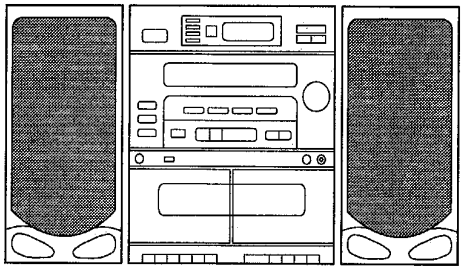
aiwa

aiwa SERVICE

NSX-V100



COMPACT DISC/
STEREO CASSETTE RECEIVER

- BASIC TAPE MECHANISM: TN-21ZSW-1622
- BASIC CD MECHANISM: 3ZG-3 A6N
- TYPE: EZ,K,V,LH,HE,EEZ

SYSTEM	CENTER UNIT	SPEAKER	REMOTE CONTROLLER
NSX-V100	CX-NV100	SX-NV100	RC-NV100

SERVICE MANUAL

S/M Code No. 09-96B-136-90T

TABLE OF CONTENTS

SPECIFICATIONS

HE MODEL

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Antenna	Wire antenna

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Antenna	Loop antenna

SW tuner section

Tuning range	3.8 MHz to 12.5 MHz
Antenna	Wire antenna

Amplifier section

Power output	Rated: 7 W + 7 W (4 ohms, T.H.D. 1%, 1 kHz) Reference: 10 W + 10 W (4 ohms, T.H.D. 10%, 1 kHz)

LH MODEL

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Antenna	Wire antenna

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Antenna	Loop antenna

Amplifier section

Power output	10 W + 10 W (4 ohms, T.H.D. 10 % 1 kHz)

V MODEL

FM tuner section

Tuning range	FM1 (OIRT): 65 MHz to 74 MHz (10 kHz step) FM2 (CCIR): 87.5 MHz to 108 MHz (50 kHz step)
Antenna	Wire antenna

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Antenna	Loop antenna

LW tuner section

Tuning range	153 kHz to 288 kHz
Antenna	Loop antenna

Amplifier section

Power output	Rated: 7 W + 7 W (4 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 10 W + 10 W (4 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER 20 W + 20 W

K, EZ, EEZ MODELS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Antenna	Wire antenna

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Antenna	Loop antenna

LW tuner section

Tuning range	153 kHz to 288 kHz
Antenna	Loop antenna

Amplifier section

Power output	Rated: 7 W + 7 W (4 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 10 W + 10 W (4 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)

Cassettedeck section

Track format	4 tracks, 2 channels
Frequency response	Normal tape: 50 Hz – 12000 Hz (EIAJ)
Recording system	AC bias
Erasure system	Magnet erase
Motor	DC motor × 1
Heads	Deck 1: Recording/Playback head × 1 Erasure head × 1 Deck 2: Playback head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
Rotation speed	Approx. 500-200 rpm/CLV
Error correction	Cross interleave, Reed Solomon code
Number of channels	2 channels
D/A converter	1 bit dual

SPEAKER SYSTEM

Cabinet type	2-way bass reflex type
Speakers	120 mm (4 3/4 in.) cone type woofer 20 mm (13/16 in.) ceramic type tweeter
Impedance	4 ohms
Allowable max. input	15 W
Dimensions (W × H × D)	235 × 302 × 235 mm (9 3/8 × 12 × 9 3/8 in.)
Weight	2.8 kg (6 lbs. 3 oz.)

HE MODEL

GENERAL

Power requirements	110-120 V/220-240 V AC, swichable 50/60 Hz
Power consumption	50 W
Dimensions of main unit	260 × 303 × 268.4 mm (10 1/4 × 12 × 10 5/8 in.)
Weight of main unit	4.6 kg (10 lbs. 2 oz.)

LH MODEL

GENERAL

Power requirements	110-120 V/220-240 V AC, swichable 50/60 Hz
Power consumption	50 W
Dimensions of main unit	260 × 303 × 268.4 mm (10 1/4 × 12 × 10 5/8 in.)
Weight of main unit	4.6 kg (10 lbs. 2 oz.)

V, K, EZ, EEZ MODELS

GENERAL

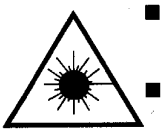
Power requirements	230 V AC, 50 Hz
Power consumption	80 W
Dimensions of main unit	260 × 303 × 268.4 mm (10 1/4 × 12 × 10 5/8 in.)
Weight of main unit	4.6 kg (10 lbs. 2 oz.)

- Design and specifications are subject to change without notice.

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 expo-sure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainit-ulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

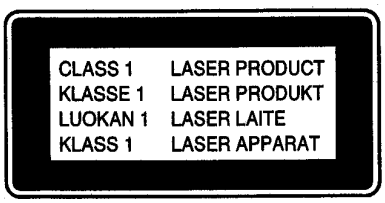
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radi-ation exposure.

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

ADVARSEL!
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

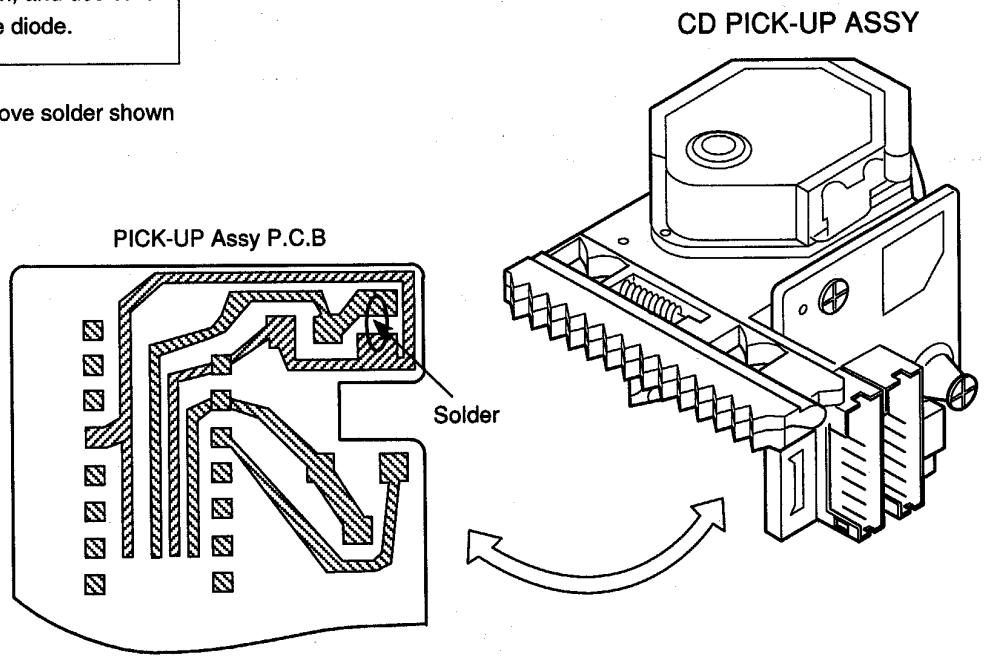
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS-212A)

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

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



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			
	87-001-440-080		IC,BA15218N
	87-020-828-010		IC,BA3416BL
	S3-520-920-000		IC,BU2092
	87-017-804-010		IC,BU4052BC
	87-002-444-010		IC,BU4094B
	87-070-083-010		IC,GP1U281X
⚠	87-002-330-080		IC,ICP-N5
	87-002-268-010		IC,LA1851N
	87-001-376-010		IC,LC7218
	87-017-564-010		IC,LC7533
	86-CT3-601-010		IC,LC867116W-5B12<HE,K,LH,EZ,EEZ>
	86-CT3-605-010		IC,LC867120W-5C19<V>
	87-017-787-010		IC,M62412P
	87-070-417-010		IC,NJM-4558DD
	87-020-903-010		IC,NJM7805FA
	87-070-416-010		IC,NJU7201L55
	87-017-801-080		IC,TA2058F
	87-070-134-010		IC,TA2065F
	87-001-982-010		IC,TA7291S
	87-017-681-010		IC,TA8126SN
	87-017-680-010		IC,TA8176SN
	87-070-308-010		IC,TA8205AH
	87-070-101-010		IC,TC9284AF
TRANSISTOR			
	89-110-155-010		TR,2SA1015-GR
	89-112-965-010		TR,2SA1296GR
	89-113-187-080		TR,2SA1318T/U
	87-026-463-010		TR,2SA933S
	89-213-702-010		TR,2SB1370E/F
	87-026-462-010		TR,2SC1740S
	89-318-154-010		TR,2SC1815-BL
	89-319-233-080		TR,2SC1923
	89-320-011-210		TR,2SC2001K
	89-322-405-680		TR,2SC2240GR
	89-414-683-080		TR,2SD1468S
	89-501-615-080		TR,2SK161
	89-502-464-010		TR,2SK246Y
	87-026-572-080		TR,DTA114TS
	87-026-286-080		TR,DTA143ES
	87-026-486-010		TR,DTA144TS
	87-026-464-010		TR,DTC114TS
	87-026-291-010		TR,DTC124XS
	87-026-287-010		TR,DTC143ES
	87-026-357-080		TR,DTC343TK
DIODE			
	87-020-465-010		DIODE,1SS133
	87-002-225-010		DIODE,DBF 40C-K10
	82-135-799-010		DIODE,IN4148
	S3-MTZ-J15-A00		ZENER,MTZJ15A
	S0-110-100-471		ZENER,UJZJ4.7A<HE>
	S0-100-561-210		ZENER,UJZJ5-6B
	S0-100-821-210		ZENER,UJZJ8-2B
MAIN C.B			
C64	87-010-544-010		CAP,E 0.1-50V
C103	87-010-908-080		CAP,E 220-10V
C104	87-015-696-080		CAP,E 2.2-50V
C108	87-010-401-010		CAP,E 1-50V
C109	87-010-401-010		CAP,E 1-50V
C110	87-010-401-010		CAP,E 1-50V
C111	87-015-963-010		CAP,E 0.33-50V
C113	87-015-698-040		CAP,E 4.7-50V
C116	87-010-415-010		CAP,E 10-50V
C131	87-010-545-010		CAP,E 0.22-50V
C132	87-010-545-010		CAP,E 0.22-50V
C142	87-010-221-810		CAP,E 470-10V
C160	87-010-555-010		CAP,E 100-10V
C167	87-010-403-010		CAP,E 3.3-50V
C194	87-010-555-010		CAP,E 100-10V
C195	87-010-380-010		CAP,E 47-16V
C305	87-010-380-010		CAP,E 47-16V
C306	87-010-380-010		CAP,E 47-16V
C307	87-010-444-080		CAP,E 22-50V
C308	87-010-415-010		CAP,E 10-50V
C309	87-010-545-010		CAP,E 0.22-50V
C310	87-010-545-010		CAP,E 0.22-50V
C311	87-010-908-080		CAP,E 220-10V
C312	87-010-380-010		CAP,E 47-16V
C315	87-010-401-010		CAP,E 1-50V
C316	87-010-401-010		CAP,E 1-50V
C317	87-010-444-080		CAP,E 22-50V
C318	87-010-444-080		CAP,E 22-50V
C319	87-010-415-010		CAP,E 10-50V
C320	87-010-415-010		CAP,E 10-50V
C327	87-015-698-040		CAP,E 4.7-50V
C331	87-010-380-010		CAP,E 47-16V
C351	87-010-401-010		CAP,E 1-50V
C451	87-016-130-080		CAP,E 47-25V
C501	87-010-401-010		CAP,E 1-50V
C502	87-010-401-010		CAP,E 1-50V
C503	87-010-401-010		CAP,E 1-50V
C504	87-010-401-010		CAP,E 1-50V
C505	87-010-555-010		CAP,E 100-10V
C531	87-010-401-010		CAP,E 1-50V
C532	87-010-401-010		CAP,E 1-50V
C539	87-010-545-010		CAP,E 0.22-50V
C540	87-010-545-010		CAP,E 0.22-50V
C541	87-016-130-080		CAP,E 47-25V
C571	87-010-401-010		CAP,E 1-50V
C572	87-010-401-010		CAP,E 1-50V
C574	87-010-401-010		CAP,E 1-50V
C579	87-010-380-010		CAP,E 47-16V
C580	87-010-401-010		CAP,E 1-50V
C581	87-010-544-010		CAP,E 0.1-50V
C582	87-010-221-810		CAP,E 470-10V
C583	87-010-555-010		CAP,E 100-10V
C591	87-010-401-010		CAP,E 1-50V
C592	87-010-401-010		CAP,E 1-50V
C601	87-015-698-040		CAP,E 4.7-50V
C602	87-015-698-040		CAP,E 4.7-50V
C605	87-010-265-010		CAP,E 33-16V
C606	87-010-265-010		CAP,E 33-16V
C607	87-010-415-010		CAP,E 10-50V
C608	87-010-415-010		CAP,E 10-50V
C611	87-015-698-040		CAP,E 4.7-50V
C612	87-010-908-080		CAP,E 220-10V
C613	87-010-045-810		CAP,E 100-25V
C623	87-010-415-010		CAP,E 10-50V
C624	87-010-415-010		CAP,E 10-50V
C628	87-010-415-010		CAP,E 10-50V
C629	87-010-415-010		CAP,E 10-50V
C720	87-010-415-010		CAP,E 10-50V
C721	87-010-780-410		CAP,E 6800-25V
C722	87-010-385-010		CAP,E 220-25V
C723	87-010-908-080		CAP,E 220-10V
C726	87-015-698-040		CAP,E 4.7-50V
C727	87-010-401-010		CAP,E 1-50V
C728	87-010-221-810		CAP,E 470-10V
C729	87-010-401-010		CAP,E 1-50V
C730	87-010-908-080		CAP,E 220-10V
C741	87-010-555-010		CAP,E 100-10V
C743	87-015-698-040		CAP,E 4.7-50V
C831	87-010-415-010		CAP,E 10-50V
C832	87-010-415-010		CAP,E 10-50V

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
CF1	S0-001-070-000		CER,FIL SFE-10.7MA5-M
CF101	S0-001-070-000		CER,FIL SFE-10.7MA5-M
CT51	S2-001-690-000		TRIMMER TZ03R300FR169<HE,LH>
CT51	S2-101-690-000		TRIMMER TZ03T110FR169<EEZ,K,EZ,V>
CT52	S2-001-690-000		TRIMMER TZ03R300FR169<EEZ,K,EZ,V>
CT52	S2-101-690-000		TRIMMER TZ03T110FR169<HE>
CT152	S2-001-690-000		TRIMMER TZ03R300FR169<V>
IFT101	S0-029-200-070		IFT,292MCAS-A617HM
J101	S0-401-020-020		JACK,SP EXT
J601	S0-020-003-500		JACK,HP 3.5MM
J801	S0-002-420-000		JACK,RCAHSP-242V-05
L1	S1-500-200-050		COIL,FM 15-2-0.5
L2	S0-550-550-070		COIL,FM 5.5-5.5-0.7
L3	S0-450-550-070		COIL,FM 4.5-5.5-0.7<EXCEPT V>
L3	S0-650-450-080		COIL,FM 6.5-4.5-0.8<V>
L4	S0-102-270-000		INDUCTOR,2.2UH
L5	S0-450-550-070		COIL,FM 4.5-5.5-0.7<EXCEPT V>
L5	S0-650-450-080		COIL,FM 6.5-4.5-0.8<V>
L51	S0-114-380-070		IFT,COIL ANT<LH>
L51	S0-091-310-070		IFT,PA7BRS-A9131CCG<EEZ,K,EZ,V>
L51	S0-091-330-070		IFT,PA119ANS-A9133G0<HE>
L52	S0-091-310-070		IFT,PA7BRS-A9131CCG<HE,LH>
L52	S0-091-320-070		IFT PA7BRS-A9132CCG<EEZ,K,EZ,V>
L53	S0-114-380-070		IFT,COIL ANT<HE>
L54	S0-033-190-070		IFT,COIL ANT<EEZ,K,EZ>
L54	S0-824-800-070		IFT,126ZNS-8<V>
L54	S0-114-380-070		IFT,COIL ANT<EEZ,K,EZ,V>
L54	S0-624-000-070		IFT,MH-826240S-00<HE>
L61	S0-100-262-000		INDUCTOR,1UH<V>
L151	87-003-143-010		INDUCTOR,4.7UH
L152	S0-104-760-000		INDUCTOR,47UH
L191	S0-091-340-070		IFT,A7BRCS-A9134
L192	S0-100-140-000		INDUCTOR,100UH
L301	S0-091-300-070		IFT,126ANS-A9130YWD
L601	S0-100-262-000		INDUCTOR,1UH
L602	S0-100-262-000		INDUCTOR,1UH
L603	S0-100-262-000		INDUCTOR,1UH
L604	S0-100-262-000		INDUCTOR,1UH
MFT101	S0-006-600-070		I.F.T.PCFMT-066
SFR101	S2-030-650-000		SFR,20K
SFR102	S1-030-850-000		SFR,10K
SFR751	S2-020-650-000		SFR,2K
SW301	S0-062-200-010		SW,RECORDING
VC1	87-002-730-080		CAP,VARI SVC203SPA
VC2	87-002-730-080		CAP,VARI SVC203SPA
VC3	87-002-730-080		CAP,VARI SVC203SPA
VC51	87-020-790-080		CAP,VARI KV1260TS2<EXCEPT LH>
VC52	87-020-790-080		CAP,VARI KV1260TS2
X101	S5-520-045-700		CER,RESO KBR-457HS15
X151	S6-072-000-000		X'TAL 7.2 MHz

FRONT C.B

C7	87-010-400-010		CAP,E 0.47-50V
C8	87-010-401-010		CAP,E 1-50V
C10	87-010-498-010		CAP,E 10-16V
C12	87-010-079-010		CAP,E 100-6.3V
C18	87-010-908-010		CAP,E 220-10V
C98	87-010-555-010		CAP,E 100-10V
C404	87-010-401-010		CAP,E 1-50V
C405	87-010-545-010		CAP,E 0.22-50V
C407	87-010-401-010		CAP,E 1-50V
C408	87-010-380-010		CAP,E 47-16V
C409	87-010-555-010		CAP,E 100-10V<EXCEPT HE>
C409	87-010-908-010		CAP,E 220-10V<HE>
C410	87-010-415-010		CAP,E 10-50V
C411	87-010-400-010		CAP,E 0.47-50V<HE>
C413	87-010-415-010		CAP,E 10-50V
C435	87-016-130-080		CAP,E 47-25V<HE>
C436	87-010-546-080		CAP,E 0.33-50V<HE>
C437	87-010-546-080		CAP,E 0.33-50V<HE>
C441	87-010-401-010		CAP,E 1-50V<HE>
C443	87-010-555-010		CAP,E 100-10V<HE>
C980	87-016-130-080		CAP,E 47-25V
D4	87-002-285-010		LED,5-5(RED)
D5	87-017-755-010		LED,SLR-342VC
D6	87-017-755-010		LED,SLR-342VC
D7	87-017-755-010		LED,SLR-342VC
D8	87-017-755-010		LED,SLR-342VC
D9	87-002-285-010		LED,5-5(RED)
D10	87-002-285-010		LED,5-5(RED)
D11	87-002-285-010		LED,5-5(RED)
D21	87-017-719-010		LED GL3EG8 3MM(GRN)
D22	87-017-719-010		LED GL3EG8 3MM(GRN)
D23	87-017-719-010		LED GL3EG8 3MM(GRN)
D24	87-017-719-010		LED GL3EG8 3MM(GRN)
D25	87-017-719-010		LED GL3EG8 3MM(GRN)
D26	87-017-719-010		LED GL3EG8 3MM(GRN)
D27	87-017-719-010		LED GL3EG8 3MM(GRN)
D28	87-017-719-010		LED GL3EG8 3MM(GRN)
D29	87-017-719-010		LED GL3EG8 3MM(GRN)
D30	87-017-719-010		LED GL3EG8 3MM(GRN)
D33	87-017-719-010		LED GL3EG8 3MM(GRN)
D34	87-017-719-010		LED GL3EG8 3MM(GRN)
D35	87-017-719-010		LED GL3EG8 3MM(GRN)
D36	87-017-719-010		LED GL3EG8 3MM(GRN)
J401	S0-515-460-000		JACK,MIC 3.5MM
L1	S0-100-160-000		INDUCTOR,10UH
L10	87-005-647-080		COIL,10UH
L11	87-005-647-080		COIL,10UH
L401	87-003-097-010		COIL,1UH
L431	87-005-370-080		COIL,680UH<HE>
LCD1	S1-120-040-350		LCD,AIW4035T-30P
SW1	SK-HV9-010-000		SW,TACT
SW2	SK-HV9-010-000		SW,TACT
SW3	SK-HV9-010-000		SW,TACT
SW4	SK-HV9-010-000		SW,TACT
SW5	SK-HV9-010-000		SW,TACT
SW7	SK-HV9-010-000		SW,TACT
SW8	SK-HV9-010-000		SW,TACT
SW9	SK-HV9-010-000		SW,TACT
SW10	SK-HV9-010-000		SW,TACT
SW11	SK-HV9-010-000		SW,TACT
SW12	SK-HV9-010-000		SW,TACT
SW13	SK-HV9-010-000		SW,TACT
SW14	SK-HV9-010-000		SW,TACT
SW15	SK-HV9-010-000		SW,TACT
SW16	SK-HV9-010-000		SW,TACT
SW17	SK-HV9-010-000		SW,TACT
SW18	SK-HV9-010-000		SW,TACT
SW19	SK-HV9-010-000		SW,TACT
SW20	SK-HV9-010-000		SW,TACT
SW21	SK-HV9-010-000		SW,TACT
VR401	S1-030-120-010		RES,VARIABLE 10KA
VR431	S0-301-030-120		RES,VARIABLE 10KB<HE>
X1	S3-327-680-000		X,TAL 32.768KHZ
X2	87-030-214-080		RESONATOR KBR-6

