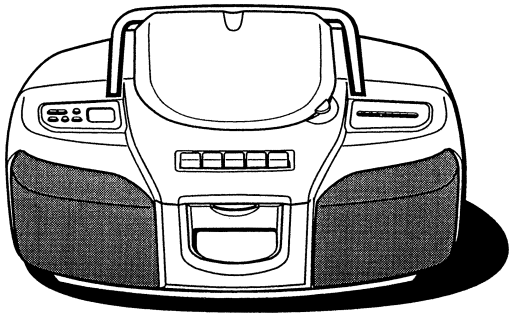
aiwa
SERVICE

CSD-A120

U(S),K(S)
HS(S),HRJ(S)
EZ(S),LH(S)
HRJ(L),HRJ(P)

CSD-A140

LH(S)



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : TN-9ZR-219
BASIC CD MECHANISM : DA11T3C

aiwa

S/M Code No. 09-014-356-0N1

DATA

SPECIFICATIONS

120HR, K, E, HS MODEL

Tuner section
Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530 - 1,605 kHz Ferrite bar antenna

Deck section
Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 8,000 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)

General (120HR MODEL)
Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 1.5 W + 1.5 W (EIAJ 8 ohms, T.H.D. 10% DC), 1.2 W + 1.2 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size D (R20) batteries, AC 110-120 V/220-240V switchable, 50/60 Hz / Power consumption —12 W / Dimensions (W × H × D) — 370 × 193 × 219 mm / Weight — 2.35 kg (excluding batteries)

General (120K MODEL)
Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 1.5 W + 1.5 W (EIAJ 8 ohms, T.H.D. 10% DC), 1.2 W + 1.2 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size D (R20) batteries. AC 230 V. 50 Hz / Power consumption — 13 W / Dimensions (W × H × D) — 370 × 193 × 219 mm / Weight — 2.35 kg (excluding batteries)

General (120E MODEL)
Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 3.2 W + 3.2 W (DIN MUSIC POWER), 1.5 W + 1.5 W (EIAJ 8 ohms, T.H.D. 10% DC), 1.2 W + 1.2 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size D (R20) batteries, AC 230 V, 50 Hz / Power consumption — 13 W / Dimensions (W × H × D) — 370 × 193 × 219 mm / Weight — 2.35 kg (excluding batteries)

General (120HS MODEL)
Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 1.5 W + 1.5 W (EIAJ 8 ohms, T.H.D. 10% DC) / Power requirements — DC 12 V using eight size D (R20) batteries, AC 220 V, 60 Hz / Power consumption —12 W / Dimensions (W × H × D) — 370 × 193 × 219 mm / Weight — 2.35 kg (excluding batteries)

- Design and specifications are subject to change without notice.

120LH, 140LH MODEL

Tuner section
Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530 - 1,710 kHz Ferrite bar antenna

Deck section
Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 8,000 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)

General
Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 1.5 W + 1.5 W (EIAJ 8 ohms, T.H.D. 10% DC), 1.2 W + 1.2 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size D (R20) batteries, AC 110-120 V/220-240V switchable, 50/60 Hz / Power consumption —12 W / Dimensions (W × H × D) — 370 × 193 × 219 mm / Weight — 2.35 kg (excluding batteries)

- Design and specifications are subject to change without notice.

120U MODEL

Tuner section
Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530 - 1,710 kHz Ferrite bar antenna

Deck section
Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 8,000 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)

General
Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 1.5 W + 1.5 W (EIAJ 8 ohms, T.H.D. 10% DC) / Power requirements — DC 12 V using eight size D (R20) batteries, AC 120 V, 60 Hz / Power consumption — 11 W / Dimensions (W × H × D) — 370 × 193 × 219 mm ($14\frac{5}{8} \times 7\frac{5}{8} \times 8\frac{5}{8}$ in.) / Weight — 2.35 kg (5 lbs. 3 oz.) (excluding batteries)

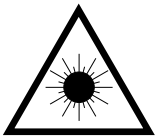
- Design and specifications are subject to change without notice.

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: Usynling 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 ylittävälle 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 radiation exposure.

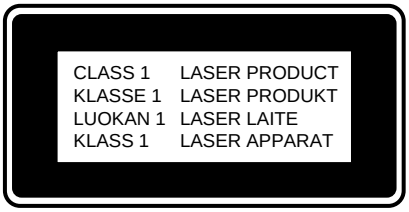
ATTENTION

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

ADVARSEL!

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

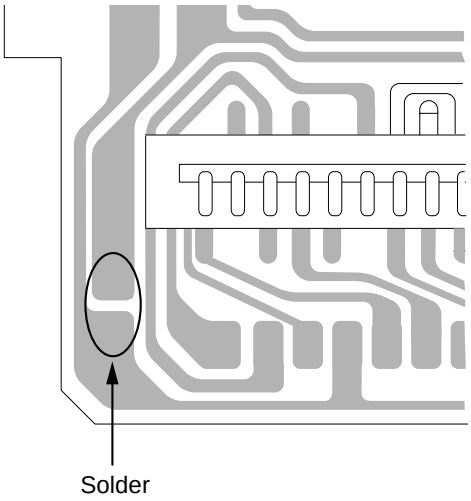
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

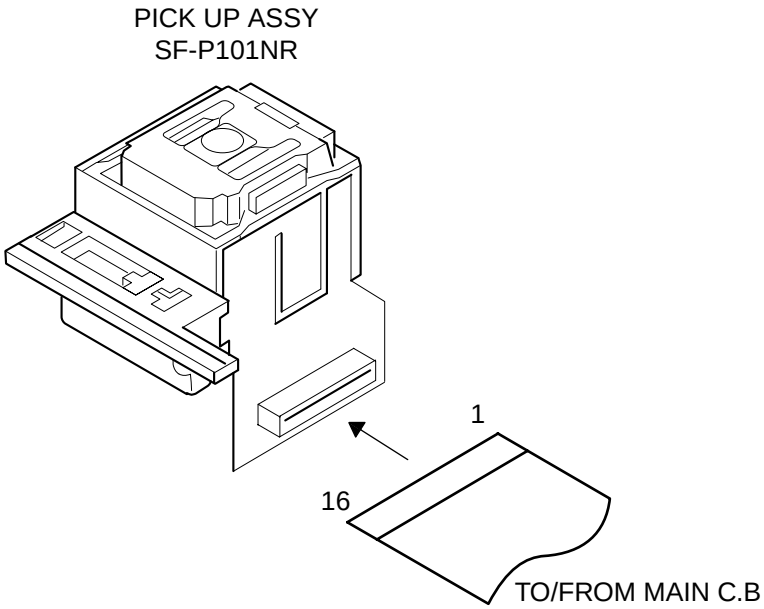


Precaution to replace Optical block (SF-P101NR)

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-1/3

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-271-010		IC,TA2111N<USC>
	87-A20-212-010		IC,TA8127N<EXCEPT USC>
	87-A20-569-010		IC,BA3308
	8B-CDC-618-010		C-IC,LA9250ML
	8B-CDC-619-010		C-IC,LC78602E
	8B-CDC-636-010		C-IC,MM1469XH
	8B-CDC-621-010		IC,UTC6650
	87-A21-193-010		IC,TA8227P
	87-A21-241-010		IC,MC14551BCP<140LHSC>
TRANSISTOR			
	8B-CDC-616-010		TR,3CG9012
	8B-CDC-611-010		TR,2SD1936
	8B-CDC-617-010		TR,3DG9013
	89-318-155-080		TR,2SC1815GR
	8A-RU2-602-010		TR,3DA8050
	87-A30-015-080		TR,2SA1317(T/U)
	87-026-215-080		TR,DTC114YS
	8B-CDC-613-010		TR,2SA1346
	8B-CDC-614-010		TR,2SB764
	8A-RU2-604-010		TR,3CA8550
	8B-RD3-607-010		TR,2SB562B
	87-A30-090-080		FET,2SK2541
	87-A30-168-010		TR,2SB1566F
DIODE			
	87-070-345-080		DIODE,IN4148
	8Z-CA3-615-010		DIODE,1S2638<EXCEPT USC>
	8B-CDC-631-010		ZENER,BZX55C6V8CECCL
	8B-CDC-622-010		DIODE,GMB01
	87-020-465-080		DIODE,1SS133(T-72)<USC>
	8B-CDC-630-010		ZENER,WZ-033
	87-A40-398-010		DIODE,1N4001
MAIN C.B			
C101	87-A11-875-010		CAP,CER 24P-50 J SL<USC>
C101	87-A11-849-080		CAP,CER 27P-50 J CH<EXCEPT USC>
C103	87-A11-875-010		CAP,CER 24P-50 J SL
C104	88-254-242-010		CAP,CER 30P-50 J CH HE50S JCH
C105	87-A10-577-010		CAP,CER 0.022-50 Z YF
C106	87-A10-139-010		CAP,CER 18P-50 K CH<EXCEPT USC>
C106	88-RU7-634-010		CAP,CER 20P-50 J CH<USC>
C107	87-A10-577-010		CAP,CER 0.022-50 Z YF<USC>
C108	88-RU7-634-010		CAP,CER 20P-50 J CH <EXCEPT 120LHSC,140LHSC>
C108	87-A11-847-080		CAP,CER 22P-50 J CH<140LHSC>
C108	87-A11-848-080		CAP,CER 24P-50 J CH<120LHSC>
C109	87-A10-129-010		CAP,CER 3P-50 K CH
C110	87-A10-577-010		CAP,CER 0.022-50 Z YF<120LHSC,140LHSC>
C113	87-010-265-080		CAP, ELECT 33-16V
C114	87-010-400-010		CAP, ELECT 0.47-50SME<EXCEPT USC>
C115	87-010-400-010		CAP, ELECT 0.47-50SME
C116	87-A10-176-010		CAP,CER 1000P-50 M D<EXCEPT USC>
C116	87-A11-146-080		CAP,TC U 0.022-50 Z F<USC>
C117	87-010-401-080		CAP, ELECT 1-50V<EXCEPT USC>
C118	87-010-401-080		CAP, ELECT 1-50V<USC>
C118	87-010-403-080		CAP, ELECT 3.3-50V<EXCEPT USC>
C119	87-010-400-010		CAP, ELECT 0.47-50SME<USC>
C119	87-010-401-080		CAP, ELECT 1-50V<EXCEPT USC>
C120	87-A10-176-010		CAP,CER 1000P-50 M D
C121	87-A10-577-010		CAP,CER 0.022-50 Z YF<EXCEPT USC>
C122	87-A10-577-010		CAP,CER 0.022-50 Z YF<EXCEPT USC>
C123	87-A12-366-080		CAP,M 0.015-100 J CP
C124	87-A12-366-080		CAP,M 0.015-100 J CP
C125	87-010-545-080		CAP, ELECT 0.22-50V
C126	87-010-545-080		CAP, ELECT 0.22-50V<USC,140LHSC>
C127	87-A12-365-080		CAP,M 0.012-100 J CP<EXCEPT KSC,EZSC>
C127	87-A12-362-080		CAP,M 6800P-100 J CP<KSC,EZSC>
C128	87-A12-365-080		CAP,M 0.012-100 J CP <EXCEPT KSC,EZSC,140LHSC>
C128	87-A12-362-080		CAP,M 6800P-100 J CP<KSC,EZSC>
C129	87-A10-577-010		CAP,CER 0.022-50 Z YF
C130	87-A10-577-010		CAP,CER 0.022-50 Z YF<EXCEPT USC>
C140	87-A11-145-080		CAP,TC U 0.01-50 Z F<EXCEPT 140LHSC>
C141	87-A11-148-080		CAP,TC U 0.1-50 Z F<EXCEPT USC,140LHSC>
C142	87-A11-145-080		CAP,TC U 0.01-50 Z F<EXCEPT 140LHSC>
C143	87-A10-176-010		CAP,CER 1000P-50 M D<USC>
C144	87-A11-145-080		CAP,TC U 0.01-50 Z F<USC>
C145	87-A11-145-080		CAP,TC U 0.01-50 Z F<USC>
C152	87-A11-145-080		CAP,TC U 0.01-50 Z F<USC>
C155	87-A10-176-010		CAP,CER 1000P-50 M D <EXCEPT USC,140LHSC>
C180	87-010-248-010		CAP, ELECT 220-10V
C313	87-010-401-080		CAP, ELECT 1-50V
C314	87-010-401-080		CAP, ELECT 1-50V
C361	87-010-248-010		CAP, ELECT 220-10V
C362	87-010-263-080		CAP, ELECT 100-10V
C401	87-010-405-080		CAP, ELECT 10-50V
C402	87-A10-182-010		CAP,CER 0.01-50 Z F
C403	87-010-248-080		CAP, ELECT 220-10V
C403	87-010-248-080		CAP, ELECT 220-10V
C404	87-010-260-080		CAP, ELECT 47-25V
C405	87-A10-182-010		CAP,CER 0.01-50 Z F
C406	87-010-263-080		CAP, ELECT 100-10V
C407	87-010-546-080		CAP, ELECT 0.33-50V
C408	87-A10-182-010		CAP,CER 0.01-50 Z F
C409	87-010-263-080		CAP, ELECT 100-10V
C410	87-A12-370-080		CAP,M 0.033-100 J CP
C411	87-010-405-080		CAP, ELECT 10-50V
C413	87-010-263-080		CAP, ELECT 100-10V
C414	87-010-402-080		CAP, ELECT 2.2-50V
C415	87-A12-370-080		CAP,M 0.033-100 J CP
C419	87-A10-182-010		CAP,CER 0.01-50 Z F
C420	87-010-402-080		CAP, ELECT 2.2-50V
C424	87-A12-370-080		CAP,M 0.033-100 J CP
C426	87-010-544-080		CAP, ELECT 0.1-50V
C427	87-A10-179-010		CAP,CER 3300P-50 M E
C428	87-A12-371-080		CAP,M 0.039-100 J CP
C429	87-A11-782-080		CAP,M 0.1-100 J
C430	87-A11-782-080		CAP,M 0.1-100 J
C431	87-A10-176-010		CAP,CER 1000P-50 M D
C432	87-A11-782-080		CAP,M 0.1-100 J
C433	87-A12-370-080		CAP,M 0.033-100 J CP
C434	87-A10-179-010		CAP,CER 3300P-50 M E
C436	87-010-545-080		CAP, ELECT 0.22-50V
C437	87-010-401-080		CAP, ELECT 1-50V
C438	87-A10-179-010		CAP,CER 3300P-50 M E
C439	87-010-260-080		CAP, ELECT 47-25V
C440	87-A11-782-080		CAP,M 0.1-100 J
C441	87-A10-577-010		CAP,CER 0.022-50 Z YF
C442	87-010-221-080		CAP, ELECT 470-10V
C443	87-A10-182-010		CAP,CER 0.01-50 Z F
C444	87-010-263-080		CAP, ELECT 100-10V
C445	87-A10-577-010		CAP,CER 0.022-50 Z YF
C448	87-010-544-080		CAP, ELECT 0.1-50V
C453	87-A10-577-010		CAP,CER 0.022-50 Z YF
C454	87-010-263-080		CAP, ELECT 100-10V
C456	87-010-370-040		CAP,E 330-6.3 SME
C457	87-010-221-080		CAP, ELECT 470-10V
C459	87-010-263-080		CAP, ELECT 100-10V
C460	87-010-236-080		CAP,E 1000-10 SME
C461	87-010-403-080		CAP, ELECT 3.3-50V
C462	87-010-403-080		CAP, ELECT 3.3-50V
C465	87-A10-210-010		CAP,CER 0.047-50 M
C466	87-A10-176-010		CAP,CER 1000P-50 M D
C467	87-A10-182-010		CAP,CER 0.01-50 Z F

