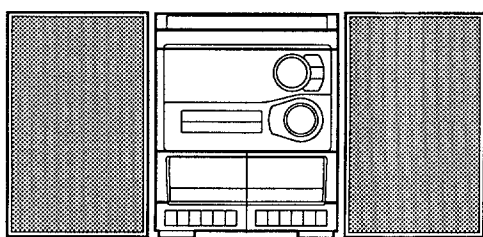


aiwa



NSX-S202 NSX-S205



CD STEREO SYSTEM

- BASIC TAPE MECHANISM: TN-21ZFW-1788, TN-591SW-143
- BASIC CD MECHANISM: 4ZG-1 Z3/Z4DLSHNM
- TYPE: LH, HE, HR

REVISION PUBLISHING

System		CD Mechanism	Tape Mechanism
NSX-S202	HE	Z4DLSHNC	TN-21ZFW-1788
	LH	Z3DLSHNM	
	HR	Z3DLSHNM, Z4DLSHNC	
NSX-S205	HE	Z4DLSHNC	TN-591SW-143
	LH	Z4DLSHNC	
	HR	Z3DLSHNM	

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-S202	CX-NS202	SX-NS202	RC UNIT, 6AS14
NSX-S205	CX-NS205	SX-NS302	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual", S/M Code No. 09-985-265-7FE.
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1. (S/M Code No. 09-985-249-7OT)

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

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

ADVARSEL!

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

This Compact Disc player is classified as a CLASS 1 LASER product.

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

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

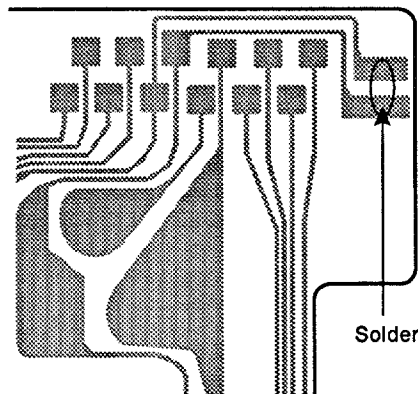
Precaution to replace Optical block

(KSS – 213F)

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 right figure.

PICK-UP Assy P.C.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, the secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased 1 V or less using a multimeter or an oscilloscope.

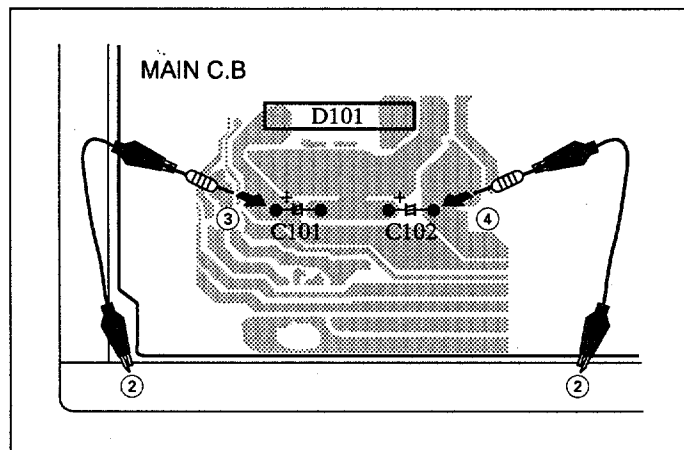


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

• Good or no good judgement of the MICROCOMPUTER

- ① Turn on the AC main power.
- ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
- ③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

