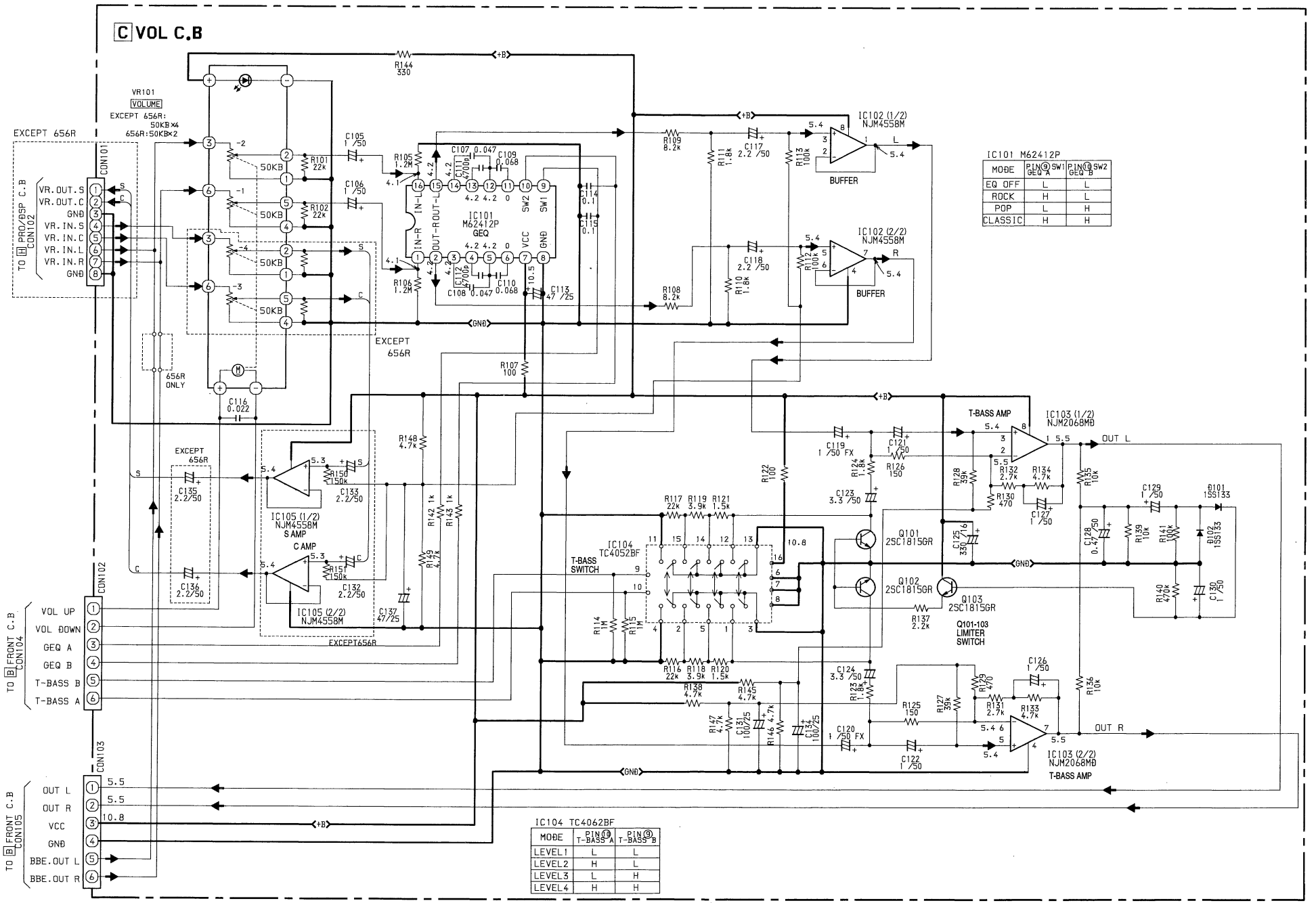


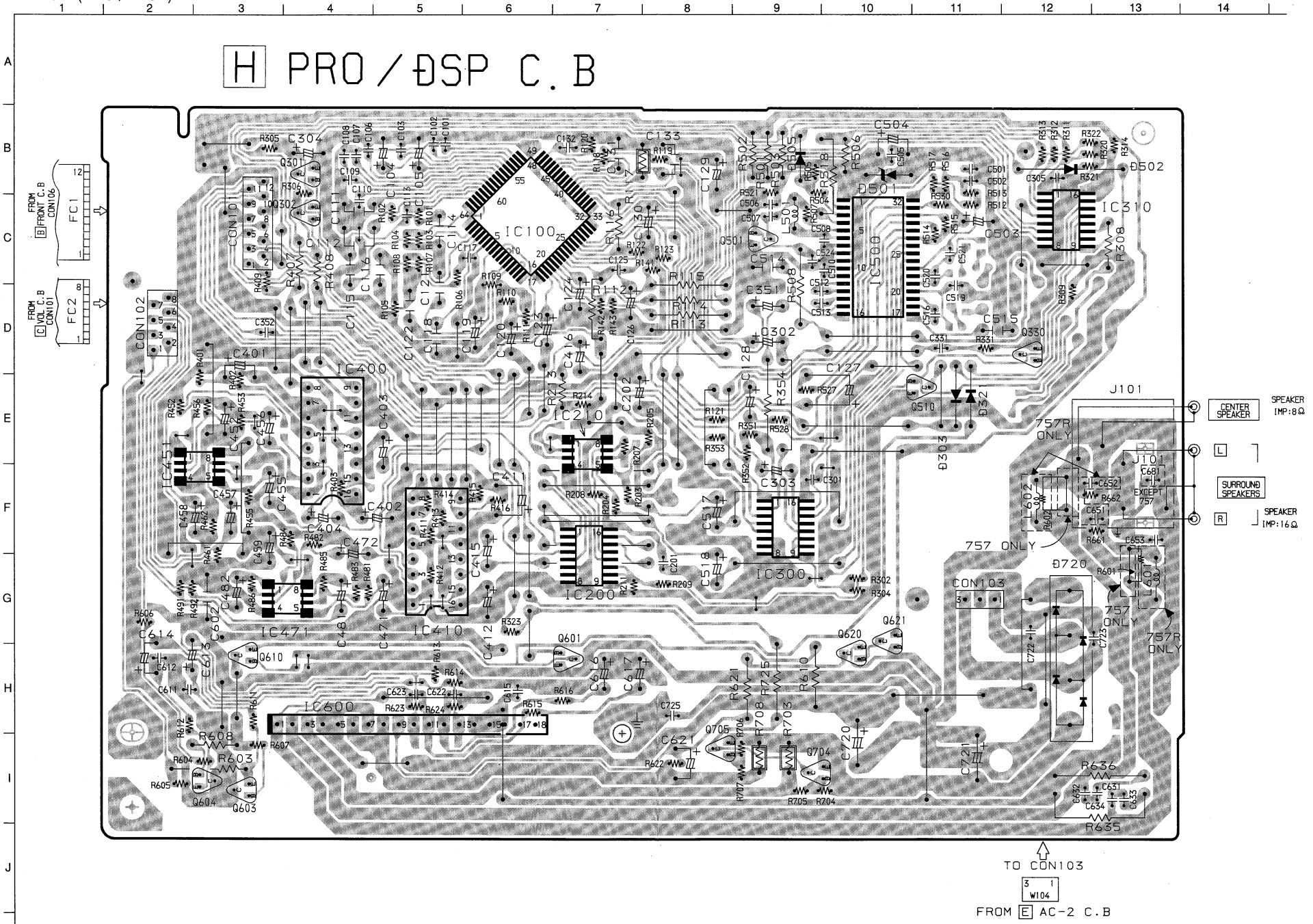
G AC-1 C.B E AC-2 C.B

C VOL C.B

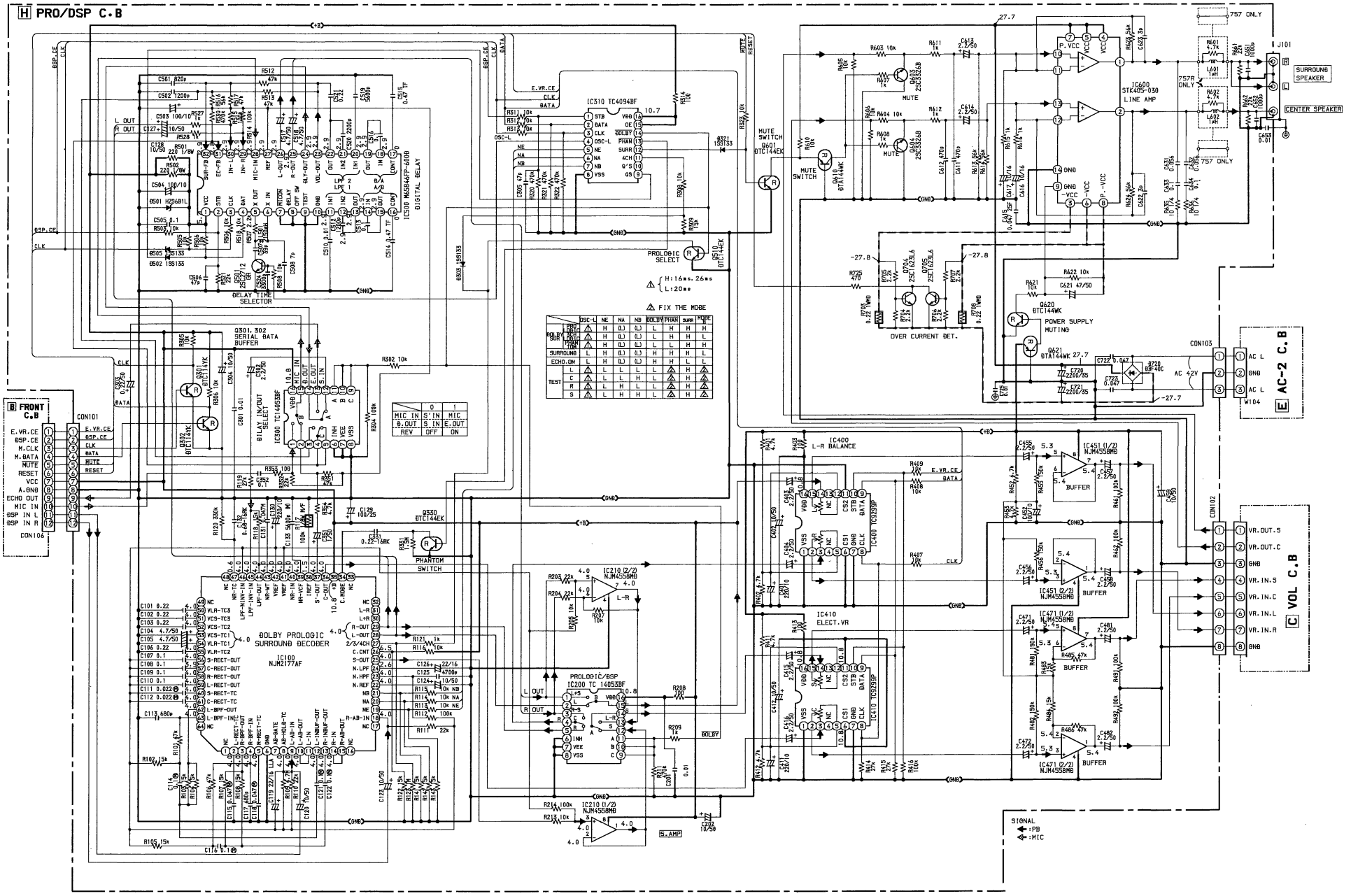


SCHEMATIC DIAGRAM-6 (VOLUME)



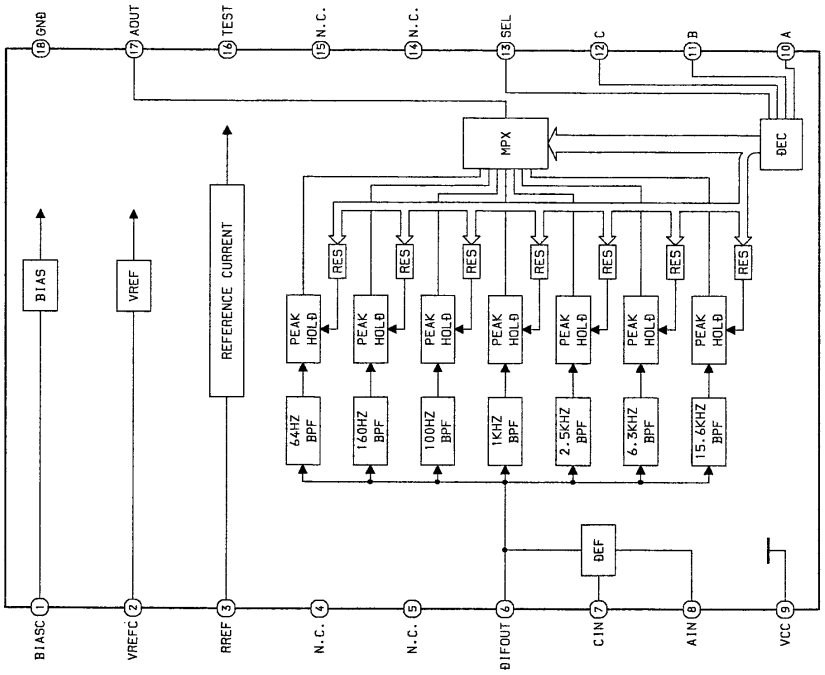

H PRO/DSP C.B
FROM B FRONT C.B CON106
FROM C VOL C.B CON101
FC1
FC2
CON102
CON103
IC100
IC200
IC210
IC300
IC310
IC400
IC410
IC471
IC500
IC600
D501
D502
D303
D320
D330
D720
J101
CENTER SPEAKER
SPEAKER IMP:8Ω
L
SURROUND SPEAKERS
R
SPEAKER IMP:16Ω
757R ONLY
757 ONLY
EXCEPT 757
TO CON103
W104
FROM E AC-2 C.B

SCHEMATIC DIAGRAM-7 (PRO ／ DSP: 757, 757R MODELS)

