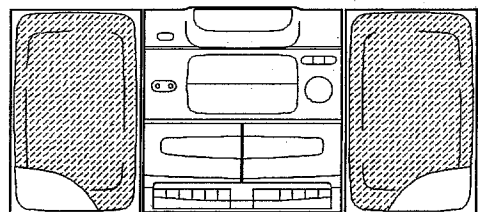


aiwa



CA-DW300 CA-DW400



CD CARRY COMPONENT SYSTEM

- BASIC TAPE MECHANISM:TN-21ZSW-1604
- BASIC CD MECHANISM:3ZG2-B1N

- TYPE:EE.EEZ.EZ.V.LH.HR.U.G(400)
- TYPE:EEZ.EZ.LH.HR.K(300)

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
(S/M Code No. 09-955-105-40T).

MANUAL
SERVICE

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SPECIFICATIONS

Tuner section

<U model>	
FM	87.5–108.0 MHz Antenna: FM antenna
AM	530–1,710 kHz Antenna: Ferrite bar antenna
<LH model>	
MW	530–1,710 kHz Antenna: Ferrite bar antenna
SW	3.9–12.1 MHz Antenna: FM/SW antenna
FM	87.5–108.0 MHz Antenna: FM/SW antenna
<HR model>	
MW	530–1,605 kHz Antenna: Ferrite bar antenna
SW	3.9–12.1 MHz Antenna: FM/SW antenna
FM	87.5–108.0 MHz Antenna: FM/SW antenna
<K, EE, EZ, G models>	
FM	87.5–108.0 MHz Antenna: FM antenna
MW	530–1,605 kHz Antenna: Ferrite bar antenna
LW	150–285 kHz Antenna: Ferrite bar antenna
<V model>	
FM	65.0–108.0 MHz Antenna: FM antenna
MW	530–1,605 kHz Antenna: Ferrite bar antenna
LW	150–285 kHz Antenna: Ferrite bar antenna

Amplifier section

Power output	<U, LH, HR models> 4 W + 4 W (4 ohms, EIAJ DC) FTC rule 3.5 Watts per channel, Min. RMS at 4 ohms, from 200 Hz to 20,000 Hz, with no more than 10 % distortion
	<K model> K, EE, EZ models: 5 W + 5 W (DIN MUSIC POWER) 4 W + 4 W (10% T.H.D./4Ω DC) 3 W + 3 W (DIN 1% Rated power) G model: 3.6 W + 3.6 W (DIN 10%) 4 W + 4 W (4 Ω, EIAJ DC)
Power requirements	<V model> 5 W + 5 W (DIN MUSIC POWER) 3 W + 3 W (DIN 1% Rated power)
	DC 12 V using eight R20 (size D) batteries U model: AC 120 V, 60 Hz LH, HR models: AC 110–120 V/220–240 V selectable, 50/60 Hz K, EE, EZ, V models: AC 230 V, 50 Hz G model: AC 230–240 V, 50 Hz
Power consumption	U model: 20 W EXCEPT U: 24 W

CD player section

Disc	Compact disc
Scanning method	Non-contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser $\lambda = 780 \text{ nm}$
Rotation speed	Approx. 500–200 rpm/CLV
Error correction	Cross Interleave, Reed Solomon code
Number of channels	2 channels
D/A conversion	16-bit linear

Cassette deck section

Track format	4 tracks, 2 channels
Frequency response	Normal tape: 50–12,000 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)

Common section

Dimensions (W × H × D)	260 × 281 × 232 mm
	(10 ¹ / ₄ × 11 ¹ / ₈ × 9 ¹ / ₄ in.)
Weight	3.6 kg (7.9 lbs) (not including batteries)

Speaker

Cabinet type	2-way bass reflex type
	100 mm (4 in.) cone type woofer
Speaker	27 mm (1 ¹ / ₈ in.) ceramic type tweeter
	4 ohms
Impedance	4 ohms
Allowable max. input	6 W
Dimensions (W × H × D)	175 × 277 × 201 mm × 2
	(7 × 11 × 8 in.)
Weight	1.2 kg (2.6 lbs) × 2

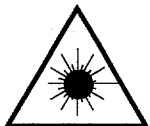
• Design and specifications are subject to change without notice.

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 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.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, 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

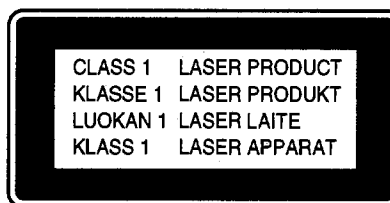
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



■ 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	S4-400-891-000		INSTRUCTION MANUAL<3K, 3EZ, 3EEZ>
1	S4-400-802-000		INSTRUCTION MANUAL<4U, 4LH>
1	S4-400-901-000		INSTRUCTION MANUAL<3HR>
1	S4-400-881-000		INSTRUCTION MANUAL<4HR>
1	S4-400-851-000		INSTRUCTION MANUAL<4V>
1	S4-401-031-000		INSTRUCTION MANUAL<3LH>
1	S4-400-872-000		INSTRUCTION MANUAL<4EEZ, 4EZ, 4EE, 4G>
1	S4-400-701-000		INSTRUCTION MANUAL<4LH>
1	S4-400-801-000		INSTRUCTION MANUAL<4U>
△ 2	S1-400-122-000		CORD, POWER AC<EXCEPT 4U, 3K, 4HR, 4G>
△ 2	S1-400-123-000		CORD, POWER AC<4HR>
△ 2	S1-400-342-000		CORD, POWER AC<4G>
△ 2	S1-400-241-000		CORD, POWER AC SET<3K>
△ 2	S1-400-221-000		CORD, POWER AC SET<4U>
3	SR-CDW-400-000		RC, RC-DW400<4U, 4LH, 4EEZ, 4EZ, 4EE, 4HR, 4V>

TRANSISTOR ILLUSTRATION



ECB

2SA933
DTA144TS
DTC124XS



EBC

2SA952
2SA1015
2SA1296
2SB1010
2SC2878



ECB

8550C
9011G
9014C
9015C



ECB

2SC2497

ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
IC				C146	87-010-908-010		CAP,E 220-10V
	87-017-539-010	IC,TA2031F		C150	87-015-995-010		CAP,E 4.7-50V
	87-002-408-010	IC,TC9236F		C214	87-010-548-010		CAP,E 220-16V
	87-002-644-010	IC,TDA1311		C226	87-010-908-010		CAP,E 220-10V
	87-002-258-010	IC,AN8377N		C229	87-010-412-080		CAP,E 10-25V
	87-001-176-010	IC,TA8102P					
△				C231	87-010-137-010		CAP,E 22-16V
	87-001-196-010	IC,ICP-N10		C232	87-015-692-010		CAP,E 0.22-50V
	S8-381-890-000	IC,TA8189N		C233	87-015-995-010		CAP,E 4.7-50V
	S1-007-220-000	IC,AN7205		C234	87-016-073-080		CAP,E 1-50V
	S1-003-220-000	IC,KA2264		C239	87-010-264-010		CAP,E 100-10V
	S1-007-310-000	IC,KA22471					
	S0-510-303-600	IC,BA3822LS		C240	87-016-073-080		CAP,E 1-50V
	87-027-666-080	IC,BU4052BC		C241	87-015-692-010		CAP,E 0.22-50V
	87-017-564-010	IC,LC7533		C242	87-015-692-010		CAP,E 0.22-50V
	87-001-206-010	IC,S-81250HG		C303	87-016-073-080		CAP,E 1-50V
	S1-010-710-000	IC,TA8207K		C306	87-016-073-080		CAP,E 1-50V
	87-070-149-010	IC,TMP47C620F-N774					
	87-070-083-010	IC,GPIU281X<EXCEPT 3K,3EZ,3EEZ,3LH,3HR>		C307	87-010-412-080		CAP,E 10-25V
TRANSISTOR				C308	87-010-908-010		CAP,E 220-10V
	87-026-291-080	TR,DTC124XS		C330	87-010-891-010		CAP,E 47-10V
	89-112-965-010	TR,2SA1296GR		C331	87-016-073-080		CAP,E 1-50V
	89-109-522-080	TR,2SA952K		C333	87-010-891-010		CAP,E 47-10V
	89-109-332-010	TR,2SA933S-S					
	87-026-219-080	TR,DTA144TS		C334	87-016-073-080		CAP,E 1-50V
	S2-SC2-878-000	TR,2SC2878B		C335	87-010-490-010		CAP,E 0.1-50V
	S2-901-5C1-000	TR,9015C		C338	87-010-908-010		CAP,E 220-10V
	S2-901-1G1-000	TR,9011G		C339	87-016-073-080		CAP,E 1-50V
	S2-2SC-249-770	TR,2SC2497		C343	87-010-405-010		CAP,E 10-50V
	SB-101-0QZ-000	TR,2SB1010Q					
	S2-855-0C1-000	TR,8550C		C344	87-010-653-010		CAP,E 47-25V
	S2-901-4C6-000	TR,9014C		C346	87-015-718-010		CAP,E 47-16V
	89-110-153-410	TR,2SA1015GR		C348	87-010-653-010		CAP,E 47-25V
DIODE				C349	87-010-653-010		CAP,E 47-25V
	87-020-465-010	DIODE,1SS133		C350	87-010-653-010		CAP,E 47-25V
	82-135-799-010	DIODE,IN4148					
	S3-IN4-001-100	DIODE,IN4001		C351	87-015-718-010		CAP,E 47-16V
	S3-IN6-0P1-000	DIODE,IN60P		C352	87-010-236-010		CAP,E 1000-10V
	S3-SD1-161-000	DIODE,SD116		C354	87-010-236-010		CAP,E 1000-10V
	S3-Z51-V10-000	ZENER,5.1V-1/2W		C355	87-010-379-010		CAP,E 22-10V
	S3-Z91-V70-000	ZENER,9.1V-1/2W		C357	87-016-073-080		CAP,E 1-50V
	S3-Z62-V80-000	ZENER,6.2V-1/2W					
	S3-Z01-2V1-000	ZENER,12V-1/2W		C358	87-010-379-010		CAP,E 22-10V
	S3-FR2-021-000	DIODE,FR202		C359	87-016-073-080		CAP,E 1-50V
MAIN C.B				C360	87-016-073-080		CAP,E 1-50V
AFT1	S6-005-710-000	IFT,171-603		C361	87-015-995-010		CAP,E 4.7-50V
AFT2	S6-005-710-000	IFT,171-603		C362	87-010-405-010		CAP,E 10-50V
C103	87-010-412-080	CAP,E 10-25V					
C104	87-016-044-040	CAP,E 100-16V		C364	87-010-908-010		CAP,E 220-10V
C105	87-010-035-010	CAP,E 2.2-50V		C365	87-010-908-010		CAP,E 220-10V
				C367	87-015-995-010		CAP,E 4.7-50V
C107	87-010-891-010	CAP,E 47-10V		C368	87-015-995-010		CAP,E 4.7-50V
C111	87-010-551-010	CAP,E 33-10V		C369	87-015-995-010		CAP,E 4.7-50V
C112	87-015-694-010	CAP,E 0.47-50V					
C113	87-016-073-080	CAP,E 1-50V		C375	87-016-073-080		CAP,E 1-50V
C115	87-016-073-080	CAP,E 1-50V		C376	87-016-073-080		CAP,E 1-50V
				C377	87-010-264-010		CAP,E 100-10V
C122	87-010-551-010	CAP,E 33-10V		C378	87-015-694-010		CAP,E 0.47-50V
C129	87-015-694-010	CAP,E 0.47-50V		C379	87-016-073-080		CAP,E 1-50V
C130	87-015-718-010	CAP,E 47-16V					
C132	87-016-073-080	CAP,E 1-50V		C382	87-016-073-080		CAP,E 1-50V
C133	87-015-718-010	CAP,E 47-16V		C385	87-016-073-080		CAP,E 1-50V
				IFC201	S2-900-081-000		CER,FIL FM 10.7MHZ
C134	87-016-073-080	CAP,E 1-50V		IFT1	S6-009-310-000		IFT,FM 7MM
C135	87-016-073-080	CAP,E 1-50V		IFT2	S6-009-210-000		IFT,FM 7MM
C136	87-016-073-080	CAP,E 1-50V					
C143	87-010-264-010	CAP,E 100-10V		IFT101	S6-009-71A-000		COIL,OSC AC BIAS
				JK402	S2-3B0-211-000		JACK,HP 3.5MM
				JK403	S2-3B0-211-000		JACK,HP 3.5MM
				JK404	S3-004-962-000		TERMINAL PUSH 4P
				L101	S2-600-371-000		INDUCTOR,33MH
				L104	S2-600-371-000		INDUCTOR,33MH
				L201	S7-A00-130-000		COIL,FM 4.5-4.5
				L202	S7-A00-130-000		COIL,FM 4.5-4.5<4V>
				L202	S2-600-311-000		INDUCTOR,15UH<4LH,4HR,3LH,3HR>
				L203	S7-A00-100-000		COIL,FM 4.5-3.5<EXCEPT 4V>
				L203	S7-A00-130-000		COIL,FM 4.5-4.5<4V>
				L204	S7-A00-100-000		COIL,FM 4.5-3.5<4V>
				L204	S7-A00-080-000		COIL,FM 5-2.5<4U,4LH,4HR,3LH,3HR>
				L204	S7-A00-210-000		COIL,FM 7-3.5
							<3K,3EZ,3EEZ,4EEZ,4EZ,4EE,4G>

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
L206	S6-010-210-000		COIL,OSC AM<4LH,4HR,3LH,3HR>
L206	S6-010-710-000		COIL,OSC LW<EXCEPT 4U,4LH,4HR,3LH,3HR>
L207	S6-010-210-000		COIL,OSC AM<EXCEPT 4U,4LH,4HR,3LH,3HR>
L207	S6-009-610-000		COIL,OSC AM<4U>
L207	S6-010-110-000		COIL,OSC SW 7MM(GRN)<4LH,4HR,3LH,3HR>
L208	S7-B00-380-000		COIL,ANT AM<4LH,4HR,3LH,3HR>
L208	S7-C00-111-000		COIL,ANT LW<EXCEPT 4U,4LH,4HR,3LH,3HR>
L209	S7-B00-380-000		COIL,ANT AM<EXCEPT 4U,4LH,4HR,3LH,3HR>
L210	S6-010-310-000		COIL,ANT SW 10MM<4LH,4HR,3LH,3HR>
PVC1	S2-300-261-000		P.V.C.PG-2220T8<EXCEPT 4U,4V>
PVC1	S2-300-351-000		PVC,L2S-22DNT<4V>
PVC1	S2-300-271-000		PVC,WF-2220T8-A28401<4U>
RF101	S7-029-124-010		RES,FUSING 2.2-1/4W<EXCEPT 4U>
SW201	S8-024-510-000		SW,SLIDE 4P2T<4U>
SW201	S8-024-210-000		SW,SLIDE 8P3T<EXCEPT 4U>
SW202	S8-024-410-000		SW,SLIDE 2P2T<4U,4LH,4HR,3LH,3HR>
SW202	S8-013-010-000		SW,SS23E01G9 2P3T<EXCEPT 4U,4LH,4HR,3LH,3HR>
VR201	SR-V10-340-000		SFR,10K
FRONT C.B			
C401	87-016-285-080		CAP,E 47-10V
C403	87-016-285-080		CAP,E 47-10V
C407	87-016-073-080		CAP,E 1-50V
D204	S2-800-011-000		LED,3MM(RED)
D403	S2-800-011-000		LED,3MM(RED)
D404	S2-800-011-000		LED,3MM(RED)
D409	S2-800-011-000		LED,3MM(RED)
D410	S2-800-011-000		LED,3MM(RED)
L401	87-005-204-010		COIL,47UH
L402	87-005-204-010		COIL,47UH
L403	87-005-204-010		COIL,47UH
LCD401	S2-700-751-000		DISPLAY LCD
S401	S8-014-310-000		SW,PUSH TACT
S402	S8-014-310-000		SW,PUSH TACT
S403	S8-011-710-000		SWITCH,1P1T
S404	S8-011-710-000		SWITCH,1P1T
S405	S8-011-710-000		SWITCH,1P1T
S406	S8-011-710-000		SWITCH,1P1T
S407	S8-011-710-000		SWITCH,1P1T
S408	S8-011-710-000		SWITCH,1P1T
S409	S8-011-710-000		SWITCH,1P1T
S410	S8-011-710-000		SWITCH,1P1T
S411	S8-011-710-000		SWITCH,1P1T
S412	S8-011-710-000		SWITCH,1P1T
X401	S2-900-631-000		CER,RESO 4.0MHZ
X402	S2-101-011-000		X'TAL 32.768KHZ

CD C.B

C1	87-010-038-010	CAP,E 22-25V
C6	87-010-908-010	CAP,E 220-10V
C9	87-015-694-010	CAP,E 0.47-50V
C10	87-010-264-010	CAP,E 100-10V
C11	87-016-073-080	CAP,E 1-50V

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C12	87-010-908-010		CAP,E 220-10V
C15	87-010-680-010		CAP,E 33-16V
C16	87-015-697-010		CAP,E 3.3-50V
C17	87-016-285-080		CAP,E 47-10V
C24	87-010-908-010		CAP,E 220-10V
C25	87-016-459-080		CAP,E 470-10V
C27	87-010-236-010		CAP,E 1000-10V
C35	87-010-264-010		CAP,E 100-10V
C38	87-010-264-010		CAP,E 100-10V
C44	87-010-908-010		CAP,E 220-10V
C50	87-016-459-080		CAP,E 470-10V
C52	87-016-073-080		CAP,E 1-50V
C60	87-010-480-080		CAP,E 220-16V
C901	87-010-412-080		CAP,E 10-25V
C902	87-010-412-080		CAP,E 10-25V
CON3	S1-2P6-000-800		CONN,ASSY 6P 110MM
L2	87-005-456-080		COIL,100UH
SFR2	SR-V10-480-000		SFR,100K
SFR2	SR-V47-270-000		SFR,4.7K
SW8	S8-013-410-000		SW,LEAF
VR3	SR-V10-480-000		SFR,100K
X1	S2-900-311-000		CER,RESO16.93MHZ

