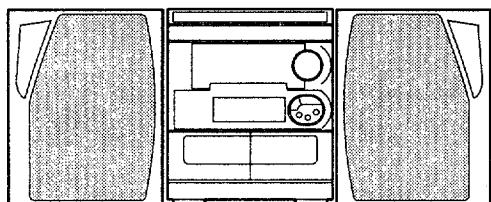


aiwa



NSX-S32 NSX-S33 NSX-S36 NSX-S37



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM<LH,G>
2ZM-3MK2 YPR4N<HE>, 6ZM-3 PR2NM<HS>
- BASIC CD MECHANISM : 4ZG-1 Z1DNM

• TYPE : LH,HE,HS,G

SYSTEM	SPEAKER	CD - CASSEIVER
NSX-S32 (TYPE : HS)	SX - NS30	CX-NS32
NSX-S33 (TYPE : G)		CX-NS33
NSX-S36 (TYPE : HE)	SX - FNS36	CX-NS36
NSX-S37 (TYPE : LH)		CX-NS37

If requiring information about the CD mechanism, see Service Manual of 4ZG-1,
S/M Code No. 09-974-187-50T.

TABLE OF CONTENTS

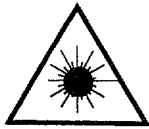
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING	3
PRECAUTION TO REPLACE OPTICAL BLOCK	3
SPECIFICATIONS<32HS, 33G>	4
SPECIFICATIONS<36HE, 37LH>	5
ELECTRICAL MAIN PARTS LIST	6
TRANSISTOR ILLUSTRATION	10
BLOCK DIAGRAM – 1 (MAIN / FRONT)	11
BLOCK DIAGRAM – 2 (TUNER : 33G)	13
BLOCK DIAGRAM – 3 (TUNER : 32HS, 37LH)	14
BLOCK DIAGRAM – 4 (TUNER : 36HE)	15
SCHEMATIC DIAGRAM – 1 (TUNER : 7ZA-2)	16
WIRING – 1 (MAIN : 33G)	17
SCHEMATIC DIAGRAM – 2 (MAIN : 33G)	19
SCHEMATIC DIAGRAM – 3 (MAIN : 32HS)	22
WIRING – 2 (MAIN : 32HS)	25
WIRING – 3 (MAIN : 37LH)	27
SCHEMATIC DIAGRAM – 4 (MAIN : 37LH)	29
SCHEMATIC DIAGRAM – 5 (MAIN : 36HE)	32
WIRING – 4 (MAIN : 36HE)	35
WIRING – 5 (FRONT : 33G)	37
SCHEMATIC DIAGRAM – 6 (FRONT : 33G)	39
WIRING – 6 (FRONT : 32HS, 37LH)	41
SCHEMATIC DIAGRAM – 7 (FRONT : 32HS)	43
WIRING – 7 (FRONT : 36HE)	45
SCHEMATIC DIAGRAM – 8 (FRONT : 36HE, 37LH)	47
WIRING – 8 (DECK : 2ZM-3 MK2)	49
WIRING – 9 (DECK : 6ZM-3)	50
WIRING – 10 (POWER)	51
FL GRID ASSIGNMENT / ANODE CONNECTION	52
IC BLOCK DIAGRAM	53
IC DESCRIPTION	55
ELECTRICAL ADJUSTMENT <TUNER / DECK>	58
PRACTICAL SERVICE FIGURE	60
MECHANICAL EXPLODED VIEW 1/1	61
MECHANICAL PARTS LIST 1/1	63
TAPE MECHANISM EXPLODED VIEW 1/1 (2ZM-3 MK2)	64
TAPE MECHANISM PARTS LIST 1/1 (2ZM-3 MK2)	66
TAPE MECHANISM EXPLODED VIEW 1/1 (6ZM-3 PR2)	67
TAPE MECHANISM PARTS LIST 1/1 (6ZM-3 PR2)	69
SPRING APPLICATION POSITION (2ZM-3 MK2)	70
SPRING APPLICATION POSITION (6ZM-3 PR2)	71
SPEAKER DISASSEMBLY INSTRUCTION (SX-NS30)	72
SPEAKER PARTS LIST (SX-NS30)	72
SPEAKER EXPLODED VIEW 1/1 (SX-FNS36)	73
SPEAKER PARTS LIST (SX-FNS36)	73
ACCESSORIES / PACKAGE LIST	74
REFERENCE NAME LIST	75

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

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

VARNING!

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

CAUTION

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

ATTENTION

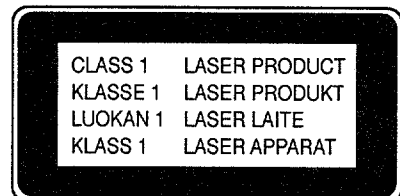
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

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

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

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

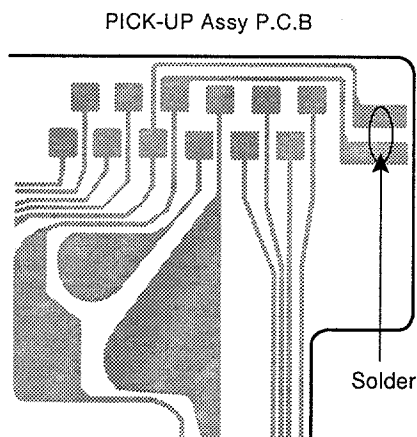


Precaution to replace Optical block

(KSS – 213B)

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

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



SPECIFICATIONS <32HS, 33G>

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	32HS : 13.2 dBf 33G : 16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 33G : 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<LW Tuner section>[33G]

Tuning range	144 kHz to 290 kHz (9 kHz step)
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output *	33G : Rated : 30 W + 30 W (6 ohms, THD 1 %, 1kHz / DIN 45500) Reference : 41 W + 41 W (6 ohms, THD 10 %, 1kHz / DIN 45324) DIN MUSIC POWER 90 W + 90 W 32HS : Rated : 40 W + 40 W (6 ohms, THD 1 %, 1kHz) Reference : 50 W + 50 W (6 ohms, THD 10 %, 1kHz)
-----------------------	--

* (without connecting to the SURROUND SPEAKERS)

Total harmonic distortion	33G : 0.05 % (15 W, 1 kHz, 6 ohms DIN AUDIO) 32HS : 0.05 % (25 W, 1 kHz, 6 ohms DIN AUDIO)
Inputs	VIDEO/AUX : 150 mV (adjustable) MIC1, MIC2 : 1mV (10 kohms)

Outputs	33G : SUPER WOOFER : 1.3 V 32HS : SUPER WOOFER : 1.7 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more
----------------	--

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz -15000 Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x1 Deck 2 : Recording/playback/erase head x 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	0.05% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-NS30>

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofers : 140 mm cone type Tweeters : 60 mm cone type Super tweeter : 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 304 x 250 mm
Weight	2.8 kg

<General>

Power requirements	32HS : 220 AC, 60 Hz 33G : 230 V AC, 50Hz
Power consumption	32HS : 225 W 33G : 110 W
Dimensions of main unit (W x H x D)	260 x 309 x 346 mm
Weight of main unit	33G : 5.9 kg 32HS : 6.7 kg

• Design and specifications are subject to change without notice.

SPECIFICATIONS <36HE, 37LH>

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 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 μ V/m
Antenna	Loop antenna

<SW Tuner section>[36HE]

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Power output *	37LH : 85 W + 85 W (6 ohms, THD 10 %, 1kHz) 36HE : Rated : 68 W + 68 W (6 ohms, THD 1 %, 1kHz) Reference : 85 W + 85 W (6 ohms, THD 10 %, 1kHz)
-----------------------	---

* (without connecting to the SURROUND SPEAKERS)

Total harmonic distortion	0.05 % (43 W, 1 kHz, 6 ohms, DIN AUDIO)
----------------------------------	--

Inputs	VIDEO/AUX : 150 mV (adjustable) MIC1, MIC2 : 1mV (10 kohms)
---------------	--

Outputs	SUPER WOOFER : 2.3 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more
----------------	--

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz –15000 Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x1 Deck 2 : Recording/playback/ erase head x 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	0.05% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-FNS36>

Cabinet type	2 way, bass reflex with surround speaker (magnetic shielded type)
---------------------	--

Speakers	Woofer : 140 mm cone type Tweeter : 60 mm cone type Surround speaker : 60 mm cone type
-----------------	---

Impedance	Front speaker : 6 ohms Surround speaker : 16 ohms
Dimensions (W x H x D)	240 x 304 x 253 mm
Weight	3.2 kg

<General>

Power requirements	120 V/ 220 – 230 V/240 V AC, switchable 50/60 Hz
Power consumption	115 W
Dimensions of main unit (W x H x D)	260 x 309 x 346 mm
Weight of main unit	6.7 kg

• Design and specifications are subject to change without notice.

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C104	87-016-658-090		CAP,E 4700-35 M SMG<LH,HE>
	87-NF4-642-010		IC,LC866548V-5E54	C105	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-070-083-010		IC,GP1U281X	C106	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-501-040		C-IC,BA7762FS	C107	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-083-010		IC,BA3835S	C108	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-450-040		C-IC,BH3864F	C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-613-040		C-IC,BU9262AFS<EXCEPT G>	C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-456-040		C-IC,BH3810FS	C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-017-888-080		C-IC,NJM4558MD	C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	86-NFZ-655-010		IC,LC72131D(Z)	C113	87-010-247-080		CAP,E 100-50 M SME<HS>
	87-A20-438-010		IC,LA1837	C113	87-A10-417-080		CAP,E 47-63 SME<LH,HE>
	87-020-454-010		IC,DN6851	C113	87-010-408-080		CAP,E 47-50 SME<G>
TRANSISTOR				C116	87-010-247-080		CAP,E 100-50 M SME<HS>
	87-026-263-080		C-TR,RN1410	C116	87-A10-417-080		CAP,E 47-63 SME<LH,HE>
	89-213-702-010		TR,2SB1370E	C116	87-010-408-080		CAP,E 47-50 SME<G>
	87-A30-076-080		C-TR,2SC3052F	C117	87-010-430-080		CAP,E 100-63
	87-026-610-080		TR,KTC3198GR	C118	87-010-263-080		CAP,E 100-10 SME
	87-A30-073-080		C-TR,RT1N 141C	C119	87-010-260-080		CAP,E 47-25 SME
	87-A30-085-070		C-TR,CSA1362GR	C120	87-010-403-080		CAP,E 3.3-50 M SME
	87-A30-083-080		TR,CSD1489B	C121	87-012-140-080		C-CAP,S 470P-50 J CH
	87-A30-075-080		C-TR,2SA1235F	C123	87-010-384-080		CAP,E 100-25M SME
	87-A30-084-080		TR,CSB1058B	C124	87-010-112-080		CAP,E 100-16 M SME
	87-A30-071-080		C-TR,RT1N 144C	C125	87-010-235-080		CAP,E 470-16 SME
	87-026-609-080		TR,KTA1266GR	C126	87-010-196-080		C-CAP,S 0.1-25 Z F<G>
	87-A30-086-070		C-TR,CSD1306E	C127	87-010-196-080		C-CAP,S 0.1-25 Z F<G>
	87-A30-106-070		C-TR,CMBT5551	C128	87-010-394-080		CAP,E 220-35 M SME<HS,G>
	87-A30-111-080		TR,C2N5401	C129	87-010-393-080		CAP,E 100-35 M SME<LH,HE>
	87-A30-109-010		TR,2SD2495	C201	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-097-010		TR,PN1016<EXCEPT G>	C202	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-108-010		TR,2SB1626<G>	C205	87-010-183-080		C-CAP,S 2700P-50 K B<LH,HE>
	87-A30-098-010		TR,FP1016<EXCEPT G>	C205	87-010-185-080		C-CAP,S 3300P-50 K B<HS>
	87-A30-089-010		FET,2SK2723	C206	87-010-183-080		C-CAP,S 3900P-50 K B<G>
	87-A30-072-080		C-TR,RT1P 144C	C206	87-010-184-080		C-CAP,S 2700P-50 K B<LH,HE>
	87-A30-087-080		C-FET,2SK2158	C206	87-010-185-080		C-CAP,S 3300P-50 K B<HS>
	87-A30-074-080		C-TR,RT1P141C	C207	87-010-404-080		CAP,E 4.7-50 M SME
	89-327-143-080		C-TR,2SC2714 (O)	C208	87-010-404-080		CAP,E 4.7-50 M SME
	87-026-463-080		TR,2SA933S	C209	87-010-404-080		CAP,E 4.7-50 M SME
	89-505-434-549		C-FET,2SK543-TB(4/5)<HE>	C210	87-010-404-080		CAP,E 4.7-50 M SME
DIODE				C211	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A40-270-080		C-DIODE,MC2838	C212	87-010-260-080		CAP,E 47-25 SME
	87-A40-116-060		DIODE,RS403L-B-D-51	C214	87-010-260-080		CAP,E 47-25 SME
	87-A40-115-060		DIODE,RS603M<LH,HE>	C215	87-012-368-080		C-CAP,S 0.1-50 Z F<LH,HE>
	87-017-437-080		DIODE,1N4148M	C215	87-010-196-080		C-CAP,S 0.1-25 Z F<G>
	87-A40-246-080		DIODE,1N4148T-72	C219	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A40-269-080		C-DIODE,MC2836	C220	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-070-274-080		DIODE,1N4003 SEM	C221	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A40-344-080		ZENER,MTZJ6.2C	C222	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A40-341-080		ZENER,MTZJ36A	C223	87-010-194-080		C-CAP,S 0.047-25 Z F<LH,HS,HE>
	87-A40-345-080		ZENER,MTZJ10C	C225	87-A10-516-080		C-CAP,S 100P-200V
	87-A40-004-089		ZENER,MTZJ16 A	C226	87-A10-516-080		C-CAP,S 100P-200 V
	87-A40-184-090		DIODE,RK34 (F)<LH,HE>	C227	87-010-197-080		C-CAP,S 0.01-25 K B<G>
	87-070-136-080		ZENER,MTZJ5.1B	C228	87-010-178-080		C-CAP,S 1000P-50 K B<G>
	87-017-481-080		ZENER,UZ-5.6BSB	C229	87-016-461-080		C-CAP,S 0.47-16 FZ
	87-A40-003-080		ZENER,MTZJ4.3A	C230	87-016-461-080		C-CAP,S 0.47-16 FZ
	87-A40-234-080		ZENER,MTZJ5.6A	C231	87-010-176-080		C-CAP,S 680P-50 J SL<G>
MAIN C.B				C232	87-010-176-080		C-CAP,S 680P-50 J SL<G>
C101	87-016-055-090		CAP,E 3300-42<G>	C233	87-010-318-080		C-CAP,S 47P-50 J CH<G>
C101	87-016-520-090		CAP,E 3300-65 M SMG<LH,HE>	C234	87-010-318-080		C-CAP,S 47P-50 J CH<G>
C101	87-010-917-090		CAP,E 3300-50 M SMG<HS>	C235	87-010-191-080		C-CAP,S 0.015-50 FZ<G>
C102	87-016-055-090		CAP,E 3300-42<G>	C236	87-010-191-080		C-CAP,S 0.015-50 FZ<G>
C102	87-016-520-090		CAP,E 3300-65 M SMG<LH,HE>	C237	87-010-197-080		C-CAP,S 0.01-25 K B<G>
C102	87-010-917-090		CAP,E 3300-50 M SMG<HS>	C238	87-010-197-080		C-CAP,S 0.01-25 K B<G>
C103	87-A10-520-090		CAP,E 3300-35 M SMG<HS,G>	C239	87-010-318-080		C-CAP,S 47P-50 J CH<G>
C103	87-016-658-090		CAP,E 4700-35 M SMG<LH,HE>	C240	87-010-318-080		C-CAP,S 47P-50 J CH<G>
				C242	87-010-406-080		CAP,E 22-50 M SME
				C243	87-010-197-080		C-CAP,S 0.01-25 K B
				C244	87-010-406-080		CAP,E 22-50 M SME
				C301	87-010-318-080		C-CAP,S 47P-50 J CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C302	87-010-318-080		C-CAP,S 47P-50 J CH	C628	87-010-316-080		C-CAP,S 33P-50 J CH<G>
C303	87-012-145-080		C-CAP,S 270P-50CH<HS>	C629	87-012-368-010		C-CAP,0.1-50 FZ
C303	87-012-157-080		C-CAP,S 330P-50 J CH<LH,G,HE>	C630	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<G>
C304	87-012-145-080		C-CAP,S 270P-50CH<HS>	C631	87-015-785-080		C-CAP,0.1-25 Z F<G>
C304	87-012-157-080		C-CAP,S 330P-50 J CH<LH,G,HE>	C632	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<G>
C305	87-012-145-080		C-CAP,S 270P-50 J CH	C633	87-010-197-080		C-CAP,S 0.01-25 K B<G>
C306	87-012-145-080		C-CAP,S 270P-50 J CH	C636	87-010-322-080		C-CAP,S 100P-50 J CH<G>
C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C637	87-010-322-080		C-CAP,S 100P-50 J CH<G>
C309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C646	87-010-322-080		C-CAP,S 100P-50 J CH
C310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C647	87-010-322-080		C-CAP,S 100P-50 J CH
C311	87-010-198-080		C-CAP,S 0.022-25 K B	C701	87-010-381-080		CAP,E 330-16 SME
C312	87-010-198-080		C-CAP,S 0.022-25 K B	C702	87-010-404-080		CAP,E 4.7-50 M SME
C313	87-010-178-080		C-CAP,S 1000P-50 K B<LH,G,HE>	C703	87-010-197-080		C-CAP,S 0.01-25 K B
C313	87-010-182-080		C-CAP,S 2200P-50KB<HS>	C704	87-010-197-080		C-CAP,S 0.01-25 K B
C314	87-010-178-080		C-CAP,S 1000P-50 K B<LH,G,HE>	C711	87-010-263-080		CAP,E 100-10 SME
C314	87-010-182-080		C-CAP,S 2200P-50KB<HS>	C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C315	87-010-178-080		C-CAP,S 1000P-50 K B<LH,G,HE>	C713	87-010-197-080		C-CAP,S 0.01-25 K B
C315	87-010-182-080		C-CAP,S 2200P-50KB<HS>	C714	87-010-197-080		C-CAP,S 0.01-25 K B
C316	87-010-178-080		C-CAP,S 1000P-50 K B<LH,G,HE>	C715	87-010-322-080		C-CAP,S 100P-50 CH<G>
C316	87-010-182-080		C-CAP,S 2200P-50KB<HS>	C721	87-010-312-080		C-CAP,S 15P-50 J CH
C321	87-016-492-080		C-CAP,S 0.33-16 Z F	C722	87-010-312-080		C-CAP,S 15P-50 J CH
C322	87-016-492-080		C-CAP,S 0.33-16 Z F	C723	87-010-178-080		C-CAP,S 1000P-50 K B
C324	87-010-260-080		CAP,E 47-25 SME	C725	87-010-178-080		C-CAP,S 1000P-50 K B
C325	87-010-370-080		CAP,E 330-6.3 M SME	C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C327	87-010-404-080		CAP,E 4.7-50 M SME	C728	87-010-248-080		CAP,E 220-10 SME
C328	87-010-404-080		CAP,E 4.7-50 M SME	C750	87-018-109-080		CAP,TC 22P-50J SL<G>
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C751	87-018-109-080		CAP,TC 22P-50J SL<G>
C335	87-010-401-080		CAP,E 1-50 M SME	C755	87-010-197-080		C-CAP,S 0.01-25 K B
C336	87-010-401-080		CAP,E 1-50 M SME	C756	87-010-197-080		C-CAP,S 0.01-25 K B
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C757	87-010-318-080		C-CAP,S 47P-50 J CH
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C758	87-010-149-080		C-CAP,S 5P-50 CH
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-140-080		C-CAP,S 470P-50 J CH	C762	87-010-197-080		C-CAP,S 0.01-25 K B
C352	87-012-140-080		C-CAP,S 470P-50 J CH	C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C354	87-010-175-080		C-CAP,S 560P-50 J SL	C765	87-010-197-080		C-CAP,S 0.01-25 K B
C355	87-010-178-080		C-CAP,S 1000P-50 K B	C766	87-010-197-080		C-CAP,S 0.01-25 K B
C356	87-010-260-080		CAP,E 47-25 SME	C767	87-010-405-080		CAP,E 10-50 M SME
C357	87-010-197-080		C-CAP,S 0.01-25 K B	C768	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B	C769	87-010-408-080		CAP,E 47-50 SME
C359	87-010-183-080		C-CAP,S 2700P-50 K B	C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C360	87-010-183-080		C-CAP,S 2700P-50 K B	C771	87-010-407-080		CAP,E 33-50 SME
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C373	87-010-993-080		C-CAP,S 0.056-25 K B	C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C374	87-010-993-080		C-CAP,S 0.056-25 K B	C774	87-010-263-080		CAP,E 100-10 SME
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C775	87-010-404-080		CAP,E 4.7-50 M SME
C379	87-010-382-080		CAP,E 22-25 M SME	C776	87-010-197-080		C-CAP,S 0.01-25 K B<LH,HS,G>
C380	87-010-382-080		CAP,E 22-25 M SME	C777	87-010-400-080		CAP,E 0.47-50 M SME
C381	87-010-197-080		C-CAP,S 0.01-25 K B<LH,G,HE>	C778	87-010-401-080		CAP,E 1-50 M SME
C382	87-010-312-080		C-CAP,S 15P-50 J CH<LH,G,HE>	C779	87-010-401-080		CAP,E 1-50 M SME
C383	87-010-197-080		C-CAP,S 0.01-25 K B<G>	C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C384	87-010-402-080		CAP,E 2.2-50 M SME<LH,G,HE>	C781	87-010-405-080		CAP,E 10-50 M SME
C386	87-010-196-080		C-CAP,S 0.1-25 Z F<LH,G,HE>	C782	87-010-405-080		CAP,E 10-50 M SME
C387	87-012-145-080		C-CAP,S 270P-50 J CH<LH,G>,HE	C783	87-015-819-080		C-CAP,0.01-50 K B
C388	87-010-154-080		C-CAP,S 10P-50 D CH<EXCEPT HE>	C784	87-010-197-080		C-CAP,S 0.01-25 K B
C420	87-010-197-080		C-CAP,S 0.01-25 K B<G>	C785	87-010-400-080		CAP,E 0.47-50 M SME
C421	87-010-402-080		CAP,E 2.2-50 SME	C786	87-010-400-080		CAP,E 0.47-50 M SME
C422	87-010-402-080		CAP,E 2.2-50 SME	C787	87-010-184-080		C-CAP,S 3300P-50 K B
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C788	87-010-184-080		C-CAP,S 3300P-50 K B
C605	87-010-180-080		C-CAP,S 1500P-50 K B	C789	87-010-179-080		C-CAP,S 1200P-50 K B
C606	87-010-180-080		C-CAP,S 1500P-50 K B	C790	87-010-179-080		C-CAP,S 1200P-50 K B
C609	87-010-322-080		C-CAP,S 100P-50 J CH<G>	C791	87-010-405-080		CAP,E 10-50 M SME
C610	87-010-322-080		C-CAP,S 100P-50 J CH<G>	C793	87-010-178-080		C-CAP,S 1000P-50KB
C611	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C794	87-010-406-080		CAP,E 22-50 M SME
C615	87-010-183-080		C-CAP,S 2700P-50 K B	C795	87-010-596-080		C-CAP,S 0.047-25 R K
C619	87-010-263-080		CAP,E 100-10 SME	C796	87-010-403-080		CAP,E 3.3-50 M SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C797	87-010-180-080		C-CAP,S 1500P-50 K B<HS,G,HE>
C621	87-010-263-080		CAP,E 100-10 SME	C797	87-010-182-080		C-CAP,S 2200P-50 K B<LH>
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C798	87-010-180-080		C-CAP,S 1500P-50 K B<HS,G,HE>
C623	87-010-194-080		C-CAP,S 0.047-25 Z F	C798	87-010-182-080		C-CAP,S 2200P-50 K B<LH>
C627	87-010-316-080		C-CAP,S 33P-50 J CH<G>	C799	87-010-194-080		C-CAP,S 0.047-25 Z F