ELECTRICAL MAIN PARTS LIST-2/3

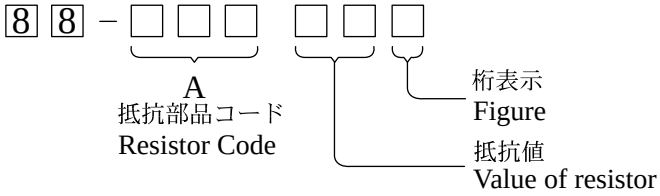
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C481	87-A11-145-080		CAP,TC U 0.01-50 Z F<USC>
C484	87-A10-176-010		CAP,CER 1000P-50 M D <EXCEPT USC,EZSC,140LHSC>
C485	87-A11-145-080		CAP,TC U 0.01-50 Z F <EXCEPT 120LHSC,USC,140LHSC>
C486	87-010-263-080		CAP, ELECT 100-10V<EXCEPT KSC,EZSC>
C487	87-A11-148-080		CAP,TC U 0.1-50 Z F <HRJSC,HRJPC,HRJLC,KSC,HSSC>
C488	87-A11-145-080		CAP,TC U 0.01-50 Z F <EXCEPT 120LHSC,140LHSC>
C502	87-010-248-080		CAP, ELECT 220-10V
C503	87-A10-176-010		CAP,CER 1000P-50 M D
C505	87-010-263-080		CAP, ELECT 100-10V
C801	87-A11-891-080		CAP,CER 470P-50 J SL
C802	87-A11-891-080		CAP,CER 470P-50 J SL
C805	87-010-545-080		CAP, ELECT 0.22-50V
C806	87-010-545-080		CAP, ELECT 0.22-50V
C807	87-A10-176-010		CAP,CER 1000P-50 M D
C808	87-A10-176-010		CAP,CER 1000P-50 M D
C809	87-010-405-080		CAP, ELECT 10-50V
C810	87-010-405-080		CAP, ELECT 10-50V
C811	87-010-263-080		CAP, ELECT 100-10V
C812	87-010-263-080		CAP, ELECT 100-10V
C813	87-010-386-080		CAP,E 330-25 M SME
C814	87-010-386-080		CAP,E 330-25 M SME
C817	87-A12-380-080		CAP,M 0.22-100 J CP
C818	87-A12-380-080		CAP,M 0.22-100 J CP
C819	87-010-101-080		CAP, ELECT 220-16
C820	87-010-386-080		CAP,E 330-25 M SME
C821	87-010-401-080		CAP, ELECT 1-50V
C856	87-010-405-080		CAP, ELECT 10-50V
C857	87-010-237-080		CAP,E 1000-16 M SME
C858	87-010-388-080		CAP,E 1000-25 M SME
CF101	87-008-582-010		FLTR,SFU455B
CF102	87-008-261-010		FILTER, SFE10.7MA5-A<EXCEPT USC>
CF102	87-008-582-010		FLTR,SFU455B<USC>
CF103	87-A90-420-010		FLTR,CF CDA10.7MG1<USC>
CN310	8B-CDC-677-010		F-CABLE ASSY,7P 2 93MM
CN401	8B-CDC-660-010		CONN,16P V TOC-B
CN402	8B-CDC-661-010		CONN ASSY,6P CD-ME
CN403	8B-CDC-663-010		F-CABLE ASSY,5P 2 153MM
CN404	8B-CDC-664-010		F-CABLE ASSY,8P 2 153MM
CN801	8B-CDC-657-010		CONN,4P V SPK-0UT
CN851	8B-CDC-658-010		CONN,3P V BATT
CNH401	8B-CDC-665-010		FF-CABLE,16P 1 200MM
HP801	8B-CDC-629-010		JACK,HTJ035-08D
L101	8B-CDC-640-010		COIL,FMRF4T5MM
L102	8B-CDC-639-010		COIL,FMOSC3T5MM
L103	8B-CDC-640-010		COIL,FMRF4T5MM
L104	8B-CDC-673-010		COIL,AM IFT
L105	87-005-849-080		COIL,10UH(CECS)<EXCEPT USC>
L402	87-005-684-080		COIL,10UH J LF0.5S
L803	87-005-680-080		COIL,4.7UH J LF5.0S<EXCEPT 140LHSC>
LF401	87-A90-133-010		SW LEAF LSA1120JAU
R475	87-029-366-090		FUSING RESISTOR, 1/2W-4.7 F
SW101	8B-CDC-644-010		SW,SL 2-2-2 SK22F03G9AA
SW102	8B-CDC-644-010		SW,SL 2-2-2 SK22F03G9AA
SW801	8B-CDC-643-010		SW,SL 2-4-3 SK43D01G9AA
T101	8B-CDC-672-010		COIL,AM OSC
T102	8B-CDC-674-010		COIL,FM IFT1<EXCEPT USC>
T103	8B-CDC-673-010		COIL,AM IFT<EXCEPT USC>
T103	8B-CDC-688-010		IFT, 4A-224R<USC>
T105	8B-CDC-675-010		COIL,FM DET<EXCEPT USC>
VC101	8B-CDC-671-010		TUN-CAP,20P-126P DF443DF02-A04
VR101	8B-CDC-634-010		SFR,10K<EXCEPT USC>
VR501	8B-CDC-633-010		SFR,500 H
VR801	8A-RU2-661-010		VR,50KC
WH401	8B-CDC-662-010		F-CABLE ASSY,2P 2 253MM
X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
RECTIFIER C.B			
C851	87-A10-182-010		CAP,CER 0.01-50 Z F
C852	87-A10-182-010		CAP,CER 0.01-50 Z F
C853	87-A10-182-010		CAP,CER 0.01-50 Z F
C854	87-A10-182-010		CAP,CER 0.01-50 Z F
C855	87-010-388-080		CAP,E1000-25 M SME
L851	8B-CDC-689-010		COIL,26UH BCD-12 <EXCEPT 120LHSC,USC,140LHSC>
CASETTE C.B			
C216	87-010-248-080		CAP, ELECT 220-10V
C219	87-A10-176-010		CAP,CER 1000P-50 M D
C301	87-010-405-080		CAP, ELECT 10-50V
C302	87-010-405-080		CAP, ELECT 10-50V
C303	87-A10-179-010		CAP,CER 3300P-50 M E
C304	87-A10-179-010		CAP,CER 3300P-50 M E
C305	87-010-382-080		CAP,E 22-25 M 11L SME
C306	87-010-382-080		CAP,E 22-25 M 11L SME
C307	87-A12-369-080		CAP,M 0.027-100 J CP
C308	87-A12-369-080		CAP,M 0.027-100 J CP
C309	87-010-404-080		CAP, ELECT 4.7-50V
C310	87-010-404-080		CAP, ELECT 4.7-50V
C311	87-A12-356-080		CAP,M 2200P-100 J CP
C312	87-A12-356-080		CAP,M 2200P-100 J CP
C315	87-010-221-080		CAP, ELECT 470-10V
C316	87-010-405-080		CAP, ELECT 10-50V
C317	87-A10-182-010		CAP,CER 0.01-50 Z F
C318	87-A10-182-010		CAP,CER 0.01-50 Z F
C323	87-A10-182-010		CAP,CER 0.01-50 Z F
C351	87-A11-112-080		CAP,TC U 1000P-50 J CH<140LHSC>
C352	87-A10-182-010		CAP,CER 0.01-50 Z F
C353	87-A10-182-010		CAP,CER 0.01-50 Z F
CN301	8B-CDC-659-010		CONN,4P V T-HEAD
SW301	8B-CDC-635-010		SW,SL 1-9-2 PS92D01
T351	87-CD8-605-010		COIL,OSC BIAS 4A363R
VR351	8B-CDC-634-010		SFR,10K
CD KEY&DISPLAY C.B			
DP401	8B-CDC-624-010		LED,A505RDD
LED401	87-070-106-010		LED,SE3001DT R
SW401	8B-CDC-623-010		SW,TACT 1102B160G
SW402	8B-CDC-623-010		SW,TACT 1102B160G
SW403	8B-CDC-623-010		SW,TACT 1102B160G
SW404	8B-CDC-623-010		SW,TACT 1102B160G
SW405	8B-CDC-623-010		SW,TACT 1102B160G
SW406	8B-CDC-623-010		SW,TACT 1102B160G
BATTERY C.B			
SENSOR C.B<140LHSC>			
C201	87-010-378-080		CAP,E 10-16M 11L SME<140LHSC>
CN201	8B-CDN-601-010		CONN,3P REMOTE<140LHSC>
MOTOR C.B			
M2	S0-M10-A09-700		MOTOR SLED ASSY
PIN3	S2-369-750-000		PLUG,6P
SW1	S4-S13-A01-600		SW,LEAF

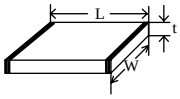
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

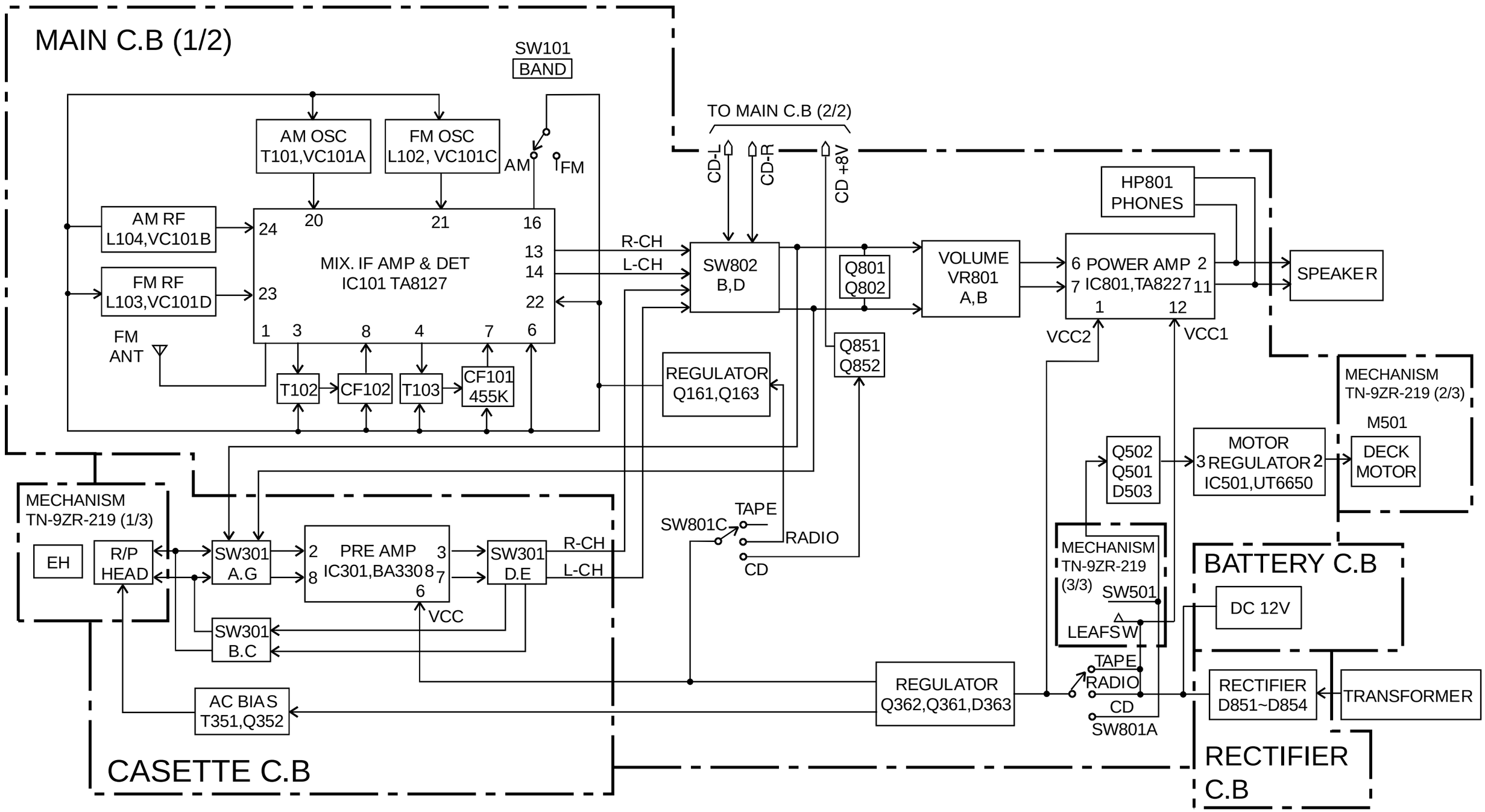
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