GEQ C.B

C310	87-016-073-080	CAP,E 1-50V
C311	87-010-492-040	CAP,E 0.33-50V
C318	87-015-995-010	CAP,E 4.7-50V
C324	87-015-995-010	CAP,E 4.7-50V
C325	87-016-073-080	CAP,E 1-50V
C326	87-010-492-040	CAP,E 0.33-50V
C329	87-010-480-080	CAP,E 220-16V
VR301	S1-501-271-000	VR,SLIDE 50KB
VR302	S1-500-851-000	VR,SLIDE 50KB-2
VR303	S1-500-851-000	VR,SLIDE 50KB-2
VR304	S1-500-851-000	VR,SLIDE 50KB-2
VR305	S1-500-851-000	VR,SLIDE 50KB-2
VR306	S1-500-851-000	VR,SLIDE 50KB-2

SW C.B

SW101	S8-020-010-000	SW,PUSH
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POWER C.B

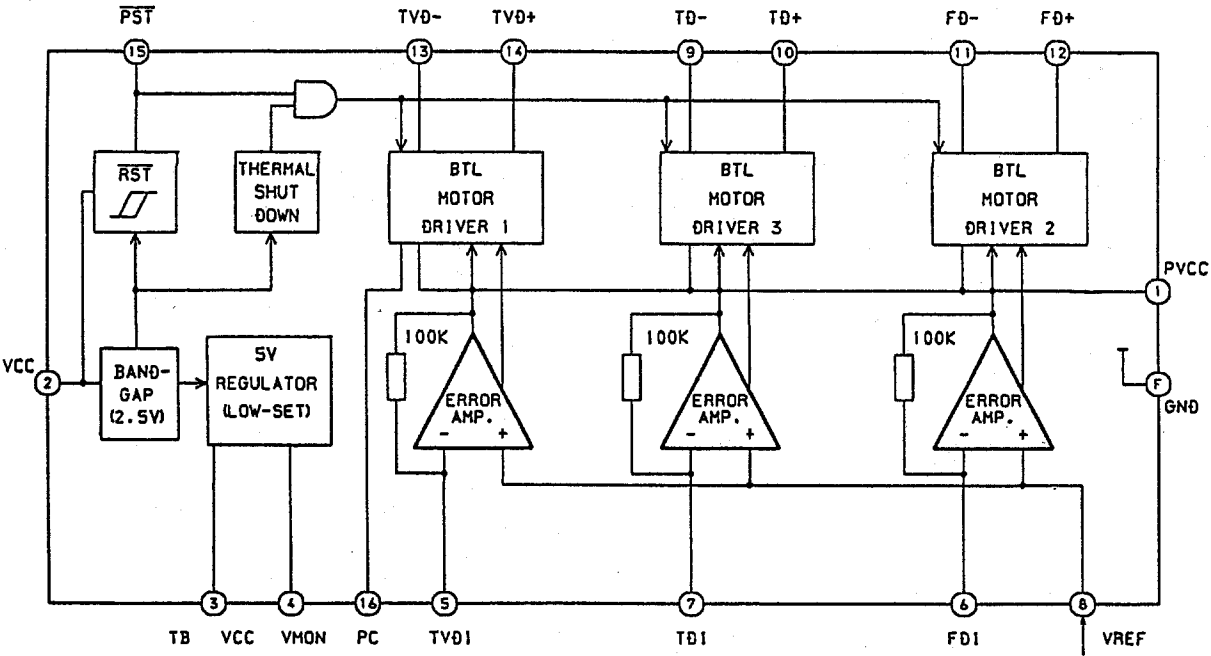
C458	87-016-475-090	CAP,E 3300-25V
△F401	S4-001-510-000	FUSE,3.15A-250V<4U>
△F401	S4-001-610-000	FUSE,3.15A-250V<EXCEPT 4U>

DRIVE C.B

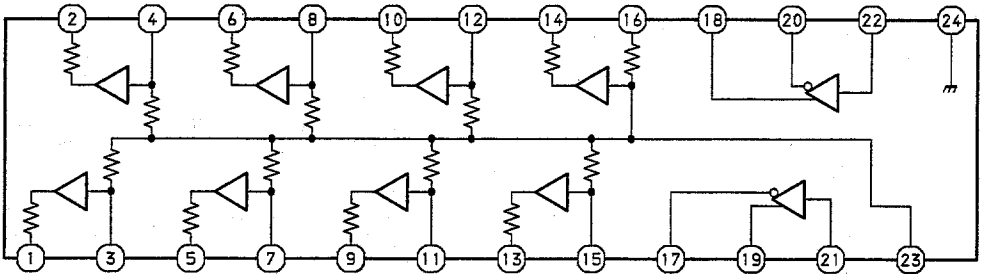
M1	87-045-362-019	MOT,MDN4RA3FTAS1
M2	87-045-363-019	MOT,MDN4RA3ETA1
SW1	87-036-340-019	SW,LEAF LSA-1121

IC BLOCK DIAGRAM

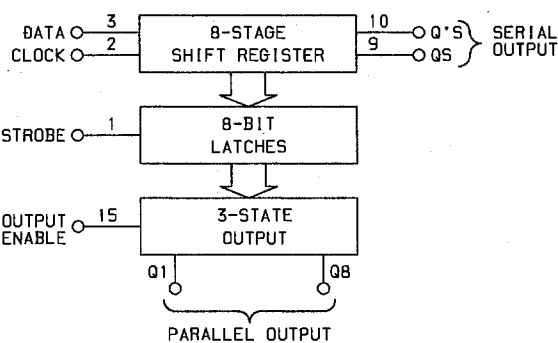
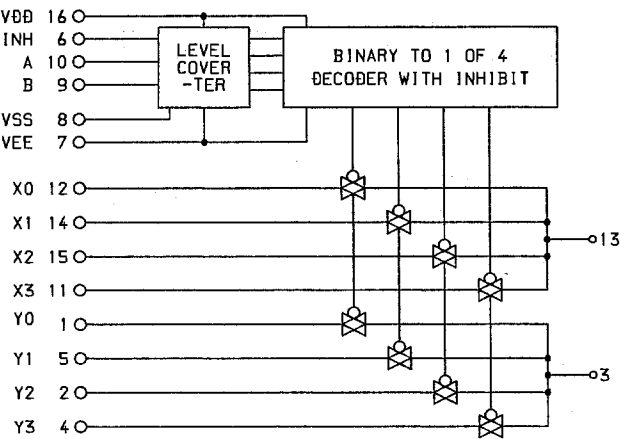
IC, AN8377N