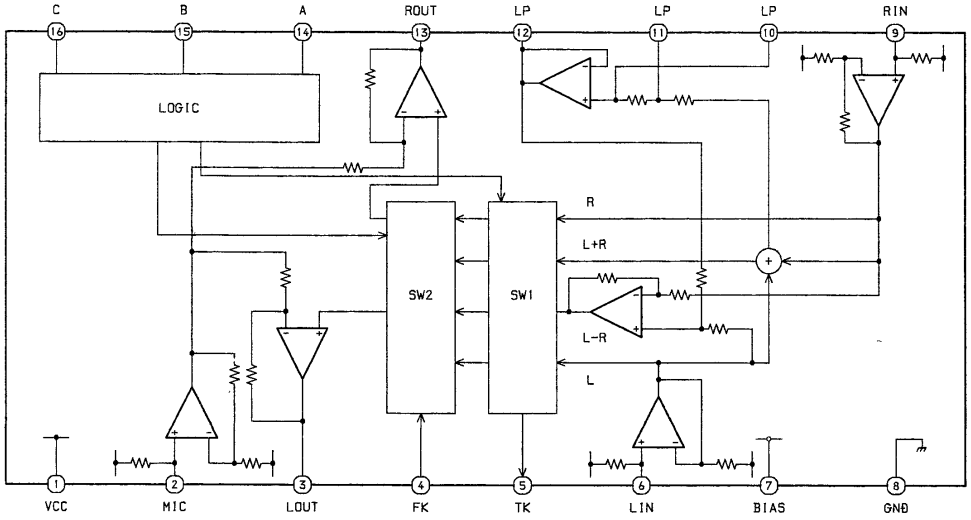


IC BLOCK DIAGRAM

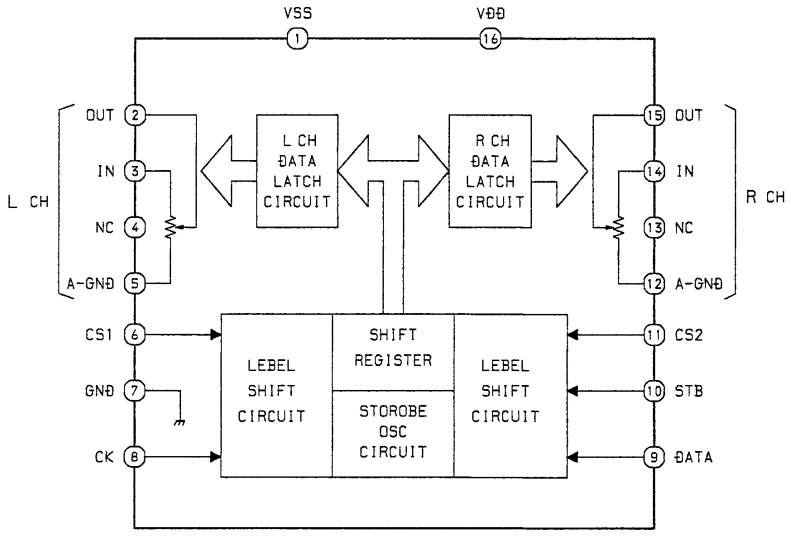
IC, BA3834



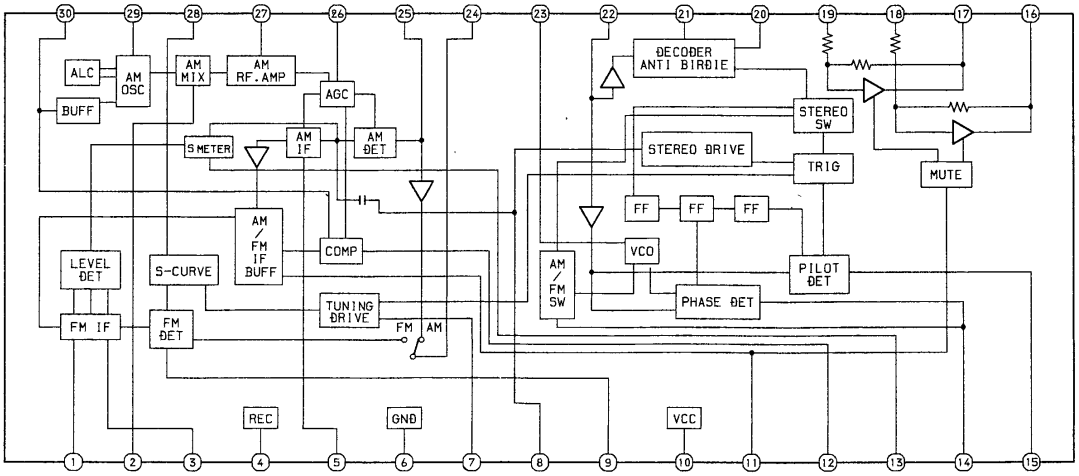
IC, BA3837



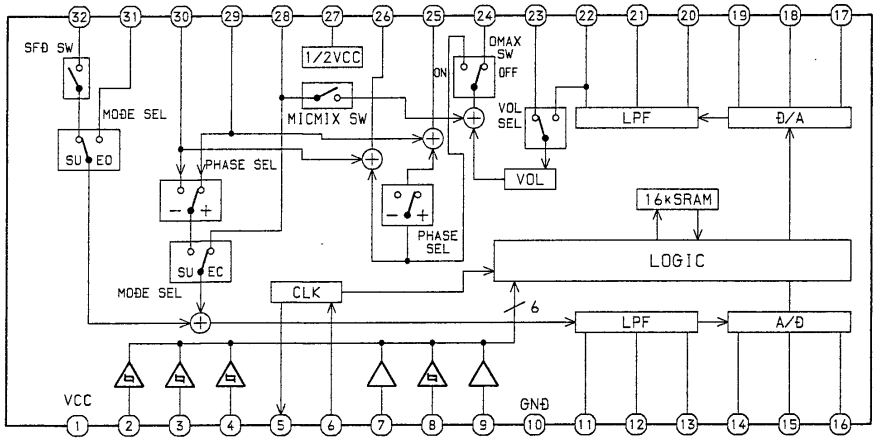
IC, TC9299



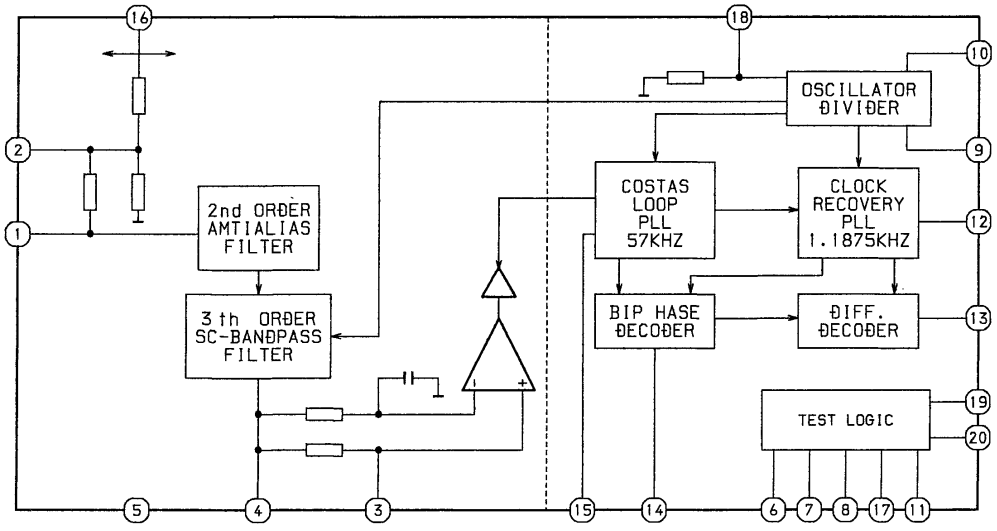
IC, LA1836



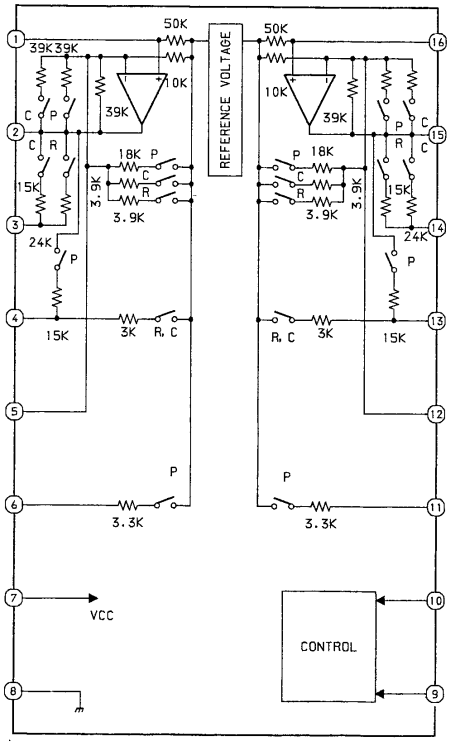
IC, M65846P



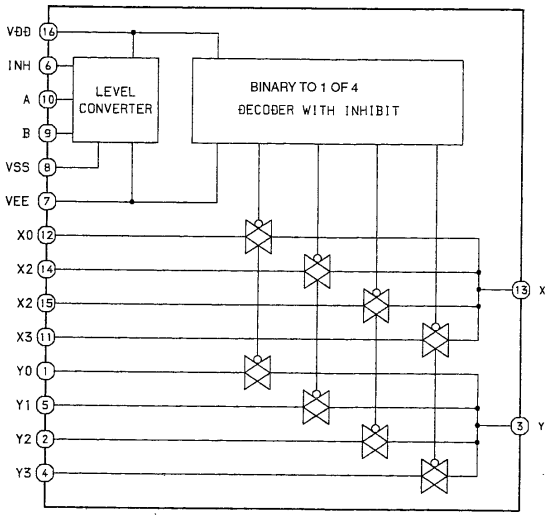
IC, TDA7330



IC, M6241P



IC, BU4052

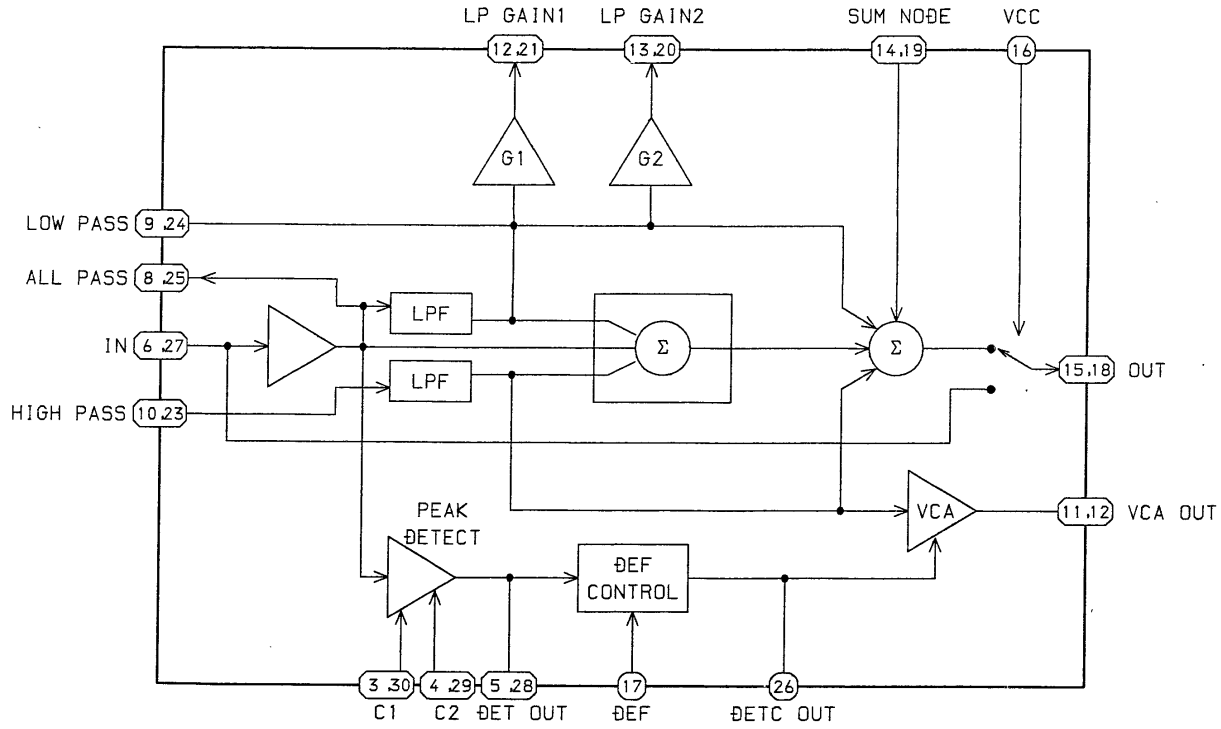


TRUTH TABLE

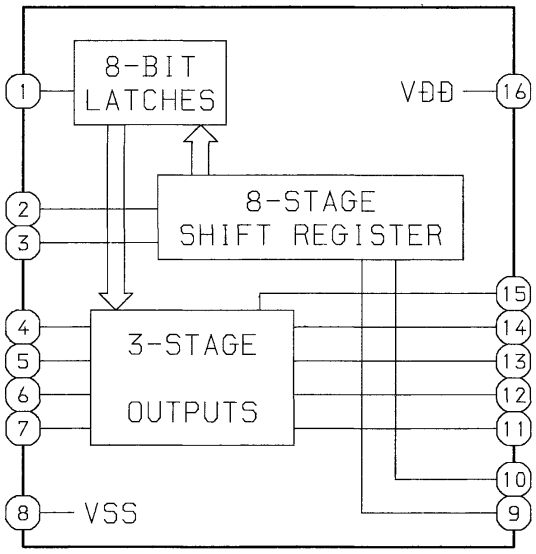
INHIBIT	A	B	NO SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X:DON'T CARE.

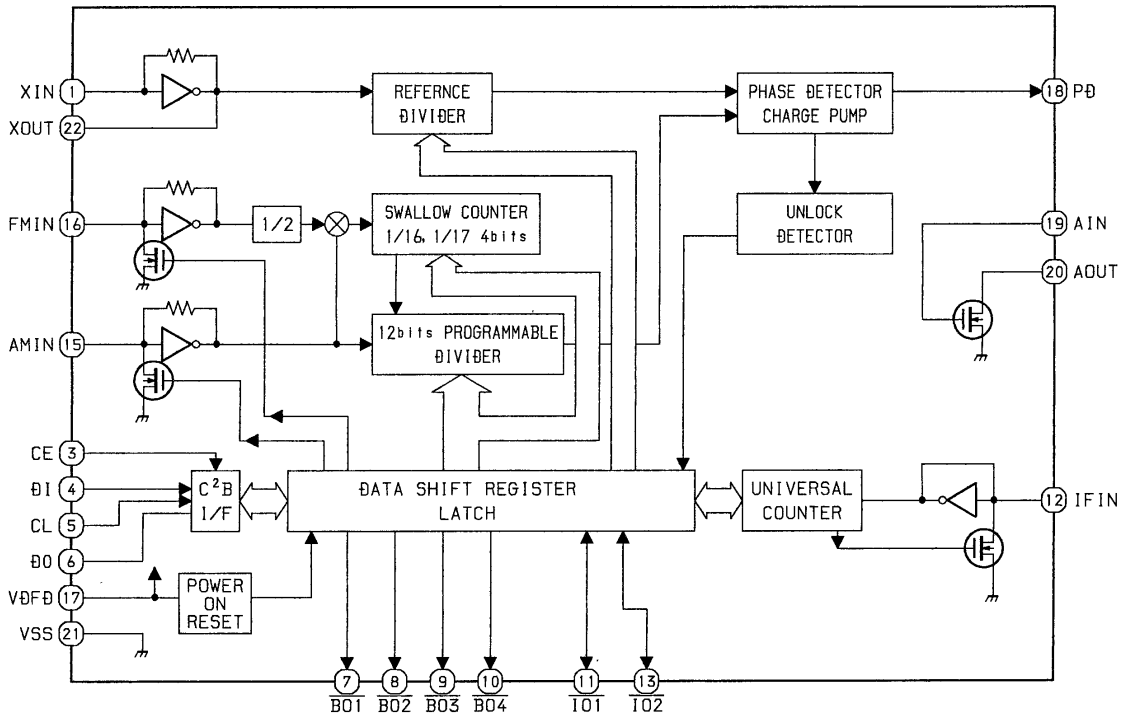
IC, XR1071CP



IC, TC4094BF



IC, LC72131



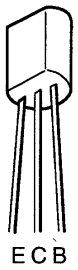
IC DESCRIPTION

IC, LC866440W

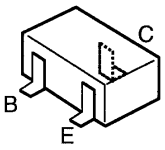
Pin No.	Pin name	I/O	Description
1	O-PLLCE	O	PLL IC chip enable output.
2	O-KC/CE	O	Key control IC, data latch strobe output.
3	O-STB (M)	O	Main shift register, data latch strobe output.
4	O-DATA (M)	O	Main shift register/PLL/DSP related, data output.
5	O-CLK (M)	O	Main shift register/PLL/DSP related, data transfer clock output.
6	I-$\overline{\text{HOLD}}$	I	Power failure sensing input (Hold at "L").
7	RESET	—	Reset input (Reset at "L").
8	$\overline{\text{I-STEREO}}$	I	Tuner stereo sensing input.
9	$\overline{\text{I-TUNE/IFC}}$	I	Tuner, SD sensing input/IF count serial data input.
10	VSS1	—	GND.
11	CF1	—	5.76 MHz oscillator.
12	CF2	—	5.76 MHz oscillator.
13	VDD	—	Power supply input.
14	I-KEY1	I	Key 1 A/D input.
15	I-KEY2	I	Key 2 A/D input.
16	I-SIG	I	Signal level input for RDS.
17	GND	—	GND terminal.
18	GND	—	GND terminal.
19	GND	—	GND terminal.
20	I-SPEANA	I	Spectrum analyzer level A/D input.
21	I-MIC	I	Mic level A/D input for auto vocal fader.
22	I-TMBASE	I	Reference clock input for watch (Automatically supporting 8/50/60 Hz).
23	I-RDCL	I	Clock input for RDS.
24	$\overline{\text{I-RMC}}$	I	System remote control input. (active Low).
25~37	G13~G1	O	FL grid output (G13~G1).
38~40	S23~S21	O	FL segment output.
41	VDD2	—	Power supply input.
42	-VP	—	Power supply for display.
43~48	S20~S15	I/O	FL segment output.
49	S14	I/O	FL segment output/Diode input supporting non-PRO.
50	S13	I/O	FL segment output/Diode input supporting RDS.
51	S12	I/O	FL segment output/Diode input supporting FM-JPN.
52	S11	I/O	FL segment output/Diode input supporting AMST.
53	S10	I/O	FL segment output/Diode input supporting AM10 K.
54	S1	I/O	FL segment output/Diode input supporting LW.
55	S2	I/O	FL segment output/Diode input supporting SW.
56	S3	I/O	FL segment output/Diode input supporting non-BBE.
57	S4	I/O	FL segment output/Diode input supporting non-DSP.
58	S5	I/O	FL segment output/Diode input supporting K-CON.
59	S6	I/O	FL segment output/Diode input supporting NTSC.
60	S7	O	FL segment output.