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

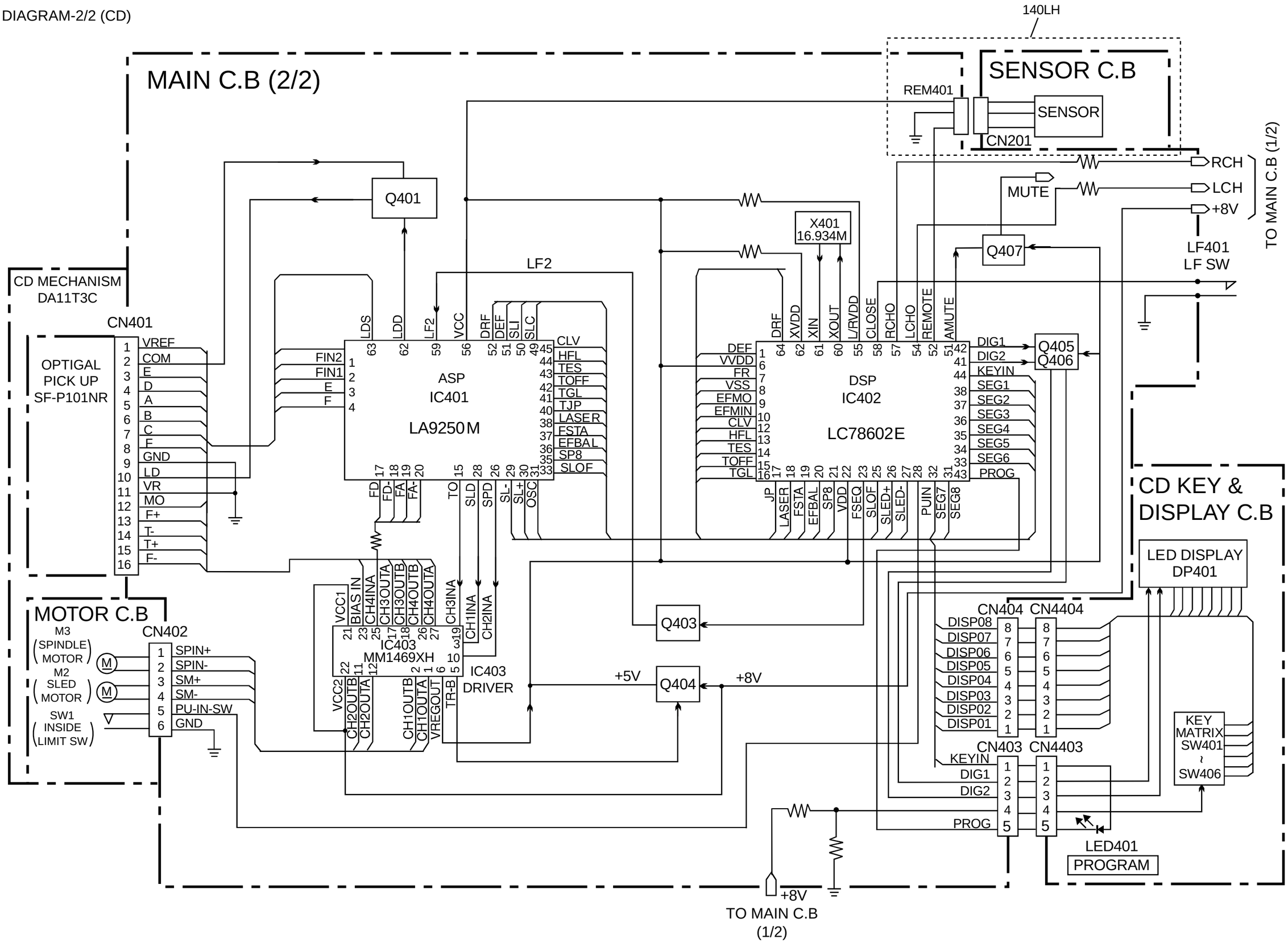


チップ抵抗
Chip resistor

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	1005	±5%	CJ		1.0	0.5	0.35	104
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


MAIN C.B (1/2)
SW101
BAND
AM OSC
T101,VC101A
FM OSC
L102, VC101C
AM
FM
TO MAIN C.B (2/2)
CD-L
CD-R
CD +8V
AM RF
L104,VC101B
FM RF
L103,VC101D
FM
ANT
MIX. IF AMP & DET
IC101 TA8127
24
20
21
16
13
14
22
23
1
3
8
4
7
6
T102
CF102
T103
CF101
455K
R-CH
L-CH
SW802
B,D
Q801
Q802
Q851
Q852
REGULATOR
Q161,Q163
VOLUME
VR801
A,B
HP801
PHONES
6 POWER AMP 2
7 IC801,TA8227 11
1 12
SPEAKER
VCC2
VCC1
MECHANISM
TN-9ZR-219 (2/3)
M501
MOTOR
3 REGULATOR 2
IC501,UT6650
Q502
Q501
D503
DECK
MOTOR
MECHANISM
TN-9ZR-219 (1/3)
EH
R/P
HEAD
SW301
A.G
2
8
PRE AMP
IC301,BA3308
3
7
6
SW301
D.E
R-CH
L-CH
VCC
SW301
B.C
SW801C
TAPE
RADIO
CD
MECHANISM
TN-9ZR-219
(3/3)
SW501
LEAFSW
BATTERY C.B
DC 12V
TAPE
RADIO
CD
SW801A
REGULATOR
Q362,Q361,D363
AC BIAS
T351,Q352
RECTIFIER
D851~D854
TRANSFORMER
CASETTE C.B
RECTIFIER
C.B

BLOCK DIAGRAM-2/2 (CD)

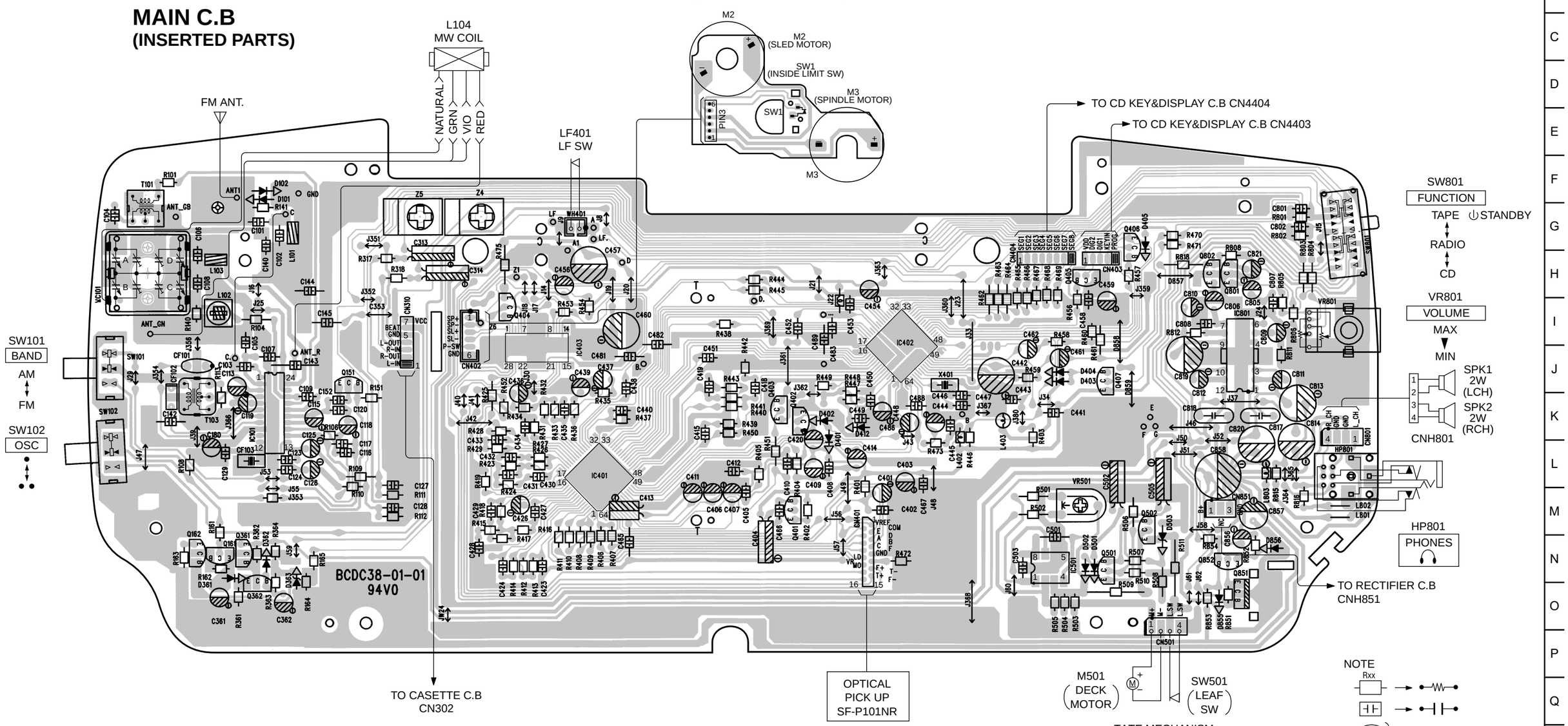


32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

MAIN C.B
(INSERTED PARTS)

MOTOR C.B
(CONDUCTOR SIDE)



Z4, Z5: Bar antenna installation position

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

MAIN C.B
(INSERTED PARTS)

MOTOR C.B
(CONDUCTOR SIDE)

140LH
SENSOR C.B
(INSERTED PARTS)

L104
MW COIL
NATURAL
GRN
VIO
RED

FM ANT.

LF401
LF SW

M2
M2 (SLED MOTOR)
SW1 (INSIDE LIMIT SW)
M3 (SPINDLE MOTOR)
SW1
PIN3
M3

TO CD KEY&DISPLAY C.B CN4404
TO CD KEY&DISPLAY C.B CN4403

SW801
FUNCTION
TAPE ⏻STANDBY
RADIO
CD

VR801
VOLUME
MAX
MIN

SPK1 2W (LCH)
SPK2 2W (RCH)
CNH801

HP801
PHONES

TO RECTIFIER C.B CNH851

SW101
BAND
AM
FM

SW102
OSC

BCDC37-01-01
94V0
(TA8127N)

TO CASETTE C.B CN302

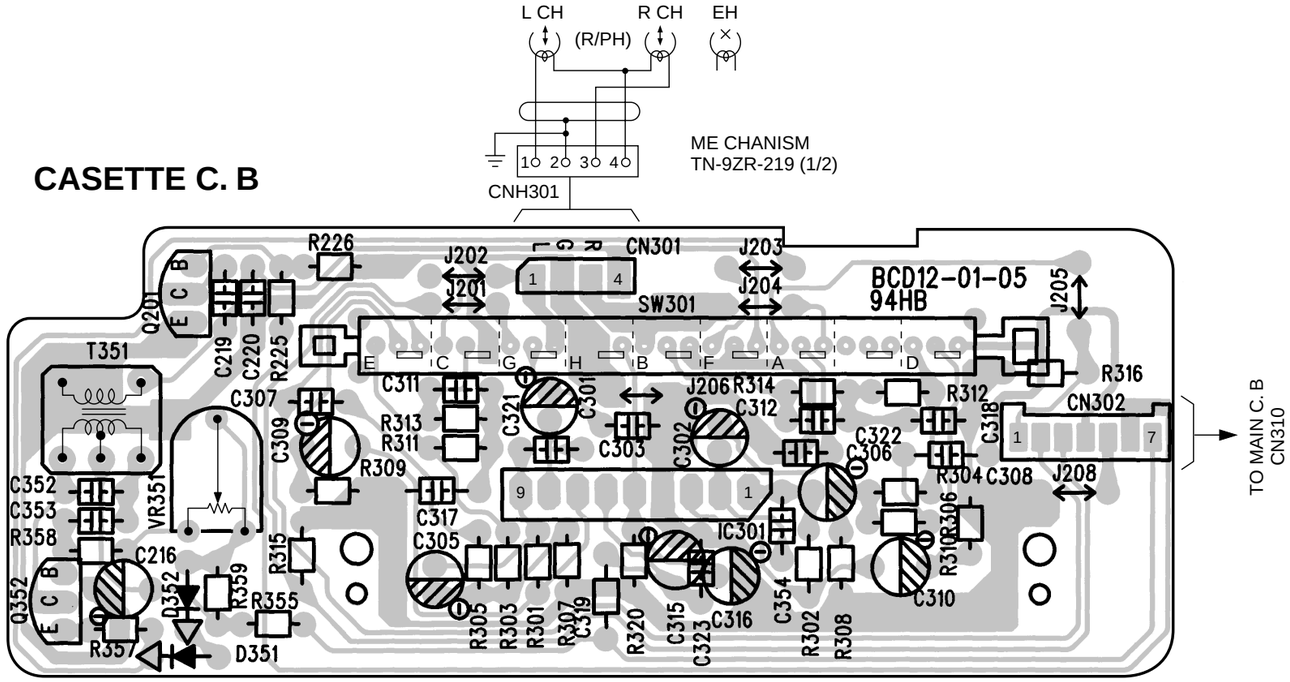
OPTICAL PICK UP SF-P101NR

M501 DECK MOTOR
SW501 LEAF SW
TATE MECHANISM TN-9ZR-219 (2/2)