CD C.B

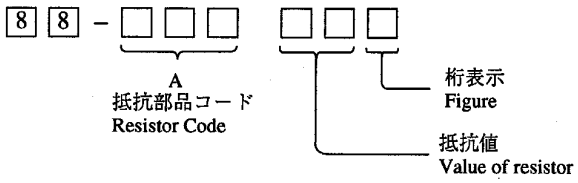
C4	87-010-380-010		CAP,E 47-16V
C5	87-010-380-010		CAP,E 47-16V
C6	87-010-555-010		CAP,E 100-10V
C9	87-010-415-010		CAP,E 10-50V
C10	87-010-380-010		CAP,E 47-16V
C13	87-010-415-010		CAP,E 10-50V
C14	87-010-444-080		CAP,E 22-50V
C15	87-010-403-010		CAP,E 3.3-50V
C16	87-010-401-010		CAP,E 1-50V
C22	87-010-265-010		CAP,E 33-16V
C26	87-010-555-010		CAP,E 100-10V
C35	87-010-555-010		CAP,E 100-10V
C38	87-015-698-040		CAP,E 4.7-50V
C44	87-010-908-010		CAP,E 220-10V
C48	87-010-380-010		CAP,E 47-16V

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C49	87-010-555-010		CAP,E 100-10V
C50	87-010-380-010		CAP,E 47-16V
C70	87-010-045-810		CAP,E 100-25V
C85	87-010-401-010		CAP,E 1-50V
C101	87-015-696-080		CAP,E 2.2-50V
C102	87-015-696-080		CAP,E 2.2-50V
C124	87-010-555-010		CAP,E 100-10V
C126	87-010-221-810		CAP,E 470-10V
C132	87-010-221-810		CAP,E 470-10V
L1	S0-100-160-000		INDUCTOR,10UH
SFR1	S1-030-850-000		SFR,10K
SFR2	87-024-176-080		SFR,100K
SFR3	87-024-176-080		SFR,100K
SFR4	87-024-176-080		SFR,100K
X1	S0-016-930-000		CER,RESO
SUB C.B			
C143	87-010-555-010		CAP,E 100-10V

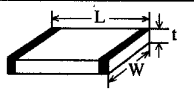
REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
POWER C.B			
⚠	S7-900-000-000		FUSE HOLDER
⚠F701	87-035-460-010		FUSE,6.3A/250V
DRIVE C.B			
M1	87-045-358-019		MOT,RF-310TA 43
M2	87-045-356-019		MOT,RF-310TA 30
SW1	87-036-340-019		SW,LEAF LSA-1121
MOTOR CD C.B			
M1	87-045-305-019		MOTOR, RF-500TB
SW1	87-036-110-019		SW,PUSH SPPB 62
SW2	87-036-110-019		SW,PUSH SPPB 62

○ 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) 外形／Form	L	W	t	抵抗コード：A Resistor Code: A
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

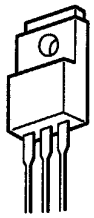
TRANSISTOR ILLUSTRATION

ECB

2SA1015
2SA1296
2SA1318
2SC1815
2SC1923
2SC2001
2SC2240

ECB

2SA933S
2SC1740S
2SD1468S
DTA114TS
DTA143ES
DTA144TS
DTC114TS
DTC124XS
DTC143ES
DTC343TK



BCE

2SB1370

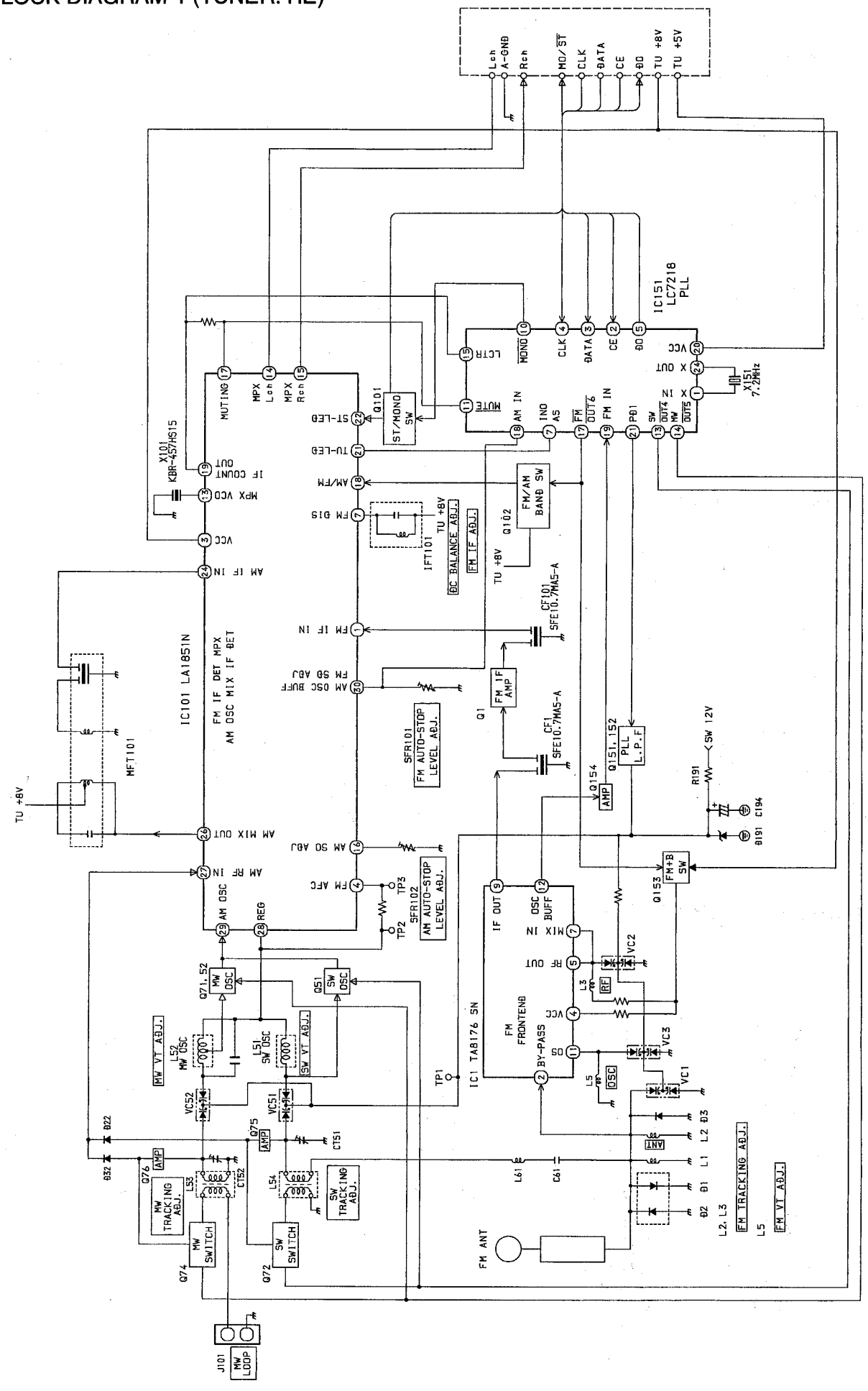
DSG

2SK161

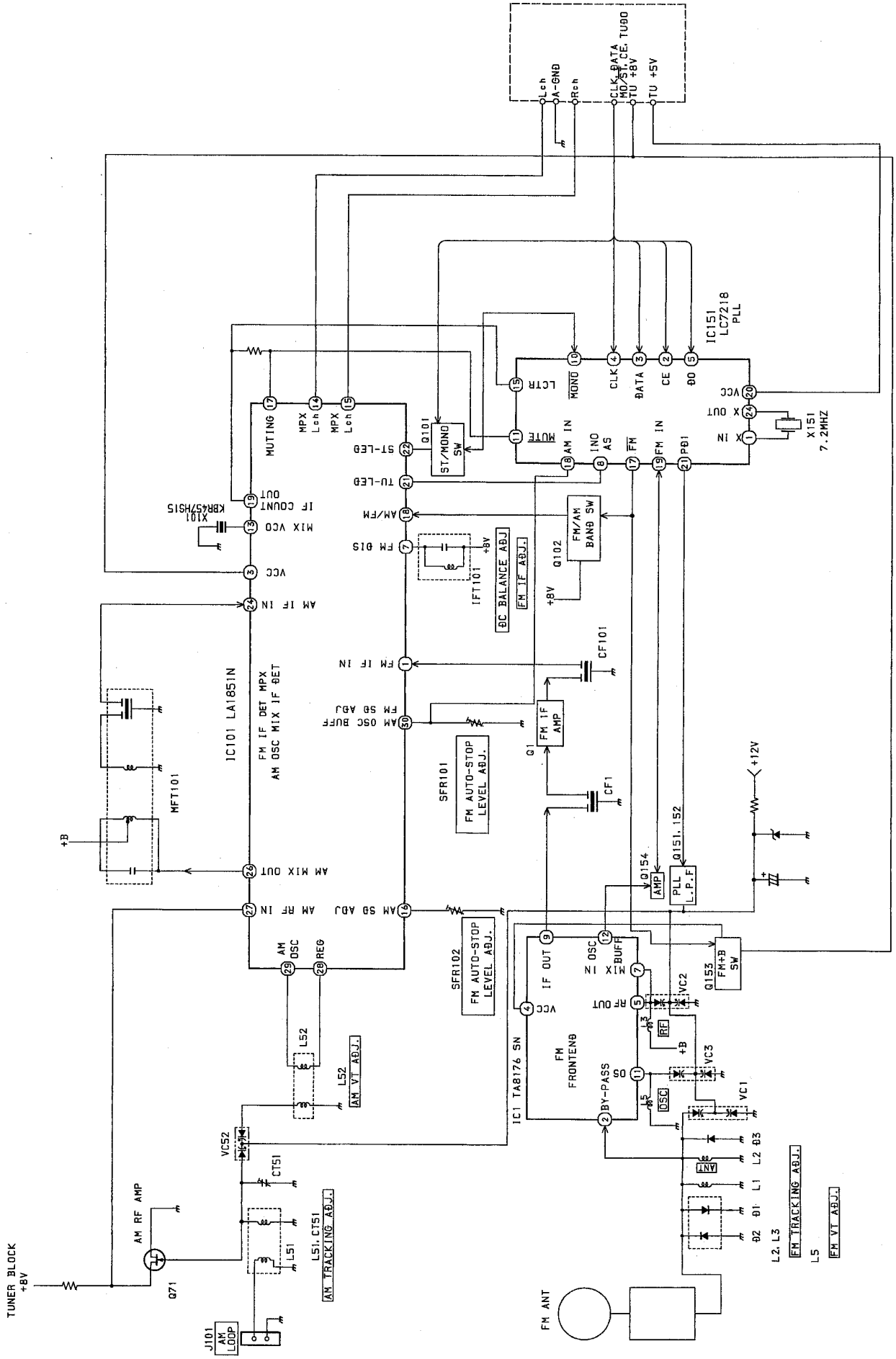
SGD

2SK246

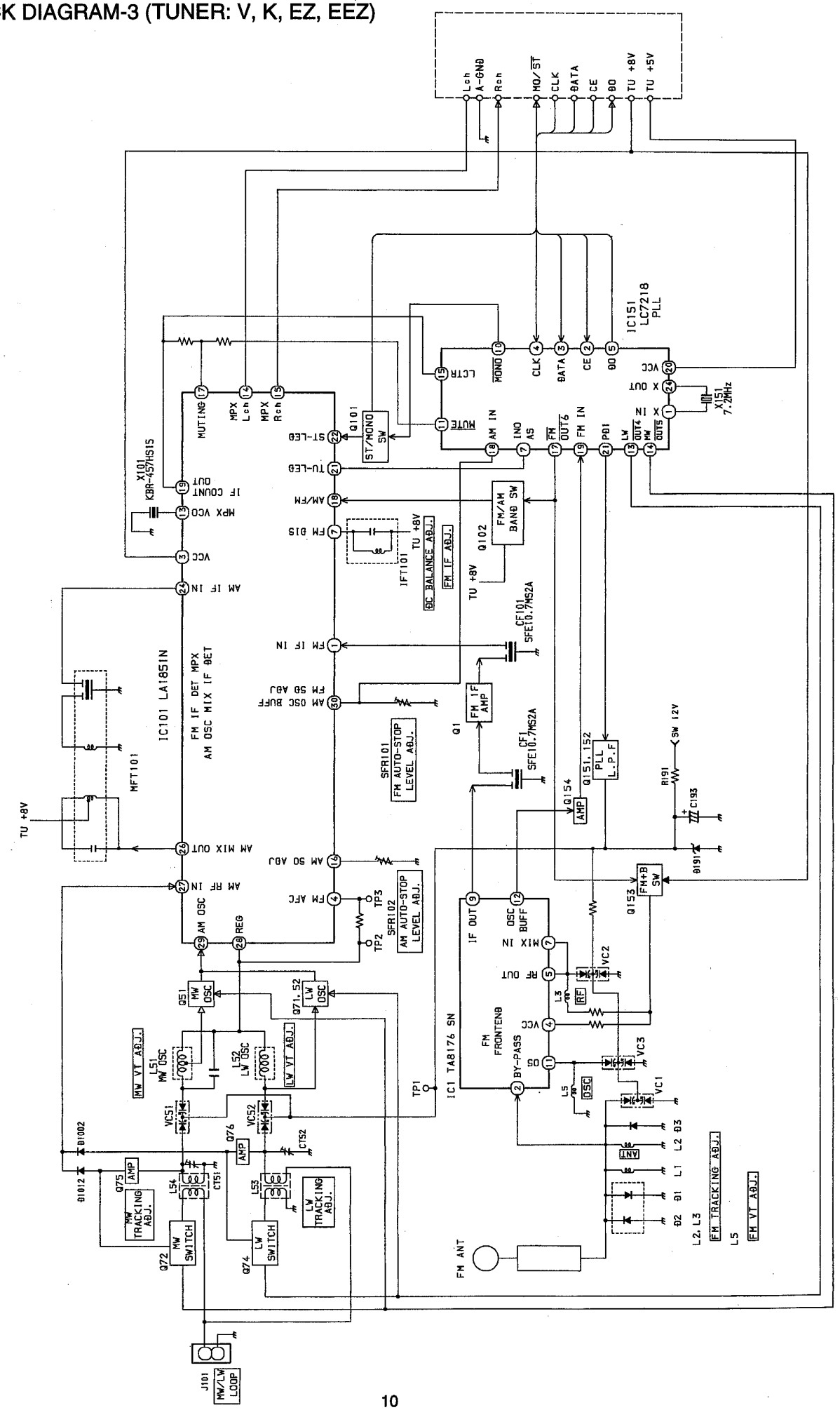
BLOCK DIAGRAM-1 (TUNER: HE)



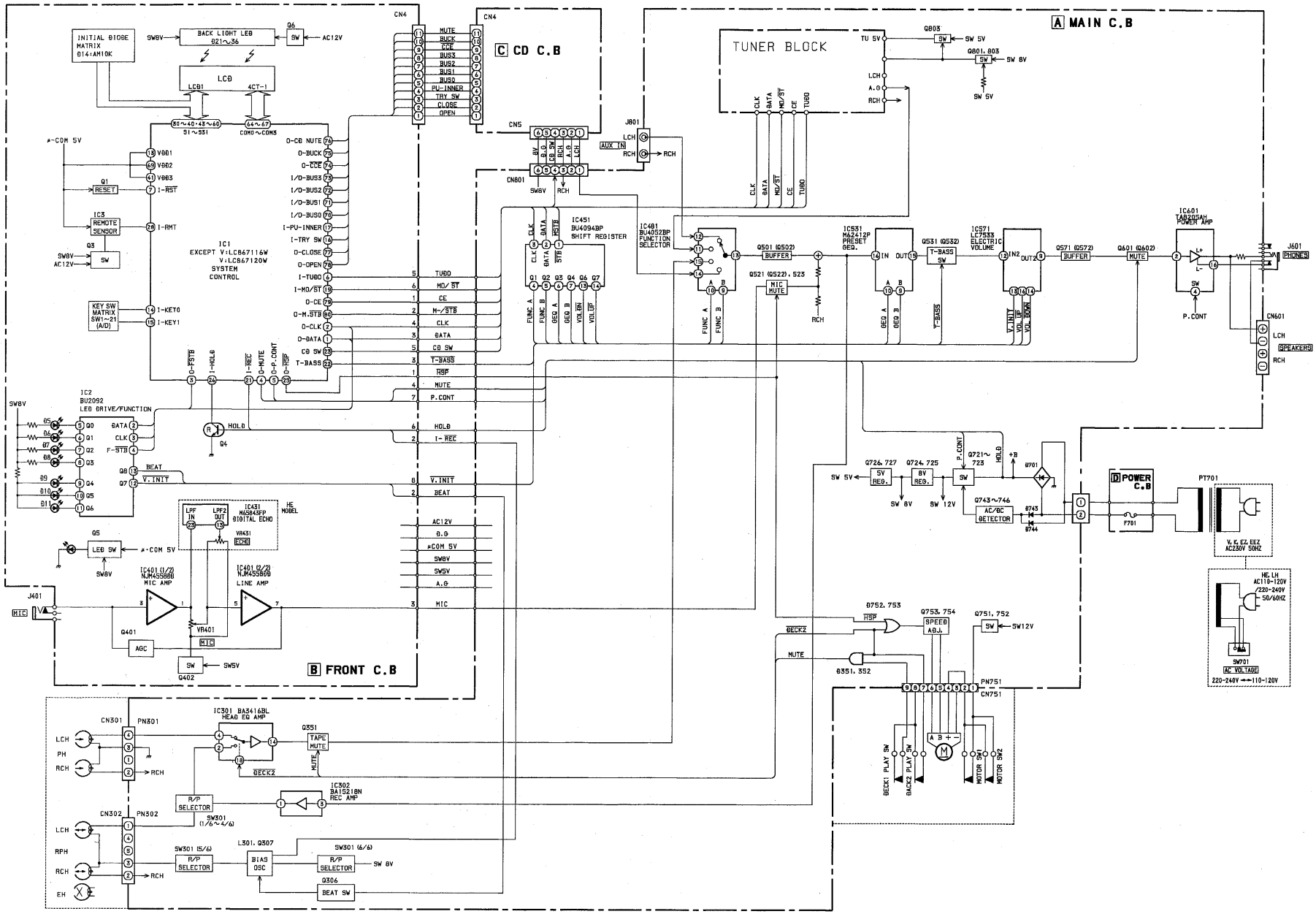
BLOCK DIAGRAM-2 (TUNER: LH)



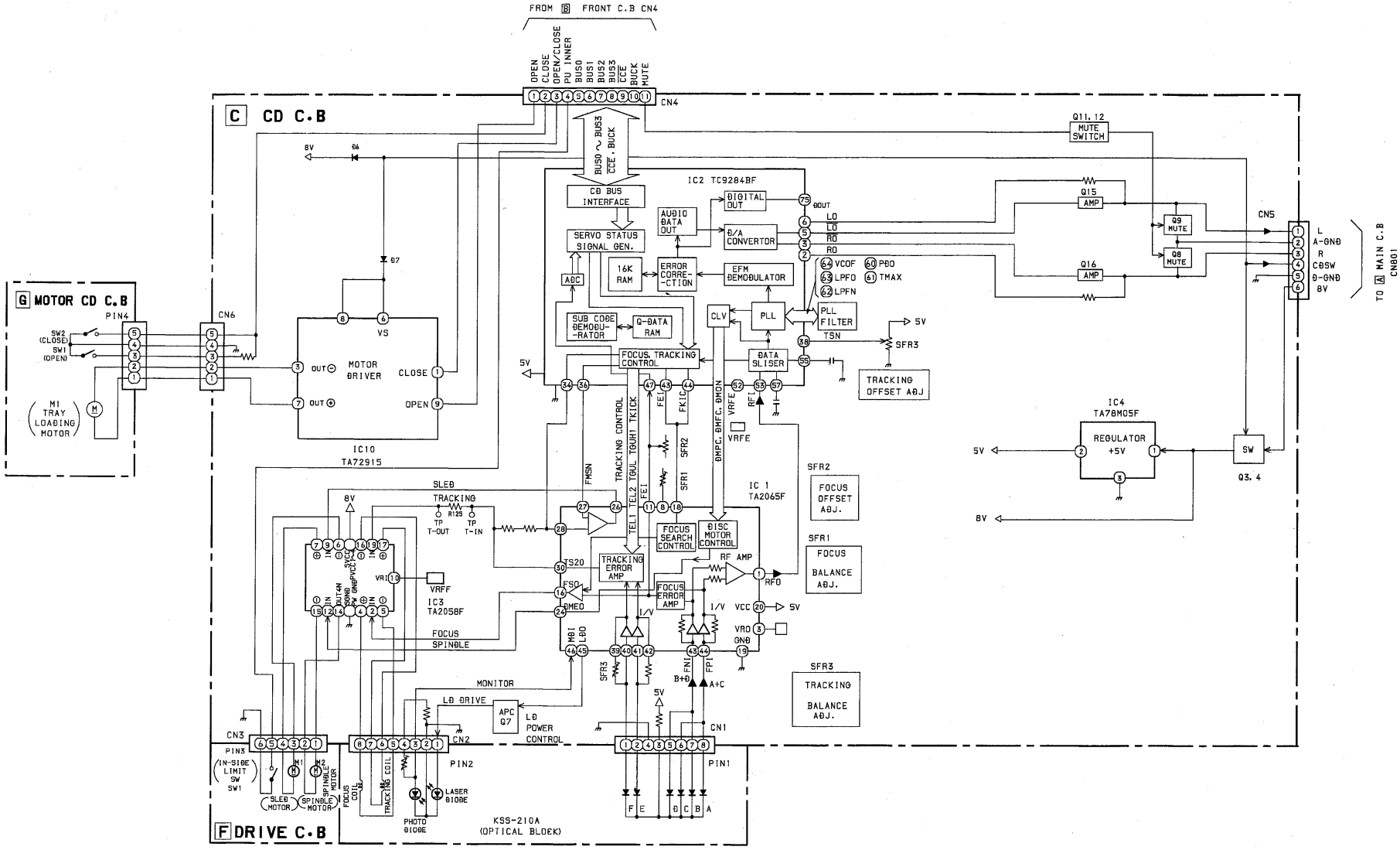
BLOCK DIAGRAM-3 (TUNER: V, K, EZ, EEZ)