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
C501	87-010-319-080		C-CAP,S 56P-50 J CH<EXCEPT G>	△FC1	87-A90-505-010		FUSE CLAMP,TP00351
C502	87-010-319-080		C-CAP,S 56P-50 J CH<EXCEPT G>	△FC2	87-A90-505-010		FUSE CLAMP,TP00351
C503	87-012-393-080		C-CAP,S 0.22-16 CB<EXCEPT G>	△PT101	87-NF7-610-010		PT,7NF-7 EZ
C504	87-010-197-080		C-CAP,S 0.01-25 K B<EXCEPT G>	△T1	87-A60-317-010		TERMINAL, 1P MSC
C505	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT G>	△T2	87-A60-317-010		TERMINAL, 1P MSC
C506	87-010-213-080		C-CAP,S 0.015-25K B<EXCEPT G>				
C507	87-010-213-080		C-CAP,S 0.015-25K B<EXCEPT G>	AC2 C.B			
C508	87-010-197-080		C-CAP,S 0.01-25 K B<EXCEPT G>				
C509	87-010-181-080		C-CAP,S 1800P-50 K B<EXCEPT G>	△PR1	87-A90-195-080		PROTECTOR,7A 491SERIES 125V<LH,HE>
C510	87-010-196-080		C-CAP,S 0.1-25 Z F<EXCEPT G>	△PR1	87-A00-261-080		RES,M/F 0.56-1W J<HS,G>
				△PR2	87-A90-195-080		PROTECTOR,7A 491SERIES 125V<LH,HE>
C512	87-010-374-040		CAP,E 47-10 SME<EXCEPT G>	△PR2	87-A00-261-080		RES,M/F 0.56-1W J<HS,G>
C513	87-010-494-040		CAP,E 1-50 5L SRE<EXCEPT G>	△PR5	87-A90-195-080		PROTECTOR,7A 491SERIES 125V<HS,G>
C514	87-010-494-040		CAP,E 1-50 5L SRE<EXCEPT G>				
C515	87-010-183-080		C-CAP,S 2700P-50 K B<EXCEPT G>	△PR5	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HE>
C516	87-010-183-080		C-CAP,S 2700P-50 K B<EXCEPT G>	△PR6	87-A90-195-080		PROTECTOR,7A 491SERIES 125V<HS,G>
				△PR6	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HE>
C518	87-010-196-080		C-CAP,S 0.1-25 Z F<EXCEPT G>				
C519	87-015-677-040		CAP,E 100-6.3 M 7L SRA<EXCEPT G>	PT C.B<HE,HS,LH>			
C521	87-018-209-080		CAP,TC-U 0.1-50 FZ<EXCEPT G>				
C523	87-012-141-080		C-CAP,S 0.22-16 FZ<EXCEPT G>	△F101	87-035-368-010		FUSE,4A 250V T<HE,LH>
C601	87-010-560-040		CAP,E 10-50 M 5L MA	△F101	87-035-365-010		FUSE,2A 250V T<HS>
				△FC1	87-033-147-010		FUSE CLAMP,MT-20
C602	87-010-186-080		C-CAP,S 4700P-50 K B	△FC2	87-033-147-010		FUSE CLAMP,MT-20
C603	87-010-498-040		CAP,E 10-16 M 5L SRE	△PT101	87-NF7-605-01G		PT,7NF-7 LH<LH>
C604	87-010-499-040		CAP,E 22-6.3 M 5L SRE				
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	△PT101	87-NF7-606-01G		PT,7NF-7 HR<HE>
C606	87-010-322-080		C-CAP,S 100P-50 J CH<G>	△PT101	87-NF7-613-01G		PT,7NF-7 HR(L)<HS>
				△SW1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH,HE>
C607	87-010-321-080		C-CAP,S 82P-50 J CH	△T1	87-A60-317-010		TERMINAL, 1P MSC
C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	△T2	87-A60-317-010		TERMINAL, 1P MSC
C609	87-010-491-040		CAP,E 0.22-50 5L SRE				
C610	87-010-322-080		C-CAP,S 100P-50 J CH<G>				
C611	87-010-177-080		C-CAP,S 820P-50 J SL	DECK C.B<HE>			
				CON502	87-099-756-019		CONN, 15P 9604 S F
C612	87-010-176-080		C-CAP,S 680P-50 J SL<G>	SFR1	87-024-581-019		SFR,3.3K DIA 6H
C614	87-010-248-040		CAP,E 220-10 M SME	SOL1	82-ZM1-618-010		SOL ASSY, 27
FB601	87-008-372-080		FLTR,EMIBL01 RN1	SOL2	82-ZM1-618-010		SOL ASSY, 27
FL101	87-NF7-603-010		FL,BJ532GK	SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
J601	82-NF7-630-010		JACK,3.5MO				
J602	82-NF7-630-010		JACK,3.5MO<HE>	SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
L501	87-005-448-080		COIL,220UH K FLR50<EXCEPT G>	SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
S301	87-A90-164-080		SW,TACT SKQAB(N)	SW4	87-036-110-010		SW,MICRO SPPB62
S302	87-A90-164-080		SW,TACT SKQAB(N)	SW5	87-036-110-010		SW,MICRO SPPB62
S304	87-A90-164-080		SW,TACT SKQAB(N)	SW6	87-036-110-010		SW,MICRO SPPB62
S305	87-A90-164-080		SW,TACT SKQAB(N)				
S306	87-A90-164-080		SW,TACT SKQAB(N)	SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
S307	87-A90-164-080		SW,TACT SKQAB(N)	SW9	87-036-110-010		SW,MICRO SPPB62
S309	87-A90-164-080		SW,TACT SKQAB(N)	W001	82-ZM3-601-019		RBN,CORD,4P-75
S310	87-A90-164-080		SW,TACT SKQAB(N)				
S311	87-A90-164-080		SW,TACT SKQAB(N)	DECK C.B<EXCEPT HE>			
S312	87-A90-164-080		SW,TACT SKQAB(N)	CON301	86-ZM3-604-019		CON ASSY,3P-PB
S313	87-A90-164-080		SW,TACT SKQAB(N)	CON351	86-ZM3-605-019		CON ASSY,8P-RPB
S314	87-A90-164-080		SW,TACT SKQAB(N)	CON502	87-099-753-019		CONN,11P H 9604
S315	87-A90-164-080		SW,TACT SKQAB(N)	SFR1	87-024-581-089		SFR,3.3K DIA 6H
S316	87-A90-164-080		SW,TACT SKQAB(N)	SOL1	82-ZM1-618-010		SOL ASSY, 27
S317	87-A90-164-080		SW,TACT SKQAB(N)				
S318	87-A90-164-080		SW,TACT SKQAB(N)	SOL2	82-ZM1-618-010		SOL ASSY, 27
S319	87-A90-164-080		SW,TACT SKQAB(N)	SW1	87-A90-248-010		SW, MICRO ESE11SH2CXQ
S320	87-A90-164-080		SW,TACT SKQAB(N)	SW2	87-A90-248-010		SW, MICRO ESE11SH2CXQ
S326	87-A90-164-080		SW,TACT SKQAB(N)<EXCEPT G>	SW3	87-A90-248-010		SW, MICRO ESE11SH2CXQ
S327	87-A90-164-080		SW,TACT SKQAB(N)<EXCEPT G>	SW4	87-A90-248-010		SW, MICRO ESE11SH2CXQ
S328	87-A90-164-080		SW,TACT SKQAB(N)				
S329	87-A90-164-080		SW,TACT SKQAB(N)	SW5	87-A90-248-010		SW, MICRO ESE11SH2CXQ
S330	87-A90-164-080		SW,TACT SKQAB(N)<G>	W1	82-ZM3-601-019		RBN-CORD,4P-75
S331	87-A90-164-080		SW,TACT SKQAB(N)	HEAD-1 C.B<HE>			
S332	87-A90-164-080		SW,TACT SKQAB(N)				
S337	87-A90-164-080		SW,TACT SKQAB(N)	85-ZM3-602-010			PWB,FLEX A
SW101	87-A90-535-010		SW,RTRY ECL6B24304-WO	HEAD-2 C.B<HE>			
VR601	86-NFA-607-010		VR,RTRY 10K15AX1<G>				
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF	85-ZM3-602-010			PWB,FLEX A
AC1 C.B<G>							
△F101	87-035-364-010		FUSE,1.6A 250V T				

TRANSISTOR ILLUSTRATION



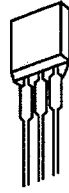
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KTC3198GR



E C B

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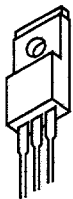
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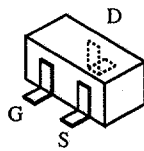
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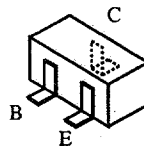


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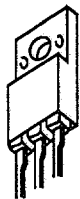
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E B C

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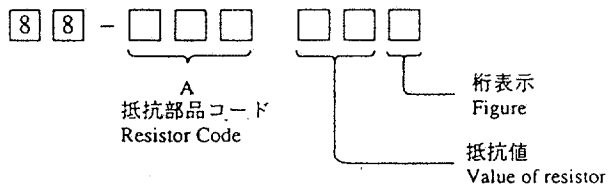


B C E

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○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

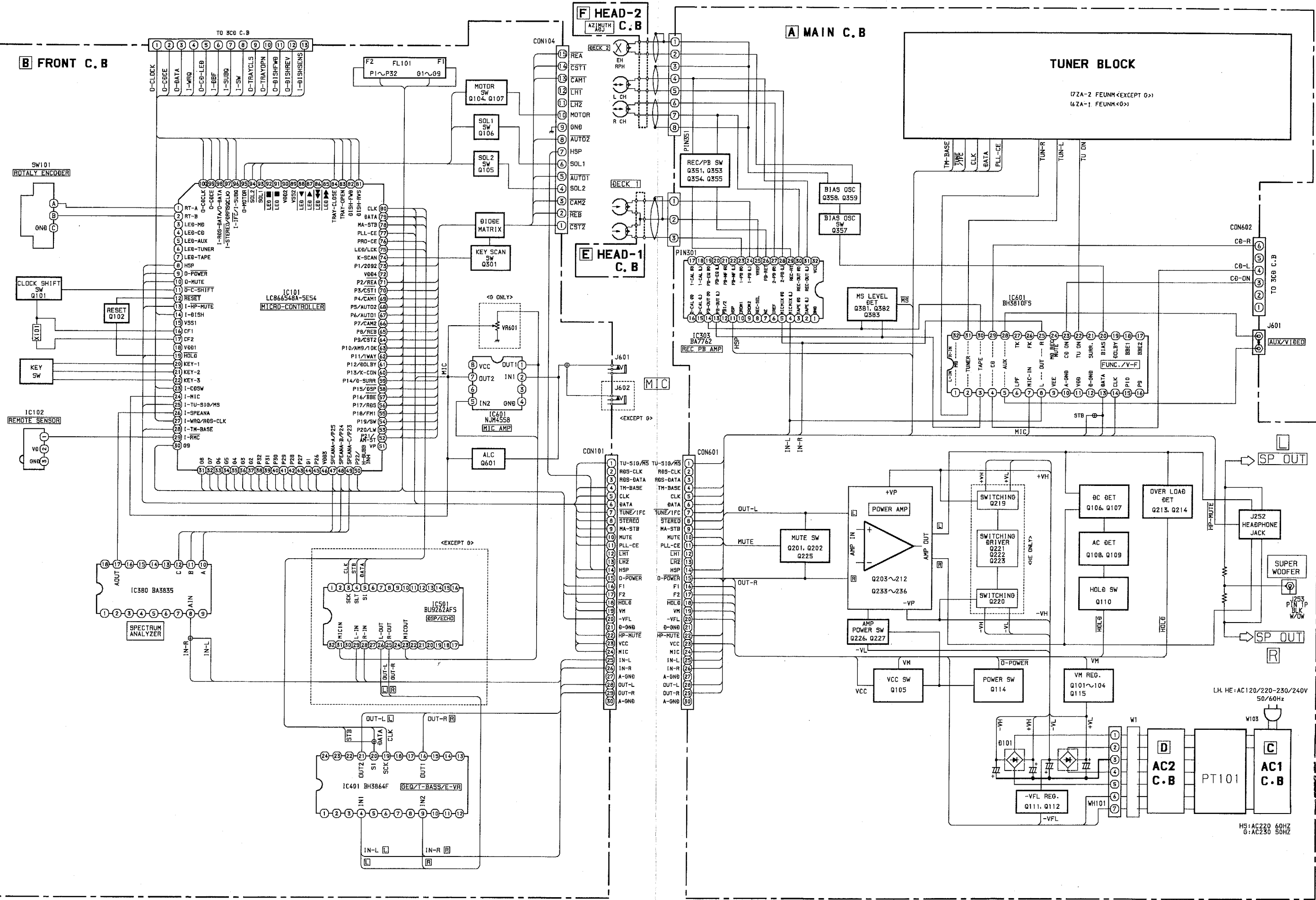
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

