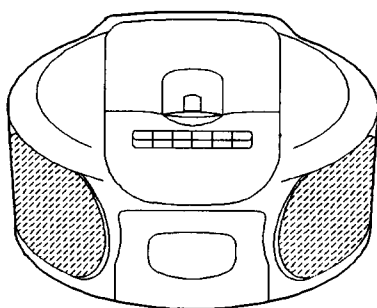


aiwa



CSD-EX110



COMPACT DISC STEREO
RADIO CASSETTE RECORDER

- BASIC TAPE MECHANISM: TN-21ZVC-1270
- BASIC CD MECHANISM: KSM-2101BAM

- TYPE: U,D,HR,LH,EEZ

製品コード : 84CD8-0117(B)

改 定 版 REVISION PUBLISHING

- このサービスマニュアルはシンプル版 (S/M Code No. 09-94A-083-00T) の改定版です。差し替えて使用してください。
- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-94A-083-00T).

SPECIFICATIONS

D MODEL

<共通部>

スピーカー 77mmコーン型(2)
出力端子 ヘッドホンジャック
(ステレオミニジャック)(1)
[350mV (17Ω)]

実用最大出力 2W+2W (EIAJ/8Ω)

電池持続時間 マンガン乾電池R14P使用

EIAJ FM録音時	CD演奏時 (音量7分目)	EIAJ テープ再生時
約12時間	約2時間	約8.5時間

電源 家庭用電源AC100V、50/60Hz
乾電池DC12V、単2形乾電池8本使用
消費電力 13W
最大外形寸法 286(幅)×158(高さ)×237(奥行き)mm
重量 約2.7kg(乾電池含まず)

<CDプレーヤー部>

ディスク コンパクトディスク
読み取り方式 非接触光学式読み取り
(半導体レーザー使用)
エラー訂正方式 クロスインターリーブリードソロモンコード
周波数特性 40Hz~20,000Hz±3dB

<カセットデッキ部>

トラック方式 4トラック2チャンネルステレオ方式
録音方式 交流バイアス
消去方式 マグネット消去
使用テープ コンパクトカセットテープ
再生時: ノーマル
録音時: ノーマル
使用ヘッド 録音/再生ヘッド(1)、消去ヘッド(1)
周波数範囲 50~12,500Hz(ノーマルテープ)
[EIAJ]

<チューナー部>

受信周波数 FM/テレビ(1~3ch): 76~108MHz
AM: 530~1,605kHz
アンテナ FM/テレビ: FMアンテナ
AM: フェライトバーアンテナ

● 外観及び仕様は予告なく変更する場合があります。

U, LH MODELS

Tuner section

Frequency range

<U model> FM: 87.5-108.0 MHz
Antenna: FM antenna
AM: 530-1,710 kHz
Antenna: Ferrite bar antenna
<LH model> FM: 87.5-108.0 MHz
Antenna: FM/SW antenna
SW: 3.9-12.1 MHz
Antenna: FM/SW antenna
MW: 530-1,710 kHz
Antenna: Ferrite bar antenna

Deck section

Track format

4 tracks, 2 channels

Frequency range

Normal tape: 50-12,500 Hz (EIAJ)

Recording system

AC bias

Erasing system

Magnet erase

Heads Recording/playback head (1)
Erasure head (1)

CD player section

Disc Compact disc

Scanning method

Non-contact optical scanner
(semiconductor laser)

Laser Semiconductor laser $\lambda=780\text{nm}$

Rotation speed

Approx. 500-200 rpm/CLV

Error correction

Cross interleave, Reed Solomon
code

No. of channels

2 channels

D/A conversion

16-bit linear

Common section

Speaker 77 mm cone type (2)

Output Headphones jack (stereo mini-jack)

Power output

2W + 2W (EIAJ/8Ω DC)

Power requirements

U model: AC 120V
LH model: AC 110-120V/220-
240V selectable

Power consumption

U model: 12W
LH model: 15W

Dimensions 286 (W) × 158 (H) × 237 (D) mm

Weight Approx. 2.7 kg (excluding batteries)

● Design and specifications are subject to change without notice.

SPECIFICATIONS

HR MODEL

Tuner section

Frequency range

FM: 87.5-108.0 MHz
Antenna: FM/SW antenna
SW: 3.9-12.1 MHz
Antenna: FM/SW antenna
MW: 530-1,605 kHz
Antenna: Ferrite bar antenna

Deck section

Track format

4 tracks, 2 channels

Frequency range

Normal tape: 50-12,500 Hz (EIAJ)

Recording system

AC bias

Erasing system

Magnet erase

Heads Recording/playback head (1)
Erasure head (1)

CD player section

Disc Compact disc

Scanning method

Non-contact optical scanner
(semiconductor laser)

Laser Semiconductor laser $\lambda=780\text{nm}$

Rotation speed

Approx. 500-200 rpm/CLV

Error correction

Cross interleave, Reed Solomon
code

No. of channels

2 channels

D/A conversion

16-bit linear

Common section

Speaker 77 mm cone type (2)

Output Headphones jack (stereo mini-jack)

Power output

2W + 2W (EIAJ/8 Ω DC)

Power requirements

DC12V using eight R14 (size C)
batteries
AC 110-120V/220-240V selectable

Power consumption

15W

Dimensions 286 (W) $\times$ 158 (H) $\times$ 237 (D) mm

Weight Approx. 2.7kg (excluding batteries)

- Design and specifications are subject to change without notice.

EEZ MODEL

Tuner section

Frequency range

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

Deck section

Track format

4 tracks, 2 channels

Frequency range

Normal tape: 50-12,500 Hz (EIAJ)

Recording system

AC bias

Erasing system

Magnet erase

Heads Recording/playback head (1)
Erasure head (1)

CD player section

Disc Compact disc

Scanning method

Non-contact optical scanner
(semiconductor laser)

Laser Semiconductor laser $\lambda=780\text{nm}$

Rotation speed

Approx. 500-200 rpm/CLV

Error correction

Cross interleave, Reed Solomon
code

No. of channels

2 channels

D/A conversion

16-bit linear

Common section

Speaker 77 mm cone type (2)

Output Headphones jack (stereo mini-jack)

Power output

2W + 2W (EIAJ/8 Ω DC)

Power requirements

DC12V using eight R14 (size C)
batteries
AC 230V

Power consumption

18W

Dimensions 286 (W) $\times$ 158 (H) $\times$ 237 (D) mm

Weight Approx. 2.7kg (excluding batteries)

- 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!

Laitteen 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 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 radiation exposure.

ATTENTION

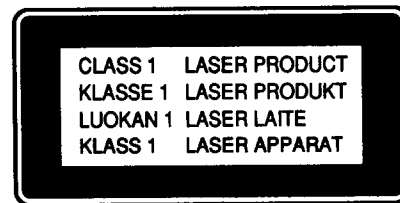
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



光学ブロック (KSS - 210B) 交換時の注意

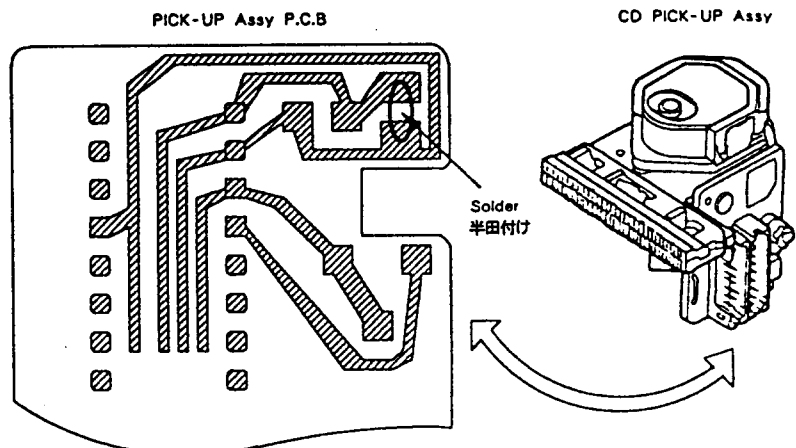
光学系ブロック内のレーザーダイオードは、衣服や人体に帯電した静電荷等で電位差を生じることにより、静電破壊することがあります。人体アース、作業台のアースをとり、衣服が触れぬよう注意して下さい。

- 1) コネクターを接続後、右図に示すハンダ付けを取り除いて下さい。

Precaution to replace Optical block (KSS - 210B)

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.	カリ NO.	DESCRIPTION	REF. NO.	PART NO.	カリ NO.	DESCRIPTION
IC				C520	87-010-263-010	OE	CAP, E 100-10
	87-002-407-010	2A	IC, TA8191F	C533	87-010-404-010	OE	CAP, E 4. 7-50V
	87-002-408-010	2Y	IC, TC9236F	C534	87-010-404-010	OE	CAP, E 4. 7-50V
	87-002-644-010	1F	IC, TDA1311AT	C701	87-010-248-010	OE	CAP, E 220-10V
	87-002-258-010	1H	IC, AN8377N	C702	87-010-221-010	OE	CAP, E 470-10V
	87-001-176-010	1D	IC, TA8102P	C703	87-010-248-010	OE	CAP, E 220-10V
	87-001-196-010	1A	IC, ICPN10	C803	87-010-401-010	OE	CAP, E 1-50
	S8-381-270-010	1D	IC, TA8127N	C804	87-010-401-010	OE	CAP, E 1-50
	87-017-907-010	1F	IC, TMP47C203M-J177	C807	87-010-412-010	OE	CAP, E 10-25V
	87-002-641-010	1E	IC, TA8124P	C808	87-010-412-010	OE	CAP, E 10-25V
	87-027-761-010	1B	IC, AN7310	C809	87-010-263-010	OE	CAP, E 100-10
	87-027-682-010	1H	IC, TA8227P	C810	87-010-263-010	OE	CAP, E 100-10
TRANSISTOR				C813	87-010-644-010	OE	CAP, E 470-16V
	87-026-291-010	OE	TR, DTC124XS	C814	87-010-644-010	OE	CAP, E 470-16V
	89-112-965-010	1B	TR, 2SA1296GR	C815	87-010-564-010	OE	CAP, E 100-16V
	S7-855-000-020	OE	TR, PE8550B, C	C816	87-015-716-010	OE	CAP, E 22-16V
	87-026-463-010	OE	TR, 2SA933S	C817	87-010-644-010	OE	CAP, E 470-16V
	87-026-486-010	OE	TR, DTA144TS	C905	87-010-390-010	1C	CAP, E 3300-25V
	S1-084-400-040	TR, 2SA844D<HR, LH, EEZ>		C906	87-010-564-010	OE	CAP, E 100-16V
	S3-141-700-060	OE	TR, 2SC-1417F	CF101	S0-004-650-000		CER, FIL SFU-465B<EEZ>
	89-304-583-010	OE	TR, 2SC458C	CF101	S0-004-500-000	1A	CER, FIL SFU450B
	87-026-462-010	OE	TR, 2SC1740S	CF101	S0-004-550-030		CER, FIL SFU455B<HR, LH, U>
	S7-805-000-020	OE	TR, PE8050B, C, D	CF102	S0-001-070-000	OE	CER, FIL SFE10. 7MA5-M
	89-210-642-010	1B	TR, 2SB1064E	CF401	S0-004-500-000	1A	CER, FIL SFU450B
DIODE				CF402	S6-003-600-000	1B	CER, RESO
	82-135-799-010	OE	DIODE, IN4148	JK801	S0-080-200-000	1B	JACK HP 2P2T
	S0-026-380-000	OE	DIODE, 1S2638	L100	S0-100-900-000	OE	FERRITE BAR 10-90
	S0-100-221-200	OE	ZENER, 2. 2V	L101	S0-721-651-000		COIL, ANT MW<EEZ>
	S0-100-821-200	OE	ZENER, 8. 2V, 1/2W	L101	S0-981-651-000	--	COIL, ANT MW<U, B>
				L101	S0-721-651-000		COIL, ANT MW<HR, LH>
MAIN C. B				L102	S0-600-450-080	OE	COIL, FM
C115	87-010-400-010	OE	CAP, E 0. 47-50V	L103	S0-400-480-060	OE	COIL, FM
C116	87-015-961-010	OE	CAP, E 0. 1-50	L103	S0-300-500-080		FM COIL 3T, 5MM<HR, LH, U>
C117	87-010-551-010	OE	CAP, E 33-10V	L103	S0-080-000-100		IFT, CEO-800 7KS-1 7MM<EEZ>
C120	87-010-403-010	OE	CAP, E 3. 3-50V	L104	S0-400-450-080	OE	FM COIL 4T, 4. 5MM
C121	87-010-401-010	OE	CAP, E 1-50	L105	S0-102-270-000		INDUCTOR 2. 2UH<HR, LH>
C122	87-010-401-010	OE	CAP, E 1-50	L106	S0-100-160-000	OE	INDUCTOR, 10UH
C126	87-010-404-010	OE	CAP, E 4. 7-50V	L108	S2-552-601-200		LW COIL 255:26, 120MM<EEZ>
C127	87-010-404-010	OE	CAP, E 4. 7-50V	PVC1	S3-221-250-000		PVC, AM/FM 20PF<U>
C128	87-010-263-010	OE	CAP, E 100-10	PVC1	S3-221-250-030	--	PVC, AM/FM 40PF
C129	S4-104-000-250	OE	CAP, E 0. 1-25V	PVC1	S5-221-700-000		PVC, AM/FM/SW<HR, LH, EEZ>
C404	87-010-491-010	OE	CAP, E 0. 22-50V	SW101	S2-200-910-010		SW, SLIDE<U>
C406	87-010-404-010	OE	CAP, E 4. 7-50V	SW101	S4-300-910-010	1A	SW, SLIDE
C407	87-010-263-010	OE	CAP, E 100-10	SW101	S6-300-910-010		SW, SLIDE SS63D01G9-B<HR, LH, EEZ>
C410	S0-225-200-500	OE	CAP, E 2. 2-50V	SW501	S2-300-911-000	1A	SW, SLIDE SKE01G9
C411	87-015-961-010	OE	CAP, E 0. 1-50	SW502	S0-092-200-000	1B	SW, REC 9P2T 2MM
C413	87-010-263-010	OE	CAP, E 100-10	SW801	S4-300-910-010	1A	SW, SLIDE
C416	87-010-263-010	OE	CAP, E 100-10	T101	S0-086-400-100	--	IFT, 1A864R 10MM<U, B>
C421	87-015-961-010	OE	CAP, E 0. 1-50	T101	S0-087-500-100		IFT, 1A875R 10MM<EEZ>
C422	87-015-961-010	OE	CAP, E 0. 1-50	T101	S0-092-400-100		IFT, 1A924R 10MM<HR, LH>
C423	87-015-961-010	OE	CAP, E 0. 1-50	T102	S0-012-100-100	OE	IFT, 7A121N 10MM
C424	87-015-961-010	OE	CAP, E 0. 1-50	T103	S0-062-500-100	OE	IFT, 4A625F 10MM
C425	87-015-961-010	OE	CAP, E 0. 1-50	T104	S0-016-100-100	OE	IFT, 7A161R 10MM
C426	87-015-961-010	OE	CAP, E 0. 1-50	T105	S0-092-400-100		IFT, 1A924R 10MM<EEZ>
C451	87-010-248-010	OE	CAP, E 220-10V	T105	S0-061-900-100		IFT, KM619R 10MM<HR, LH>
C503	87-010-263-010	OE	CAP, E 100-10	T106	S0-063-900-100		IFT, KM639R 10MM<HR, LH>
C504	87-010-263-010	OE	CAP, E 100-10	T501	S0-036-300-100	OE	IFT, 4A363R(B)
C507	87-010-404-010	OE	CAP, E 4. 7-50V	TC101	S1-000-080-000		TRIMMER, 8PF 1T8M 1S8M<HR, LH>
C508	87-010-404-010	OE	CAP, E 4. 7-50V	TC101	S1-000-200-000		TRIMMER 20PF<EEZ>
C513	87-010-269-010	OE	CAP, E 470-10V	TC102	S1-000-080-000		TRIMMER, 8PF 1T8M 1S8M<HR, LH>
C516	87-010-248-010	OE	CAP, E 220-10V	TC102	S1-000-200-000		TRIMMER 20PF<EEZ>
				VR101	S1-030-851-000	OE	SFR, 10K EVND8AA03B1
				VR401	S1-030-851-000	OE	SFR, 10K EVND8AA03B1
				VR501	S1-030-851-000	OE	SFR, 10K EVND8AA03B1