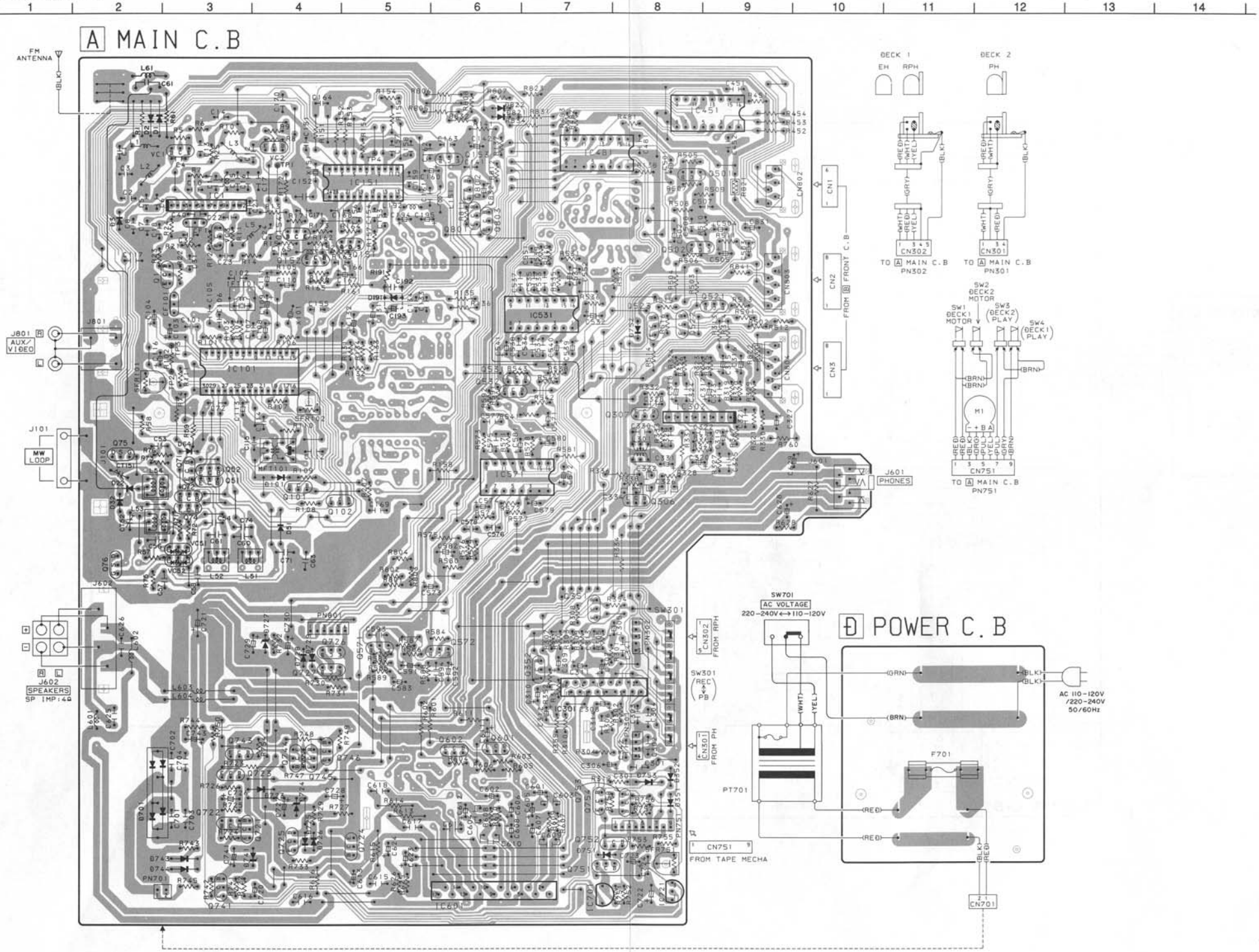


BLOCK DIAGRAM-4 (MAIN)

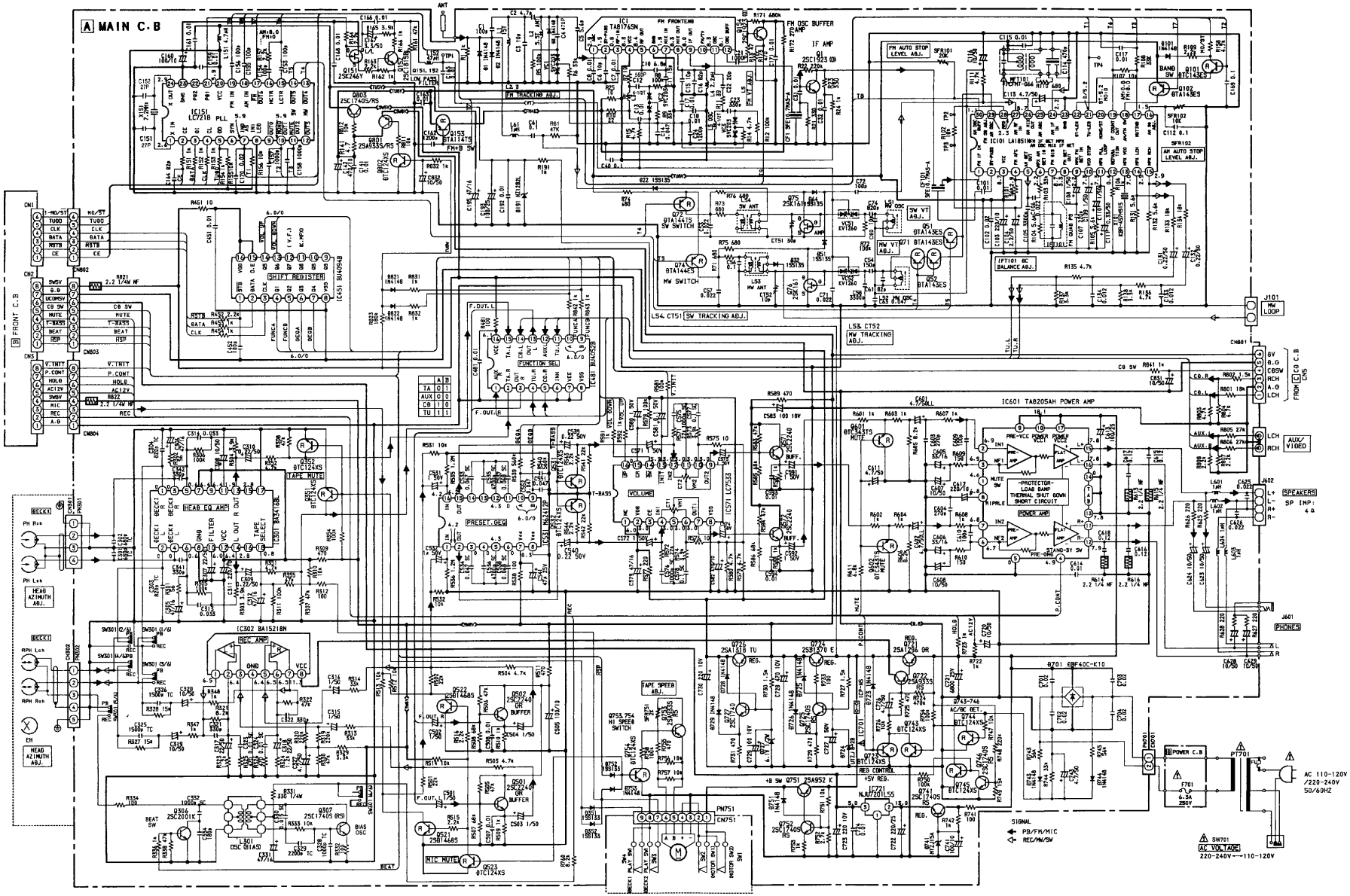


BLOCK DIAGRAM-5 (CD)

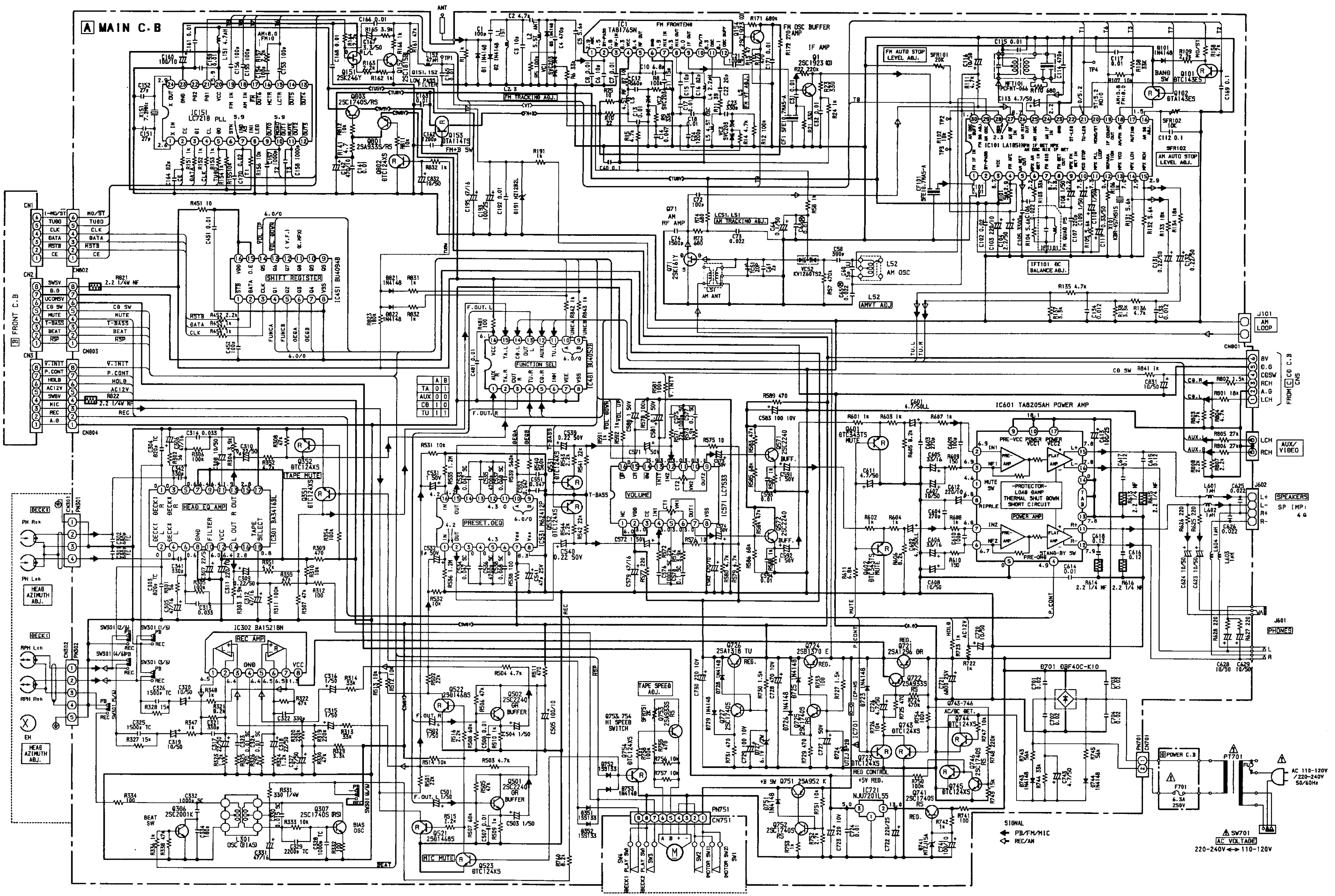


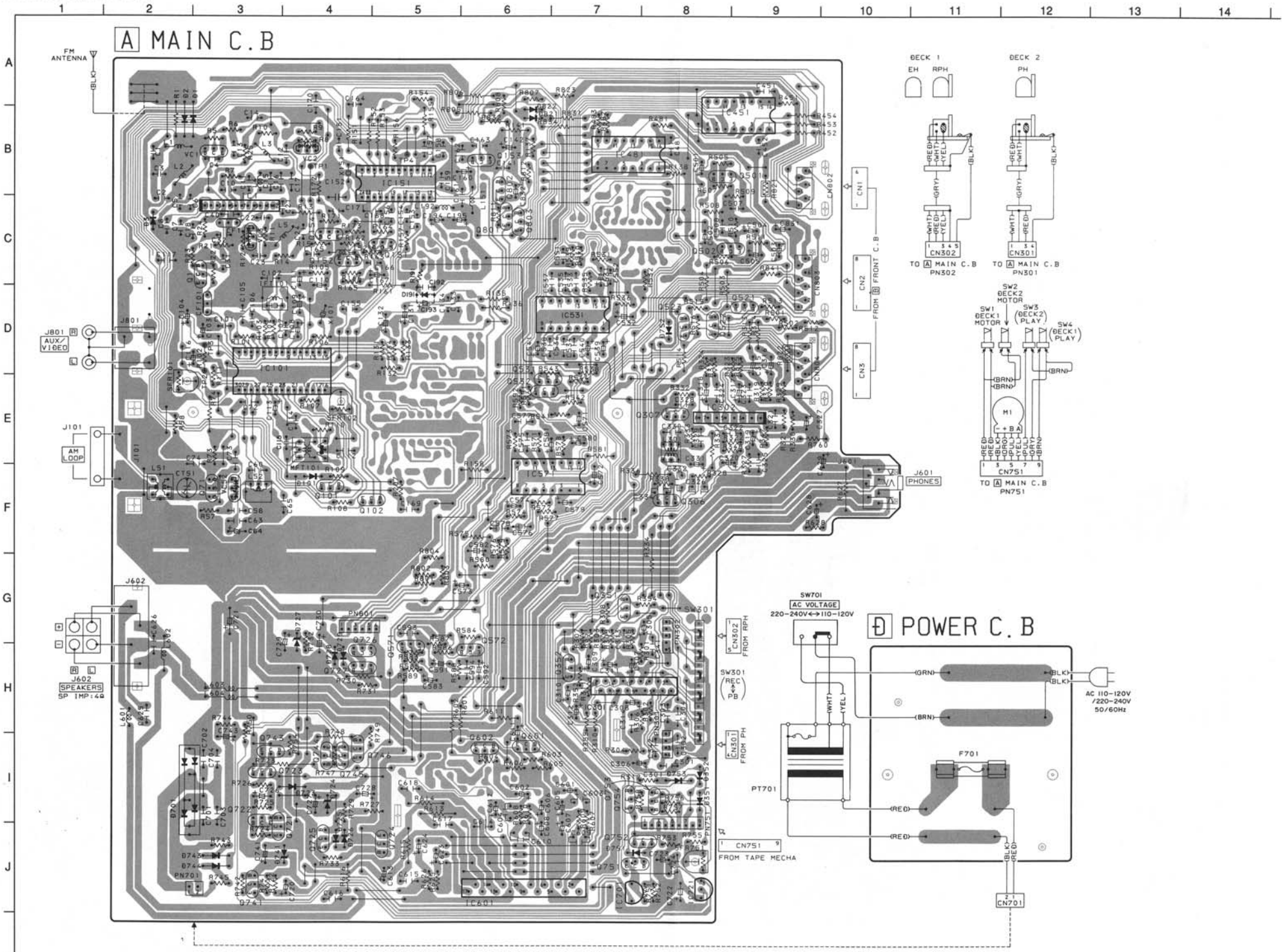

A MAIN C.B
FM ANTENNA
J801 AUX/VIDEO
J101 MW LOOP
J602 SPEAKERS SP IMP:4Ω
J601 PHONES
IC151
IC101
IC531
IC5
IC601
CN1
CN2
CN3
FROM B FRONT C.B
DECK 1
EH
RPH
DECK 2
PH
CN302
CN301
TO A MAIN C.B PN302
TO A MAIN C.B PN301
SW1 DECK1 MOTOR
SW2 DECK2 MOTOR
SW3 (DECK2) PLAY
SW4 (DECK1) PLAY
M1
CN751
TO A MAIN C.B PN751
SW701 AC VOLTAGE 220-240V↔110-120V
D POWER C.B
CN302 FROM RPH
SW301 (REC) (PB)
CN301 FROM PH
PT701
F701
CN751 FROM TAPE MECHA
CN701
AC 110-120V /220-240V 50/60Hz

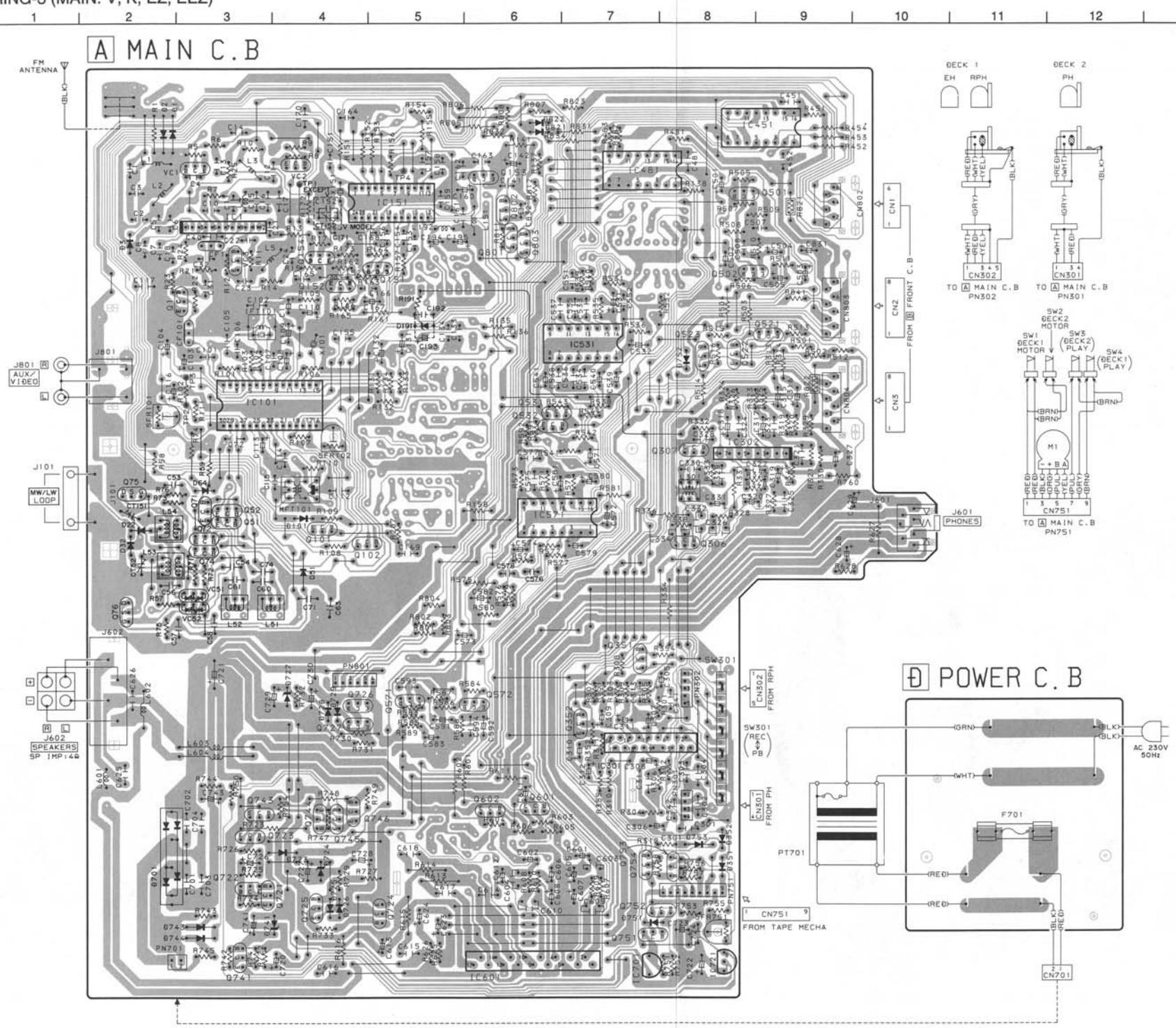
SCHEMATIC DIAGRAM-1 (MAIN: HE)