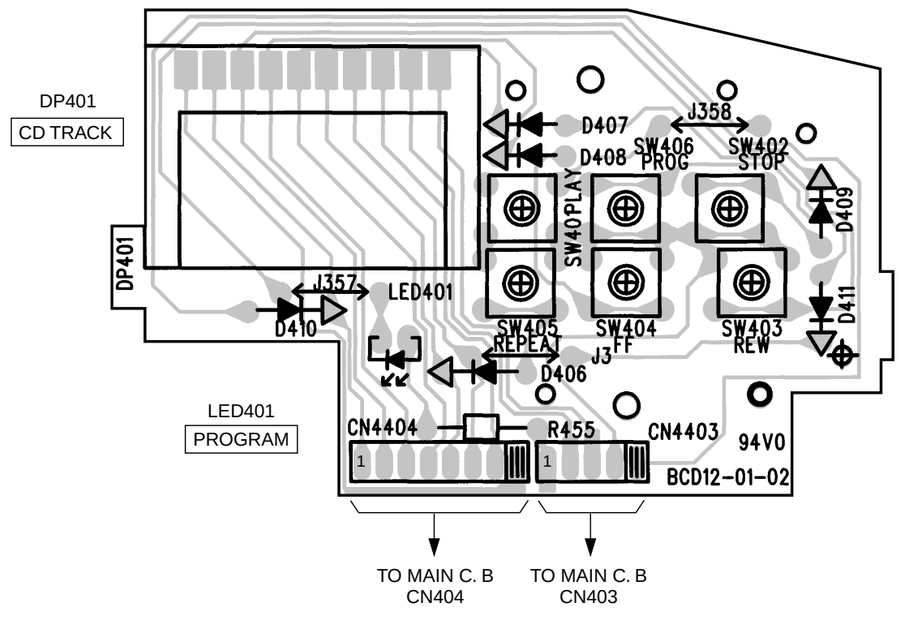
NOTE
Rxx
Lxxx

Z4, Z5: Bar antenna installation position

CASETTE C. B



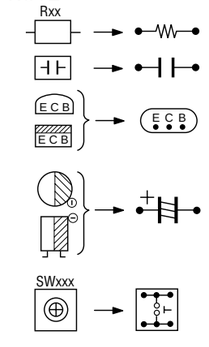
CD KEY&DISPLAY C. B



SW401 ⏯ | SW406 PROGRAM | SW402 ■

SW405 REPEAT | SW404 ⏭ | SW403 ⏮

NOTE

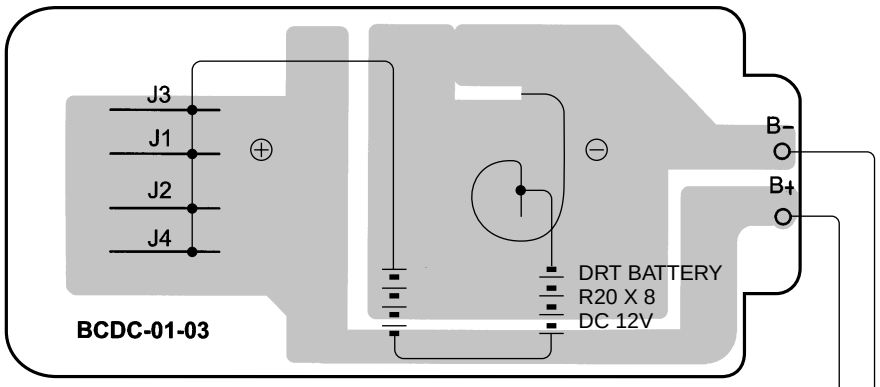


15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

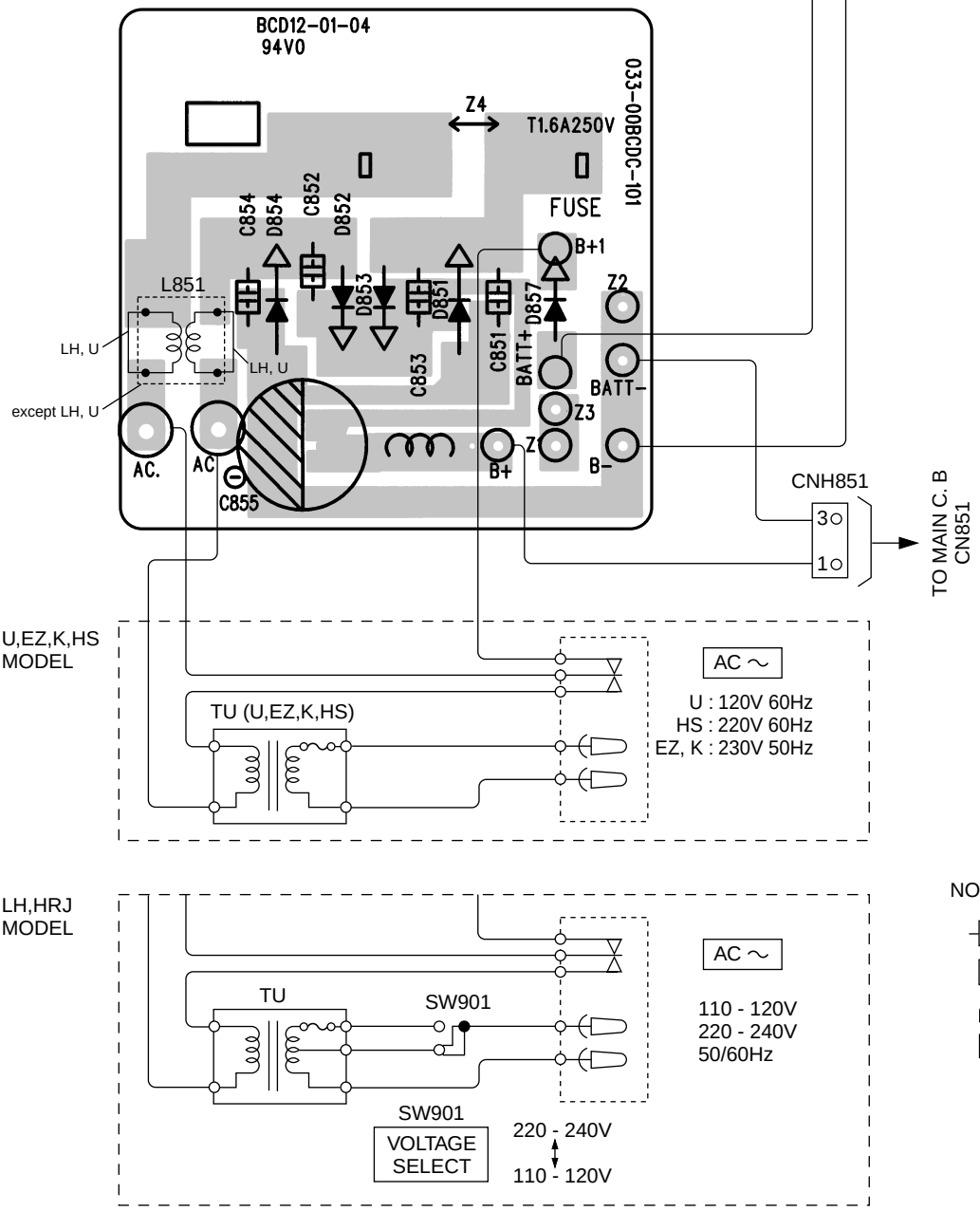
BATTERY C. B

(INSERTED PARTS)

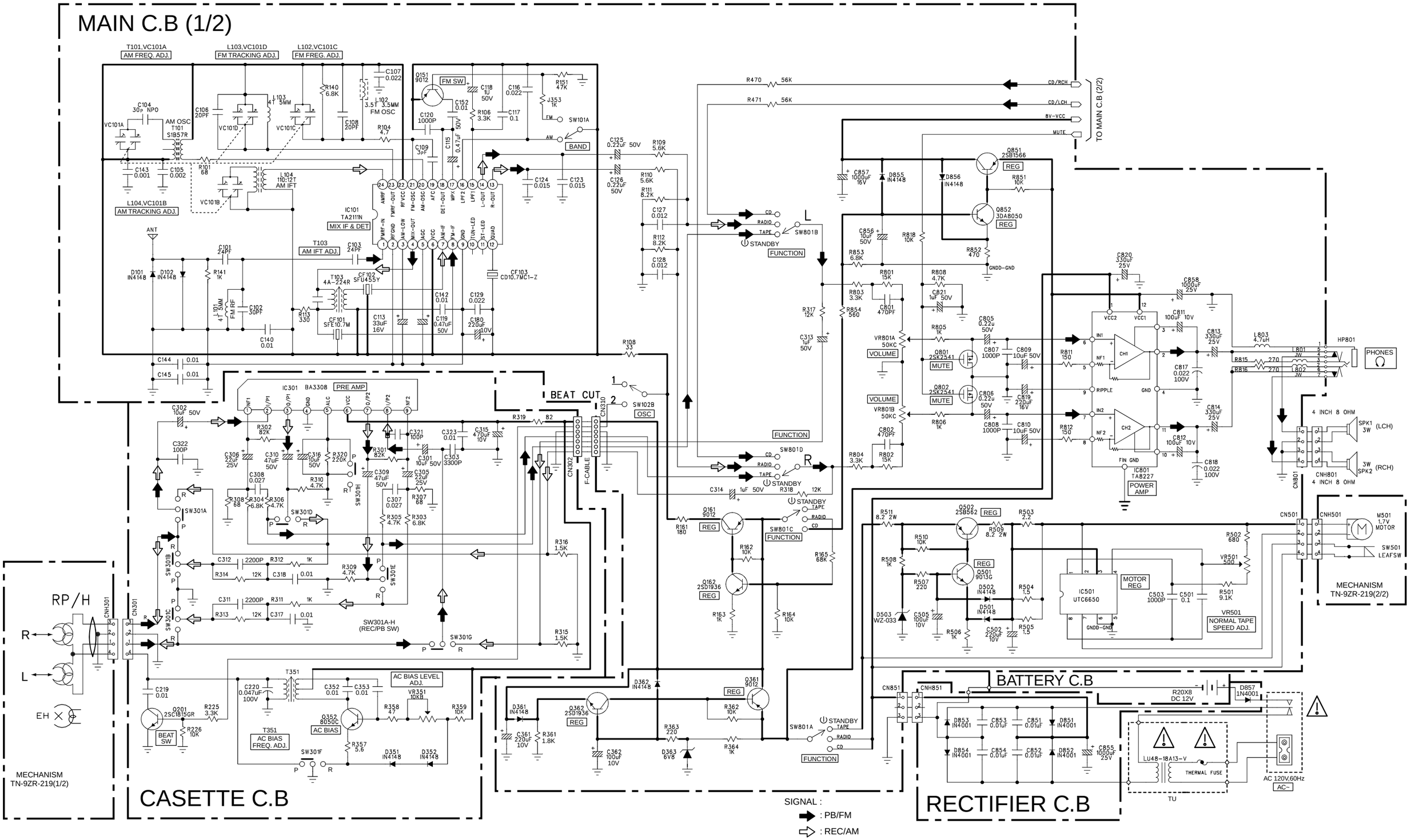


RECTIFIER C. B

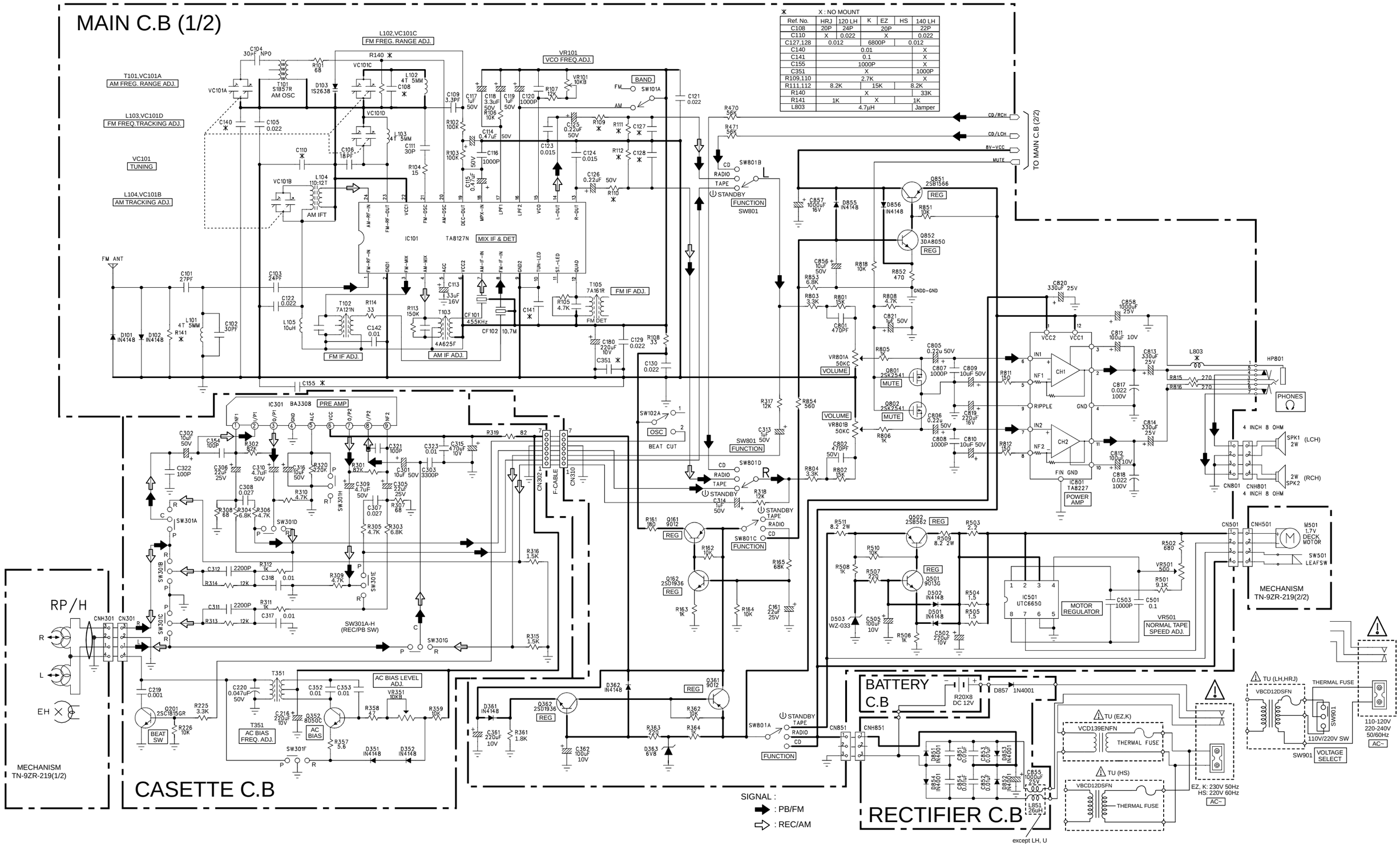
(INSERTED PARTS)



