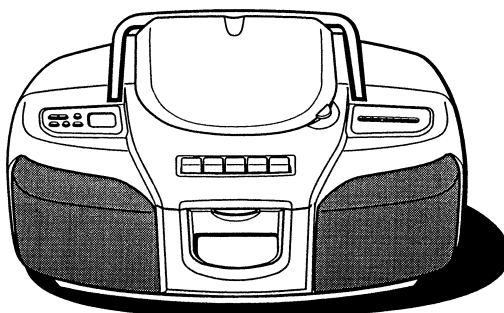


CSD-A120

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

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 requirement — DC 12 V using eight size D (R20) batteries, AC 230 V / 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 (14⁵/₈ × 7⁵/₈ × 8⁵/₈ in.) / Weight — 2.35 kg (5 lbs. 3 oz.) (excluding batteries)

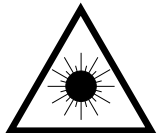
- Design and specifications are subject to change without notice.

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: 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 käyttäjän turvallisuusluokan 1 ylitävälle 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

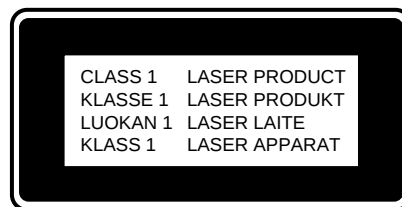
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

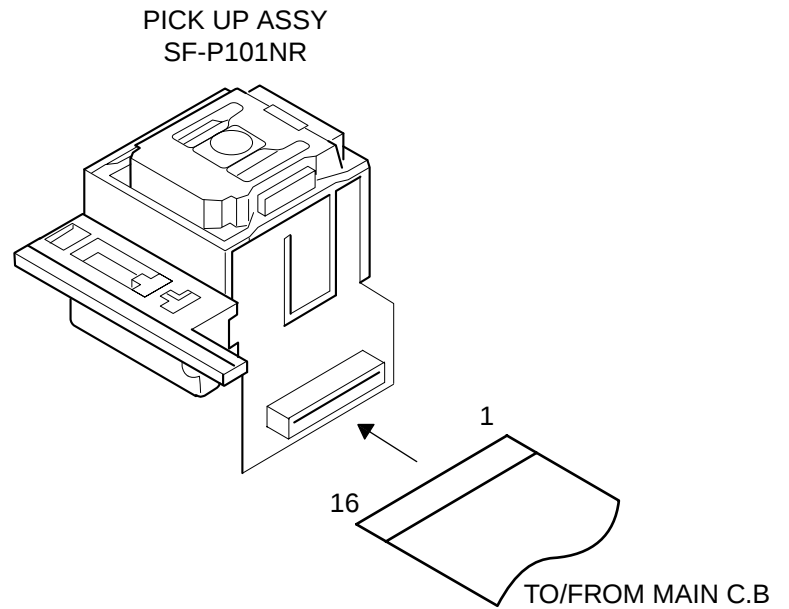
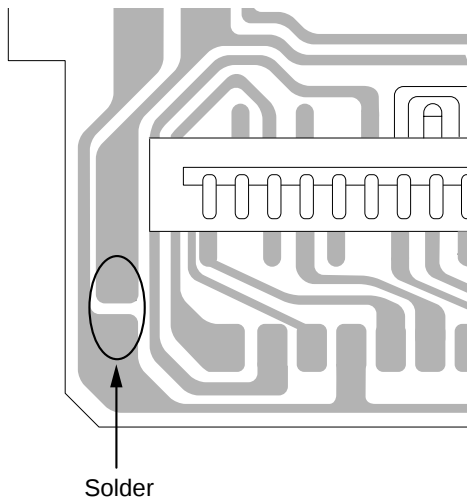
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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

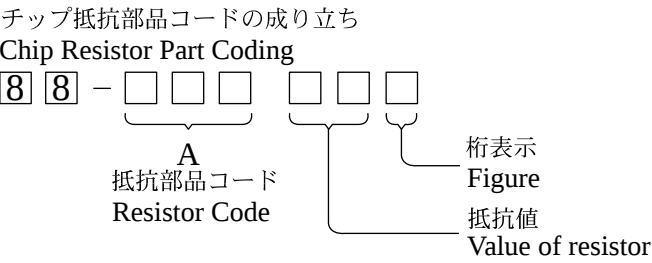
ELECTRICAL MAIN PARTS LIST-2/3

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C481	87-A11-145-080		CAP,TC U 0.01-50 Z F<USC>	RECTIFIER C.B			
C484	87-A10-176-010		CAP,CER 1000P-50 M D	C851	87-A10-182-010		CAP,CER 0.01-50 Z F
			<EXCEPT USC,EZSC,140LHSC>	C852	87-A10-182-010		CAP,CER 0.01-50 Z F
C485	87-A11-145-080		CAP,TC U 0.01-50 Z F	C853	87-A10-182-010		CAP,CER 0.01-50 Z F
			<EXCEPT 120LHSC,USC,140LHSC>	C854	87-A10-182-010		CAP,CER 0.01-50 Z F
C486	87-010-263-080		CAP, ELECT 100-10V<EXCEPT KSC,EZSC>	C855	87-010-388-080		CAP,E1000-25 M SME
C487	87-A11-148-080		CAP,TC U 0.1-50 Z F				
			<HRJSC,HRJPC,HRJLC,KSC,HSSC>	CASSETTE C.B			
C488	87-A11-145-080		CAP,TC U 0.01-50 Z F	C216	87-010-248-080		CAP, ELECT 220-10V
			<EXCEPT 120LHSC,140LHSC>	C219	87-A10-176-010		CAP,CER 1000P-50 M D
C502	87-010-248-080		CAP, ELECT 220-10V	C301	87-010-405-080		CAP, ELECT 10-50V
C503	87-A10-176-010		CAP,CER 1000P-50 M D	C302	87-010-405-080		CAP, ELECT 10-50V
C505	87-010-263-080		CAP, ELECT 100-10V	C303	87-A10-179-010		CAP,CER 3300P-50 M E
C801	87-A11-891-080		CAP,CER 470P-50 J SL				
C802	87-A11-891-080		CAP,CER 470P-50 J SL	C304	87-A10-179-010		CAP,CER 3300P-50 M E
C805	87-010-545-080		CAP, ELECT 0.22-50V	C305	87-010-382-080		CAP,E 22-25 M 11L SME
C806	87-010-545-080		CAP, ELECT 0.22-50V	C306	87-010-382-080		CAP,E 22-25 M 11L SME
C807	87-A10-176-010		CAP,CER 1000P-50 M D	C307	87-A12-369-080		CAP,M 0.027-100 J CP
C808	87-A10-176-010		CAP,CER 1000P-50 M D	C308	87-A12-369-080		CAP,M 0.027-100 J CP
C809	87-010-405-080		CAP, ELECT 10-50V				
C810	87-010-405-080		CAP, ELECT 10-50V	C309	87-010-404-080		CAP, ELECT 4.7-50V
C811	87-010-263-080		CAP, ELECT 100-10V	C310	87-010-404-080		CAP, ELECT 4.7-50V
C812	87-010-263-080		CAP, ELECT 100-10V	C311	87-A12-356-080		CAP,M 2200P-100 J CP
C813	87-010-386-080		CAP,E 330-25 M SME	C312	87-A12-356-080		CAP,M 2200P-100 J CP
				C315	87-010-221-080		CAP, ELECT 470-10V
C814	87-010-386-080		CAP,E 330-25 M SME				
C817	87-A12-380-080		CAP,M 0.22-100 J CP	C316	87-010-405-080		CAP, ELECT 10-50V
C818	87-A12-380-080		CAP,M 0.22-100 J CP	C317	87-A10-182-010		CAP,CER 0.01-50 Z F
C819	87-010-101-080		CAP, ELECT 220-16	C318	87-A10-182-010		CAP,CER 0.01-50 Z F
C820	87-010-386-080		CAP,E 330-25 M SME	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>
C821	87-010-401-080		CAP, ELECT 1-50V				
C856	87-010-405-080		CAP, ELECT 10-50V	C352	87-A10-182-010		CAP,CER 0.01-50 Z F
C857	87-010-237-080		CAP,E 1000-16 M SME	C353	87-A10-182-010		CAP,CER 0.01-50 Z F
C858	87-010-388-080		CAP,E 1000-25 M SME	CN301	8B-CDC-659-010		CONN,4P V T-HEAD
CF101	87-008-582-010		FLTR,SFU455B	SW301	8B-CDC-635-010		SW,SL 1-9-2 PS92D01
				T351	87-CD8-605-010		COIL,OSC BIAS 4A363R
CF102	87-008-261-010		FILTER, SFE10.7MA5-A<EXCEPT USC>				
CF102	87-008-582-010		FLTR,SFU455B<USC>	VR351	8B-CDC-634-010		SFR,10K
CF103	87-A90-420-010		FLTR,CF CDA10.7MG1<USC>				
CN310	8B-CDC-677-010		F-CABLE ASSY,7P 2 93MM	CD KEY&DISPLAY C.B			
CN401	8B-CDC-660-010		CONN,16P V TOC-B	DP401	8B-CDC-624-010		LED,A505RDD
				LED401	87-070-106-010		LED,SE3001DT R
CN402	8B-CDC-661-010		CONN ASSY,6P CD-ME	SW401	8B-CDC-623-010		SW,TACT 1102B160G
CN403	8B-CDC-663-010		F-CABLE ASSY,5P 2 153MM	SW402	8B-CDC-623-010		SW,TACT 1102B160G
CN404	8B-CDC-664-010		F-CABLE ASSY,8P 2 153MM	SW403	8B-CDC-623-010		SW,TACT 1102B160G
CN801	8B-CDC-657-010		CONN,4P V SPK-OUT				
CN851	8B-CDC-658-010		CONN,3P V BATT	SW404	8B-CDC-623-010		SW,TACT 1102B160G
				SW405	8B-CDC-623-010		SW,TACT 1102B160G
CNH401	8B-CDC-665-010		FF-CABLE,16P 1 200MM	SW406	8B-CDC-623-010		SW,TACT 1102B160G
HP801	8B-CDC-629-010		JACK,HTJ035-08D				
L101	8B-CDC-640-010		COIL,FMR4T5MM	BATTERY C.B			
L102	8B-CDC-639-010		COIL,FMOSC3T5MM				
L103	8B-CDC-640-010		COIL,FMR4T5MM				
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	SENSOR C.B<140LHSC>			
L803	87-005-680-080		COIL,4.7UH J LF5.0S<EXCEPT 140LHSC>	C201	87-010-378-080		CAP,E 10-16M 11L SME<140LHSC>
LF401	87-A90-133-010		SW LEAF LSA1120JAU	CN201	8B-CDN-601-010		CONN,3P REMOTE<140LHSC>
R475	87-029-366-090		FUSING RESISTOR, 1/2W-4.7 F	MOTOR C.B			
SW101	8B-CDC-644-010		SW,SL 2-2-2 SK22F03G9AA	M2	S0-M10-A09-700		MOTOR SLED ASSY
SW102	8B-CDC-644-010		SW,SL 2-2-2 SK22F03G9AA	PIN3	S2-369-750-000		PLUG,6P
SW801	8B-CDC-643-010		SW,SL 2-4-3 SK43D01G9AA	SW1	S4-S13-A01-600		SW,LEAF
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				