REF. NO.	PART NO.	カリ NO.	DESCRIPTION
CD MAIN C. B			
C1	87-015-716-010	OE	CAP, E 22-16V
C6	87-010-248-010	OE	CAP, E 220-10V
C9	87-010-491-010	OE	CAP, E 0.22-50V
C10	87-010-263-010	OE	CAP, E 100-10
C11	87-010-401-010	OE	CAP, E 1-50
C12	87-010-248-010	OE	CAP, E 220-10V
C15	87-010-265-010	OE	CAP, E 33-16V
C16	87-010-403-010	OE	CAP, E 3.3-50V
C17	87-010-380-010	OE	CAP, E 47-16V
C24	87-010-248-010	OE	CAP, E 220-10V
C27	87-010-221-010	OE	CAP, E 470-10V
C35	87-010-263-010	OE	CAP, E 100-10
C38	87-010-263-010	OE	CAP, E 100-10
C44	87-010-248-010	OE	CAP, E 220-10V
C52	87-010-401-010	OE	CAP, E 1-50
C64	87-010-375-010	OE	CAP, E 330-10V
C101	87-010-412-010	OE	CAP, E 10-25V
C102	87-010-412-010	OE	CAP, E 10-25V
C109	87-010-269-010	OE	CAP, E 470-10V
L1	S0-100-140-000	OE	INDUCTOR 100UH
L2	S0-100-140-000	OE	INDUCTOR 100UH
SFR1	S4-720-650-000	OE	SFR, 5K
SFR2	S1-040-851-020	OE	SFR, 100K
X1	S0-016-930-000	1B	CER, RESO
CD CONTROL C. B			
C201	87-015-716-010	OE	CAP, E 22-16V
C201	87-015-973-010	OE	CAP, E 22-16V
C206	87-010-420-010	OE	CAP, E 10-6.3V
CF201	S6-004-000-000	1B	CER, RESO 4MHZ
DP201	S0-036-110-000	1B	DISPLAY, SA36-11HWA

REF. NO.	PART NO.	カリ NO.	DESCRIPTION
LD201	S0-012-410-030	OE	LED, SE3021DT/124A 3MM(GRN)
LD801	S0-300-100-030	OE	LED, SE3001 RED
SW201	S0-083-000-000	OE	SW, TACT
SW202	S0-083-000-000	OE	SW, TACT
SW203	S0-083-000-000	OE	SW, TACT
SW204	S0-083-000-000	OE	SW, TACT
SW205	S0-083-000-000	OE	SW, TACT
VR C. B			
C825	87-010-404-010	OE	CAP, E 4.7-50V
C826	87-010-404-010	OE	CAP, E 4.7-50V
C841	87-010-263-010	OE	CAP, E 100-10
C842	87-010-401-010	OE	CAP, E 1-50
C843	87-010-401-010	OE	CAP, E 1-50
VR801	S5-030-020-040	1B	VR, 50KAX2
VR802	S5-000-020-000	1B	VR, 50K-B
CD GND C. B			
BATT-1 C. B			
BATT-2 C. B			
LED C. B			
D401	S0-012-410-030	OE	LED, SE3021DT/124A 3MM(GRN)
D402	S0-300-100-030	OE	LED, SE3001 RED
D403	S0-012-410-030	OE	LED, SE3021DT/124A 3MM(GRN)
CD MOTOR C. B			
M2	9X-262-513-210	2P	SLED MOTOR ASSY
M3	9X-262-513-210	2P	SLED MOTOR ASSY
PIN3	91-564-721-110	1C	CONNECTOR 5P
SW9	91-572-085-110	1C	SW, LEAF

TRANSISTOR ILLUSTRATION



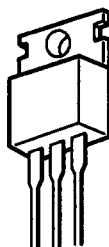
ECB

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2SA1296
2SC458
2SC1417
PE8050
PE8550



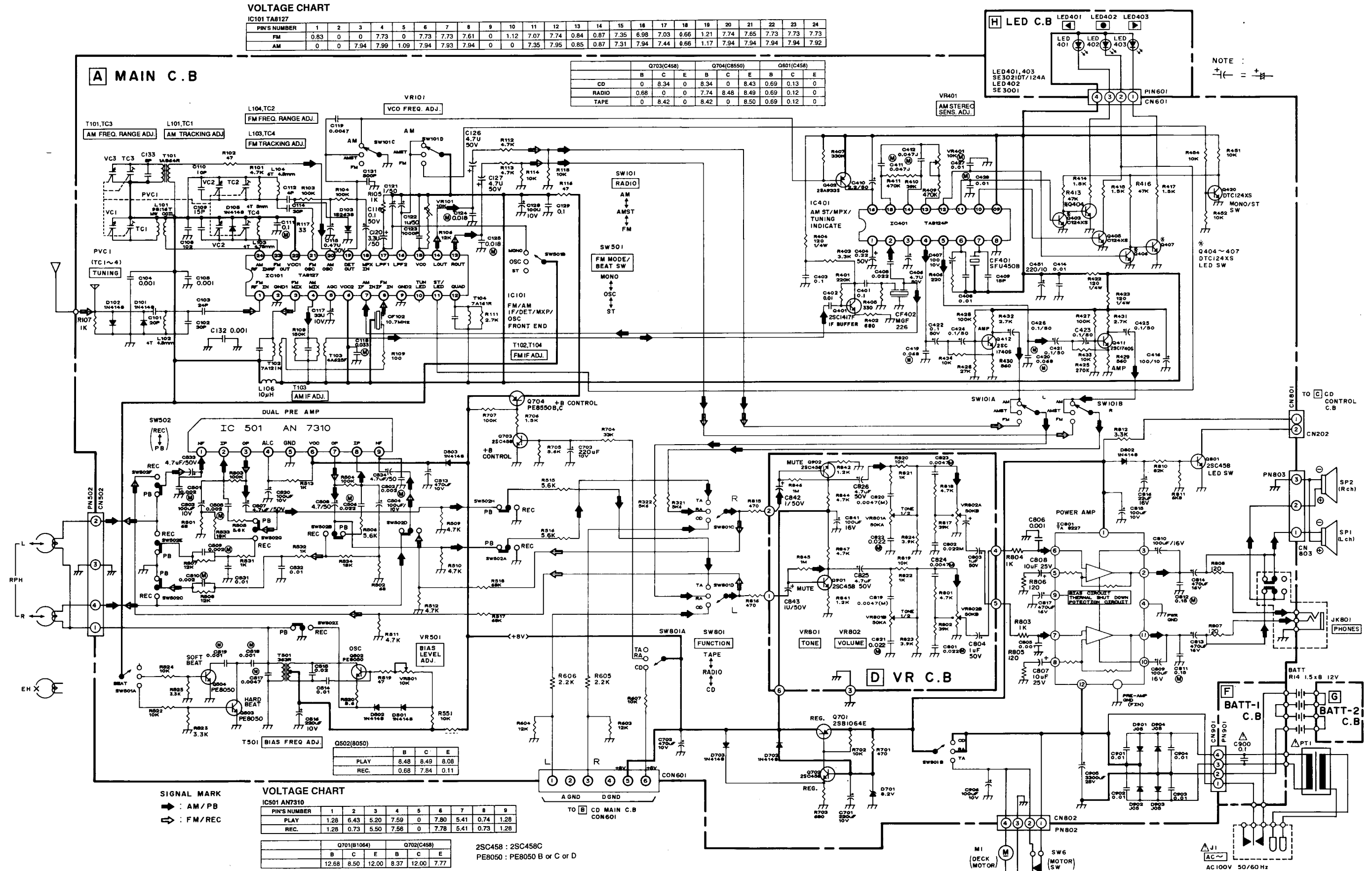
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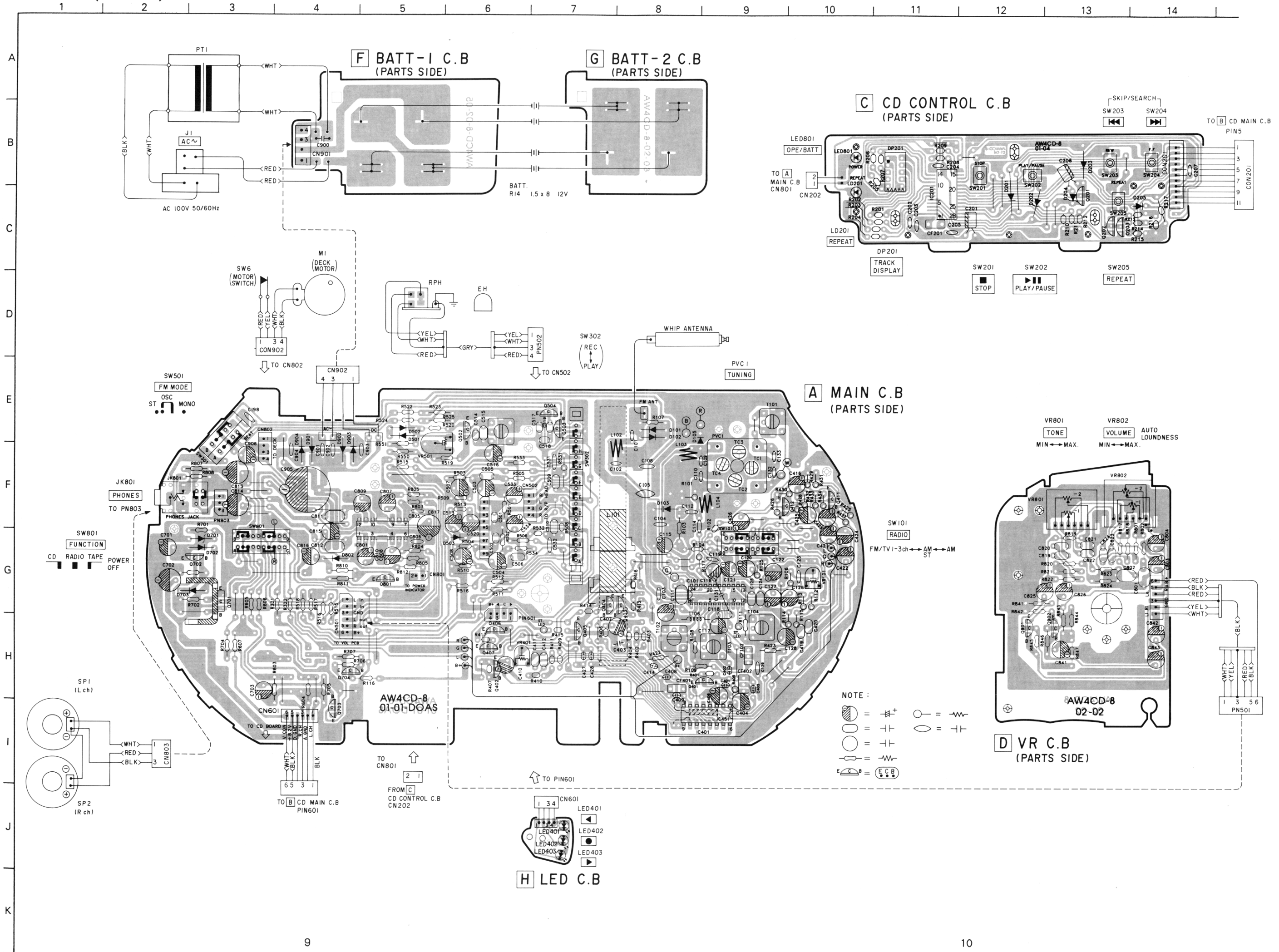
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DTC124XS
DTA144TS