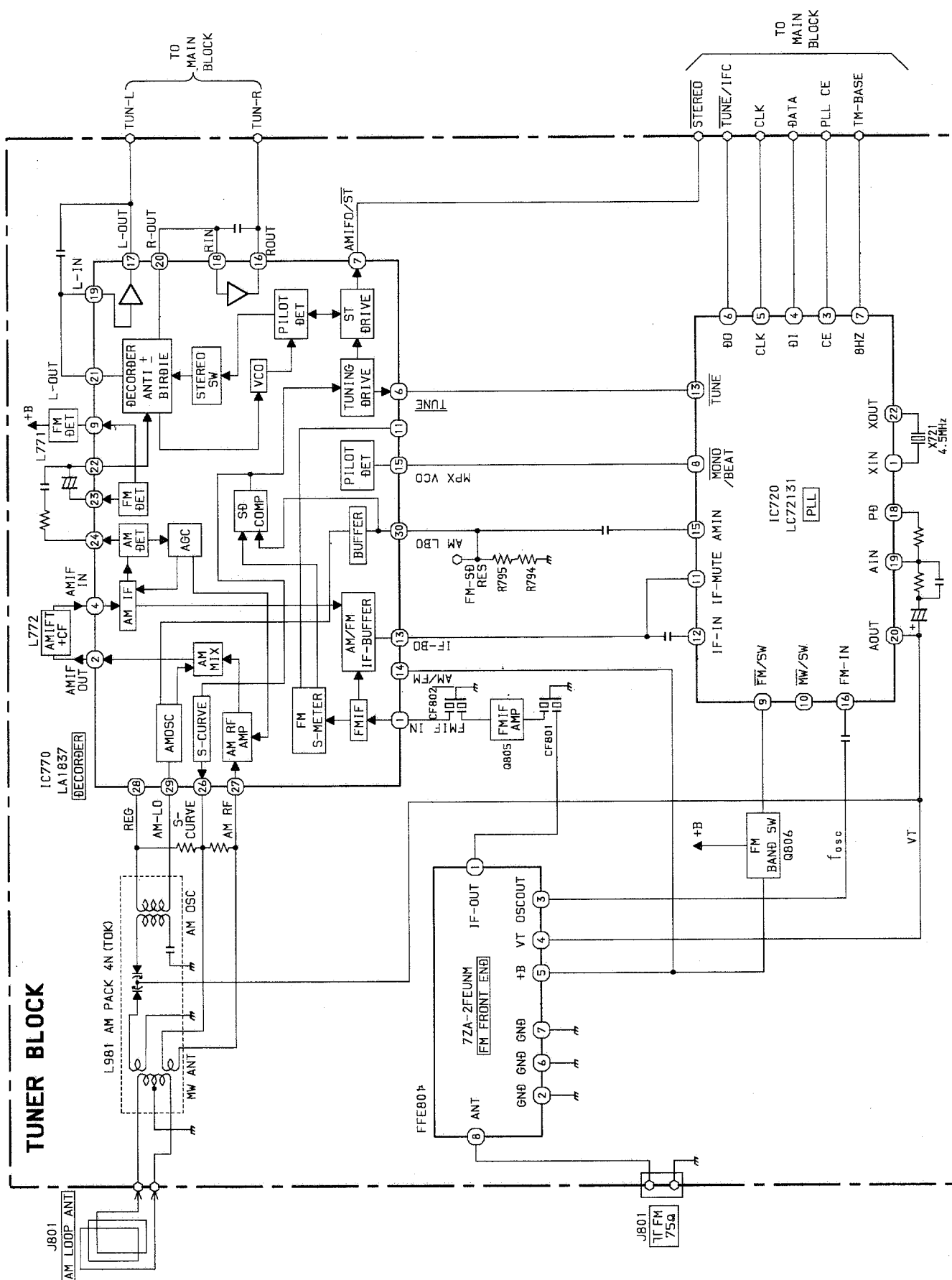
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード：A Resistor Code: A
				外形／Form	L	W	t	
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

BLOCK DIAGRAM – 1 (MAIN / FRONT)

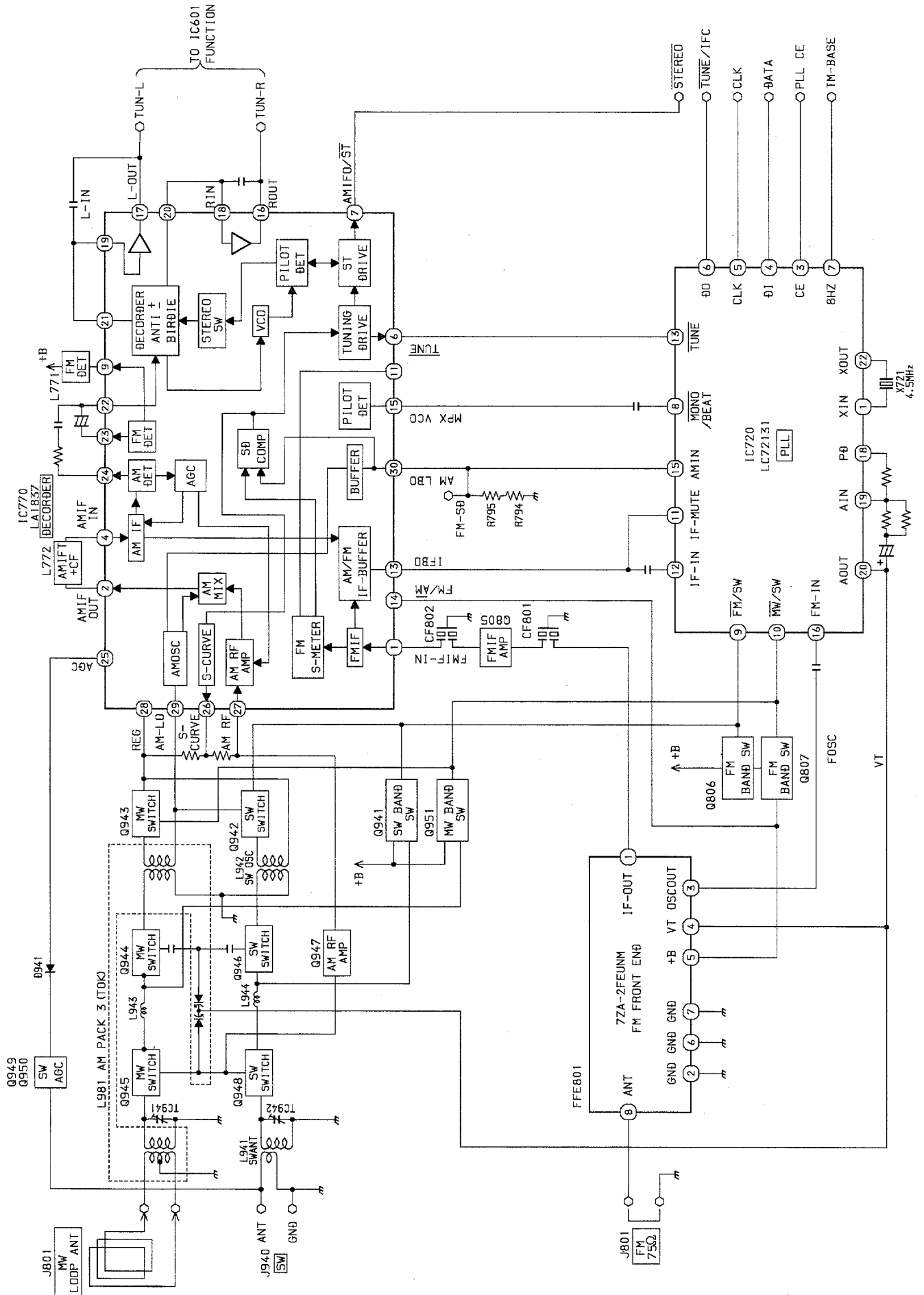


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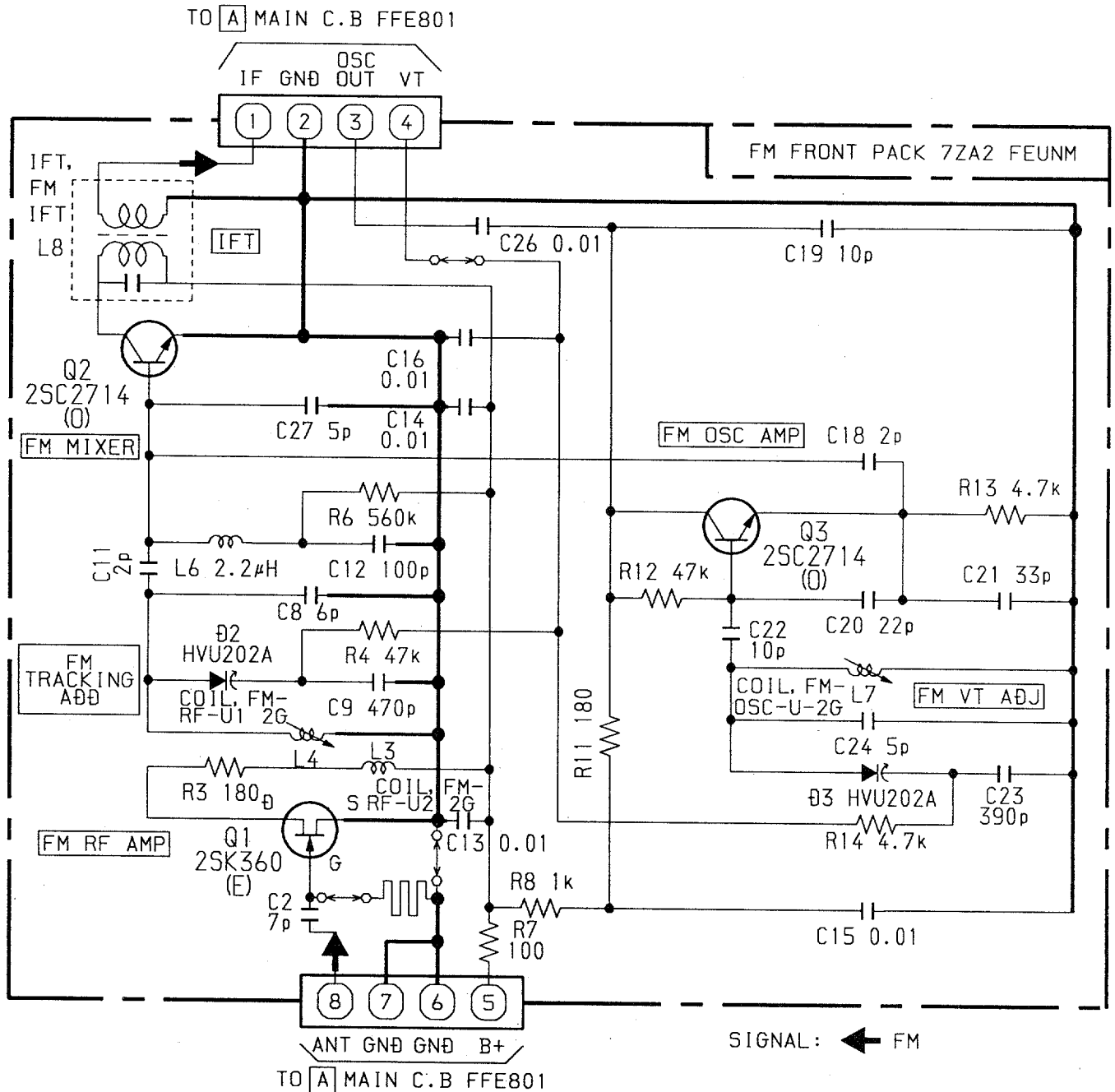
BLOCK DIAGRAM – 3 (TUNER : 37LH, 32HS)



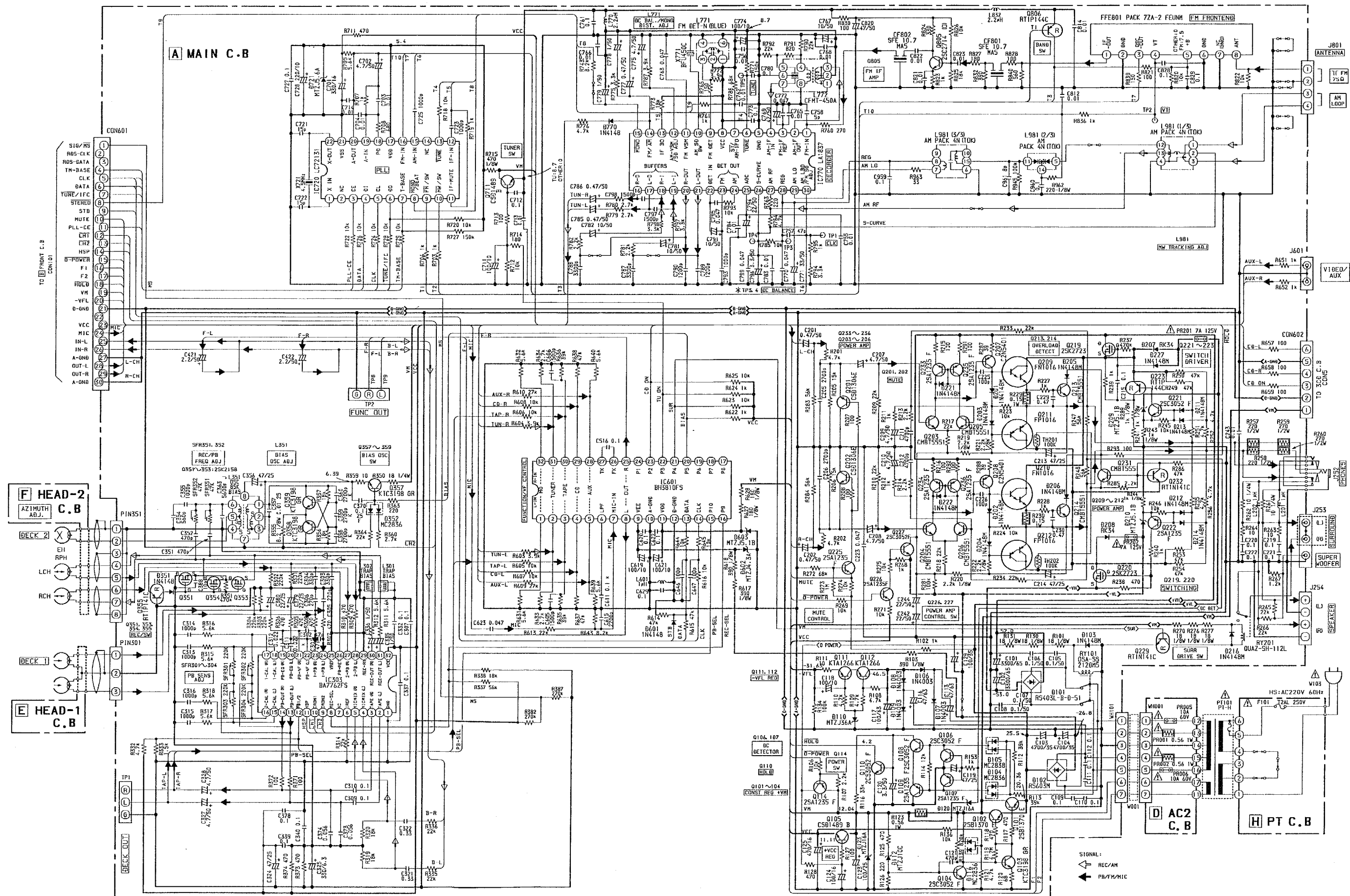
BLOCK DIAGRAM - 4 (TUNER : 36HE)



SCHEMATIC DIAGRAM - 1 (TUNER : 7ZA - 2)