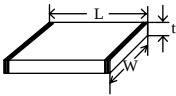
ELECTRICAL MAIN PARTS LIST-3/3

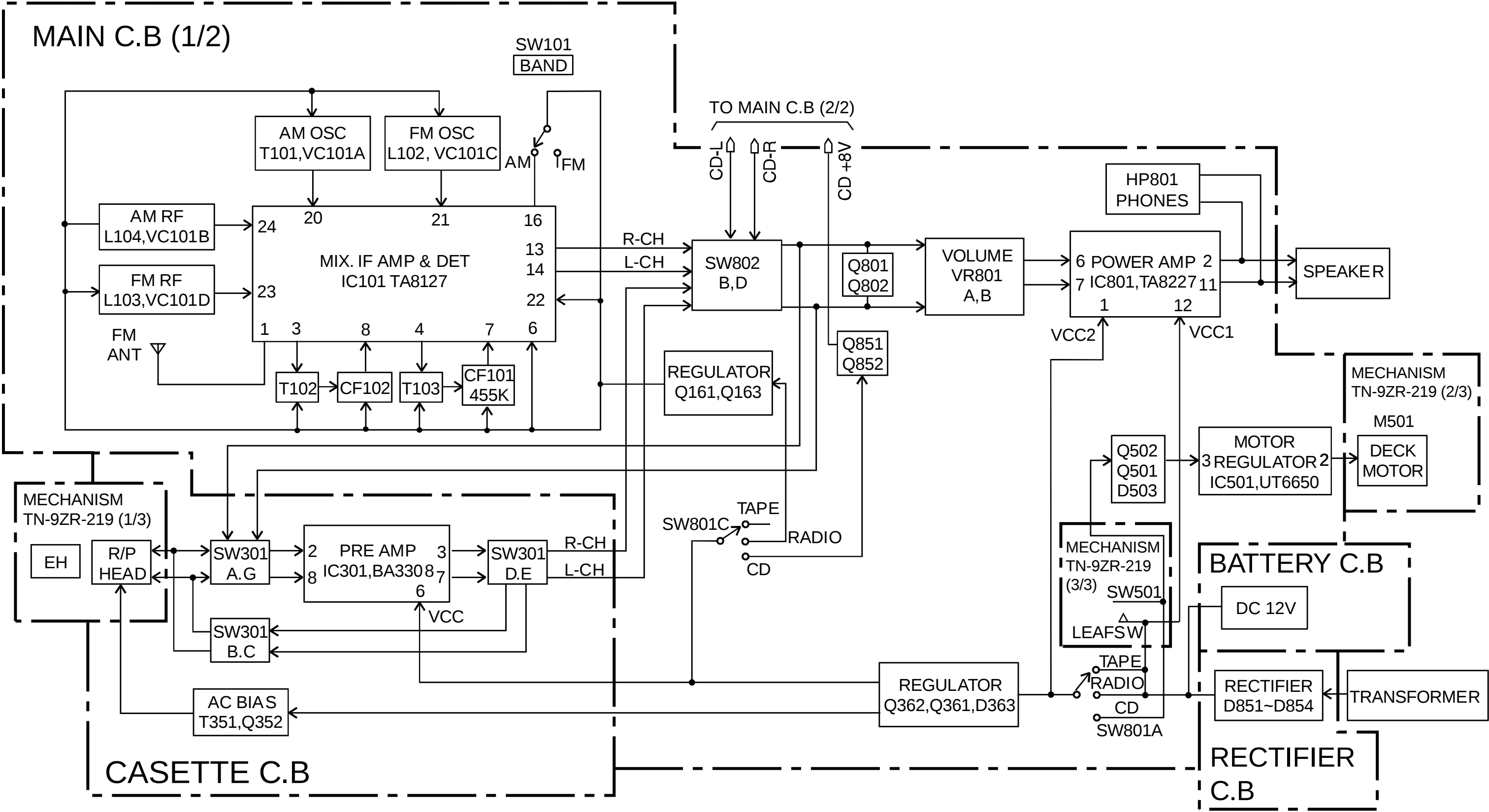
- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

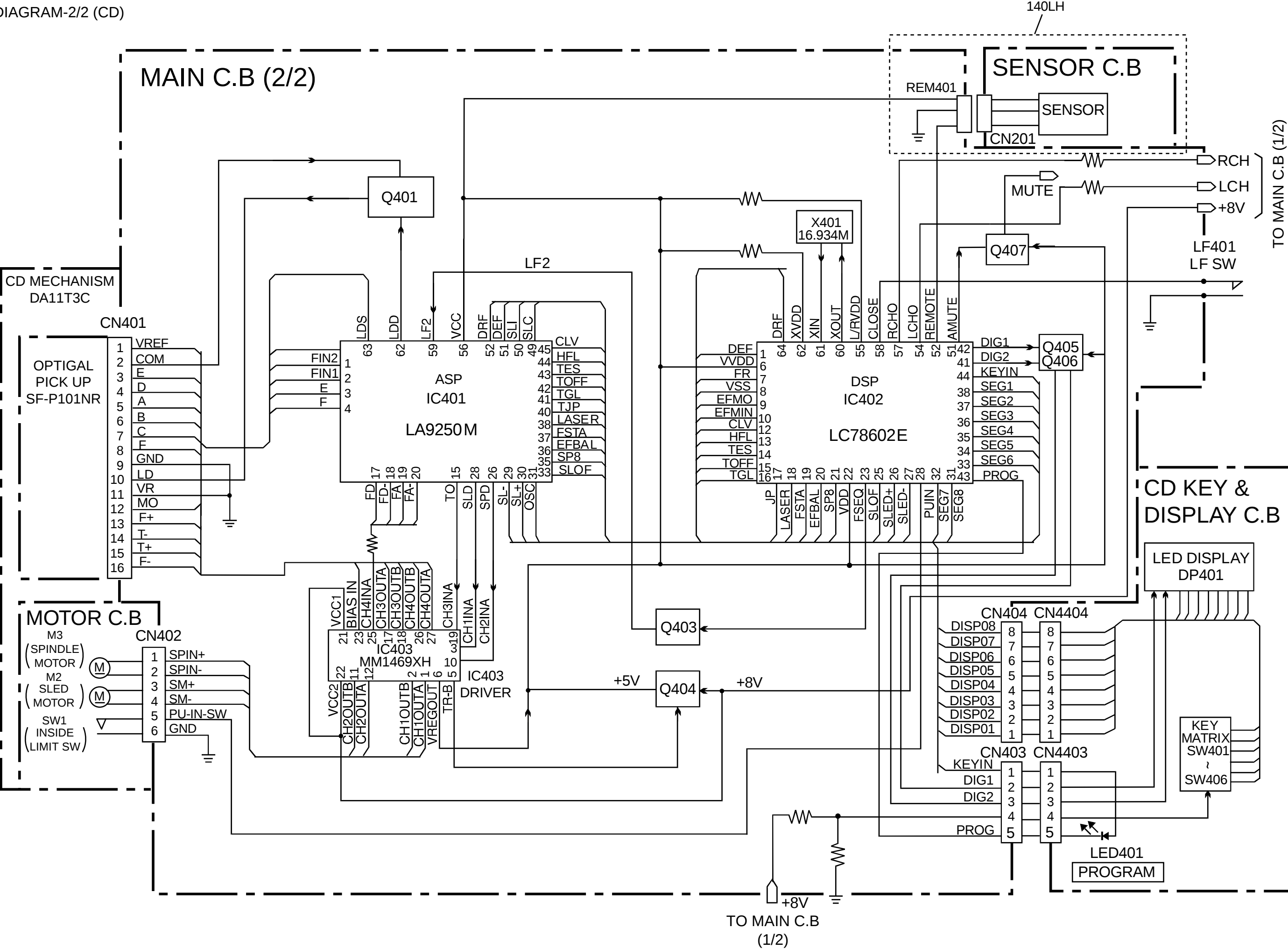
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