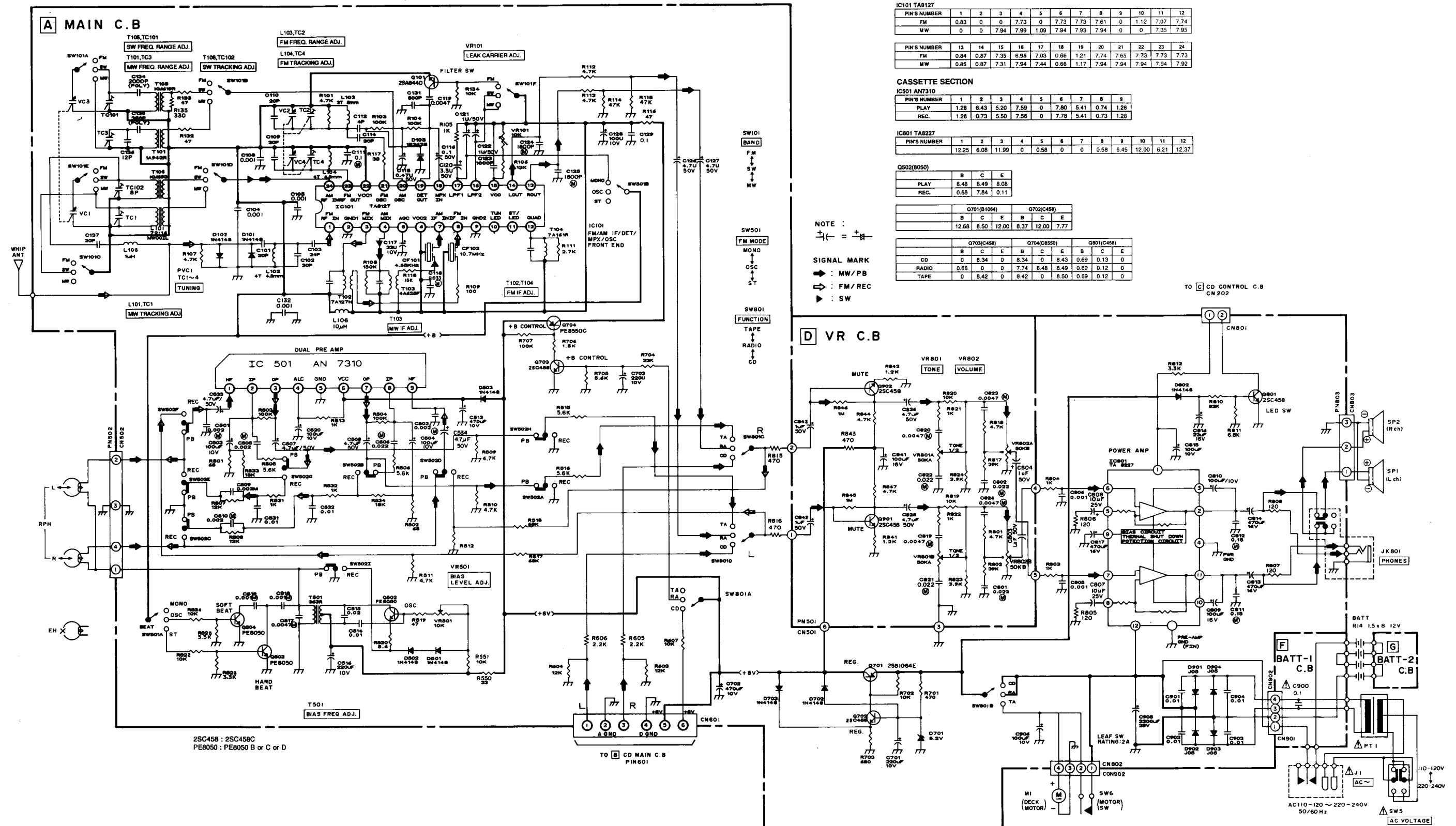
BCE

2SB1064





SCHEMATIC DIAGRAM - 2 (MAIN : HR, LH)



VOLTAGE CHART

TUNER SECTION

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
FM	0.83	0	0	7.73	0	7.73	7.73	7.61	0	1.12	7.07	7.75
MW	0	0	7.94	7.99	1.09	7.94	7.93	7.94	0	0	7.35	7.94

PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
FM	0.84	0.87	7.35	6.98	7.03	0.66	1.21	7.94	7.65	7.73	7.73	7.73
MW	0.85	0.87	7.31	7.94	7.44	0.66	1.17	7.94	7.94	7.94	7.94	7.92

CASSETTE SECTION

IC501 AN7310									
PIN'S NUMBER	1	2	3	4	5	6	7	8	9
PLAY	1.28	6.43	5.20	7.59	0	7.80	5.41	0.74	1.28
REC.	1.28	0.73	5.50	7.56	0	7.78	5.41	0.73	1.28

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	12.25	6.08	11.99	0	0.58	0	0	0.58	6.45	12.00	6.21	12.37

	B	C	E
PLAY	8.48	8.49	8.08
REC.	0.68	7.84	0.11

	Q701(B1064)			Q702(C458)		
	B	C	E	B	C	E
	12.68	8.50	12.00	8.37	12.00	7.77

	Q703(C458)			Q704(CB550)			Q801(C458)		
	B	C	E	B	C	E	B	C	E
CD	0	8.34	0	8.34	0	8.43	0.69	0.13	0
RADIO	0.68	0	0	7.74	8.48	8.49	0.69	0.12	0
TAPE	0	8.42	0	8.42	0	8.50	0.69	0.12	0

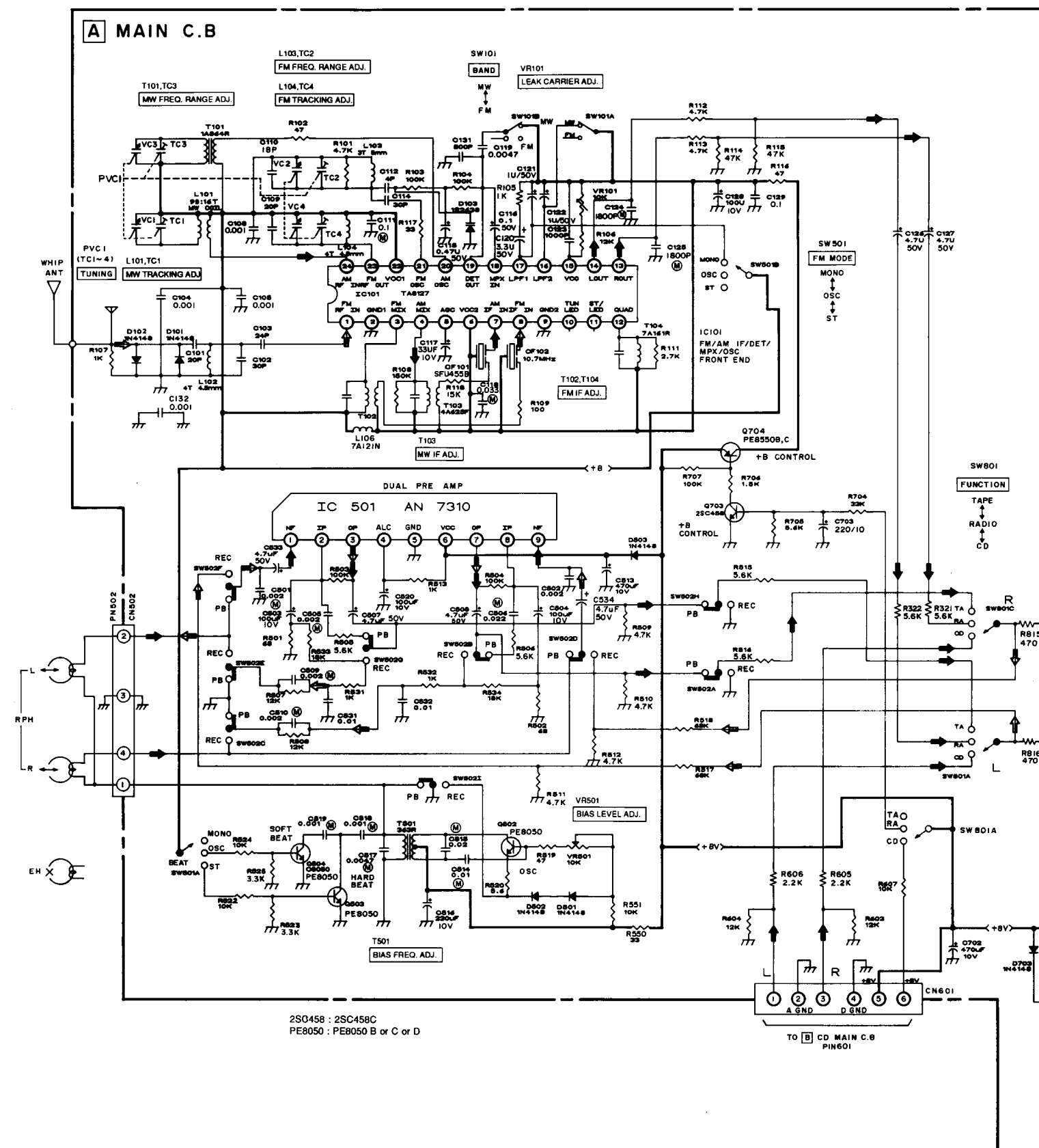
NOTE :

$\frac{+}{-} \left(\leftarrow \right) = \frac{+}{-} \left(\rightarrow \right)$

SIGNAL MARK
 : MW/PB
 : FM/REC
 : SW

TO ☐ CD CONTROL C.B
CN 202





VOLTAGE CHART TUNER SECTION

IC101 TA8127												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
FM	0.83	0	0	7.73	0	7.73	7.73	7.61	0	1.12	7.07	7.74
MW	0	0	7.94	7.99	1.09	7.94	7.93	7.94	0	0	7.35	7.95

PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
FM	0.84	0.87	7.35	6.98	7.03	0.66	1.21	7.74	7.65	7.73	7.73	7.73
MW	0.85	0.87	7.31	7.94	7.44	0.66	1.17	7.94	7.94	7.94	7.94	7.92

CASSETTE SECTION

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
PLAY	1.28	6.43	5.20	7.59	0	7.80	5.41	0.74	1.28
REC.	1.28	0.73	5.50	7.56	0	7.78	5.41	0.73	1.28

IC801 TA8227												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	12.25	6.08	11.99	0	0.58	0	0	0.58	6.45	12.00	6.21	12.37