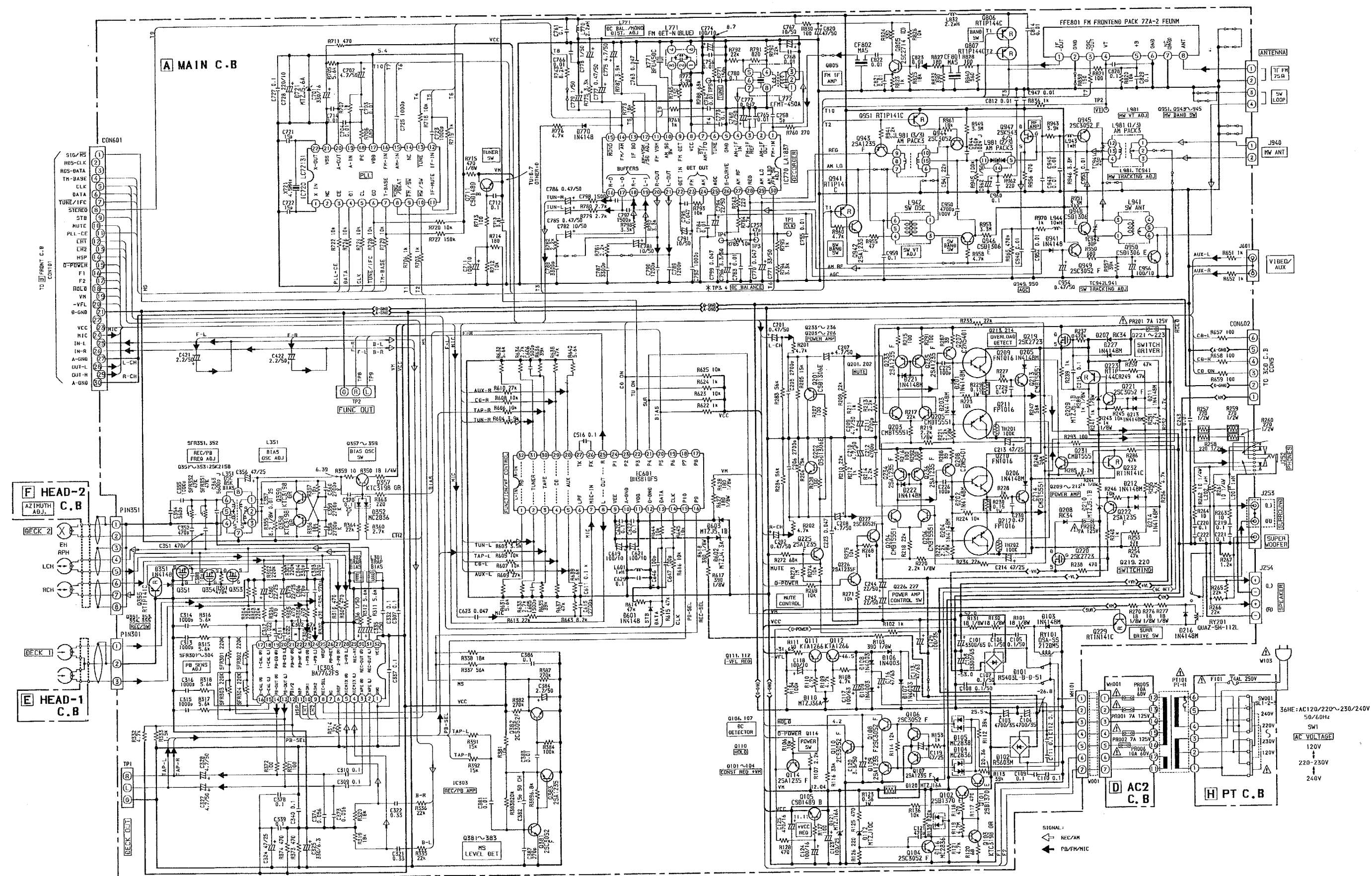


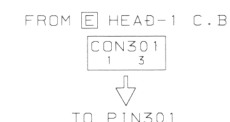


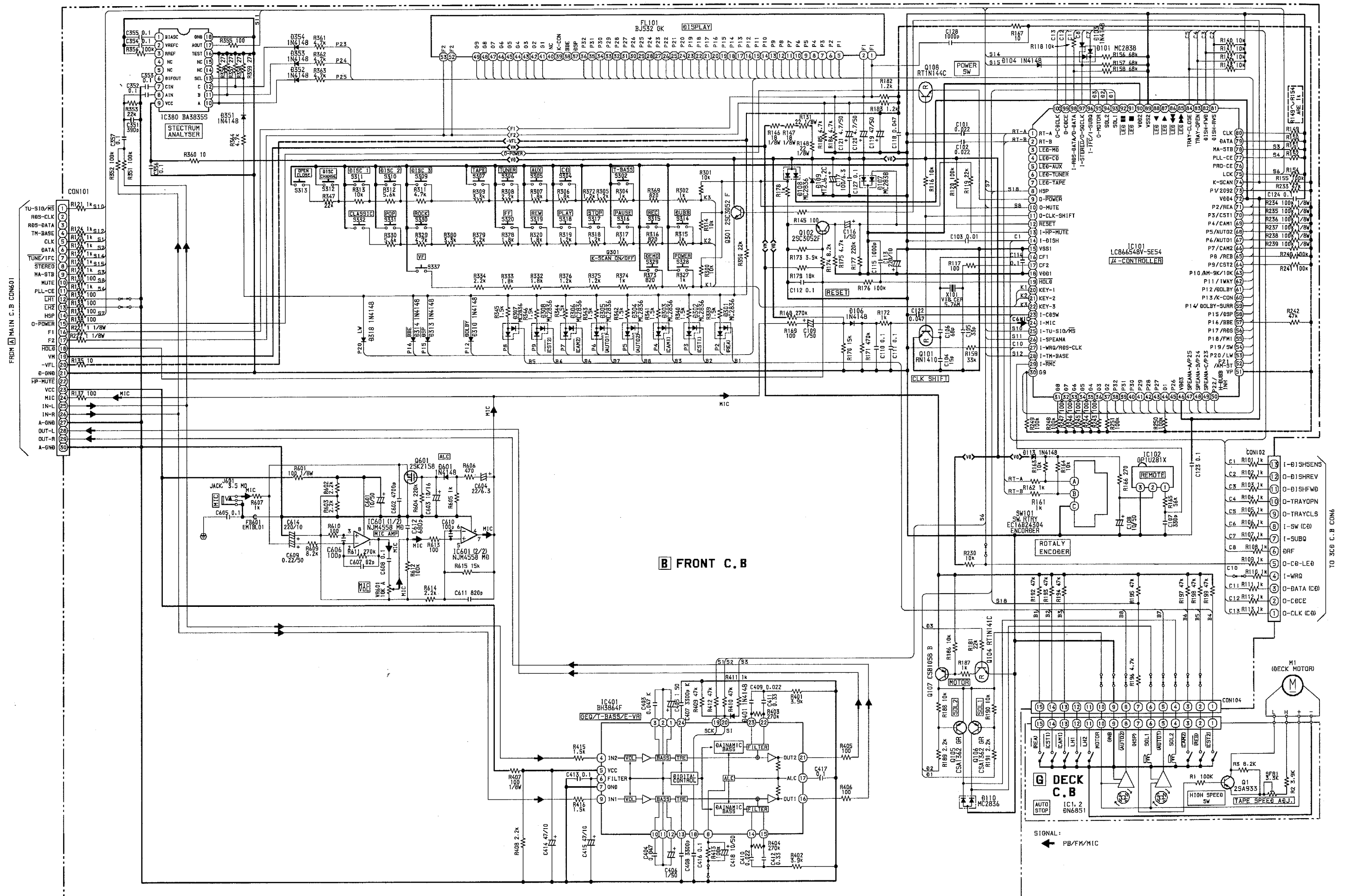


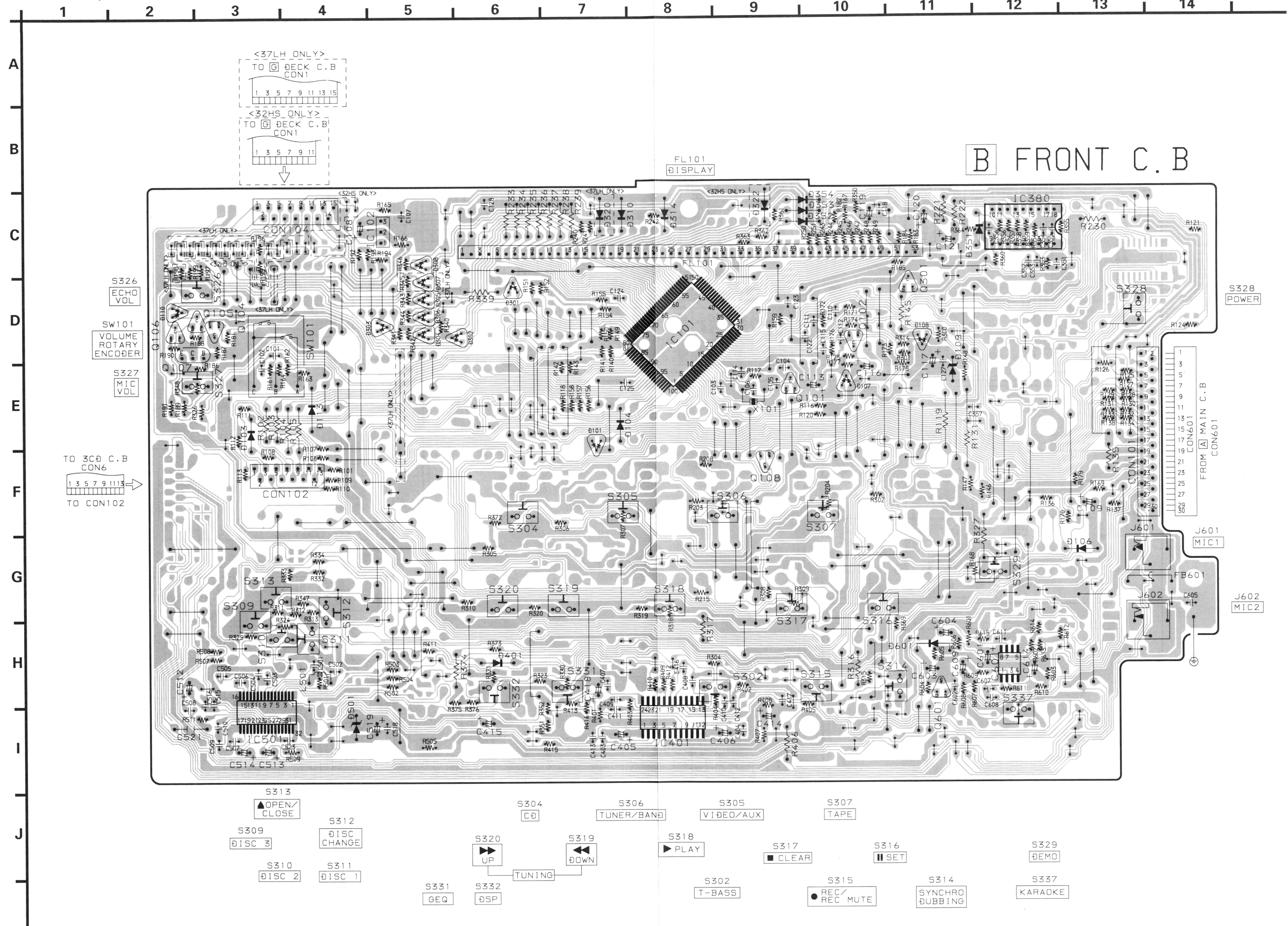
- 25 -

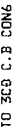


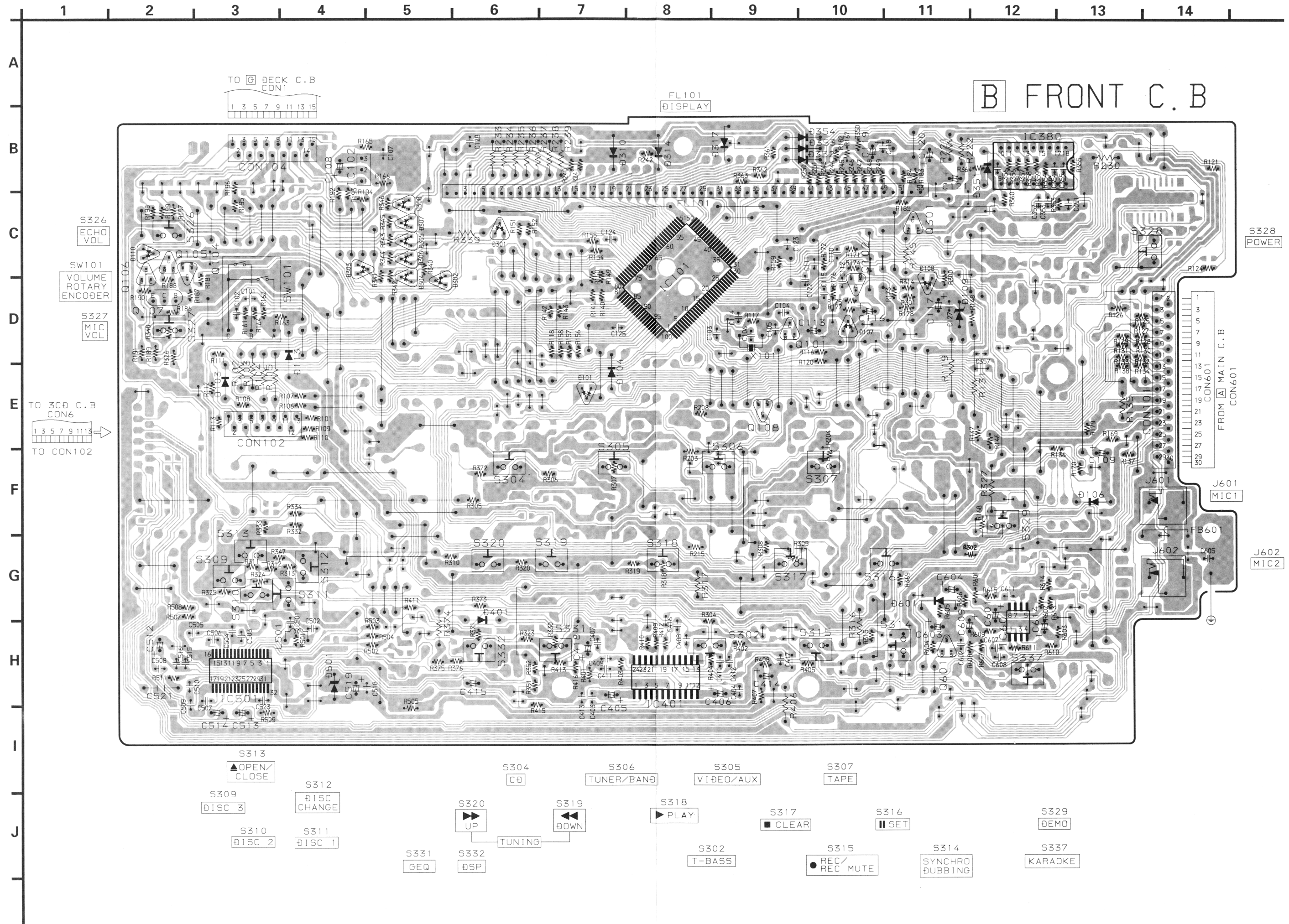




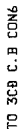


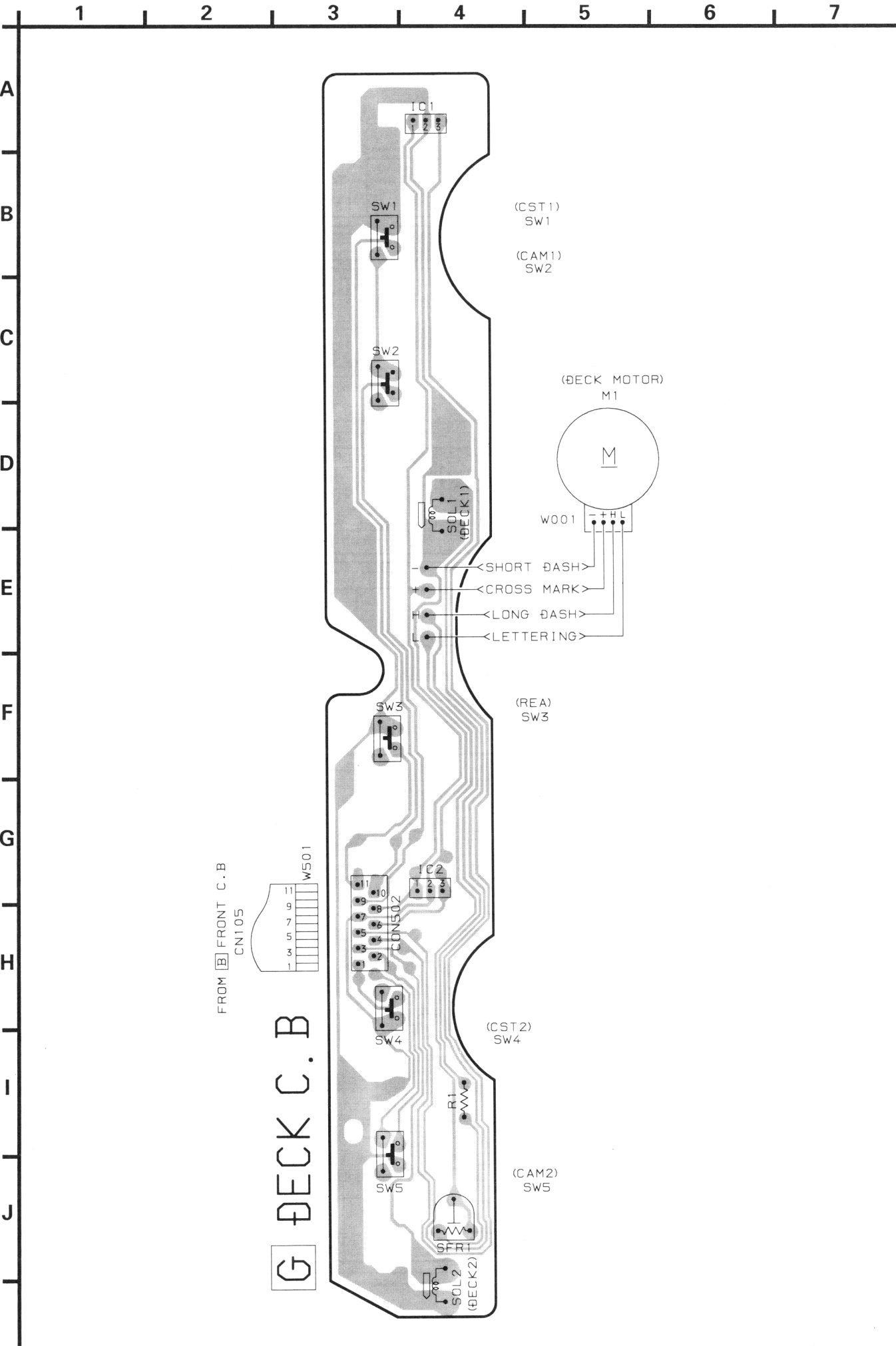


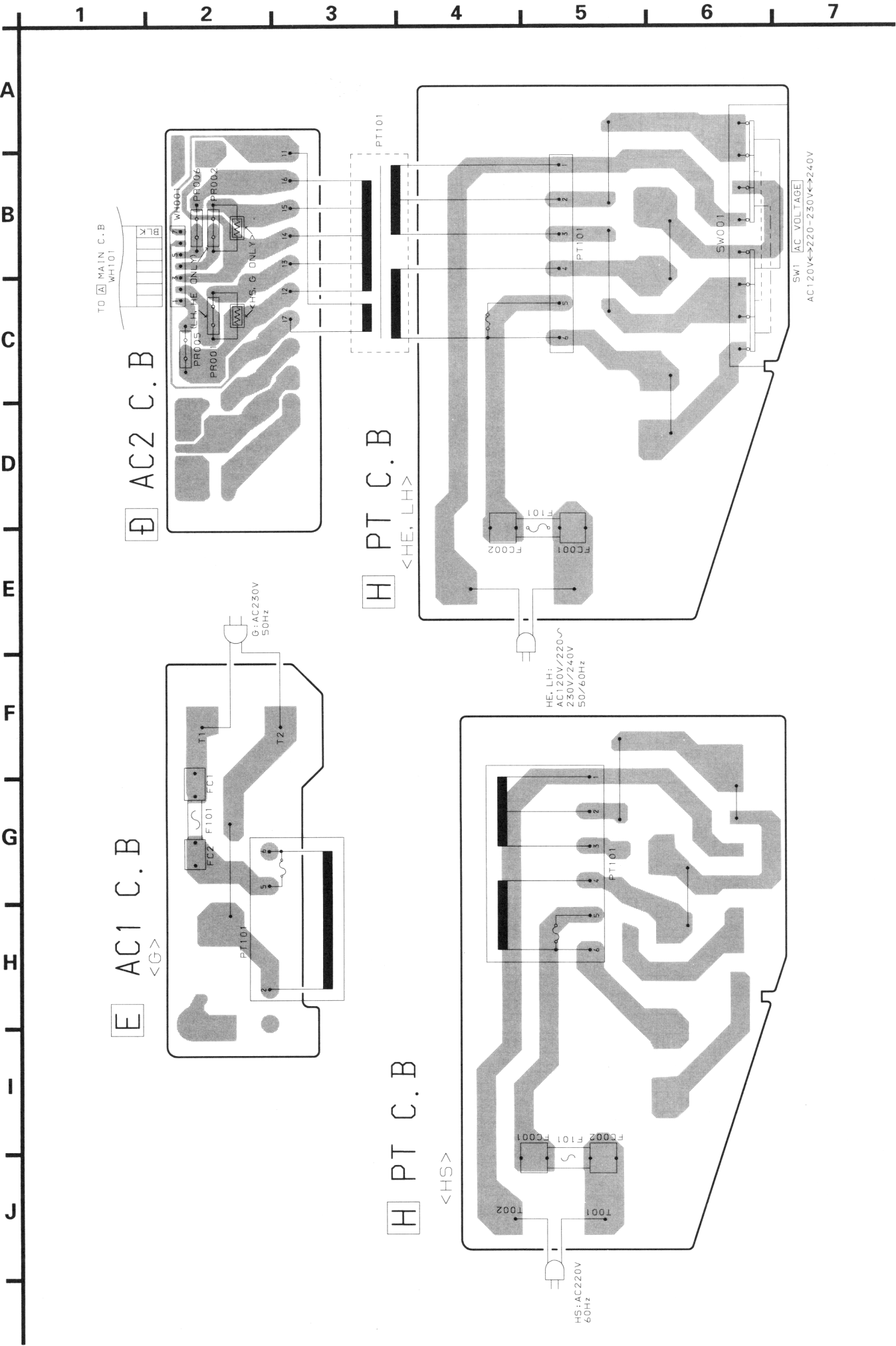




FROM [A] MAIN C.B CON601







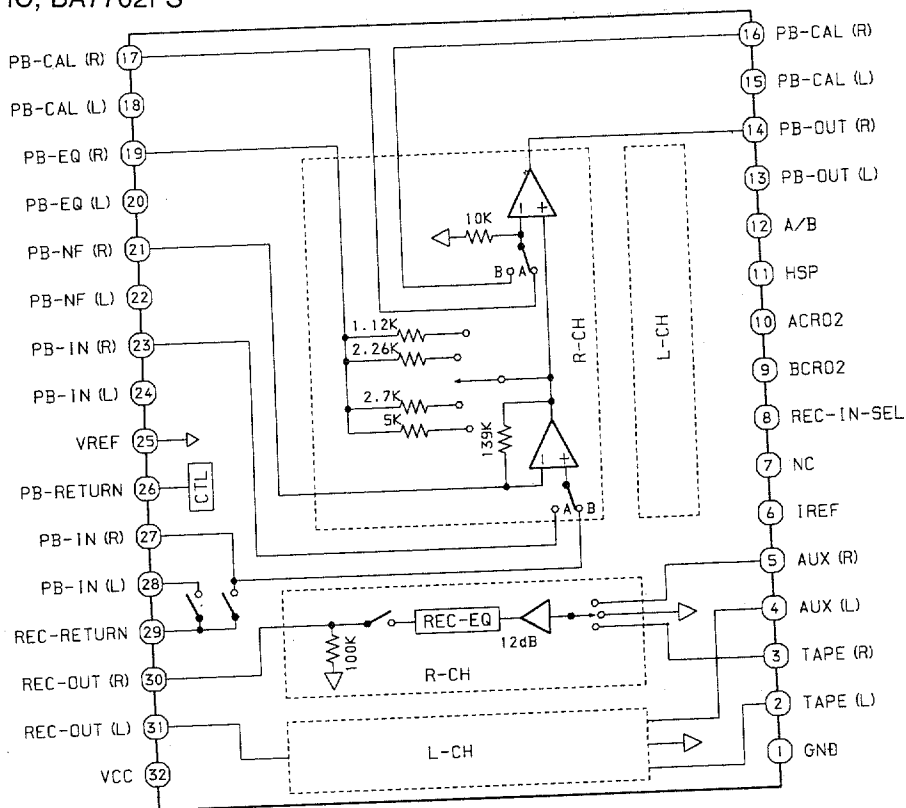
GRID ASSIGNMENT



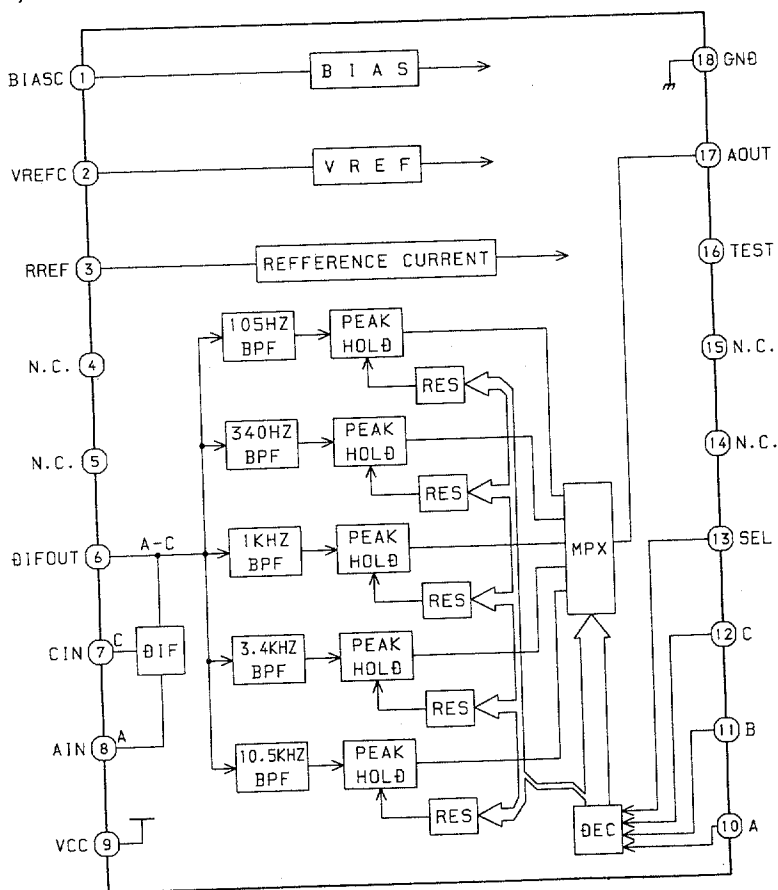
	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	58	B32		-	co (GN)	-	RANDOM
P2	52	B24		1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	O	1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1q	1q	1q	4
P9	2e	B30	MHz	1n	1n	1n	5
P10	2a, 2c, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	DO NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	53	B13	-	1a	1a	1a	11
P16	55	B5	B5	-	co (UP)	-	12
P17	57	B28	-	-	0p	-	13
P18	54	B20	-	2d	2d	2d	14
P19	56	B12	-	2n	2n	2n	15
P20	(HALL)	B4	B4	2p	2p	2p	16
P21	(LIVE)	B27	AG	2r	2r	2r	17
P22	(DISCO)	B19	((1001))	2e	2e	2e	18
P23	(CLASSIC)	B11	EON	2c	2c	2c	19
P24	(POP)	B3	B3	2q	2q	2q	20
P25	(ROCK)	B26	RT	2m	2n	2n	AUTO
P26	B36	B18	MONO	2f	2f	2f	VF
P27	B37	B10	TRAF	2b	2b	2b	
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25	)	2j	2j	2j	
P30	B34	B17		2h	2h	2h	((#))
P31	B35	B9	(	2e	2a	2a	((b))
P32	59 T-BASS	B1	B1	-	-	-	S1
P33	S10	-	-	-	-	-	-
P34	BBE	-	-	-	-	-	-
P35	-	-	-	-	-	-	b #

IC BLOCK DIAGRAM

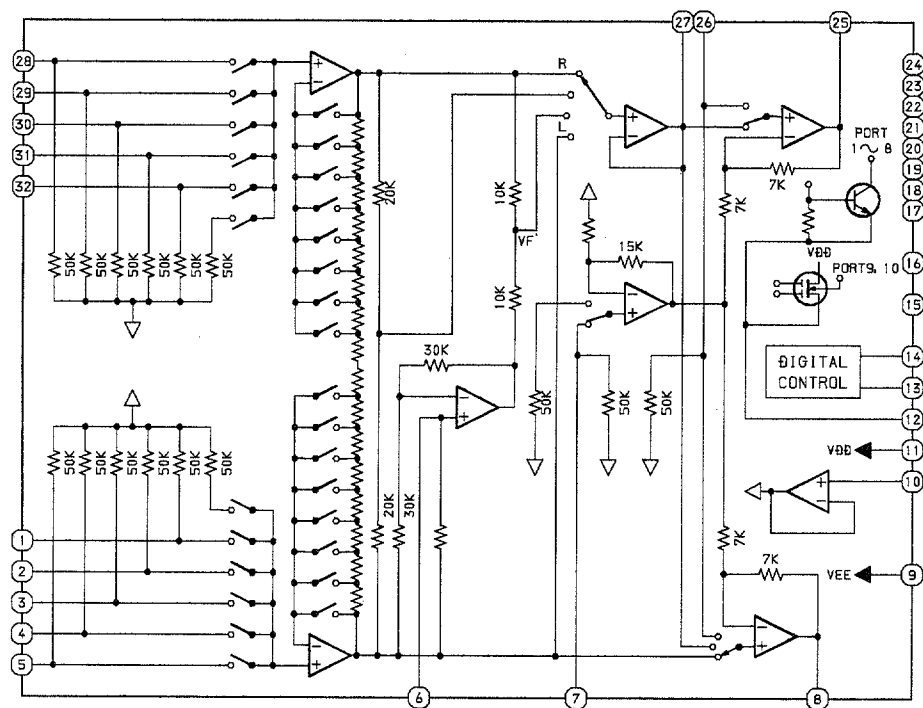
IC, BA7762FS



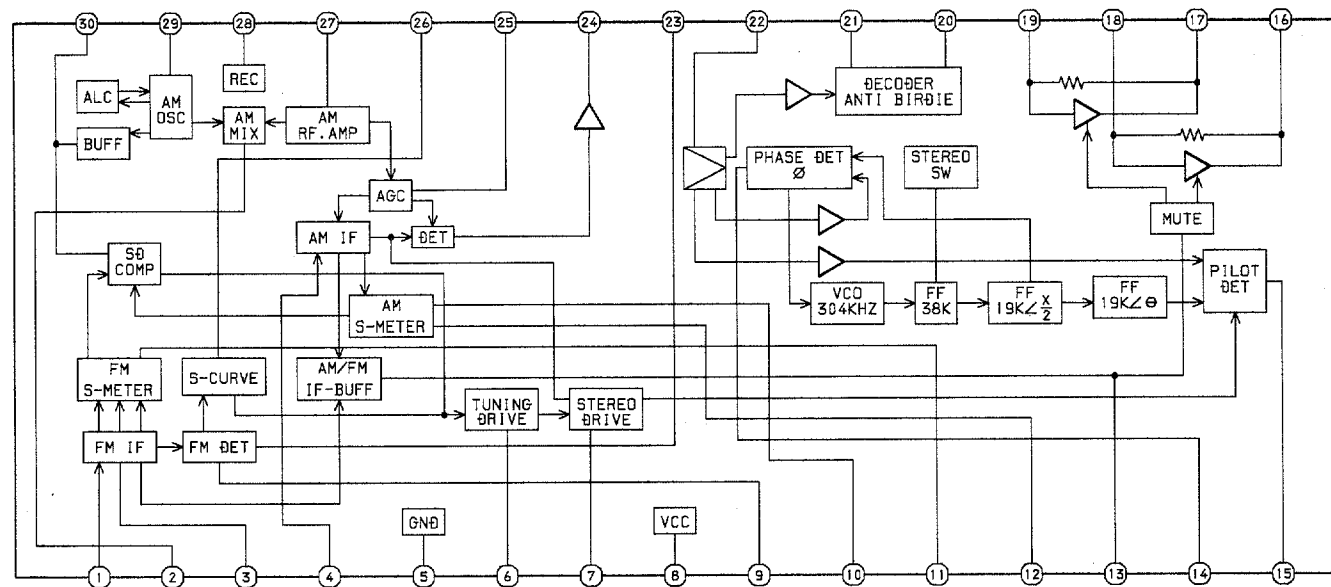
IC, BA3835S



IC, BH3810FS



IC, LA1837



IC DESCRIPTION

IC, LC866548V-5E54

Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	$\overline{\text{LED-MD}}$	O	"MD" LED $\overline{\text{ON/OFF}}$ output.
4	$\overline{\text{LED-CD}}$	O	"CD " LED $\overline{\text{ON/OFF}}$ output.
5	$\overline{\text{LED-AUX}}$	O	"AUX" LED $\overline{\text{ON/OFF}}$ output.
6	$\overline{\text{LED-TUNER}}$	O	"TUNER" LED $\overline{\text{ON/OFF}}$ output.
7	$\overline{\text{LED-TAPE}}$	O	"TAPE" LED $\overline{\text{ON/OFF}}$ output.
8	HSP	O	Tape deck motor high speed $\overline{\text{ON/OFF}}$ output.
9	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON/OFF}}$ output.
10	O-MUTE	O	System mute $\overline{\text{ON/OFF}}$ output.
11	$\overline{\text{O-CLK-SHIFT}}$	O	U-COM clock shift output.
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-HP-MUTE}}$	–	Not connected.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	$\overline{\text{HOLD}}$	I	Power failure detected input "1" to stop clock and main memory.
20	KEY-1	I	KEY input. (A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-MIC	I	Microphone input for AUTO VF display.
25	I-TU-SIG/MS	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input . TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	$\overline{\text{I-RMC}}$	I	System remote control signal input.
30~37	G9~G2	O	FL GRID output G2~G9.
38~43	P32~P27	O	FL SEGMENT output P27~P32.
44	G1	O	FL grid output G1.
45	P26	–	FL SEGMENT output P26.
46	VDD3	–	Power supply input.
47	SPEANA-A/P25	O	Spectrum analyzer band switching output /FL segment P25 output.