IC, BA3822LS



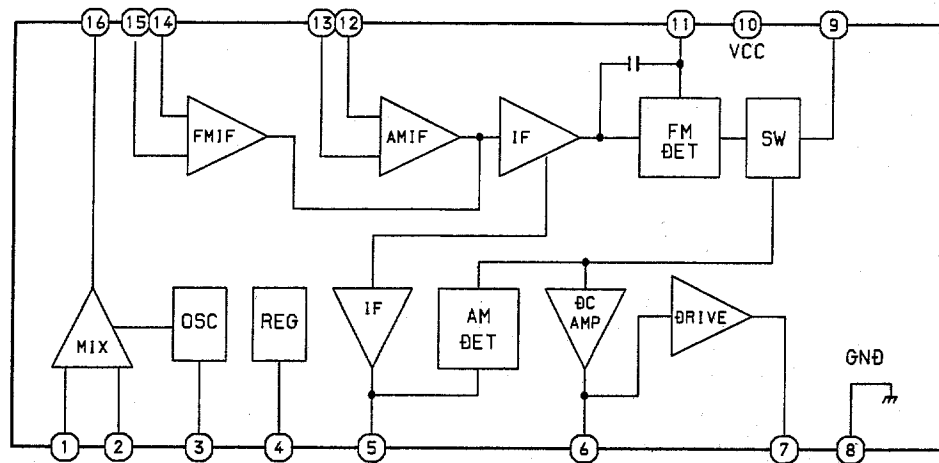
IC, BU4052BC



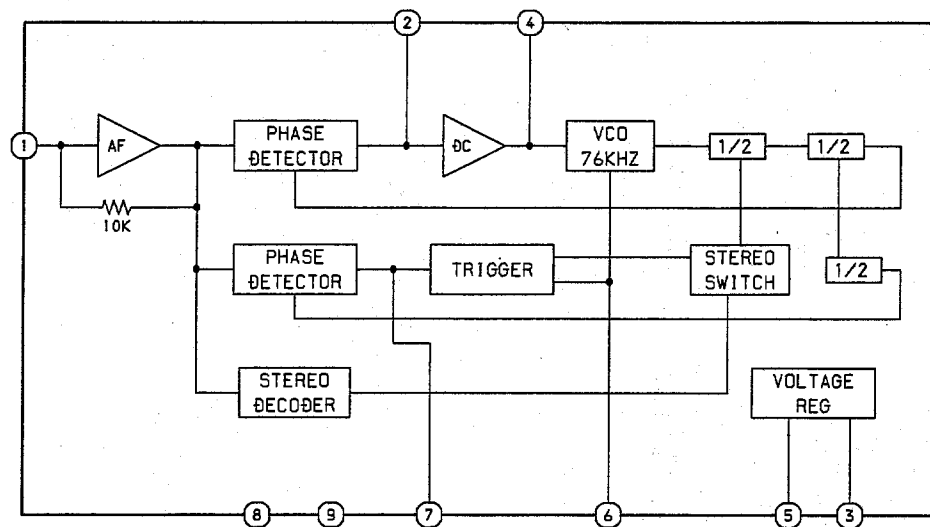
TRUTH TABLE

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

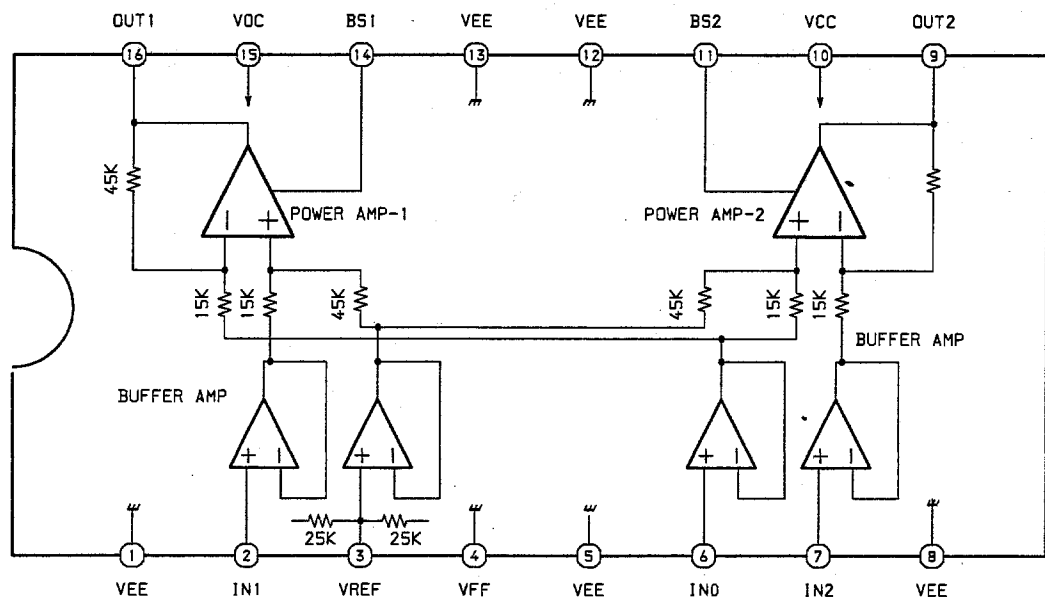
IC, KA22471



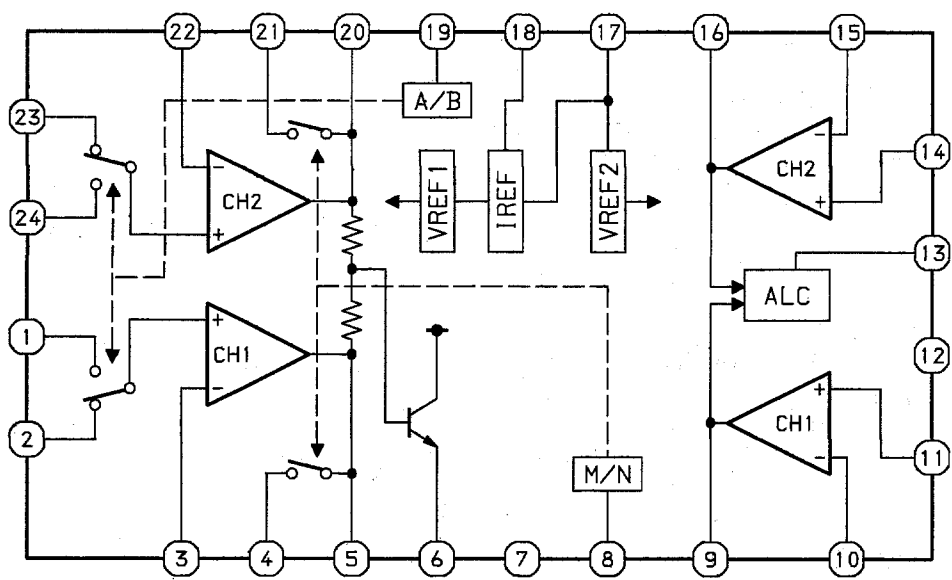
IC, KA2264



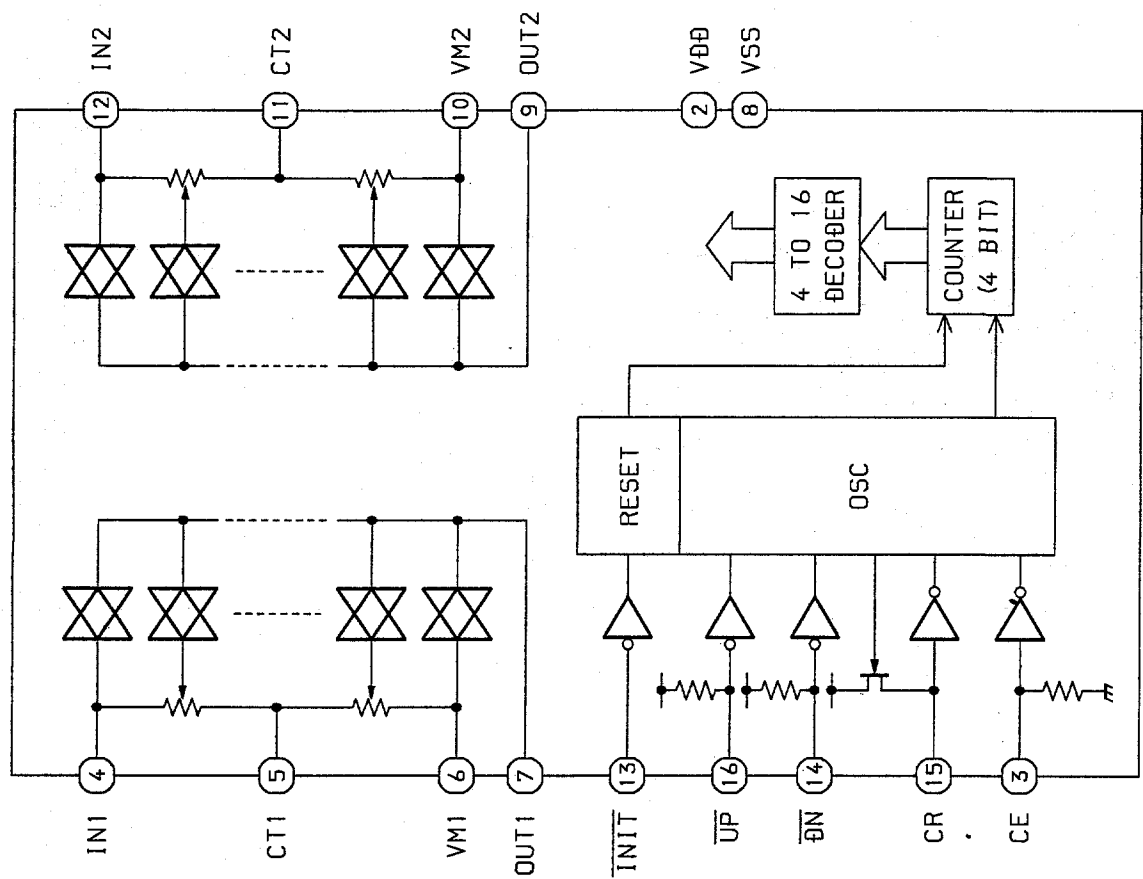
IC, TA8102P

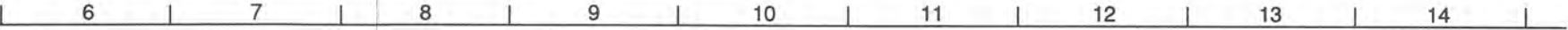


IC, TA8189N

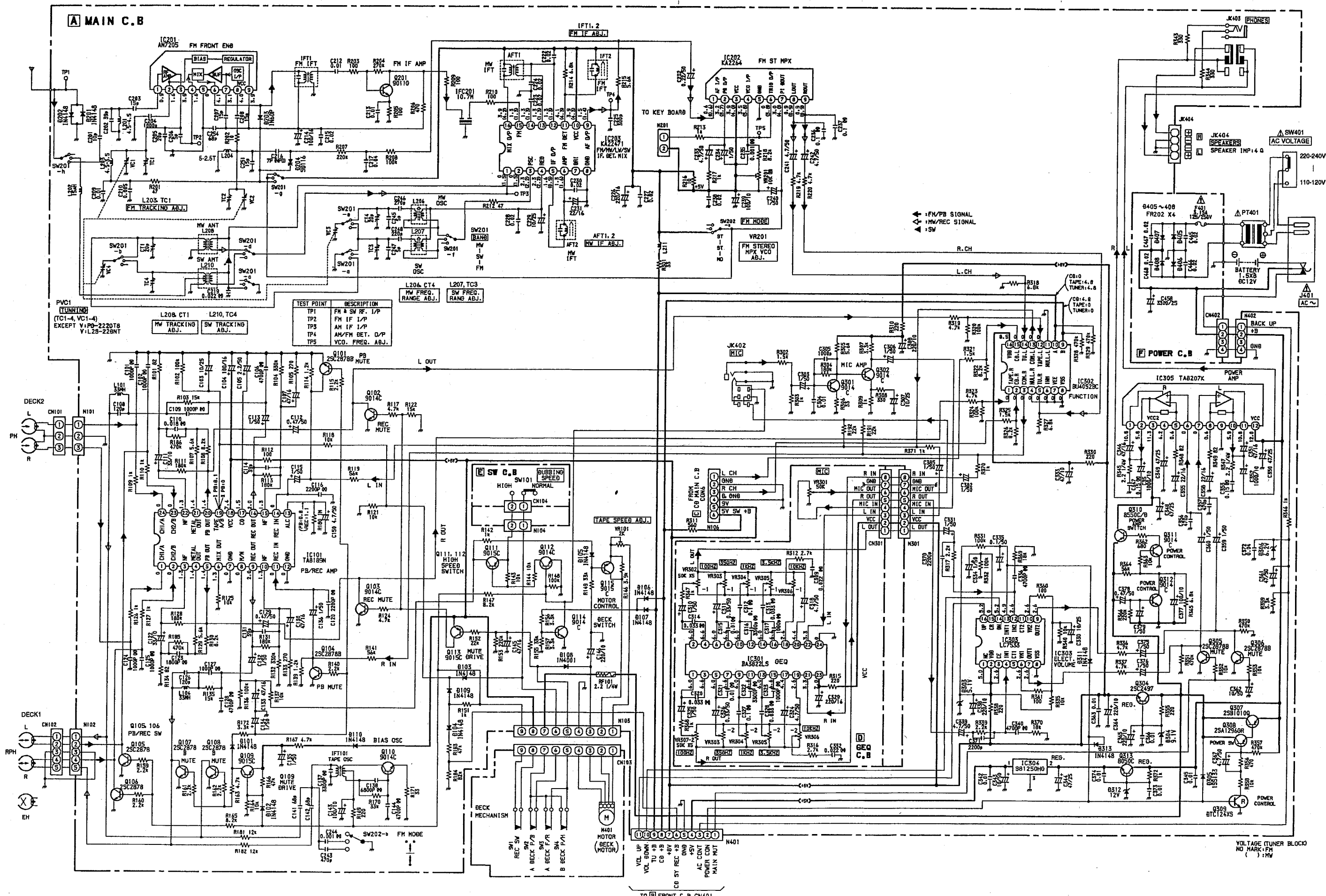


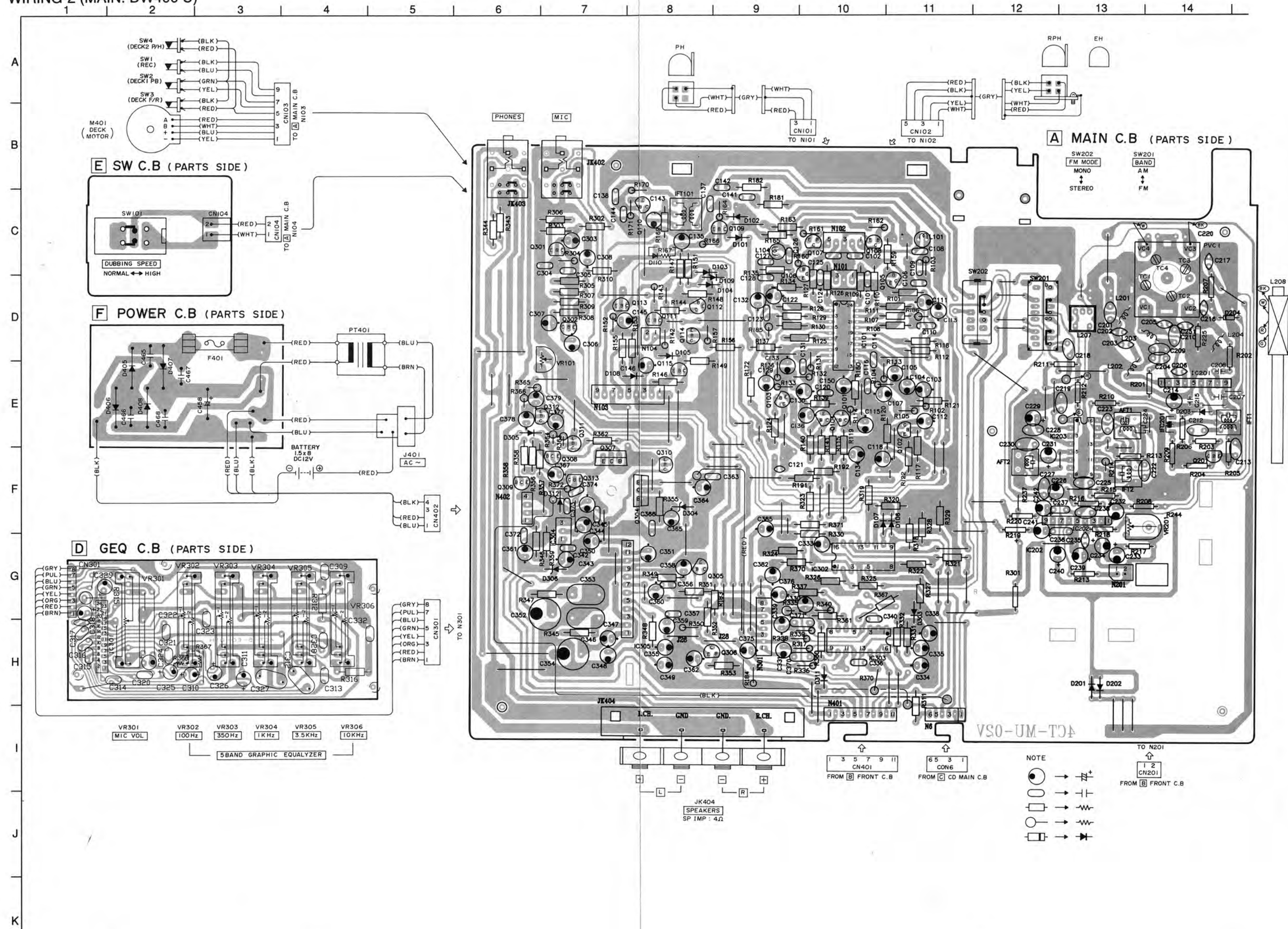
IC, LC7533



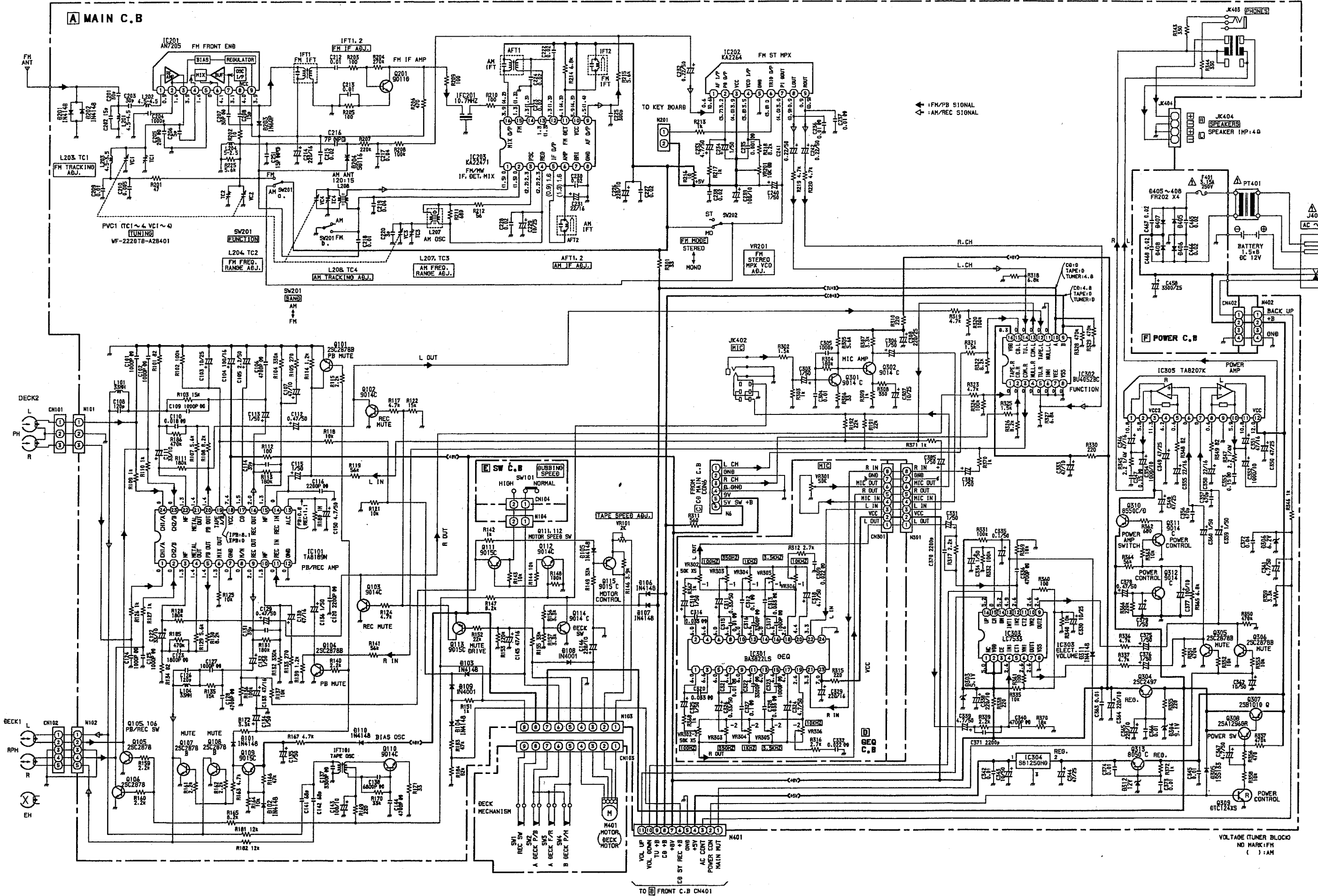


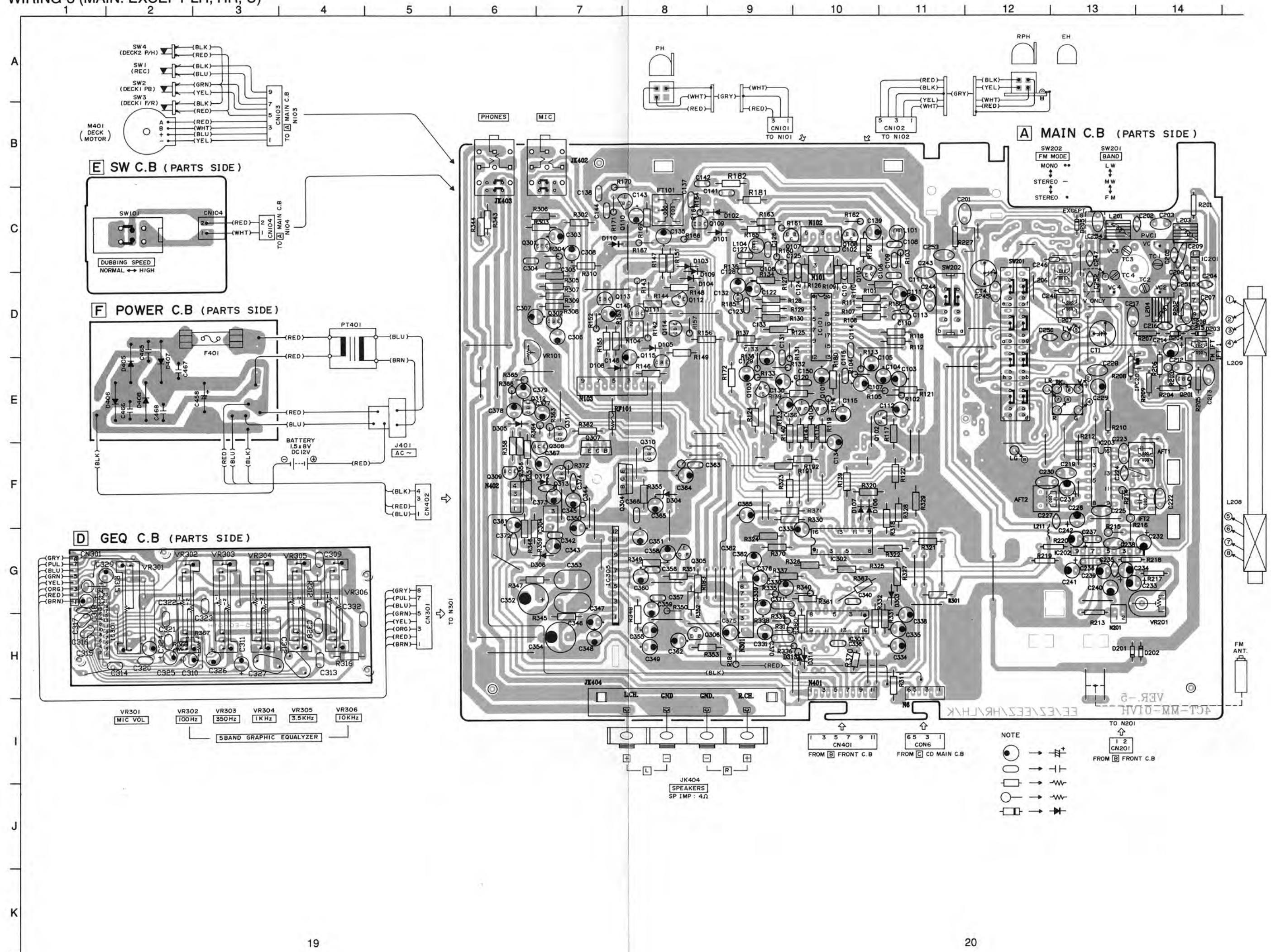
SCHEMATIC DIAGRAM-1 (MAIN: LH, HR)



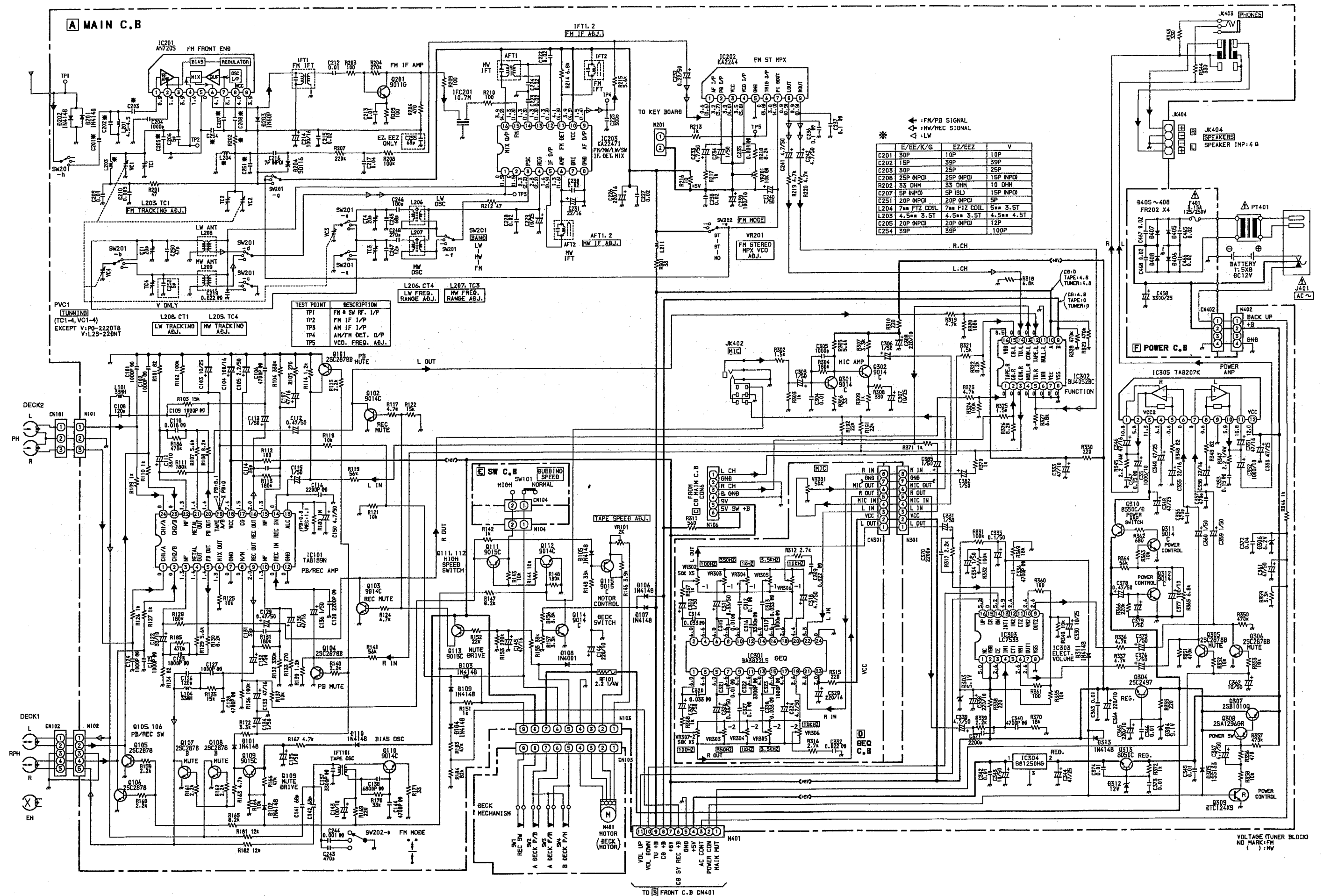


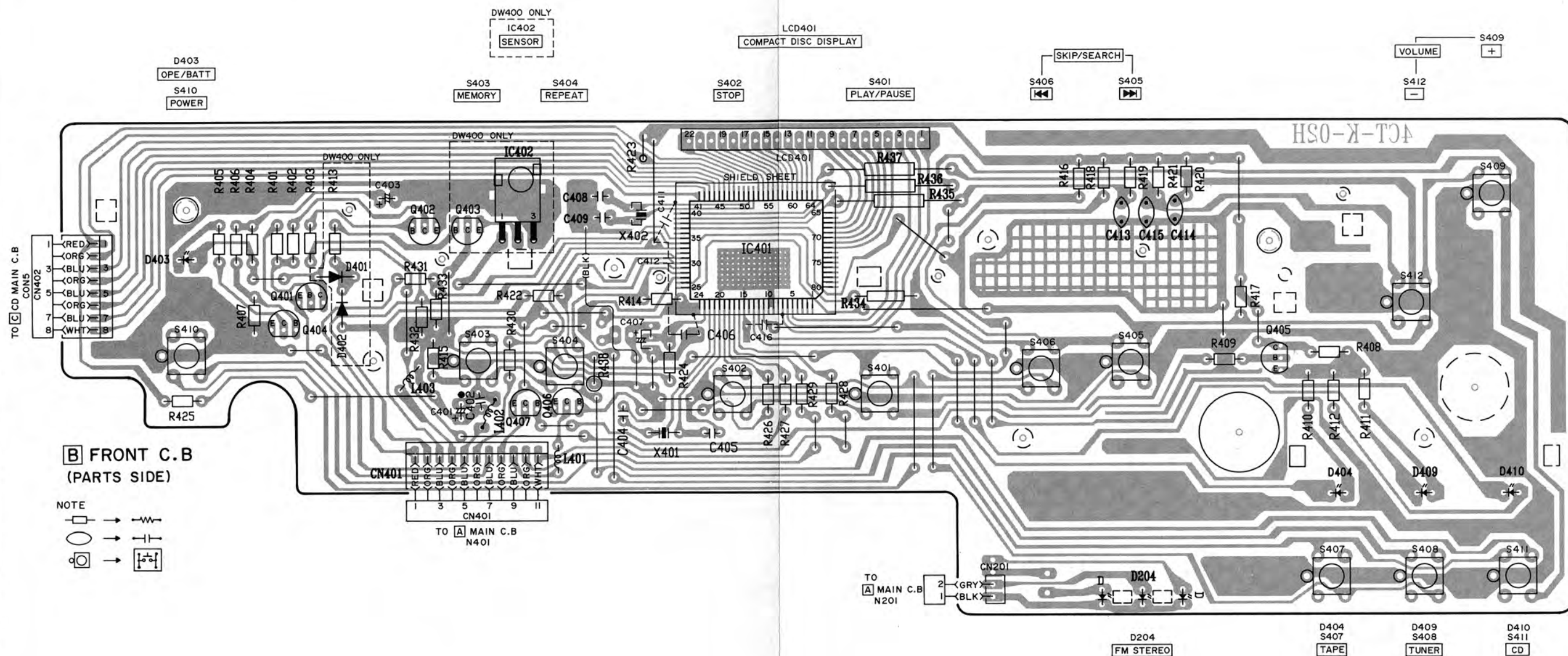
SCHEMATIC DIAGRAM-2 (MAIN: DW400 U)