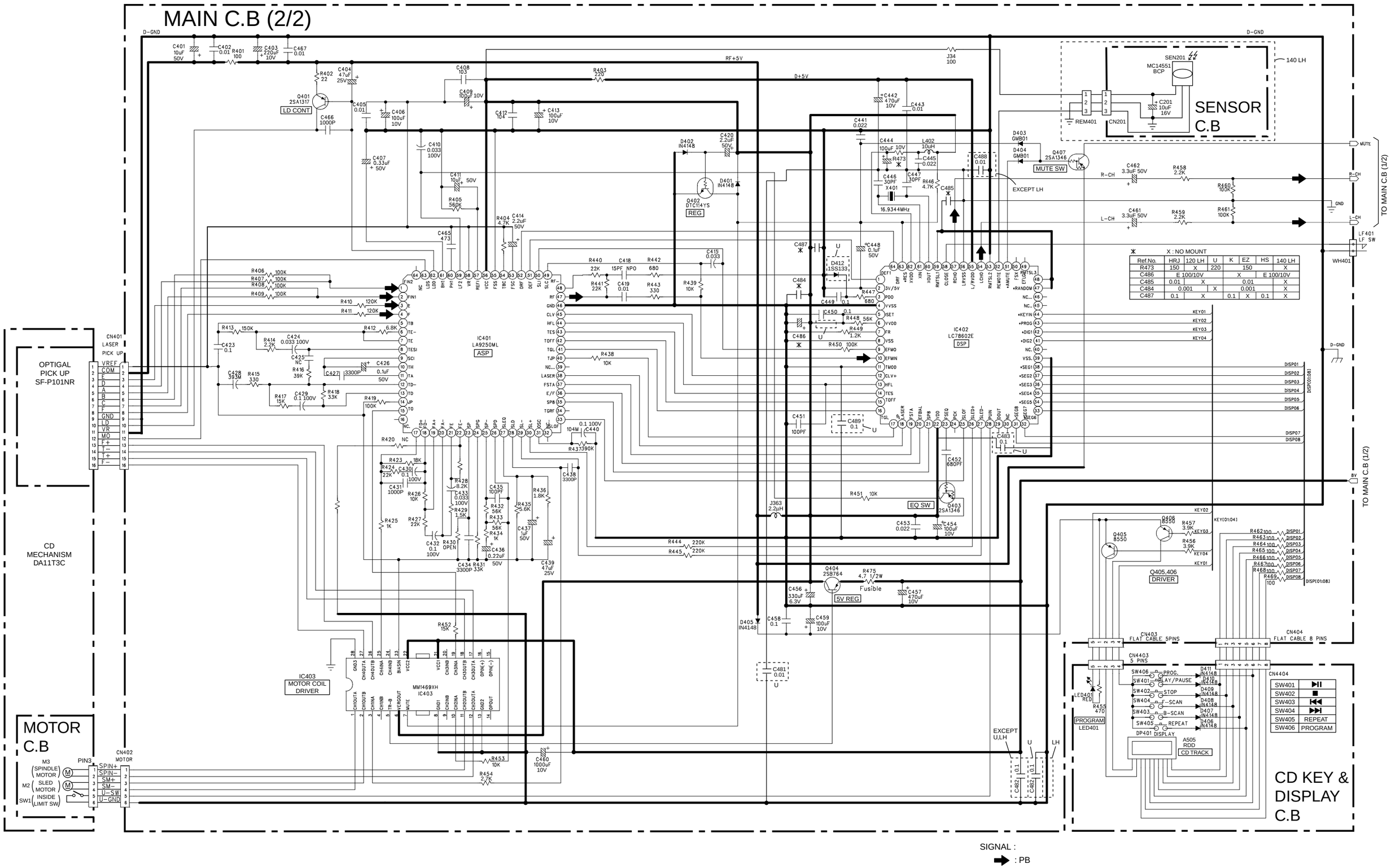
SCHEMATIC DIAGRAM-1/3 (TUNER U MODEL)



SCHEMATIC DIAGRAM-2/3 (TUNER EXCEPT U MODEL)

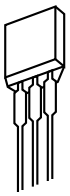


SCHEMATIC DIAGRAM-3/3 (CD)



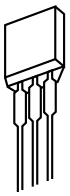
TRANSISTOR ILLUSTRATION-1/1

2SC1815

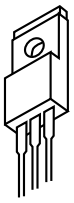


DTC114YS
2SD1936

2SB562
2SB764



2SK2541



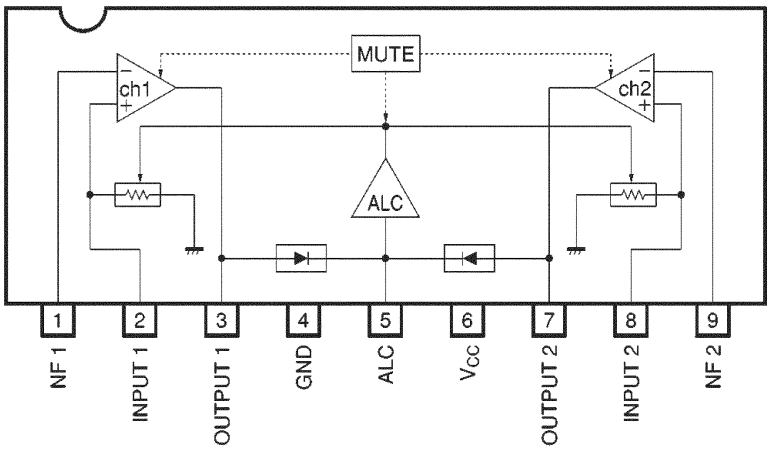
2SB1566

3CA8550
3CG9012
3DA8050
3DG9013

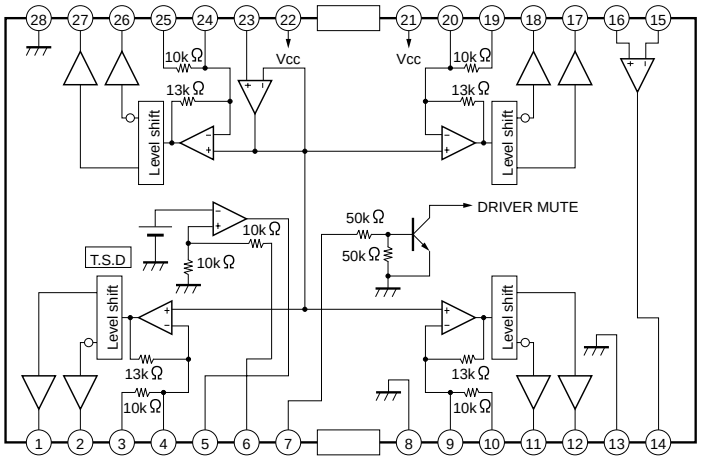
2SA1317
2SA1346

IC BLOCK DIAGRAM-1/1

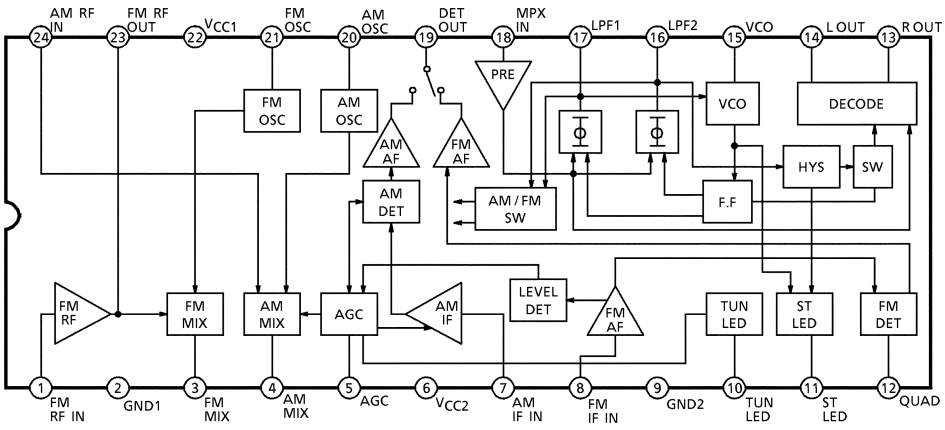
IC, BA3308



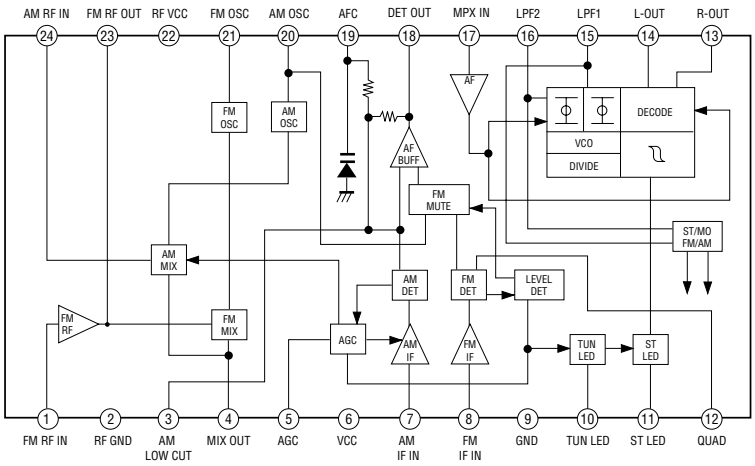
IC, MM1469XH



IC, TA8127N



IC, TA2111N



THE MEASURED VALUE IS DC VOLTAGE
UNIT: V
TUNER SECTION
TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

IC101 (TA8127N)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
AM	0.74	0	3.19	3.19	0	3.19	3.19	3.19	0	0	2.77	3.20
FM	0	0	4.39	4.43	0.84	4.38	4.11	4.38	0	0	4.20	4.34
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
AM	1.03	1.01	2.82	2.48	2.48	0.64	0.99	3.19	3.14	3.19	3.19	3.19
FM	1.05	1.03	3.77	4.22	3.87	0.70	1.37	4.34	4.41	4.41	4.41	4.41

TRANSISTOR	Q161(9012)			Q162(2SD1936)		
	E	B	C	E	B	C
FM	7.03	6.34	6.95	0.33	0.88	6.34

CASSETTE & POWER SECTION
TEST CONDITION: TAPE PLAY

IC801 (TA8227P)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
PLAY	12.50	6.36	12.10	0	0.58	0	0	0.58	6.62	12.10	6.37	12.50

IC501 (UTC6650)

PIN'S NUMBER	1	2	3	4	5	6	7	8
	2.03	3.31	3.37	3.17	0	0	1.45	0.69

IC301 (BA3308)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
	1.84	0	1.85	0	0	6.71	1.88	0	1.85

TRANSISTOR	Q352(8050C)			Q362(2SD1936)			Q361(9012)		
	E	B	C	E	B	C	E	B	C
TAPE PLAY	6.63	7.02	7.03	6.38	6.91	11.20	11.90	11.20	7.03
TAPE REC	0.06	7.00	0.65	6.36	6.91	10.80	11.50	10.90	7.00

TRANSISTOR	Q501(9013G)			Q502(2SB562)		
	E	B	C	E	B	C
	11.20	10.70	4.08	2.86	10.60	3.43

CD SECTION
TEST CONDITION: CD PLAY

IC402 (LC78602E)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
CD PLAY	0.02	0	1.60	0	1.59	4.93	0.36	0	2.46	2.40	0	2.60
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
CD PLAY	0	1.56	0	4.93	2.50	4.90	0.43	0.43	0.03	4.93	4.93	0.03
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
CD PLAY	0.03	0.05	0.06	4.90	2.50	1.78	2.93	2.93	4.88	2.93	2.93	0.95
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
CD PLAY	3.00	0	0	2.80	2.75	4.91	4.91	0	0	0	0	0
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	4.93	2.00	0	1.74	4.20	0	1.76	0	0	1.80
PIN'S NUMBER	61	62	63	64								
CD PLAY	2.00	4.92	4.92	4.85								

IC401 (LA9250ML)

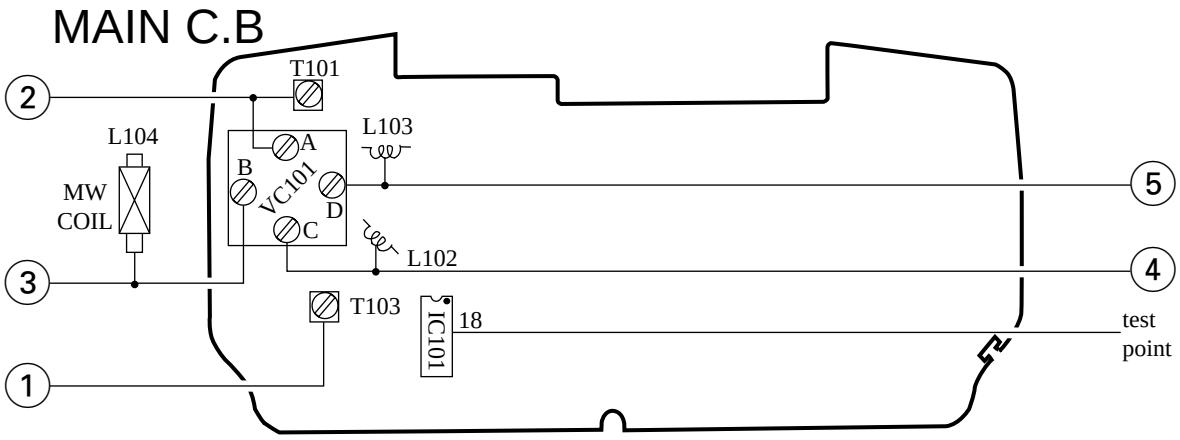
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
CD PLAY	2.43	2.43	2.48	2.48	2.48	2.43	2.46	2.45	2.46	2.46	2.45	2.45
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
CD PLAY	2.45	2.40	2.46	0	2.55	2.40	2.33	2.47	2.49	2.47	2.40	2.40
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
CD PLAY	2.47	2.80	2.47	2.53	2.20	2.20	1.58	0.09	0	0.25	0.04	0.43
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
CD PLAY	0.43	4.93	0.30	2.40	4.93	0.15	1.50	0	2.65	0	2.18	2.45
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	2.40	2.49	0	4.85	2.45	2.45	0	4.93	2.40	2.45	2.25	2.25
PIN'S NUMBER	61	62	63	64								
CD PLAY	2.20	3.47	0.18	0.80								

IC403 (MM1469XH)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
CD PLAY	2.89	2.95	2.53	2.48	5.33	5.08	4.73	0	2.48	2.78	3.36	2.56
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
CD PLAY	0	6.06	0.81	0.83	2.93	3.00	2.48	2.46	6.56	6.56	2.47	2.47
PIN'S NUMBER	25	26	27	28								
CD PLAY	2.49	2.96	2.93	0								

TRANSISTOR	Q404(2SB764)			Q405(A8550)			Q406(8550)		
	E	C	B	E	C	B	E	C	B
	7.60	4.93	6.97	4.20	2.00	4.30	4.20	2.00	4.30
TRANSISTOR	Q403(A1346)			Q407(A1346)					
	E	C	B	E	C	B			
	4.90	2.20	4.90	4.90	4.90	0			

U MODEL



< TUNER SECTION >

1. AM IF Adjustment
   Test point: IC101 (TA2111N) 18PIN
   Adjustment location: T103
   T103 ..... 455kHz

2. AM Frequency Range Adjustment
   Test point: IC101 (TA2111N) 18PIN
   Adjustment location: T101, VC101A
   T101 ..... 517kHz
   VC101A 1750kHz

3. AM Tracking Adjustment
   Test point: IC101 (TA2111N) 18PIN
   Adjustment location: L104, VC101B
   L104 ..... 600kHz waveform max.
   VC101B ..... 1400kHz waveform max.