Pin No.	Pin name	I/O	Description
61	S8	O	CD tray close output.
62	S9	O	CD tray open output.
63	O-$\overline{\text{SWSCAN}}$	O	CD turntable reverse direction rotation output/SW scan (timing output).
64	E.VR.CE	O	CD turntable forward direction rotation output/Electronic volume chip enable.
65	I-RDDA	I	Data input for RDS.
66	I-QUAL	I	Data discrimination input for RDS.
67	I-HP	I	Infinite large to sensor, surround VOL, TC9299 when I-HP is "H".
68	GND	—	GND.
69	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
70	O-STB (F)	O	Front shift register, data latch strobe output.
71	O-CLK (F)	O	Front shift register, data transfer clock output.
72	O-DATA (F)	O	Front shift register, data output.
73	VSS2	—	GND.
74	O-$\overline{\text{SO}}$	O	FD control data output.
75	I-SI	I	FD control data input.
76	O-$\overline{\text{SCK}}$	O	FD control data, transfer clock output.
77	O-DSPCE	O	DSP data latch strobe output (note) Take care of output delay.
78	O-$\overline{\text{REQ}}$	O	FD control data latch output
79	O-$\overline{\text{SHIFT}}$	O	Microprocessor clock shift output during tuner reception.
80	$\overline{\text{O-MUTE}}$	O	System mute $\overline{\text{ON}}$/OFF output.

TRANSISTOR ILLUSTRATION

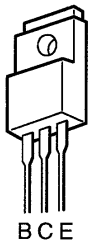


2SA1318
2SC1815
2SC2001
2SC2240
2SC3266
2SD655
KTA1266
KTC3198

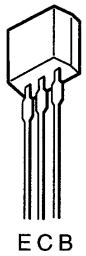


2SA1162
2SC1623
2SC2712
2SC2714
2SC3326

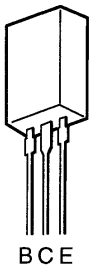
DTA143EK
DTA144EK
DTA144WK
DTC114YK
DTC144EK
DTC144WK



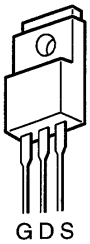
2SB1370



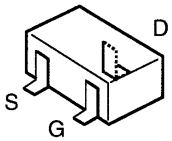
2SC1740S
DTA114YS



2SD2005



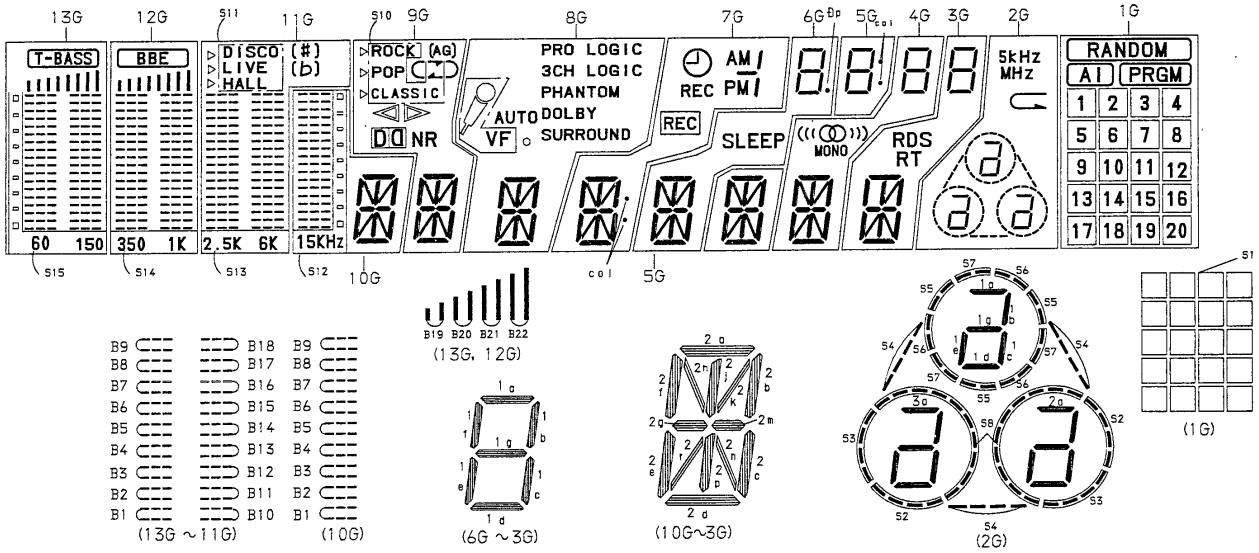
2SJ176
2SK1094



2SK543

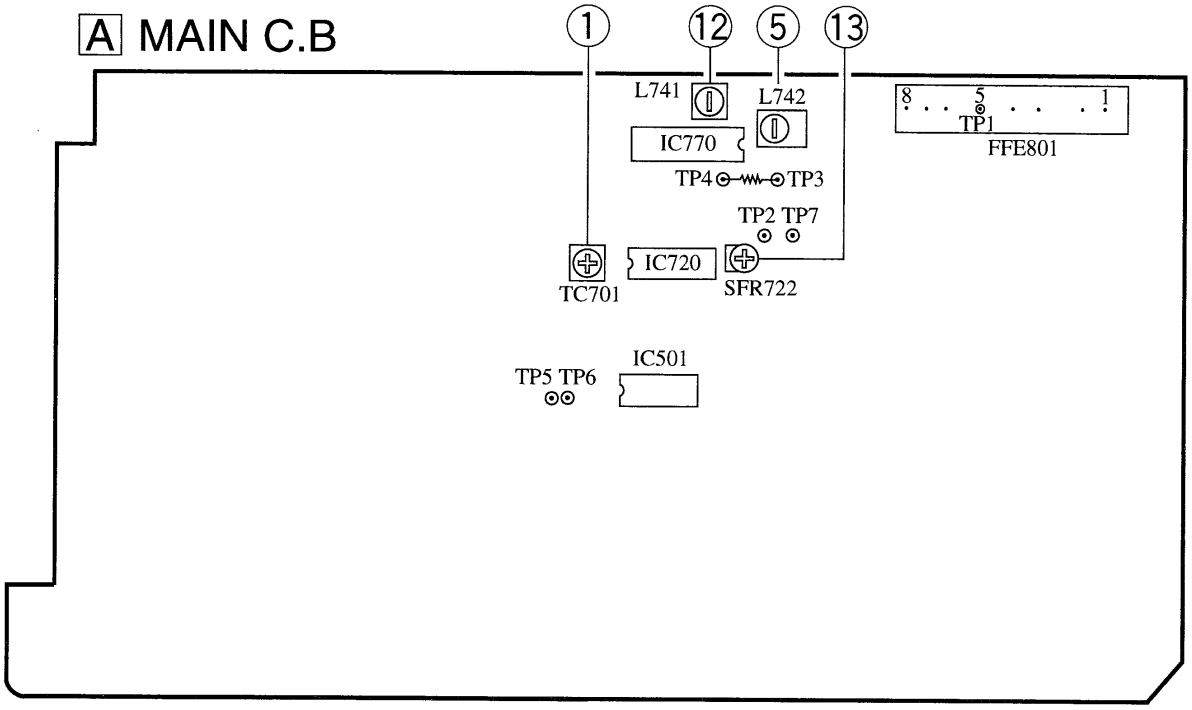
FL (BJ371GK) GRID ASSIGNMENT / ANODE CONNECTION

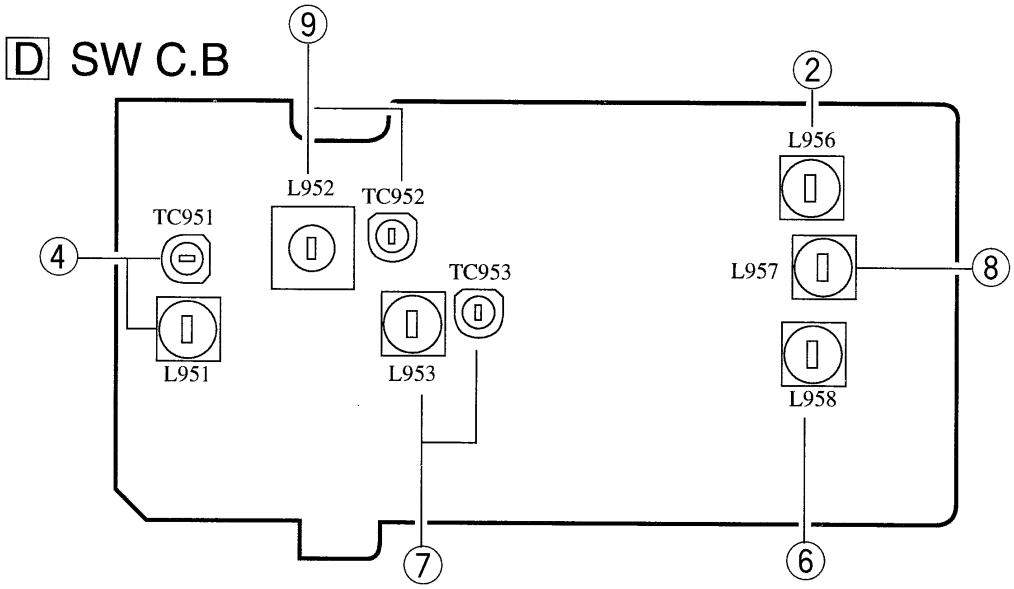
GRID ASSIGNMENT



ANODE CONNECTION

	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	2d	2d	2d	2d	2d	2d	2d	2d	S2	**20**
P2	B1	B1	B1	2n	2n	2n	2n	2n	2n	2n	2n	S3	**19**
P3	B11	B11	B11	2p	2p	2p	2p	2p	2p	2p	2p	3e	**18**
P4	B2	B2	B2	2r	2r	2r	2r	2r	2r	2r	2r	3c	**17**
P5	B12	B12	B12	2e	2e	2e	2e	2e	2e	2e	2e	3a,3d,3g	**16**
P6	B3	B3	B3	2c	2c	2c	2c	2c	2c	2c	2c	3b	**15**
P7	B13	B13	B13	2g	2g	2g	2g	2g	2g	2g	2g	2e	**14**
P8	B4	B4	B4	2m	2m	2m	2m	2m	2m	2m	2m	2c	**13**
P9	B5	B5	B5	2f	2f	2f	2f	2f	2f	2f	2f	2a,2d,2g	**12**
P10	B15	B15	B15	2b	2b	2b	2b	2b	2b	2b	2b	S4	**11**
P11	B6	B6	B6	2k	2k	2k	2k	2k	2k	2k	2k	S5	**10**
P12	B16	B16	B16	2j	2j	2j	2j	2j	2j	2j	2j	S6	**9**
P13	B7	B7	B7	2h	2h	2h	2h	2h	2h	2h	2h	S7	**8**
P14	B14	B14	B14	2a	2a	2a	2a	2a	2a	2a	2a	2b	**7**
P15	B17	B17	B17	B1	DD NR	○	col (上)	ϑp	col (下)	(((◎)))	**RT**	1e	**6**
P16	B8	B8	B8	B2	◁	S9	col (下)	1d	1d	1d	1d	1a,1d,1g	**5**
P17	B18	B18	B18	B3	▷	**AUTO**	**REC**	1e	1e	1e	1e	1c	**4**
P18	B9	B9	B9	B4	(CLASSIC)	SURROUND	**PM**	1c	1c	1c	1c	1b	**3**
P19	B19 (T-BASS)	B19 (BBE)	(DISCO)	B5	(POP)	**DOLBY**	**AM**	1g	1g	1g	1g	S8	**2**
P20	B20	B20	(LIVE)	B6	(ROCK)	**PHANTOM**	—	1f	1f	1f	1f	**MHz**	**1**
P21	B21	B21	(HALL)	B7	(	3CH LOGIC	/	1b	1b	1b	1b	⊂	AI
P22	B22	B22	(♭)	B8	)	3CH LOGIC	◷	1a	1a	1a	1a	**KHz**	RANDOM
P23	—	—	(♯)	B9	(AG)	—	REC	SLEEP	col (上)	MONO	**RDS**	**5**	PRGM
P24	S15 **T-BASS**	S14	S13	S12	S10	—	—	—	—	—	—	—	S1
P25	—	**BBE**	—	—	—	—	—	—	—	—	—	—	—
P26	—	—	S11	—	—	—	—	—	—	—	—	—	—
P26	—	—	# ♭	—	—	—	—	—	—	—	—	—	—


A MAIN C.B
1
12
5
13
L741
L742
IC770
TP4
TP3
8 5 1
TP1
FFE801
TP2 TP7
IC720
SFR722
TC701
IC501
TP5 TP6


D SW C.B
9
2
L956
L952
TC952
TC951
4
TC953
L957
8
L951
L953
L958
7
6

TUNER SECTION

1. Clock Adjustment
   Settings:
   - Test point: TP2
   - Adjustment location: TC701

   Method: Set to MW 1710kHz and adjust TC701 so that the test point becomes 2160kHz±0.01kHz.

2. MW VT Adjustment
   Settings:
   - Test point: TP1
   - Adjustment location: L956

   Method: Set to MW 1710kHz adjust L956 so that the test point becomes 8.5V±0.05V.

3. MW VT Check
   Settings:
   - Test point: TP1

   Method: Set to MW 530kHz and check that the test point is more than 0.3V.

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: TP1
   - Adjustment location: L958

   Method: Set to SW-2 21.85MHz adjust L958 so that the test point becomes 8.0V±0.05V.

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: TP1
   - Adjustment location: L957

   Method: Set to SW-1 7.3MHz and adjust L957 so that the test point becomes 7.7V±0.05V.

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. FM VT Check
    Settings:
    - Test point: TP1

    Method: Set to FM 87.5MHz and check that the test point is more than 1.0V. Then set to FM 108MHz and check that the test point is less than 8.0V.