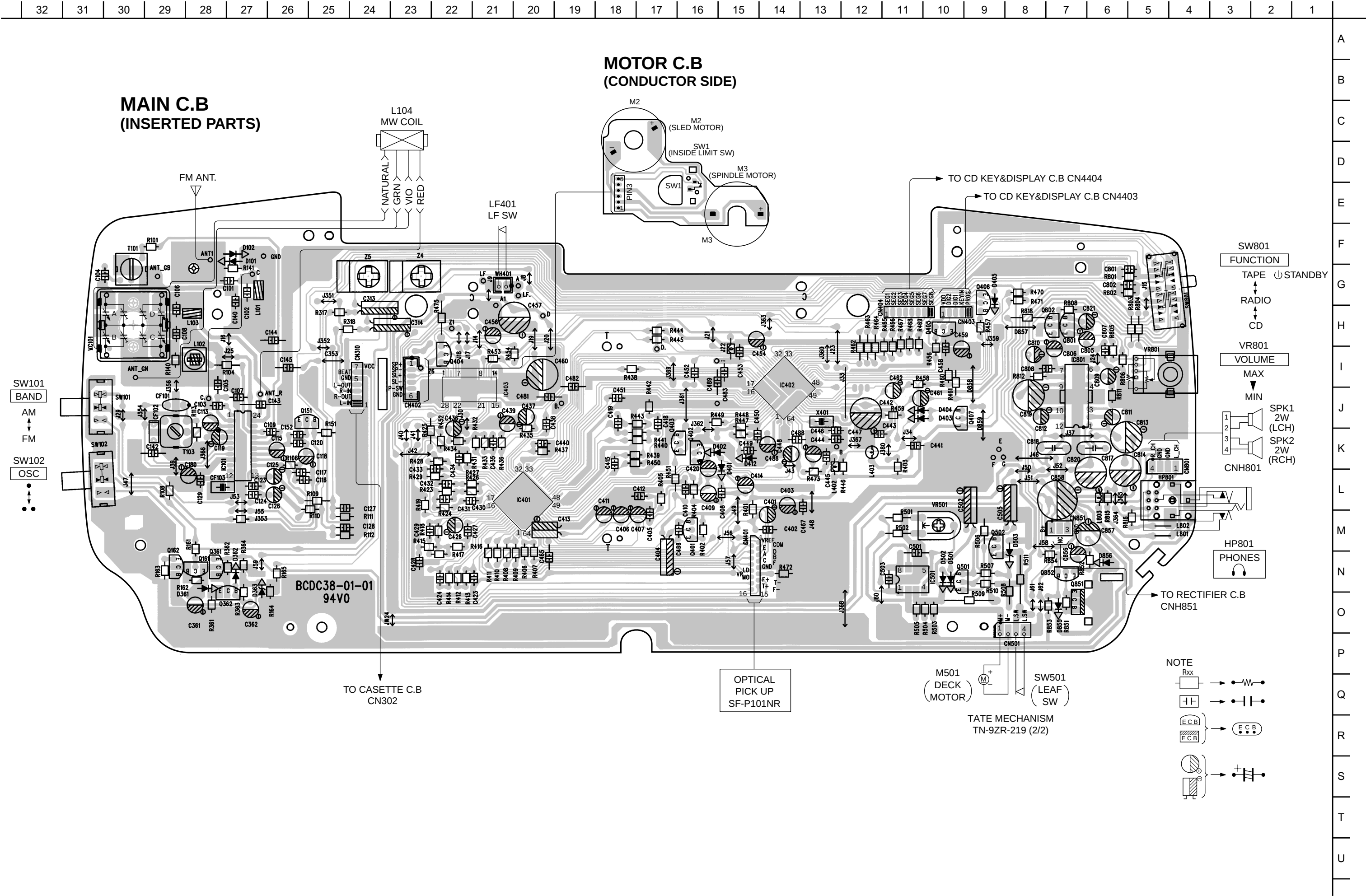


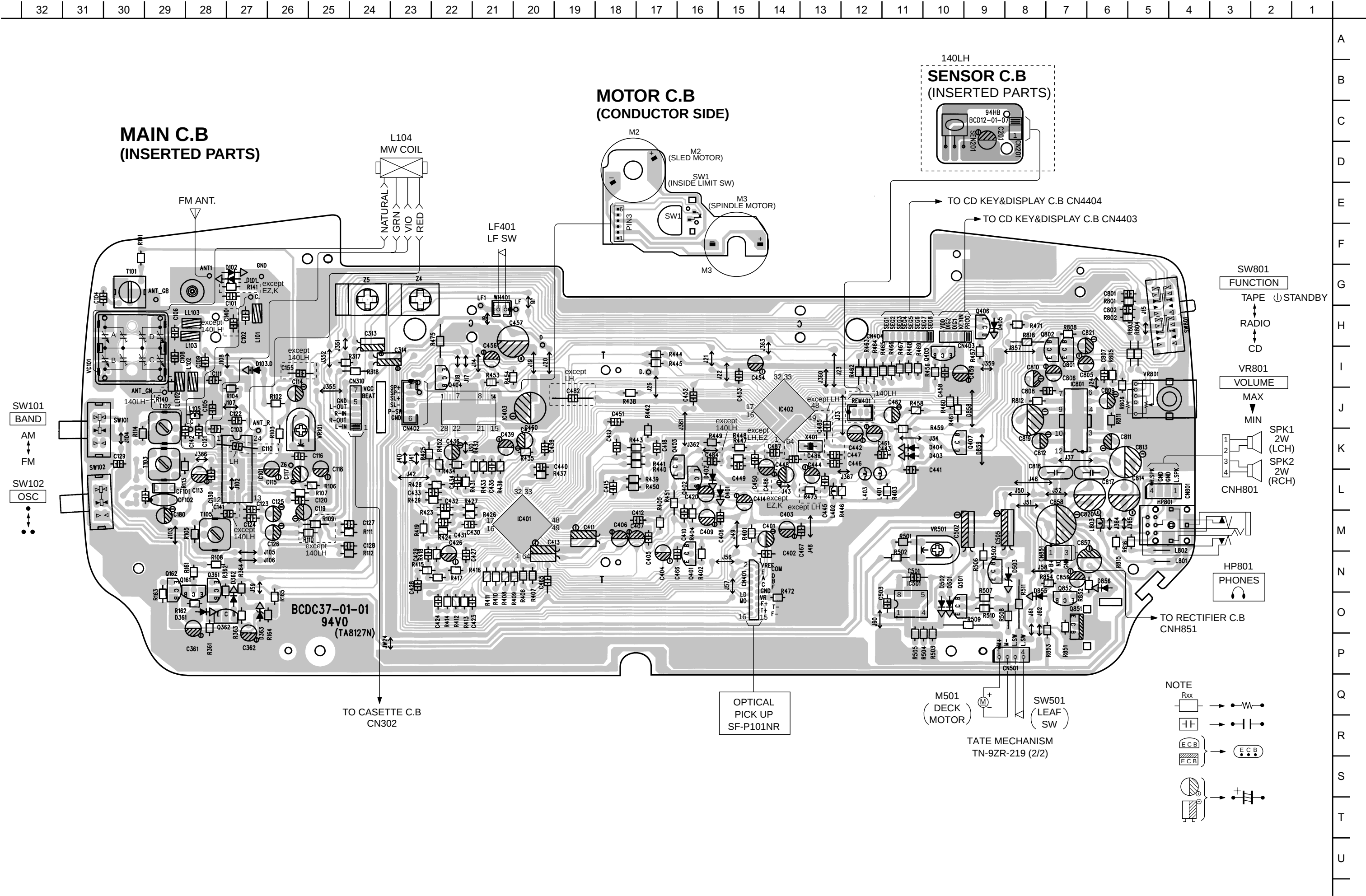
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	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

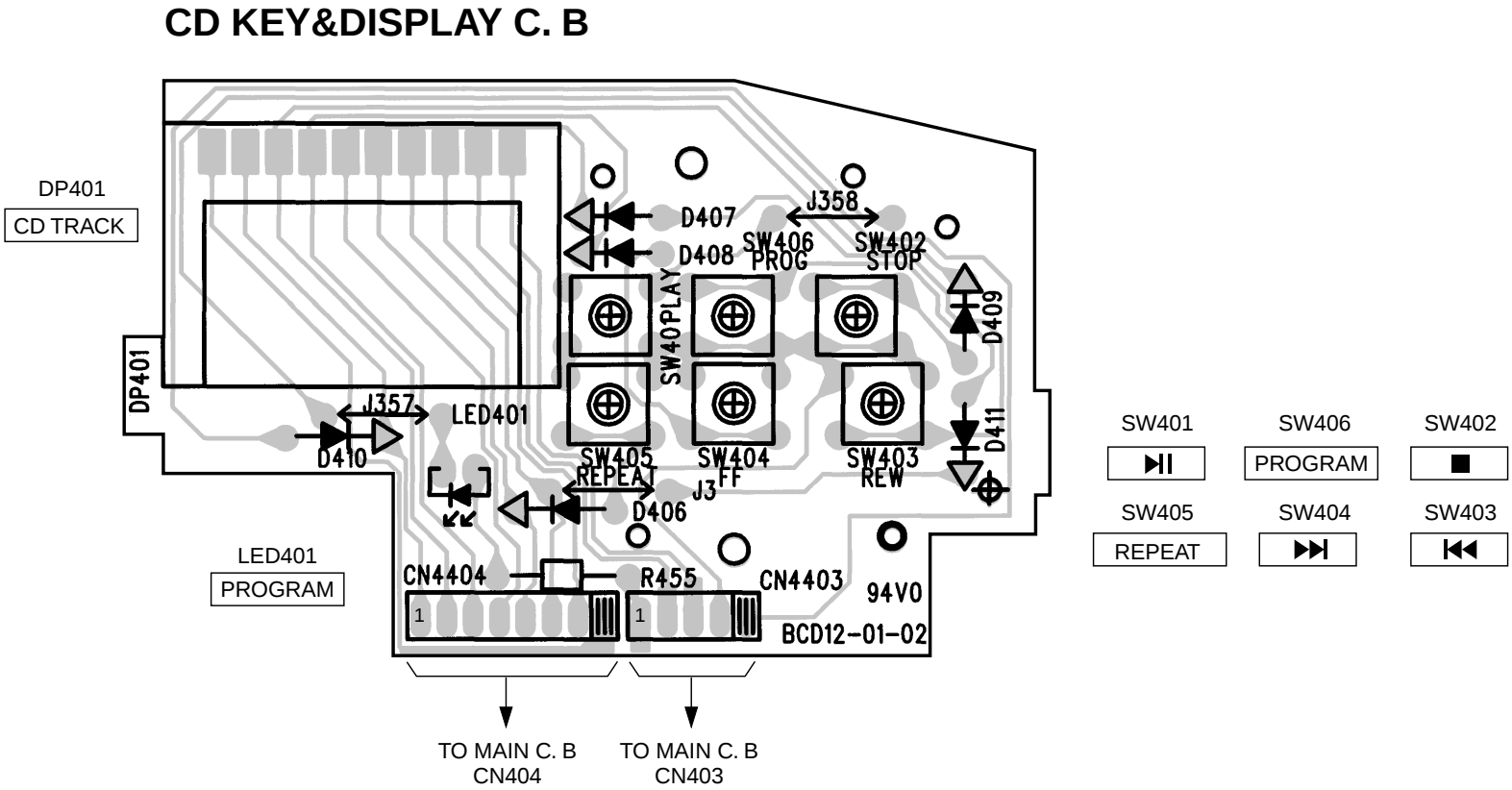
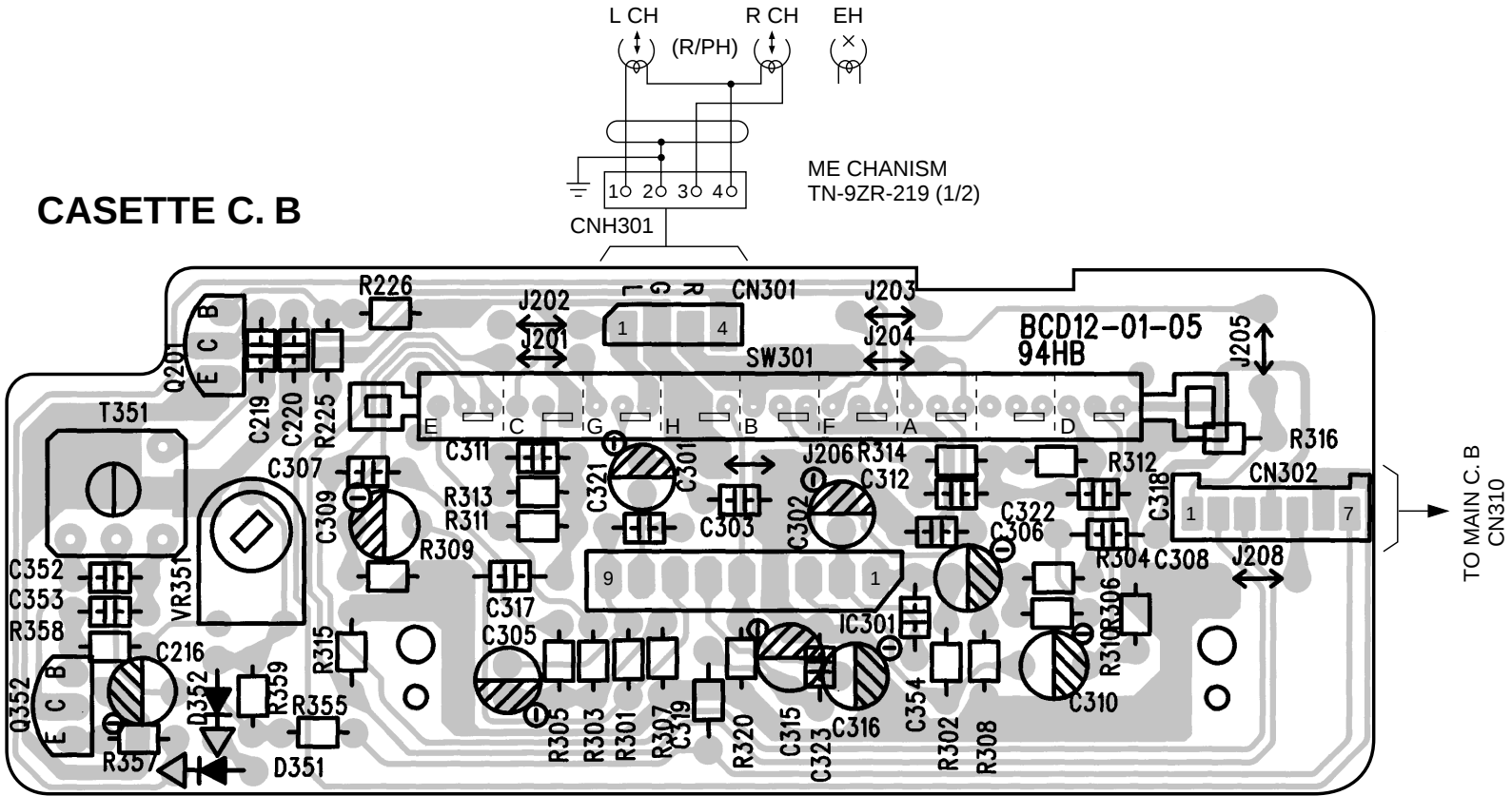