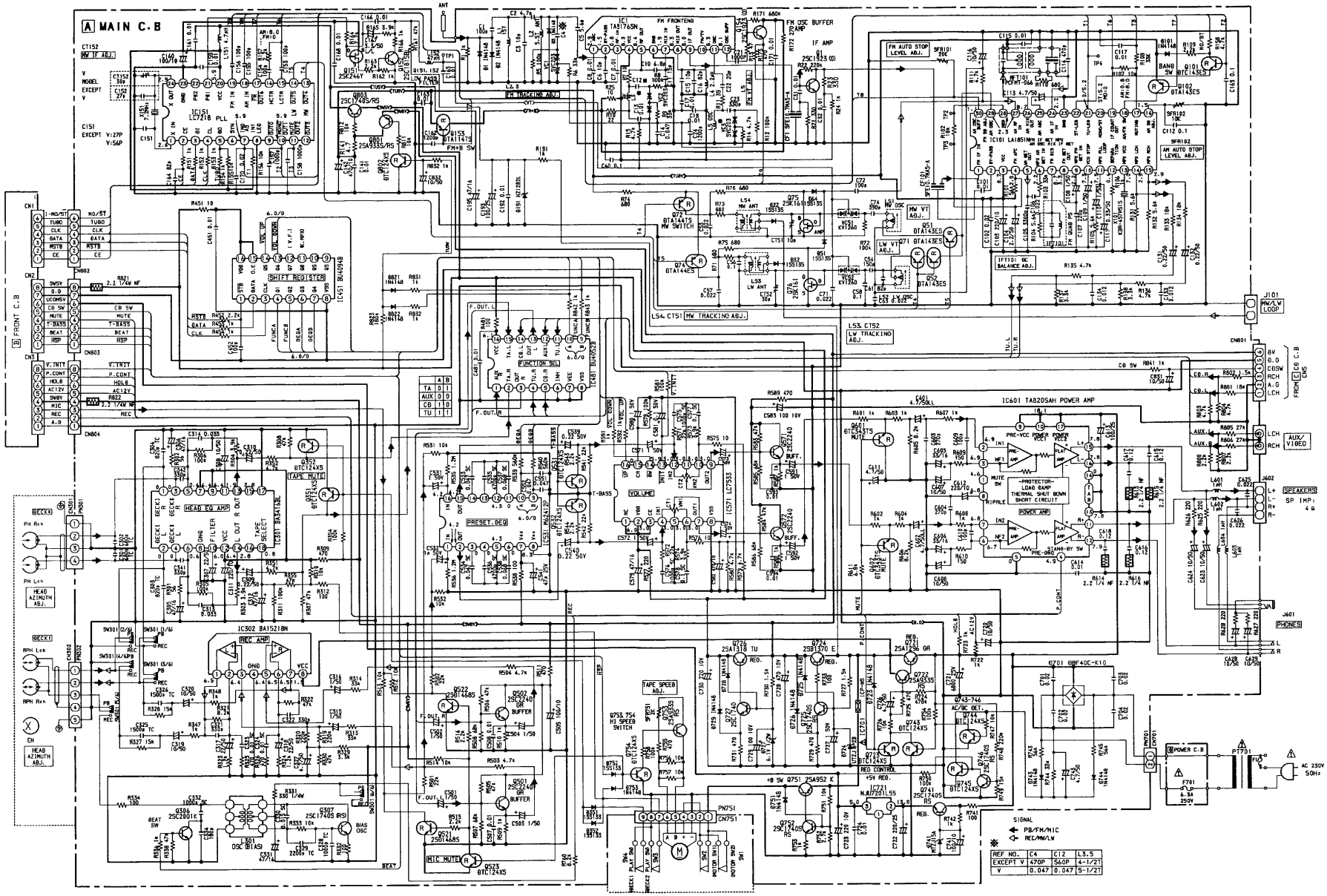
SCHEMATIC DIAGRAM-2 (MAIN: LH)



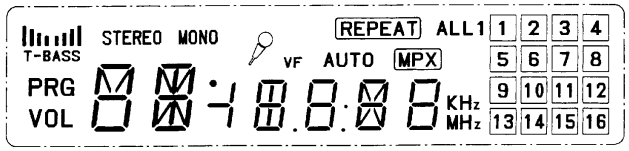

A MAIN C.B
FM ANTENNA
J801 AUX/VIDEO
J101 AM LOOP
J602 SPEAKERS 5P IMP:4Ω
J601 PHONES
CN1
CN2
CN3
FROM B FRONT C.B
DECK 1
EH
RPH
DECK 2
PH
CN302
CN301
TO A MAIN C.B PN302
TO A MAIN C.B PN301
SW2 DECK2 MOTOR
SW1 DECK1 MOTOR
SW3 (DECK2) PLAY
SW4 (DECK1) PLAY
M1
CN751
TO A MAIN C.B PN751
SW701 AC VOLTAGE 220-240V↔110-120V
Đ POWER C.B
AC 110-120V /220-240V 50/60Hz
F701
PT701
CN701
SW301 (REC ↔ PB)
FROM RPH
FROM PH
FROM TAPE MECHA
IC101
IC151
IC531
IC5
IC601

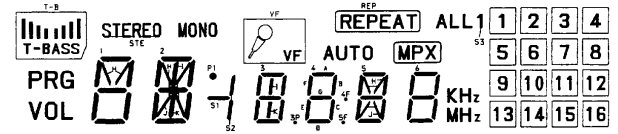

A MAIN C.B
FM ANTENNA
J801
AUX/ VIDEO
J101
MW/LW LOOP
J602
SPEAKERS SP IMP:4Ω
CN1
CN2
CN3
FROM B FRONT C.B
J601
PHONES
DECK 1
EH
RPH
DECK 2
PH
CN302
TO A MAIN C.B PN302
CN301
TO A MAIN C.B PN301
SW2 DECK2 MOTOR
SW1 DECK1 MOTOR
SW3 (DECK2 PLAY)
SW4 (DECK1 PLAY)
CN751
TO A MAIN C.B PN751
D POWER C.B
AC 230V 50Hz
F701
PT701
SW301 (REC PB)
FROM RPH
FROM PH
CN751
FROM TAPE MECHA
CN701

SCHEMATIC DIAGRAM-3 (MAIN: V, K, EZ, EEZ)



LCD DISPLAY

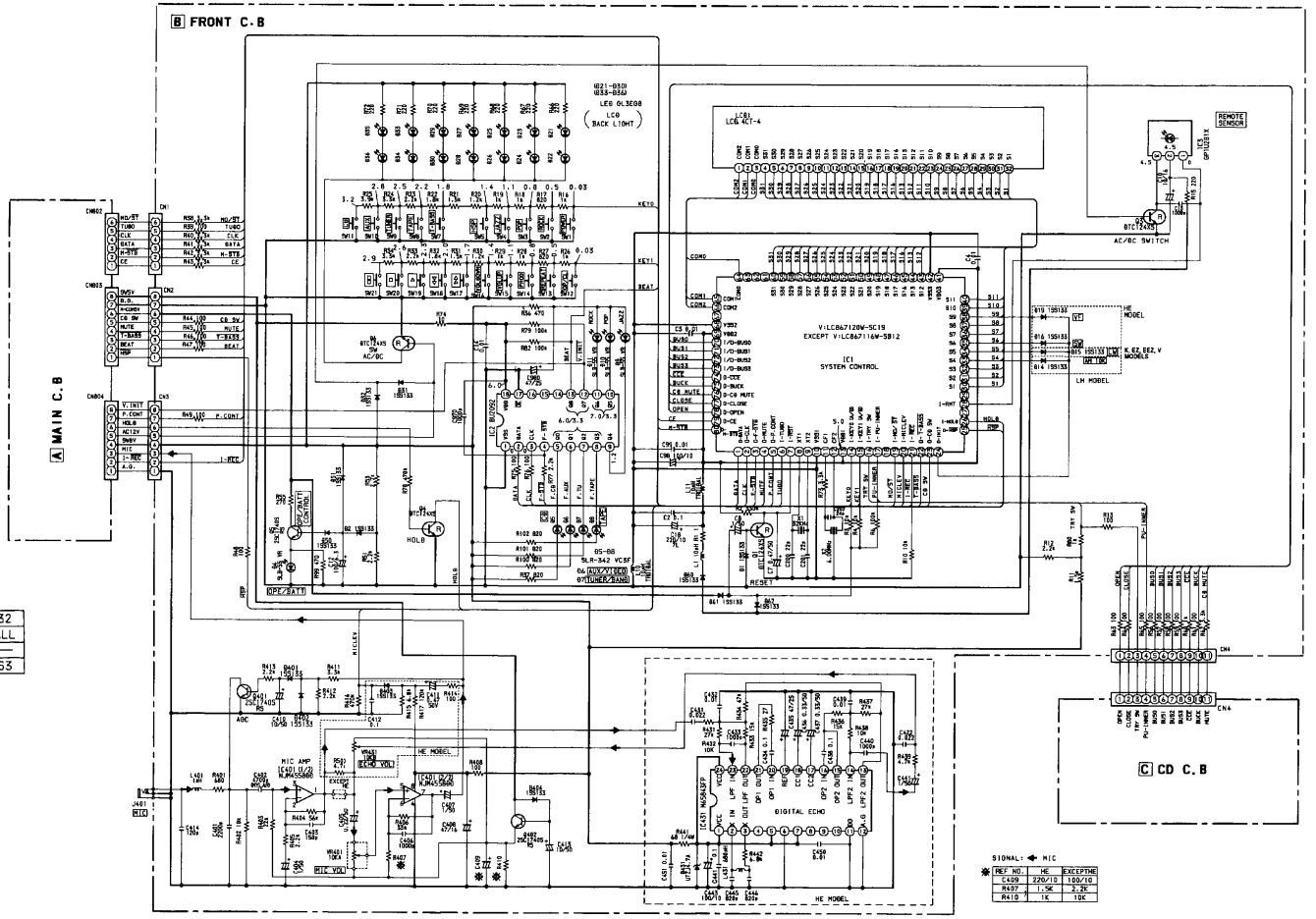


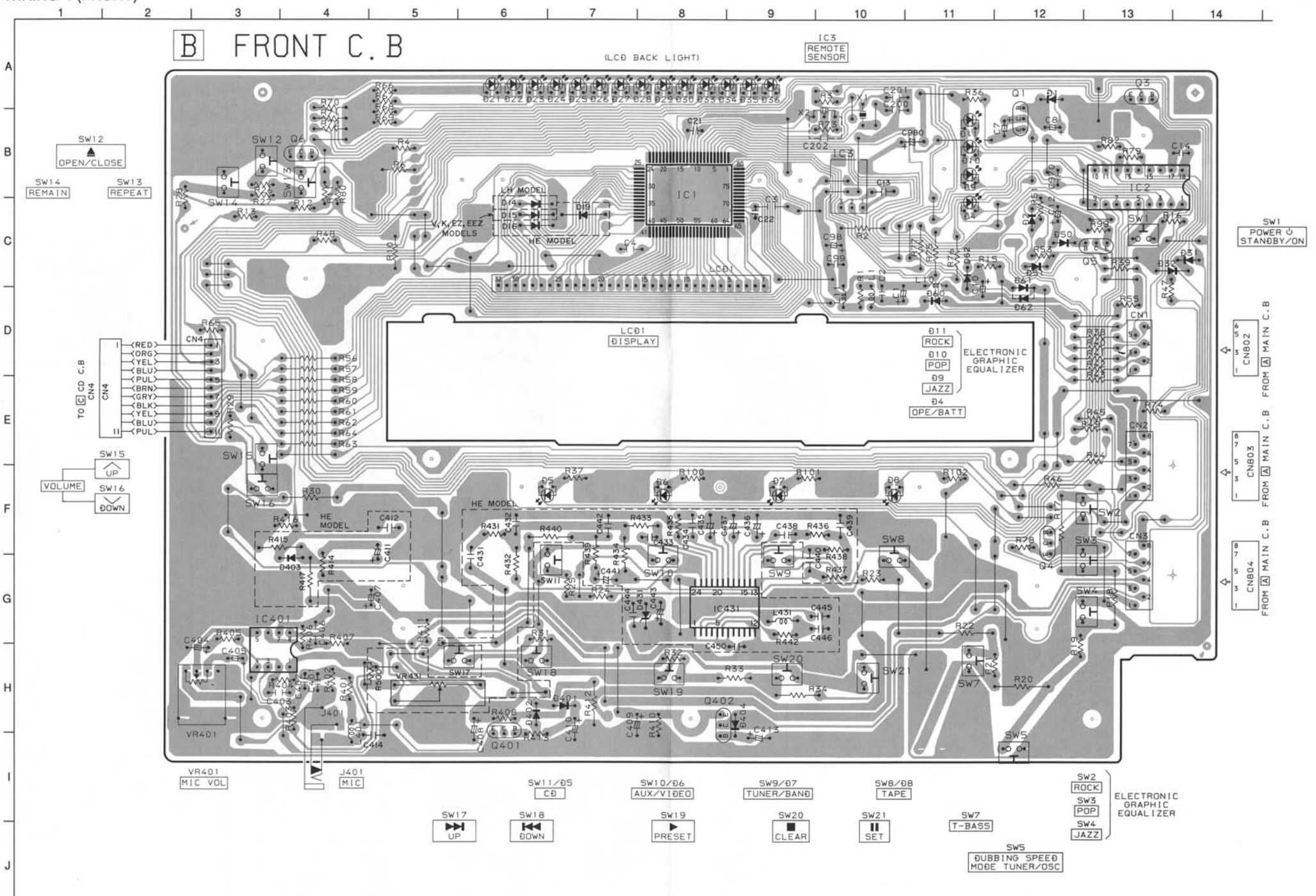


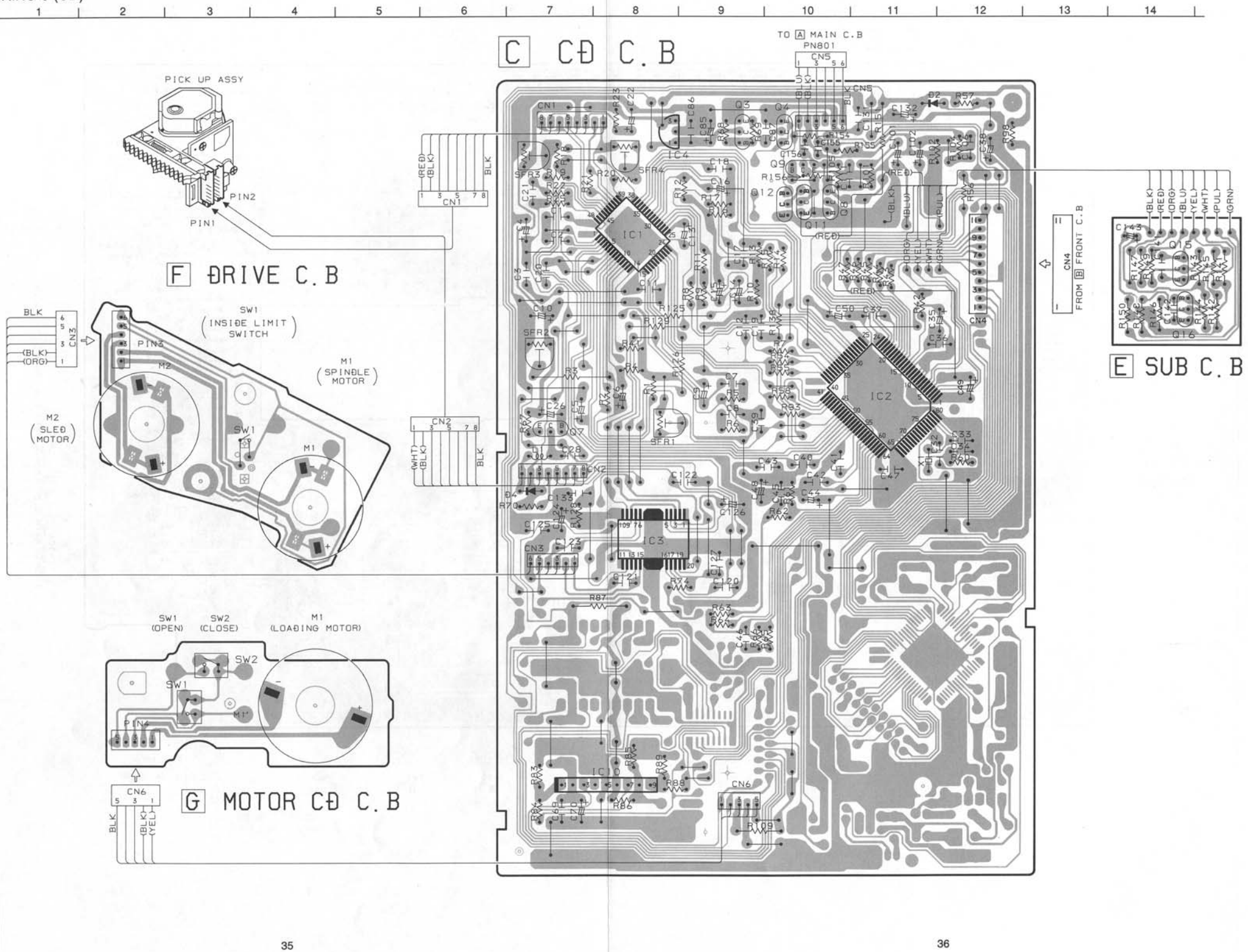
NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COM1	COM1	—	—	TOB	1A	1H	—	21	2G	2K	2B	MONO	REP	3F	3A
COM2	—	COM2	—	PRG	1F	1G	1B	2A	2H	2J	2C	P1	VF	3G	31K
COM3	—	—	COM3	VOL	1B	10	1C	STE	2F	2E	20	S1	S2	3E	30

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
3B	4F	4B	2A	AUTO	5A	5B	6F	6B	6A	5	6	7	8	4	MPX	ALL
3C	4G	4C	4P	5F	5HJ	5C	6G	6C	KHZ	9	10	11	12	3	—	—
3P	4E	40	5P	5E	5G	50	MHZ	13	MHZ	13	14	15	16	2	1	S3

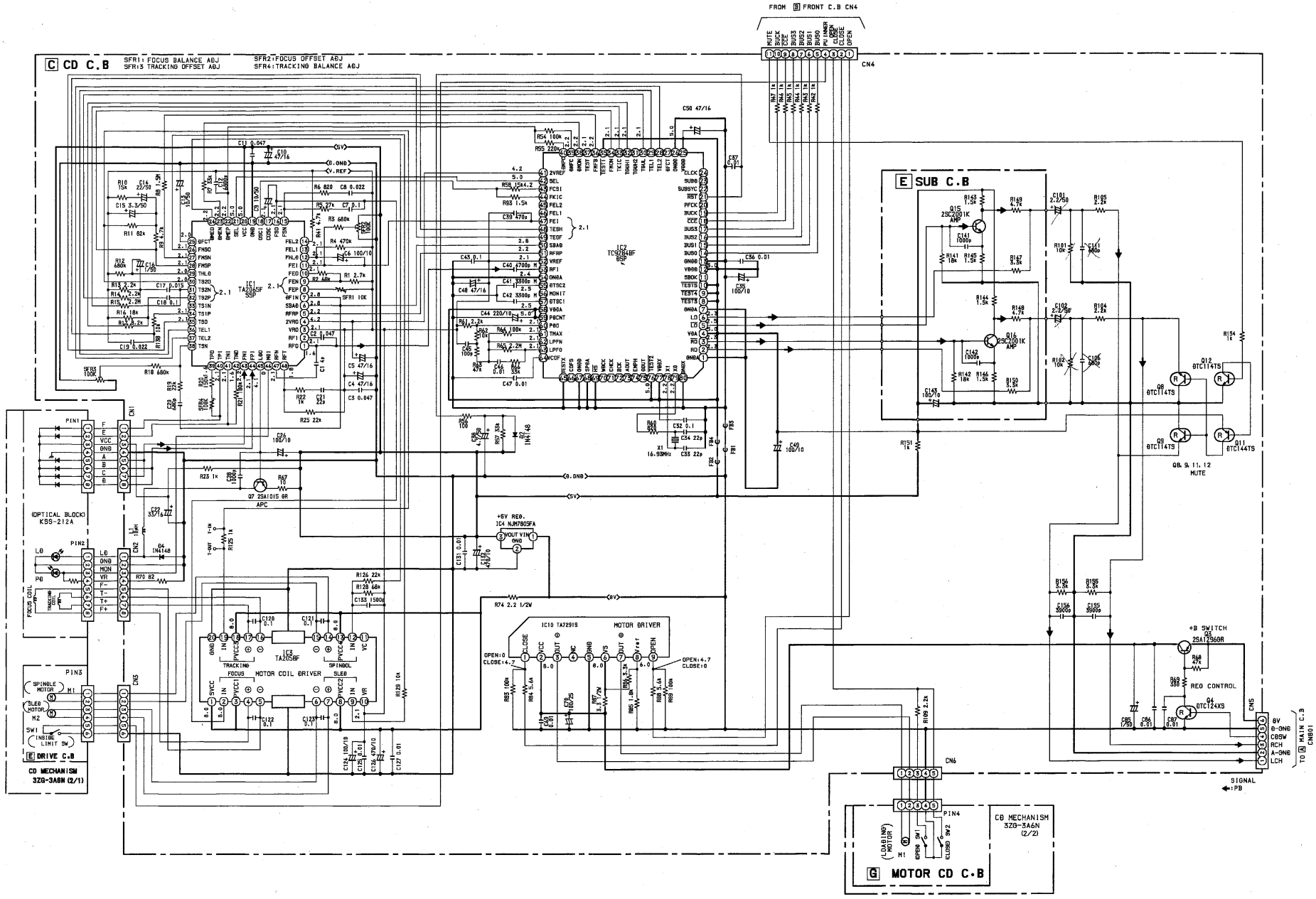
SCHEMATIC DIAGRAM-4 (FRONT)