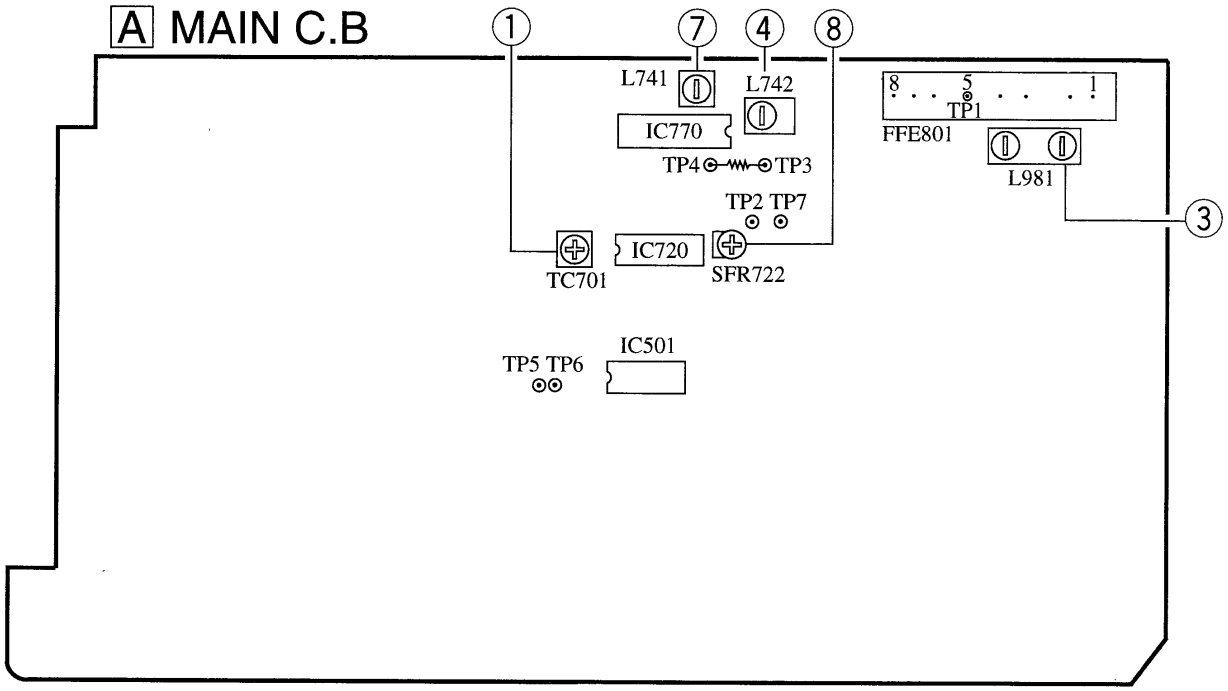
11. FM Tracking Check
    Settings:
    - Test point: TP5, TP6
      Check that the test point is 2±6dB and distortion is less than 3% at FM 98.0MHz.

12. 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±0.04V. Next check that the distortion is less than 1.3%.

13. Auto stop Level Adjustment
    Settings:
    - Test point: TP7
    - Adjustment location: SFR722
    - Input level: 16dB

    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.



TUNER SECTION

1. Clock Adjustment
   Settings: • Test point: TP2
   • Adjustment location: TC701
   Method: Set to AM 1710kHz and adjust TC701 so that the test point becomes 2160kHz±0.01kHz.

2. AM VT Check
   Settings: • Test point: TP1
   Method: Set to AM 1710kHz and check that the test point is 7.0±1.0V.

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.

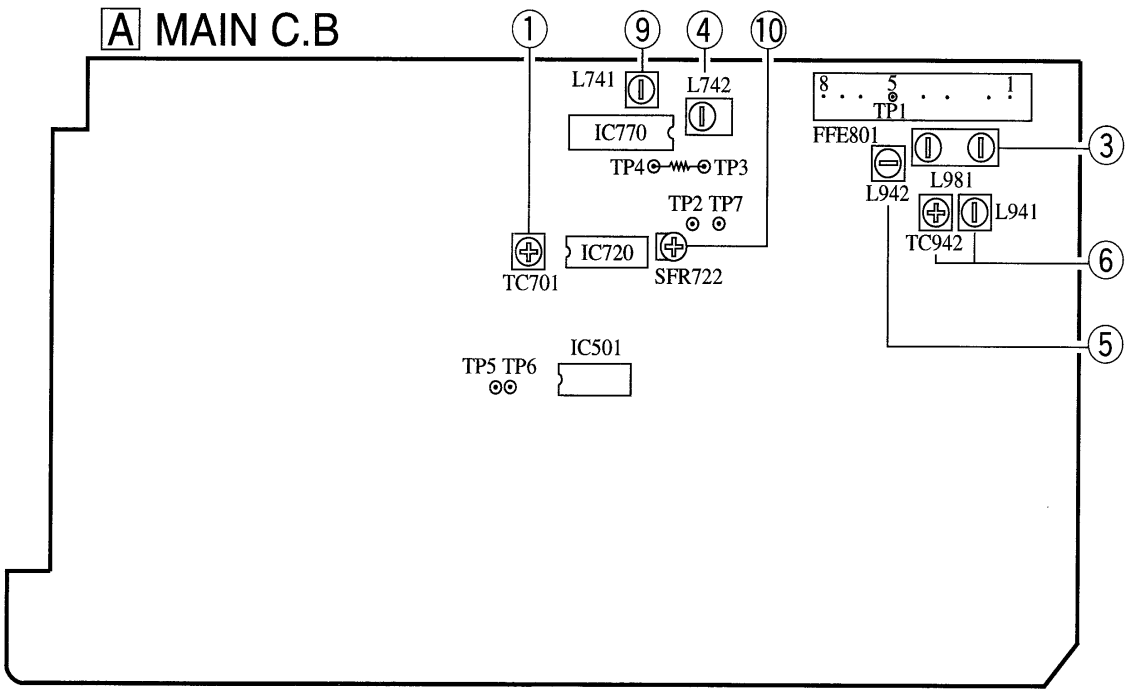
4. AM IF Adjustment
   Settings: • Test point: TP5, TP6
   L742 ..... 450kHz

5. FM VT Check
   Settings: • Test point: TP1
   Method: Set to FM 87.5MHz and check that the test point is more than 1.0V.
   Then set to FM 108MHz and check that the test point is less than 8.0V.

6. FM Tracking Check
   Settings: • Test point: TP5, TP6
   Check that the test point is 2±6dB and distortion is less than 3% at FM 98.0MHz.

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 0V±0.04V. Next check that the distortion is less than 1.3%.

8. 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.



TUNER SECTION

1. Clock Adjustment
   Settings: • Test point: TP2
   • Adjustment location: TC701
   Method: Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz±0.01kHz.

2. MW VT Check
   Settings: • Test point: TP1
   Method: Set to MW 1602kHz and check that the test point is 6.8±1.0V.

3. MW Tracking Adjustment
   Settings: • Test point: TP5, TP6
   • Adjustment location: L981
   • Input level: 18dB
   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: TP1
   • Adjustment location: L942
   Method: Set to LW 144kHz adjust L942 so that the test point becomes 1.5V±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 Check
   Settings: • Test point: TP1
   Method: Set to FM 87.5MHz and check that the test point is more than 1.5V. Then set to FM 108MHz and check that the test point is less than 8.2V.

8. FM Tracking Check
   Settings: • Test point: TP5, TP6
   Check that the test point is 2±6dB and distortion is less than 3% at FM 98.0MHz.

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±0.04V. Next check that the distortion is less than 1.3%.

10. 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 > RX-N757 MODEL

IHF Sensitivity:	4dB±6dB (87.5MHz)
(THD 3%)	2dB±6dB (98.0MHz)
	2dB±6dB (108.0MHz)
S/N 50dB Quieting sensitivity:	30dB±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

< FM SECTION > RX-N757R/656R MODELS

IHF Sensitivity:	7dB±6dB (87.5MHz)
(THD 3%)	4dB±6dB (98.0MHz)
	4dB±6dB (108.0MHz)
S/N 50dB Quieting sensitivity:	35dB±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 > EXCEPT LH, U MODELS

Sensitivity:	54dB±$\frac{8}{6}$dB (603kHz)
(S/N 20dB)	53dB±6dB (999kHz)
	53dB±6dB (1404kHz)
Distortion:	Less than 1.5% (999kHz)
Stereo separation:	More than 12dB (999kHz)
Intermediate frequency:	450kHz

< AM SECTION > LH, U MODELS

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

< SW1 SECTION > HE, HR, HK MODELS

Sensitivity:	32dB±$\frac{5}{3}$dB (3.20MHz)
(S/N 20dB)	29dB±$\frac{5}{3}$dB (5.00MHz)
	27dB±$\frac{5}{3}$dB (7.30MHz)
Distortion:	Less than 1.5% (5.00MHz)
Intermediate frequency:	450kHz

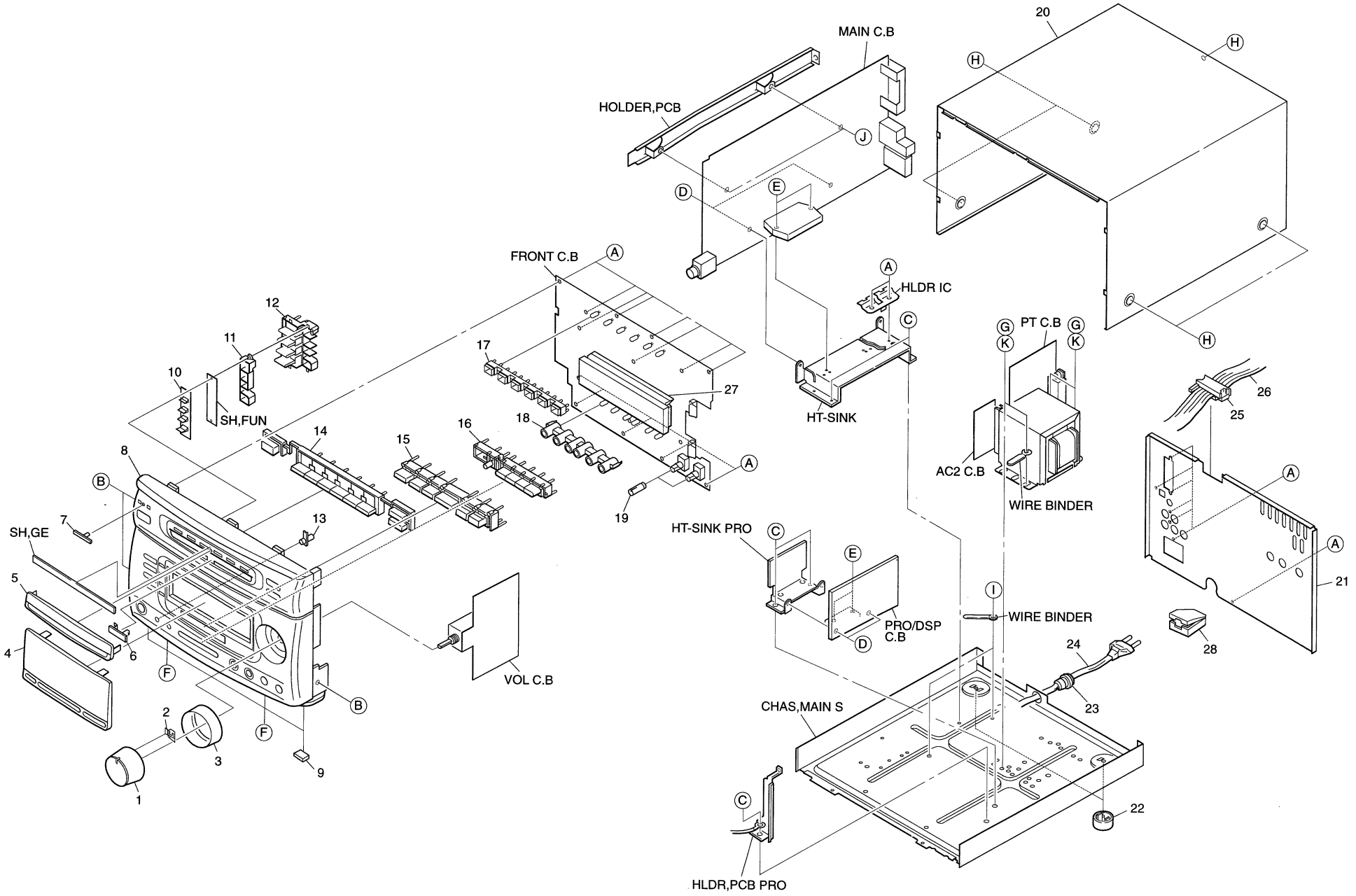
< SW2 SECTION > HE, HR, HK MODELS

Sensitivity:	45dB±5dB (9.50MHz)
(S/N 20dB)	40dB±5dB (15.00MHz)
	31dB±5dB (21.85MHz)
Distortion:	Less than 1.5% (15.00MHz)
Intermediate frequency:	450kHz

< LW SECTION > RX-N757R/656R MODELS

Sensitivity:	66dB±5dB (144kHz)
(S/N 20dB)	63dB±5dB (198kHz)
	62dB±5dB (290kHz)
Distortion:	Less than 1.5% (198kHz)
Intermediate frequency:	450kHz

MECHANICAL EXPLODED VIEW 1 ／ 1



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
1	85-NT3-005-019		KNOB,VOL
2	83-NEK-080-019		IND,VOL
3	83-NT4-011-019		RING,VOL
4	85-NT3-004-019		WIND,AMP<656REZ>
4	85-NT3-023-019		WIND,AMP P<HE,HK,HR,LH,U>
4	85-NT3-024-019		WIND,AMP R<K,EE,EZ>
5	83-NT4-008-019		WIND,GE
6	85-NT3-006-019		BADGE,RDS<656REZ,K,EE,EZ>
7	82-NE8-032-019		BADGE AIWA 27.5
8	85-NT3-008-019		CAB,FR EX<K,EE,EZ>
8	85-NT3-011-019		CAB,FR EX1<656REZ>
8	85-NT3-001-019		CAB,FR H<HE,HK,HR,LH>
8	85-NT3-009-019		CAB,FR U<U>
10	83-NT4-010-019		IND,FUN
11	83-NT4-202-019		GUIDE,LED FUN
12	83-NT4-005-219		KEY,FUN
13	83-NT4-014-019		LENS,SENSOR
14	83-NT4-004-019		KEY,POWER<HE,HK,HR,LH,U>
14	85-NT3-007-019		KEY,POWER EX<656REZ,K,EE,EZ>
15	83-NT4-006-019		KEY,OPE
16	83-NTE-005-019		KEY,KARAOKE 14
17	83-NT4-201-019		GUIDE,LED GE
18	83-NT4-203-019		GUIDE,LED OPE
19	84-CF3-009-019		KNOB,MIC
20	83-NTE-022-119		CAB,STEEL K
21	85-NT3-017-019		PANEL,REAR EEBN<EE>
21	85-NT3-019-019		PANEL,REAR EZ1BN<656REZ>
21	85-NT3-018-019		PANEL,REAR EZBN<EZ>
21	85-NT3-002-019		PANEL,REAR HEJBN<HE>
21	85-NT3-020-019		PANEL,REAR HKJBN<HK>
21	85-NT3-014-019		PANEL,REAR HRJBN<HR>
21	85-NT3-016-019		PANEL,REAR KBN<K>
21	85-NT3-015-019		PANEL,REAR LHBN<LH>
21	85-NT3-013-019		PANEL,REAR UBN<U>
22	87-085-213-019		FOOT, H12.5
23	87-085-185-019		BUSHING,AC CORD E<EXCEPT U>
23	87-085-189-019		BUSHING,CORD U<U>
⚠ 24	87-050-100-019		AC CORD ASSY K3P<K>
⚠ 24	87-050-053-019		AC CORD ASSY,U-2<U>
⚠ 24	87-050-079-019		AC-CORD ASSY,E<EXCEPT K,U>
25	89-VT5-202-010		BUSHING CORD
26	82-NT3-631-119		CORD FG 15P
27	83-NF5-202-019		GUIDE,FL
⚠ 28	87-099-811-018		PLUG,ADPTR CONV(K)<HK>
A	87-067-703-019		BVT2+3-10 (W/O SLOT)
B	87-591-094-419		QIT + 3 - 6 GOLD
C	87-067-688-019		BVTT +3-6
D	87-067-633-019		BVT2+3-8 W/CONVEX
E	87-067-581-019		BVT2+3-15 W/O SLOT
F	87-067-673-019		BVTT +3-8 BLK
G	87-067-975-019		S-SCREW IT+4-8<HE,HK,HR,LH>
G	87-078-019-019		S-SCREW,IT+4-6<656REZ,K,EE,U,EZ>
H	87-067-641-019		UTT2+3-8 W/O SLOT BLK
I	87-067-585-019		BVTT +4-6
J	87-078-084-019		BVTT+3-6 W,CONVEX
K	87-067-747-019		W,4.3-14-1<HE,HK,HR,LH>

MODEL NO.