32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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NOTE

Rxx → ●—W—●

—|—|— → ●—|—|—●

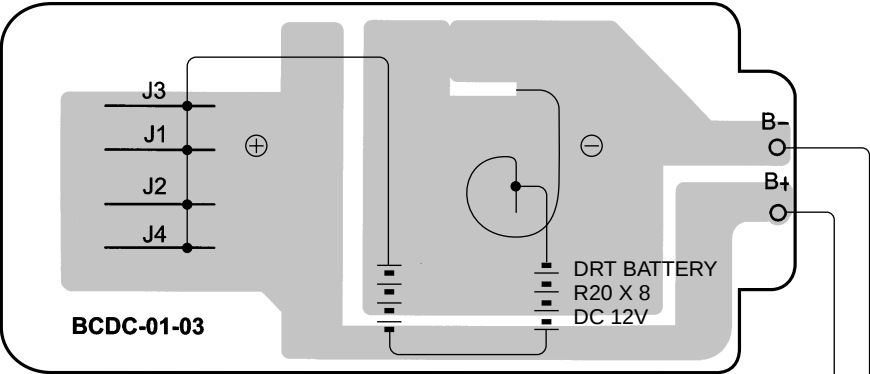
ECB → ECB

—|—|— → ●—|—|—●

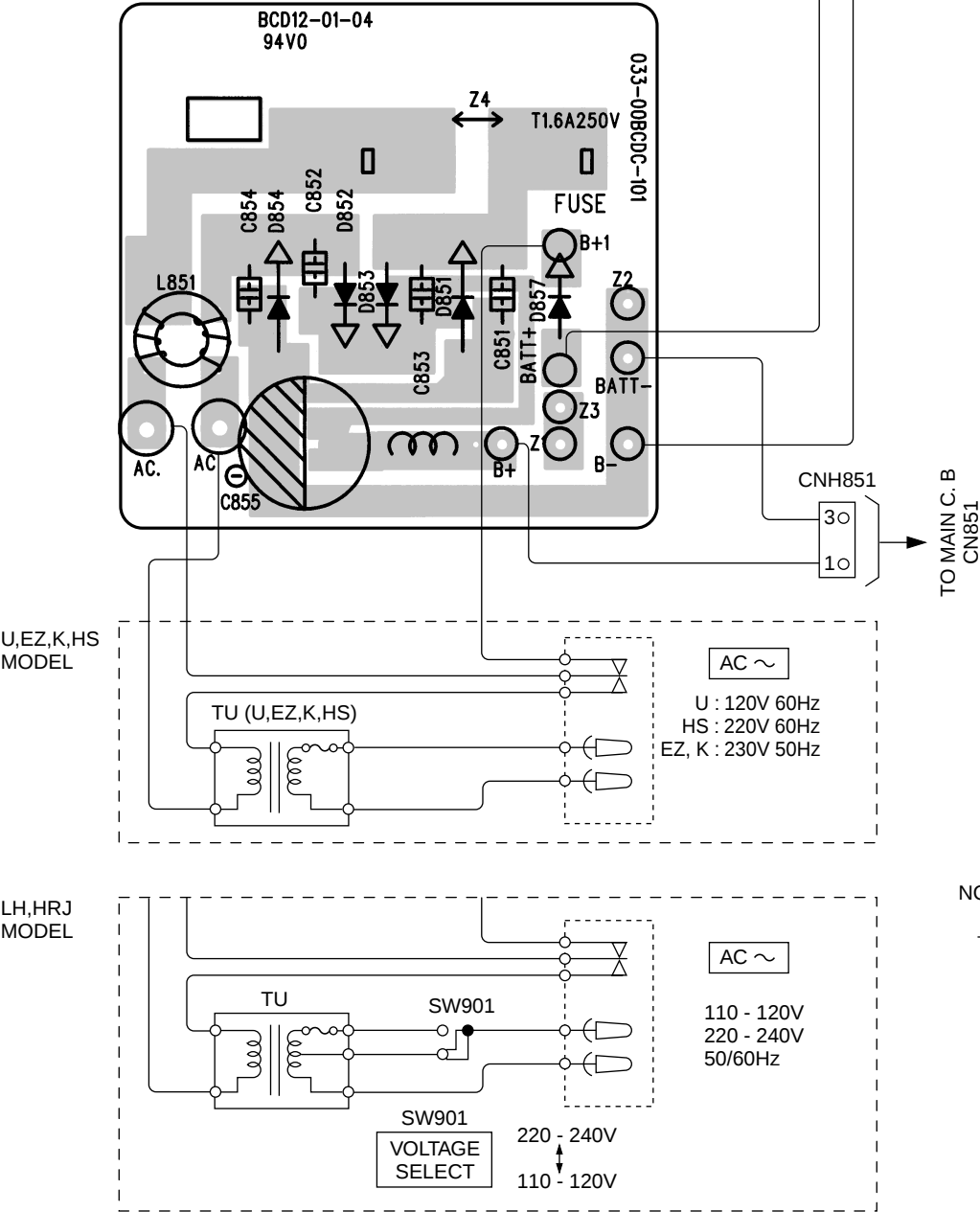
WIRING-4/4 (RECTIFIER, BATTERY)