B FRONT C.B
(LCD BACK LIGHT)
IC3 REMOTE SENSOR
SW12 OPEN/CLOSE
SW14 REMAIN
SW13 REPEAT
LH MODEL
HE MODEL
V,K,EZ,EEZ MODELS
IC1
IC2
IC4
LCD1
LCD1 DISPLAY
D11 ROCK
D10 POP
D9 JAZZ
ELECTRONIC GRAPHIC EQUALIZER
D4 OPE/BATT
SW1 POWER ⏻ STANDBY/ON
TO C CD C.B CN4
CN4
(RED)
(ORG)
(YEL)
(BLU)
(PUL)
(BRN)
(GRY)
(BLK)
(YEL)
(BLU)
(PUL)
SW15 UP
VOLUME
SW16 DOWN
CN1
CN2
CN3
CN802 FROM A MAIN C.B
CN803 FROM A MAIN C.B
CN804 FROM A MAIN C.B
IC401
IC431
VR401
VR431
J401
Q401
Q402
SW17
SW18
SW19
SW20
SW21
SW7
SW8
SW9
SW10
SW11
SW5
VR401 MIC VOL
J401 MIC
SW11/D5 CD
SW10/D6 AUX/VIDEO
SW9/D7 TUNER/BAND
SW8/D8 TAPE
SW17 UP
SW18 DOWN
SW19 PRESET
SW20 CLEAR
SW21 SET
SW7 T-BASS
SW5 DUBBING SPEED MODE TUNER/OSC
SW2 ROCK
SW3 POP
SW4 JAZZ
ELECTRONIC GRAPHIC EQUALIZER

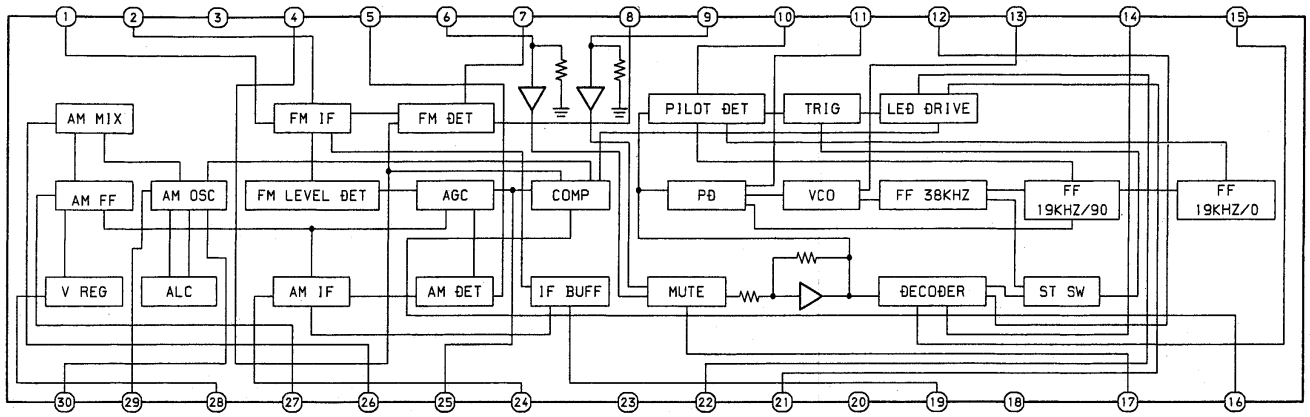

C CÐ C.B
TO A MAIN C.B
PN801
CN5
PICK UP ASSY
PIN2
PIN1
F ÐRIVE C.B
BLK
CN3
(BLK)
(ORG)
SW1
(INSIÐE LIMIT
SWITCH)
PIN3
M2
M1
(SPINÐLE
MOTOR)
M2
(SLEÐ
MOTOR)
SW1
M1
CN1
(RED)
(BLK)
BLK
CN2
(WHT)
(BLK)
BLK
CN4
FROM B FRONT C.B
E SUB C.B
SW1
(OPEN)
SW2
(CLOSE)
M1
(LOAÐING MOTOR)
SW2
SW1
M1
PIN4
CN6
BLK
(BLK)
(YEL)
G MOTOR CÐ C.B

SCHEMATIC DIAGRAM-5 (CD)

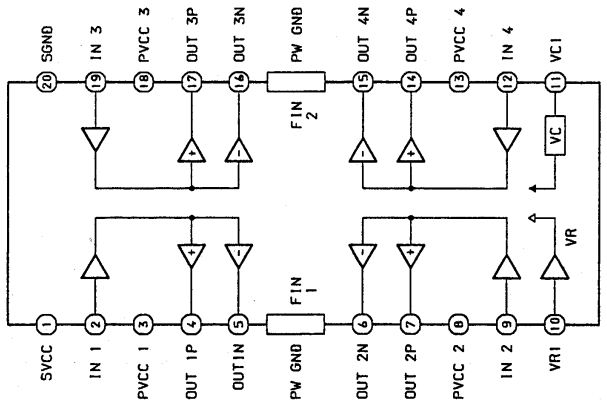


IC BLOCK DIAGRAM

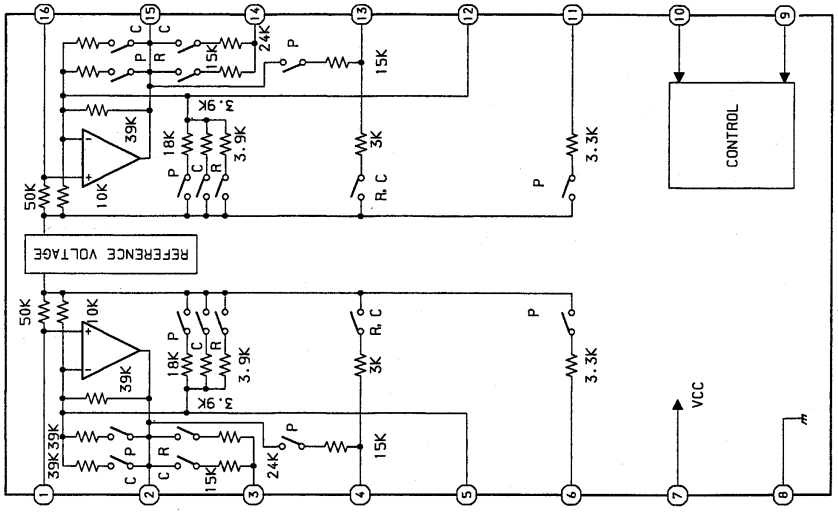
IC, LA1851N



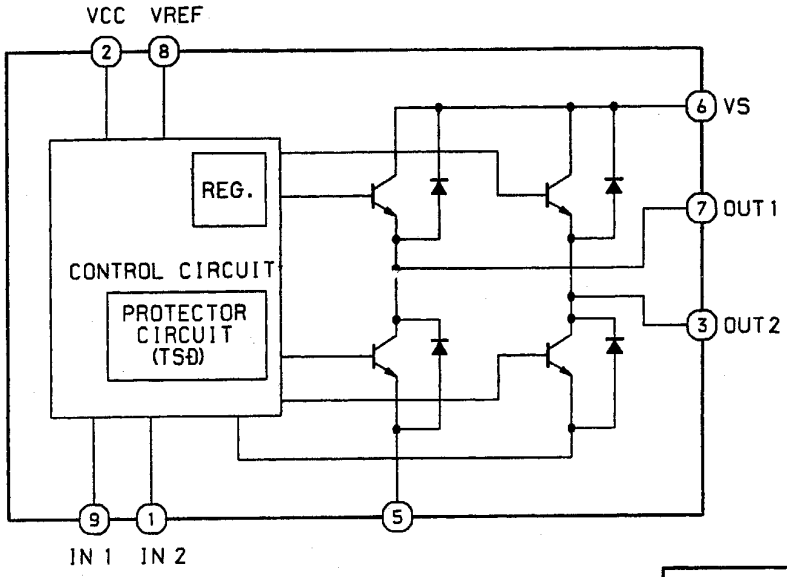
IC, TA2058F



IC, M62412P



IC, TA7291

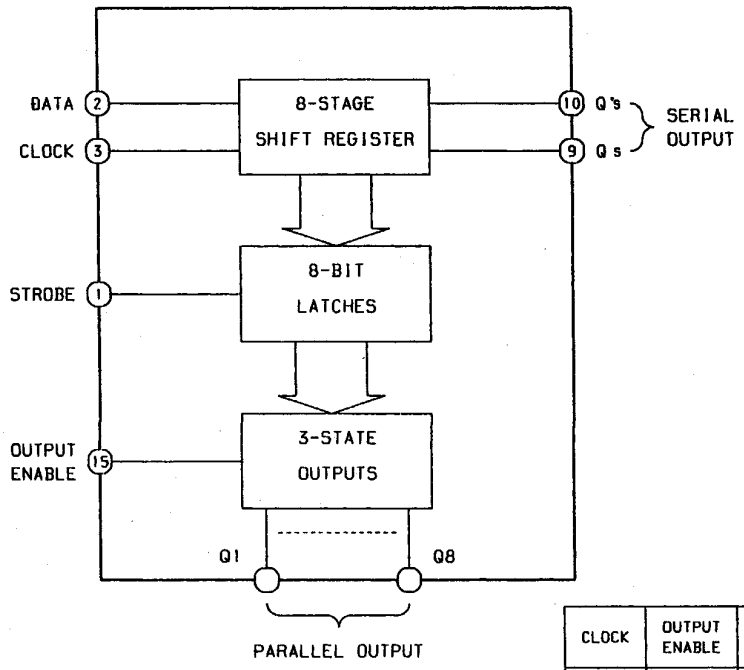


TRUTH TABLE

INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW
0	1	L	H	CCW
1	1	L	L	BRAKE

∞ : HI IMPEDANCE
NOTE : INPUT "H" ACTIVE

IC, BU4094B

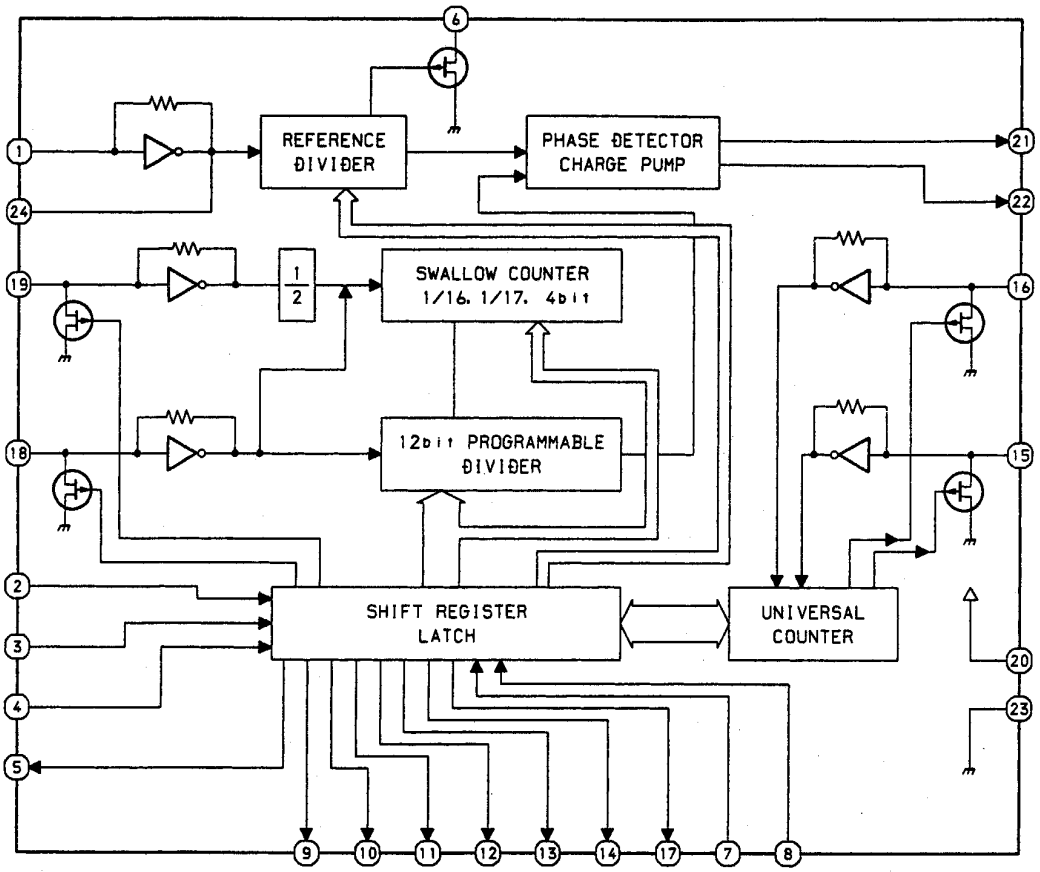


TRUTH TABLE

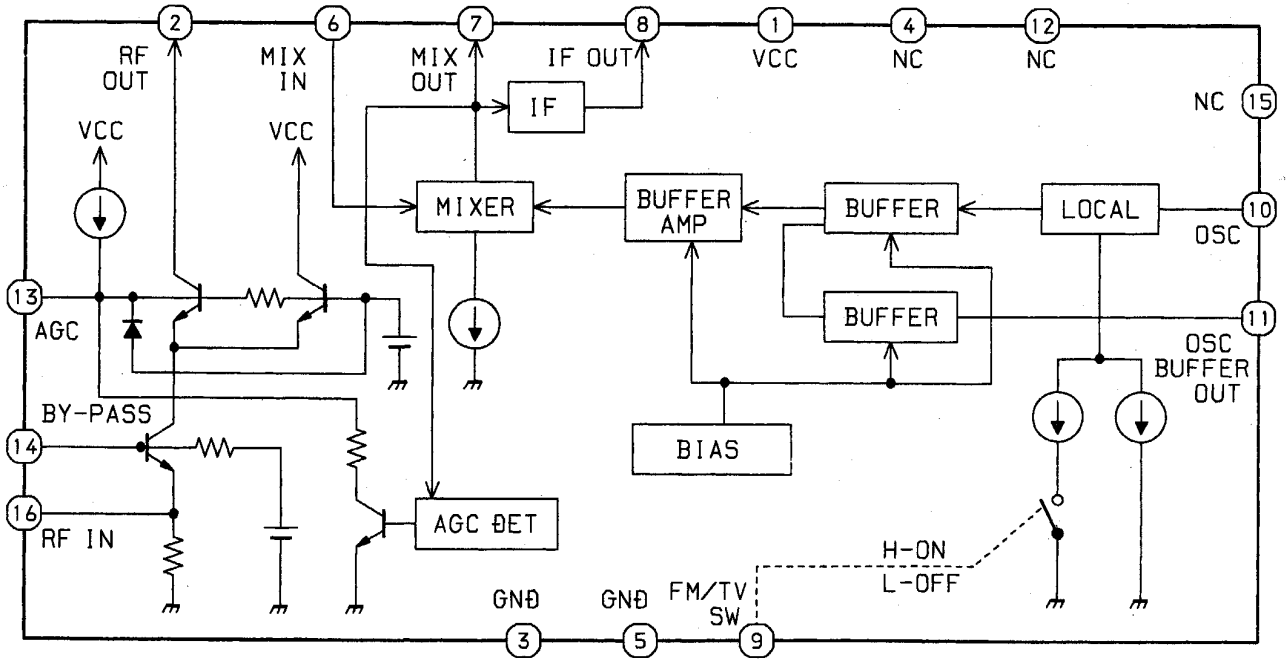
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	X	X	Z	Z	Q7	NO Chg.
↓	L	X	X	Z	Z	No Chg.	Qs
↑	H	L	X	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	X	X	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance
X=Don't Care

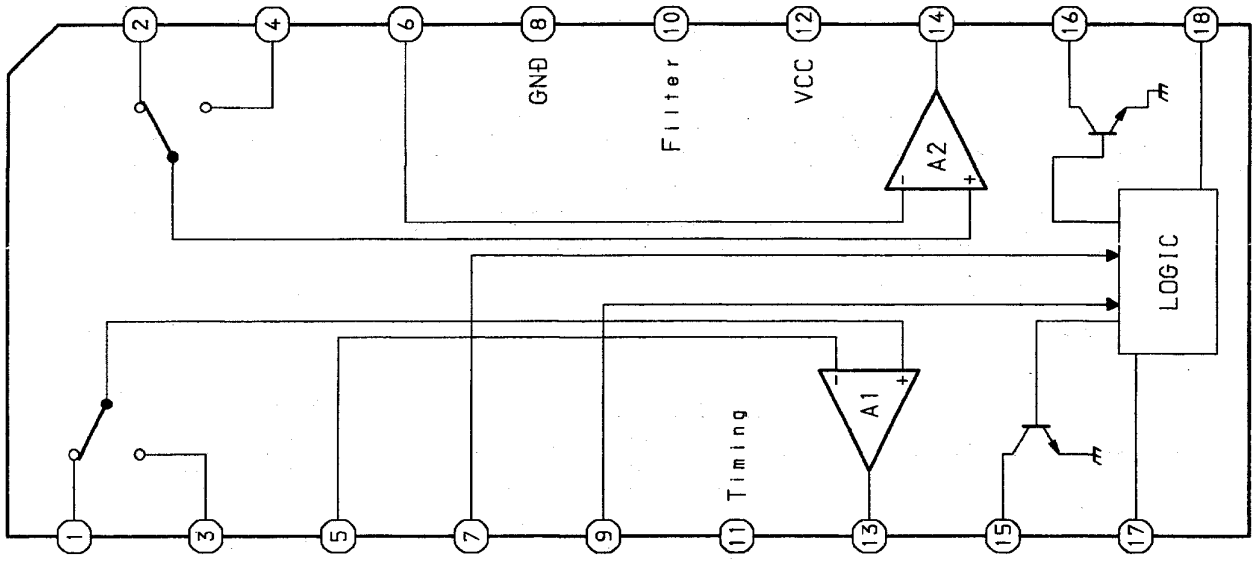
IC, LC7218



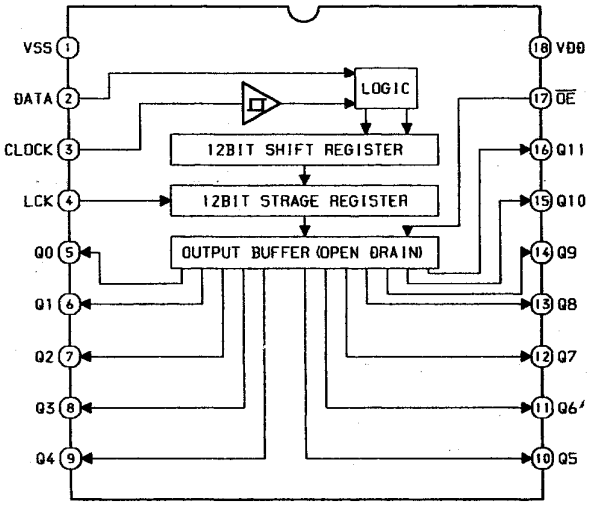
IC, TA8176SN



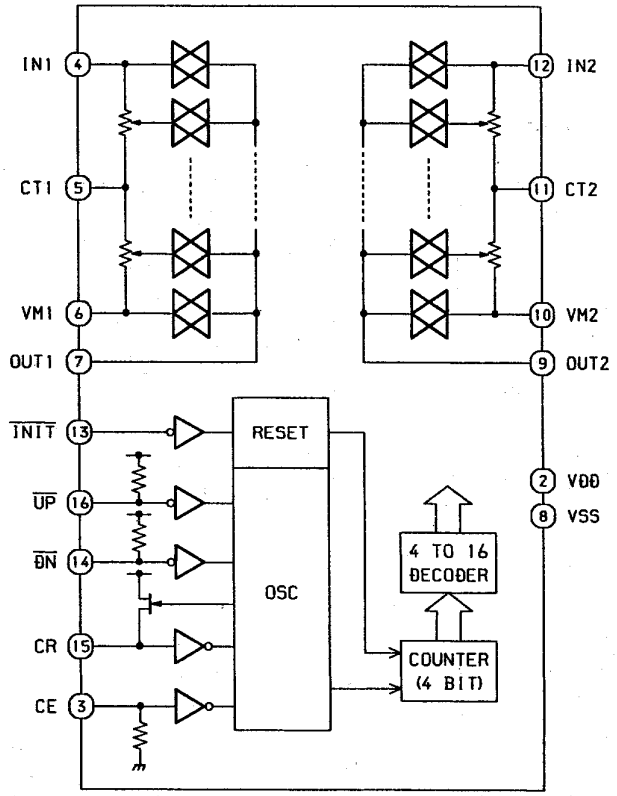
IC, BA3416BL



IC, BU2092



IC, LC7533



IC DESCRIPTION

IC, LC867116W-5B12/LC867120W-5C19

Pin No.	Pin Name	I/O	Description
1	O-DATA	O	PLL, shift register data output.
2	O-CLK	O	PLL, shift register clock output.
3	$\overline{\text{O-FSTB}}$	O	Shift register data latch strobe output.
4	O-MUTE	O	Main mute output.
5	O-PCONT	O	Machine power supply control output.
6	I-TUDO	I	PLL IC tuner data input.
7	$\overline{\text{I-RST}}$	I	Microprocessor reset..
8	XT1	I	Connected to 32.768 kHz crystal.
9	XT2	O	Connected to 32.768 kHz crystal.
10	VSS1	—	GND.
11	CF1	I	Connected to 6 MHz ceramic lock.
12	CF2	O	Connected to 6 MHz ceramic lock.
13	VDD1	—	Microprocessor power supply (5 V).
14	I-KEY0	I	Key A/D input.
15	I-KEY1	I	Key A/D input.
16	I-TRY SW	I	CD tray open/close switch A/D input.
17	I-PU-INNER	I	CD inside limit switch input.
18	—	I	N.C.
19	I-MO/$\overline{\text{ST}}$	I	Tuner · stereo detection.
20	I-MICLEV	I	Microphone level detection.
21	I-$\overline{\text{REC}}$	I	N.C.
22	$\overline{\text{O-T-BASS}}$	O	T-bass circuit ON/OFF switch output (ON: L).
23	O-CDSW	O	CD block power supply control output (ON: H).
24	O-INIT	O	Initial setting output.
25	$\overline{\text{O-HSP}}$	O	High speed dubbing selector output (ON: L).
26	I-HOLD	I	Hold backup mode at "H".
27	—	I	N.C.
28	I-RMT	I	Remote control input.
29	PAO	I	Initial setting input.
30	S1	O	LCD segment output.
31~40	S2~S11	O	LCD segment output and initial setting output at the same time.
41	VDD3	—	Microprocessor power supply.
42	VSS3	—	GND.
43	S12	O	LCD segment output.
44	S13	O	LCD segment output.
45~60	S16~31	O	LCD segment output.
61	V3	—	LCD drive bias power supply.
62	V2	—	LCD drive bias power supply.
63	V1	—	LCD drive bias power supply.
64	COM0	O	LCD common output.
65	COM1	O	LCD common output.