FD-N757

ELECTRICAL MAIN PARTS LIST

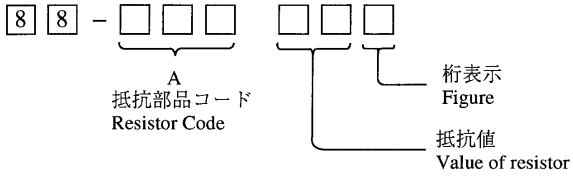
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DM6851
	87-020-758-019		IC,NJM2068SD
	87-001-607-089		IC,NJM4558M
	87-001-874-019		IC,HA12134A
	87-017-916-019		IC,BU4066BC
	85-NV3-610-010		IC,LC865008B-5803
TRANSISTOR			
	87-026-463-080		TR,2SA933S(RS)
	87-026-211-089		C-TR,DTA144EK T147
	87-026-210-089		C-TR,DTC144EK T147
	89-503-655-689		FET,2SK365GR BL
	89-327-125-089		C-TR,2SC2712GR
	89-111-625-089		C-TR,2SA1162GR
	89-333-317-089		TR,2SC3331T
	89-318-155-089		TR,2SC1815GR
	89-109-521-089		TR,2SA952K
	89-332-665-089		TR,2SC3266GR
	87-026-230-089		C-TR,DTA114YK
	87-026-213-089		C-TR,DTC114YK
DIODE			
	87-020-465-089		DIODE,ISS133
	87-020-125-089		C-DIODE,1SS181
	87-001-290-089		ZENER,HZS6B1L
	87-017-150-089		ZENER,HZS6A3L
MAIN C.B			
C101	87-012-156-089		C-CAP,S 220P-50 CH
C102	87-012-156-089		C-CAP,S 220P-50 CH
C103	87-010-197-089		C-CAP,S 0.01-25 B
C104	87-010-197-089		C-CAP,S 0.01-25 B
C105	87-010-426-089		C-CAP,S 0.012-25 B
C106	87-010-426-089		C-CAP,S 0.012-25 B
C107	87-010-189-089		C-CAP,S 8200P-50 B
C108	87-010-189-089		C-CAP,S 8200P-50 B
C109	87-010-198-089		C-CAP,S 0.022-25 B
C201	87-012-154-089		C-CAP,S 150P-50 CH
C202	87-012-154-089		C-CAP,S 150P-50 CH
C203	87-012-145-089		C-CAP,S 270P-50CH
C204	87-012-145-089		C-CAP,S 270P-50CH
C205	87-010-197-089		C-CAP,S 0.01-25 B
C206	87-010-197-089		C-CAP,S 0.01-25 B
C207	87-010-213-089		C-CAP,S 0.015-50 B
C208	87-010-213-089		C-CAP,S 0.015-50 B
C209	87-010-189-089		C-CAP,S 8200P-50 B
C210	87-010-189-089		C-CAP,S 8200P-50 B
C211	87-012-156-089		C-CAP,S 220P-50 CH
C212	87-012-156-089		C-CAP,S 220P-50 CH
C301	87-012-154-089		C-CAP,S 150P-50 CH
C302	87-012-154-089		C-CAP,S 150P-50 CH
C303	87-010-402-089		CAP,E 2.2-50 SME
C304	87-010-402-089		CAP,E 2.2-50 SME
C305	87-010-197-089		C-CAP,S 0.01-25 B
C306	87-010-197-089		C-CAP,S 0.01-25 B
C307	87-010-181-089		C-CAP,S 1800P-50 B
C308	87-010-181-089		C-CAP,S 1800P-50 B
C309	87-010-186-089		C-CAP,S 4700P-50 B
C310	87-010-186-089		C-CAP,S 4700P-50 B
C311	87-010-177-089		C-CAP,S 820P-50 SL
C312	87-010-177-089		C-CAP,S 820P-50 SL
C313	87-010-401-089		CAP,E 1-50 SME
C314	87-010-401-089		CAP,E 1-50 SME
C401	87-012-156-089		C-CAP,S 220P-50 CH
C402	87-012-156-089		C-CAP,S 220P-50 CH
C403	87-010-178-089		C-CAP,S 1000P-50 B
C405	87-010-260-089		CAP,E 47-25 SME
C406	87-010-197-089		C-CAP,S 0.01-25 B
C407	87-010-183-089		C-CAP,S 2700P-50 B
C408	87-010-183-089		C-CAP,S 2700P-50 B
C409	87-010-183-089		C-CAP,S 2700P-50 B
C410	87-010-196-089		C-CAP,S 0.1-25 F
C411	87-010-198-089		C-CAP,S 0.022-25 B
C501	87-012-142-089		C-CAP,S 0.33-16 F
C502	87-012-142-089		C-CAP,S 0.33-16 F
C503	87-010-178-089		C-CAP,S 1000P-50 B
C504	87-010-178-089		C-CAP,S 1000P-50 B
C505	87-012-155-089		C-CAP,S 180P-50 CH
C506	87-012-155-089		C-CAP,S 180P-50 CH
C507	87-010-401-089		CAP,E 1-50 SME
C508	87-010-401-089		CAP,E 1-50 SME
C509	87-010-545-089		CAP,E 0.22-50 SME
C510	87-010-545-089		CAP,E 0.22-50 SME
C511	87-010-371-089		CAP,E 470-6.3
C512	87-015-819-089		CHIP CAP 0.01
C513	87-010-318-089		C-CAP,S 47P-50 CH
C514	87-010-197-089		C-CAP,S 0.01-25 B
C515	87-010-400-089		CAP,E 0.47-50 SME
C516	87-010-405-089		CAP,E 10-50 SME
C519	87-010-401-089		CAP,E 1-50 SME
C520	87-010-401-089		CAP,E 1-50 SME
C521	87-010-197-089		C-CAP,S 0.01-25 B
C522	87-010-184-089		C-CAP,S 3300P-50 B
C601	87-010-235-089		CAP,E 470-16 SME
C602	87-010-381-089		CAP,E 330-16 SME
C603	87-010-101-089		CAP,E 220-16 SME
C604	87-010-980-089		CAP,E 330-16 FS
C605	87-010-263-089		CAP,E 100-10 SME 5X11
C606	87-018-134-089		CAP,TC-U 0.01-16 Y
C901	87-010-197-089		C-CAP,S 0.01-25 B
C902	87-010-402-089		CAP,E 2.2-50 SME
C903	87-010-196-089		C-CAP,S 0.1-25 F
C905	87-010-186-089		C-CAP,S 4700P-50 B
C906	87-010-186-089		C-CAP,S 4700P-50 B
C907	87-010-196-089		C-CAP,S 0.1-25 F
C908	87-010-196-089		C-CAP,S 0.1-25 F
C950	87-018-209-089		CAP,TC-U 0.1-50 F
C951	87-018-209-089		CAP,TC-U 0.1-50 F<YU>
CON907	82-NV3-624-019		CONN ASSY,7P MECHA 1
CON908	82-NV3-625-019		CONN ASSY,10P MECHA2
EMI601	87-008-372-089		FLTR,EMI BL 01RN1
EMI604	87-008-372-089		FLTR,EMI BL 01RN1
EMI605	87-008-372-089		FLTR,EMI BL 01RN1
FC1	82-NV3-629-019		CABLE FFC,4P-1.25
FC2	83-NV4-618-019		CABLE FFC,6P-1.25
FC3	83-NV4-617-019		CABLE FFC,13P-1.25-R
FC4	82-NV3-626-019		CABLE FFC,6P-1.25
L301	87-005-525-089		COIL,22MH-J
L302	87-005-525-089		COIL,22MH-J
L303	87-005-580-089		COIL,10MHJ
L304	87-005-580-089		COIL,10MHJ
L401	82-NV3-610-019		COIL,OSC BIAS 85K
L402	87-005-126-089		COIL,1MH
R727	87-022-394-089		RES,NF 0.47-1/4W
SFR101	87-024-168-089		SFR,1K DIA6 V

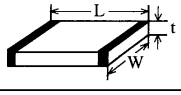
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
SFR102	87-024-168-089		SFR,1K DIA6 V
SFR201	87-024-168-089		SFR,1K DIA6 V
SFR202	87-024-168-089		SFR,1K DIA6 V
SFR301	87-024-171-089		SFR,4.7K DIA6 V
SFR302	87-024-171-089		SFR,4.7K DIA6 V
SFR401	87-024-175-089		SFR,47K DIA6 V
SFR402	87-024-175-089		SFR,47K DIA6 V
X901	87-030-264-089		CERA LOCK(MU)12.0MHZ
FRONT A C.B			
LED801	87-017-972-080		LED,SEL 2515C TP2
LED803	87-017-973-080		LED,SEL 2515C TP3
LED805	87-017-973-080		LED,SEL 2515C TP3
S801	87-036-215-089		SW,TACT EVQ21404M
S802	87-036-215-089		SW,TACT EVQ21404M
S803	87-036-215-089		SW,TACT EVQ21404M
S804	87-036-215-089		SW,TACT EVQ21404M
S805	87-036-215-089		SW,TACT EVQ21404M
FRONT B C.B			
LED701	87-070-108-019		LED,SLF-301C-37
LED702	87-070-108-019		LED,SLF-301C-37
S806	87-036-215-089		SW,TACT EVQ21404M
S807	87-036-215-089		SW,TACT EVQ21404M
S808	87-036-215-089		SW,TACT EVQ21404M
S809	87-036-215-089		SW,TACT EVQ21404M
S810	87-036-215-089		SW,TACT EVQ21404M
TAPE-1 C.B			
SOL1	82-ZM1-618-310		SOL ASSY,27
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
TAPE-2 C.B			
SFR1	87-024-170-080		SFR,3.3K DIA6 V
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
RELAY-1 C.B			
RELAY-2 C.B			
CON201	82-NV3-623-019		CONN ASSY,6P HEAD 2

○ 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 Coading



チップ抵抗
Chip resistor

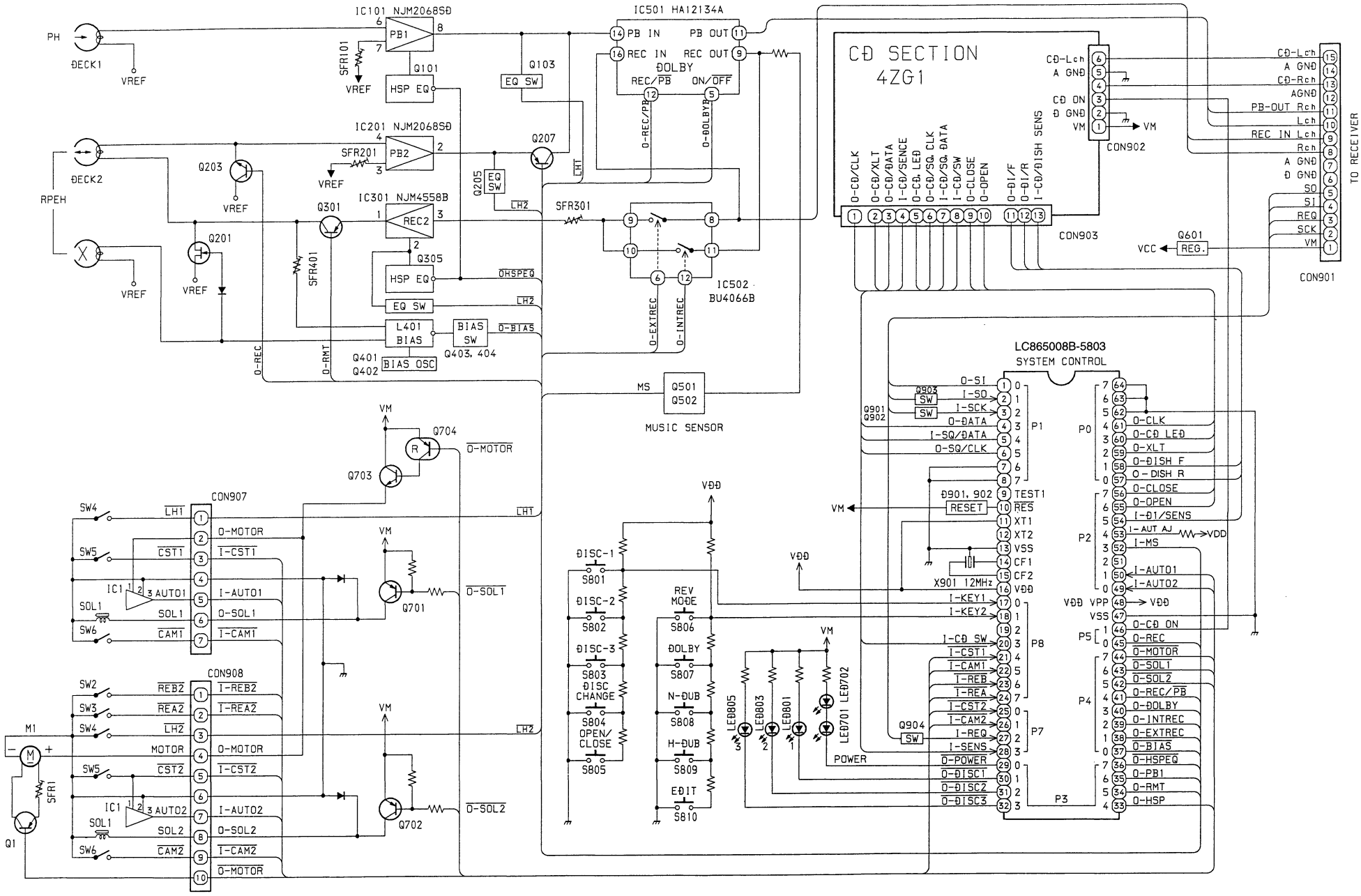
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form／外形	L	W	t	Resistor Code: A 抵抗コード : A
1／32W	1608	±5%	CJ		1.6	0.8	0.35	108
1／10W	2125	±5%	CJ		2	1.25	1.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.5 ～0.7	128