48	SPEANA-B/P24	O	Spectrum analyzer band switching output /FL segment P24 output.
49	SPEANA-C/P23	O	Spectrum analyzer band switching output /FL segment P23 output.
50	P22/H-DUBB INH	I/O	FL segment P22 output / high dubbing inhibit input to diode.
51	VP	–	Power supply input for FL display.
52	P21/AM-ST	I/O	FL segment P21 output / AM stereo input to diode.
53	P20/LW	I/O	FL segment P20 output / LW mode data input to diode.
54	P19/SW	I/O	FL segment P19 output / SW mode data input to diode.

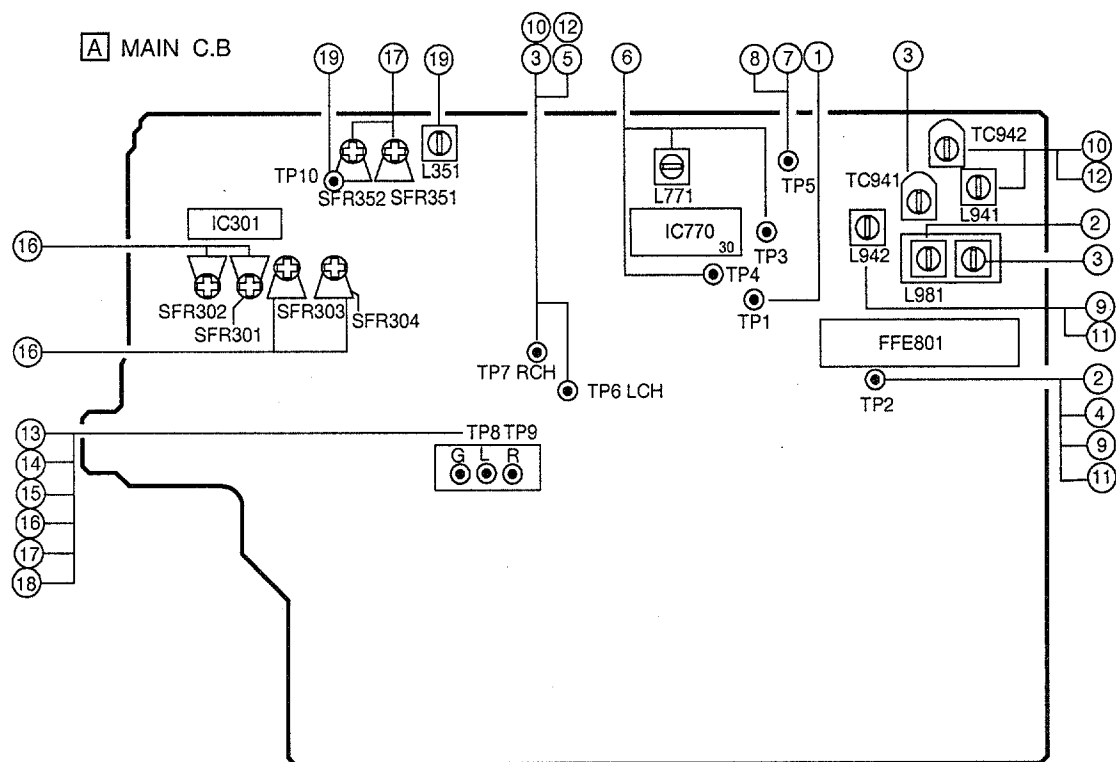
Pin No.	Pin Name	I/O	Description
55	P18/FM 1	I/O	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	I/O	FL segment P17 output / RDS data input to diode.
57	P16/BBE	I/O	FL segment P16 output / BBE data input to diode.
58	P15/DSP	I/O	FL segment P15 output / DSP data input to diode.
59	P14/DOLBY-SURR	I/O	FL segment P14 output / DOLBY-SURR data input to diode.
60	P13/K-CON	I/O	FL segment P13 output / K-CON data input to diode.
61	P12/DOLBY	I/O	FL segment P12 output / DOLBY data input to diode.
62	P11/WAY	I/O	FL segment P11 output / DECK/WAY MECHA data input to diode.
63	P10/AM-9K/10K	I/O	FL segment P10 output / INITIAL AM 10 kHz step data input to diode.
64	P9/CST 2	I/O	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/REB	I/O	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/CAM 2	I/O	FL segment P7 output / DECK2 CAM switch data input.
67	P6/AUTO 1	I/O	FL segment P6 output / DECK1 AUTO stop signal input.
68	P5/AUTO 2	I/O	FL segment P5 output / DECK2 AUTO stop signal input.
69	P4/CAM 1	I/O	FL segment P4 output / DECK1 CAM switch data input.
70	P3/CST 1	I/O	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/REA	I/O	FL segment P2 output / DECK2 side A record OK switch data input.
72	VDD 4	–	Power supply input.
73	P1/2092	I/O	FL segment P1 output / SHIFT resistor IC 2092 data input to diode.
74	K-SCAN	O	Switch SCAN timing output.
75	L CK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for MAIN PWB.
79	DATA	O	DATA output for MAIN, FRONT, PROLOGIC PWB.
80	CLK	O	CLOCK output for MAIN,FRONT, PROLOGIC PWB.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD TRAY OPEN data output.
84	TRAY-CLOSE	O	CD TRAY CLOSE data output.
85	$\overline{\text{LED}} \blacktriangleright\blacktriangleright$	O	$\blacktriangleright\blacktriangleright$ LED $\overline{\text{ON}}$ /OFF output.
86	$\overline{\text{LED}} \blacktriangleleft\blacktriangleleft$	O	$\blacktriangleleft\blacktriangleleft$ LED $\overline{\text{ON}}$ /OFF output.
87	$\overline{\text{LED}} \blacktriangleright$	O	$\blacktriangleright$ LED $\overline{\text{ON}}$ /OFF output.
88	$\overline{\text{LED}} \blacktriangleleft$	O	$\blacktriangleleft$ LED $\overline{\text{ON}}$ /OFF output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED}} \blacksquare$	O	$\blacksquare$ LED $\overline{\text{ON}}$ /OFF output.
92	$\overline{\text{LED}} \blacksquare\blacksquare$	O	$\blacksquare\blacksquare$ LED $\overline{\text{ON}}$ /OFF output.
93	$\overline{\text{SOL}} 1$	O	DECK 1 Solenoid output.
94	$\overline{\text{SOL}} 2$	O	DECK 2 Solenoid output.
95	O-MOTOR	O	DECK MOTOR $\overline{\text{ON}}$ /OFF output.
96	I-IFC/I-SUB Q	I	Tune IF count serial data input /CD SUB Q data input.