4. FM Frequency Range Adjustment
   Test point: IC101 (TA2111N) 18PIN
   Adjustment location: L102, VC101C
   L102 ..... 87MHz
   VC101C 109MHz

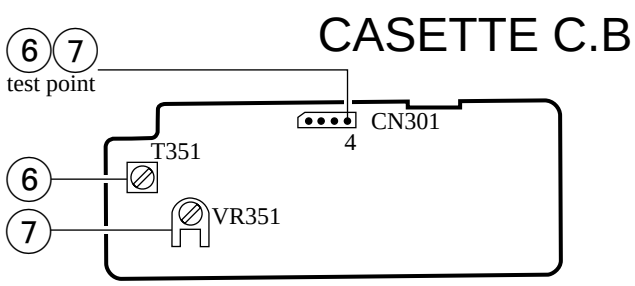
5. FM Tracking Adjustment
   Test point: IC101 (TA2111N) 18PIN
   Adjustment location: L103, VC101D
   L103 ..... 88MHz waveform max.
   VC101D ..... 108MHz waveform max.

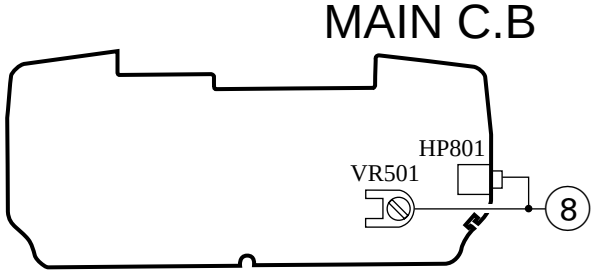
< DECK SECTION >

6. AC BIAS Frequency Adjustment
   Test point: CN301 4PIN
   Adjustment location: T351
   T351 ..... 60±0.5MHz

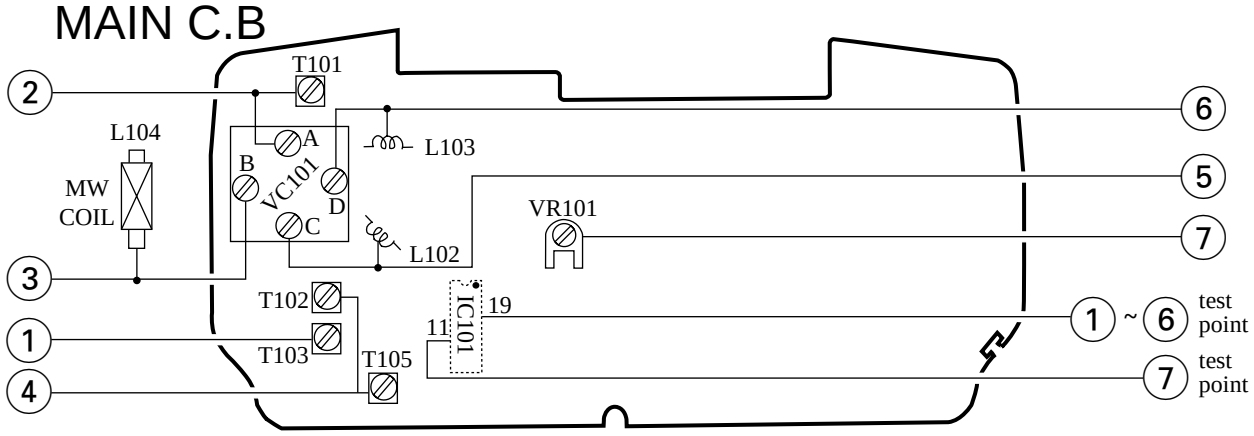
7. AC BIAS Level Adjustment
   Test point: CN301 4PIN
   Adjustment location: VR351
   VR351 ..... 14±0.5V

8. Normal Tape Speed Adjustment
   Test point: HP801 (Headphone Jack)
   Test Tape: B-111LNA
   Adjustment location: VR501
   VR501 ..... 3000Hz





EXCEPT U MODEL



< TUNER SECTION >

1. AM IF Adjustment
   Test point: IC101 (TA8127N) 19PIN
   Adjustment location: T103
   (LH, HR, HS MODEL)
   T103 ..... 455kHz
   (EZ, K MODEL)
   T103 ..... 465kHz

2. AM Frequency Range Adjustment
   Test point: IC101 (TA8127N) 19PIN
   Adjustment location: T101, VC101A
   (LH MODEL)
   T101 ..... 517kHz
   VC101A 1750kHz
   (HR, HS, K, EZ MODEL)
   T101 ..... 513kHz
   VC101A 1635kHz

3. AM Tracking Adjustment
   Test point: IC101 (TA8127N) 19PIN
   Adjustment location: L104, VC101B
   L104 ..... 600kHz waveform max.
   VC101B ..... 1400kHz waveform max.

4. FM IF Adjustment
   Test point: IC101 (TA8127N) 19PIN
   Adjustment location: T102, T105
   T102, T105 ..... 10.7MHz

5. FM Frequency Range Adjustment
   Test point: IC101 (TA8127N) 19PIN
   Adjustment location: L102, VC101C
   (LH, HR, HS MODEL)
   L102 ..... 87MHz
   VC101C 109MHz
   (K, EZ MODEL)
   L102 ..... 87.3MHz
   VC101C 108.3MHz

6. FM Tracking Adjustment
   Test point: IC101 (TA8127N) 19PIN
   Adjustment location: L103, VC101D
   L103 ..... 88MHz waveform max.
   VC101D ..... 108MHz waveform max.

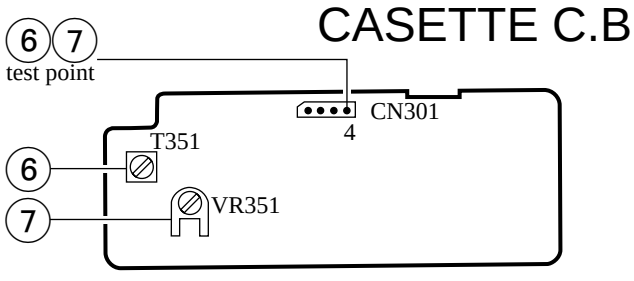
7. VCO Frequency Adjustment
   Test point: IC101 (TA8127N) 11PIN
   Adjustment location: VR101
   VR101 ..... 76±0.05MHz

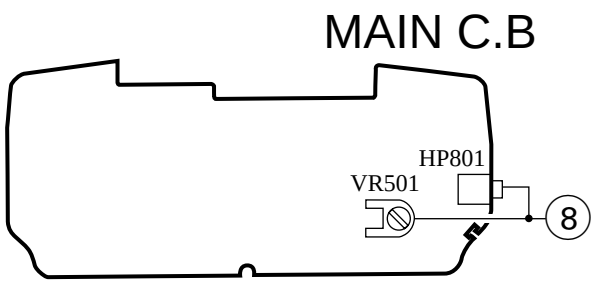
< DECK SECTION >

6. AC BIAS Frequency Adjustment
   Test point: CN301 4PIN
   Adjustment location: T351
   T351 ..... 60±0.5MHz

7. AC BIAS Level Adjustment
   Test point: CN301 4PIN
   Adjustment location: VR351
   VR351 ..... 14±0.5V

8. Normal Tape Speed Adjustment
   Test point: HP801 (Headphone Jack)
   Test Tape: B-111LNA
   Adjustment location: VR501
   VR501 ..... 3000Hz





IC DESCRIPTION-1/2 (LA9250M)-1/2

Pin No.	Pin Name	I/O	Description
1, 2	FIN2, 1	I	Pickup photodiode (focus, RF) connection.
3	E	I	Pickup photodiode (tracking) connection.
4	F		
5	TB	I	TE signal DC component input. Pickup photodiode (tracking) connection.
6	TE-	—	TE signal gain setting resistor connection. A resistor is connected between this pin and TE.
7	TE	O	TE signal output.
8	TESI	I	TES comparator input. Takes the bandpass filtered TE signal as its input.
9	SCI	I	Shock detection input.
10	TH	—	Tracking gain time constant setting.
11	TA	O	TA amplifier output.
12	TD-	—	In conjunction with the TD and VR pins, used to form the tracking phase compensation circuit constant.
13	TD	—	Tracking phase compensation setting.
14	JP	—	Track jump signal amplitude setting.
15	TO	O	Tracking control signal output.
16	(NC)	—	No connection.
17	FD	O	Focusing control signal output.
18	FD-	I	In conjunction with the FD and FA pins, used to form the focusing phase compensation circuit constant.
19	FA	O	In conjunction with the FD- and FA- pins, used to form the focusing phase compensation circuit constant.
20	FA-	I	In conjunction with the FA and FE pins, used to form the focusing phase compensation circuit constant.
21	FE	O	FE signal output.
22	FE-	I	FE signal gain setting resistor connection. A resistor is connected between this pin and FE.
23	SP	—	CLV pin input signal inverted output.
24	SPG	—	Gain setting resistor connection. (12 cm spindle mode)
25	SP-	—	In conjunction with the SPD pin, spindle phase compensation time constant connection.
26	SPD	O	Spindle control signal output.
27	SLEQ	—	Sled phase compensation time constant connection.
28	SLD	O	Sled control signal output.
29	SL-	I	Sled feed signal input from the microcontroller.
30	SL+	I	
31	OSC	—	Oscillator frequency setting.
32	(NC)	—	No connection.
33	SLOF	I	Sled servo off control input.
34	TGRF	—	Tracking servo gain RF level follower function setting.
35	SP8	—	Spindle 8 cm/12 cm mode switching control from the DSP.
36	EFBAL	I	E/F balance adjustment signal input from the DSP.
37	FSTA	I	Focus search control signal input from the DSP.
38	LASER	I	Laser on/off control from the DSP.

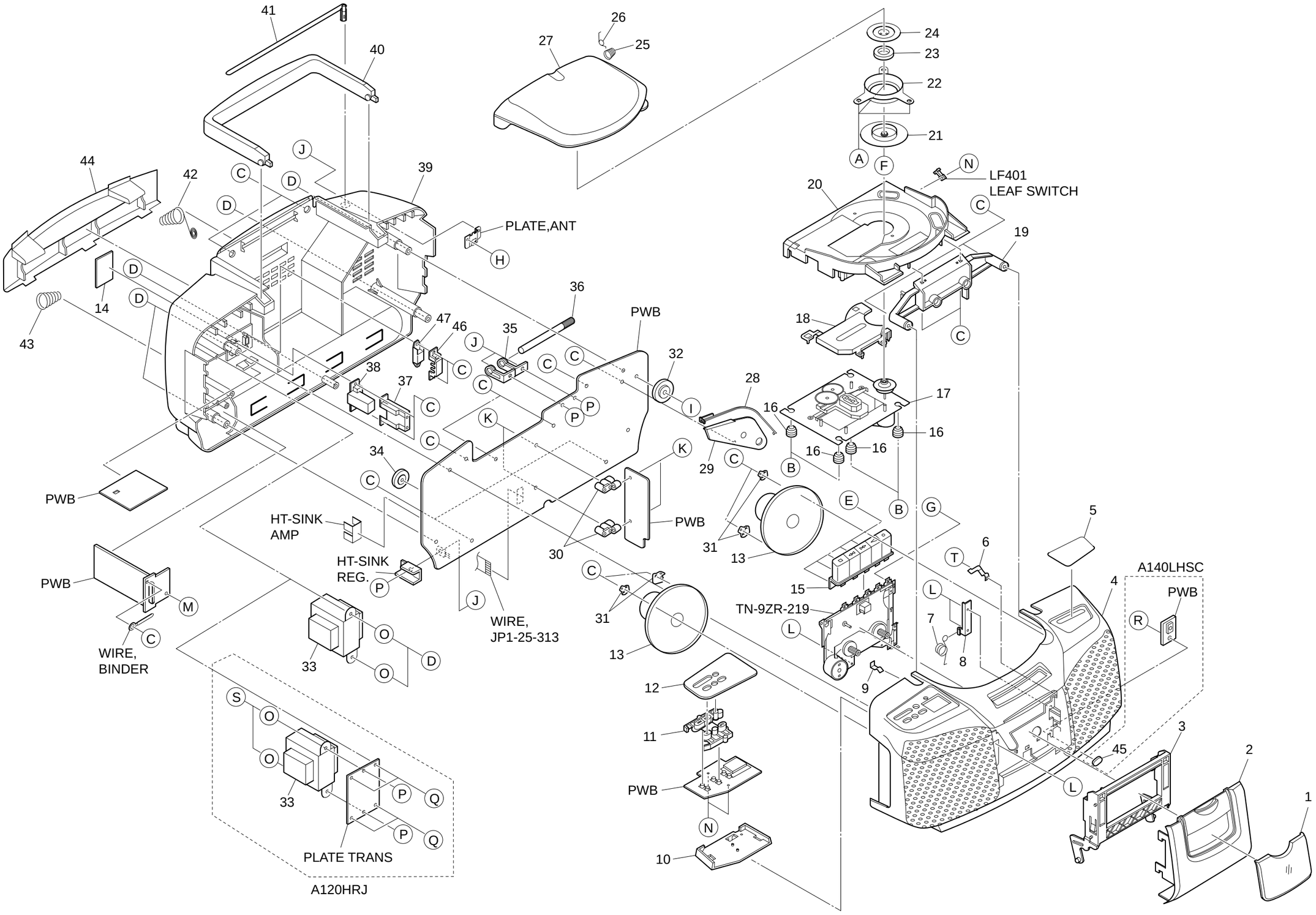
Pin No.	Pin Name	I/O	Description
39	(NC)	—	No connection.
40	TJP	I	Track jump signal input from the DSP.
41	TGL	I	Tracking gain control signal input from the DSP.
42	TOFF	I	Tracking off control signal input from the DSP.
43	TES	O	TES signal output to the DSP.
44	HFL	O	Output for the HFL signal that indicates whether the main beam is positioned over pits or mirror.
45	CLV	I	CLV error signal input from the DSP.
46	GND	—	GND.
47	RF	O	RF output.
48	RF-	—	In conjunction with the RF pin, sets the RF gain and sets the EFM 3T compensation.
49	SLC	O	Output for control of the RF waveform data slice level according to the DSP.
50	SLI	I	Input for control of the RF waveform data slice level according to the DSP.
51	DEF	O	Disc defect detection output.
52	DRF	O	RF level detection output.
53	FSC	O	Focus search smoothing capacitor output.
54	TBC	—	E/F balance variation range setting.
55	FSS	—	Focus search mode setting.
56	VCC	—	VCC.
57	REFI	—	Reference voltage bypass capacitor connection.
58	VR	O	Reference voltage output.
59	LF2	—	Disc defect detection time constant setting.
60	PH1	—	RF signal peak hold capacitor connection.
61	BH1	—	RF signal bottom hold capacitor connection.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	(NC)	—	No connection.