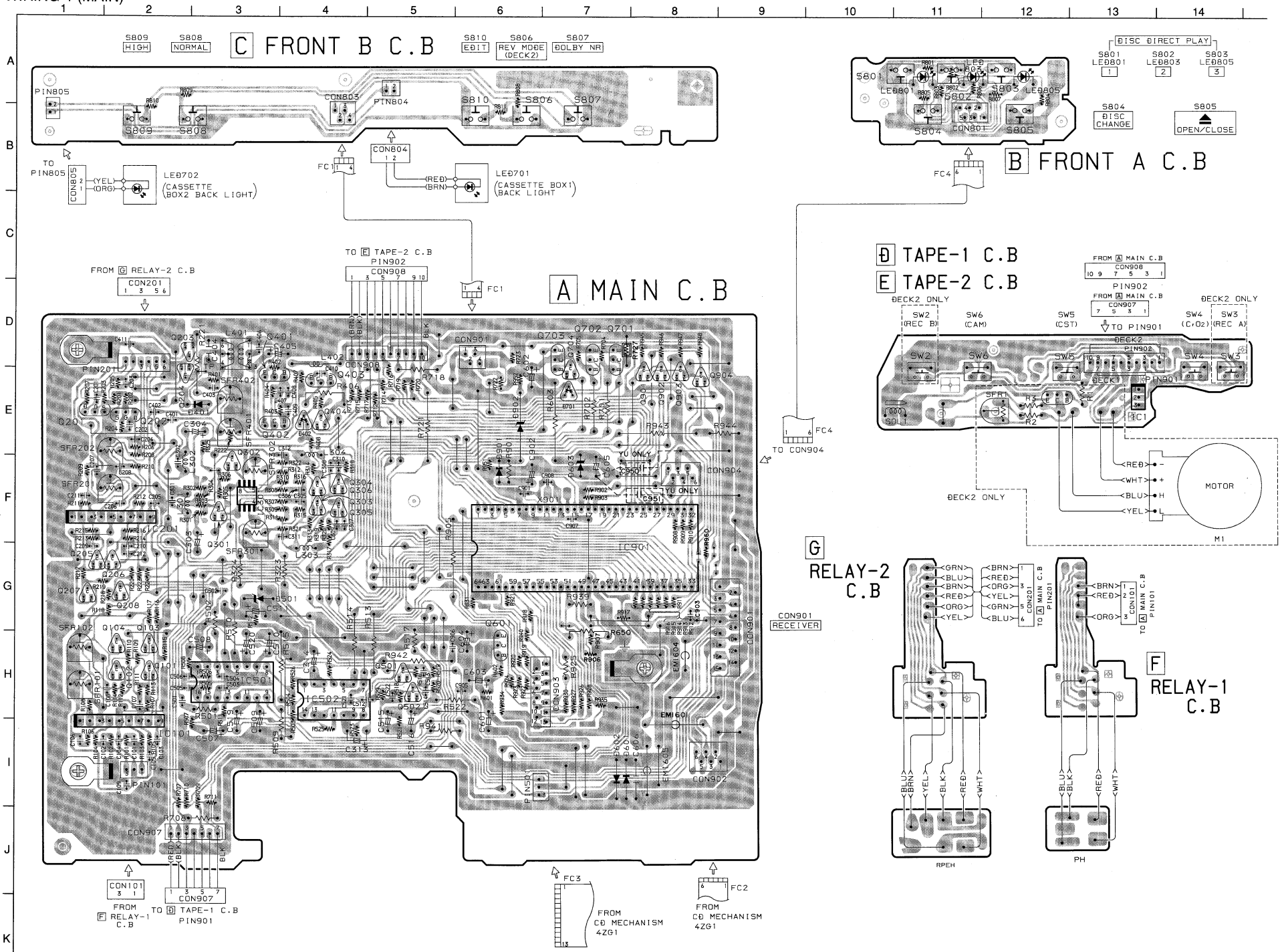
IC DESCRIPTION

IC, LC865008B-5582

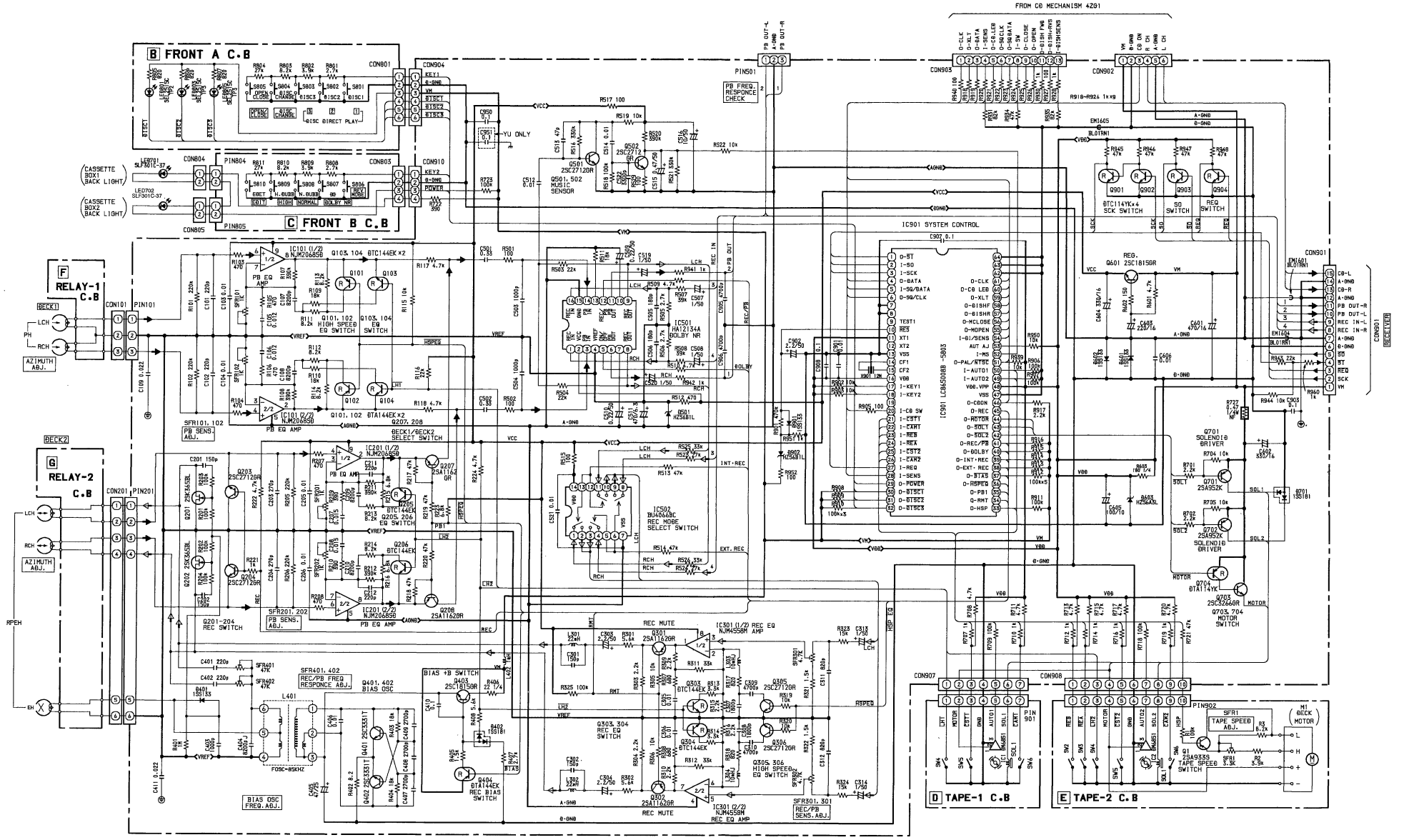
Pin No.	Pin Name	I/O	Description
1	O-SI	O	Serial data output.
2	I-SO	I	Serial data input.
3	I-SCK	I	Serial clock input.
4	O-DATA	O	Serial data output.
5	I-SQ/DATA	I	Sub-code input from CD.
6	O-SQ/CLK	O	Clock output for CD subcode input.
7	—	—	Not used. (Connected to GND)
8	—	—	Not used. (Connected to GND)
9	TEST1	—	Not used.
10	$\overline{\text{RES}}$	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-$\overline{\text{SW CST1}}$	I	Input from DECK-1 tape detector.
22	I-$\overline{\text{SW CAM1}}$	I	Input from DECK-1 cam switch detector.
23	I-$\overline{\text{SW REB}}$	I	Input from B side record safety claw detector.
24	I-$\overline{\text{SW REA}}$	I	Input from A side record safety claw detector.
25	I-$\overline{\text{SW CST2}}$	I	Input from DECK-2 tape detector.
26	I-$\overline{\text{SW CAM2}}$	I	Input from DECK-2 cam switch detector.
27	I-REQ	I	Data request input.
28	I-SENS	I	Control sense input.
29	O-$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
30	O-$\overline{\text{DISC1}}$	O	Output to illuminate "1" button.
31	O-$\overline{\text{DISC2}}$	O	Output to illuminate "2" button.
32	O-$\overline{\text{DISC3}}$	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-$\overline{\text{HSPEQ}}$	O	Equalizer selection during high speed dubbing.
37	O-$\overline{\text{BIAS}}$	O	Output to bias switch.
38	O-EXTREC	O	Mixing recording (except synchro dubbing) ON/$\overline{\text{OFF}}$ output from tape to tape.
39	O-INTREC	O	Recording ON/$\overline{\text{OFF}}$ output except mixing dubbing.
40	O-DOLBY	O	Dolby selection (ON/OFF) output to Dolby IC
41	O-REC/$\overline{\text{PB}}$	O	Output to Dolby IC for its input selection(REC/PB).
42	O-$\overline{\text{SOL2}}$	O	Solenoid output to DECK-2
43	O-$\overline{\text{SOL1}}$	O	Solenoid output to DECK-1
44	O-$\overline{\text{MOTOR}}$	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/$\overline{\text{NTSC}}$	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.
60	O-CD LED	O	CD flash window LED ON/$\overline{\text{OFF}}$ output.
61	O-CD CLK	O	Control data transfer clock output.
62	—	—	Not used (Connected GND)
63	—	—	Not used (Connected GND)
64	—	—	Not used (Connected GND)

BLOCK DIAGRAM-1




C FRONT B C.B
S809 HIGH
S808 NORMAL
S810 EDIT
S806 REV MODE (DECK2)
S807 DOLBY NR
PIN805
PIN804
CON803
CON804
TO PIN805
CON805
LED702 (CASSETTE (BOX2 BACK LIGHT)
LED701 (CASSETTE BOX1) (BACK LIGHT
FC1
B FRONT A C.B
DISC DIRECT PLAY
S801 LED801
S802 LED803
S803 LED805
S804 DISC CHANGE
S805 OPEN/CLOSE
CON801
FC4
A MAIN C.B
FROM G RELAY-2 C.B
CON201
TO E TAPE-2 C.B
PIN902
CON908
CON901
CON902
CON903
CON904
CON907
PIN101
PIN201
PIN501
IC201
IC501
IC502
IC901
TO CON904
CON901 RECEIVER
FROM F RELAY-1 C.B
TO D TAPE-1 C.B PIN901
FC3
FROM CD MECHANISM 4ZG1
FC2
FROM CD MECHANISM 4ZG1
D TAPE-1 C.B
E TAPE-2 C.B
FROM A MAIN C.B CON908
PIN902
FROM A MAIN C.B CON907
TO PIN901
DECK2 ONLY
SW2 (REC B)
SW6 (CAM)
SW5 (CST)
SW4 (CrO2)
SW3 (REC A)
DECK1
DECK2
MOTOR
M1
G RELAY-2 C.B
F RELAY-1 C.B
CON201
CON101
TO A MAIN C.B PIN201
TO A MAIN C.B PIN101
RPEH
PH

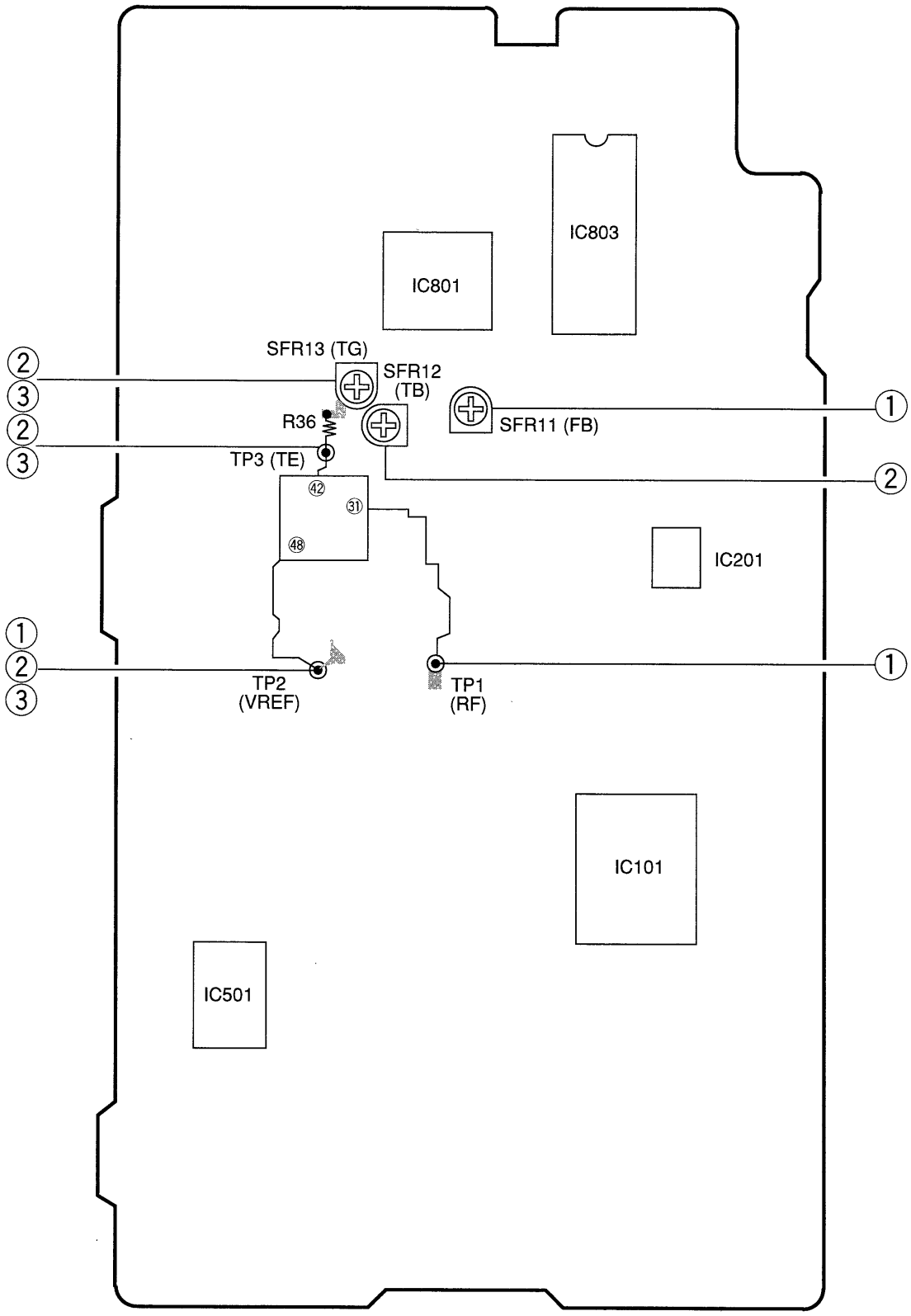
SCHEMATIC DIAGRAM-1 (MAIN)



ELECTRICAL ADJUSTMENT

(CD SECTION)

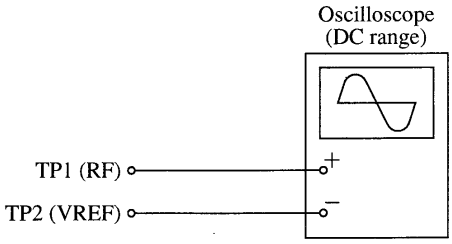
A 3CD C.B



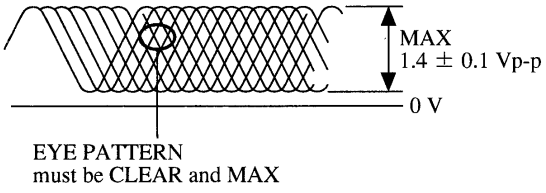
Note: Connect a probe (10: 1) of the oscilloscope or the frequency counter to a test point.

1. Focus Bias Adjustment

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

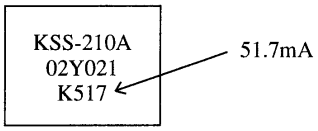


1) Connect an oscilloscope to test points TP1 (RF) and TP2 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4) Adjust SFR11 so that RF signal of test point TP1 (RF) is MAX and CLEARREST.



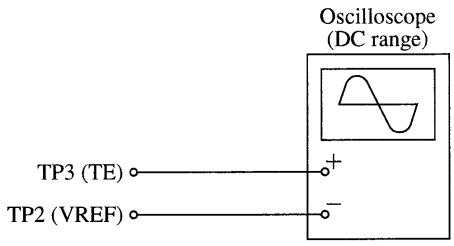
VOLT/DIV : 0.5 V
TIME/DIV : 1 μ S

Note: The current of the laser signal can be checked with the voltages on both sides of R28 (10Ω). The difference for the specified value shown on the lavel must be within ± 6.0mA.

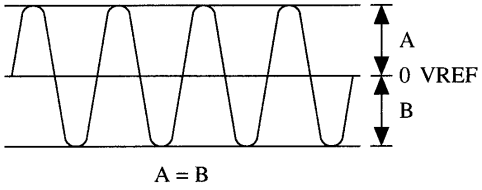


$$\text{Laser current Iop} = \frac{\text{Voltage across R28}}{10\Omega}$$

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.



A = B

VOLT/DIV : 200mV
TIME/DIV : 1mS

3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therfore, 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 the gain adjustment is off, the symptoms below appear.