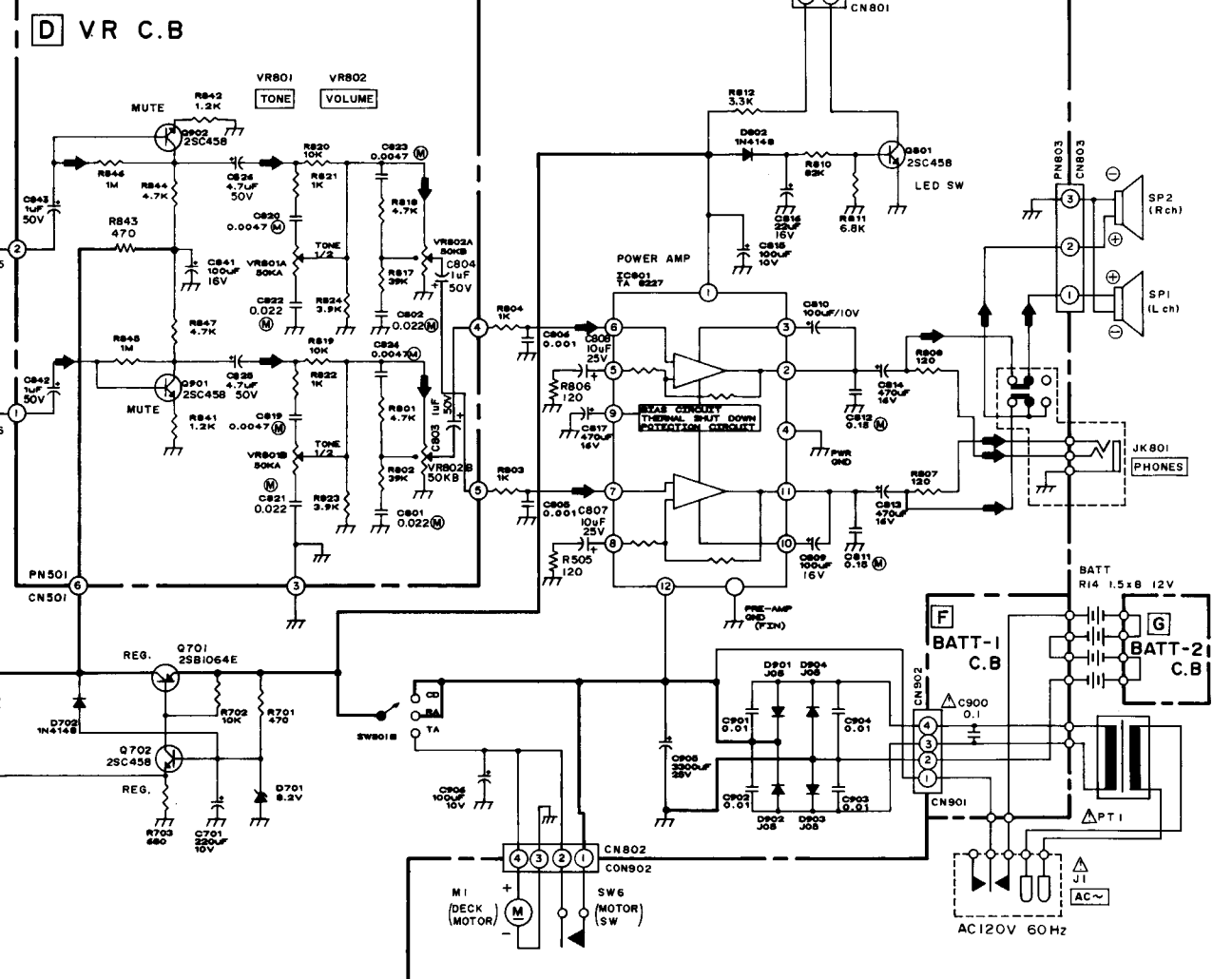
	B	C	E
PLAY	8.48	8.49	8.08
REC.	0.68	7.84	0.11

	Q701(B1064)			Q702(C458)		
	B	C	E	B	C	E
	12.68	8.50	12.00	8.37	12.00	7.77

	Q703(C458)			Q704(C8550)			Q801(C458)		
	B	C	E	B	C	E	B	C	E
CD	0	8.34	0	8.34	0	8.43	0.69	0.13	0
RADIO	0.68	0	0	7.74	8.48	8.49	0.69	0.12	0
TAPE	0	8.42	0	8.42	0	8.50	0.69	0.12	0

NOTE :
 $\frac{+}{-}|(-) = \frac{+}{-}|$

SIGNAL MARK
 ➡ : MW/PB
 ⇨ : FM/REC





VOLTAGE CHART TUNER SECTION

IC101 TA8127

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
FM	0.83	0	0	7.73	0	7.73	7.73	7.61	0	1.12	7.07	7.74
MW	0	0	7.94	7.99	1.09	7.94	7.93	7.94	0	0	7.35	7.95

PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
FM	0.84	0.87	7.35	6.86	7.03	0.66	1.21	7.74	7.65	7.73	7.73	7.73
MW	0.85	0.87	7.31	7.94	7.44	0.66	1.17	7.94	7.94	7.94	7.94	7.92

CASSETTE SECTION

IC501 AN7310

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
PLAY	1.28	6.43	5.20	7.59	0	7.80	5.41	0.74	1.28
REC.	1.28	0.73	5.50	7.56	0	7.78	5.41	0.73	1.28

IC801 TA8227

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	12.25	6.08	11.99	0	0.58	0	0	0.58	6.45	12.00	6.21	12.37

Q502(8050)

	B	C	E
PLAY	8.48	8.49	8.08
REC.	0.68	7.84	0.11

	Q701(B1064)			Q702(C458)		
	B	C	E	B	C	E
	12.68	8.50	12.00	6.37	12.00	7.77

	Q703(C458)			Q704(C8550)			Q801(C458)		
	B	C	E	B	C	E	B	C	E
CD	0	8.34	0	8.34	0	8.43	0.69	0.13	0
RADIO	0.68	0	0	7.74	8.48	8.49	0.69	0.12	0
TAPE	0	8.42	0	8.42	0	8.50	0.69	0.12	0

SIGNAL MARK

➡ : MW / PB

➡ : FM / REC

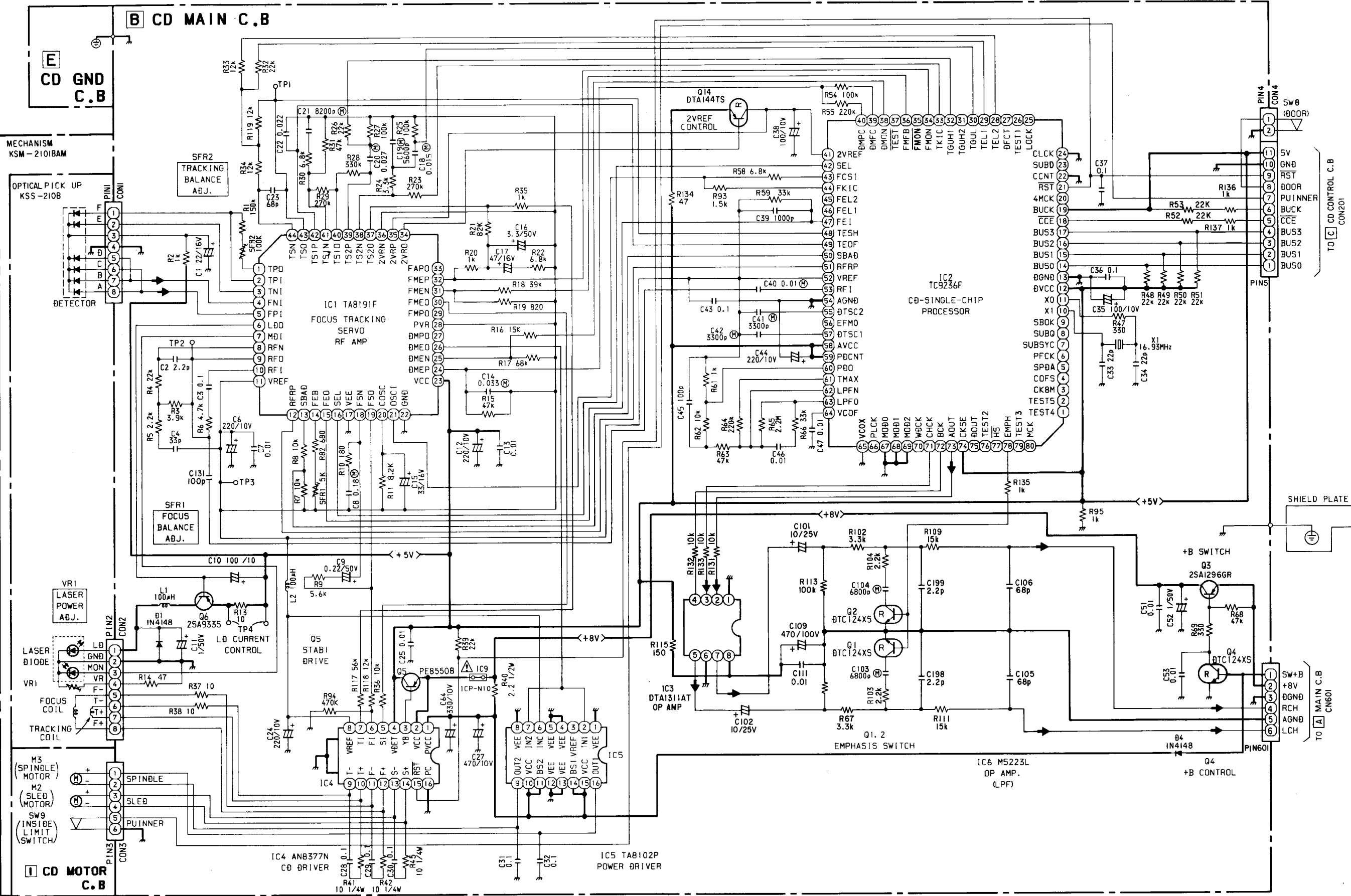
➡ : LW

NOTE :