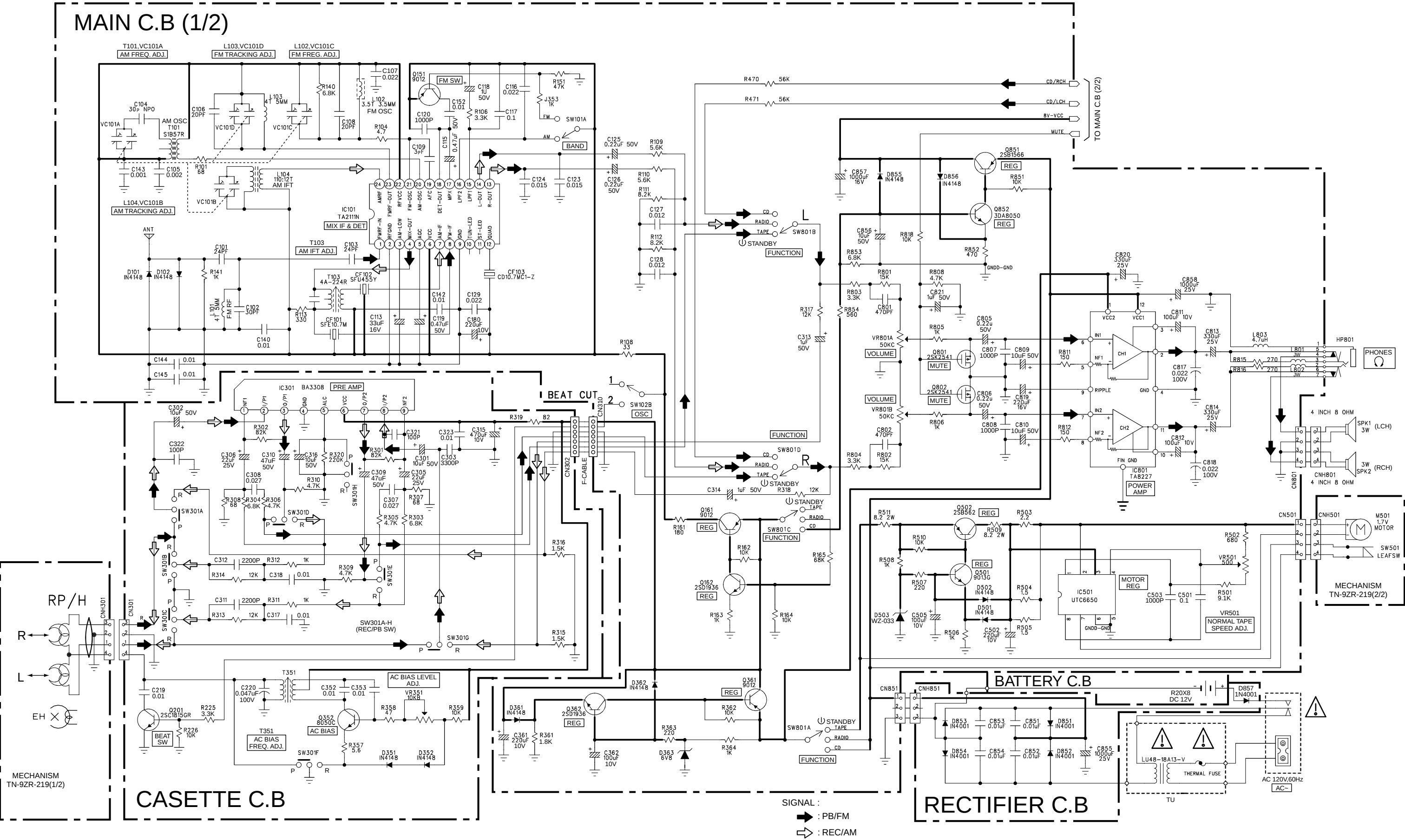
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	---	---	---	---	---	---	---	---	---

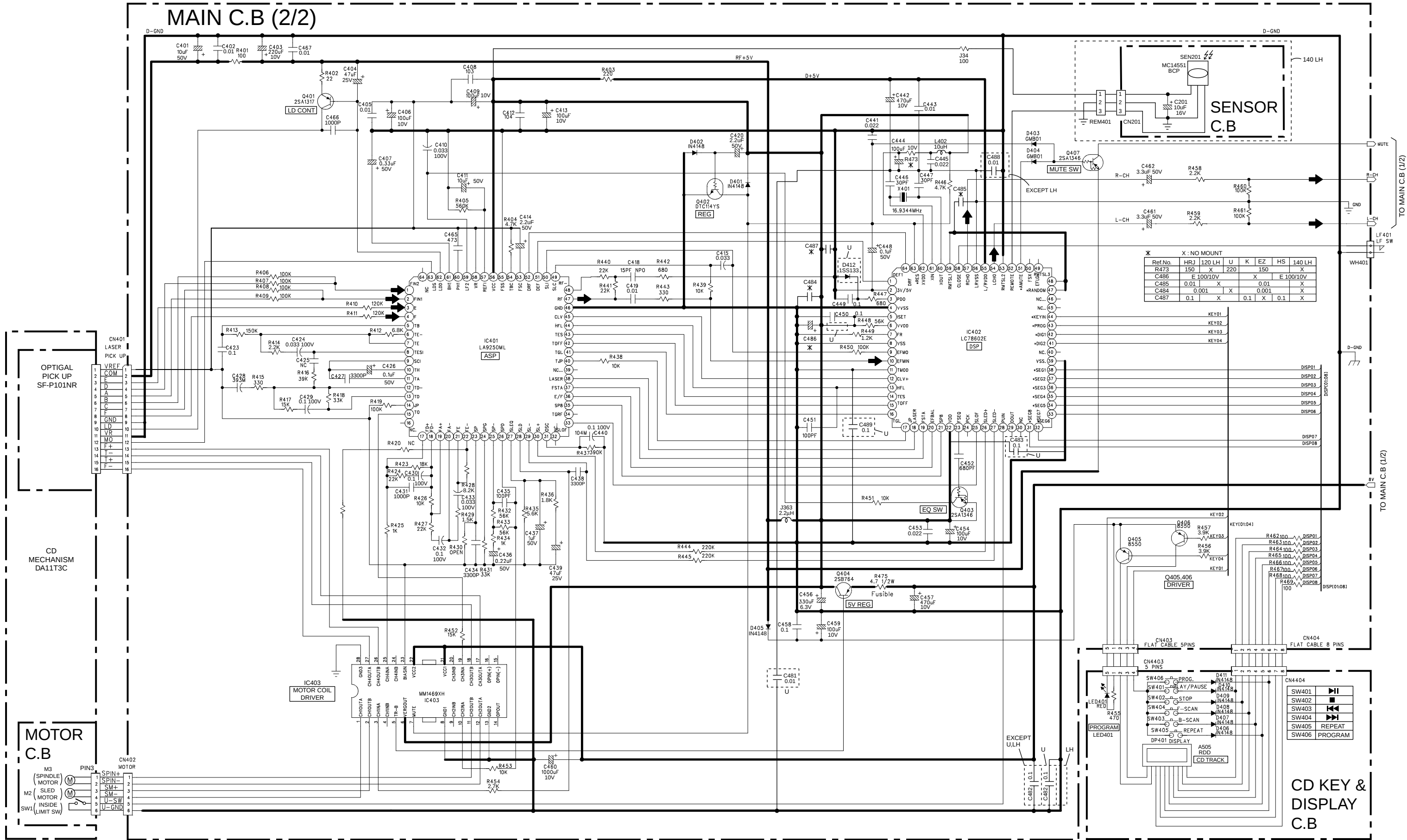
BATTERY C. B
(INSERTED PARTS)



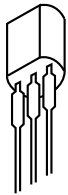
RECTIFIER C. B
(INSERTED PARTS)