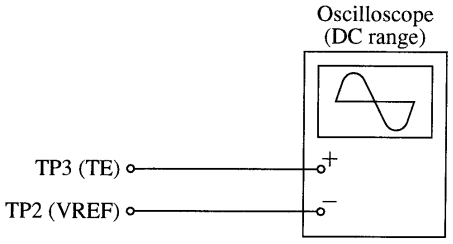
Symptoms \ Gain	(Focus)	Tracking
● The time until music starts becomes longer for STOP→▶PLAY or automatic selection (⏮, ⏭ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP →▶PLAY or automatic selection (⏮, ⏭ buttons pressed.)	—	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.

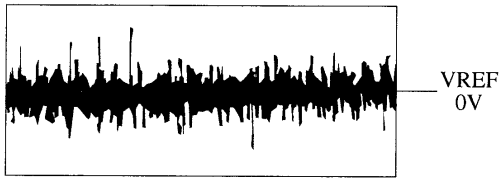
— Simple adjustment —

Note: Since the 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 SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



VOLT/DIV: 50 mV
TIME/DIV: 1 mS

● Incorrect example

Low tracking gain

The fundamental wave appears as compared with the waveform adjusted.

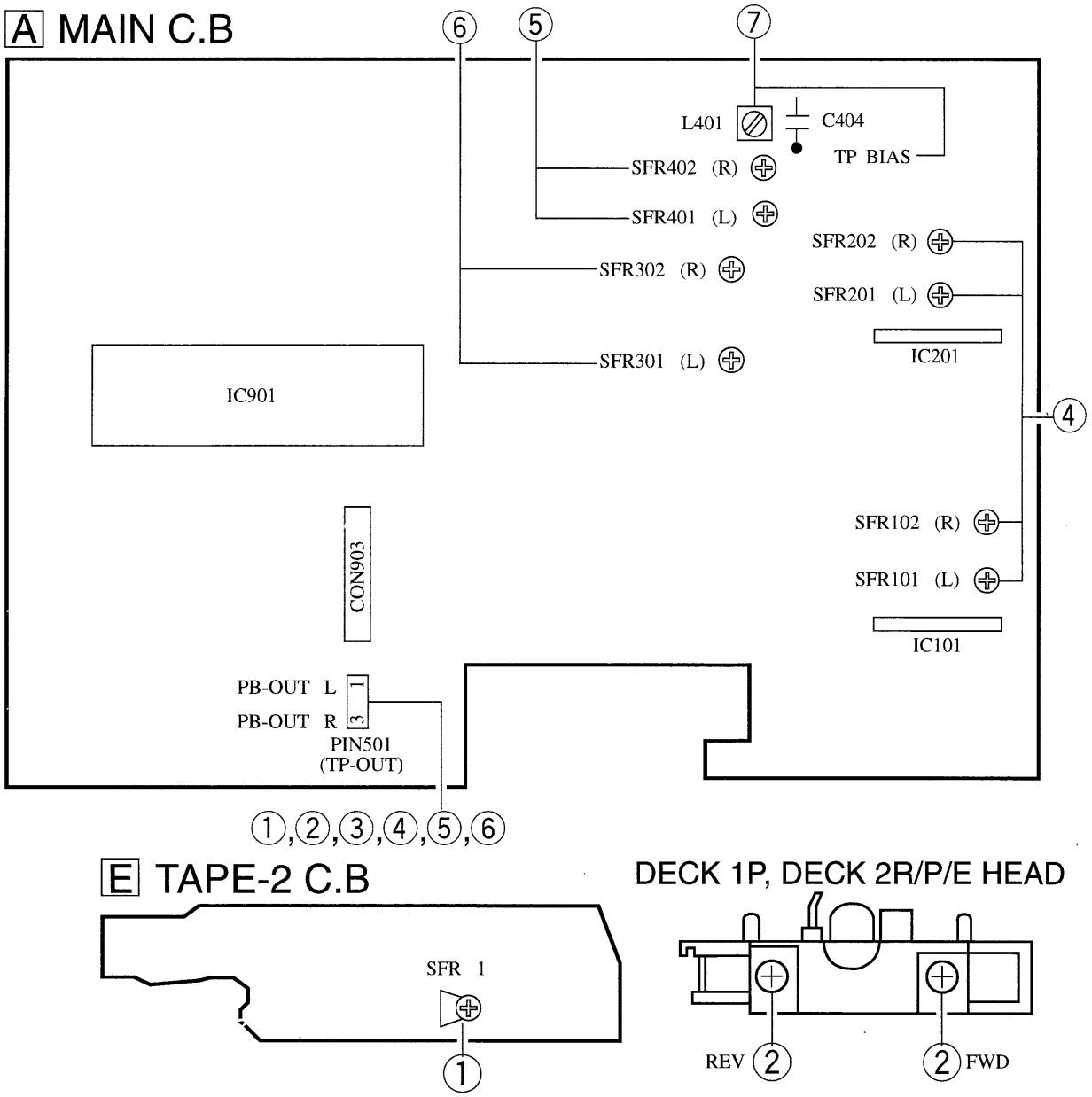
VOLT/DIV: 50 mV
TIME/DIV: 1 mS

High tracking gain

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

VOLT/DIV: 50 mV
TIME/DIV: 1 mS

(TAPE SECTION)



1. Tape Speed Adjustment
   Settings:
   - Test tape: TTA-100
   - Test point: TP CONN 3P (PIN501) ①, ③
   - Adjustment location: SFR1

   Method: Play back the test tape by DECK Ⅱ and adjust SFR1 so that the frequency counter reads 3000Hz±5Hz.

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.

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 ±2dB.

4. PB Sensitivity Adjustment
   Settings:
   - Test tape: TTA-200
   - Test point: TP CONN 3P (PIN501) ①, ③ (load 47KΩ)
   - Adjustment location:
     (Ⅰ DECK) SFR101 (L ch)
     SFR102 (R ch)
     (Ⅱ DECK) SFR201 (L ch)
     SFR202 (R ch)

Method: Play back the test tape and adjust SFRs so that the output level of the test point Ⅰ DECK is 320mV, Ⅱ DECK 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 (L ch)
     SFR402 (R ch)

   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 $0dB\pm{}^{0}_{0.5}dB$ with respect to that of the 1kHz signals.

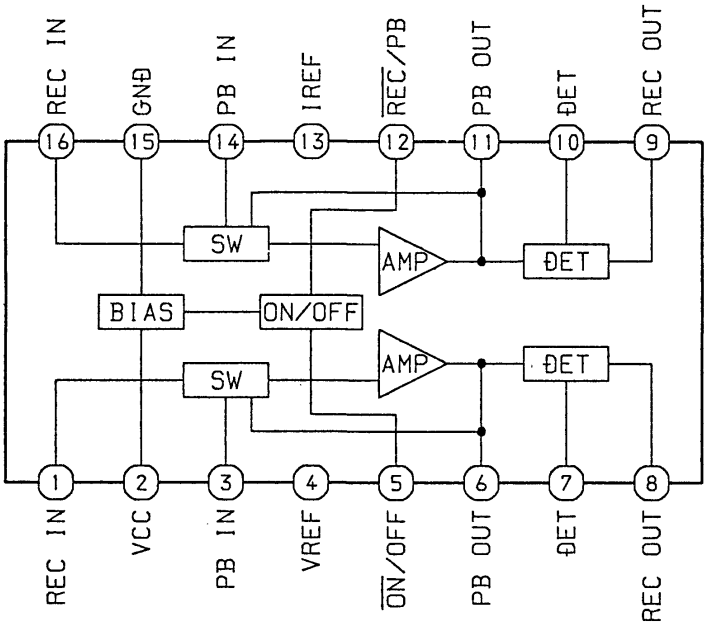
6. REC/PB Sensitivity Adjustment
   Settings:
   - Test tape: TTA-601 (TTA-600)
   - Test point: TP CONN 3P (PIN501) ①, ③
   - Input signal: 1kHz (VIDEO/AUX)
   - Adjustment location: SFR301 (L ch)
     SFR302 (R ch)

PRACTICAL SERVICE FIGURE

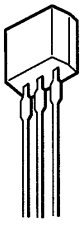
Tape speed:	3000Hz±45Hz
Wow & flutter:	Less than 0.4% (R.M.S)
Take-up torque:	30~55g-cm (FWD, REV)
F. F torque:	75~180g-cm
Rew torque:	75~180g-cm
Back tension:	2~7g-cm
PB Output level:	2.5±1.0dB (SP OUT)
REC/PB Output level:	1.75±1.0dB (SP OUT)
Distortion (REC/PB):	Less than 2% (NORM, CrO_2)
Noise level (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

IC BLOCK DIAGRAM

IC, HA12134A



TRANSISTOR ILLUSTRATION

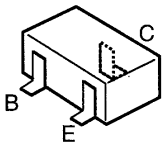


ECB

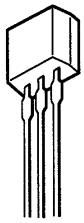
2SA933

ECB

2SA952
2SC1815
2SC3266
2SC3331



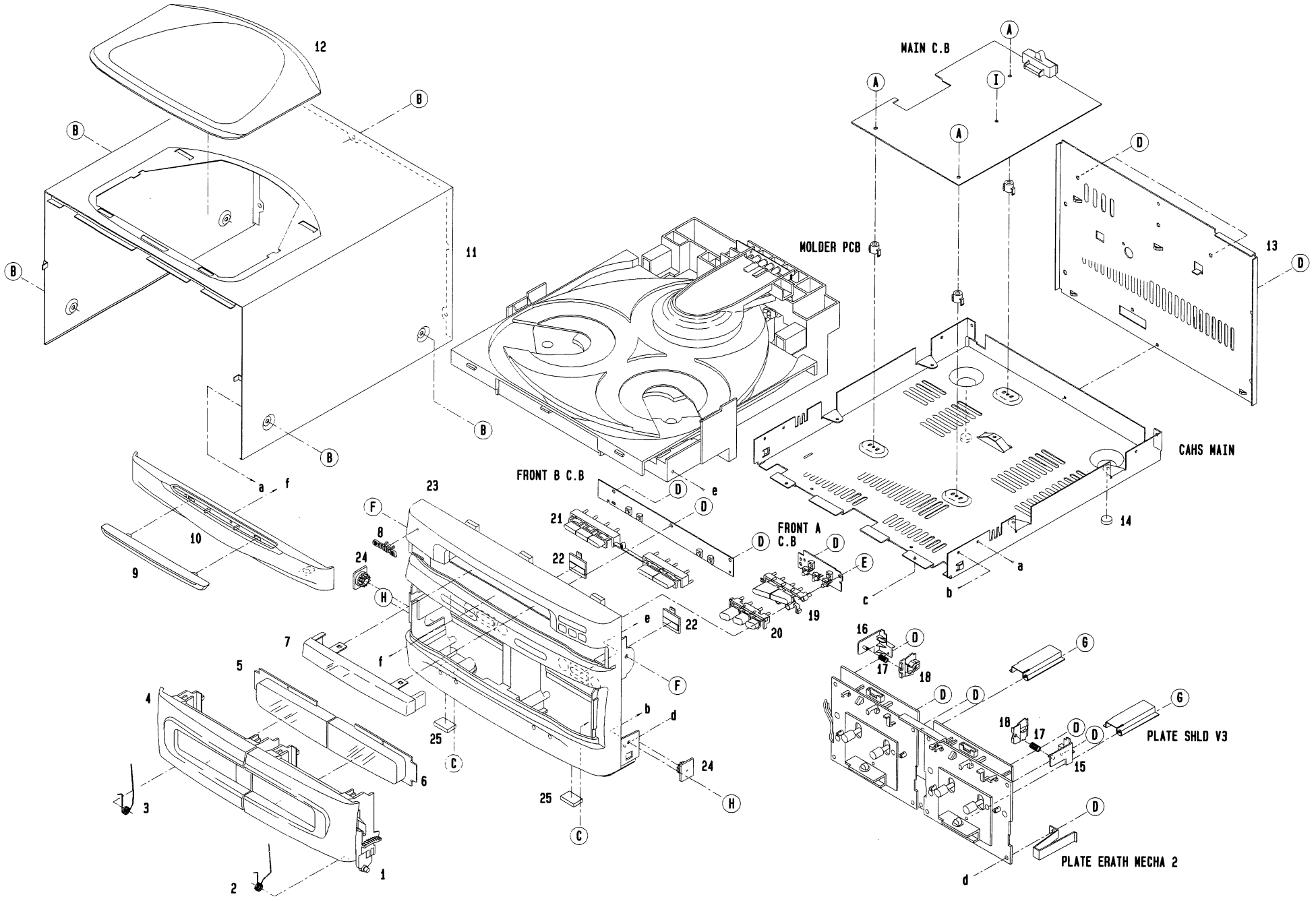
2SA1162
2SC2712
DTA114
DTA144
DTC114
DTC144