Pin No.	Pin Name	I/O	Description
66	COM2	O	LCD common output.
67	COM3	O	N.C.
68	VSS2	—	GND.
69	VDD2	—	CD IC control data bus input/output.
70	I/O BUS0	I/O	CD IC control data bus input/output.
71	I/O BUS1	I/O	CD IC control data bus input/output.
72	I/O BUS2	I/O	CD IC control data bus input/output.
73	I/O BUS3	I/O	CD IC control data bus input/output.
74	$\overline{\text{O-CCE}}$	O	CD IC control chip enable output.
75	O-BUCK	O	CD IC control data bus clock output.
76	O-CDMUTE	O	CD mute output.
77	O-CLOSE	O	CD tray close output (Close ON: H).
78	O-OPEN	O	CD tray open output (Close ON: H).
79	O-CE	O	PLL chip enable output.
80	O-MSTB	O	Shift register (MAIN C.B.) data latch strobe output.

IC, TC9284BF

Pin No.	Pin Name	I/O	Description
1	GNDA	—	D/A converter R-channel analog GND.
2	RO	O	R-channel data positive output.
3	$\overline{RO}$	O	R-channel data inverted output.
4	VDA	—	D/A converter power supply.
5	$\overline{LO}$	O	L-channel data inverted output.
6	LO	O	L-channel data positive output.
7	GNDA	—	D/A converter L-channel analog GND.
8～10	$\overline{TEST3}$～$\overline{TEST5}$	I	TEST pin. Normally "H" or open.
11	SBOK	O	Sub code Q data CRCC judgment result output. Judgment result OK: H
12	VDDD	—	Digital power supply. (+5 V)
13	GNDD	—	Digital GND.
14～17	BUS0～BUS3	I/O	µprocessor interface, data input/output.
18	CCE	I	µprocessor interface, chip enable signal input. When "L" : BUS 3～0 are active
19	BUCK	I	µprocessor interface, clock input.
20	PFCK	O	PB frame sync output.
21	$\overline{RST}$	I	Reset signal input. "L" at reset.
22	SUBSYC	O	Sub code block sync output. When sub code is detected,"H" at S1 position.
23	SUBD	O	Sub code P～W output.
24	CLCK	I	Sub code P～W data read clock input.
25	VDDD	—	Digital power supply. (+5 V)
26	GNDD	—	Digital GND.
27	DFCT	O	Defect detection signal output. When defect is detected: "VREF", normally "HiZ".
28	TEL2	O	Tracking gain adjustment analog switch output. "VREF" , or "HiZ".
29	TEL1	O	Tracking gain adjustment analog switch output. "VREF" , or "HiZ".
30	TGUL	O	Analog switch output for tracking servo gain up. Polarity in gain-up mode and normal mode can be selected by command.
31	TGUH2	O	Analog switch output for tracking servo gain up. "HiZ" for gain-up, normally "VREF".
32	TUGH1	O	TGUH1 during normal playback. TGUH2: not used
33	TKIC	O	Tracking actuator kick signal output. NKICx and CKICx are used for kick during tracking gain adjustment. "VREF" for outermost track."O" for moving toward inner track. Normally "HiZ".
34	FMON	O	Analog switch output to turn ON/OFF the feed servo. "HiZ" to turn ON servo. "VREF" to turn OFF servo.
35	$\overline{TEST1}$	I	TEST pin. Normally "H" or open.
36	FMFB	O	Feed motor FWD/RWD direction control signal output."2VREF" for outmost track. "O" for moving toward inner track. Normally "HiZ".
37	$\overline{TEST}$	I	TEST pin. Normally "H" or open.
38	DMON	O	Analog switch output to select gain of the disc motor drive circuit. "HiZ" for CLV servo OFF, "HiZ" or "VREF" can be selected by command.

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>39</td><td>DMPC</td><td>O</td><td>Disc motor CLV servo AFC signal output.
<table>
<tr><th>Operation</th><th>Command</th><th>DMFC output</th></tr>
<tr><td>Motor acceleration</td><td>DMFK</td><td>“2VREF”</td></tr>
<tr><td>CLV servo ON</td><td>DMSV</td><td>AFC signal (PWM)</td></tr>
<tr><td>Motor brake</td><td>DMBK</td><td>“L”</td></tr>
<tr><td>CLV servo OFF</td><td>DMOFF</td><td>“VREF”</td></tr>
</table></td></tr>
<tr><td>40</td><td>DMPC</td><td>O</td><td>Disc motor CLV servo APC signal output.</td></tr>
<tr><td>41</td><td>2VREF</td><td>—</td><td>Analog power supply. (twice the “VREF” voltage)</td></tr>
<tr><td>42</td><td>SEL</td><td>O</td><td>Servo mode select output. It turns ON/OFF the laser diode (LD) and focus servo.
<table>
<tr><th>SEL output</th><th>LD</th><th>Focus servo</th><th>Operating mode</th></tr>
<tr><td>“L”</td><td>OFF</td><td>OFF</td><td>LD OFF</td></tr>
<tr><td>“HiZ”</td><td>ON</td><td>OFF</td><td>Focus search</td></tr>
<tr><td>“H”</td><td>ON</td><td>ON</td><td>Focus ON (normal play)</td></tr>
</table></td></tr>
<tr><td>43</td><td>FCSI</td><td>O</td><td>Focus actuator drive signal output during focus search mode. “VDDA” to move the lens far from disc. “L” to move the lens closer to disc. Normally “HiZ”.</td></tr>
<tr><td>44</td><td>FKIC</td><td>O</td><td>Focus actuator drive signal output during focus adjustment mode. “VDDA” to move the lens far from disc. “L” to move the lens closer to disc. Normally “HiZ”.</td></tr>
<tr><td>45, 46</td><td>FEL1, FEL2</td><td>O</td><td>Focus gain adjustment analog switch output. “VREF” or “HiZ”.</td></tr>
<tr><td>47</td><td>FEI</td><td>I</td><td>Focus error signal input.</td></tr>
<tr><td>48</td><td>TESH</td><td>I</td><td>Analog switch input to track error signal sample-and-hold.</td></tr>
<tr><td>49</td><td>TEOF</td><td>O</td><td>Focus gain adjustment analog switch output.“VREF” when tracking servo off.</td></tr>
<tr><td>50</td><td>SBAD</td><td>I</td><td>Sub beam added signal input.</td></tr>
<tr><td>51</td><td>RFRP</td><td>I</td><td>RF ripple signal input.</td></tr>
<tr><td>52</td><td>VREF</td><td>—</td><td>Analog power supply.</td></tr>
<tr><td>53</td><td>RFI</td><td>I</td><td>RF signal input.</td></tr>
<tr><td>54</td><td>GNDA</td><td>—</td><td>Analog GND.</td></tr>
<tr><td>55</td><td>DTSC2</td><td>O</td><td>Data slice control EFM signal inverted output.</td></tr>
<tr><td>56</td><td>MONI T</td><td>O</td><td>Internal signal monitored output. EFMO, PLCK or LOCK signals can be selected by command. Can be muted. (Not used)</td></tr>
<tr><td>57</td><td>DTSC 1</td><td>O</td><td>Data slice control EFM signal positive polarity output.</td></tr>
<tr><td>58</td><td>VDDA</td><td>—</td><td>Analog power supply.</td></tr>
<tr><td>59</td><td>PDCNT</td><td>I</td><td>PDO output control signal input. “L” to fix to “HiZ” forcibly. “H” : normal output.</td></tr>
<tr><td>60</td><td>PDO</td><td>O</td><td>Phase error signal between EFM and PLCK signals is output.</td></tr>
<tr><td>61</td><td>TMAX</td><td>O</td><td>TMAX detected result output.
<table>
<tr><th>TMAX detected result</th><th>TMAX output</th></tr>
<tr><td>Longer than specified cycle</td><td>“L”</td></tr>
<tr><td>Shorter than specified cycle</td><td>“VREF”</td></tr>
<tr><td>Within specified cycle</td><td>“HiZ”</td></tr>
</table></td></tr>
<tr><td>62</td><td>LPFN</td><td>I</td><td>Low-pass filter amplifier inverted input.</td></tr>
</table>

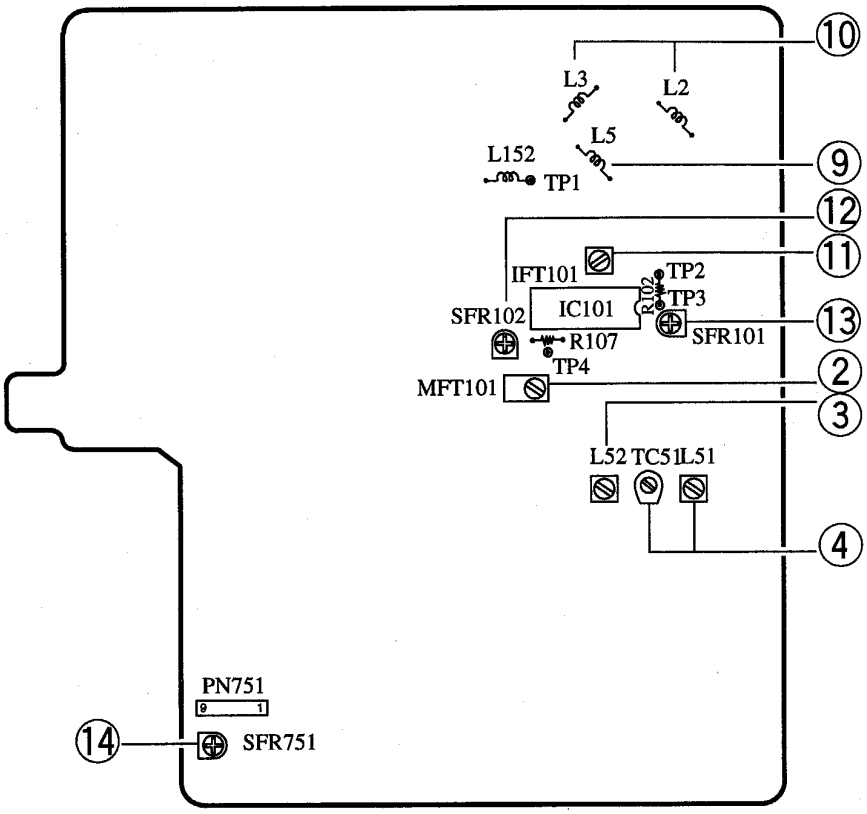
Pin No.	Pin Name	I/O	Description
63	LPFO	O	Low-pass filter amplifier output.
64	VCOF	O	VCO filter output.
65	TESTX	I	TEST pin. Normally "H" or "L" .(Connected to +5 V)
66	$\overline{HS}$	O	Double speed mode output. "H" : normal speed. "L" : double speed
67	GNDD	—	Digital GND.
68	SPDA	O	Processor status signal output.
69	COFS	O	Correction circuit frame clock (7.35 kHz) output.
70	WDCK	O	Word clock (88.2 kHz) output. SUBQ, BUF0V or 1PF can be selected by the μprocessor command. (Not used)
71	CHCK	O	Channel clock (44.1 kHz) output. "L"for L-channel. "H" for R-channel.
72	BCK	O	Bit clock (1.4112 MHz) output.
73	AOUT	O	Audio data output. (Not used)
74	EMPH	O	Emphasis ON/OFF select signal. "H" : emphasis ON. "L" for emphasis OFF
75	DOUT	O	DIGITAL SIGNAL output.
76	$\overline{TEST2}$	I	TEST pin. Normally "H".
77	VDDX	—	Crystal oscillator circuit power supply.
78	XI	I	External crystal oscillator is connected. (Crystal oscillator frequency 16.9344 MHz)
79	XO	O	External crystal oscillator is connected. (Crystal oscillator frequency 16.9344 MHz)
80	GNDX	—	Crystal oscillator GND.

IC, TA2065F

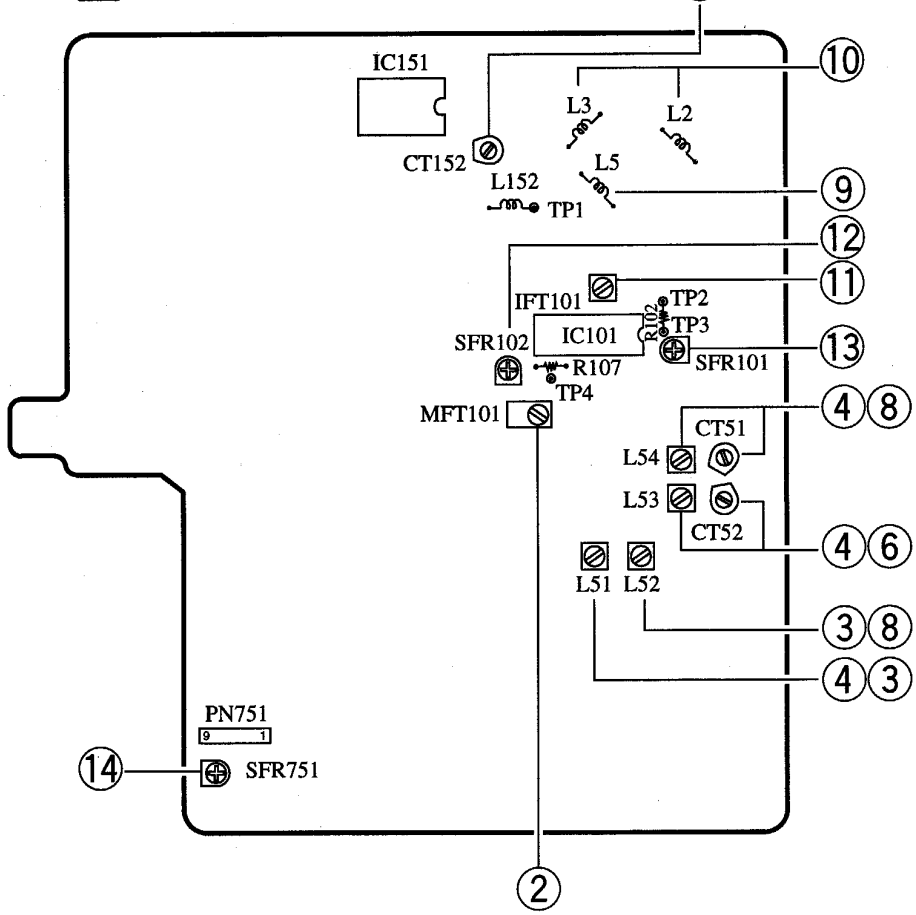
Pin No.	Pin Name	I/O	Description
1	RFO	O	RF amp (RF AMP) output terminal.
2	RFI	I	RF ripple signal generating circuit input terminal.
3	VRO	O	VR amp output terminal.
4	2VRO	O	2VR amp output terminal.
5	RFRP	O	RF ripple signal output terminal.
6	SBAD	O	Defects detection signal output terminal.
7	DFIN	I	Defect detecting comparator positive phase input terminal.
8	FEP	I	Focus error balance adjusting input terminal.
9	FEN	I	Focus error amp (FE AMP) negative phase input terminal.
10	FEO	O	Focus error amp (FE AMP) output terminal.
11	FEI	I	Focus output amp (FS AMP) positive phase input terminal.
12	FHLD	I	Hold switch terminal for defect.
13	FEL1	I	Focus gain adjusting terminal.
14	FEL2	I	Focus gain adjusting terminal.
15	FSN	I	Focus output amp (FS AMP) negative phase input terminal.
16	FSO	O	Focus output amp (FS AMP) output terminal.
17	COSC	O	Focus search signal generating capacitor connecting terminal.
18	OSCI	I	Focus search signal generating built-in current source control input terminal.
19	GND	—	Ground terminal.
20	VCC	—	Power source terminal.
21	SEL	I	Analog switch control signal input terminal.
22	DMEP	I	Disc motor amp (DM AMP) positive phase input terminal.
23	DMEN	I	Disc motor amp (DM AMP) negative phase input terminal.
24	DMEO	O	Disc motor amp (DM AMP) output terminal.
25	DFCT	I	Defect detecting comparator negative phase input terminal.
26	FMSO	O	Feed motor output amp (FMS AMP) output terminal.
27	FMSN	I	Feed motor output amp (FMS AMP) negative phase input terminal.
28	FMSP	I	Feed motor output amp (FMS AMP) positive phase input terminal.
29	THLD	I	Hold switch terminal for defect.
30	TS2O	O	Tracking servo amp 2 (TS2 AMP) output terminal.
31	TS2N	I	Tracking servo amp 2 (TS2 AMP) negative phase input terminal.
32	TS2P	I	Tracking servo amp 2 (TS2 AMP) positive phase input terminal.
33	TS1N	I	Tracking servo amp 1 (TS1 AMP) negative phase input terminal.
34	TS1P	I	Tracking servo amp 1 (TS1 AMP) positive phase input terminal.
35	TSO	O	Tracking output amp (TS AMP) output terminal.
36	TEL1	I	Tracking gain adjusting terminal.
37	TEL2	I	Tracking gain adjusting terminal.
38	TSN	I	Tracking output amp (TS AMP) negative phase input terminal.
39	TPO	O	Sub-beam I-V amp output terminal.
40	TPI	I	Sub-beam I-V amp input terminal.
41	TNI	I	Sub-beam I-V amp input terminal.

Pin No.	Pin Name	I/O	Description
42	TNO	O	Sub-beam I-V amp output terminal.
43	FNI	I	Main-beam I-V amp input terminal.
44	FPI	I	Main-beam I-V amp input terminal.
45	LDO	O	Laser diode amp output terminal.
46	MDI	I	Monitor photo diode amp input terminal.
47	RFN	I	RF amp negative phase input terminal.
48	RFT	I	RF amp peaking terminal.

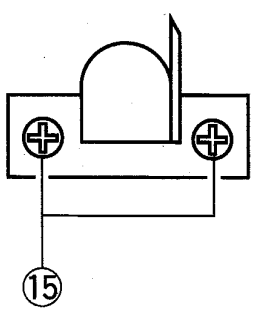
A MAIN C.B <LH>



A MAIN C.B <EXCEPT LH> ①



RPH (DECK1) /
PH (DECK2)



< TUNER SECTION >

1. Clock Adjustment <V>
   Settings: • Test point: IC101 Pin ㉚
   • Adjustment location: CT152
   Method: Input the AM 1MHz signal. Adjust CT152 so that the test point becomes 1.45MHz.