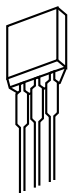




TRANSISTOR ILLUSTRATION-1/1



ECB
2SC1815



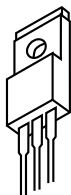
ECB
DTC114YS
2SD1936



ECB
2SB562
2SB764



SDG
2SK2541



BCE
2SB1566

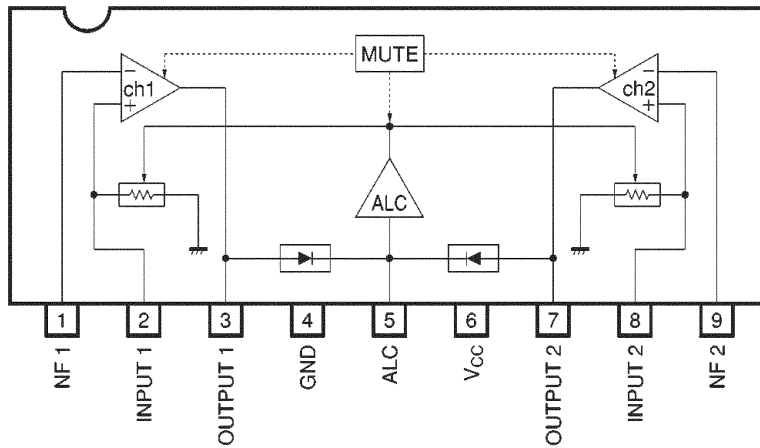


ECB
3CA8550
3CG9012
3DA8050
3DG9013

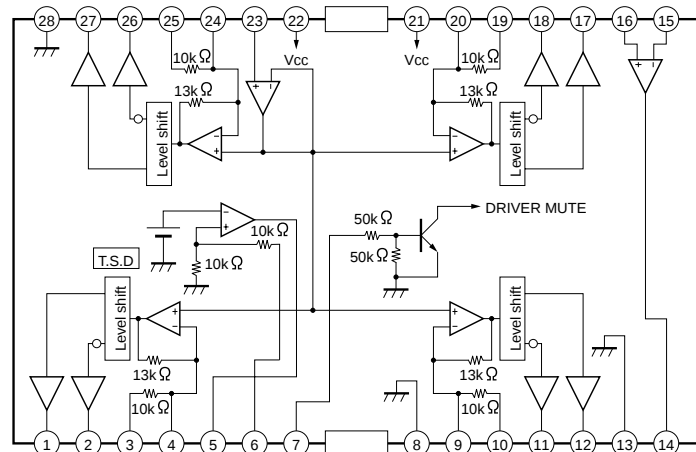


ECB
2SA1317
2SA1346

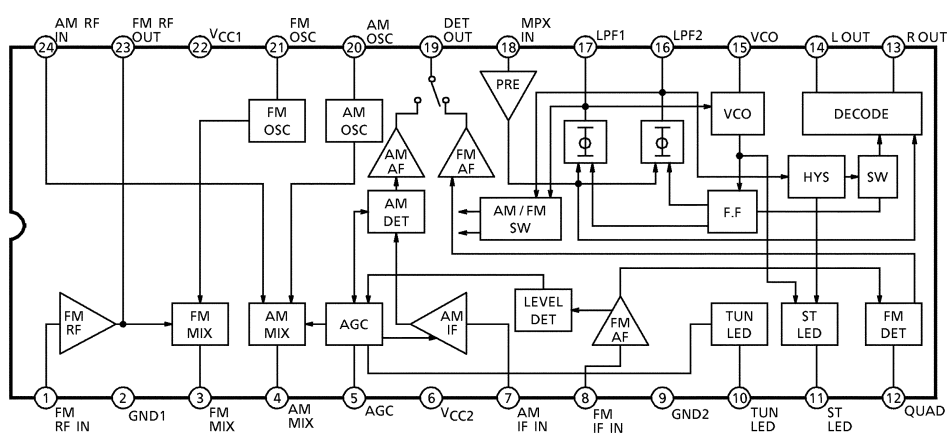
IC BLOCK DIAGRAM-1/1
IC, BA3308



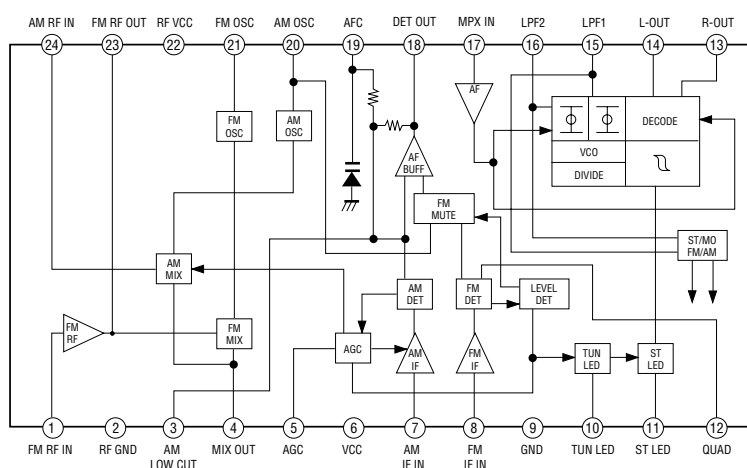
IC, MM1469XH



IC, TA8127N



IC, TA2111N



VOLTAGE CHART-1/2

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								

VOLTAGE CHART-2/2

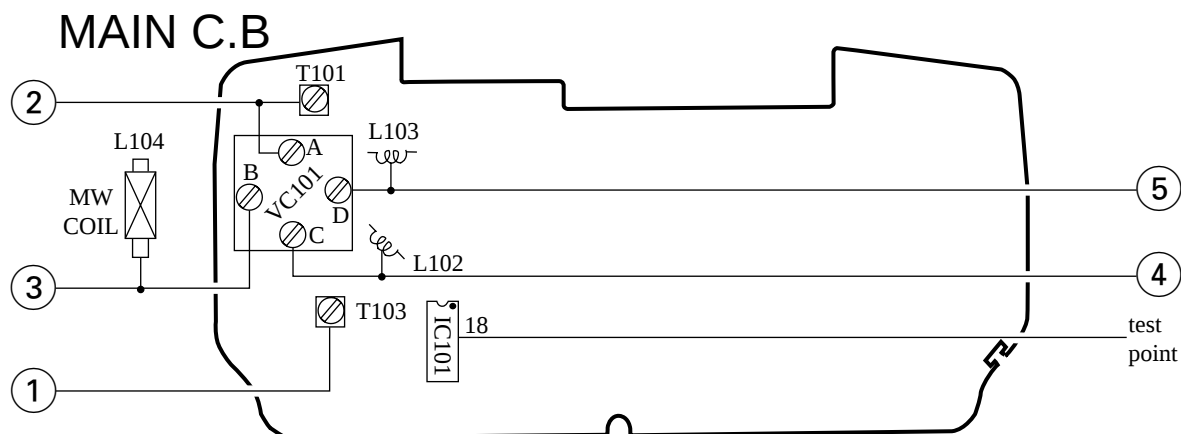
IC401 (LA9250ML)

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								

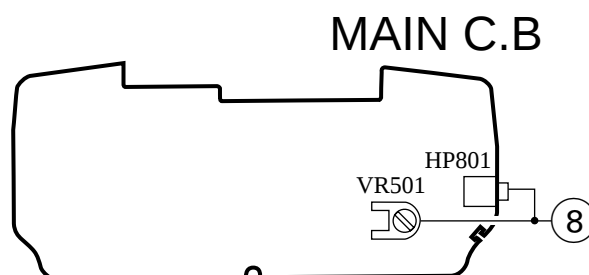
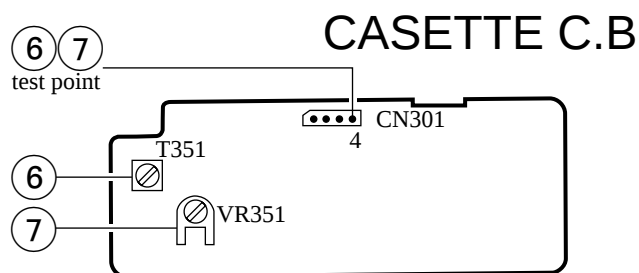
TRANSISTOR	Q404(2SB764)			Q405(A8550)			Q406(8550)		
	E	C	B	E	C	B	E	C	B
	7.60	4.93	6.97	4.20	2.00	4.30	4.20	2.00	4.30
TRANSISTOR	Q403(A1346)			Q407(A1346)					
	E	C	B	E	C	B			
	4.90	2.20	4.90	4.90	4.90	0			

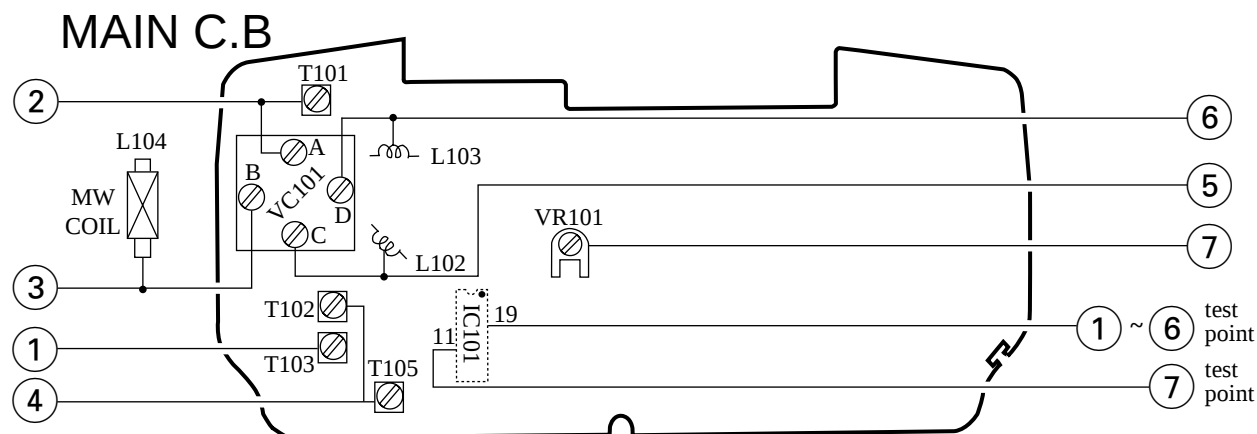
U MODEL**< TUNER SECTION >**

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 ± 0.5 MHz
7. AC BIAS Level Adjustment
Test point: CN301 4PIN
Adjustment location: VR351
VR351 14 ± 0.5 V
8. Normal Tape Speed Adjustment
Test point: HP801 (Headphone Jack)
Test Tape: B-111LNA
Adjustment location: VR501
VR501 3000Hz

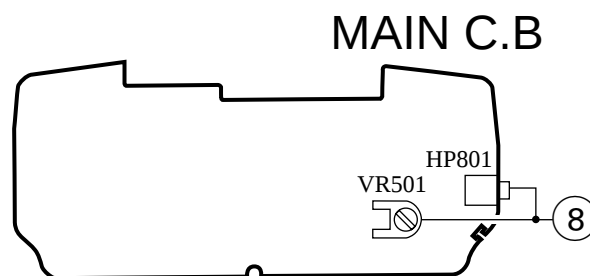
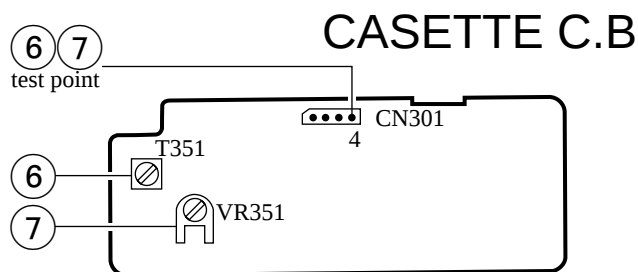


EXCEPT U MODEL**< TUNER SECTION >**

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.

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

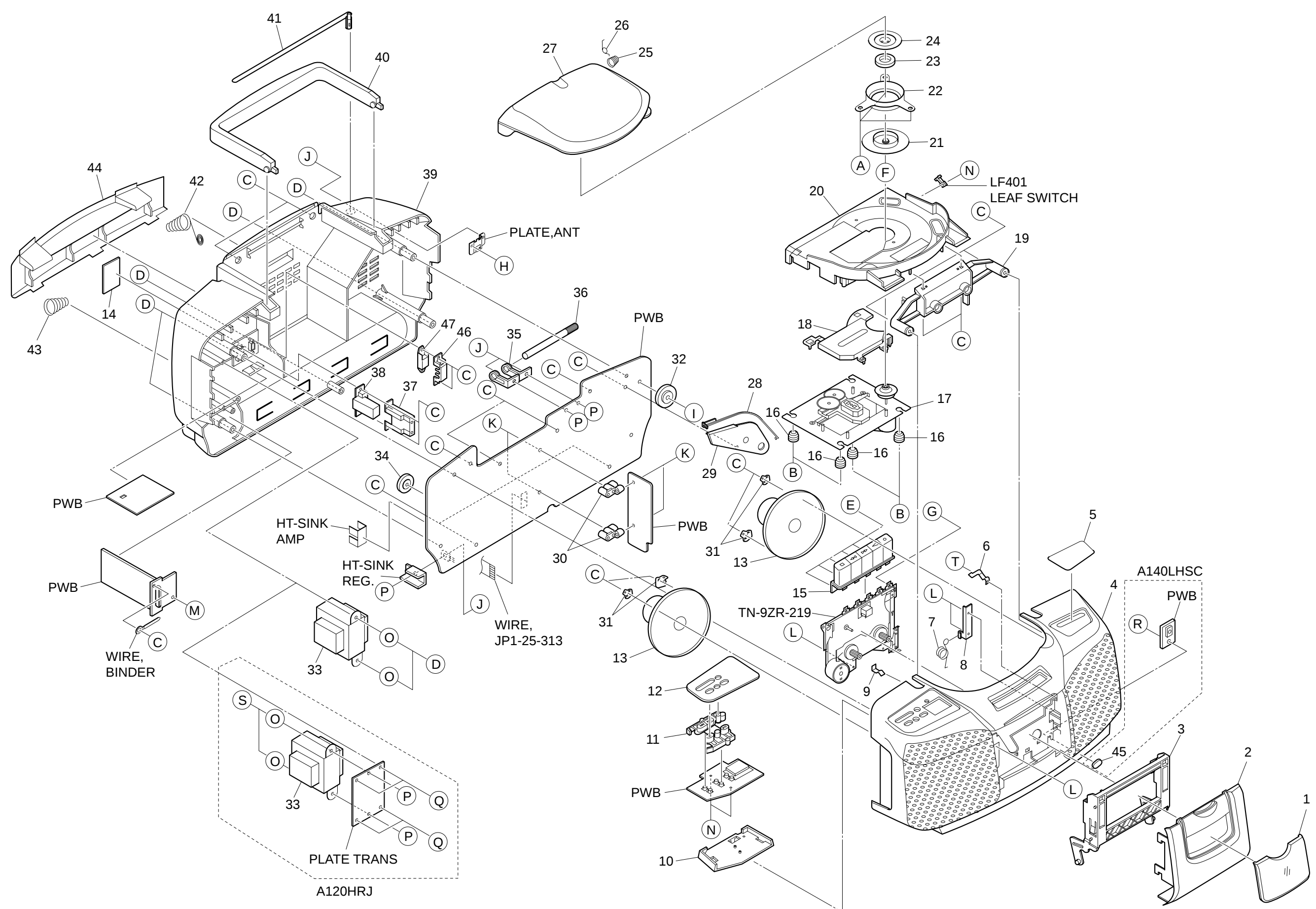
Pin No.	Pin Name	I/O	Description
39	(NC)	—	No connection.
40	TJP	I	Track jump signal input from the DSP.
41	TGL	I	Tracking gain control signal input from the DSP.
42	TOFF	I	Tracking off control signal input from the DSP.
43	TES	O	TES signal output to the DSP.
44	HFL	O	Output for the HFL signal that indicates 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	ISSET	—		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)	