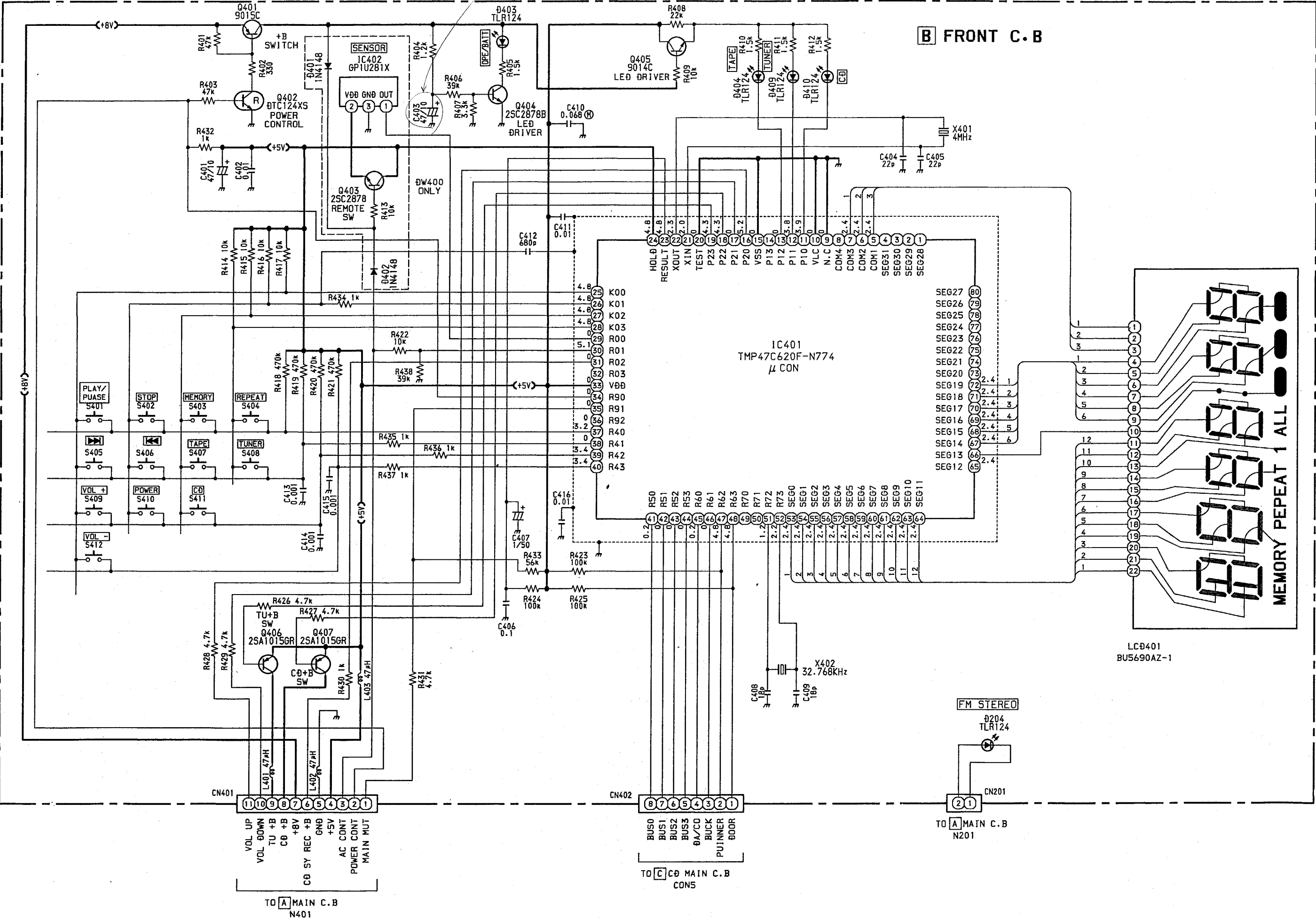


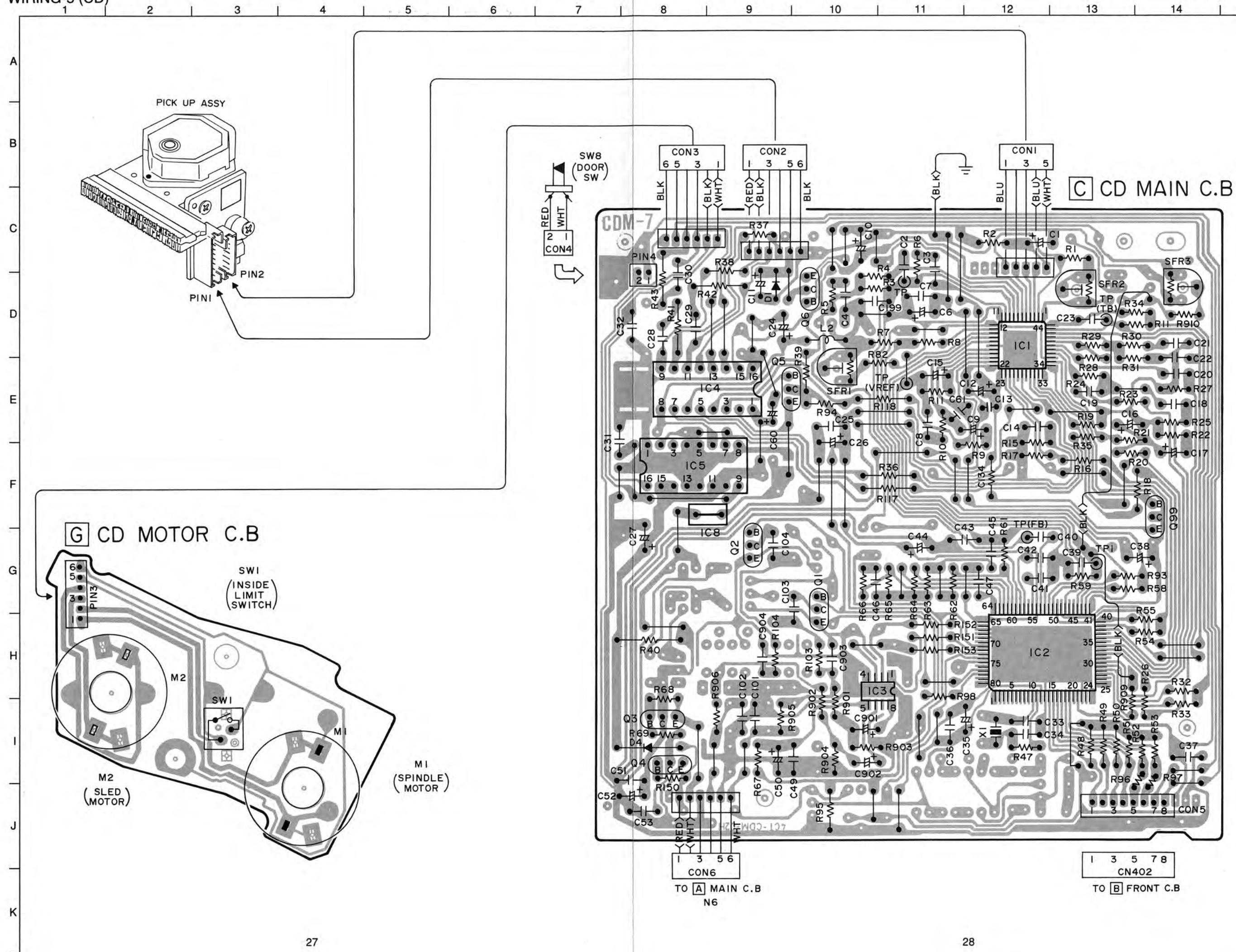
SCHEMATIC DIAGRAM-3 (MAIN: EXCEPT LH, HR, U)



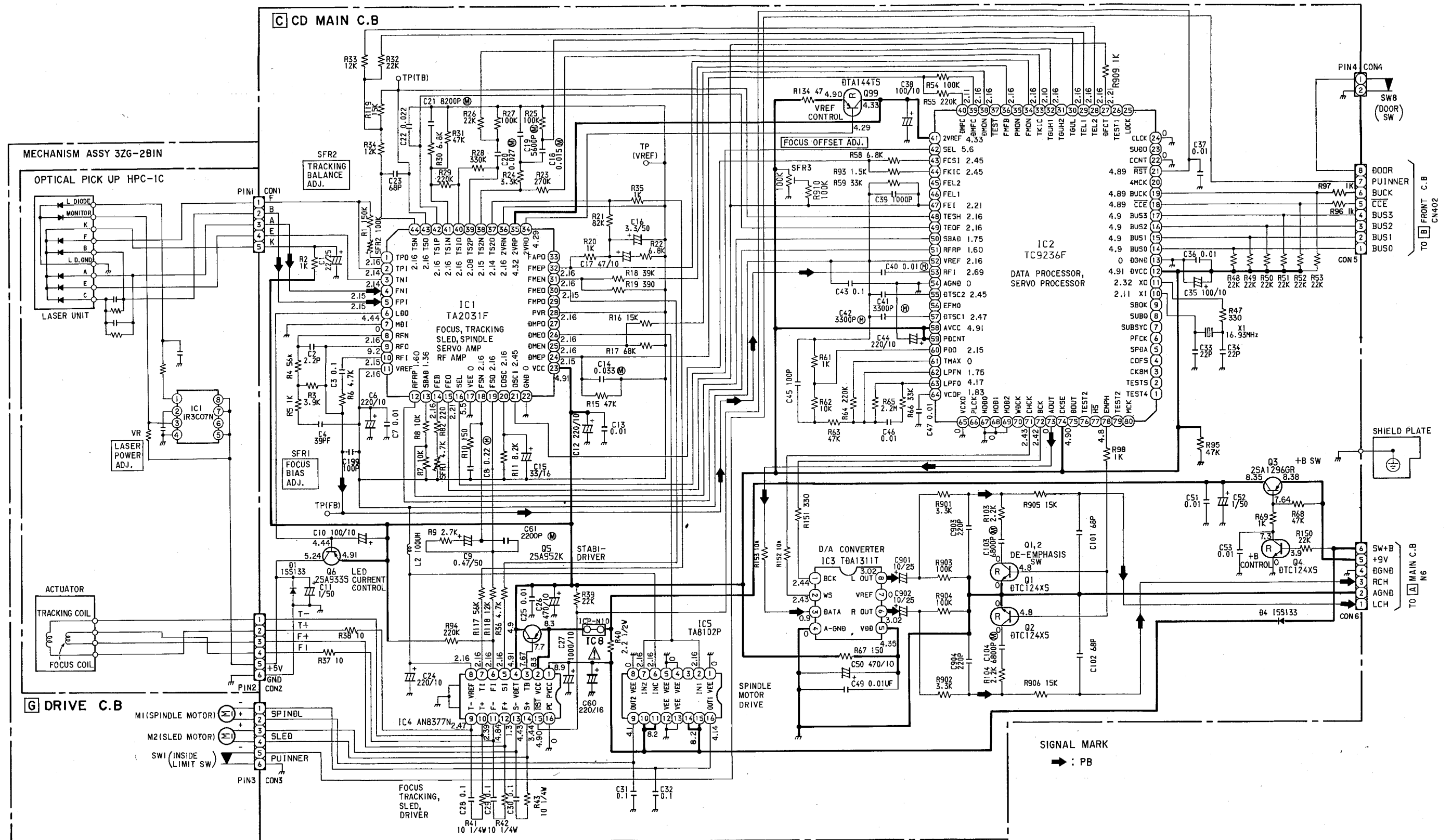


SCHEMATIC DIAGRAM-4 (FRONT)





SCHEMATIC DIAGRAM-5 (CD)



IC DESCRIPTION

IC, TMP47C620F-N774

Pin No.	Pin name	I/O	Description
1	SEG 28	O	Not used.
2	SEG 29	O	Not used.
3	SEG 30	O	Not used.
4	SEG 31	O	Not used.
5	COM 1	O	Common output terminal for LCD.
6	COM 2	O	Common output terminal for LCD.
7	COM 3	O	Common output terminal for LCD.
8	COM 4	O	Not used.
9	N. C	—	Connected to GND.
10	VLC	I	LCD drive voltage setting. Normal: VSS level (GND).
11	P10	O	CD LED (ON="L")
12	P11	O	RADIO LED (ON="L")
13	P12	O	TAPE LED (ON="L")
14	P13	O	Not used.
15	VSS	—	GND.
16	P20	O	Volume up control signal output.
17	P21	O	Volume down control signal output.
18	P22	O	Function select signal (TUNER) output.
19	P23	O	Function select signal (CD) output.
20	TEST	—	Connected to GND.
21	XIN	I	4MHz clock oscillation input.
22	XOUT	O	4MHz clock oscillation output.
23	$\overline{\text{RESET}}$	I	Reset signal input ("L" when reset).
24	HOLD ($\overline{\text{KEO}}$)	I	Hold signal input (+5V).
25	K00	I	Key matrix.
26	K01	I	Key matrix.
27	K02	I	Key matrix.
28	K03	I	Key matrix.
29	R80 ($\overline{\text{INT2}}$)	I	Remote control input.
30	R81 (T2)	I	AC CONT (AC=H, DC=L)
31	R82 (INT1)	I	REC=H
32	R83	O	Not used.
33	VDD	—	Power supply terminal.
34	R90 (SI)	O	POWER ON=L
35	R91 (SO)	O	MUTE ON=H
36	R92 ($\overline{\text{SCK}}$)	O	Not used.
37	R40 (HT2)	O	Key matrix.
38	R41 (HT1)	O	Key matrix.
39	R42 ($\overline{\text{PULSE}}$)	O	Key matrix.
40	R43	O	Key matrix.
41	R50	I/O	Send/receive bus line to/from CD processor.

Pin No.	Pin name	I/O	Description
42	R51	I/O	Send/receive bus line to/from CD processor.
43	R52	I/O	Send/receive bus line to/from CD processor.
44	R53	I/O	Send/receive bus line to/from CD processor.
45	R60	I/O	Command and data processing control I/O.
46	R61	O	Command and data send/receive clock output.
47	R62	I	Detects that the pickup is positioned at the most internal cylinder.
48	R63	I	CD door OPEN/CLOSE detection. close=L
49	R70	I	Not used.
50	R71 (WTO)	I	Not used.
51	R72 (XIN)	I	Clock oscillation for display.
52	R73 (XOUT)	O	Clock oscillation for display.
53~65	SEG 0~SEG 12	O	Segment output terminal for LCD.
66	SEG 13	O	Not used.
67~72	SEG 14~SEG 19	O	Segment output terminal for LCD.
73~80	SEG 20~SEG 28	O	Not used.