IC DESCRIPTION-2/2 (LC78602E)-1/2

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect detection signal (DEF) input. (Must be connected to 0V if unused)	
2	3 V/*5 V	I	Supply voltage selection input. (High: 3V operation, low: 5V operation)	
3	PDO	O	PLL circuit pins	Internal VCO control phase comparator output.
4	VVSS	—		Internal VCO ground. This pin must be connected to 0V.
5	ISET	—		PDO output current adjustment resistor connection.
6	VVDD	—		Internal VCO power supply.
7	FR	—		VCO frequency range adjustment.
8	VSS	—	Digital system ground. This pin must be connected to 0V.	
9	EFMO	O	Slice level control pins	EFM signal output.
10	EFMIN	I		EFM signal input.
11	TMOD	I	Test input. This pin must be connected to 0V.	
12	CLV	O	Disc motor control output. This is a 3-value output.	
13	HFL	I	Track detection signal input. This is a Schmitt input.	
14	TES	I	Tracking error signal input. This is a Schmitt input.	
15	TOFF	O	Tracking off output.	
16	TGL	O	Tracking gain switching output. A low level output raises the gain.	
17	JP	O	Track jump control output. This is a 3-value output.	
18	LASER	O	Laser control. A pull-down resistor is built in.	
19	FSTA	O	FSTA control. A pull-down resistor is built in.	
20	EFBAL	O	EFBAL control. A pull-down resistor is built in.	
21	SP8	O	SP8 control. A pull-down resistor is built in.	
22	VDD	—	Digital system power supply.	
23	FSEQ	O	Synchronizing signal detection output. Outputs a high level if the synchronizing signal detected from the EFM signal and the internally generated synchronizing signal match.	
24	PCK	O	EFM data playback clock monitor. 4.3218 MHz when the phase is locked. (Note that this output is only provided in test mode. This pin outputs a low level during normal mode operation) (No connection)	
25	SLOF	O	Sled off control output.	
26	SLED+	O	Sled feed output.	
27	SLED-			
28	PUIN	I	Limit switch detection input. A pull-up resistor is built in. (No connection)	
29	DOUT	O	Digital output. (EIAJ format)	
30	NC	—	Unused pin. This pin must be left open.	
31-38	*SEG8-1	O	Segment output (8)-(1). A pull-up resistor is built in.	
39	VSS	—	Digital system ground. This pin must be connected to 0V.	
40	NC	—	Unused pin. This pin must be left open.	
41, 42	*DIG2, 1	O	Common driver output (2), (1). A pull-up resistor is built in.	
43	*PROG	O	Program operation monitor. A pull-up resistor is built in.	
44	*KEYI1	I	Key matrix input (1). A pull-up resistor is built in.	
45, 46	NC	—	Unused pin. This pin must be left open.	
47	*RANDOM	O	Random mode indicator output. (Low: random mode, high: modes other than random mode)	

Pin No.	Pin Name	I/O	Description
48	RMTSL3	I/O	Remote controller identifier input (3). This pin functions as an output pin set to the low level during resets (when the *RES pin is low) and for a few milliseconds after the *RES pin switches to the high level. Therefore, applications that will set this pin high must connect an external pull-up resistor to this pin.
49	EFLG	O	Monitor for C1, C2, single, and double error corrections. (Note that this output is only provided in test mode. This pin outputs a low level during normal mode operation) (No connection)
50	FSX	O	Outputs a 7.35 kHz synchronizing signal that is generated by dividing the crystal oscillator output. (Note that this output is only provided in test mode. This pin outputs a low level during normal mode operation) (No connection)
51	*AMUTE	O	Audio mute output signal.
52	REMOTE	I	Remote controller signal input.
53	RMTSL2	I/O	Remote controller identifier input (2). This pin functions as an output pin set to the low level during resets (when the *RES pin is low) and for a few milliseconds after the *RES pin switches to the high level. Therefore, applications that will set this pin high must connect an external pull-up resistor to this pin.
54	LCHO	O	Left channel D/A converter output.
55	L/RVDD	—	D/A converter power supply.
56	L/RVSS	—	D/A converter ground. This pin must be connected to 0V.
57	RCHO	O	Right channel D/A converter output.
58	CLOSE	I	Close switch detection input. A pull-up resistor is built in.
59	RMTSL1	I	Remote controller identifier input (1). A pull-up resistor is built in.
60	XOUT	O	Connections for a 16.9344 crystal element.
61	XIN	I	
62	XVDD	—	Crystal oscillator circuit power supply.
63	*RES	I	IC reset input. Applications must set this pin low temporarily when power is first applied.
64	DRF	I	DRF input.

MECHANICAL EXPLODED VIEW-1/1



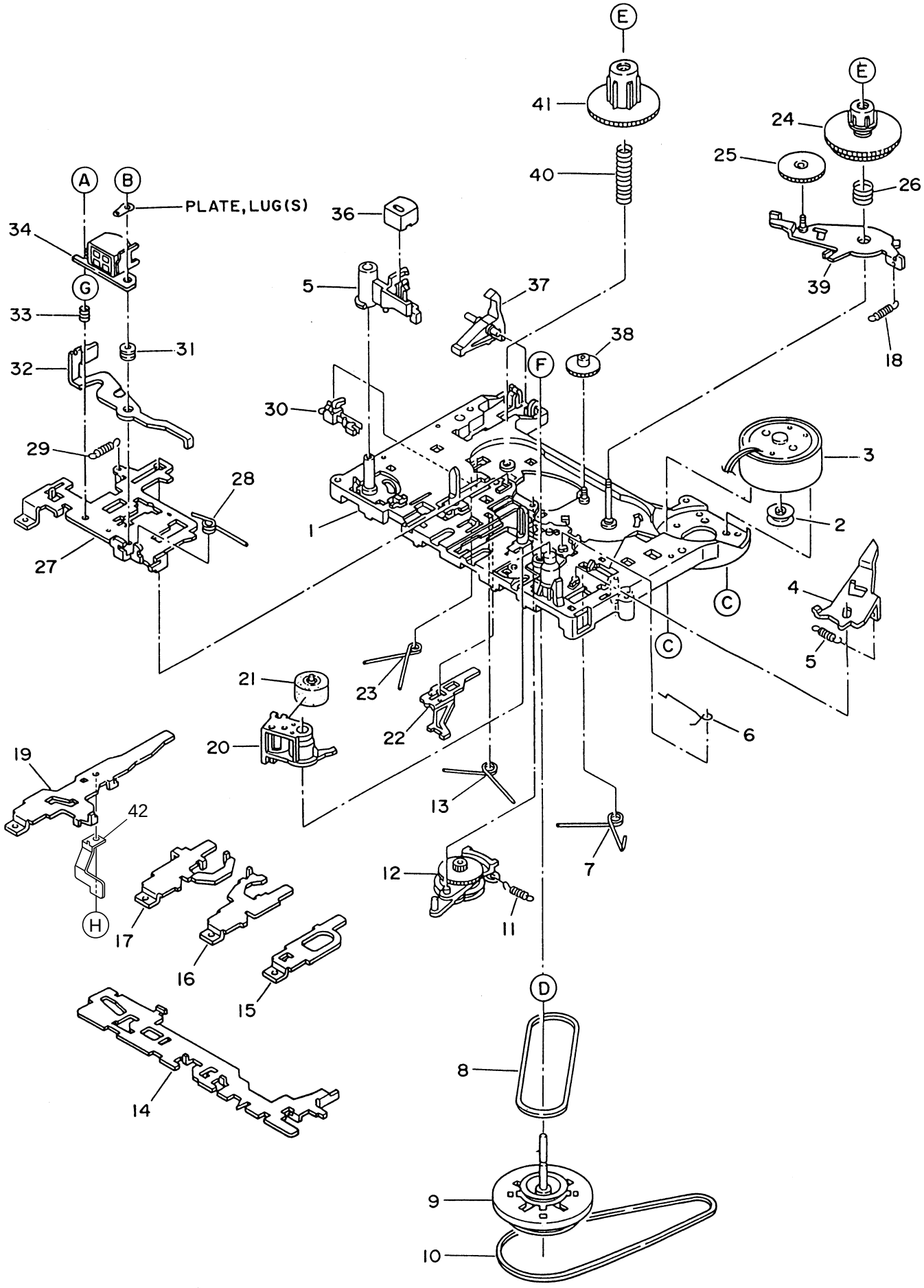
MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CDC-004-010		LENS,CASS<EXCEPT A120HRJPC,A120HRJLC>
1	8B-CDC-065-010		LENS,CASS BLUE<A120HRJLC>
1	8B-CDC-095-010		LENS,CASS PINK<A120HRJPC>
2	8B-CDC-003-010		LID,CASS<EXCEPT A120HRJPC,A120HRJLC>
2	8B-CDC-064-010		LID,CASS BLUE<A120HRJLC>
2	8B-CDC-094-010		LID,CASS PINK<A120HRJPC>
3	8B-CDC-007-010		BOX,CASS<EXCEPT A120HRJPC,A120HRJLC>
3	8B-CDC-068-010		BOX,CASS BLUE<A120HRJLC>
3	8B-CDC-098-010		BOX,CASS PINK<A120HRJPC>
4	8B-CDN-002-010		CABI,FR ASSY<A140LHSC>
4	8B-CDC-033-010		CABI,FR ASSY EX <A120HRJSC,A120LHSC,A120USC,A120HSSC>
4	8B-CDC-061-010		CABI,FR ASSY EX BLUE<A120HRJLC>
4	8B-CDC-091-010		CABI,FR ASSY EX PINK<A120HRJPC>
4	8B-CDC-035-010		CABI,FR ASSY EZ<A120KSC,A120EZSC>
5	8B-CDC-022-010		PLATE,TU EZ<A120KSC,A120EZSC>
5	8B-CDC-023-010		PLATE,TU HR<A120HRJSC,A120HSSC>
5	8B-CDC-079-010		PLATE,TU HR BLUE<A120HRJLC>
5	8B-CDC-108-010		PLATE,TU HR PINK<A120HRJPC>
5	8B-CDC-020-010		PLATE,TU U<A120LHSC,A120USC,A140LHSC>
6	8B-CDC-217-010		SPR-P,REC
7	8B-CDC-216-010		SPR-T,CASS
8	8B-CDC-213-010		PLATE,CASS
9	8A-CM3-211-010		SPR-P,CASS
10	8B-CDC-204-010		HLDR,CD KEY
11	8B-CDC-006-010		KEY,CD<EXCEPT A120HRJPC,A120HRJLC>
11	8B-CDC-067-010		KEY,CD BLUE<A120HRJPC,A120HRJLC>
12	8B-CDC-018-010		PLATE,CD EX<EXCEPT A120HRJPC,A120HRJLC>
12	8B-CDC-077-010		PLATE,CD EX BLUE<A120HRJLC>
12	8B-CDC-107-010		PLATE,CD EX PINK<A120HRJPC>
13	8B-CDC-625-010		SPKR, 8OHM BCD-C
14	8B-CDC-030-010		PLATE,AC VOLTAGE<EXCEPT A120USC, A120KSC,A120EZSC,A120HSSC>
15	8B-CDC-005-010		KEY,CASS SET <EXCEPT A120HRJPC,A120HRJLC>
15	8B-CDC-066-010		KEY,CASS SET BLUE<A120HRJLC>
15	8B-CDC-096-010		KEY,CASS SET PINK<A120HRJPC>
16	8B-CDC-210-010		CUSHION,CD
17	M8-ZZK-E90-070		DA11T3C
18	8B-CDC-038-010		PANEL,CD(SANYO)
19	8B-CDC-203-010		HLDR,CD
20	8B-CDC-012-010		CHAS,CD<EXCEPT A120HRJPC,A120HRJLC>
20	8B-CDC-073-010		CHAS,CD BLUE<A120HRJLC>
20	8B-CDC-103-010		CHAS,CD PINK<A120HRJPC>
21	8B-CDC-207-010		BASE,CHUCK<EXCEPT A140LHSC>
21	8B-CDC-220-010		BASE,CHUCK (SANYO)<A140LHSC>
22	8B-CDC-206-010		HLDR,CHUCK
23	87-036-368-010		MAGNET
24	8B-CDC-208-010		PLATE,CHUCK
25	87-CD9-211-010		GEAR,
26	8B-CDC-215-010		SPR-T,CD
27	8B-CDN-004-010		LID,CD<A140LHSC>
27	8B-CDC-002-010		LID,CD <EXCEPT A120HRJPC,A120HRJLC,A140LHSC>
27	8B-CDC-063-010		LID,CD BLUE<A120HRJLC>
27	8B-CDC-093-010		LID,CD PINK<A120HRJPC>
28	8B-CDC-014-010		POINTER,
29	8B-CDC-201-010		HLDR,TU
30	8B-CDC-205-010		HLDR,PWB
31	8B-CDC-212-010		PLATE,SPKR
32	8B-CDC-016-010		KNOB,RTRY TU <EXCEPT A120HRJPC,A120HRJLC>
32	8B-CDC-076-010		KNOB,RTRY TU BLUE<A120HRJLC>
32	8B-CDC-106-010		KNOB,RTRY TU PINK<A120HRJPC>
⚠ 33	8B-CDC-610-010		PT,E<A120KSC,A120EZSC>
⚠ 33	8B-CDC-609-010		PT,H<EXCEPT A120USC,A120KSC,A120EZSC>
⚠ 33	8B-CDC-607-010		PT,U<A120USC>
34	8B-CDC-015-010		KNOB,RTRY VOL <EXCEPT A120HRJPC,A120HRJLC>
34	8B-CDC-075-010		KNOB,RTRY VOL BLUE<A120HRJLC>
34	8B-CDC-105-010		KNOB,RTRY VOL PINK<A120HRJPC>
35	86-CS3-216-010		HLDR,BAR ANT
36	8B-CDC-642-010		BAR-ANT,AM
37	86-CS3-211-010		COVER, AC SOCKET
⚠ 38	87-A60-178-010		JACK,AC E W/SW<EXCEPT A120USC>
⚠ 38	8B-CDC-626-010		JACK,AC U<A120USC>
39	8B-CDC-010-010		CABI,REAR<EXCEPT A120HRJPC,A120HRJLC>
39	8B-CDC-071-010		CABI,REAR BLUE<A120HRJLC>
39	8B-CDC-101-010		CABI,REAR PINK<A120HRJPC>
40	8B-CDC-013-010		HANDL,<EXCEPT A120HRJPC,A120HRJLC>
40	8B-CDC-074-010		HANDL,BLUE<A120HRJLC>
40	8B-CDC-104-010		HANDL,PINK<A120HRJPC>
41	8B-CDC-679-010		ANT,ROD FM
42	8B-CDC-218-010		SPR,BATT (+/-)
43	8B-CDC-219-010		SPR,BATT (-)
44	8B-CDC-011-010		LID,BATT<EXCEPT A120HRJPC,A120HRJLC>
44	8B-CDC-072-010		LID,BATT BLUE<A120HRJLC>
44	8B-CDC-102-010		LID,BATT PINK<A120HRJPC>
45	8B-CDN-001-010		LENS,REMOTE CONTROL<A140LHSC>
46	86-CS3-210-010		COVER, VOLTAGE<EXCEPT A120USC, A120KSC,A120EZSC,A120HSSC>
⚠ 47	87-A90-146-010		SW,SL 1-1-2<EXCEPT A120USC, A120KSC,A120EZSC>
A	87-621-072-410		QT1+2.6-5
B	8B-CDC-211-010		S-SCREW,CD
C	87-745-095-410		SCREW UT2+3-8
D	87-651-103-410		SCREW VT1+3-25
E	87-571-033-410		TAPPING SCREW, VIT+2-4
F	87-251-033-410		U+2-4
G	87-641-038-410		UT1+2-12
H	87-741-094-410		UT2+3-6
I	87-261-072-410		V+2.6-5
J	87-265-095-410		V+3-8 NI
K	87-651-075-410		VT1 +2.6-10
L	87-651-036-410		VT1+2-8
M	87-651-073-410		VT1+2.6-6
N	87-751-035-410		VT2+2-6W/0 SLOT
O	86-CS3-218-010		W,3.5-14-0.5
P	86-CS3-217-010		NUT, M3X0.5P NI
Q	87-651-099-410		VT1+3-15<A120HRJSC,A120HRJPC,A120HRJLC>
R	87-751-096-410		VT2+3-10 GLD<A140LHSC>
S	87-581-096-410		UIT +3-10 <A120HRJSC,A120HRJPC,A120HRJLC>
T	S9-C01-201-530		CAMERA SCREW M2-1.5