2. MW (AM) IF Adjustment
   MFT101 ..... 450kHz

3. MW (AM) VT Adjustment <LH, HE>
   Settings: • Test point: TP1
   • Adjustment location: L52
   Method: Set to MW (AM) 530kHz and adjust L52 so that test point is 1.3V±0.05V.

3. MW VT Adjustment <V, K, EZ, EEZ>
   Settings: • Test point: TP1
   • Adjustment location: L51
   Method: Set to MW 531kHz and adjust L51 so that the test point is 1.3±0.05V.

4. MW (AM) Tracking Adjustment
   <V, K, EZ, EEZ>
   L54 ..... 603kHz
   CT51 ..... 1404kHz
   <HE>
   L53 ..... 600kHz
   CT52 ..... 1400kHz
   <LH>
   L51 ..... 600kHz
   CT51 ..... 1400kHz

5. LW VT Adjustment <V, K, EZ, EEZ>
   Settings: • Test point: TP1
   • Adjustment location: L52
   Method: Set to LW 153kHz and adjust L52 so that test point is 2.5V.

6. LW Tracking Adjustment <V, K, EZ, EEZ>
   L53 ..... 153kHz
   CT52 ..... 288kHz

7. SW VT Adjustment <HE>
   Settings: • Test point: TP1
   • Adjustment location: L51
   Method: Set to SW 3.8MHz and adjust L51 so that test point is 1.2V.

8. SW Tracking Adjustment <HE>
   L52 ..... 3.8MHz
   CT51 ..... 12.5MHz

9. FM VT Adjustment
   Settings: • Test point: TP1
   • Adjustment location: L5
   Method: Set to FM 87.5MHz and adjust L5 so that test point is 4V±0.1V.

10. FM Tracking Adjustment <EXCEPT V>
    L2, 3 ..... 87.5MHz

10. FM Tracking Adjustment <V>
    L2 ..... 65MHz
    L3 ..... 108MHz

11. DC Balance/MONO Distortion Adjustment
    Settings: • Test point: TP2, TP3
    • Adjustment location: IFT101
    • Input level: 60dB
    Method: Set to FM 98.0MHz and adjust IFT101 so that the voltage between TP2 and TP3 becomes 0V±10mV.

12. AM Auto Stop Adjustment
    Settings: • Adjustment location: SFR102
    Method: Make setup for MW (AM) 1404kHz (LH, HE : 1400kHz). Adjust SFR102 so that the machine performs Auto Stop when 53±2dB is input.

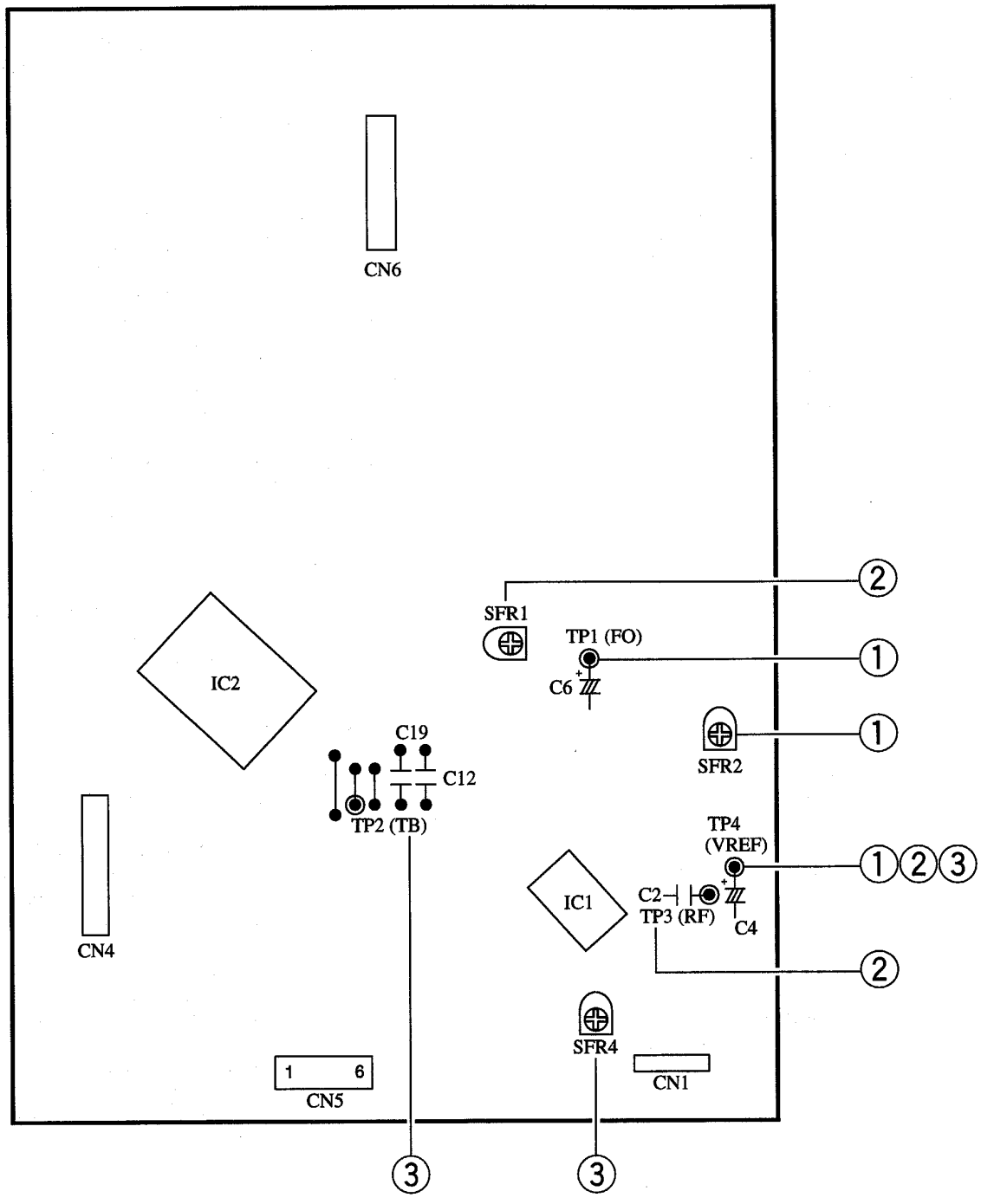
13. FM Auto Stop Adjustment
    Settings: • Adjustment location: SFR101
    Method: Make setup for FM 87.5MHz. Adjust SFR101 so that the machine performs Auto Stop when 32±5dB is input.

< TAPE SECTION >

14. Tape speed Adjustment (DECK2)
    Settings: • Test tape: TTA-100 (TTA-111S)
    • Adjustment location: SFR751
    Method: Play back the test tape with DECK1 and adjust SFR751 so that the output frequency is 3000Hz. After the adjustment, check that the frequency of DECK2 is 3000±60Hz.

15. Azimuth Adjustment (DECK1, DECK2)
    Settings: • Test tape: TTA-320
    • Adjustment location: Head azimuth adjustment screw
    Method: Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

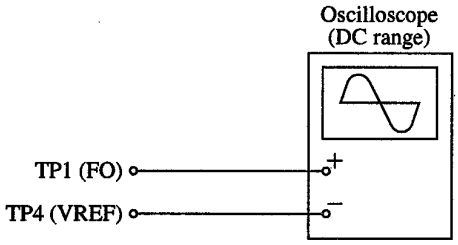
C CD C.B


CN6
IC2
SFR1
TP1 (FO)
C6
SFR2
C19
C12
TP2 (TB)
TP4
(VREF)
IC1
C2
TP3 (RF)
C4
CN4
SFR4
CN1
1
6
CN5
2
1
1
1 2 3
2
3
3

< CD SECTION >

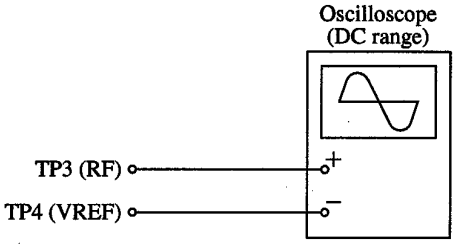
Note: · Connect a probe (10: 1) of the oscilloscope to a test point.

1. Focus offset Adjustment

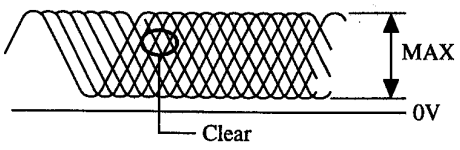


1) Short the pin ④ and pin ⑥ of CN5 with wire.
2) Connect an oscilloscope between test points TP1 (FO) and TP4 (VREF).
3) Turn on the power switch.
4) Adjust SFR2 so that the offset level is 0±5mV.
5) After the adjustment is completed, remove the short wire from CN5.

2. Focus Balance Adjustment
Make the focus bias adjustment when replacing and repairing the optical block.

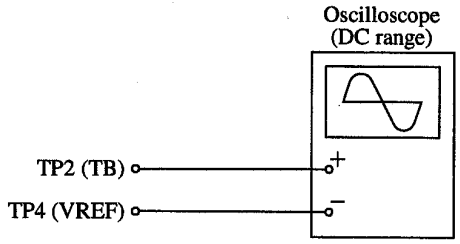


1) Connect an oscilloscope to test points TP3 (RF) and TP4 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4) Adjust SFR1 so that the level of RF wave to be maximum and clear.

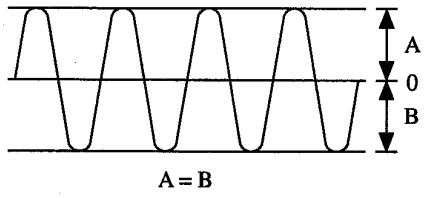


VOLT/DIV: 50mV
TIME/DIV: 0.5µS

3. Tracking Balance Adjustment



1) Connect an oscilloscope to test points TP2 (TB) and TP4 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and press the PLAY (▶) button.
4) Push and hold the ⏭ button. (MS mode)
5) Adjust SFR4 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: 20mV
TIME/DIV: 1mS

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION > (EXCEPT V)

IHF Sensitivity:	16dB±5dB (at 87.5MHz)
(THD 3%)	17dB±5dB (at 98.0MHz)
	19dB±5dB (at 108.0MHz)
Signal to noise ratio:	60±5dB (at 98.0MHz)
Distortion:	Less than 2.0%
(Input 54dB)	(at 98.0MHz)
Auto stop level:	32dB±5dB
	(at 98.0MHz)
Stereo separation:	More than 25dB
	(at 98.0MHz)
Intermediate frequency:	10.7MHz

< MW (AM) SECTION >

Sensitivity:	50dB±5dB
(S/N 10dB)	[at 600kHz (LH, HE)]
	45dB±5dB
	[at 1400kHz (LH, HE)]
	47dB±5dB
	[at 603kHz (V, K, EZ, EEZ)]
	45dB±5dB [at 999kHz (V, K, EZ, EEZ)]
	43dB±5dB
	[at 1404kHz (V, K, EZ, EEZ)]
Distortion:	Less than 5.0%
(Input 74dB)	[at 999kHz (V, K, EZ, EEZ)]
	Less than 5.0%
	[at 1000kHz (LH, HE)]
Intermediate frequency:	450kHz

< FM1 SECTION > (V)

IHF Sensitivity:	19dB±5dB
(THD 3%)	(at 65.0/70.0 MHz)
	18dB±5dB (at 74.0MHz)
Signal to noise ratio:	60dB±5dB (at 70.0MHz)
Distortion:	Less than 2.0%
(Input 54dB)	(at 70.0MHz)
Auto stop level:	32dB±5dB (at 70.0MHz)
Intermediate frequency:	10.7MHz

< FM2 SECTION > (V)

IHF Sensitivity:	19dB±5dB
(THD 3%)	(at 88.0/98.0 MHz)
	18dB±5dB (at 108MHz)
Signal to noise ratio:	60dB±5dB (at 98.0MHz)
Distortion:	Less than 2.0%
(Input 54dB)	(at 98.0MHz)
Auto stop level:	32dB±5dB (at 98.0MHz)
Intermediate frequency:	10.7MHz

< LW SECTION > (V, K, EZ, EEZ)

Sensitivity:	58dB±6dB [at 153kHz]
(S/N 10dB)	57dB±6dB [at 198kHz]
	56dB±6dB [at 288kHz]
Signal to noise ratio:	More than 25dB [at 198kHz]
Intermediate frequency:	450kHz

< SW SECTION > (HE)

Sensitivity:	27dB±5dB [at 3.8MHz]
(S/N 10dB)	25dB±5dB [at 8MHz]
	25dB±5dB [at 12.5MHz]
Signal to noise ratio:	More than 32dB [at 8MHz]

< TAPE SECTION >

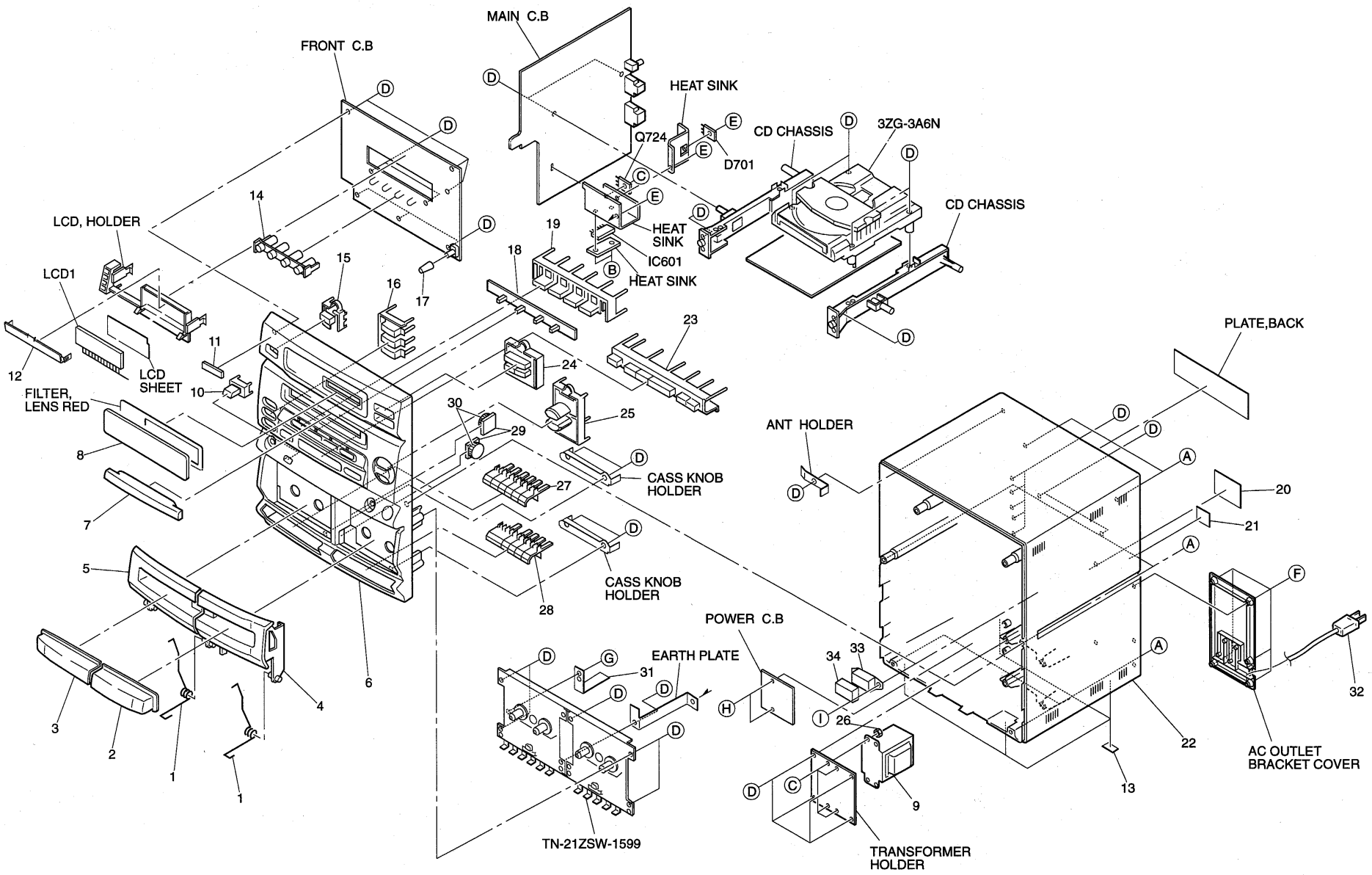
Tape speed:	3000Hz±90Hz
Wow & flutter:	Less than 0.4% (JIS, R.M.S)
Take-up torque:	30~60g-cm (FWD, REV)
F.F & REW torque:	55~120g-cm
Back tension:	1~4g-cm (FWD, REV)
Distortion:	Less than 5.0%
	(REC/PB, AC)
Noise level (Min.):	More than 1.0mV (PB)
Signal to noise ratio:	More than 37dB
	(REC/PB, AC)
Erasing ratio:	More than 60dB
	(at 400Hz)

MECHANICAL PARTS LIST 1 ／ 1

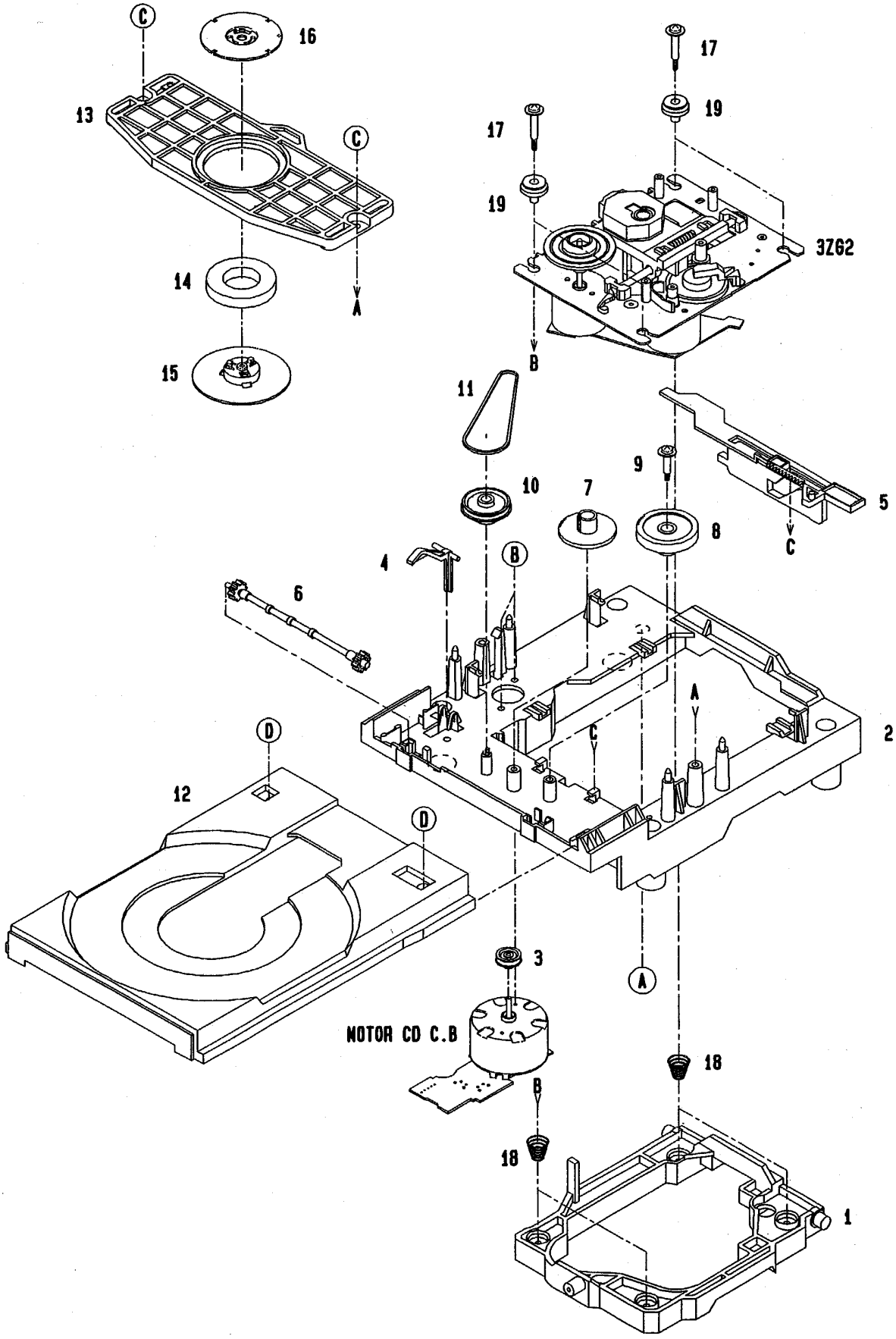
DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
1	S7-738-390-000		SPR,CASS
2	S7-738-090-000		CASS,LENS(R)
3	S7-738-080-000		CASS,LENS(L)
4	S7-738-040-200		DOOR,CASS(R)<EEZ,K,EZ,V>
4	S7-738-040-300		DOOR,CASS R(HR)<HE,LH>
5	S7-738-030-200		DOOR,CASS(L)<EEZ,K,EZ,V>
5	S7-738-030-300		DOOR,CASS L(HR)<HE,LH>
6	S7-738-010-700		PANEL,FRONT<EEZ,K,EZ,V>
6	S7-738-010-800		PANEL,FRONT(HR)<HE,LH>
7	S7-738-060-200		DOOR,CD
8	S7-738-100-300		LENS,LCD<EXCEPT LH>
8	S7-738-100-400		LENS,LCD(LH)<LH>
⚠ 9	S5-800-031-300		PT,TF EI-66 230V/15V<EEZ,K,EZ,V>
⚠ 9	S5-500-031-300		PT,TF EI-66/36 115/230V:15V<HE,LH>
10	S7-738-210-000		HI-DUBBING KNOB(BLK)
11	S7-538-120-000		BADGE AIWA
12	S7-738-280-000		LED COVER
13	S7-738-470-000		RUBBBER FOOT
14	S7-738-290-000		FUNCTION-LED GUIDE
15	S7-738-180-000		POWER KNOB(BLK)
16	S7-738-190-100		EQ KNOB(BLK)<EXCEPT LH>
16	S7-738-190-200		EQ KNOB(LH)<LH>
17	S7-738-130-000		MIC KNOB(BLC)
18	S7-738-220-000		FUNCTION LENS
19	S7-738-150-200		KNOB,FUNCTION
20	S7-738-250-000		CD-G PLATE
21	S7-738-240-000		VOLTAGE PLATE<EEZ,K,EZ,V>
21	S7-538-700-000		PLATE,COVER SW VOLTAGE<HE,LH>
22	S6-338-110-010		CAB,BACK
23	S7-738-140-200		KNOB,CONTROL
24	S7-738-160-000		CD KNOB(BLK)
25	S7-738-170-010		KNOB,VOLUME
26	S0-000-264-500		NUT,M2.6-0.45
27	S7-738-110-100		CASS KNOB(L)
28	S7-738-120-100		CASS KNOB(R)
29	S7-538-270-000		BRACKET GEAR
30	S7-538-280-000		GEAR,
31	S7-738-380-000		REC PLATE
⚠ 32	S2-201-200-010		POWER CORD
⚠ 33	S1-200-000-030		SW,SLIDE SS12J01M-A-65<HE,LH>
34	S2-838-080-000		VOLT,SW COVER<HE,LH>
A	87-741-104-010		SCREW,ST3-30MM PAB
B	87-353-076-210		SCREW,+2.6-12
C	87-751-095-410		SCREW,3-8
D	87-352-097-210		SCREW,ST3-12
E	87-261-095-010		SCREW,ST3-8MM HEAD V5.9-6.3 B
F	S0-503-001-000		SCREW,ST3-10MM
G	87-262-547-310		SCREW,2-3 PM
H	87-751-096-410		SCREW,3-10
I	S0-502-601-000		SCREW ST2.6-10<HE,LH>