IC, TA2031F-3

Pin No.	Pin name	I/O	Description
1	TPO	O	Sub beam I-V amplifier (TP AMP) output
2	TPI	I	Sub beam I-V amplifier (TP AMP) input
3	TNI	I	Sub beam I-V amplifier (TN AMP) input
4	FNI	I	Main beam I-V amplifier (FN AMP) input
5	FPI	I	Main beam I-V amplifier (FP AMP) input
6	LDO	O	Laser diode amp (LD AMP) output
7	MDI	I	Monitor photo diode amp (MD AMP) input
8	RFN	I	RF amp (RF AMP) inverted input
9	RFO	O	RF amp (RF AMP) output
10	RFI	I	Input to RF ripple signal generator
11	VREF	O	Reference voltage output (+2.1 V)
12	RFRP	O	RF ripple signal output
13	SBAD	O	Disc error detected signal output
14	FEB	I	Input from the focus error balance adjustment
15	FEO	O	Focus error amp (FE AMP) output
16	SEL	I	Analog switch control signal input
17	VEE	—	Ground pin (GND)
18	FSN	I	Focus output amp (FS AMP) inverted input
19	FSO	O	Focus output amp (FS AMP) output
20	COSC	O	External capacitor to the focus search signal generator is connected
21	OSCI	I	Control signal input to the built-in current source of the focus search signal generation
22	GND	—	GND
23	VCC	—	Power supply pin (+5 V)
24	DMEP	I	Disc motor amp (DM AMP) positive phase input
25	DMEN	I	Disc motor amp (DM AMP) inverted phase input
26	DMEO	O	Disc motor amp (DM AMP) output
27	DMPO	O	Disc motor drive amplifier (DM AMP) output
28	PVR	I	Reference voltage input to drive amplifier
29	FMPO	O	Feed Motor Amplifier (FMP AMP) output
30	FMEO	O	Feed Motor Drive Amplifier (FMP AMP) output
31	FMEN	I	Feed motor amp (FM AMP) inverted phase input
32	FMEP	I	Feed motor amp (FM AMP) positive phase input
33	FAPO	O	Focus actuator drive amplifier (FAP AMP) output
34	2VRO	O	2V REF amplifier (2V REF AMP) output
35	2VRP	I	2V REF amplifier (2V REF AMP) positive phase input
36	2VRN	I	2V REF amplifier (2V REF AMP) inverted phase input
37	TS2O	O	Tracking servo amp 2 (TS2 AMP) output
38	TS2N	I	Tracking servo amp 2 (TS2 AMP) inverted polarity input
39	TS2P	I	Tracking servo amp 2 (TS2 AMP) positive phase input
40	TS1O	O	Tracking servo amp 1 (TS1 AMP) output
41	TS1N	I	Tracking servo amp 1 (TS1 AMP) inverted phase input

Pin No.	Pin name	I/O	Description
42	TS1P	I	Tracking servo amp 1 (TS1 AMP) positive phase input
43	TSO	O	Tracking output amp 1(TS AMP) output
44	TSN	I	Tracking servo amp (TS AMP) inverted phase input

IC, TC9236F

Pin No.	Pin Name	I/O	Description
1	TEST4	I	Test terminal. Normally "H" or open. (Not used.)
2	TEST5	I	Test terminal. Normally "H" or open. (Not used.)
3	CK8M	O	8M clock output terminal. (Not used.)
4	COFS	O	Correction sytem frame frequency signal output terminal. 7.35 kHz (Not used.)
5	SPDA	O	Processor status signal output terminal. Correction/discrimination data, memory buffer capacity, etc. (Not used.)
6	PFCK	O	Playback system frame frequency signal output terminal. 7.35 kHz (Not used.)
7	SUBSYC	O	Subcode sync signal output terminal. (Not used.)
8	SUBQ	O	Subcode Q data output terminal. (Not used.)
9	SBOK	O	Subcode Q data CRC check data output terminal. OK when "H". (Not used.)
10	XI	I	Crystal oscillator connection terminal.
11	XO	O	
12	DVCC	—	Digital power voltage terminal. (+5 V)
13	DGND	—	Digital GND terminal.
14	BUS0	I/O	Command and data send/receive I/O terminal.
15	}		
17	BUS3		
18	CCE	I	Chip enable signal input terminal for command and data send/recieve. Bus line active when "L".
19	BUCK	I	Command and data send/receive clock input terminal.
20	4MCK	O	4M clock output terminal. 4.2366 MHz (Not used.)
21	RST	I	Reset input terminal. Internal system reset when "L".
22	CCNT	I	Subcode Q data control bit update inhibition signal input terminal. Update inhibited when "H". (GND)
23	SUBO	O	Subcode P - W output terminal. (Not used.)
24	CLCK	I	Subcode P - W data read-out clock input terminal.
25	LOCK	O	Lock status output terminal. "L" when sync pattern signal in EFM signal is not detected within 17 ms in runaway detection. (Not used.)
26	TEST1	I	Test terminal. Normally "H" or open. (Not used.)
27	DFCT	O	Defect detection signal output terminal. VREF when a defect signal is detected; Normally HiZ. (Not used.)
28	TEL2	O	Tracking gain adjustment analog switch output terminal. VREF or HiZ.
29	TEL1		
30	TGUL	O	Analog switch output terminal for switching the low range phase compensator of the tracking servo loop. HiZ (gain up) when shock signal is detected; VREF when gain up.
31	TGUH2	O	Analog switch output terminal for switching the middle and high range phase compensator of the tracking servo loop. HiZ (gain up) when shock signal is detected; normally VREF. TGUH1 is used when playing back in normal mode; TGUH2 when playing back in high speed mode. (Pin 32 is not used.)
32	TGUH1		
33	TKIC	O	Tracking actuator kick signal output terminal. Kicked to an external cylinder when "H"; an internal cylinder when "L".
34	FMON	O	Feed servo ON/OFF analog switch output terminal. (Pin 35 is not used.)
35	FMON		

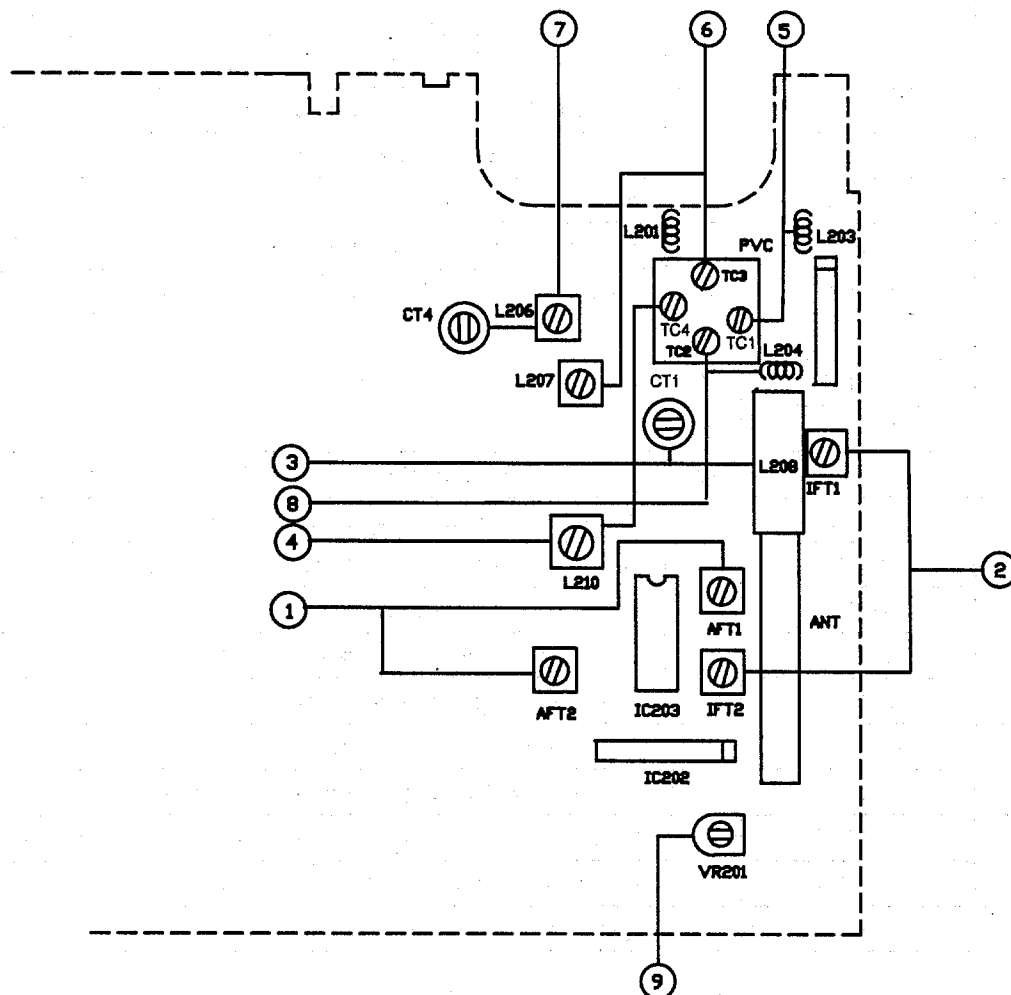
Feed servo	FMON	FMON
ON	HiZ	VREF
OFF	VREF	HiZ

Pin No.	Pin Name	I/O	Description																
36	FMFB	O	Feed motor FWD/BWD operation control signal output terminal. Feeds to an external cylinder when "H"; feeds to an internal cylinder when "L".																
37	TEST	I	Test terminal. Normally "H" or open. (Not used.)																
38	DMON	O	Analog switch output terminal for switching the gain of the disk motor drive																
39	DMFC	O	Disk motor CLV servo AFC signal output terminal. <table><tr><td>Command</td><td>DMFC output</td><td>Operation</td></tr><tr><td>DMFK</td><td>H</td><td>Motor accelerated</td></tr><tr><td>DNSV</td><td>PWM</td><td>CLV servo ON</td></tr><tr><td>DMBK</td><td>L</td><td>Motor decelerated</td></tr><tr><td>DMOFF</td><td>VREF</td><td>CLV servo OFF</td></tr></table>	Command	DMFC output	Operation	DMFK	H	Motor accelerated	DNSV	PWM	CLV servo ON	DMBK	L	Motor decelerated	DMOFF	VREF	CLV servo OFF	
Command	DMFC output	Operation																	
DMFK	H	Motor accelerated																	
DNSV	PWM	CLV servo ON																	
DMBK	L	Motor decelerated																	
DMOFF	VREF	CLV servo OFF																	
40	DMPC	O	Disk motor CLV servo APC signal output terminal.																
41	2VREF	I	Two times reference voltage input terminal. (VREF x 2)																
42	SEL	O	Servo mode indication signal output terminal. <table><tr><td>SEL</td><td>LD ON/OFF</td><td>Focus servo</td><td>Operation mode</td></tr><tr><td>L</td><td>OFF</td><td>ON</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>Normal PLAY etc., (Focus servo ON: FOK)</td></tr></table>	SEL	LD ON/OFF	Focus servo	Operation mode	L	OFF	ON	LD OFF	HiZ	ON	OFF	Focus search	H	ON	ON	Normal PLAY etc., (Focus servo ON: FOK)
SEL	LD ON/OFF	Focus servo	Operation mode																
L	OFF	ON	LD OFF																
HiZ	ON	OFF	Focus search																
H	ON	ON	Normal PLAY etc., (Focus servo ON: FOK)																
43	FCSI	O	Focus actuator drive signal output terminal in focus search mode. <table><tr><td>Command</td><td>FKIC output</td><td>Operation</td></tr><tr><td>FGASR</td><td>H</td><td>Lens distant from disk</td></tr><tr><td>FGSS</td><td>L</td><td>Lens near disk</td></tr><tr><td>Others</td><td>HiZ</td><td>than focus search</td></tr></table>	Command	FKIC output	Operation	FGASR	H	Lens distant from disk	FGSS	L	Lens near disk	Others	HiZ	than focus search				
Command	FKIC output	Operation																	
FGASR	H	Lens distant from disk																	
FGSS	L	Lens near disk																	
Others	HiZ	than focus search																	
44	FKIC	O	Focus actuator drive signal output terminal in focus gain adjustment mode. (Not used.) <table><tr><td>Command</td><td>FKIC output</td><td>Operation</td></tr><tr><td>FGASR</td><td>H</td><td>Lens distant from disk</td></tr><tr><td>FGSS</td><td>L</td><td>Lens near disk</td></tr><tr><td>Other</td><td>HiZ</td><td>Other than focus gain adjustment</td></tr></table>	Command	FKIC output	Operation	FGASR	H	Lens distant from disk	FGSS	L	Lens near disk	Other	HiZ	Other than focus gain adjustment				
Command	FKIC output	Operation																	
FGASR	H	Lens distant from disk																	
FGSS	L	Lens near disk																	
Other	HiZ	Other than focus gain adjustment																	
45	FEL2	O	Focus gain adjustment analog switch output terminal. (Not used.)																
46	FEL1																		
47	FEI	I	Focus error signal input terminal.																
48	TESH	I	Analog switch input terminal for sample-holding of the tracking error signal.																
49	TEOF	O	Analog switch input terminal for tracking servo ON/OFF. VFEF when tracking servo is OFF.																
50	SBAD	I	Sub-beam add signal input terminal.																
51	RFRP	I	RF ripple signal input terminal.																
52	VREF	I	Reference voltage input terminal. (+2.2 V)																
53	RFI	I	RF signal input terminal.																
54	AGND	—	Analog GND terminal.																
55	DTSC2	O	EFM signal negative-phase output terminal for data slice control.																
56	EFMO	O	EFM signal monitor output terminal. (Not used.)																
57	DTSC1	O	EFM signal positive-phase output terminal for data slice control.																
58	AVCC	—	Analog power voltage terminal. (+5 V)																
59	PDCNT	I	PDO output control terminal. PDO output is involuntarily set to HiZ when "L".																
60	PDO	O	Output terminal for phase difference signal between EFM and PLCK signals.																

Pin No.	Pin Name	I/O	Description	
61	TMAX	O	TMAX signal output terminal. HiZ in system clock.	
			TMAX cycle	TMAX output
			Longer than specified cycle	L
			Shorter than specified cycle	L
			Specified cycle	HiZ
62	LPFN	I	LPF amplifier negative-phase input terminal for PLL.	
63	LPFO	O	LPF amplifier output terminal for PLL.	
64	VCOF	I	VCO filter terminal.	
65	VCOX	I	External VCO clock input terminal. (GND)	
66	PLCK	O	Playback data read clock output terminal. (Not used.)	
67	MOD0	I	Internal operation mode setting input terminal. (GND)	
68	MOD1			
68	MOD2			
70	WDCK	O	Word clock output terminal. Normally 88.2 kHz. (Not used.)	
71	CHCK	O	Channel clock output terminal. Normally 44.1 kHz.	
72	BCK	O	Bit clock output terminal. Normally 1.4112 MHz.	
73	AOUT	O	Audio data output terminal.	
74	CKSE	I	Internal clock selection terminal. (+5 V)	
75	DOUT	O	Digital OUT output terminal. (Not used.)	
76	TEST2	I	Test terminal. Normally "H" or open. (Not used.)	
77	HS	O	High-speed monitor output terminal. High-speed mode when "L". (Not used.)	
78	EMPH	O	Emphasis ON/OFF indication signal output terminal. Emphasis ON when "H".	
79	TEST3	I	Test terminal. Normally "H" or open. (Not used.)	
80	MCK	O	Master clock output terminal. (Not used.)	

ELECTRICAL ADJUSTMENT (TUNER SECTION)

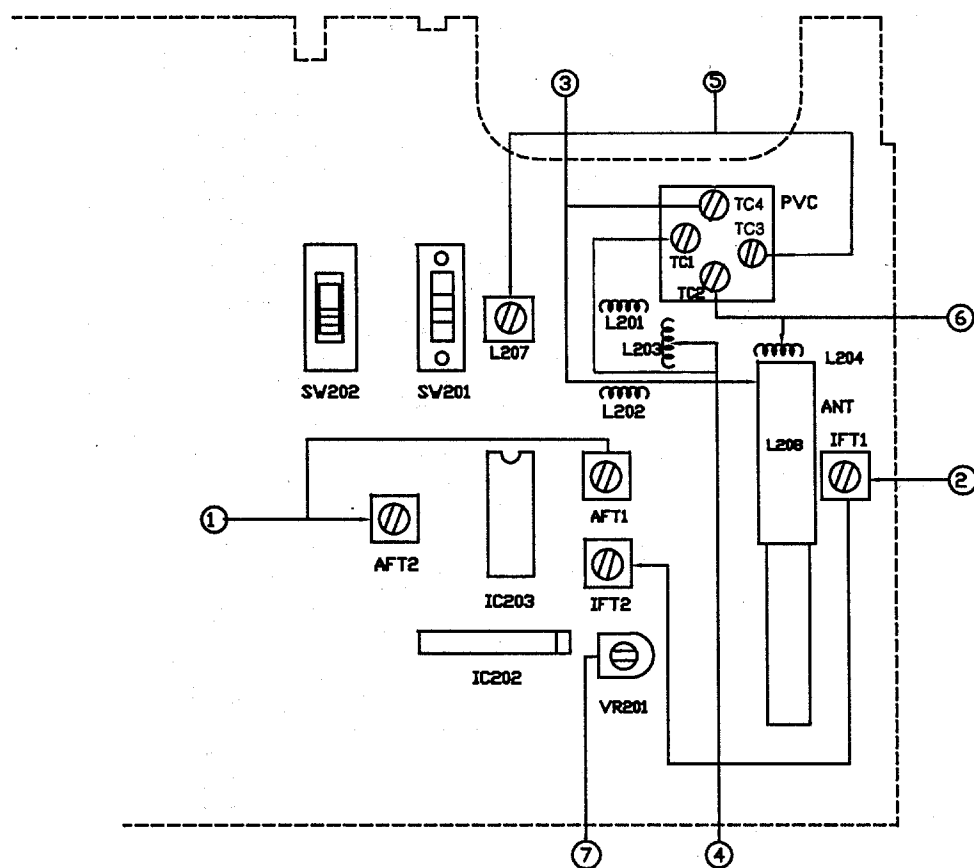
LH, HR MODELS:



<TUNER SECTION>

- | | |
|---|--|
| 1. AM IF Adjustment
AFT1, AFT2 455KHz | 6. SW Frequency Range Adjustment
L207 HR: 3.8MHz
LH: 3.8MHz |
| 2. FM IF Adjustment
IFT1, IFT2 10.7MHz | TC3 12.5MHz |
| 3. MW Tracking Adjustment
L208 600KHz
CT3 1400KHz | 7. MW Frequency Range Adjustment
L206 HR: 515KHz
LH: 517KHz |
| 4. SW Tracking Adjustment
L210 4MHz
TC4 12MHz | CT4 HR: 1650KHz
LH: 1750KHz |
| 5. FM Tracking Adjustment
L203 90MHz
TC1 106MHz | 8. FM Frequency Range Adjustment
L204 87MHz
TC2 109MHz |
| | 9. FM Stereo MPX VCO Adjustment
VR201 76KHz |