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

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.



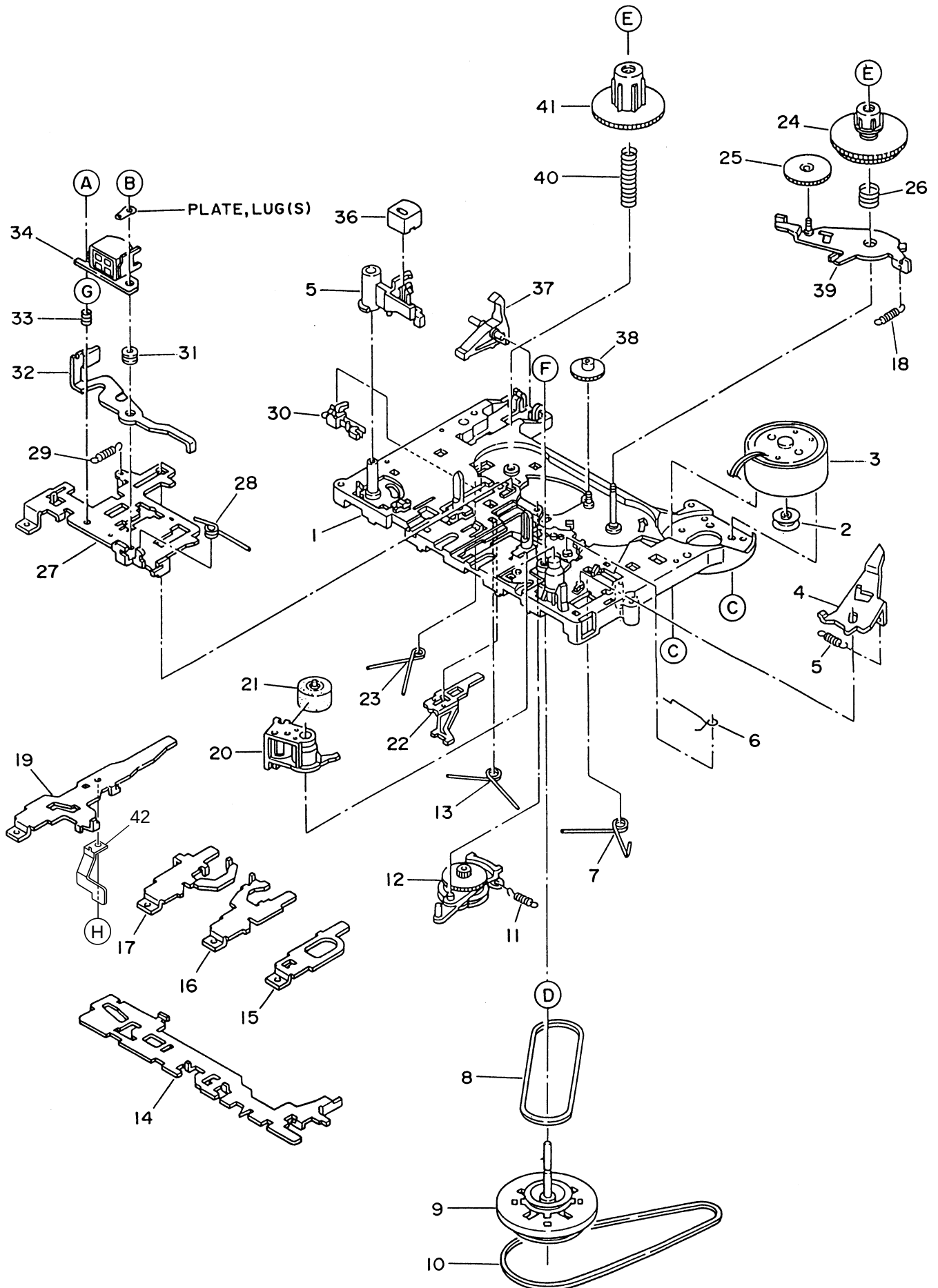
MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CDC-004-010		LENS,CASS<EXCEPT A120HRJPC,A120HRJLC>	31	8B-CDC-212-010		PLATE,SPKR
1	8B-CDC-065-010		LENS,CASS BLUE<A120HRJLC>	32	8B-CDC-016-010		KNOB,RTRY TU
1	8B-CDC-095-010		LENS,CASS PINK<A120HRJPC>				<EXCEPT A120HRJPC,A120HRJLC>
2	8B-CDC-003-010		LID,CASS<EXCEPT A120HRJPC,A120HRJLC>	32	8B-CDC-076-010		KNOB,RTRY TU BLUE<A120HRJLC>
2	8B-CDC-064-010		LID,CASS BLUE<A120HRJLC>	32	8B-CDC-106-010		KNOB,RTRY TU PINK<A120HRJPC>
				33	8B-CDC-610-010		PT,E<A120KSC,A120EZSC>
2	8B-CDC-094-010		LID,CASS PINK<A120HRJPC>				
3	8B-CDC-007-010		BOX,CASS<EXCEPT A120HRJPC,A120HRJLC>	33	8B-CDC-609-010		PT,H<EXCEPT A120USC,A120KSC,A120EZSC>
3	8B-CDC-068-010		BOX,CASS BLUE<A120HRJLC>	33	8B-CDC-607-010		PT,U<A120USC>
3	8B-CDC-098-010		BOX,CASS PINK<A120HRJPC>	34	8B-CDC-015-010		KNOB,RTRY VOL
4	8B-CDC-002-010		CABI,FR ASSY<A140LHSC>				<EXCEPT A120HRJPC,A120HRJLC>
4	8B-CDC-033-010		CABI,FR ASSY EX	34	8B-CDC-075-010		KNOB,RTRY VOL BLUE<A120HRJLC>
			<A120HRJSC,A120LHSC,A120USC,A120HSSC>	34	8B-CDC-105-010		KNOB,RTRY VOL PINK<A120HRJPC>
4	8B-CDC-061-010		CABI,FR ASSY EX BLUE<A120HRJLC>				
4	8B-CDC-091-010		CABI,FR ASSY EX PINK<A120HRJPC>	35	86-CS3-216-010		HLDR,BAR ANT
4	8B-CDC-035-010		CABI,FR ASSY EZ<A120KSC,A120EZSC>	36	8B-CDC-642-010		BAR-ANT,AM
5	8B-CDC-022-010		PLATE,TU EZ<A120KSC,A120EZSC>	37	86-CS3-211-010		COVER, AC SOCKET
				38	87-A60-178-010		JACK,AC E W/SW<EXCEPT A120USC>
5	8B-CDC-023-010		PLATE,TU HR<A120HRJSC,A120HSSC>	38	8B-CDC-626-010		JACK,AC U<A120USC>
5	8B-CDC-079-010		PLATE,TU HR BLUE<A120HRJLC>				
5	8B-CDC-108-010		PLATE,TU HR PINK<A120HRJPC>	39	8B-CDC-010-010		CABI,REAR<EXCEPT A120HRJPC,A120HRJLC>
5	8B-CDC-020-010		PLATE,TU U<A120LHSC,A120USC,A140LHSC>	39	8B-CDC-071-010		CABI,REAR BLUE<A120HRJLC>
6	8B-CDC-217-010		SPR-P,REC	39	8B-CDC-101-010		CABI,REAR PINK<A120HRJPC>
7	8B-CDC-216-010		SPR-T,CASS	40	8B-CDC-013-010		HANDL,<EXCEPT A120HRJPC,A120HRJLC>
8	8B-CDC-213-010		PLATE,CASS	40	8B-CDC-074-010		HANDL,BLUE<A120HRJLC>
9	8A-CM3-211-010		SPR-P,CASS				
10	8B-CDC-204-010		HLDR,CD KEY	40	8B-CDC-104-010		HANDL,PINK<A120HRJPC>
11	8B-CDC-006-010		KEY,CD<EXCEPT A120HRJPC,A120HRJLC>	41	8B-CDC-679-010		ANT,ROD FM
11	8B-CDC-067-010		KEY,CD BLUE<A120HRJPC,A120HRJLC>	42	8B-CDC-218-010		SPR,BATT (+/-)
12	8B-CDC-018-010		PLATE,CD EX<EXCEPT A120HRJPC,A120HRJLC>	43	8B-CDC-219-010		SPR,BATT (-)
12	8B-CDC-077-010		PLATE,CD EX BLUE<A120HRJLC>	44	8B-CDC-011-010		LID,BATT<EXCEPT A120HRJPC,A120HRJLC>
12	8B-CDC-107-010		PLATE,CD EX PINK<A120HRJPC>				
13	8B-CDC-625-010		SPKR, 80HM BCD-C	44	8B-CDC-072-010		LID,BATT BLUE<A120HRJLC>
				44	8B-CDC-102-010		LID,BATT PINK<A120HRJPC>
14	8B-CDC-030-010		PLATE,AC VOLTAGE<EXCEPT A120USC,A120KSC,A120EZSC,A120HSSC>	45	8B-CDC-001-010		LENS,REMOTE CONTROL<A140LHSC>
15	8B-CDC-005-010		KEY,CASS SET	46	86-CS3-210-010		COVER, VOLTAGE<EXCEPT A120USC,A120KSC,A120EZSC,A120HSSC>
			<EXCEPT A120HRJPC,A120HRJLC>	47	87-A90-146-010		SW,SL 1-1-2<EXCEPT A120USC,A120KSC,A120EZSC>
15	8B-CDC-066-010		KEY,CASS SET BLUE<A120HRJLC>				
15	8B-CDC-096-010		KEY,CASS SET PINK<A120HRJPC>	A	87-621-072-410		QT1+2.6-5
16	8B-CDC-210-010		CUSHION,CD	B	8B-CDC-211-010		S-SCREW,CD
17	M8-ZZK-E90-070		DA11T3C	C	87-745-095-410		SCREW UT2+3-8
18	8B-CDC-038-010		PANEL,CD (SANYO)	D	87-651-103-410		SCREW VT1+3-25
19	8B-CDC-203-010		HLDR,CD	E	87-571-033-410		TAPPING SCREW, VIT+2-4
20	8B-CDC-012-010		CHAS,CD<EXCEPT A120HRJPC,A120HRJLC>				
20	8B-CDC-073-010		CHAS,CD BLUE<A120HRJLC>	F	87-251-033-410		U+2-4
20	8B-CDC-103-010		CHAS,CD PINK<A120HRJPC>	G	87-641-038-410		UT1+2-12
21	8B-CDC-207-010		BASE,CHUCK<EXCEPT A140LHSC>	H	87-741-094-410		UT2+3-6
21	8B-CDC-220-010		BASE,CHUCK (SANYO)<A140LHSC>	I	87-261-072-410		V+2.6-5
22	8B-CDC-206-010		HLDR,CHUCK	J	87-265-095-410		V+3-8 NI
23	87-036-368-010		MAGNET				
24	8B-CDC-208-010		PLATE,CHUCK	K	87-651-075-410		VT1 +2.6-10
25	87-CD9-211-010		GEAR,	L	87-651-036-410		VT1+2-8
26	8B-CDC-215-010		SPR-T,CD	M	87-651-073-410		VT1+2.6-6
27	8B-CDC-004-010		LID,CD<A140LHSC>	N	87-751-035-410		VT2+2-6W/0 SLOT
27	8B-CDC-002-010		LID,CD	O	86-CS3-218-010		W,3.5-14-0.5
			<EXCEPT A120HRJPC,A120HRJLC,A140LHSC>				
27	8B-CDC-063-010		LID,CD BLUE<A120HRJLC>	P	86-CS3-217-010		NUT, M3X0.5P NI
27	8B-CDC-093-010		LID,CD PINK<A120HRJPC>	Q	87-651-099-410		VT1+3-15<A120HRJSC,A120HRJPC,A120HRJLC>
28	8B-CDC-014-010		POINTER,	R	87-751-096-410		VT2+3-10 GLD<A140LHSC>
29	8B-CDC-201-010		HLDR,TU	S	87-581-096-410		UIT +3-10
30	8B-CDC-205-010		HLDR,PWB				<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		