MECHANICAL EXPLODED VIEW 1 / 1



CD MECHANISM EXPLODED VIEW 1 / 2

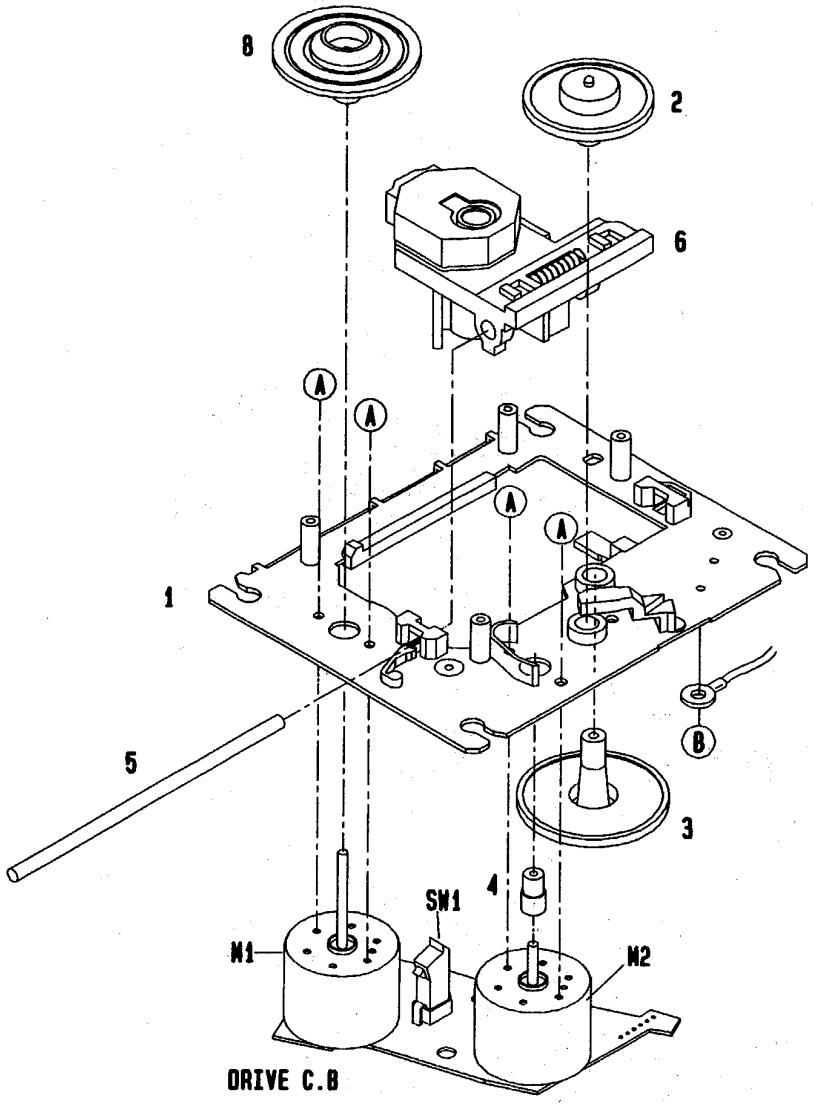


CD MECHANISM PARTS LIST 1 ／ 2

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-ZG3-202-01K		HLDR,MECH
2	83-ZG3-228-21K		CHAS,L6
3	83-ZG3-208-01K		PULLEY,MOTOR
4	83-ZG3-213-01K		LVR,SW
5	83-ZG3-209-01K		CAM,SLIDE
6	83-ZG3-207-01K		GEAR,TRAY
7	83-ZG3-204-01K		GEAR,C
8	83-ZG3-205-01K		GEAR,D
9	83-ZG3-217-019		S-SCREW,GEAR D
10	83-ZG3-220-11K		GEAR,PULLEY 2
11	83-ZG3-214-019		BELT,L
12	83-ZG3-203-61K		TRAY,CD
13	83-ZG3-210-01K		HLDR,CHUCK
14	83-ZG3-602-010		RING,MAG
15	83-ZG3-212-01K		CAP,DISC
16	83-ZG3-211-01K		PLATE,DISC
17	81-ZG1-254-019		S-SCEW,MECH HLDR
18	83-ZG3-216-019		SPR-C,L
19	83-ZG3-215-019		CUSH-G,MAIN
A	87-067-945-119		VFT2+3-12(F10)
B	87-251-071-119		U+2.6-4
C	87-512-074-219		VFT2+2.6-8
D	87-352-075-219		VT2+2.6-10

CD MECHANISM EXPLODED VIEW 2 / 2

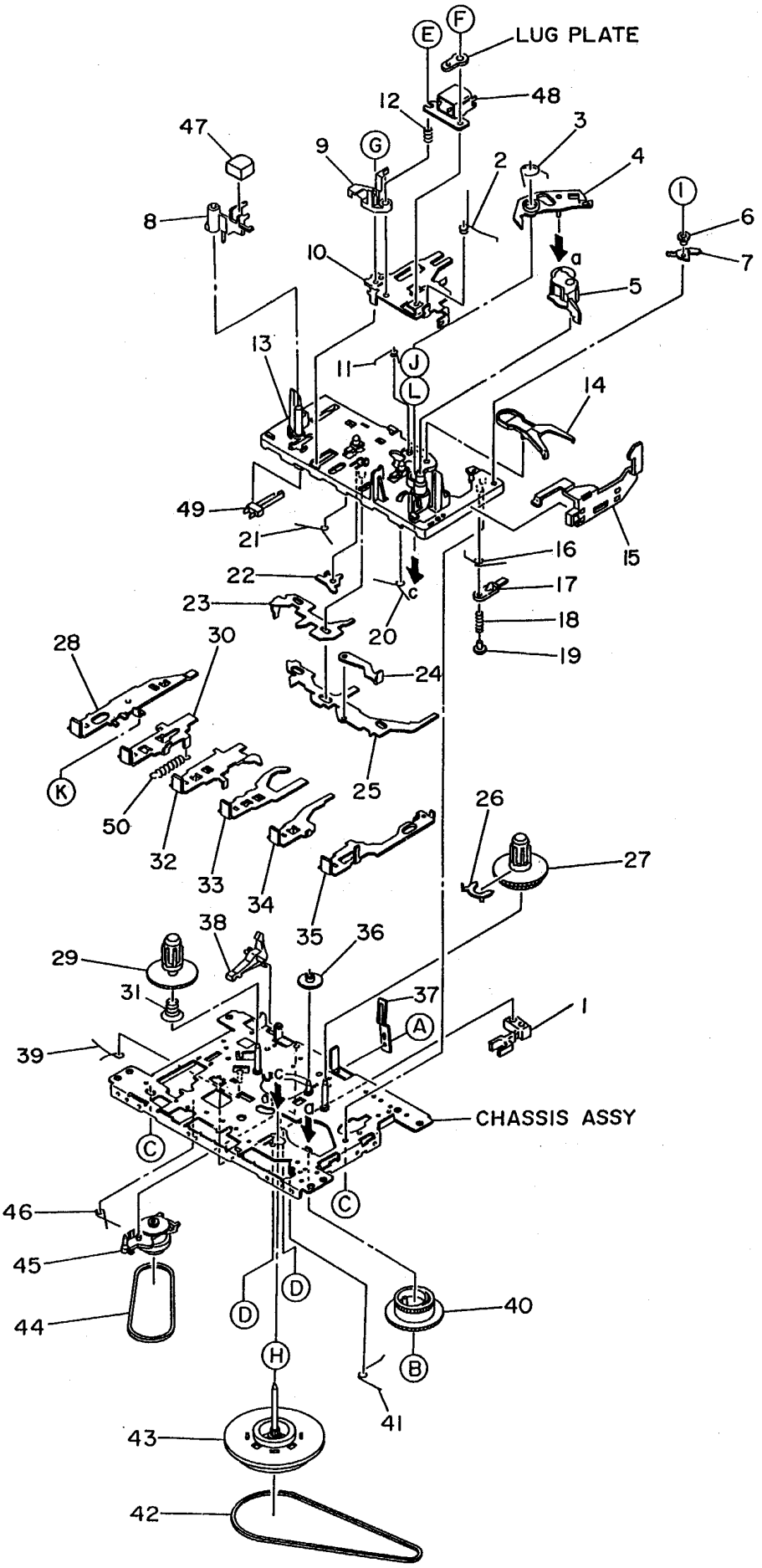


CD MECHANISM PARTS LIST 2 / 2

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-ZG2-202-51K		O-SERT S ASSY,S
2	83-ZG2-204-419		GEAR,A
3	83-ZG2-205-219		GEAR,B
4	83-ZG2-220-01K		GEAR MOTOR 2
5	83-ZG2-207-119		SHAFT,SLIDE
6	87-070-109-019		KSS 212A,PICKUP UNIT
8	83-ZG2-222-01K		TURN TABLE,A5
A	87-261-032-219		SCREW V+2-3
B	87-067-174-019		SCRE VTT+2-4

TAPE MECHANISM EXPLODED VIEW 1 / 2

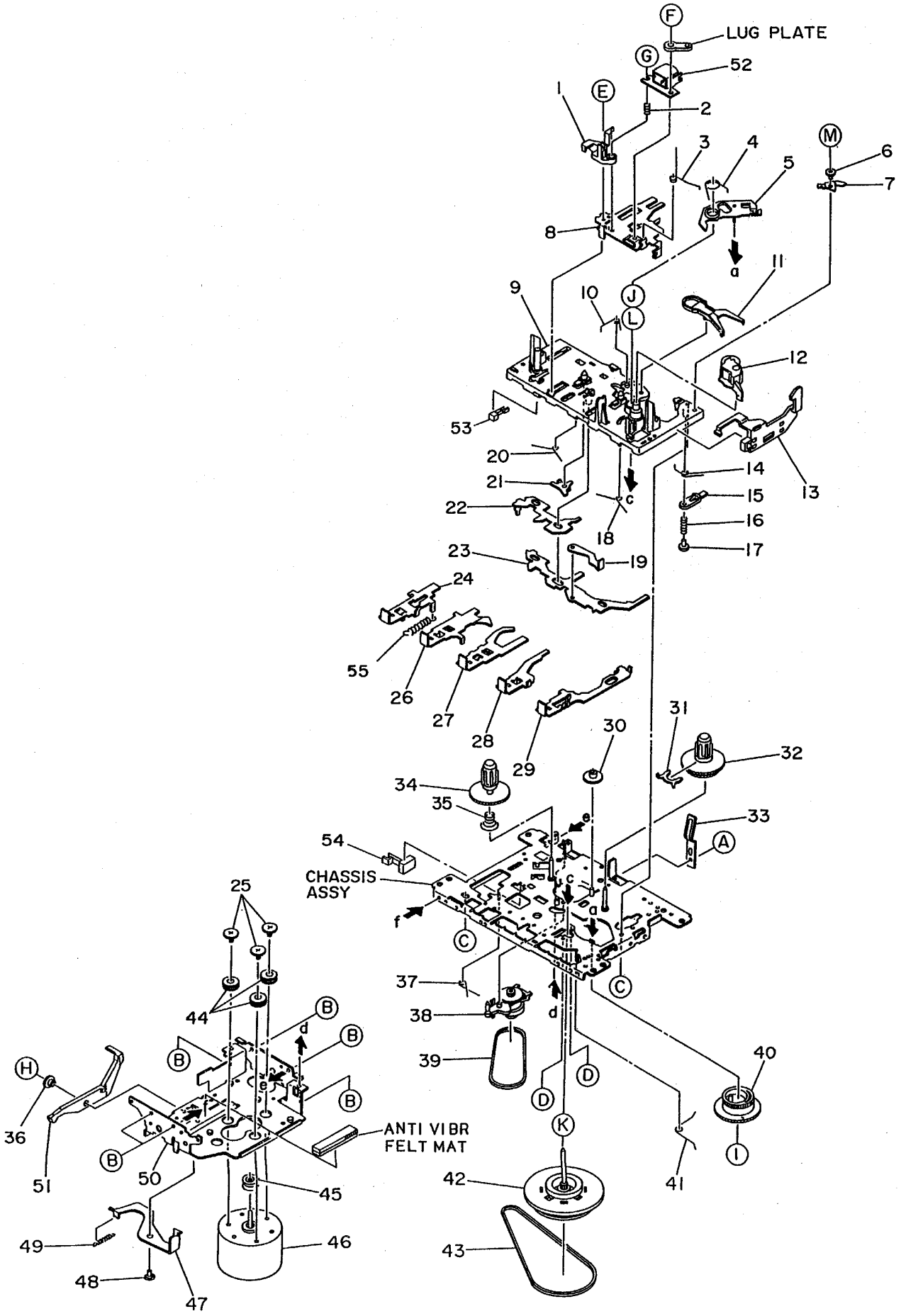


TAPE MECHANISM PARTS LIST 1／2

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	S6-401-011-610		LEAF SW MSW-17820MVEI
2	S1-921-030-030		PANEL P SPRING
3	S1-921-260-050		GEAR PLATE SPRING
4	S1-921-265-020		GEAR PLATE ASSY
5	S1-921-043-090		PINCH ROLLER ARM ASY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-050		MG ARM
9	S1-921-030-4A0		HEAD BASE
10	S1-921-030-110		HEAD PANEL
11	S1-921-141-8A0		M CONTROL SPRING
12	S1-821-030-070		AZIMUTH SPRING
13	S1-921-143-010		BASE ASSY
14	S1-921-260-4A0		SENSING LEVER
15	S1-921-130-020		EJECT SLIDE LEVER
16	S1-921-141-3A0		P CONTROL SPRING
17	S1-921-140-820		PAUSE LEVER(F)
18	S1-921-140-120		PAUSE LEVER SPRING
19	S1-921-140-110		PAUSE STOPPER
20	S1-921-140-150		BUTTON LEVER SPRING(B)
21	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-200		PR STOPPER
23	S1-921-140-090		SWITCH ACTUATOR
24	S1-821-011-590		E KICK LEVER
25	S1-921-140-080		PUSH BUTTON ACTUATOR
26	S1-921-050-060		SENSER
27	S1-921-053-030		TAKE UP REEL ASSY
28	S1-921-140-220		REC BUTTON LEVER
29	S1-921-053-040		SUPPLY REEL ASSY
30	S1-921-140-230		PLAY BUTTON LEVER
31	S1-829-100-100		BACK TENSION SPRING
32	S1-921-140-240		REW BUTTON LEVER
33	S1-921-140-250		FF BUTTON LEVER
34	S1-921-140-260		STOP BUTTON LEVER
35	S1-921-140-610		PAUSE BUTTON LEVER
36	S1-821-100-700		FF GEAR
37	S1-829-100-010		PACK SPRING
38	S1-821-100-690		RECORD SAFETY LEVER
39	S1-921-140-210		REC BUTTON LEVER SPRING
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-090-240		MAIN BELT
43	S1-921-093-030		FLYWHEEL ASSY
44	S1-921-070-030		RF BELT
45	S1-921-073-080		RF CLUTCH ASSY
46	S1-921-140-170		P.S.LEVER SPRING
47	S6-209-100-100		E HEAD PH-K380-MS1
48	S6-201-011-110		HEAD,RP7442ES-0951
49	S6-401-011-520		LEAF SW MSW-1541F
50	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P33-200-320		DEL TITE SCREWM2-3
B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-922-000-000		AZIMUTH SCREW M2-8
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-004-000-000		SCREW M2-6
H	S9-882-000-000		P WASHER 2-3.5-0.4
I	S9-999-200-410		P TAP SCREW M2-3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-179-000-000		C TAP SCREW M2-3
L	S9-999-000-030		P WASHER2.1-4-0.13

TAPE MECHANISM EXPLODED VIEW 2 / 2



TAPE MECHANISM PARTS LIST 2／2

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	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-030		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-010		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-090		PINCH ROLLER ARM ASY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-820		PAUSE LEVER(F)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-140-140		BUTTON LEVER SPRING(A)
21	S1-921-140-200		PR STOPPER
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
25	S1-821-120-020		MOTOR COLLER SCREW
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSER
32	S1-921-053-030		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-053-040		SUPPLY REEL ASSY
35	S1-829-100-100		BACK TENSION SPRING
36	S1-821-120-650		COLLER B
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-080		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-040		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
44	S1-820-130-060		MOTOR RUBBER
45	S1-921-120-130		MOTOR PULLEY
46	S6-002-030-290		MOTOR EG530YD-2BH
47	S1-821-120-680		P KICK LEVER (A)
48	S1-821-120-230		PK COLLER SCREW A
49	S1-821-120-250		P KICK LEVER SPRING
50	S1-921-120-110		MOTOR BRACKET
51	S1-921-120-090		P KICK LEVER
52	S6-201-011-110		HEAD,RP7442ES-0951
53	S6-401-011-520		LEAF SW MSW-1541F
54	S6-401-011-610		LEAF SW MSW-17820MVEI
55	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P33-200-320		DEL TITE SCREWM2-3
B	S9-180-000-000		C TAP SCREW M2-4
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-004-000-000		SCREW M2-6
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-922-000-000		AZIMUTH SCREW M2-8
H	S9-182-000-000		C TAP SCREW M2-6
I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-882-000-000		P WASHER 2-3.5-0.4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-999-200-410		P TAP SCREW M2-3

SPEAKER 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	86-CDP-002-010		GRILLE FRAME ASSY
2	86-CPD-601-010		SPKR,12
3	86-CPC-605-010		SPKR,CORD

■ 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	S6-338-910-300		INSTRUCTION BOOK(E)<EEZ,EZ>
1	S6-338-910-400		INSTRUCTION BOOK(H)<HE>
1	S6-338-910-200		INSTRUCTION BOOK(K)<K>
1	S6-338-910-600		INSTRUCTION BOOK(LH)<LH>
1	S6-338-910-700		INSTRUCTION BOOK(V)<V>
2	SR-CNV-100-EX0		RC,RC-NV100
3	S0-388-880-000		ANT,LOOP
⚠ 4	S0-220-117-000		CONVERTOR 220V-117V<HE,LH>
⚠ 4	S0-230-000-000		EURO CONVERTOR<K>

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
G－　－	
G－　－	
G－　－	

アイワ株式会社
AIWA CO.,LTD.

912162

Tokyo Japan

〒110 東京都台東区池之端1－2－11　☎ 03 (3827) 3111 （代表）

Printed in Singapore