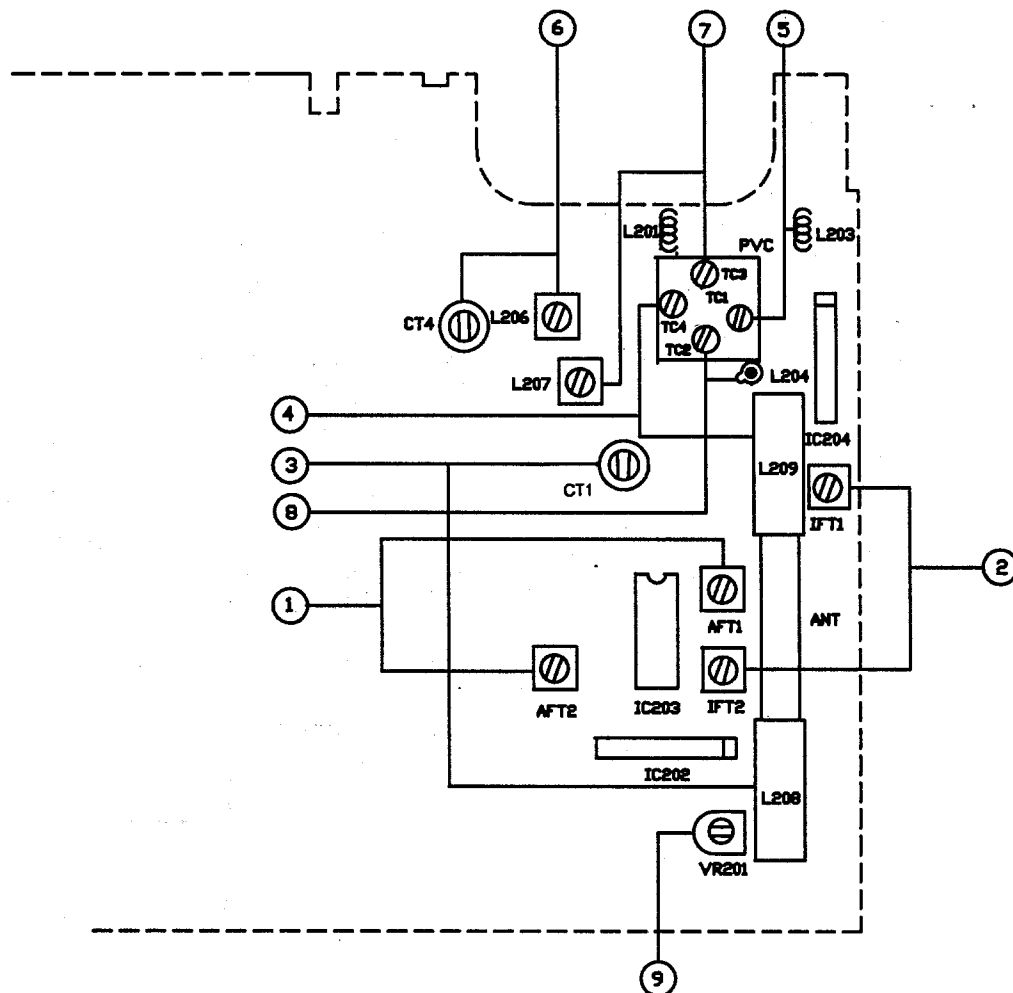
U MODEL:



<TUNER SECTION>

- | | |
|---|--|
| 1. AM IF Adjustment
AFT1, AFT2 455KHz | 5. AM Frequency Range Adjustment
L207 517KHz
TC3 1750KHz |
| 2. FM IF Adjustment
IFT1, IFT2 10.7MHz | 6. FM Frequency Range Adjustment
L204 87MHz
TC2 109MHz |
| 3. AM Tracking Adjustment
L208 600KHz
TC4 1400KHz | 7. FM Stereo MPX VCD Adjustment
VR201 76KHz |
| 4. FM Tracking Adjustment
L203 90MHz
TC1 106MHz | |

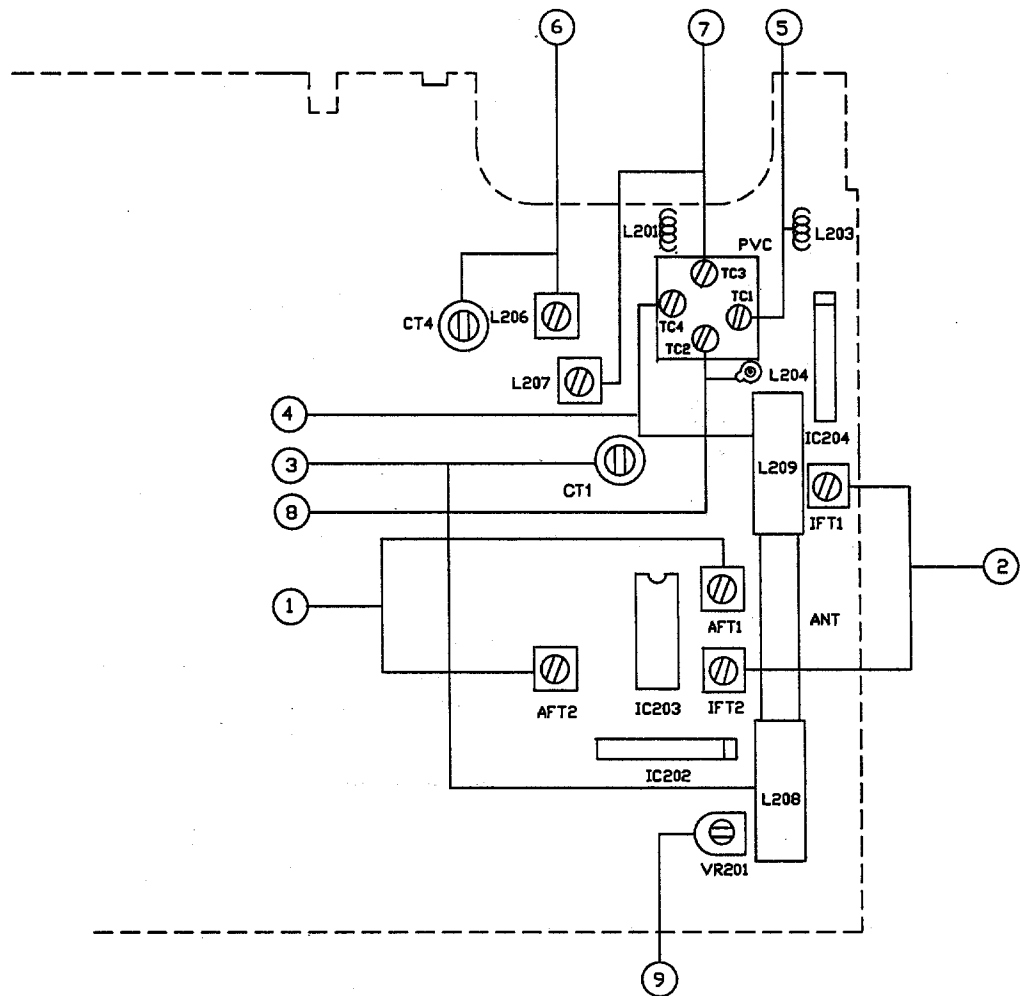
EE, K, G MODELS:



<TUNER SECTION>

- | | |
|---|--|
| 1. AM IF Adjustment
AFT1, AFT2 465KHz | 6. LW Frequency Range Adjustment
L206 145KHz
CT4 295KHz |
| 2. FM IF Adjustment
IFT1, IFT2 10.7MHz | 7. MW Frequency Range Adjustment
L207 515KHz
TC3 1635KHz |
| 3. LW Tracking Adjustment
L208 160KHz
CT1 270KHz | 8. FM Frequency Range Adjustment
L204 87.4MHz
TC2 108.3MHz |
| 4. MW Tracking Adjustment
L209 600KHz
TC4 1400KHz | 9. FM Stereo MPX VCO Adjustment
VR201 76KHz |
| 5. FM Tracking Adjustment
L203 90MHz
TC1 106MHz | |

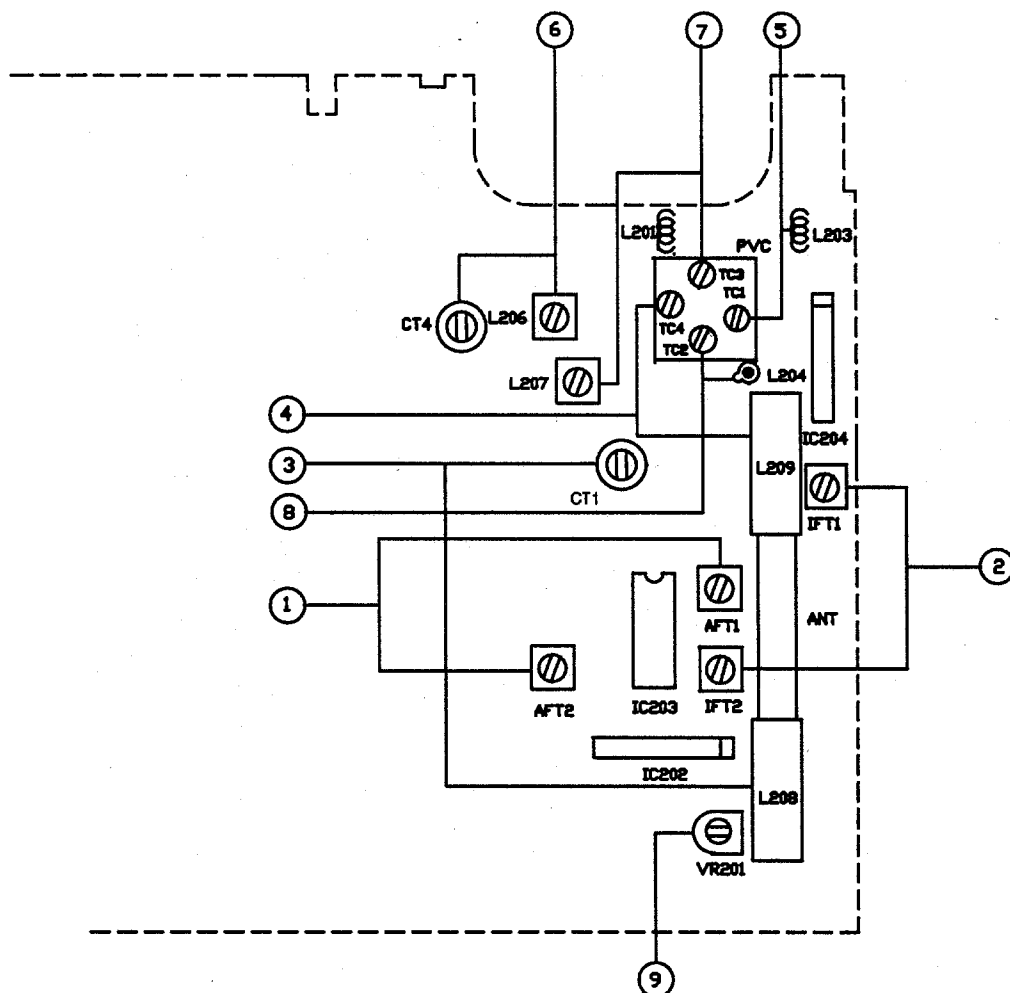
V MODEL:



<TUNER SECTION>

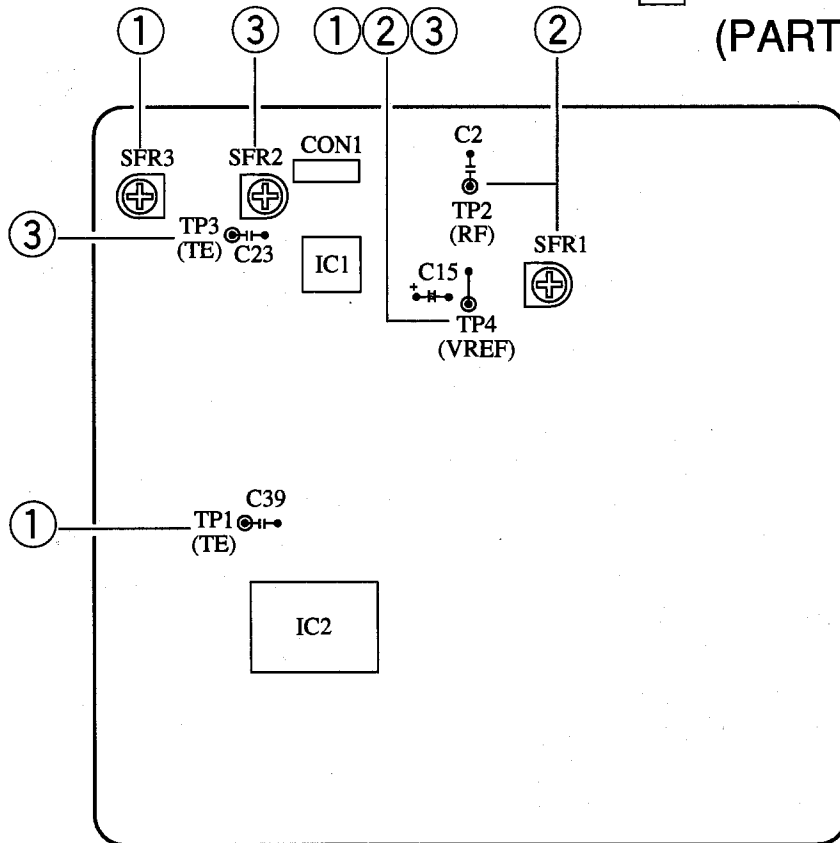
- | | |
|--|---|
| <p>1. AM IF Adjustment
AFT1,AFT2 465KHz</p> <p>2. FM IF Adjustment
IFT1,IFT2 10.7MHz</p> <p>3. LW Tracking Adjustment
L208 160KHz
CT1 270KHz</p> <p>4. MW Tracking Adjustment
L209 600KHz
TC4 1400KHz</p> <p>5. FM Tracking Adjustment
L203 65MHz
TC1 108MHz</p> | <p>6. LW Frequency Range Adjustment
L206 145KHz
CT4 295KHz</p> <p>7. MW Frequency Range Adjustment
L207 515KHz
TC3 1635KHz</p> <p>8. FM Frequency Range Adjustment
L204 64MHz
TC2 109MHz</p> <p>9. FM Stereo MPX VCD Adjustment
VR201 76KHz</p> |
|--|---|

EEZ, EZ MODELS:

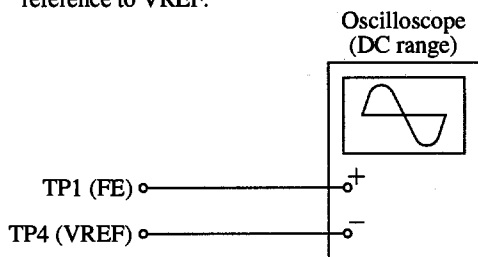


<TUNER SECTION>

- | | |
|--|--|
| <p>1. AM IF Adjustment
AFT1, AFT2 465KHz</p> <p>2. FM IF Adjustment
IFT1, IFT2 10.7MHz</p> <p>3. LW Tracking Adjustment
L208 160KHz
CT3 270KHz</p> <p>4. MW Tracking Adjustment
L209 600KHz
TC4 1400KHz</p> <p>5. FM Tracking Adjustment
L203 90MHz
TC1 106MHz</p> | <p>6. LW Frequency Range Adjustment
L206 145KHz
CT4 295KHz</p> <p>7. MW Frequency Range Adjustment
L207 515KHz
TC3 1635KHz</p> <p>8. FM Frequency Range Adjustment
L204 87MHz
TC2 108.5MHz +/- 0.5MHz</p> <p>9. FM Stereo MPX VCO Adjustment
VR201 76KHz</p> |
|--|--|

C CD MAIN C.B
(PARTS SIDE)

1. Focus offset Adjustment

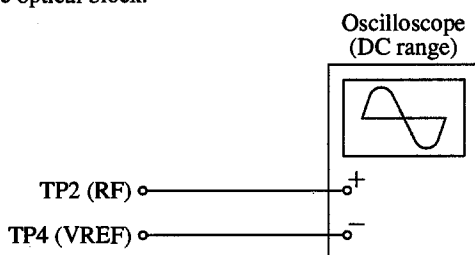
- ① Connect an oscilloscope between test points TP1 (FE) and TP4 (VREF).
- ② Turn on the main power to the CD player.
- ③ Adjust SFR3 so that the offset level is ± 0 mV with reference to VREF.



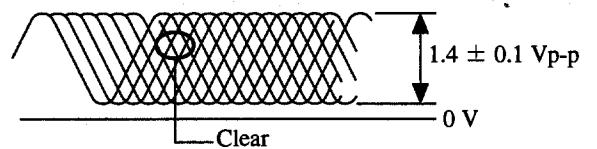
Note: • Connect a probe (10: 1) of the oscilloscope to a test point.

2. Focus Bias Adjustment

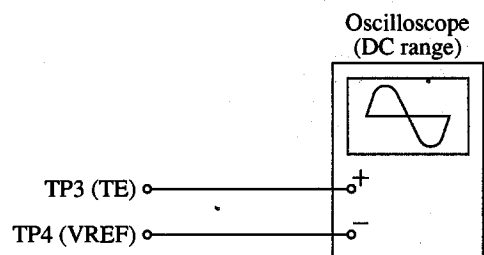
Make the focus bias adjustment when replacing and repairing the optical block.



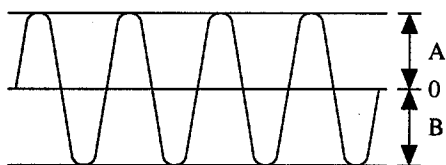
- ① Connect an oscilloscope to test points TP2 (RF) and TP4 (VREF).
- ② Turn on the power switch.
- ③ Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- ④ Adjust SFR1 so that the level of RF wave to be maximum and clear.



VOLT/DIV: 50mV
TIME/DIV: 0.5 μ S

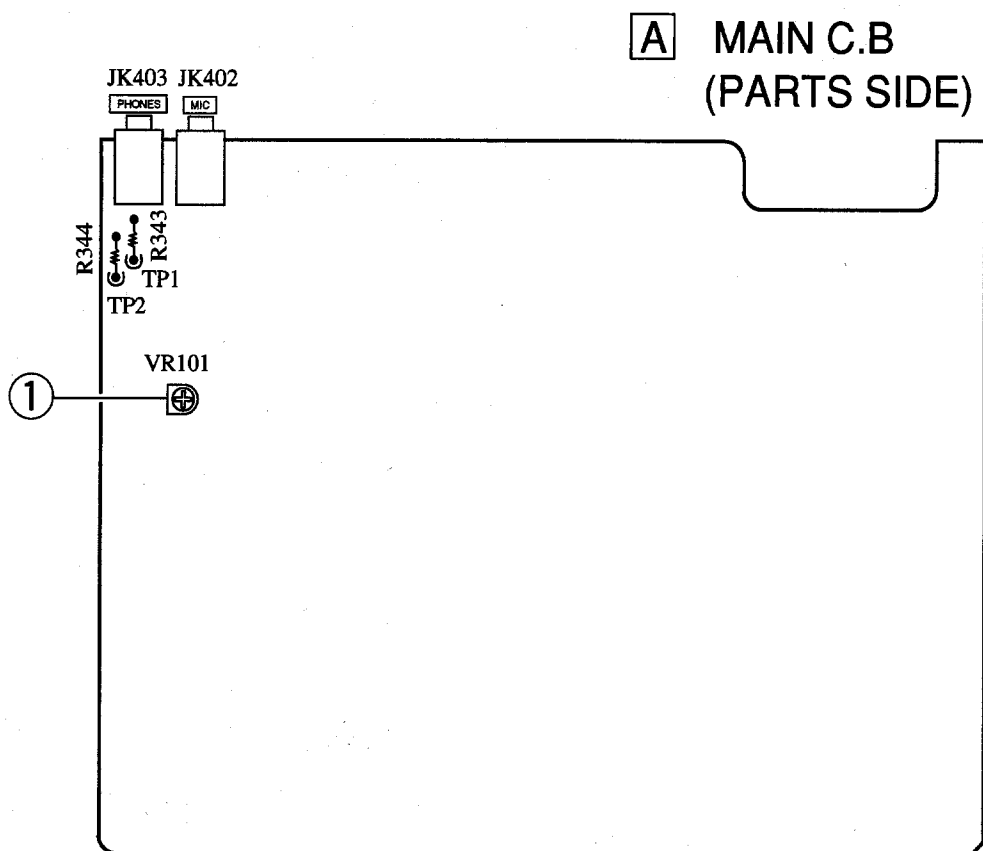
3. Tracking Balance Adjustment


- ① Connect an oscilloscope to test points TP3 (TE) and TP4 (VREF).
- ② Turn on the power switch.
- ③ Insert test disc TCD-782 (YEDS-18) and press the PLAY (▶) button.
- ④ Turn the SFR3 fully clockwise.
- ⑤ Adjust SFR2 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.