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

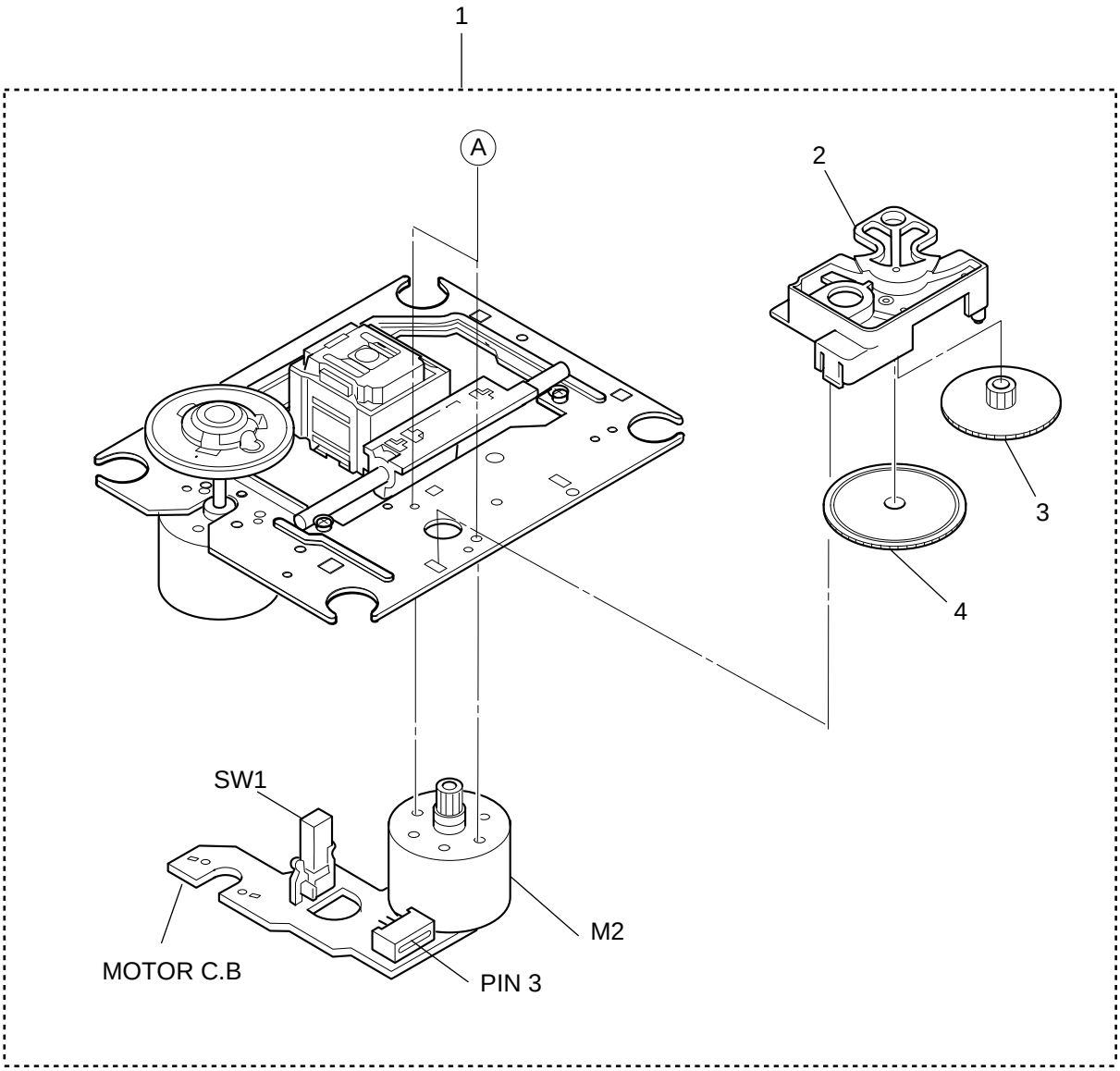
TAPE MECHANISM EXPLODED VIEW-1/1 (TN-9ZR-219)



TAPE MECHANISM PARTS LIST-1/1 (TN-9ZR-219)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S1-877-013-120		CHASSIS ASSY
2	S1-877-120-010		MOTOR PULLEY
3	S6-002-070-100		MOTOR FR-410CA-12250T
4	S1-877-010-170		AUTO LEVER
5	S1-877-010-190		AUTO LEVER SPR
6	S1-877-030-090		SPR,EARTH
7	S1-877-010-370		SPR,LEVER BTN STOP
8	S1-867-050-040		BELT,RF
9	S1-877-093-050		FLYWHEEL ASSY
10	S1-877-090-070		BELT,MAIN
11	S1-877-070-060		SPR,ARM PULLEY RF
12	S1-877-073-030		RF PULLEY ARM ASSY
13	S1-877-010-110		FR BUTTON LEVER SPR
14	S1-877-010-520		BTN,ACTUATOR
15	S1-877-010-060		STOP BUTTON LEVER
16	S1-877-010-230		LEVER,BTN FF
17	S1-877-010-240		LEVER,BTN RWD
18	S1-877-010-320		SPR,PLATE T GEAR
19	S1-877-010-250		LEVER,BTN REC
20	S1-877-040-010		PINCH ROLLER ARM
21	S1-877-040-070		PINCH ROLLER ASSY
22	S1-877-010-270		PLATE,SW
23	S1-877-010-310		SPR,ACTUATOR
24	S1-877-053-040		TAKE UP REEL ASSY
25	S1-821-103-4A0		GEAR T ROLLER
26	S1-821-100-460		BACK TENSION SPR
27	S1-877-030-030		PANEL,HEAD
28	S1-877-040-080		PINCH ROLLER ARM SPR
29	S1-877-030-070		SPR,PANEL HEAD
30	S6-401-011-490		SW,LEAF MSW-1541T
31	S1-867-020-040		RPH COLLAR
32	S1-877-033-010		SENSING PLATE ASSY
33	S9-400-312-000		SPR,HEAD
34	S6-201-011-170		HEAD,RP-7442FS-1251
35	S1-877-030-050		ARM MG
36	S6-207-100-020		HEAD E TC-230AN(SL)
37	S1-877-020-010		LEVER,SAFETY REC
38	S1-821-100-700		GEAR,FF
39	S1-877-015-030		T ROLLER GEAR PLATE ASSY
40	S1-877-060-020		BACK TENSION SPR
41	S1-877-060-010		S REEL
42	8B-CDC-217-010		SPR-P,REC
A	S9-817-000-000		SCREW AZIMUTH M2-4.3
B	S9-210-000-000		SCREW,+/- M2-5
C	S9-C33-172-030		CAMERA(SPECIAL) SCREW M2-1.7
D	S9-999-000-010		P.WASHER 1.85-3.2-0.2
E	S9-888-000-000		P.WASHER CUT 1.2-3-0.4
F	S9-999-030-010		P.WASHER CUT 1.5-3.2-0.5
G	S9-316-000-000		FH WASHER 2.1-5-0.2
H	S9-C01-201-530		CAMERA SCREW M2-1.5

CD MECHANISM EXPLODED VIEW-1/1 (DA-11T3C)



CD MECHANISM PARTS LIST-1/1 (DA-11T3C)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	M8-ZZK-E90-070		DA11T3C
2	S2-121-A28-400		COVER GEAR
3	S2-511-A21-000		GEAR MIDDLE
4	S2-511-A21-100		GEAR,DRIVE
A	S1-PN2-03R-OSE		SCR PAN PCS 2-3

ACCESSORIES/PACKAGE LIST-1/1

REF. NO		PART NO.	KANRI NO.	DESCRIPTION
	1	8B-CDC-906-010		IB,EZ(9L)AL<A120EZSC>
	1	8B-CDC-901-010		IB,H(ECA)AL<A120HRJSC,A120HRJPC,A120HRJLC>
	1	8B-CDC-931-010		IB,HS(K)AL<A120HSSC>
	1	8B-CDC-905-010		IB,K(E)AL<A120KSC>
	1	8B-CDN-902-010		IB,LH(ESP)AL<A140LHSC>
	1	8B-CDC-902-010		IB,LH(ESP)AL<A120LHSC>
	1	8B-CDC-903-010		IB,U(ESF)AL<A120USC>
⚠	2	87-A80-036-010		AC CORD SET ASSY,E W/FLTR VOL<A140LHSC>
⚠	2	87-A80-081-010		AC CORD SET ASSY,EZ BLK<EXCEPT A120USC,A120HSSC,A140LHSC>
⚠	2	87-A80-154-010		AC CORD SET,HS 250V 3A<A120HSSC>
⚠	2	87-A80-109-010		AC CORD,HK7281 BLK U<A120USC>
⚠	3	87-099-726-010		PLUG,ADPTR CONV(K)<A120KSC>
⚠	3	87-099-789-010		PLUG,ADPTR IR44<A140LHSC>
⚠	3	87-099-789-010		PLUG,ADPTR IR44<A120HRJSC,A120HRJPC,A120HRJLC,A120LHSC>
	4	8B-CDN-961-010		RC UNIT,RC-BAT01<A140LHSC>

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2–11, IKENOHATA 1–CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

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