⊕ (← = ⊕ →

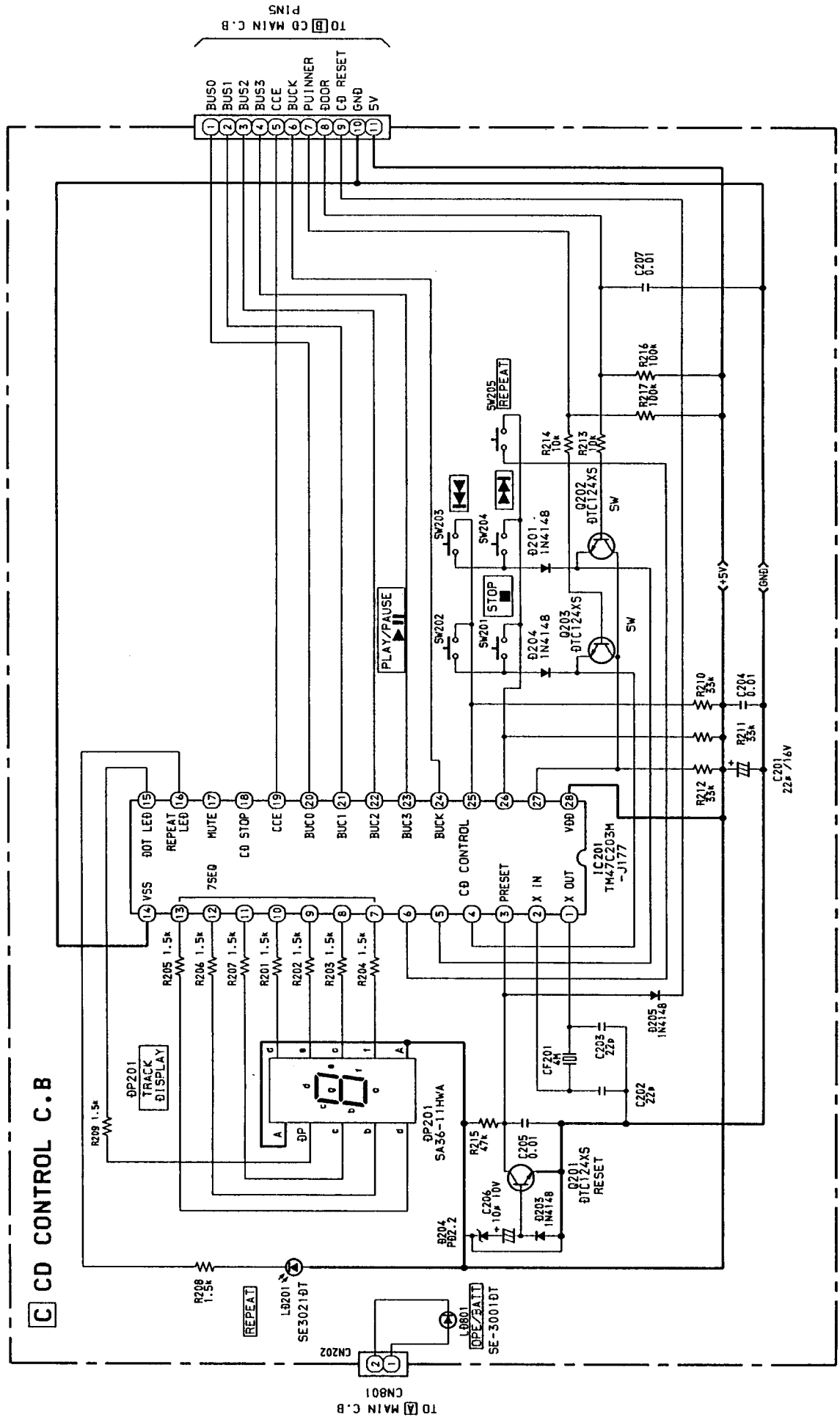
TO C CD CONTROL C.B
CN202







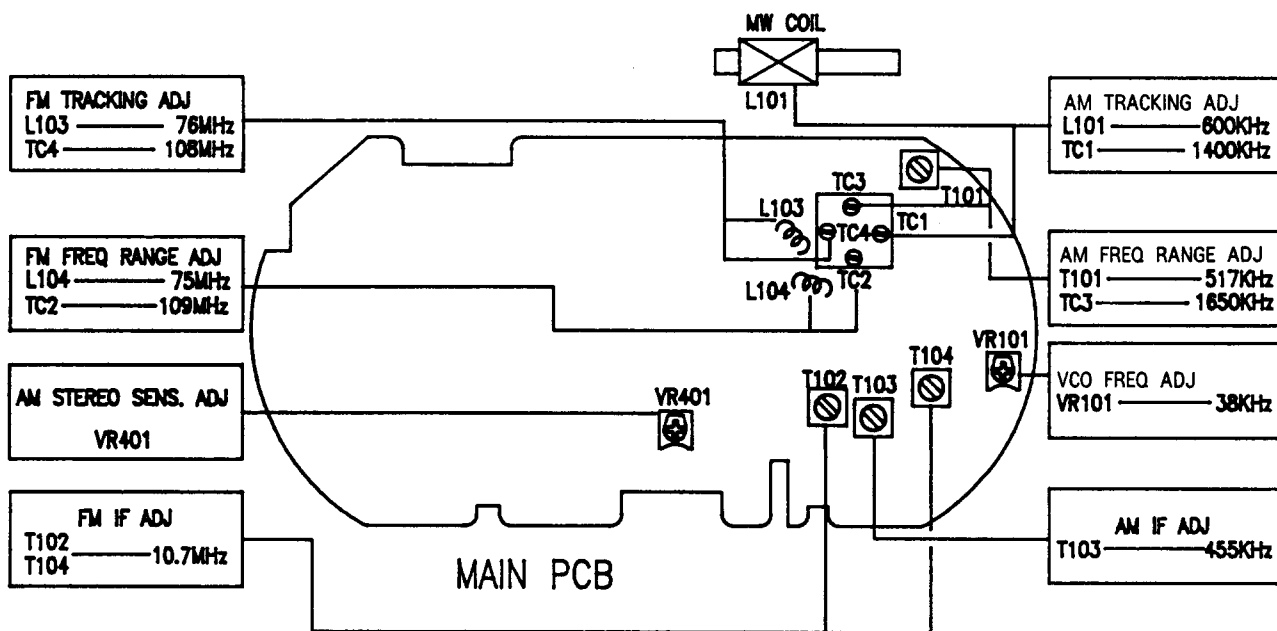
SCHEMATIC DIAGRAM - 6 (CD CONTROL)



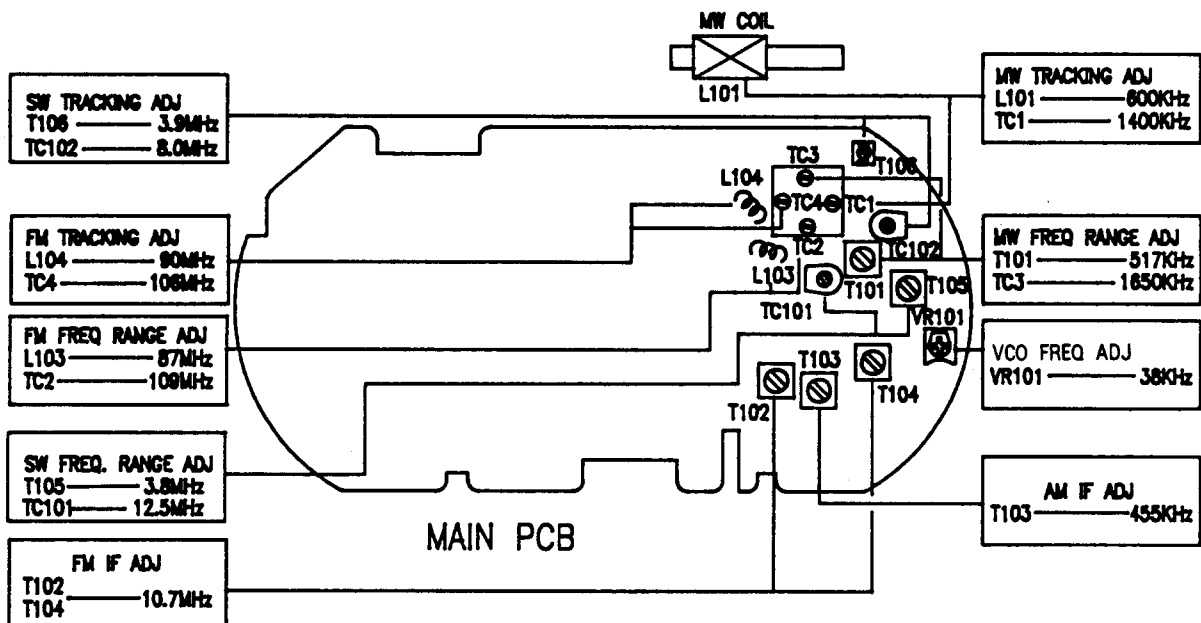
ADJUSTMENT

< TUNER SECTION >

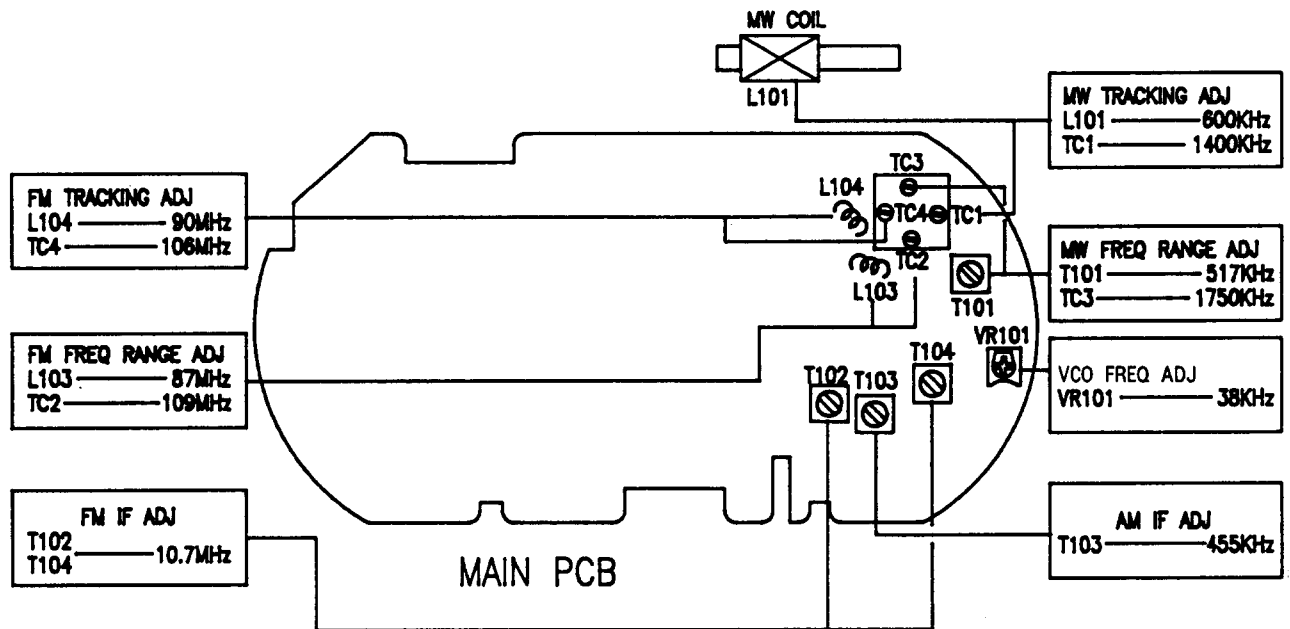
D :



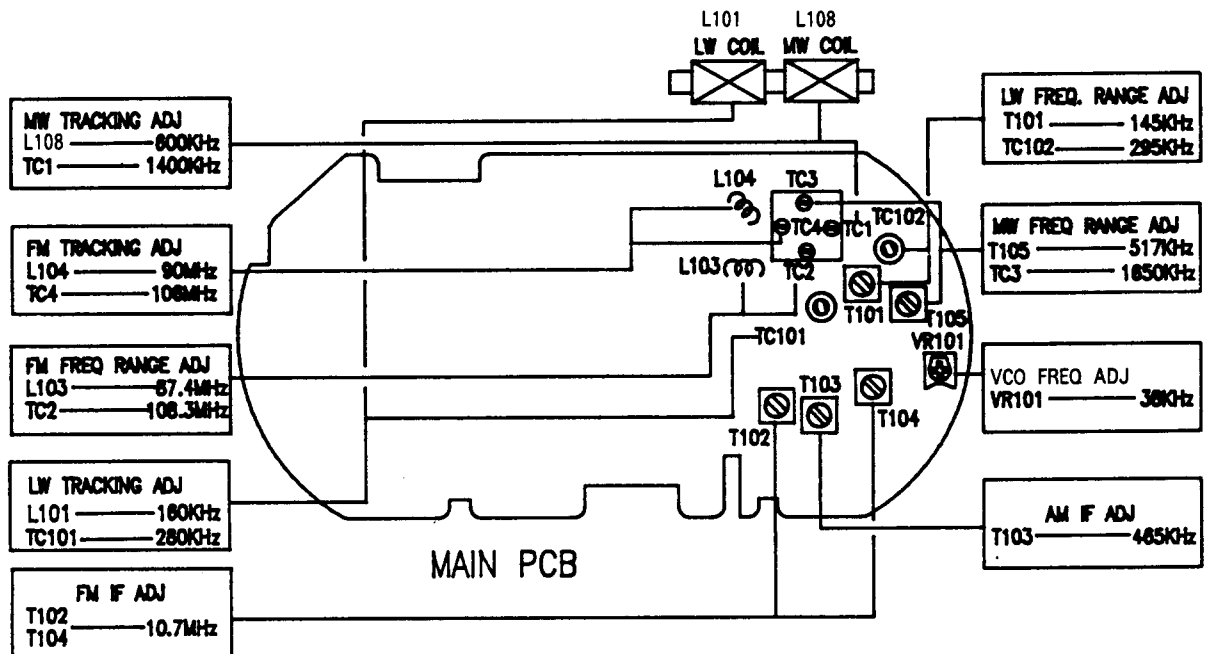
HR, LH :



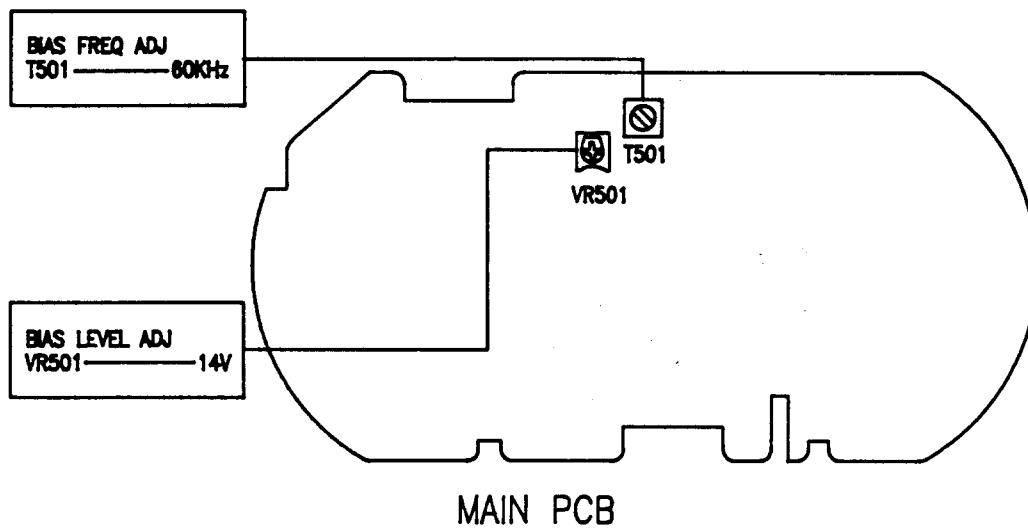
U :



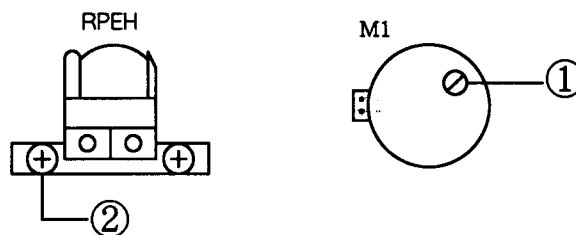
EEZ :



AUDIO :



< DECK SECTION >



< TAPE RECORDER SECTION >

1. テープスピード調整

条件 : •テストテープ : TTA-100 (TTA-111S)
•テストポイント : JK801 (PHONES ジャック)
•調整箇所 : モータ内SFR
方法 : テストテープを再生し、3,000Hzになる様に調整する。

2. アジマス調整

条件 : •テストテープ : TTA-320 (TTA-113B, TTC-152)
•テストポイント : JK801 (PHONES ジャック)
•調整箇所 : アジマス調整ネジ
方法 : テストテープを再生し、最大になる様に調整する。