VOLT/DIV: 20mV
TIME/DIV: 1mS

(DECK SECTION)



1. Tape Speed Adjustment

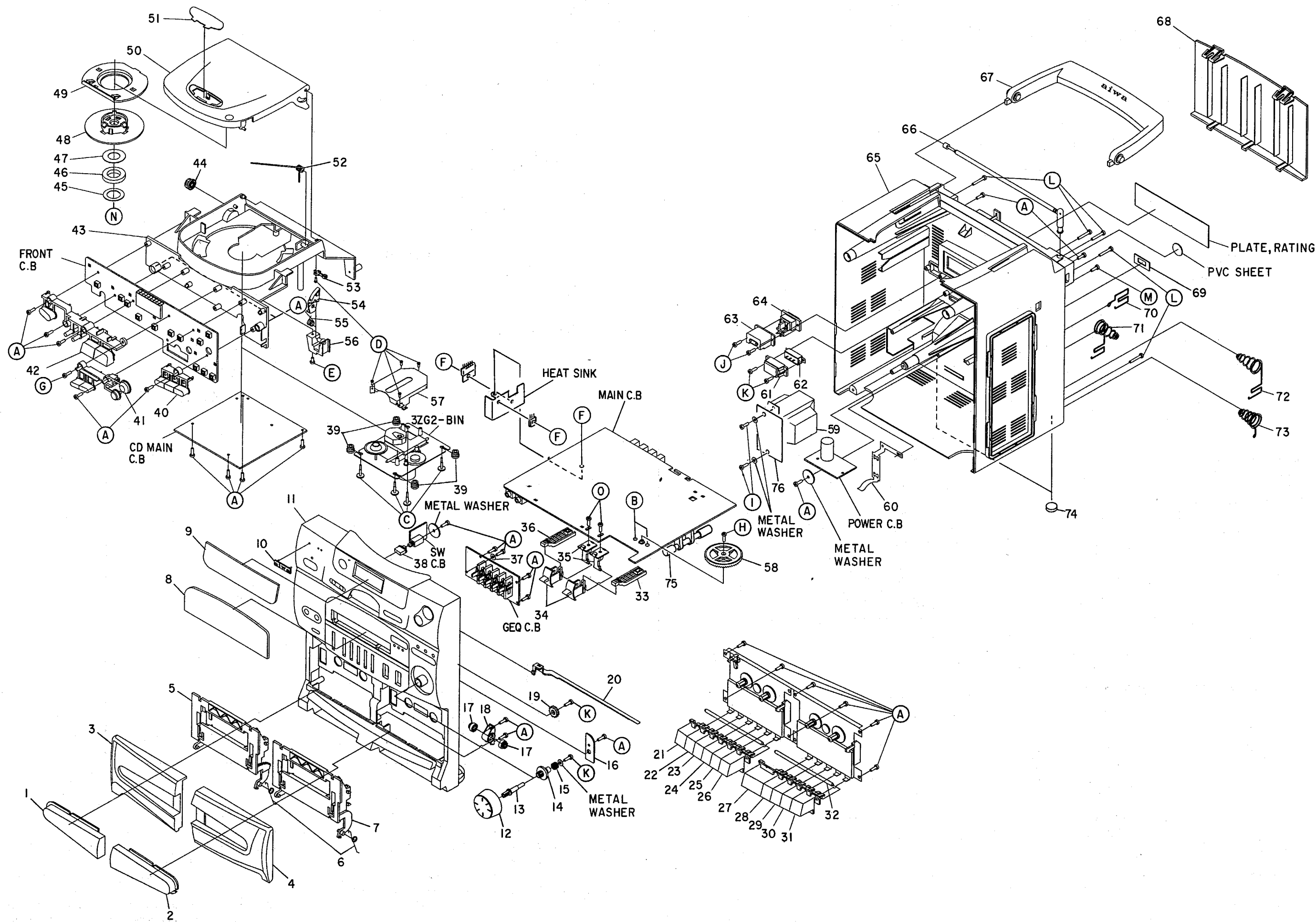
- Condition:
- Test tape: TTA-100 (TTA-111S)
 - Test point: TP1, 2
 - Adjustment location: VR101

Method: Play back the test tape and adjust so that the frequency counter reads 3kHz.

2. Azimuth Adjustment

- Condition:
- Test tape: TTA-320 (TTA-113B, TTC-152)
 - Test point: TP1, 2
 - Adjustment location: Azimuth adjustment screw.

Method: Play back the test tape and adjust so that the waveform on the oscilloscope is maximum.

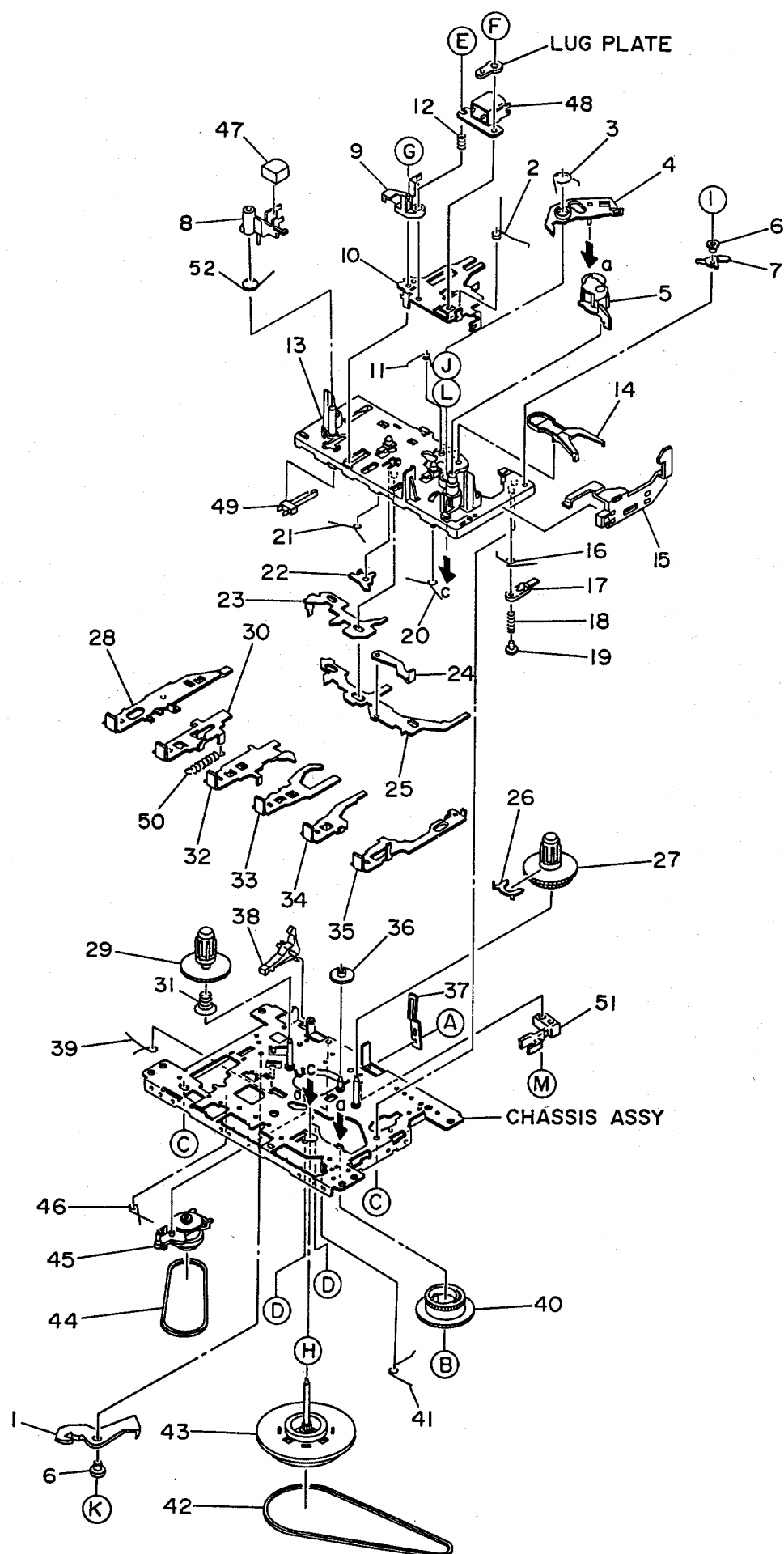


MECHANICAL PARTS LIST 1 / 2

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	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
1	S1-029-240-101		LENS, DOOR CASS(L)	48	S1-024-150-102		CHUCK, CD(BLK)<4U>
2	S1-029-250-101		LENS, DOOR CASS(R)	48	S1-030-280-101		CHUCK, CD(BLK)<EXCEPT 4U>
3	S1-029-260-101		DOOR, CASS(L)	49	S1-028-980-101		HLD, CHUCK CD(BLK)
4	S1-029-270-101		DOOR, CASS(R)	50	S1-028-960-101		DOOR, CD(BLK)
5	S1-029-280-101		BRKT, DOOR CASS(L)BLK	51	S1-029-550-101		LENS, DOOR CD
6	S2-009-620-101		SPR, DOOR CASS	52	S2-009-540-101		SPR, DOOR CD
7	S1-029-290-101		BRKT, DOOR CASS(R)BLK	53	S8-013-410-000		SW, LEAF (SW8)
8	S1-029-230-101		LENS, DIAL<4U>	54	S1-027-430-102		LOCKER, DOOR CD
8	S1-029-230-401		LENS, DIAL<EXCEPT 4U, 4LH, 4HR, 3LH, 3HR>	55	S2-009-210-101		SPR, LOCKER
8	S1-029-230-201		LENS, DIAL<4LH, 3LH>	56	S1-027-420-102		HLD, LOCKER
8	S1-029-230-301		LENS, DIAL<4HR, 3HR>	57	S2-005-492-000		COVER, CD(BLK)
9	S1-029-220-101		LENS, DISPLAY<EXCEPT 3K, 3EZ, 3EEZ, 3LH, 3HR>	58	S1-029-380-101		GEAR, VC(BLK)
9	S1-029-220-201		LENS, DISPLAY<3K, 3EZ, 3EEZ, 3LH, 3HR>	59	S9-029-310-000		PT, EI-57 (PT401)<4G>
10	S1-023-360-101		BADGE AIWA	59	S9-028-910-000		PT, EI-57
11	S1-029-030-302		CAB, FRONT<4LH, 4HR>				(PT401)<3K, 3EZ, 3EEZ, 4EEZ, 4EZ, 4EE, 4V>
11	S1-029-030-602		CAB, FRONT<3K, 3EZ, 3EEZ>	59	S9-028-310-000		PT, EI-57 (PT401)<4LH, 4HR, 3LH, 3HR>
11	S1-029-030-502		CAB, FRONT<4EEZ, 4EZ, 4EE, 4V, 4G>	59	S9-028-010-000		PT, EI-57 (PT401)<4U>
11	S1-029-030-402		CAB, FRONT<3LH, 3HR>	60	S2-009-550-101		PLATE, SPR ANT
11	S1-029-030-101		CAB, FRONT<4U>	61	S1-031-020-101		COVER, SWITCH VOLTAGE<4LH, 4HR, 3LH, 3HR>
12	S1-029-090-101		KNOB, TUNING	62	S8-024-310-000		SW, SLIDE 1P1T (SW401)<4LH, 4HR, 3LH, 3HR>
13	S1-029-360-101		SHAFT, TUN(BLK)	63	S1-023-450-101		COVER, AC SOCKET
14	S1-029-370-101		GEAR, TUNING(BLK)	64	S2-3C0-041-000		AC, SOCKET (J401)<4U>
15	S2-009-970-101		SPR, COIL GEAR TUNING	64	S2-3C0-007-100		SOCKET AC (J401)<EXCEPT 4U>
16	S1-029-590-101		COVER, POINTER	65	S1-029-040-101		CAB, REAR
17	S1-023-140-101		GEAR, DAMP (BLK)	66	SA-N00-291-000		ANT, ROD
18	S1-023-030-101		DAMPING GEAR HOUS(BLK)	67	S1-029-020-101		HANDLE
19	S1-029-390-101		GEAR, IDLER	68	S1-029-320-101		DOOR, BAT
20	S1-029-400-101		DIAL, POINTER	69	S1-016-851-000		PLATE SELECTOR VOLTAGE
21	S1-029-210-101		KEY, REC				<EXCEPT 4LH, 4HR, 3LH, 3HR>
22	S1-029-110-101		KEY, PLAY (L)	69	S1-030-910-301		PLATE, SELECTOR VOLTAGE<4LH, 4HR, 3LH, 3HR>
23	S1-029-150-101		KEY, REW (L)	70	S2-009-690-101		SPR, BAT(+)
24	S1-029-130-101		KEY, FF (L)	71	S2-009-680-101		SPR, BAT(+/-)
25	S1-029-170-101		KEY, S/E (L)	72	S2-009-610-101		SPK, BAT(+/-)
26	S1-029-190-101		KEY, POUSE (L)	73	S2-008-320-101		SPR, BAT(-)
27	S1-029-120-101		KEY, PLAY (R)	74	S1-013-601-000		FOOT, RUBBER (11.7-1.6)
28	S1-029-160-101		KEY, REW (R)	75	S1-800-051-000		BAR, FERRITE 10-100<EXCEPT 4U, 4LH, 4EE, 4HR>
29	S1-029-140-101		KEY, FF (R)	75	S1-800-031-000		BAR, FERRITE 10-80<4U, 4LH, 4HR, 3LH, 3HR>
30	S1-029-180-101		KEY, S/E (R)	76	S2-009-980-101		COVER, SHIELD
31	S1-029-200-101		KEY, PAUSE (R)	A	87-751-096-410		VT2+3-10
32	S2-009-640-101		SHAFT, KEY CASS	B	87-233-072-010		KH/MS 2.6-L5MM
33	S1-029-350-101		ADAPTOR, SW (BLK)	C	SC-D00-040-100		SCREW, CD 2.6-L17MM
34	S1-029-330-101		KNOB, BAND	D	87-351-551-310		VT2+2-5
35	S1-029-340-101		BRKT, KNOB BAND	E	87-348-094-010		PH/TS 3-L6MM
36	S1-030-320-101		SW, ADAPTOR (BLK)	F	87-342-094-410		UT2+3-L6MM
37	87-078-044-010		FW, 3.2-8-0.8	G	87-357-097-210		VT2+3-12
38	S1-029-100-101		KNOB, SPEED HIGH	H	87-067-189-010		U+2.6-L8MM
39	S3-004-152-000		CUSHION CD	I	SB-T00-070-500		UT2+3.5-L12MM
40	S1-029-070-101		KNOB, FUNCTION	J	87-353-076-210		VT2+2.6-12MM
41	S1-029-060-101		KNOB, VR/CD	K	87-751-074-410		VT2+2.6-8MM
42	S1-029-050-101		KNOB, POWER/CD	L	87-751-102-410		VT2+3-20
43	S1-028-970-101		BRKT, CD (BLK)	M	87-342-099-410		UT2+3-L15MM
44	S1-027-550-101		GEAR, DOOR CD (BLK)	N	87-253-033-210		BH/MS 2-L4MM
45	S1-016-882-000		COVER, MAGNET	O	87-342-073-210		VT2+2.6-6MM
46	S2-005-131-000		MAGNET, DOOR CD		S1-015-171-000		COVER, SWITCH POWER<4LH, 4HR, 3LH, 3HR>
47	S2-009-650-201		MAGENT, PLATE				