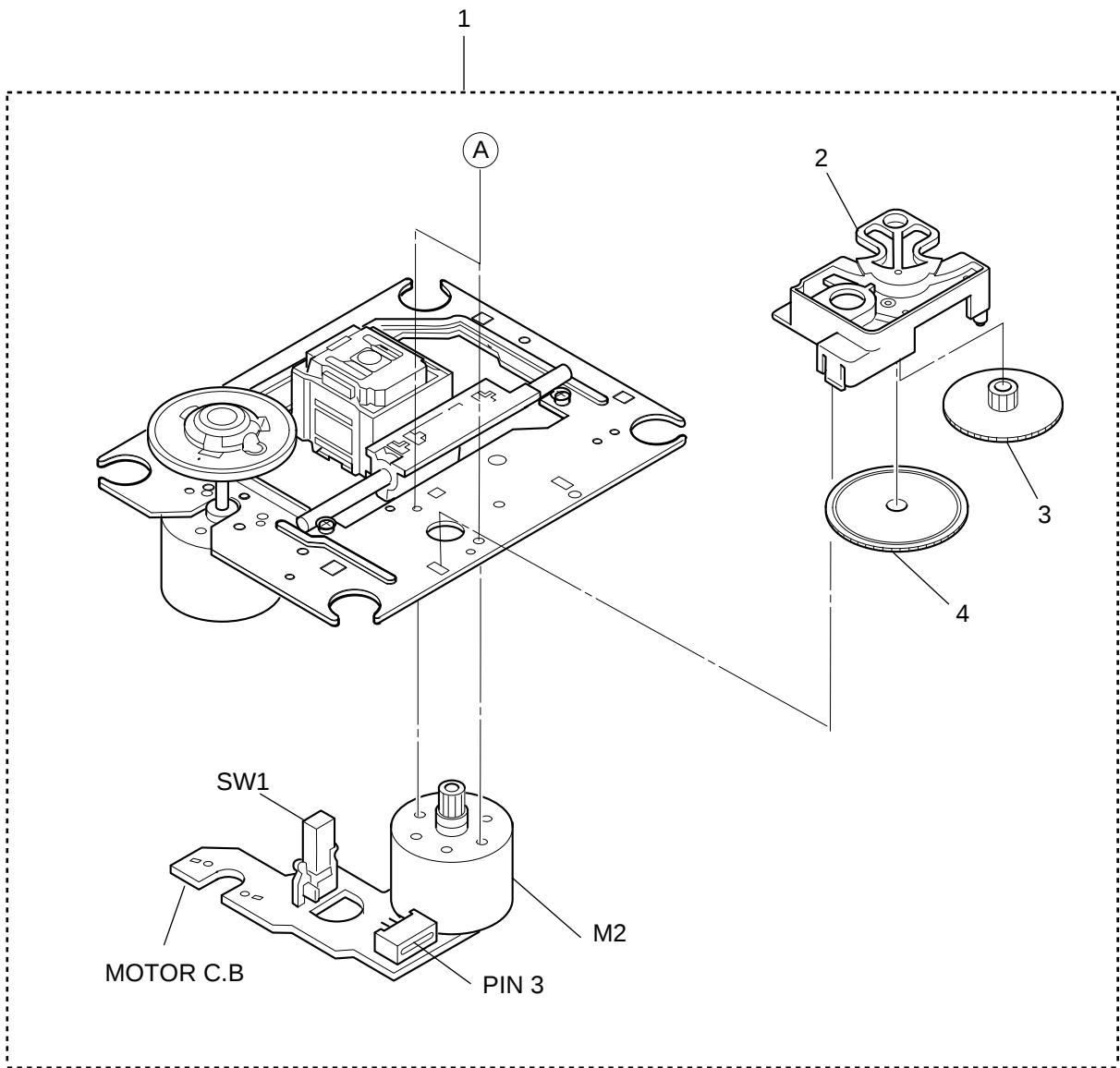
TAPE MECHANISM EXPLODED VIEW-1/1 (TN-9ZR-219)



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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S1-877-013-120		CHASSIS ASSY	26	S1-821-100-460		BACK TENSION SPR
2	S1-877-120-010		MOTOR PULLEY	27	S1-877-030-030		PANEL,HEAD
3	S6-002-070-100		MOTOR FR-410CA-12250T	28	S1-877-040-080		PINCH ROLLER ARM SPR
4	S1-877-010-170		AUTO LEVER	29	S1-877-030-070		SPR,PANEL HEAD
5	S1-877-010-190		AUTO LEVER SPR	30	S6-401-011-490		SW,LEAF MSW-1541T
6	S1-877-030-090		SPR,EARTH	31	S1-867-020-040		RPH COLLAR
7	S1-877-010-370		SPR,LEVER BTN STOP	32	S1-877-033-010		SENSING PLATE ASSY
8	S1-867-050-040		BELT,RF	33	S9-400-312-000		SPR,HEAD
9	S1-877-093-050		FLYWHEEL ASSY	34	S6-201-011-170		HEAD,RP-7442FS-1251
10	S1-877-090-070		BELT,MAIN	35	S1-877-030-050		ARM MG
11	S1-877-070-060		SPR,ARM PULLEY RF	36	S6-207-100-020		HEAD E TC-230AN(SL)
12	S1-877-073-030		RF PULLEY ARM ASSY	37	S1-877-020-010		LEVER,SAFETY REC
13	S1-877-010-110		FR BUTTON LEVER SPR	38	S1-821-100-700		GEAR,FF
14	S1-877-010-520		BTN,ACTUATOR	39	S1-877-015-030		T ROLLER GEAR PLATE ASSY
15	S1-877-010-060		STOP BUTTON LEVER	40	S1-877-060-020		BACK TENSION SPR
16	S1-877-010-230		LEVER,BTN FF	41	S1-877-060-010		S REEL
17	S1-877-010-240		LEVER,BTN RWD	42	8B-CDC-217-010		SPR-P,REC
18	S1-877-010-320		SPR,PLATE T GEAR	A	S9-817-000-000		SCREW AZIMUTH M2-4.3
19	S1-877-010-250		LEVER,BTN REC	B	S9-210-000-000		SCREW,+/- M2-5
20	S1-877-040-010		PINCH ROLLER ARM	C	S9-C33-172-030		CAMERA(SPECIAL) SCREW M2-1.7
21	S1-877-040-070		PINCH ROLLER ASSY	D	S9-999-000-010		P.WASHER 1.85-3.2-0.2
22	S1-877-010-270		PLATE,SW	E	S9-888-000-000		P.WASHER CUT 1.2-3-0.4
23	S1-877-010-310		SPR,ACTUATOR	F	S9-999-030-010		P.WASHER CUT 1.5-3.2-0.5
24	S1-877-053-040		TAKE UP REEL ASSY	G	S9-316-000-000		FH WASHER 2.1-5-0.2
25	S1-821-103-4A0		GEAR T ROLLER	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-0SE		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