1. Tape Speed Adjustment

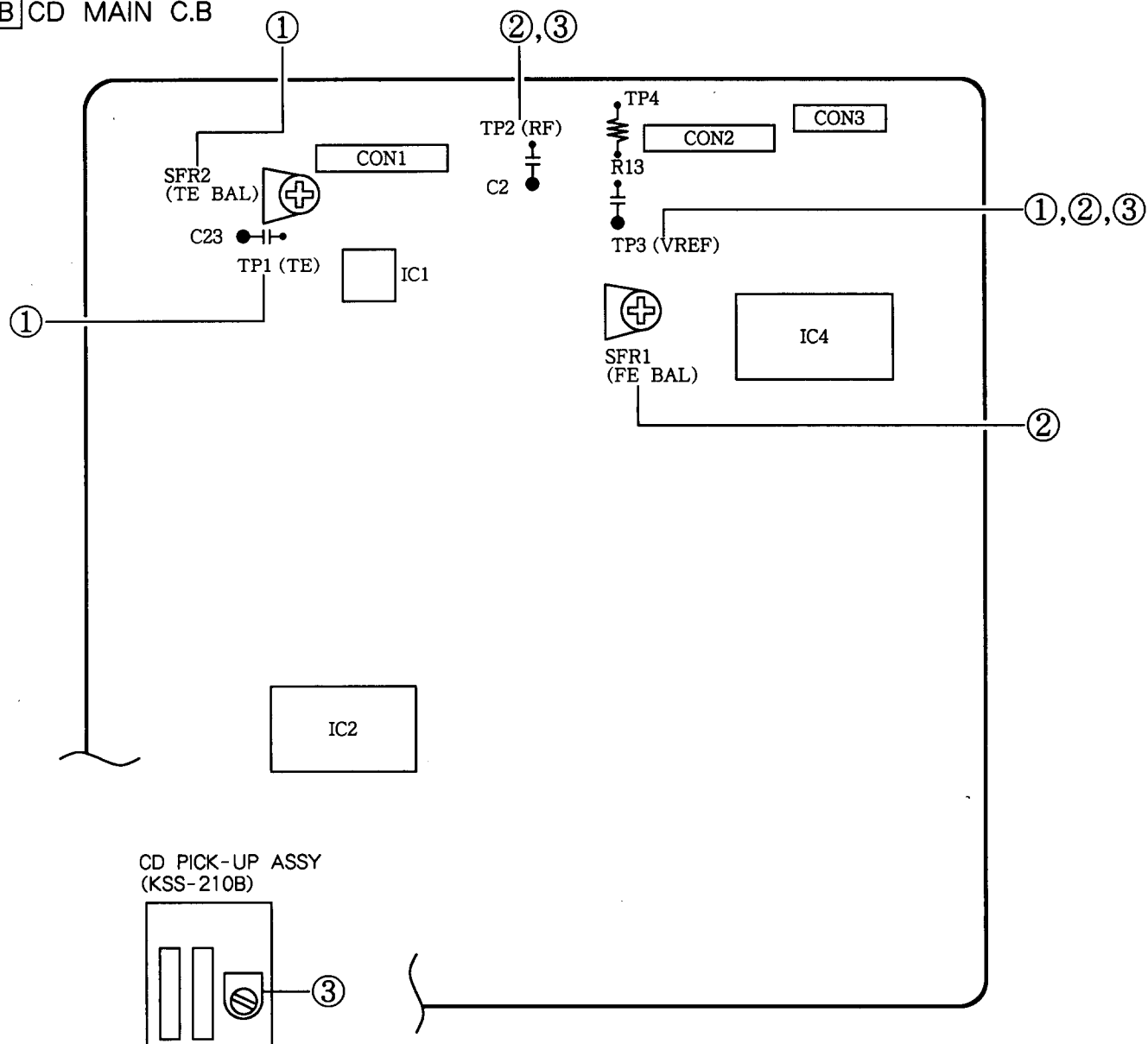
Condition : •Test tape : TTA-100 (TTA-111S)
•Test point : JK801 (PHONES jack)
•Adjustment location : SFR of deck motor
Method : Play back the test tape and adjust so that the output frequency is 3,000Hz.

2. Azimuth Adjustment

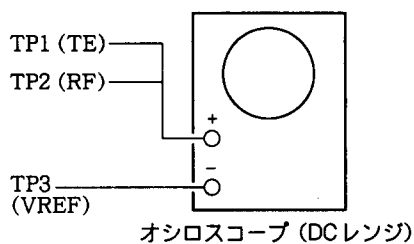
Condition : •Test tape : TTA-320
(TTA-113B and TTC-152)
•Test point : JK801 (PHONES jack)
•Adjustment location : Azimuth adjustment screw.
Method : Play back the 8kHz portion of the test tape and adjust so that the output is maximum.

< CD SECTION >

[B] CD MAIN C.B



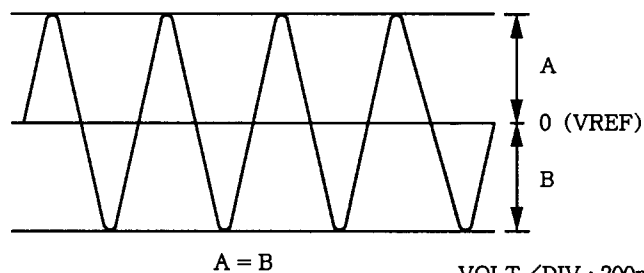
オシロスコープ接続図



各調整時には、オシロスコープの(－)側をTP3 (VREF) に接続すること。

1. トラッキングバランス調整
- (1) テストポイント TP1 (TE) と TP3 (VREF) にオシロスコープを接続する。
- (2) ディスク TCD-782 (YEDS-18) を入れ、PLAY ボタンを押す。
- (3) REPEAT ボタンを押して REPEAT モードにする。
- (4) ボタンを押し続ける。(SEARCH 状態)

(5) SFR2 (TB) を調整し、オシロスコープのトラバース波形を上下対称にする。

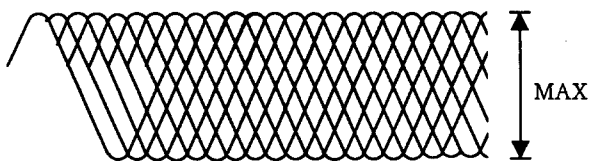


VOLT/DIV : 200mV
TIME/DIV : 1mS

PRACTICAL SERVICE FIGURE

2. フォーカスバランス調整

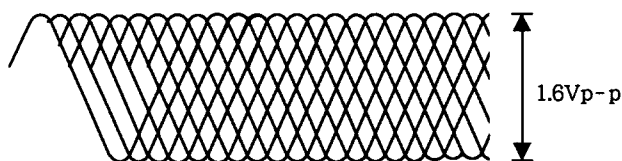
- (1) テストポイント TP2 (RF) と TP3 (VREF) にオシロスコープを接続する。
- (2) ディスク TCD-782 (YEDS-18) を入れPLAYボタンを押す。
- (3) SFR1 (FB) を調整し、オシロスコープの波形の振幅が最大、かつ中央のひし形が鮮明になる様にする。



VOLT/DIV: 200mV
TIME/DIV: 0.5 μs

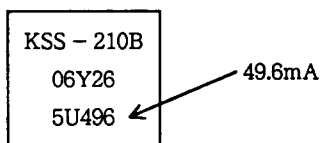
3. レーザーパワー調整

- (1) テストポイント TP2 (RF) と TP3 (VREF) にオシロスコープを接続する。
- (2) ディスク TCD-782 (YEDS-18) を入れPLAYボタンを押す。
- (3) レーザーピックアップ部のVR1を調整し、波高値を1.6Vp-pにする。



VOLT/DIV: 200mV
TIME/DIV: 0.5 μs

(注) レーザー電流の確認はTP4 (R13, 10 Ωの両端電圧) で行なえます。レーザーピックアップの裏側のラベルの電圧値に対して±6.0mAに入っていること。



$$\text{レーザー電流 } I_{op} = \frac{\text{R13 両端電圧}}{10 \Omega}$$

<ラジオ部>

雑音制限感度:

(THD 3%)

FM (75~109MHz)

22dB以下 (76, 92, 108MHz時)

(S/N 10dB)

AM (517~1650kHz)

54dB以下 (600, 1000, 1400kHz時)

中間周波数:

FM 10.7MHz

AM 450kHz

歪率:

3%以下

FMステレオ分離度: 24dB以上 (92MHz時)

AMステレオ分離度: 12dB以上 (1000kHz時)

S/N比: 30dB以上 (1000kHz時)

<テープレコーダー部>

周波数特性: 125Hz ± 6dB ~ 6.3kHz ± 6dB

歪率: 3%以下 (PB)

信号対雑音比: 35dB以上 (PB)

消去率: 30dB以上

雑音レベル: 40mV以下 (DC, PB, VOL. MAX.)

ワウ・フラッター: 0.35%以下 (RMS)

S/N比: 30dB以上

テープスピード: 3000Hz ± 1%

巻き取りトルク: 30~60g-cm (FWD, PLAY)

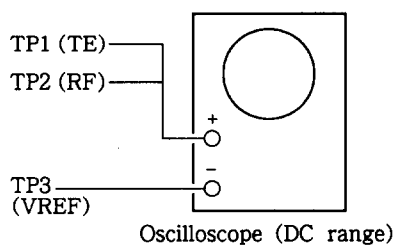
早送りトルク: 50~120g-cm

巻き戻しトルク: 50~120g-cm

テストテープ: TTA-100 (TTA-111S)

TTA-320 (TTA-113B, TTC-152)

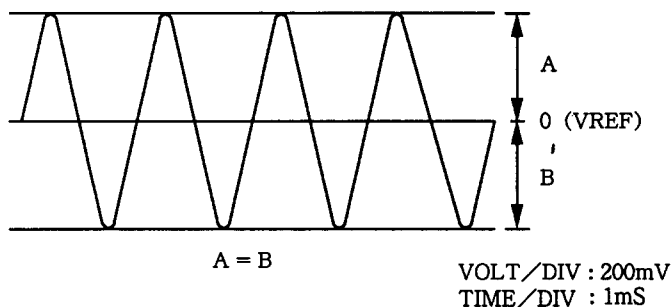
Connecting the Oscilloscope



Connect the negative side (-) of an oscilloscope to TP3 (VREF) when adjusting.

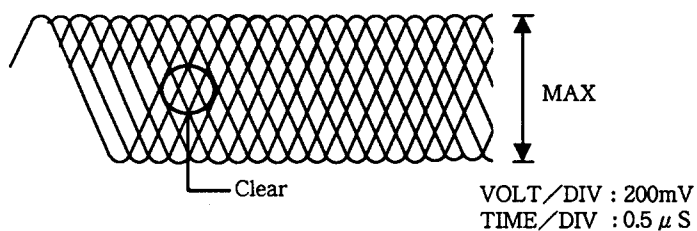
1. Tracking Balance Adjustment

- (1) Connect an oscilloscope to TP1 (TE) and TP3 (VREF).
- (2) Insert the TCD-782 (YEDS-18) disc and push the PLAY button.
- (3) Push the REPEAT button to set to the REPEAT mode.
- (4) Push and hold the  button. (SEARCH mode).
- (5) Adjust SFR2 (TB) to symmetrize the traverse waveform the to base line.



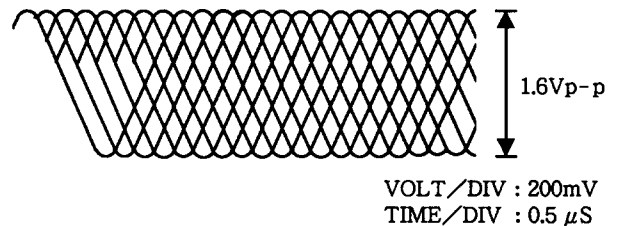
2. Focus Balance Adjustment

- (1) Connect an oscilloscope to TP2 (RF) and TP3 (VREF).
- (2) Insert the TCD-782 (YEDS-18) disc and push the PLAY button.
- (3) Adjust SFR1 (FB) so that the amplitude of the oscilloscope waveform is maximum, and clear.



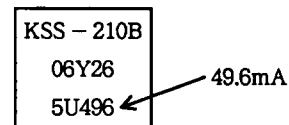
3. Laser Power Adjustment

- (1) Connect an oscilloscope to TP2 (RF) and TP3 (VREF).
- (2) Insert the TCD-782 (YEDS-18) disc and push the PLAY button.
- (3) Adjust VR1 on the optical block so that the amplitude 1.6Vp-p.



Note : Check the laser current at TP4 (across R13, 10 ohms).