Pin No.	Pin Name	I/O	Description
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DATA/O-DATA	I/O	RDS data input/CD data output.
99	O-CD CE	O	CD CE output.
100	O-CD CLK	O	CD CLOCK output.

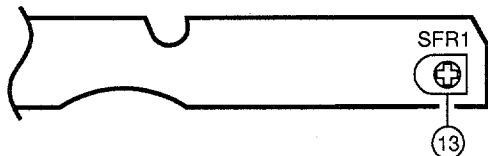
IC, LC72131

Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	–	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866548V-5E54) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866548V-5E54).																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / AM	O	Output "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	–	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	–	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	–	Ground.																								

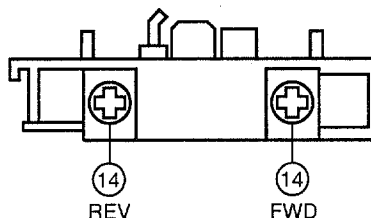
ADJUSTMENT <TUNER / DECK>



F DECK C.B.



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



< TUNER SECTION >

1. Clock Frequency Check

Settings : • Test point : TP1

Method : Set to MW 1710kHz and check that the test point is $2160\text{kHz} \pm 45\text{Hz}$. <HE, LH>
Set to MW 1602kHz and check that the test point is $2052\text{kHz} \pm 45\text{Hz}$. <HS, G>

2a. MW VT Adjustment <HE, G>

Settings : • Test point : TP2 (VT)

Method : <HE>

Set to MW 1710kHz and adjust L981 so that the test point is $8.5\text{V} \pm 0.05\text{V}$.
Then, set to MW 530kHz and check that the test point is more than 0.3V.

<G>

Set to MW 531kHz and adjust L981 so that the test point is $1.5\text{V} \pm 0.05\text{V}$.
Then, set to MW 1602kHz and check that the test point is less than 8.5V.

2b. MW VT Check <HS, LH>

Settings : • Test point : TP2 (VT)

Method : <HS>

Set to MW 1602kHz and check that the test point is $5.8\text{V} \pm 1.0\text{V}$.

<LH>

Set to MW 1710kHz and check that the test point is $6.0\text{V} \pm 1.0\text{V}$.

3a. MW Tracking Adjustment<HE>

Settings : • Test point : TP6, TP7

• Adjustment location :

L981 600kHz

TC941 1400kHz

Method : Set up TC941 to center before adjustment. The level at 600kHz is adjusted to MAX by L981. Then, the level at 1400kHz is adjusted to MAX by TC941.

3b. MW Tracking Adjustment<EXCEPT HE>

Settings : • Test point : TP6, TP7

• Adjustment location :

L981 999kHz<HS, G>

L981 1000kHz<LH>

4. FM VT Check

Settings : • Test point : TP2 (VT)

Method : Set to FM 108.0MHz and check that the test point is less than 8.5V. Set to FM 87.5MHz and check that the test point is more than 1.5V.

5. FM Tracking Check

Settings : • Test point : TP6, TP7

Method : • Set to FM 98.0MHz and check that the test point is $2.0 \pm 6.0\text{dB}$ <EXCEPT G>, $6.0 \pm 6.0\text{dB}$ <G>.

6. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4

• Adjustment location : L771

• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$.
Next, check that the distortion is less than 1.3%

7. Auto Stop Level Check

Settings : • Test point : TP5

• Input level : adjustable

Method : Set to FM 98.0 MHz and check that the voltage low about 0.1V. After that voltage high about 7.0V out by 2dB down.

8. Auto Stop Level Check

FM

Settings : • Test point : TP5

• Input level : adjustable

Method : Set to FM 98.0MHz and check that the test point is $25dB \pm 10dB$.

MW

Settings : • Test point : TP5

• Input level : adjustable

Method : Set to MW 999kHz <EXCEPT LH>, MW 1000kHz <LH> and check that the test point is $35 \sim 60dB$.

SW<HE>

Settings : • Test point : TP5

• Input level : adjustable

Method : Set to SW 12MHz and check that the test point is less than 60dB.

9. SW VT Adjustment <HE>

Settings : • Test point : TP2 (VT)

Method : Set to SW 17.9MHz and adjust L942 so that the test point is $7.0V \pm 0.05V$.

10. SW Tracking Adjustment<HE>

Settings : • Test point : TP6, TP7

• Adjustment location :

L941 5.9MHz

TC942 17.9MHz

Method : Set up TC941 to center before adjustment. The level at 5.9MHz is adjusted to MAX by L941. Then, the level at 17.9MHz is adjusted to MAX by TC942.

11. LW VT Adjustment <G>

Settings : • Test point : TP2 (VT)

Method : Set to LW 144kHz and adjust L942 so that the test point is $1.3V \pm 0.05V$.

12. LW Tracking Adjustment<G>

Settings : • Test point : TP6, TP7

• Adjustment location :

L941 144kHz

TC942 290kHz

Method : Set up TC941 to center before adjustment. The level at 144MHz is adjusted to MAX by L941. Then, the level at 290MHz is adjusted to MAX by TC942.

< DECK SECTION >

13. Tape Speed Adjustment

Settings : • Test tape : TTA-100

• Test point : TP8, TP9

• Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the frequency counter reads $3000Hz \pm 5Hz$.

14. Head Azimuth Adjustment

Settings : • Test tape : TTA-410

• Test point : TP8, TP9

• 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.

15. PB Frequency Response Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-410

• Test point : TP8, TP9

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 2dB.

16. PB Sensitivity Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-200

• Test point : TP8, TP9

• Adjustment location :

SFR301 (DECK 1, Lch)

SFR302 (DECK 1, Rch)

SFR303 (DECK 2, Lch)

SFR304 (DECK 2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 330mV.

17. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

• Input signal : 1kHz / 10kHz (LINE IN)

• Adjustment location : SFR351 (Lch)

SFR352 (Rch)

Method : Apply a 1kHz signal and REC mode.
Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 210mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0dB \pm 0.5dB$ with respect to that of the 1kHz signal.

18. REC/PB Sensitivity Check

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

Method : Apply a 1kHz signal and REC mode.
and check that the output level at the TP8, TP9 is 21mV. Record and play back the 1kHz signals so that the output level is $17mV \pm 3dB$.

19. Bias OSC Frequency Adjustment

Settings : • Test tape : TTA-601

• Test point : TP10

• Adjustment location : L351

Method : Set to the REC mode. Adjust L351 so that the frequency counter of the test point is $85kHz \pm 1kHz$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	EXCEPT G : 2dB $\pm$ 6dB [at 87.5 / 98.0 / 108.0MHz] G : 6dB $\pm$ 6dB [at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	EXCEPT G : 30dB $\pm$ 6dB [at 87.5 / 98.0 / 108.0MHz] G : 34dB $\pm$ 6dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	More than 65dB [at 98.0MHz]<MONO> More than 64dB [at 98.0MHz]<STEREO>
Distortion :	1.3% [at 98.0MHz]<MONO> Less than 2.0% [at 98.0MHz]<STEREO>
Stereo separation :	EXCEPT G : More than 25dB G : More than 22dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<LW SECTION>[G]

Sensitivity :	Less than 71dB [at 144kHz]
(S/N 20 dB)	Less than 68dB [at 198 / 290kHz]
Distortion :	Less than 1.5% [at 198kHz]
Intermediate frequency :	450kHz

<MW SECTION>

Sensitivity :	55dB $\pm$ 5dB [at 600kHz]
(S/N 20 dB)	53dB $\pm$ 5dB [at 1000 / 1400kHz]
Distortion :	Less than 1.5% [at 1000kHz]
Intermediate frequency :	450kHz

<SW SECTION>[HE]

Sensitivity :	38dB $\pm$ 5dB [at 5.9MHz]
(S/N 20 dB)	33dB $\pm$ 5dB [at 12.0MHz] 30dB $\pm$ 8dB [at 17.9MHz]
Distortion :	Less than 1.5% [at 12.0MHz]
Intermediate frequency :	450kHz

<DECK SECTION>

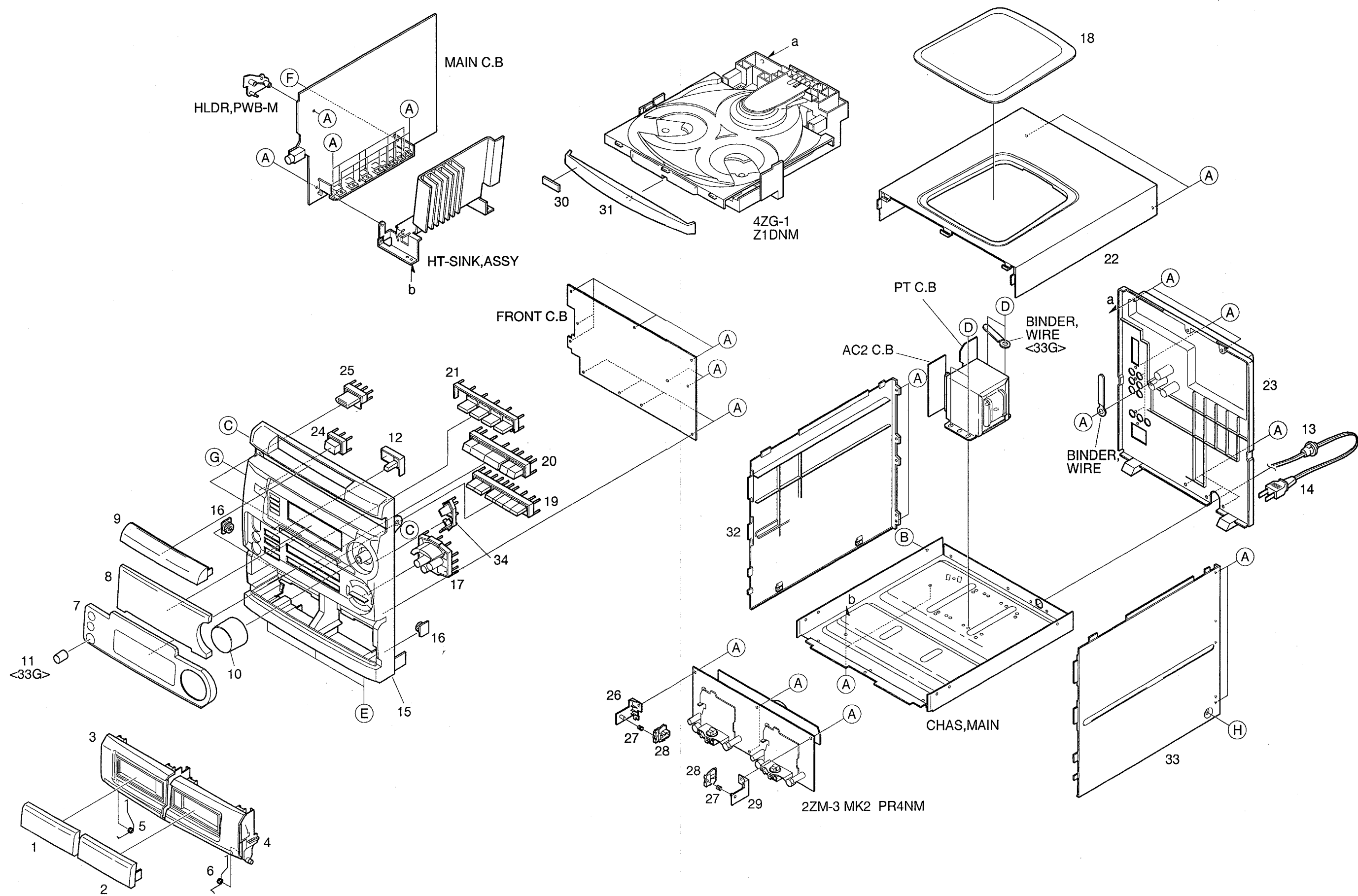
<2ZM-3MK2>

Tape speed :	3000Hz $\pm$ 45Hz
Wow & flutter :	Less than 0.21% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)

<6ZM-3>

Tape speed :	3000Hz $\pm$ 45Hz
Wow & flutter :	Less than 0.25% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)

PB Output level :	2.9V $\pm$ 3dB (SP OUT 2V)
REC/PB Output level :	1.9V $\pm$ 3dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2)
Noise level (PB) :	Less than 18mV (DOLBY NR ON / OFF NORM. Vol MAX.)
Noise level (REC/PB) :	Less than 20mV (DOLBY NR ON / OFF NORM.)
Crosstalk :	More than 60dB (1kHz, 0VU)
Channel separation :	More than 30dB (1kHz, 0VU)
Erasing ratio :	More than 60dB (at 125Hz)
Test tape :	NORMAL : TTA-602 CrO2 : TTA-320