TAPE MECHANISM EXPLODED VIEW 1 / 2

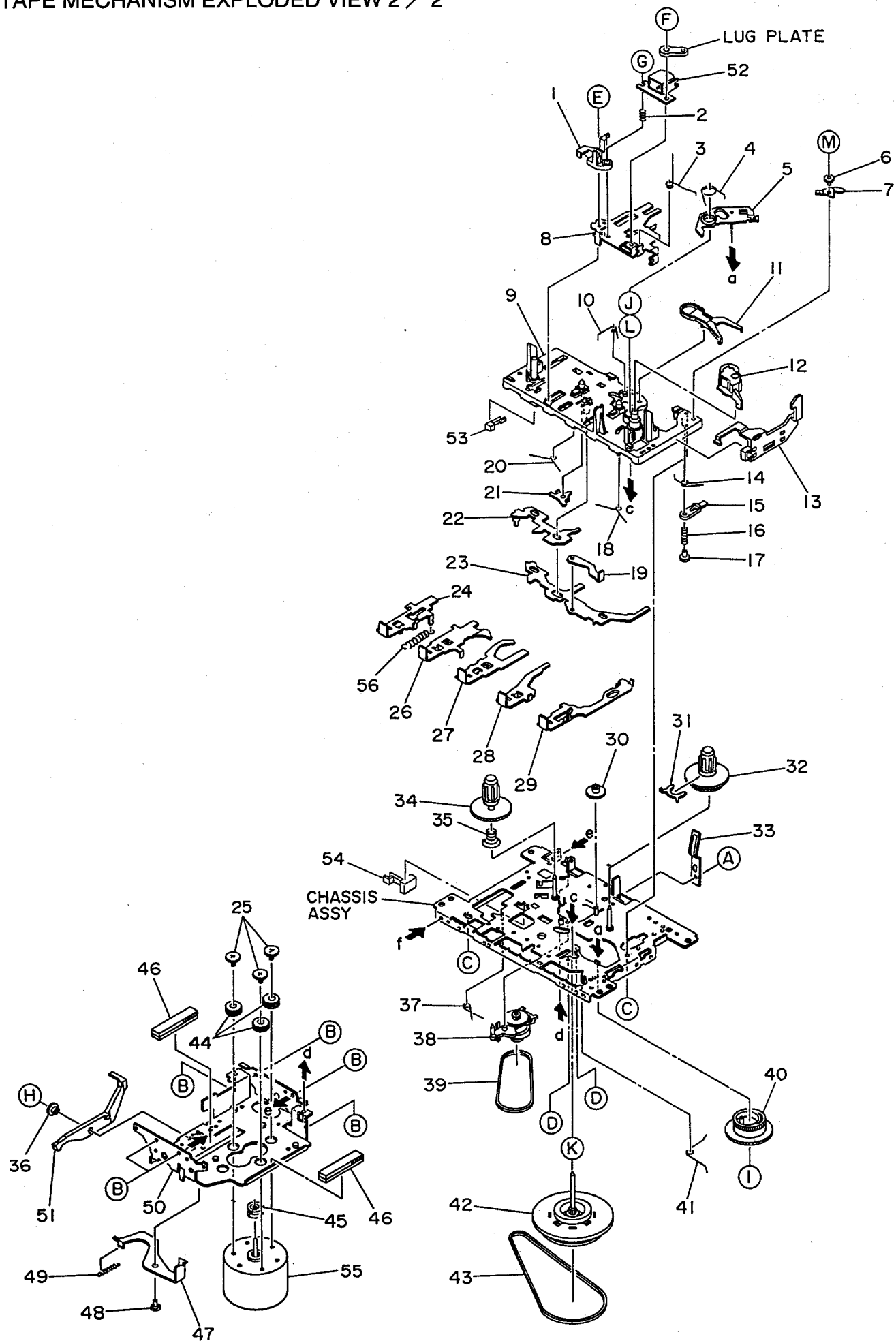


TAPE MECHANISM PARTS LIST 1 / 2

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REF. NO.	PART NO.	カンリ NO.	DESCRIPTION	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-020-010		REC ARM	31	S1-821-100-990		BACK TENSION SPRING
2	S1-921-030-090		PANEL P SPRING	32	S1-921-140-240		REW BUTTON LEVER
3	S1-921-260-050		GEAR PLATE SPRING	33	S1-921-140-250		FF BUTTON LEVER
4	S1-921-265-010		GEAR PLATE ASSY	34	S1-921-140-260		STOP BUTTON LEVER
5	S1-921-043-090		PINCH ROLLER ARM ASY	35	S1-921-140-610		PAUSE BUTTON LEVER
6	S1-921-140-370		P ARM COLLER	36	S1-821-100-700		FF GEAR
7	S1-921-140-340		P ARM	37	S1-829-100-010		PACK SPRING
8	S1-921-030-050		MG ARM	38	S1-821-100-690		RECORD SAFETY LEVER
9	S1-921-030-4A0		HEAD BASE	39	S1-921-140-210		REC BUTTON LEVER SPRING
10	S1-921-030-110		HEAD PANEL	40	S1-921-260-020		CAM GEAR
11	S1-921-141-8A0		M CONTROL SPRING	41	S1-921-140-160		E ACTUATOR SPRING
12	S1-821-030-070		AZIMUTH SPRING	42	S1-921-090-240		MAIN BELT
13	S1-921-143-010		BASE ASSY	43	S1-921-093-030		FLYWHEEL ASSY
14	S1-921-260-040		SENSING LEVER	44	S1-921-070-030		RF BELT
15	S1-921-130-020		EJECT SLIDE LEVER	45	S1-921-073-080		RF CLUTCH ASSY
16	S1-921-140-130		P CONTROL SPRING	46	S1-921-140-170		P.S.LEVER SPRING
17	S1-921-140-820		PAUSE LEVER(F)	47	S6-209-100-100		E HEAD PH-K380-MS1
18	S1-921-140-120		PAUSE LEVER SPRING	48	S6-201-010-750		R.P.HEAD RP-7442BS
19	S1-921-140-110		PAUSE STOPPER	49	S6-401-011-490		LEAF SW MSW-1541T
20	S1-921-140-150		BUTTON LEVER SPRING(B)	50	S1-821-010-500		PLAY BUTTON LEVER SPRING
21	S1-921-140-140		BUTTON LEVER SPRING(A)	51	S6-401-010-380		LEAF SW MSW-1275
22	S1-921-140-200		PR STOPPER	52	S1-921-030-100		MG ARM SPRING
23	S1-921-140-090		SWITCH ACTUATOR	A	S9-P33-200-320		DEL TITE SCREWM2-3
24	S1-821-011-590		E KICK LEVER	B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
25	S1-921-140-080		PUSH BUTTON ACTUATOR	C	S9-679-000-000		P TAP SCREW M2-5
26	S1-921-050-060		SENDER	D	S9-999-180-090		TAP SCREW M2-4.5
27	S1-921-053-030		TAKE UP REEL ASSY	E	S9-922-000-000		AZIMUTH SCREW M2-8
28	S1-921-140-220		REC BUTTON LEVER	F	S9-115-000-000		+ BIND SCREW M2-3
29	S1-921-053-040		SUPPLY REEL ASSY	G	S9-004-000-000		SCREW M2-6
30	S1-921-140-230		PLAY BUTTON LEVER	H	S9-982-000-000		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	S9-180-000-000		C TAP SCREW M2-4
				L	S9-999-000-030		P WASHER2.1-4-0.13
				M	S9-181-000-000		C TAP SCREW M2-5

TAPE MECHANISM EXPLODED VIEW 2 / 2

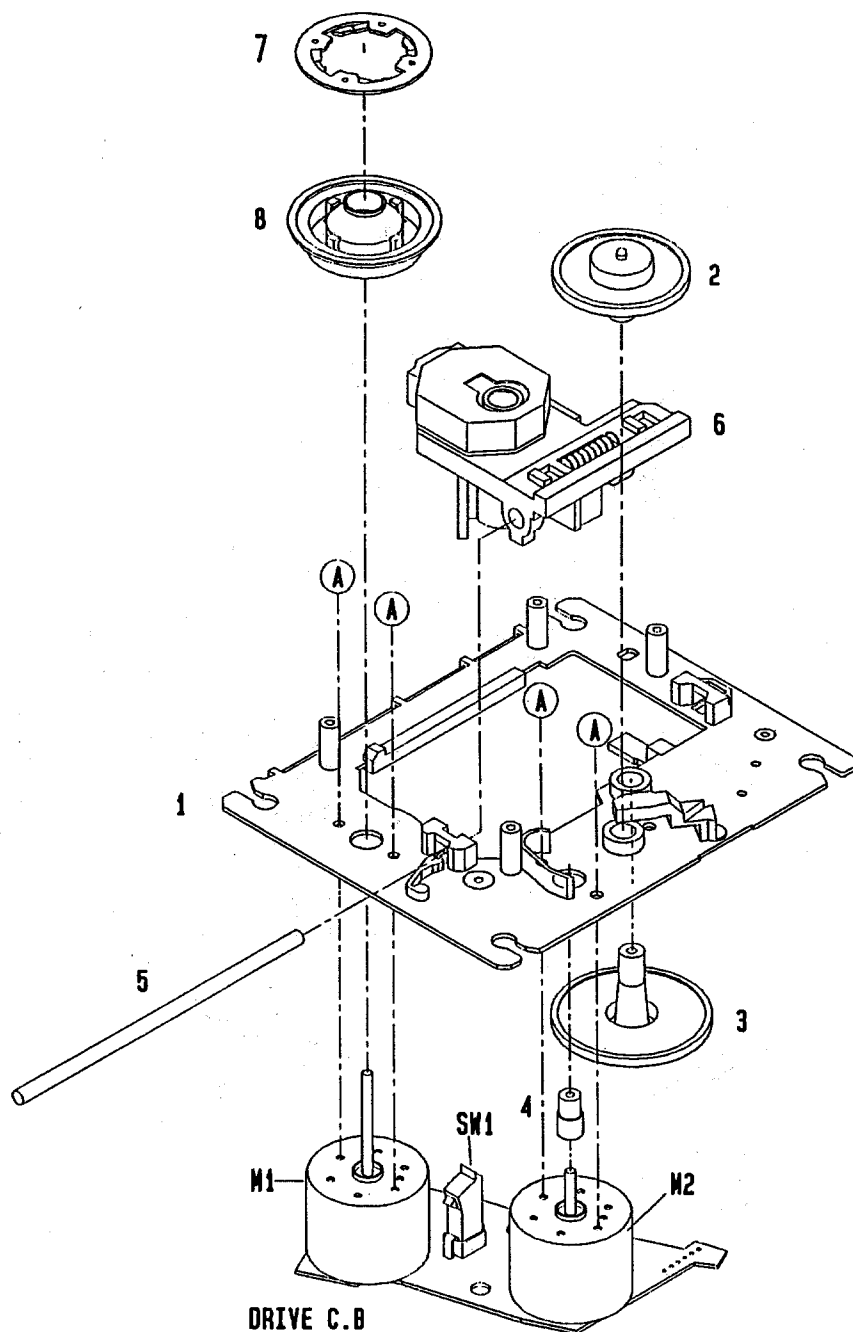


TAPE MECHANISM PARTS LIST 2 / 2

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-010		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	S1-921-260-040		SENSING LEVER
12	S1-921-043-090		PINCH ROLLER ARM ASY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-140-130		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		SENDER
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	S1-821-100-990		BACK TENSION SPRING

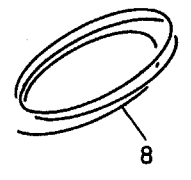
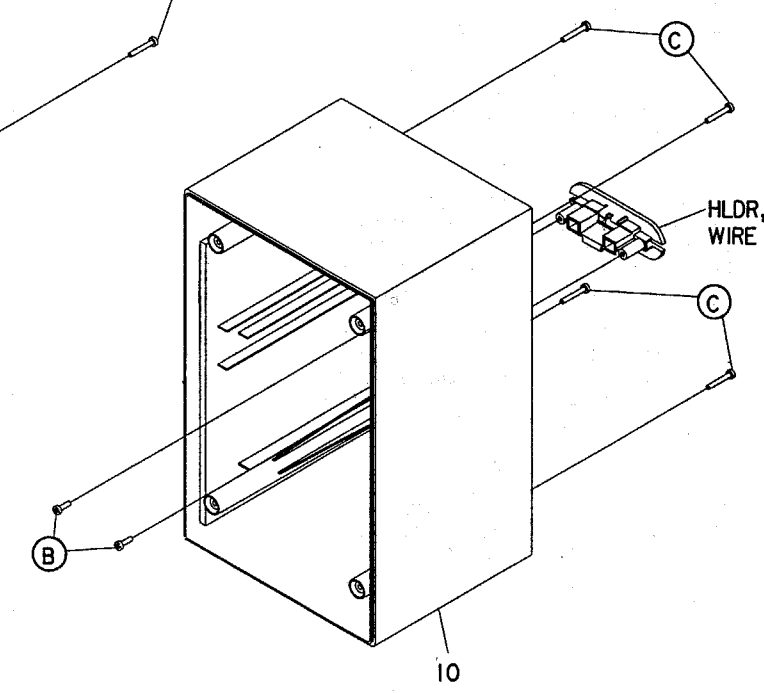
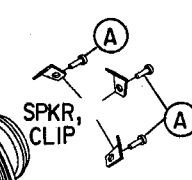
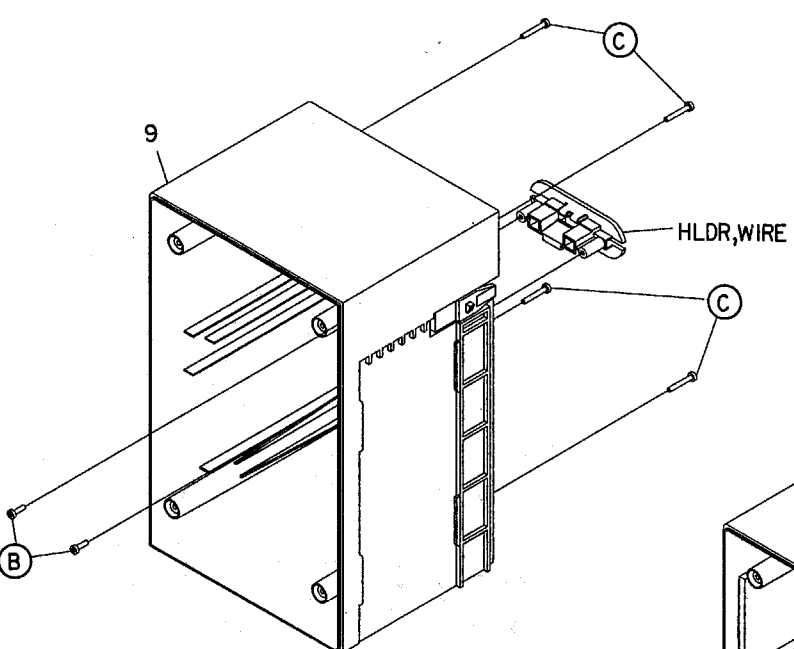
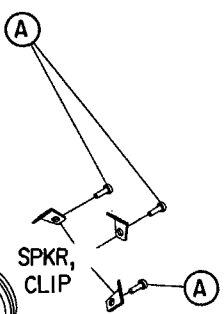
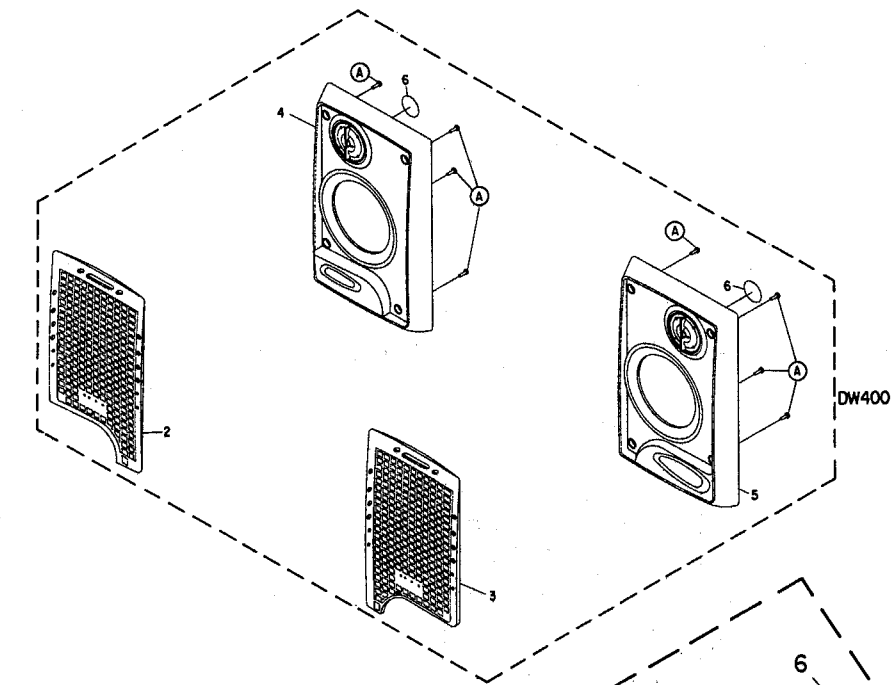
REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
36	S1-821-120-650		COLLER B
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-080		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-040		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
44	S1-820-130-060		MOTOR RUBBER
45	S1-921-120-130		MOTOR PULLEY
46	S1-921-120-120		ANTI VIBR FELT MAT
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	S6-201-010-750		R.P.HEAD RP-7442BS
53	S6-401-011-490		LEAF SW MSW-1541T
54	S6-401-011-610		LEAF SW MSW-17820MVEI
55	S6-002-030-290		MOTOR EG530YD-2BH
56	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	S9-982-000-000		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

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	83-ZG2-202-01K		O-SERT S ASSY, S	6	87-026-625-010		PICK UP UNIT, HPC-1C
2	83-ZG2-204-01K		GEAR, A	7	83-ZG2-214-01K		PLATE, TABLE 2
3	83-ZG2-205-01K		GEAR, B	8	83-ZG2-216-01K		TURN TABLE, B
4	83-ZG2-206-01K		GEAR, MOTOR	A	87-261-032-219		SCREW V + 2 - 3
5	83-ZG2-207-019		SHAFT, SLIDE				



MECHANICAL 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	S1-023-360-101		BADGE AIWA
2	S2-009-570-101		GRIL, SPEK (L) <3K, 3EZ, 3EEZ, 3LH, 3HR>
2	S1-029-440-101		SPKR, CLOTH NET FRONT (L) <EXCEPT 3K, 3EZ, 3EEZ, 3LH, 3HR>
3	S2-009-630-101		GRIL, SPKR (R) <3K, 3EZ, 3EEZ, 3LH, 3HR>
3	S1-029-450-101		SPKR, CLOTH NET FRONT (R) <EXCEPT 3K, 3EZ, 3EEZ, 3LH, 3HR>
4	S1-029-500-101		PANEL, BOX SPKR (L) <EXCEPT 3K, 3EZ, 3EEZ, 3LH, 3HR>
4	S1-029-420-101		PANEL, BOX SPKR (L) <3K, 3EZ, 3EEZ, 3LH, 3HR>
5	S1-029-510-101		PANEL, BOX SPKR (R) <EXCEPT 3K, 3EZ, 3EEZ, 3LH, 3HR>
5	S1-029-430-101		PANEL, BOX SPKR (R) <3K, 3EZ, 3EEZ, 3LH, 3HR>
6	S5-625-800-000		CER, BUZZER 27MM
7	S1-700-421-000		SPKR, 4-4W (BLK)
8	S1-1B1-764-L00		SPKR, WIRE
9	S1-029-460-101		REAR, BOX SPKR (L)
10	S1-029-470-101		REAR, BOX SPKR (R)
A	87-751-096-410		VT2+3-10
B	87-761-096-410		VFT2+3-10MM
C	87-751-102-410		VT2+3-20

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 - -	

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