DGS

2SK365

MECHANICAL EXPLODED VIEW 1 ／ 1

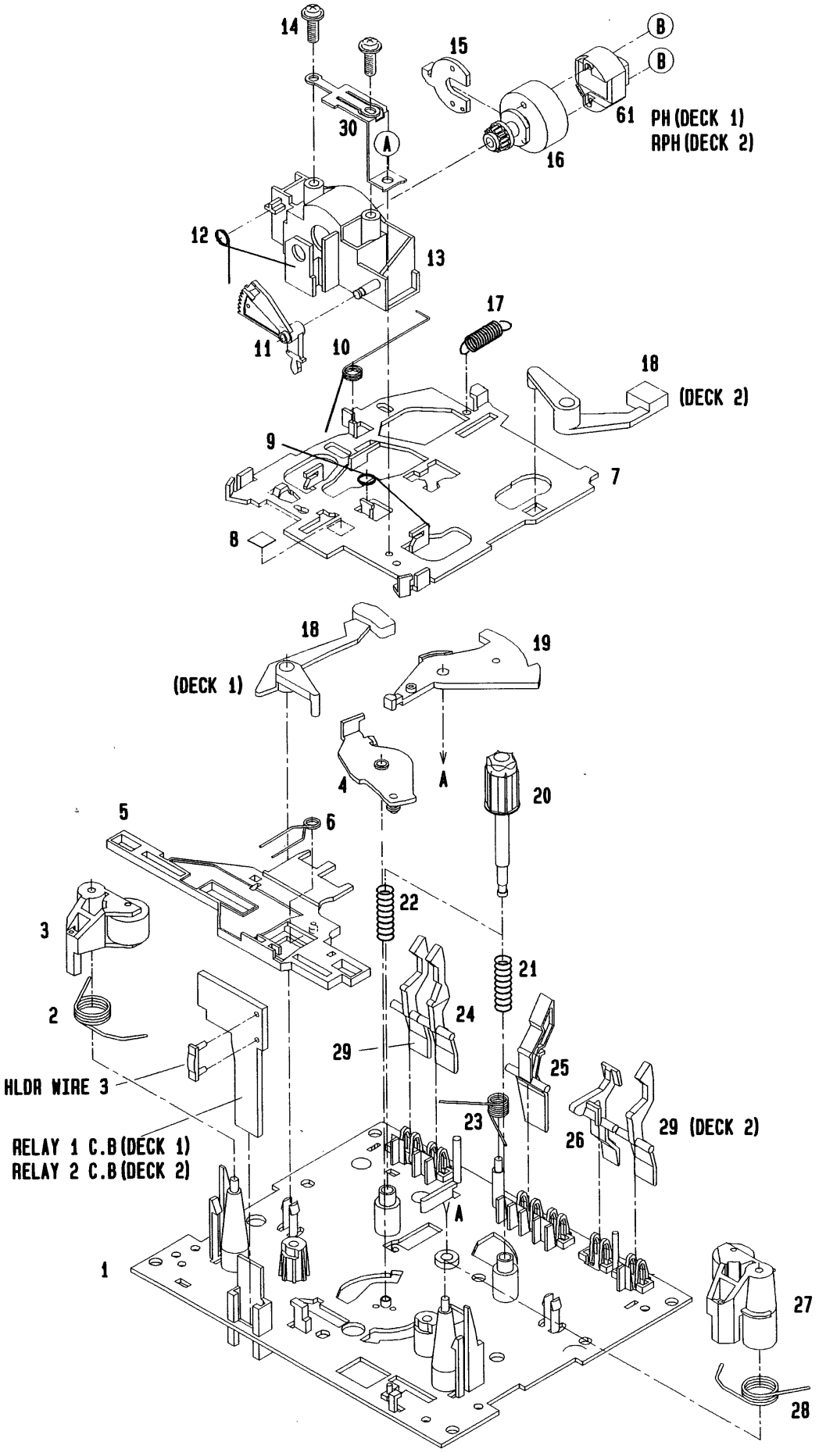


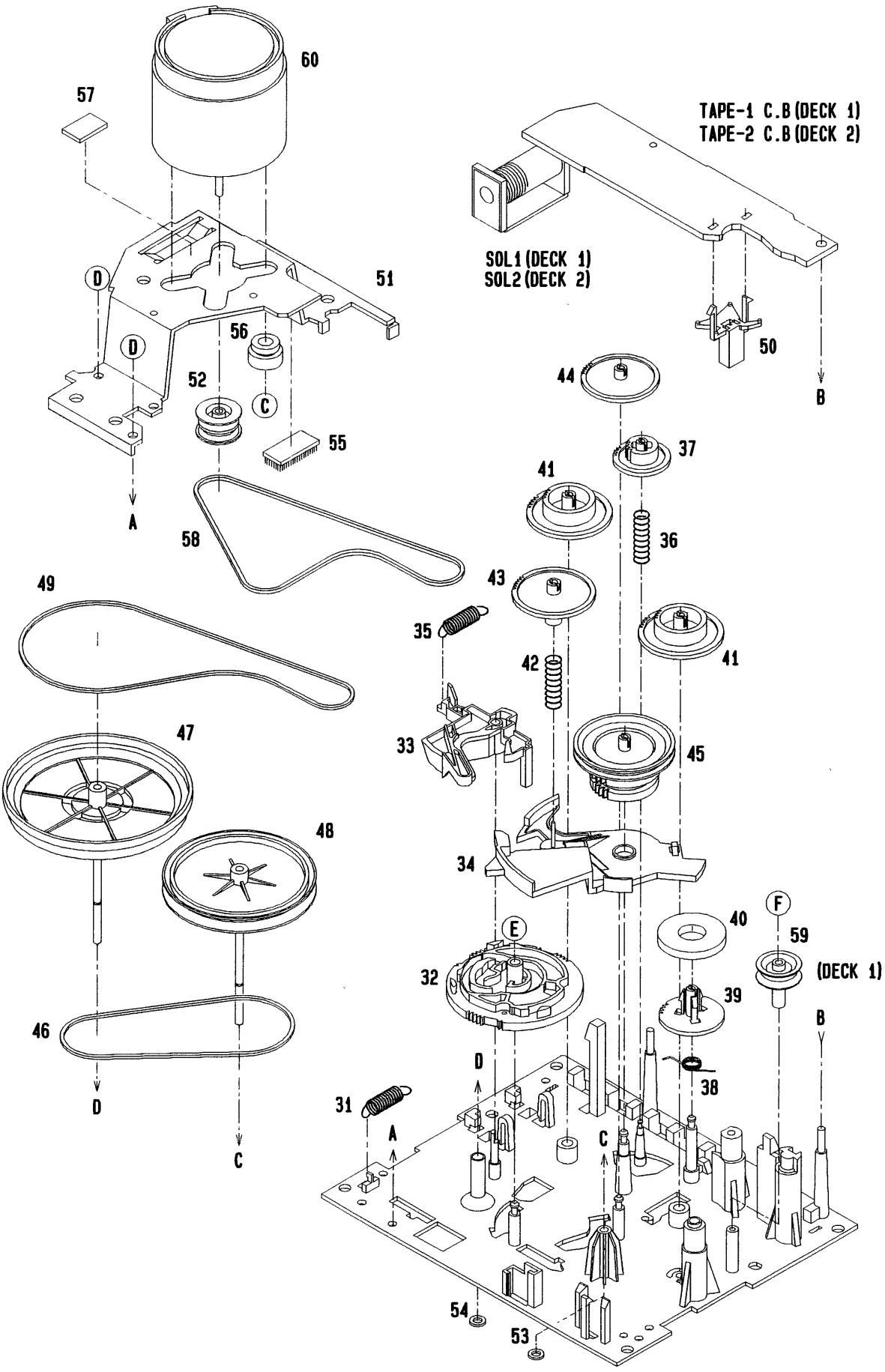
MECHANICAL PARTS LIST 1 ／ 1

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
1	83-NV4-014-019		WINDOW,BOX 2
2	83-NV4-202-119		SPR-T,EJECT 2
3	83-NV4-201-119		SPR-T,EJECT 1
4	83-NV4-013-019		WINDOW,BOX 1
5	85-NV3-003-019		BOX,CASS 1
6	85-NV3-004-019		BOX,CASS 2
7	85-NV3-006-019		WINDOW,CD
8	82-NE8-032-019		BADGE AIWA 27.5
9	83-NV4-006-019		DUMMY,TRAY
10	85-NV3-005-019		PANEL,TRAY
11	83-NV4-011-119		CAB,STEEL
12	83-NF5-021-019		WINDOW,TOP
13	85-NV3-009-019		PANEL,REAR YBN<Y>
13	85-NV3-008-019		PANEL,REAR YUBN<YU>
14	82-NV1-213-019		FELT,DIA 12-2
15	82-NF5-227-019		HLDR,LOCK 2N
16	82-NF5-226-019		HLDR,LOCK 1N
17	82-NF5-228-019		SPR-C,LOCK
18	82-NF5-229-019		PLATE,LOCK
19	83-NV4-007-019		KEY,OPEN
20	83-NV4-008-01K		KEY,DISC
21	83-NV4-009-019		KEY,DOLBY
22	87-070-108-019		LED,SLF-301C-37
23	85-NV3-002-019		CAB,FR<Y>
23	85-NV3-007-019		CAB,FR U<YU>
24	87-063-165-019		OIL-DMPR 150
25	83-NV4-203-019		FELT,15.5-12.5-2HB
A	87-067-632-019		BVT2+3-15 W CONVEX
B	87-067-641-019		UTT2+3-8(W/O SLOT)BK
C	87-067-673-019		BVTT+3-8 BLK
D	87-067-703-019		BVT2+3-10(W/O SLOT)
E	87-067-758-019		BVT2+3-12 W/O SLOT
F	87-721-097-419		QT2+3-12 GLD
G	87-571-032-419		VIT+2-3
H	87-591-094-419		QIT+3-6GLD
I	87-067-579-019		BVT 2+3-8 W/O SLOT

TAPE MECHANISM EXPLODED VIEW 1 / 1



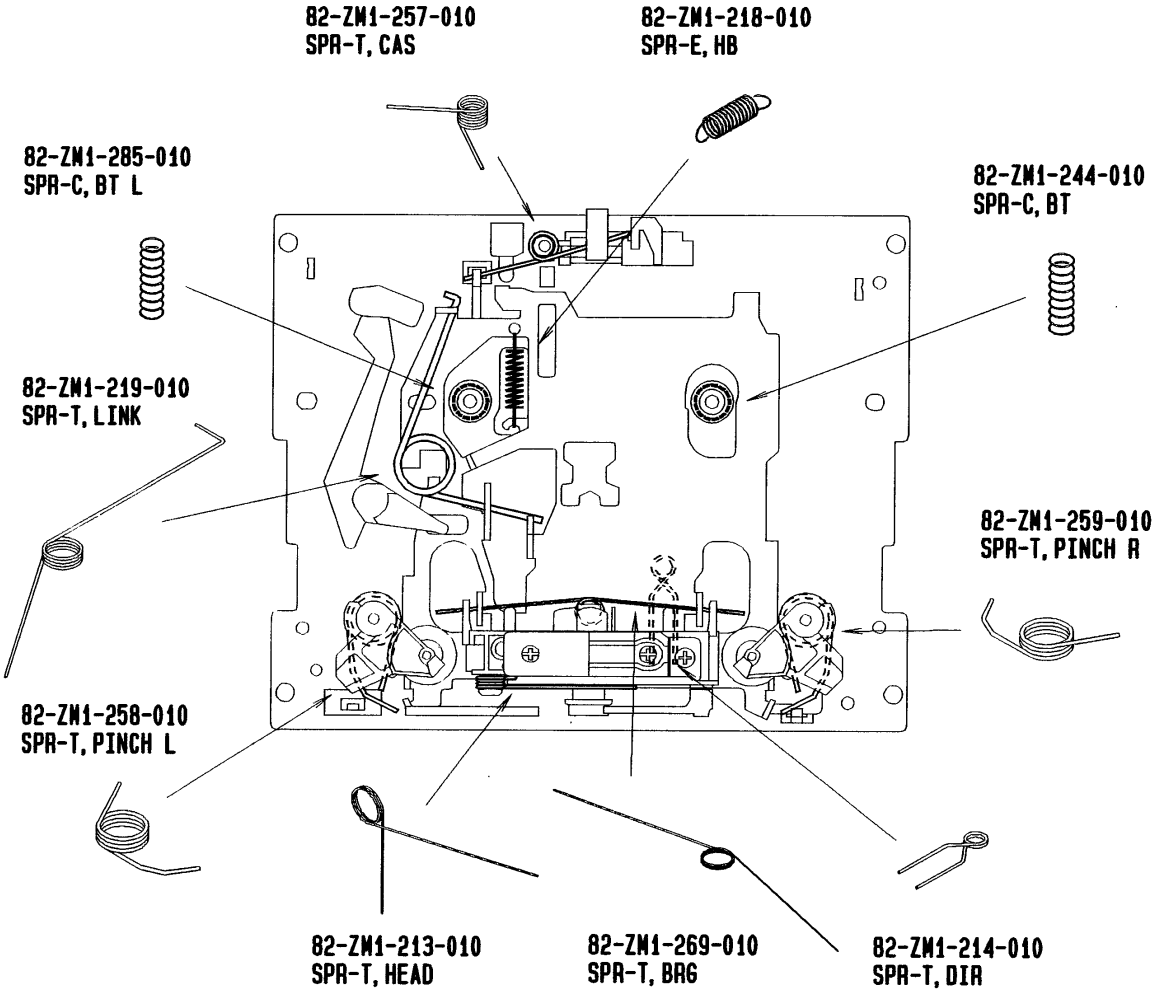

TAPE-1 C.B (DECK 1)
TAPE-2 C.B (DECK 2)
SOL1 (DECK 1)
SOL2 (DECK 2)
(DECK 1)

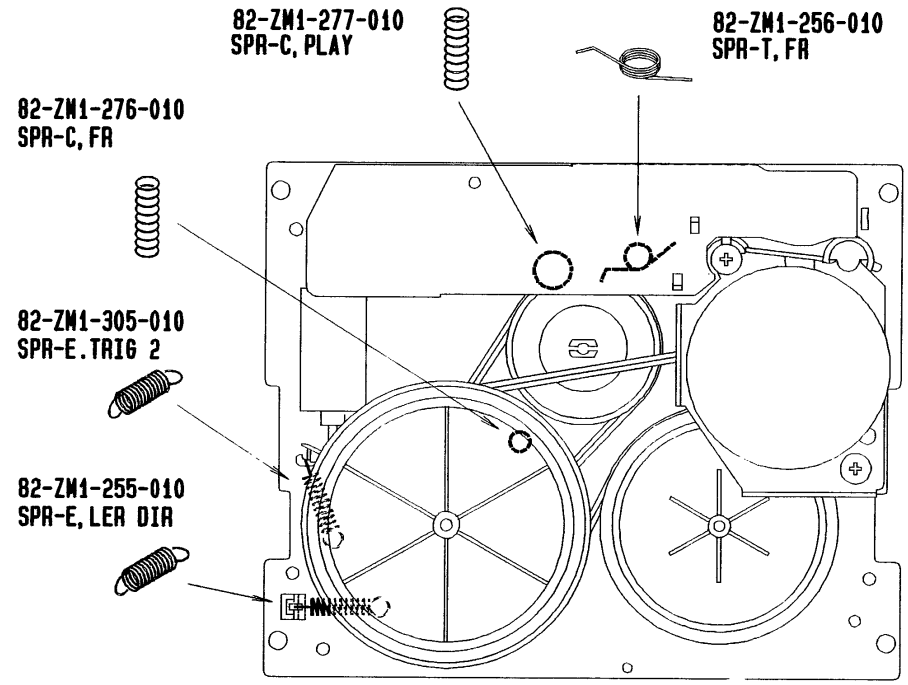
TAPE MECHANISM PARTS LIST 1 ／ 1

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
1	82-ZM3-214-110		CHAS ASSY,P (DECK 1)
1	82-ZM1-299-010		CHAS ASSY,R (DECK 2)
2	82-ZM1-258-010		SPR-T,PINCH L
3	82-ZM1-248-110		LVR ASSY,PINCH L
4	82-ZM1-295-210		PLATE ASSY,LINK
5	82-ZM1-266-010		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-210		CHAS,HEAD
8	87-078-014-010		SH,5-5-0.05
9	82-ZM1-269-010		SPR-T,BRG
10	82-ZM1-219-010		SPR-T,LINK
11	82-ZM1-210-010		GEAR,H T
12	82-ZM1-213-010		SPR-T,HEAD
13	82-ZM1-207-010		GUIDE,TAPE
14	82-ZM1-283-210		S-SCREW,AZIMUTH
15	82-ZM1-209-010		PLATE,HEAD
16	82-ZM1-208-010		HLDR,HEAD
17	82-ZM1-218-010		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-010		LVR,PLAY
20	82-ZM1-217-110		REEL TABLE
21	82-ZM1-244-110		SPR-C,BT
22	82-ZM1-285-110		SPR-C,BT L
23	82-ZM1-257-010		SPR-T,CAS
24	82-ZM1-241-110		LVR,MC
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	82-ZM1-253-110		LVR ASSY,PINCH R
28	82-ZM1-259-010		SPR-T,PINCH R
29	82-ZM1-240-110		LVR,REC (DECK 2)
30	82-ZM1-298-010		SPR-P,EARTH
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
39	82-ZM1-220-210		GEAR,IDLER
40	80-ZM6-217-010		RING MAGNET 2
41	82-ZM1-216-210		GEAR,REEL
42	82-ZM1-276-010		SPR-C,FR
43	82-ZM1-225-010		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM1-228-210		SLIP DISK ASSY
46	82-ZM1-261-110		BELT,FR
47	82-ZM1-237-210		FLY-WHL ASSY,R (DECK 2)
47	82-ZM3-209-110		FLY-WHL ASSY,R2 (DECK 1)
48	82-ZM1-234-110		FLY-WHL ASSY,L (DECK 2)
48	82-ZM3-207-210		FLY-WHL ASSY,L2 (DECK 1)
49	82-ZM3-206-010		BELT,R
50	82-ZM1-245-210		HLDR,IC
51	82-ZM3-201-010		HLDR,MC
52	82-ZM3-202-010		PULLEY,MOT 2M
53	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
55	80-ZM6-230-010		SH,BELT
56	86-575-242-010		CUSH-G,DIA3.7-9-3.2
57	86-575-361-010		CUSH-G,6-8-0.8
58	82-ZM3-205-010		BELT,L
59	82-ZM3-204-010		PULLEY,COUPLER (DECK 1)
60	87-045-347-010		MOT,SHU2L 70(M1)
61	87-046-355-010		HEAD,PH HADKH2529B(PH)
61	87-046-356-010		HEAD,RPH HADKH5581B(RPH)
A	87-585-036-410		UIT+2-8
B	80-ZM6-207-010		V+1.6-7
C	82-ZM1-309-010		S-SCRW,MOTOR
D	87-067-178-010		VTT+2.6-3
E	87-067-932-010		PW,2.15-6.8-0.5 SLT
F	87-067-972-010		PW,1.05-3-0.25 SLT

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, CERA-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-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

サービス技術ニュース	
番 号	連絡内容
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