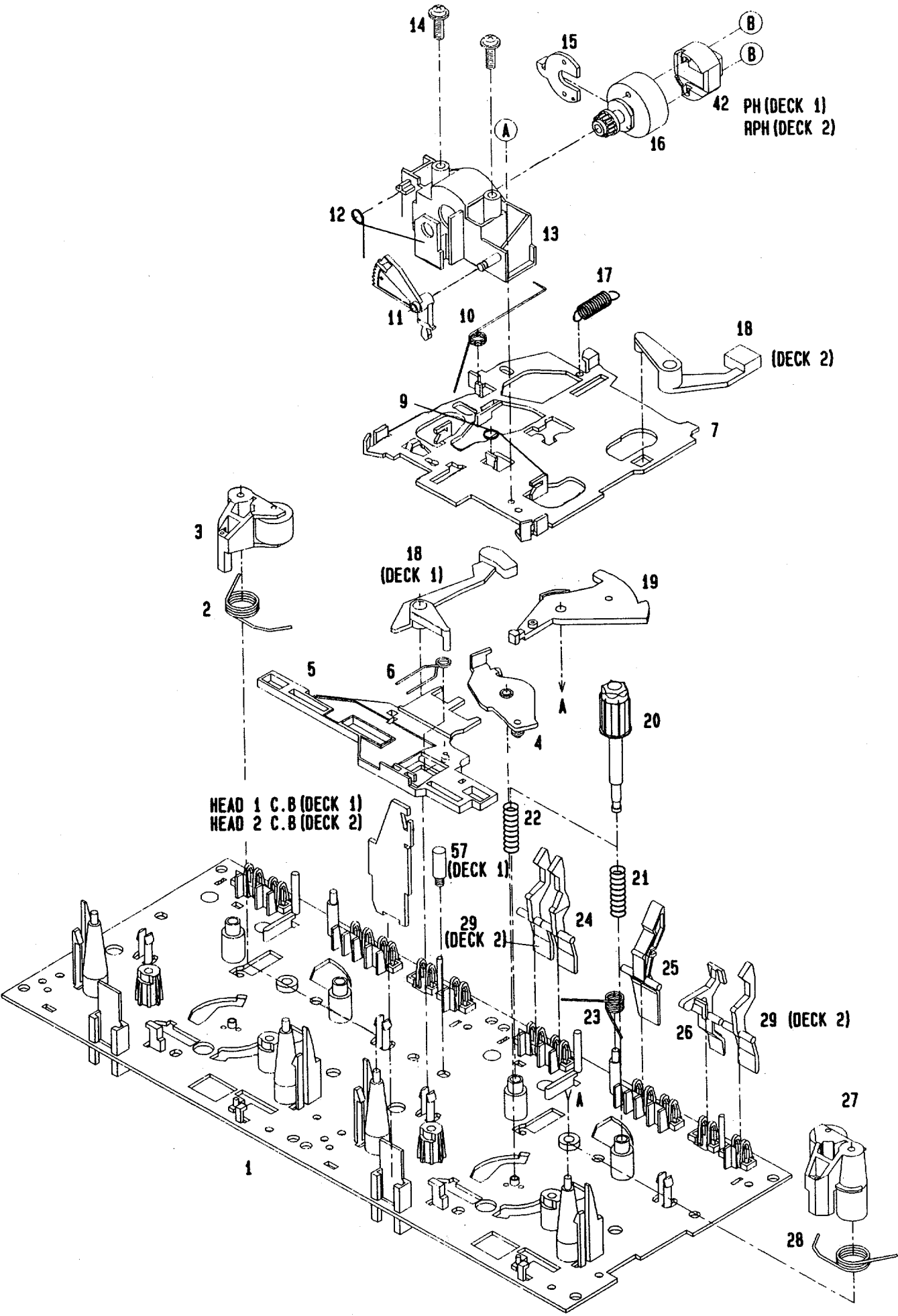


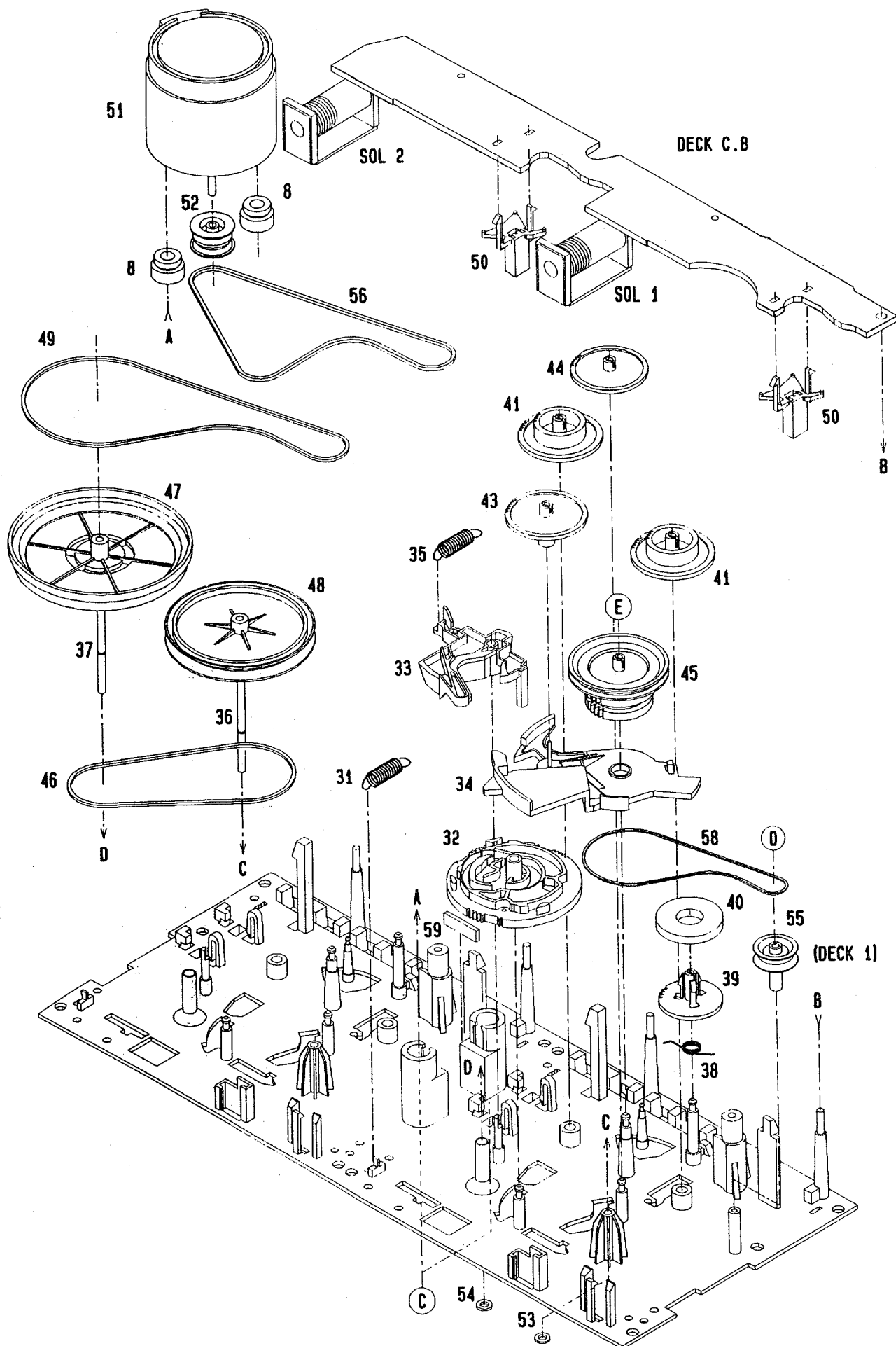
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF6-041-010		WINDOW, CASS 1	18	86-NF6-007-010		WINDOW, TOP
2	87-NF6-042-010		WINDOW, CASS 2	19	87-NF7-028-010		KEY, DSP<HS>
3	87-NF6-011-010		BOX, CASS 1H<LH, HE>	19	87-NF7-082-010		KEY, DSP HIGH<LH, HE>
3	87-NF7-010-210		BOX, CASS 1H<HS>	19	87-NF7-081-010		KEY, REC HIGH<G>
3	87-NF6-013-210		BOX, CASS 1E<G>	20	87-NF7-029-010		KEY, PLAY REV<HS, LH>
4	87-NF6-012-210		BOX, CASS 2H<LH, HE>	21	87-NF7-022-010		KEY, FUNCTION
4	87-NF7-012-110		BOX, CASS 2H<HS>	22	87-NF6-021-010		PANEL, TOP
4	87-NF6-014-210		BOX, CASS 2E<G>	23	87-NF7-066-010		CABI, REAR HSSTNM<HS>
5	82-NF5-218-010		SPR-T, EJECT 1(SIN)	23	87-NF7-067-010		CABI, REAR LHJSTKM KIT<LH>
6	82-NF5-219-010		SPR-T, EJECT 2(SIN)	23	87-NF7-061-110		CABI, REAR<G>
7	87-NF7-076-010		PANEL, FR H HIGH<LH, HE>	23	87-NF7-041-110		CABI, REAR<HE>
7	87-NF7-078-010		PANEL, FR LH<G>	24	87-NF6-025-010		KEY, POWER
7	87-NF7-015-010		PANEL, FR H<HS>	25	87-NF6-034-010		KEY, KARAOKE
8	87-NF7-031-010		WINDOW, DISPLAY H<HE>	26	87-NF4-216-010		HLDR, LOCK
8	87-NF7-038-010		WINDOW, DISPLAY<HS>	27	82-NF5-228-010		SPR-C, LOCK
8	87-NF7-074-010		WINDOW, DISPLAY<LH>	28	82-NF5-229-010		PLATE, LOCK
8	87-NF7-039-010		WINDOW, DISPLAY<G>	29	87-NF4-217-010		HLDR, LOCK 2
9	87-NF6-043-010		WINDOW, CD	30	82-NF6-067-010		BADGE, AIWA 30N
10	87-NF6-036-010		KNOB, RTRY VOL	31	87-NF6-018-010		PANEL, TRAY E
11	87-NF6-037-010		KNOB, RTRY MIC<G>	32	87-NF6-022-010		PANEL, LEFT
12	87-NF7-026-010		KEY, DEMO H<HS, LH>	33	87-NF6-023-110		PANEL, RIGHT
13	87-085-185-010		BUSHING, AC CORD(E) CM-22B	34	87-NF6-028-110		KEY, MIC<HS, LH, HE>
△ 14	87-050-081-010		AC CORD ASSY, E BLK<G>	A	87-067-703-010		BVT2+3-10 W/O SLOT
△ 14	87-050-079-010		AC CORD ASSY, E BLK<LH, HE>	B	87-721-096-410		QT2+3-10 W/O SLOT
△ 14	87-A80-006-010		AC CORD ASSY, HS<HS>	C	87-721-097-410		QT2+3-12 W/O SLOT
15	87-NF7-071-010		CABI, FR H-HIGH<LH, HE>	D	87-078-019-010		S-SCREW, IT+4-6 SWCH12A
15	87-NF7-001-110		CABI, FR H<HS>	E	87-067-688-010		BVTT+3-6
15	87-NF7-072-110		CABI, FR E<G>	F	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
16	87-063-165-010		OIL-DMPR, 150	G	87-723-096-410		QT2+3-10 W/O SLOT
17	87-NF7-021-010		KEY, CD	H	87-067-641-010		UTT2+3-8 W/O SLOT

TAPE MECHANISM EXPLODED VIEW 1 / 1 (2ZM-3 MK2)



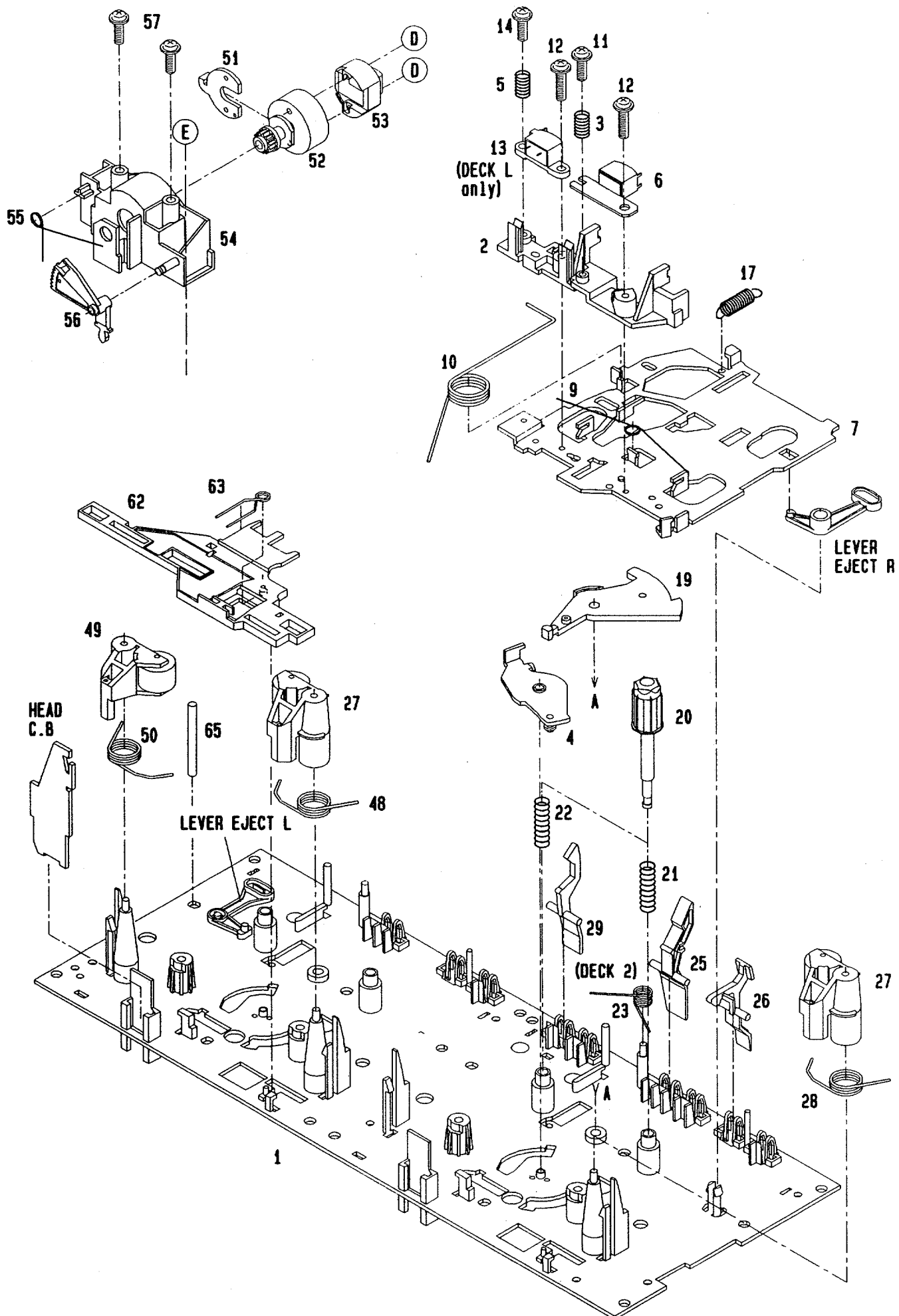


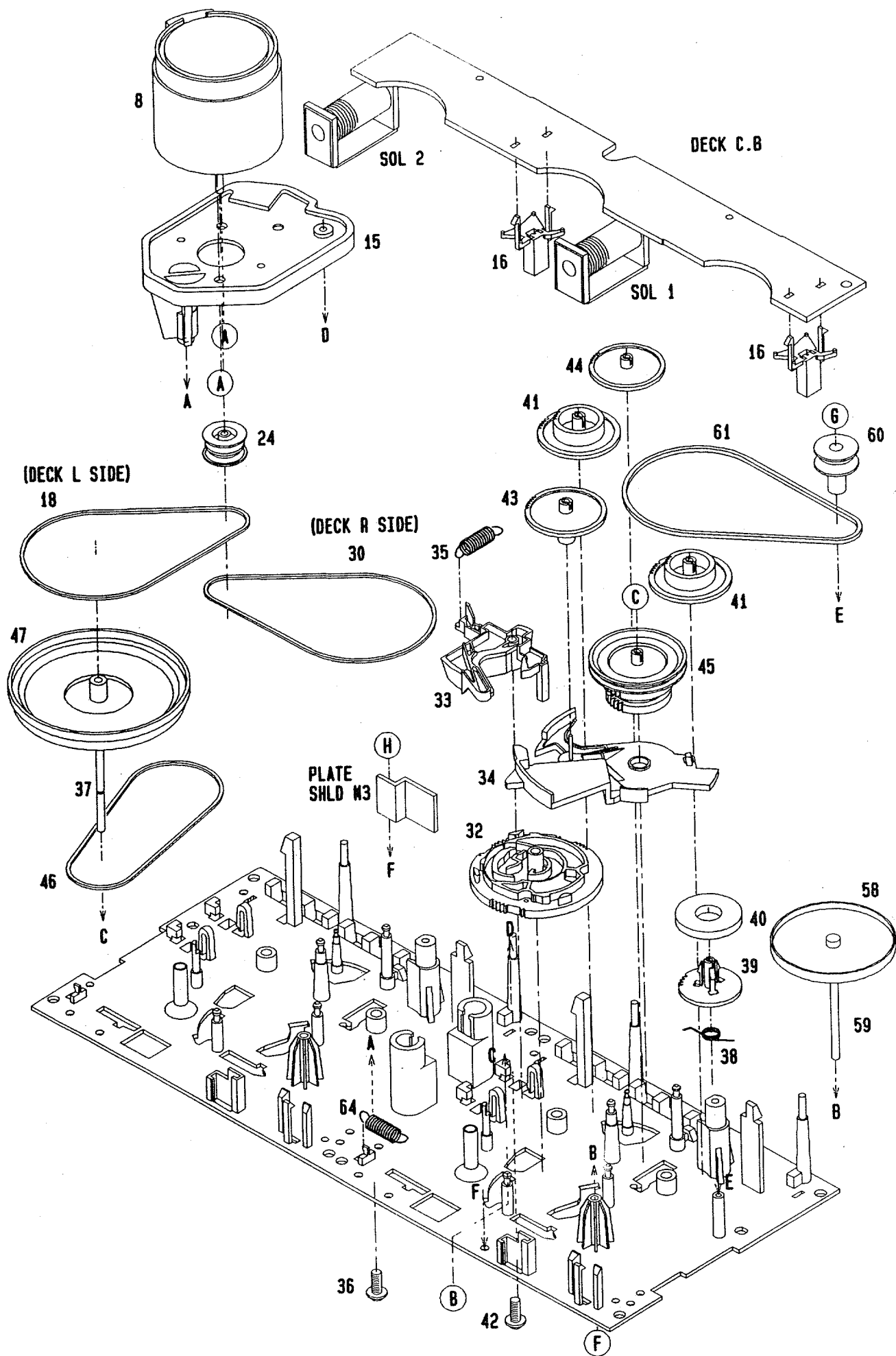
TAPE MECHANISM PARTS LIST 1 / 1 (2ZM-3 MK2)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T,PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-019		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-219		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-119		SPR-T,LINK	44	82-ZM1-226-019		GEAR,REW
11	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
15	82-ZM1-314-119		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
17	82-ZM1-218-019		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70(M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-319		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-019		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-119		SPR-E,TRIG				

TAPE MECHANISM EXPLODED VIEW 1 / 1 (6ZM-3 PR2)



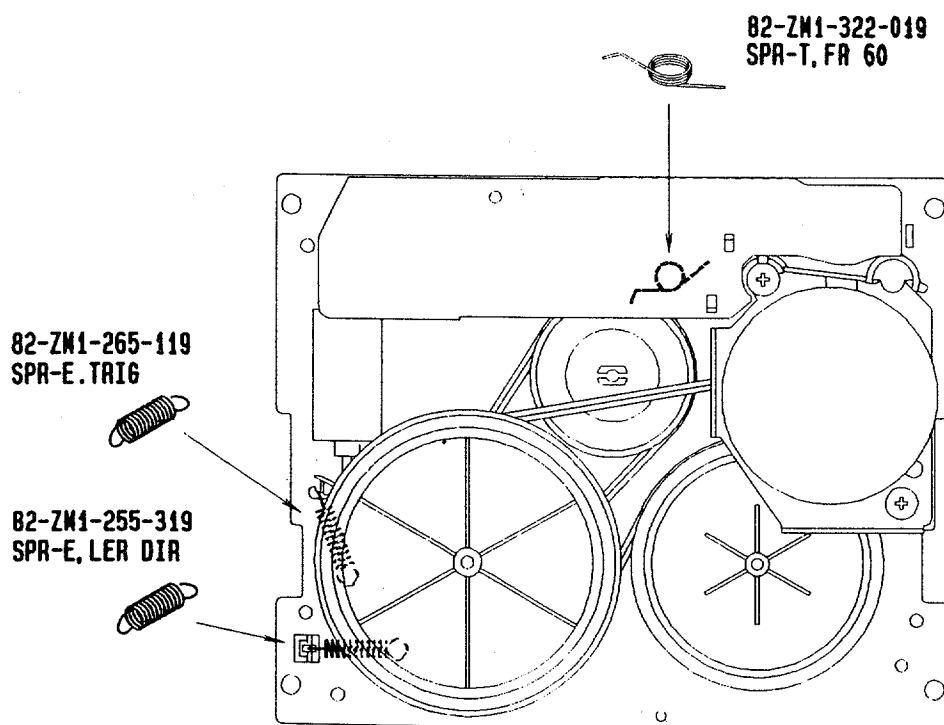
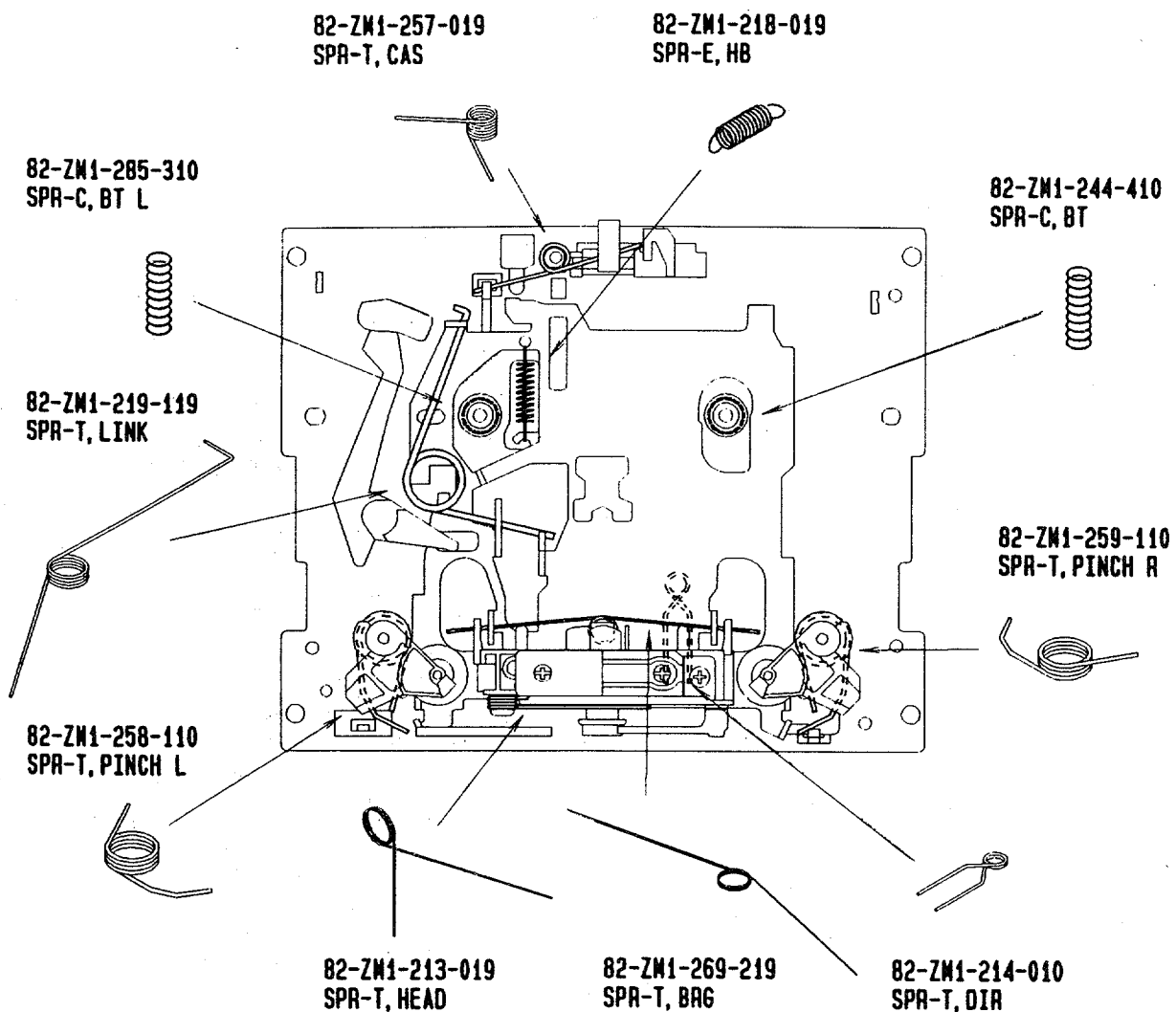