The current must fall within $\pm 6.0\text{mA}$ of the value shown in the label on the laser pick-up.



$$\text{Laser current } I_{op} = \frac{\text{Voltage across R13}}{10 \Omega}$$

PRACTICAL SERVICE FIGURE

< RADIO SECTION >

< U Model >

Sensitivity :

(IHF, THD 3%)

FM (87~109MHz)

Less than 22dB

(at 88, 98, 108MHz)

(S/N 10dB)

AM (517~1710kHz)

Less than 54dB

(at 600, 1000, 1400kHz)

S/N ratio :

More than 30dB

(AM : at 1000kHz)

Distortion :

FM : Less than 3%

(at 98MHz)

AM : Less than 3%

(at 1000kHz)

FM stereo separation : More than 24dB (at 98MHz)

I. F. :

FM : 10.7MHz

AM : 455kHz

< EEZ Model >

Sensitivity :

(IHF, THD 3%)

FM (87.4~108.3MHz)

Less than 22dB

(at 90, 98, 106MHz)

(S/N 10dB)

MW (517~1650kHz)

Less than 54dB

(at 600, 1000, 1400kHz)

(S/N 10dB)

LW (145~295kHz)

Less than 64dB

(at 160, 200, 270kHz)

S/N ratio :

More than 30dB

(MW : at 1000kHz)

Distortion :

FM : Less than 3%

(at 98MHz)

MW : Less than 3%

(at 1000kHz)

LW : Less than 3%

(at 200kHz)

FM stereo separation : More than 24dB (at 98MHz)

I. F. :

FM : 10.7MHz

MW : 465kHz

LW : 465kHz

< LH Model >

Sensitivity :

(IHF, THD 3%)

FM (LH : 87~109MHz)

Less than 22dB

(at 88, 98, 108MHz)

(S/N 10dB)

MW (HR : 517~1650kHz,

LH : 517~1750kHz)

Less than 54dB

(at 600, 1000, 1400kHz)

(S/N 10dB)

SW (3.8~12.5MHz)

Less than 39dB

(LH : at 3.9, 8, 12MHz)

S/N ratio :

More than 30dB

(MW : at 1000kHz)

Distortion :

FM : Less than 3%

(at 98MHz)

MW : Less than 3%

(at 1000kHz)

FM stereo separation :

More than 24dB (at 98MHz)

I. F. :

FM : 10.7MHz

MW : 455kHz

SW : 455kHz

< TAPE RECORDER SECTION >

Frequency response : 125Hz $\pm$ 6dB ~ 6.3kHz $\pm$ 6dB

Erasing ratio : More than 30dB

Signal-to-noise : More than 35dB (PB)

Distortion : Less than 3% (PB)

S/N ratio : More than 30dB (PB, REC)

Noise (level) : Less than 40mV

(DC, PB, VOL. MAX.)

Tape speed : 3000Hz $\pm$ 1%

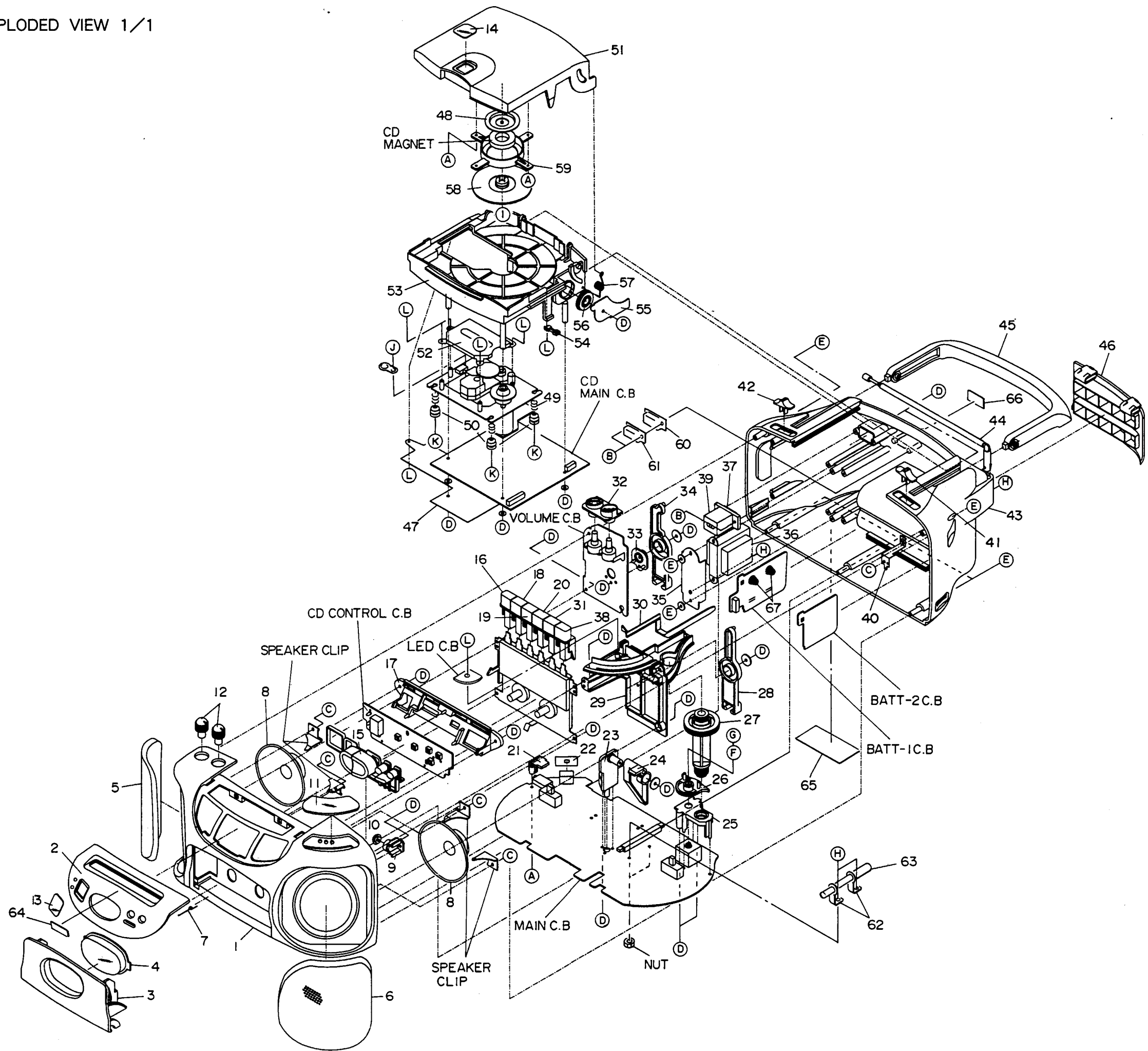
Wow & flutter : Less than 0.35% (RMS)

Take-up torque : 30~60g-cm (FWD, PLAY)

FF & REW torque : 50~120g-cm

Test tape : TTA-100 (TTA-111S)

TTA-320 (TTA-113B, TTC-152)