TAPE MECHANISM PARTS LIST 1 / 1 (6ZM-3 PR2)

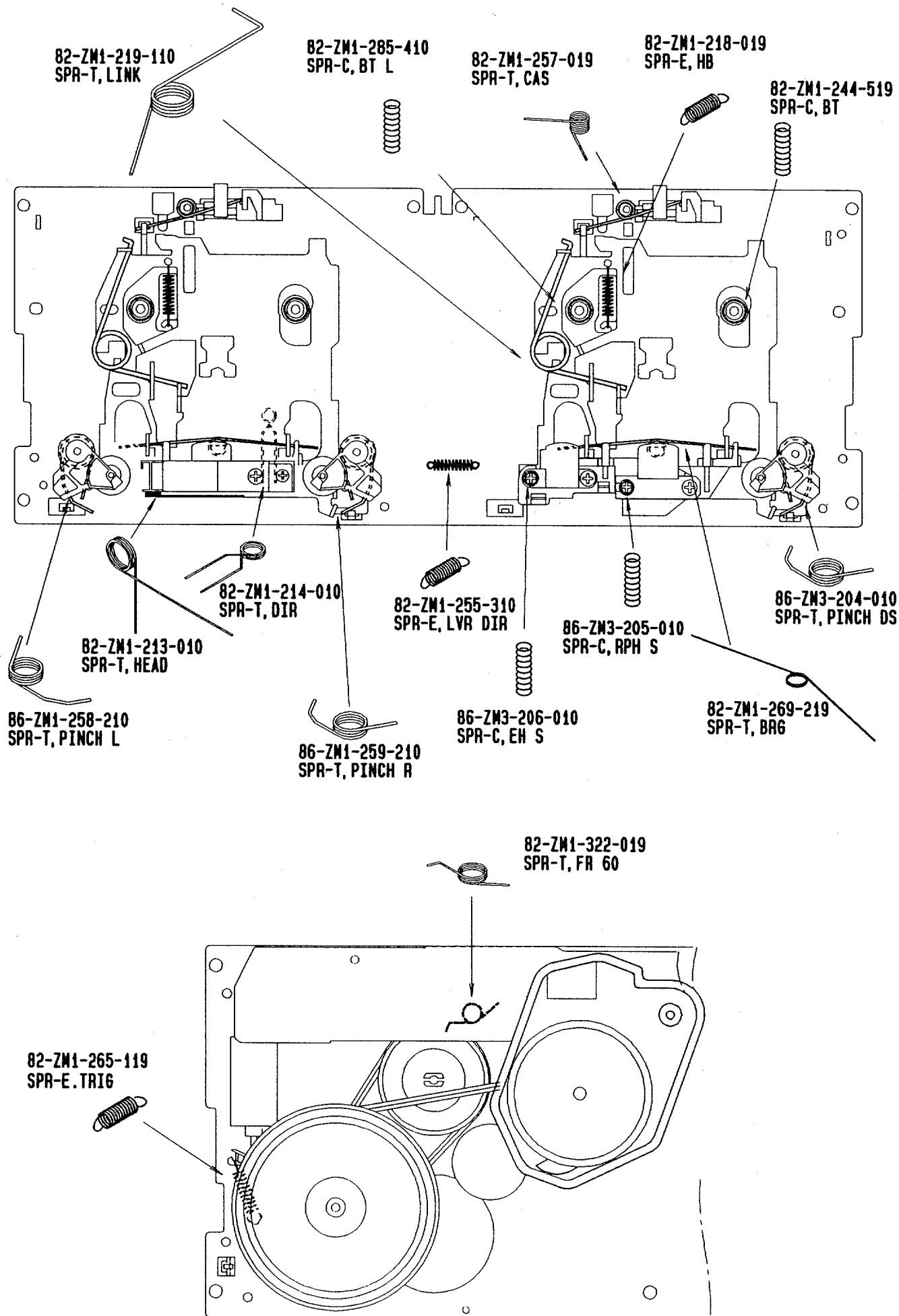
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

1	86-ZM3-215-010	CHAS ASSY,RS	41	82-ZM1-216-319	GEAR,REEL
2	86-ZM3-202-010	BASE,HEAD S	42	86-ZM3-213-010	S-SCREW,HLDR,MOT 3
3	86-ZM3-205-010	SPR-C,RPH S	43	82-ZM1-225-219	GEAR,FR
4	82-ZM1-333-210	PLATE,LINK 2	44	82-ZM1-226-019	GEAR,REW
5	86-ZM3-206-010	SPR-C,EH S	45	82-ZM3-333-310	SLIP DISK ASSY 2
6	87-A90-403-019	HEAD,RPH MS15R	46	82-ZM1-338-010	BELT FR4
7	86-ZM3-201-010	CHAS,HEAD S(DECK L)	47	82-ZM1-349-019	FLY-WHL RW (DECK L)
7	82-ZM3-206-910	CHAS,HEAD(DECK R)	47	82-ZM3-338-010	FLY-WHL R3W (DECK R)
8	87-045-347-019	MOT,SHU2L 70(M1)	48	82-ZM1-259-210	SPR-T,PINCH R
9	82-ZM1-269-219	SPR-T,BRG	49	82-ZM1-341-110	LVR ASSY,PINCH L2
10	82-ZM1-219-110	SPR-T,LINK	50	82-ZM1-258-210	SPR-T,PINCH L
11	86-ZM3-209-010	S-SCREW,ASIMUTHS	51	82-ZM1-314-110	PLATE,HEAD
12	86-ZM3-207-010	S-SCREW,RPH	52	82-ZM1-208-310	HLDR,HEAD
13	87-A90-404-019	HEAD,EH LE15B	53	87-A90-366-010	HEAD,PH YK50P-BF414
14	86-ZM3-208-010	S-SCREW,EH	54	82-ZM1-207-810	GUIDE TAPE
15	86-ZM3-203-010	HLDR,MOTS	55	82-ZM1-213-010	SPR-T,HEAD
16	82-ZM1-245-210	HLDR,IC	56	82-ZM1-210-110	GEAR,HT
17	82-ZM1-218-019	SPR-E,HB	57	86-ZM4-206-010	S-SCREW AZIMUTH L
18	86-ZM3-214-010	BELT,SUB RR	58	82-ZM1-348-010	FLY-WHL,LW
19	82-ZM1-222-219	LVR,PLAY	59	82-ZM1-236-019	CAPSTAN N 2-41.5
20	82-ZM1-217-419	REEL TABLE	60	82-ZM3-335-210	PULLEY,COUPLER M3
21	82-ZM1-244-519	SPR-C,BT	61	86-ZM1-206-010	BELT,MAIN L
22	82-ZM1-285-410	SPR-C,BT L	62	82-ZM1-266-110	LVR,DIR
23	82-ZM1-257-019	SPR-T,CAS	63	82-ZM1-214-010	SPR-T,DIR
24	82-ZM3-221-010	PULLEY,MOT 2M	64	82-ZM1-255-310	SPR-E,LVR DIR
25	82-ZM1-242-019	LVR,CAS	65	82-ZM3-339-010	SHAFT,COUPLER N3
26	82-ZM1-243-019	LVR,STOP	A	87-251-071-417	U+2.6-4
27	82-ZM1-344-119	LVR ASSY,PINCH	B	80-ZM6-243-019	SH,1.75-3.6-0.5 SLT
28	86-ZM3-204-010	SPR-T,PINCHDS	C	82-ZM3-334-010	PW,2.16-6-0.4
29	82-ZM1-240-119	LVR,REC (DECK 2)	D	80-ZM6-207-010	V+1.6-7
30	86-ZM3-210-010	BELT,RS	E	85-ZM3-202-010	S-SCREW TG
32	82-ZM3-305-119	GEAR,CAM M2	F	82-ZM1-288-010	SH,1.63-3.2-0.5 SLT
33	82-ZM1-227-319	LVR,TRIG	G	87-B10-043-010	W-P,0.99-4-0.25 SLT
34	82-ZM3-306-110	LVR,FR M2	H	87-571-032-410	VIT+2-3
35	82-ZM1-265-119	SPR-E,TRIG			
36	87-761-073-419	VFT2+2.6-6 W/O SLOT			
37	82-ZM1-239-019	CAPSTAN N 2.2-41.7			
38	82-ZM1-322-019	SPR-T,FR60			
39	82-ZM1-220-219	GEAR,IDLER			
40	82-ZM3-616-019	RING MAGNET 4			

SPRING APPLICATION POSITION (2ZM-3 MK2)



SPRING APPLICATION POSITION (6ZM-3 PR2)

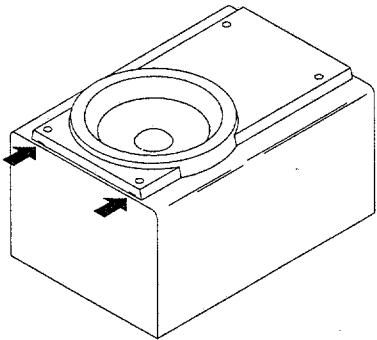


SPEAKER DISASSEMBLY INSTRUCTIONS (SX-NS30)

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。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外してください。

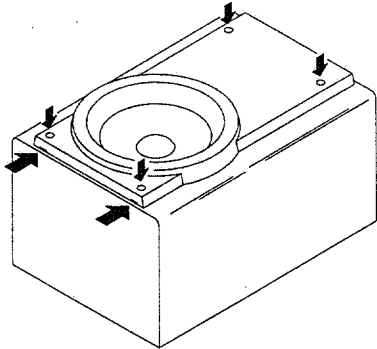
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャップをマイナスドライバーで端の方から持ち上げて外すと中にビスがありますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。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外してください。

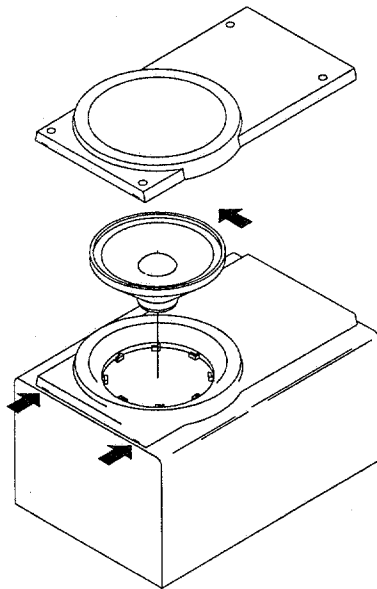
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



SPEAKER PARTS LIST (SX-NS30)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSH-001-019		PANEL,FR R
2	87-NSH-002-019		PANEL,FR L
3	87-NSH-005-019		NET
4	87-NS7-608-019		SPKR,W 2.0
5	87-NS7-610-019		SPKR,W 0.5
6	87-NS7-611-019		CORD,SPKR

SPEAKER EXPLODED VIEW 1 / 1 (SX-FNS36 → YJSTNC, YLJSKM)

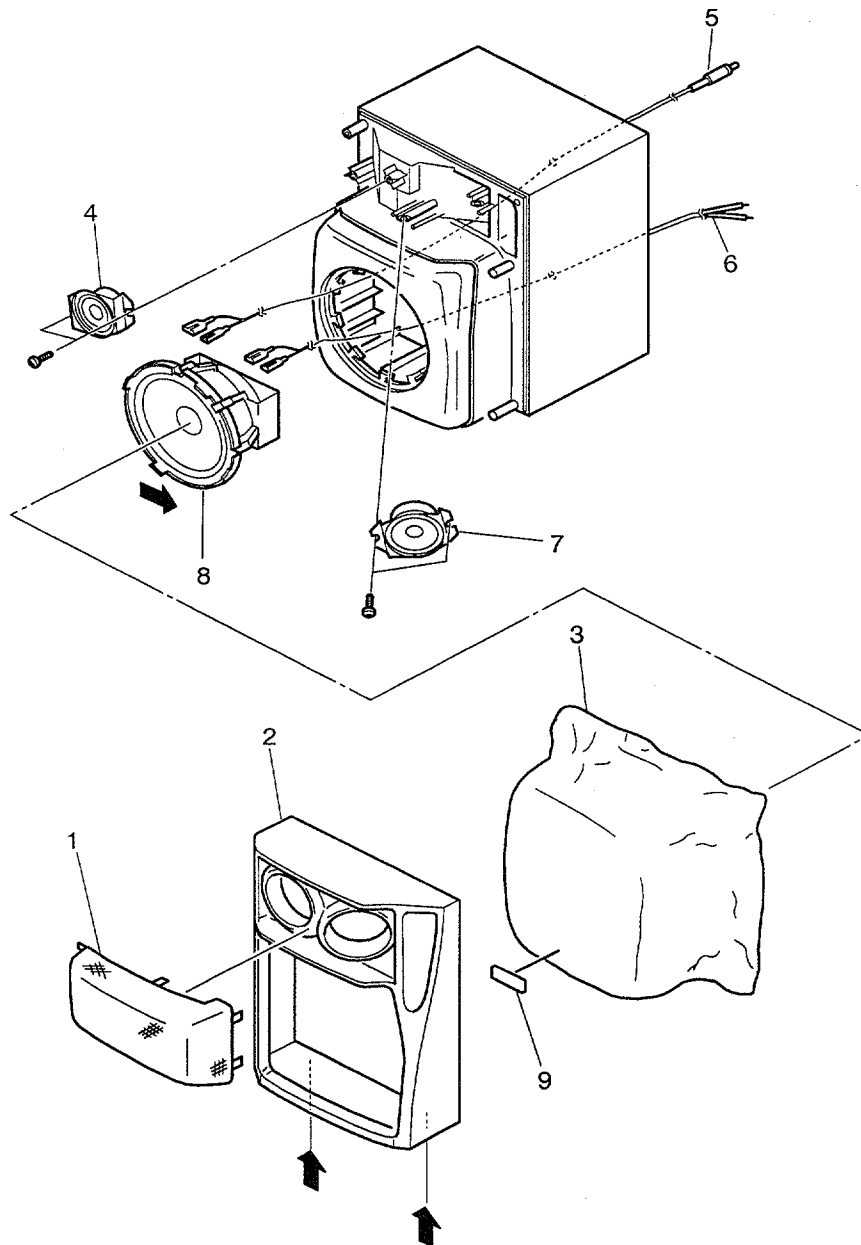
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.

Turn the speaker unit to counterclockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit.

After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



SPEAKER PARTS LIST 1 / 1 (SX-FNS36 → YJSTNC, YLJSKM)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-NS7-006-010		NET	6	87-NS7-614-010		SPKR, CORD(YLJSKM)
2	87-NS7-001-010		PANEL, FR R(EXCEPT YLJSKM)	7	87-NS7-606-010		SPKR, SU 60
2	87-NS7-002-010		PANEL, FR L(EXCEPT YLJSKM)	8	87-NS7-602-010		SPKR, W 140
2	87-NS7-016-010		PANEL, FR R ASSY(YLJKM)	9	86-NS5-012-010		BADGE, AIWA 35(YLJSKM)
2	87-NS7-017-010		PANEL, FR L ASSY(YLJKM)	10	87-NS7-022-010		VTS2+3.5-12(YLJSKM)
3	87-NS7-005-010		PROTECTOR, TW				
4	87-NS7-603-010		SPKR, T 60				
5	87-NS4-610-010		SPKR, CODE Y/B(EXCEPT YLJSKM)				
5	87-NS7-615-010		SPKR, CORD Y/B(YLJSLM)				
6	87-NS6-601-010		SPKR, CORD(EXCEPT YLJSKM)				

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF7-923-010		IB,H(KIT)THAI-36<HE>
1	87-NF7-931-010		IB,LH(KIT)CCE-37<LH>
1	87-NF7-904-119		IB,G(E)M<G>
1	87-NF7-930-010		IB,HS(H)M-32<HS>
2	87-006-225-010		ANT,LOOP ANT NC2<HS,LH,G>
2	87-043-095-010		ANT,WIRE<HE>
2	87-A90-054-016		ANT,LOOP AM-CON C<HE>
3	87-043-106-010		ANT,FM-1007AWG<G>
3	87-A90-064-010		FEEDER-ANT,FM (SHS)<HE,HS,LH>
△ 4	87-A90-312-016		PLUG,CONVERSION WTN-1157R1<HE,LH>
5	87-NF6-635-010		RC UNIT,RC-7AS06

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
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

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

サービス技術ニュース	
番号	連絡内容
G- -	
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G- -	

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