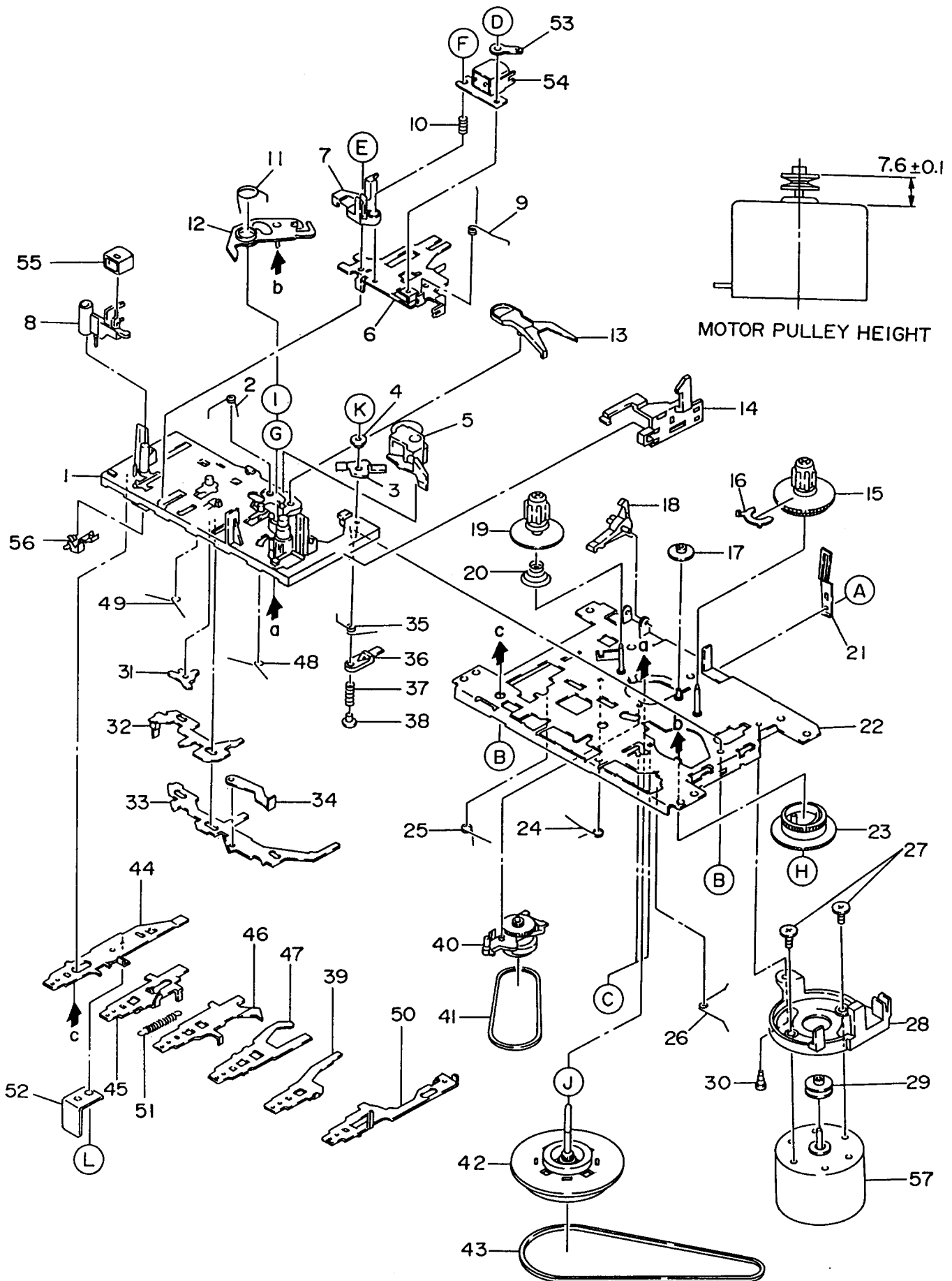


MECHANICAL PARTS LIST 1/1

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

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	S7-438-010-200	--	CAB. FRONT	△37	S1-171-000-020	--	SOCKET, AC(J1)<LH, B>
1	S7-438-010-400		CAB. FRONT<EEZL>	38	S7-438-170-000	OE	KNOB, REC(B)CSDEX110
1	S7-438-010-300		CAB. FRONT(HR,J)CSDEX110 <HR, LH, U, EEZB>	39	S2-838-070-000	OE	AC SOCKET COVER BLK
2	S7-438-110-100		COVER FRONT(B)CSDEX110 <EXCEPT B>	40	S7-438-680-000	OE	PLATE, ANT ROD
2	S7-438-110-200	--	COVER, FRONT	41	S7-438-300-000	OE	KNOB, BAND(GRA)CSDEX110
3	S7-438-060-100		DOOR, CASS<HR, LH, U, EEZB>	42	S7-438-310-000	OE	KNOB, FUN(CGRA)CSDEX110
3	S7-438-060-300		DOOR, CASS<EEZL>	43	S7-438-020-200	--	CAB. BACK
3	S7-438-060-600	--	DOOR, CASS	43	S7-438-020-300		CAB. BACK<EEZB>
4	S7-438-100-000	OE	LENS, DOOR CASS	43	S7-438-020-600		CAB. BACK<EEZL>
5	S7-438-510-010	1B	GRILL, SPKR(L)CSDEX110	43	S7-438-020-400		CAB. BACK(HR)CSDEX110<HR, LH>
6	S7-438-520-010	1B	GRILL, SPKR(R)CSDEX110	43	S7-438-020-100		CAB. BACK(U)CSDEX110<U>
7	S7-438-710-000	OE	SPR, DOOR CASS	44	S0-172-380-000	1D	POD ANTENNA
8	S3-080-030-100	1C	SPEAKER(SP1, 2)	45	S7-438-080-010	1B	HANDLE 7438-08<EXCEPT EEZL>
9	S7-438-180-000	OE	HLDR, GEAR	45	S7-438-080-020		HANDLE BLU<EEZL>
10	S9-238-060-000	OE	GEAR	46	S7-438-070-020		DOOR, BATT BLU<EEZL>
11	S7-438-090-300		LENS, DIAL<EEZB, EEZL>	46	S7-438-070-010	1D	DOOR, BATTERY<EXCEPT EEZL>
11	S7-438-090-200	--	LENS, DIAL	47	S7-238-680-000	OE	FIBRE PAPER
11	S7-438-090-500		LENS, DIAL(HR)CSDEX110<HR>	48	S7-438-570-000	OE	MOUNTING, PLATE CHUCK CD
11	S7-438-090-400		LENS, DIAL(LH)CSDEX110<LH>	49	S7-238-870-000	OE	SPRING, CUSH CD
11	S7-438-090-100		LENS, DIAL(U)CSDEX110<U>	50	S7-238-600-000	OE	MAT CD CUSHION
12	S7-438-290-000	OE	KNOB, VOR/TONE(GRA)CSDEX110	51	S7-438-050-300		DOOR, CD<EEZL>
13	S7-438-470-100	OE	LENS, DISPLAY 7438-47-01	51	S7-438-050-100	1H	DOOR, CD<EXCEPT EEZL>
14	S7-438-490-100	OE	LENS, DOOR CD 7438-49-01	52	S7-438-560-000	1A	COVER METAL PICK-UP CD
15	S7-438-270-010	1C	BTN, CONTROL CD	53	S7-438-030-000	1C	TRAY, CD(GRA)
16	S7-438-120-000	OE	KNOB, PAUSE(B)CSDEX110	54	S0-011-200-000	1A	SW, LEAF LSA-1120Y
17	S7-438-370-000	OE	BRKT, PCB CD	55	S7-438-550-000	OE	BRKT, CD DOOR GEAR METAL
18	S7-438-130-000	OE	KNOB, S/E(B)CSDEX110	56	S7-238-140-000	OE	GEAR, DOOR CD
19	S7-438-140-000	OE	KNOB, F. FWD(B)CSDEX110	57	S7-238-560-000	OE	SPRING DOOR CD
20	S7-438-150-000	OE	KNOB, REW(B)CSDEX110	58	S7-438-210-000	1A	CHUCK, CD(BLK)
21	S7-238-630-000	OE	HOLDER JACK	59	S7-438-220-000	OE	HLDR, CHUCK CD
22	S7-238-660-000	OE	PLATE, SWITCH	△60	S1-200-000-010		SW, SLIDE SS-12J01M<HR, LH>
23	S7-438-250-000	OE	HLDR, PUSHER RECORD	61	S2-838-080-000		COVER SWITCH VOLTAGE<HR, LH>
24	S7-438-240-000	OE	PUSHER, RECORD	62	S2-500-000-000	OE	HOLDER, BAR ANT
25	S7-438-360-000	--	HLDR, PVC<U, B>	63	S0-100-900-000	OE	FERRITE BAR 10-90
25	S7-438-350-000		HLDR, PVC<EXCEPT U, B>	64	S9-238-790-000	OE	AIWA LOGO
26	S7-438-230-000	OE	DRUM, DIAL	65	S7-438-900-400		PLATE BACK<EEZB, EEZL>
27	S7-438-280-000	1B	KNOB, TUN CSDEX110	65	S7-438-900-500		PLATE, BACK<HR>
28	S7-438-340-000	--	LEVER KNOB BAND<U, B>	65	S7-438-900-600		PLATE, BACK<LH>
28	S7-438-330-000		LEVER, KNOB BAND<EXCEPT U, B>	65	S7-438-900-100		PLATE, BACK(U)<U>
29	S7-438-040-000	1A	BRKT, DIAL(GRA)	66	S7-438-480-000	--	PLATE, SWITCH VOLTAGE <EXCEPT HR, LH>
30	S7-438-260-000	OE	POINTER DIAL	67	S7-238-620-000	OE	BATTERY, SPRING
31	S7-438-160-000	OE	KNOB, PLAY(B)CSDEX110	A	87-751-074-010	OE	VT2+2, 6-8MM
32	S7-438-320-010	OE	HLDR, VR/TONE CSDEX110	B	87-353-075-010	OE	SCREW, ST2. 6-10
33	S7-438-190-000	OE	HLDR, LEVER KNOB FUNCTION	C	87-751-096-010	OE	VT2+3-8MM
34	S7-438-380-000	OE	LEVER, KNOB FUNC	D	87-741-096-410	OE	VT2+3-10MM
35	S7-438-580-000	OE	PLATE, TRANSFORMER METAL	E	87-741-104-410	OE	VT2+3-30MM
△36	S3-530-301-300		POWER, TRANS (PT1)<HR>	F	S1-030-000-000	OE	WASHER, TOOH 3MM
△36	S3-330-300-510	1H	PT (PT1)	G	87-267-073-010	OE	SCREW, 2. 6-6
△36	S3-102-310-210		PT 120V(PT1)<U>	H	87-741-096-010	OE	V+3-10MM
△36	S3-830-301-200		PT(PT1)<EEZB, EEZL>	I	87-384-033-010	OE	SCREW, 2-4
△36	S3-530-300-700		PT, 115-230V(PT1)<LH>	J	87-351-551-010	OE	V+2-5MM
△37	S1-171-001-000		SOCKET AC(J1)<U>	K	S0-472-380-000	OE	SCREW, S2-17 W/WASHER
△37	S2-201-000-050		SOCKET, AC 250V(J1) <HR, EEZB, EEZL>	L	S0-502-000-520	OE	SCREW, ST2-5

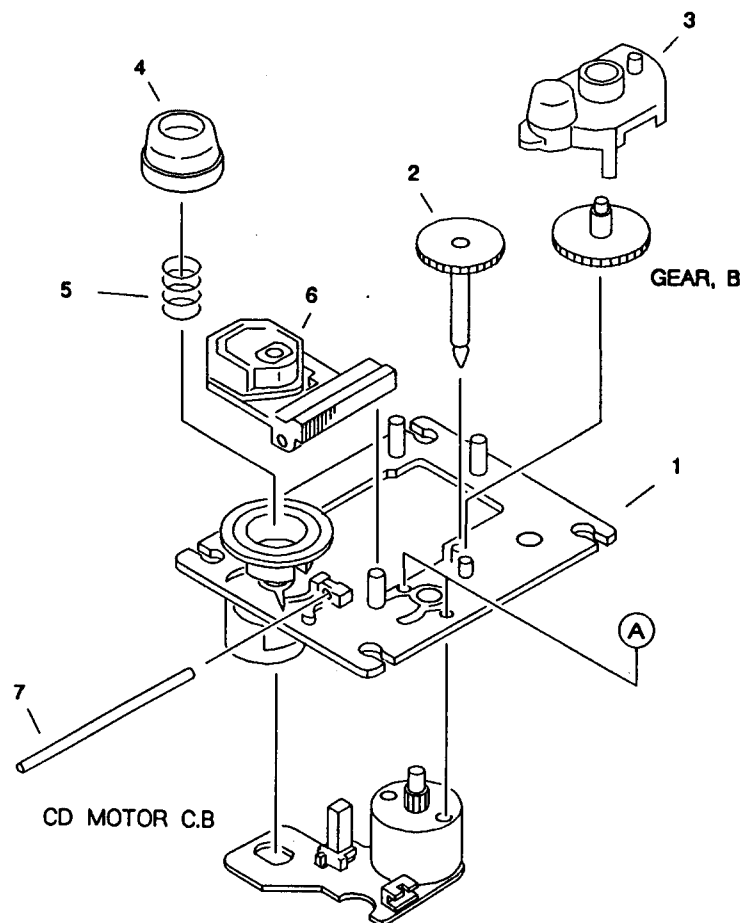
TAPE MECHANISM EXPLODED VIEW 1/1



TAPE MECHANISM PARTS LIST 1/1

REF. NO	PART NO.	ナツリ NO.	DESCRIPTION
1	S1-921-143-010	0E	BASE ASSY
2	S1-921-141-8A0	0E	M-SPRING, CONTROL
3	S1-921-140-340	0E	ARM, P
4	S1-921-140-370	0E	COLLAR, P ARM
5	S1-921-043-090	1C	PINCH ROLLER ARM ASSY
6	S1-921-030-110	1A	PANEL, HEAD
7	S1-921-030-4A0	0E	BASE, HEAD
8	S1-921-030-050	0E	ARM, MG
9	S1-921-030-030	0E	P-SPRING, PANEL
10	S1-821-030-070	0E	SPRING, AZIMUTH
11	S1-921-260-050	0E	SPRING, GEAR PLATE
12	S1-921-265-020	0E	GEAR PLATE ASSY
13	S1-921-260-4A0	0E	LEVER, SENSING
14	S1-921-130-010	0E	LEVER, EJECT SLIDE
15	S1-921-053-030	1F	TAKE UP REEL ASSY
16	S1-921-050-060	0E	SENSOR
17	S1-821-100-700	0E	GEAR, FF
18	S1-821-100-690	1C	LEVER, REC SAFETY
19	S1-921-053-040	1E	SUPPLY REEL ASSY
20	S1-829-100-100	0E	SPRING, BACK TENSION
21	S1-829-100-010	0E	SPRING, PACK
22	S1-921-015-010	0E	CHASSIS ASSY
23	S1-921-260-020	1B	GEAR, CAM
24	S1-921-140-210	1A	SPRING, REC BUTTON LEVER
25	S1-921-140-170	1H	SPRING, P. S LEVER
26	S1-921-140-160	0E	SPRING, E ACTUATOR
27	S1-921-120-020	0E	SCREW, MOTOR COLLAR
28	S1-821-128-9A0	0E	BRACKET, MOTOR
29	S1-921-120-010	0E	PULLEY, MOTOR
30	S1-921-120-030	0E	SCREW, MB
31	S1-921-140-200	1A	STOPPER, PR
32	S1-921-140-090	0E	ACTUATOR, SWITCH
33	S1-921-140-080	1E	ACTUATOR, PUSH BUTTON
34	S1-821-011-590	0E	LEVER, E KICK
35	S1-921-141-3A0	1C	P-SPRING, CONTROL
36	S1-921-140-550	2B	LEVER, PAUSE E
37	S1-921-140-120	0E	SPRING, PAUSE LEVER
38	S1-921-140-110	1H	STOPPER, PAUSE
39	S1-921-140-060	0E	LEVER, STOP BUTTON
40	S1-921-073-040	1F	RF CLUTCH ASSY
41	S1-921-070-030	1C	BELT, RF
42	S1-921-093-030	0E	FLYWHEEL ASSY
43	S1-921-090-040	1C	BELT, MAIN
44	S1-921-140-030	0E	LEVER, REC BUTTON
45	S1-921-140-190	0E	LEVER, PLAY BUTTON
46	S1-921-140-040	0E	LEVER, REW BUTTON
47	S1-921-140-050	0E	LEVER, FF BUTTON
48	S1-921-140-150	0E	SPRING, BUTTON LEVER B
49	S1-921-140-140	1F	SPRING, BUTTON LEVER A
50	S1-921-140-600	0E	LEVER, PAUSE BUTTON
51	S1-821-010-500	0E	SPRING, PLAY BUTTON LEVER
52	S1-510-020-020	0E	PLATE, REC SPRING
53	S9-480-000-000	0E	PLATE, LUG
54	S6-201-010-750	2A	R. P. HEAD(RPH)
55	S6-209-110-100	1B	E HEAD(EH)
56	S6-401-011-490	1B	SW, LEAF MSW-1541T(MOTOR) (SW6)
57	S6-002-030-220	2M	MOTOR(DECK) (M1)
A	S9-P33-200-320	0E	SCREW, DEL TITE M2-3
B	S9-679-000-000	0E	SCREW, P TAPPING M2-5
C	S9-999-180-090	0E	SCREW, TAPPING M2-4. 5
D	S9-115-000-000	0E	SCREW, #M2-3 BIND
E	S9-004-000-000	0E	SCREW, M2-6
F	S9-922-000-000	0E	SCREW, AZIMUTH M2-8
G	S9-999-000-030	0E	PW2. 1-4-0. 13
H	S9-422-000-000	0E	PW1. 2-3. 8-0. 3 CUT
I	S9-999-030-130	0E	PW1. 45-3. 8-0. 5 CUT
J	S9-882-000-000	0E	PW2-3. 5-0. 4
K	S9-999-200-410	0E	SCREW, P TAPPING M2-3
L	S9-179-000-000	0E	SCREW, C TAPPING 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	9X-262-513-310	2C	T. T CHASS ASSY W/MOTOR	6	98-848-137-210	2G	OPTICAL PICK UP KSS-210B
2	92-625-188-020	1D	GEAR (A)	7	94-917-565-010	2M	SHAFT SLED
3	92-625-544-010	1H	COVER	A	87-261-032-210	0E	V+2-3
4	92-625-187-010	1B	RING CENTER				
5	92-625-191-010	1B	SPRING COMPRESSION				

■ 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.	カソリ NO.	DESCRIPTION
1	S7-438-960-310		INSTRUC BOOK (CSDEX110HR) <HR>
1	S7-438-960-410		INSTRUC BOOK (CSDEX110LH) <LH>
1	S7-438-960-500		INSTRUC BOOK (CSDEX110U) <U>
1	S7-438-960-200		INSTRUCTION BOK <EEZB, EEZL>
1	S7-438-960-100	--	INSTRUCTION BOK
2	S2-201-100-000		CORD POWER 6 VDE APP CORD SET <HR, EEZB, EEZL>
2	S1-171-101-000		CORD POWER SET <U>
2	S1-171-100-000		CORD, POWER <LH>
2	S1-001-100-000	1C	CORD, POWER SET
3	S0-117-220-000		CONVERTOR 117V-220V <LH>
3	S0-220-117-000		CONVERTOR 220V-117V JR2812 <HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G — —	
G — —	
G — —	

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AIWA CO., LTD.

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Tokyo Japan