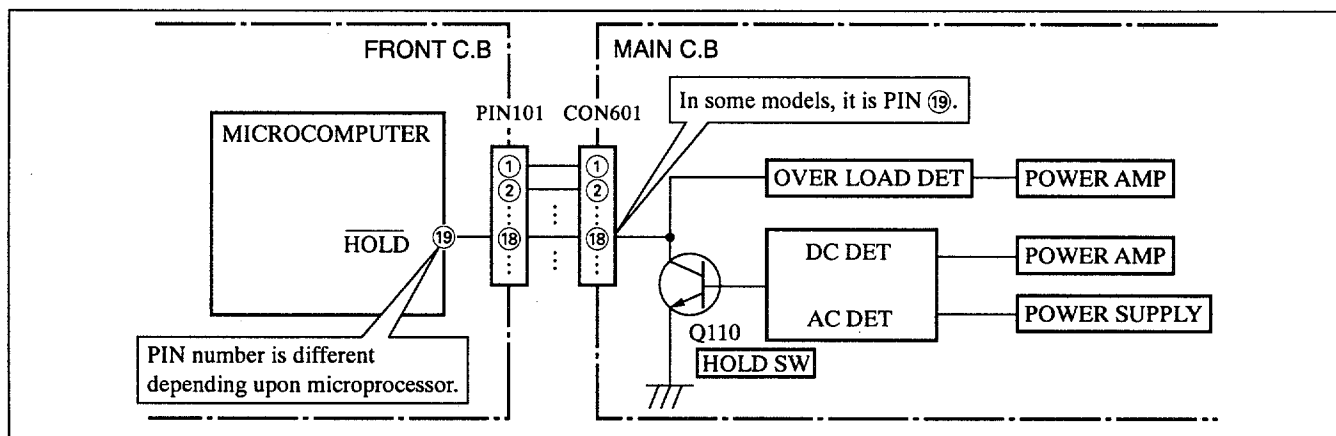


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

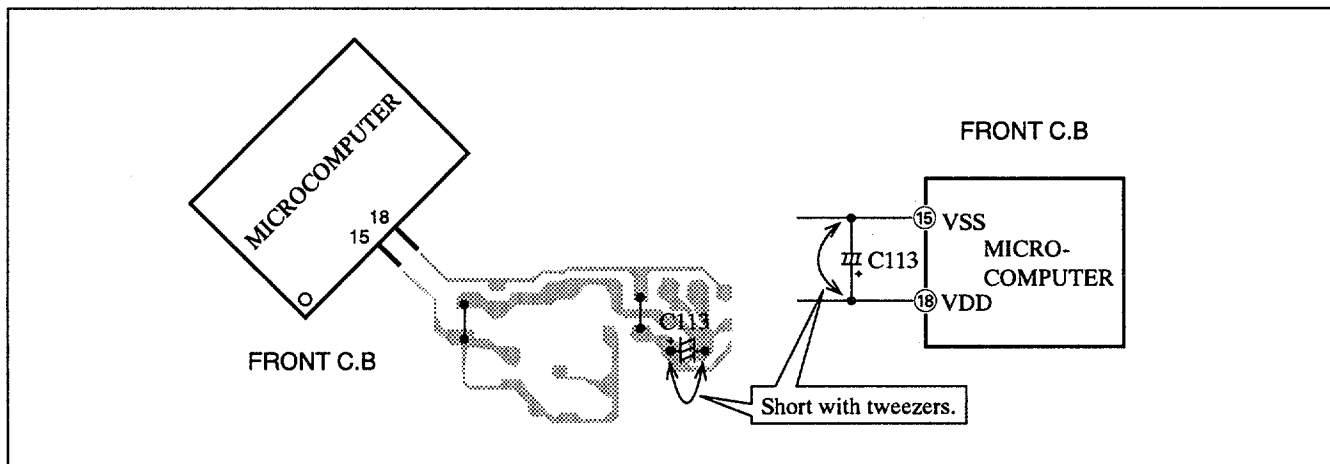


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

SPECIFICATIONS (202 : LH, HE, HR)

<FM Tuner section>		<Cassette deck section>	
Tuning range	87.5 MHz to 108 MHz	Track format	4 tracks, 2 channels stereo
Usable sensitivity(IHF)	13.2 dBf	Frequency response	50 Hz - 10000 Hz
Antenna terminals	75 ohms (unbalanced)	Recording system	AC bias
<MW Tuner section>		Heads	Deck 1 : Recording/Playback head x 1, erase head x 1
Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)	Deck 2 : Playback head x 1	
Usable sensitivity	350 μ V/m	<Compact disc player section>	
Antenna	Loop antenna	Laser	Semiconductor laser (λ =780 nm)
<SW Tuner section> (HE, HR)		D-A converter	1 bit dual
Tuning range	5.900 MHz to 17.900 MHz	Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Antenna	Wire antenna	Harmonic distortion	0.05 % (1 kHz, 0 dB)
<Amplifier section>		Wow and flutter	Unmeasurable
Power output	LH : 15 W + 15 W (6 ohms, THD 10%, 1 kHz) HE,HR : Rated : 12 W + 12 W (6 ohms, THD 1%, 1 kHz) Reference : 15 W + 15 W (6 ohms, THD 10%, 1 kHz)	<Speaker system SX-NS202	
Total harmonic distortion	0.1% (6 W,1 kHz, 6 ohms, DIN AUDIO)	Cabinet type	2 way, bass reflex (magnetic shielded type)
Inputs	VIDEO/AUX : 500 mV MIC : 1.7 mV (10 kohms)	Speakers	Woofer : 120 mm cone type Tweeter : 20 mm ceramic type
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more	Impedance	6 ohms
		Output sound pressure level	87 dB/W/m
		Dimensions (W x H x D)	230 x 324 x 250 mm
		Weight	3.2 kg
		<General>	
		Power requirements	120 V/220 - 230 V/240 V AC switchable, 50/60 Hz
		Power consumption	55 W
		Dimensions of main unit	260 x 324 x 337 mm
		Weight of main unit	4.6 kg

• Design and specifications are subject to change without notice.

SPECIFICATIONS (205 : LH, HE, HR)

<FM Tuner section>		<Cassette deck section>	
Tuning range	87.5 MHz to 108 MHz	Track format	4 tracks, 2 channels stereo
Usable sensitivity(IHF)	13.2 dBf	Frequency response	50 Hz - 10000 Hz
Antenna terminals	75 ohms (unbalanced)	Recording system	AC bias
<MW Tuner section>		Heads	Deck 1 : Recording/Playback head x 1, erase head x 1
Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)	Deck 2 : Playback head x 1	
Usable sensitivity	350 μ V/m	<Compact disc player section>	
Antenna	Loop antenna	Laser	Semiconductor laser (λ =780 nm)
<SW Tuner section> (HE, HR)		D-A converter	1 bit dual
Tuning range	5.900 MHz to 17.900 MHz	Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Antenna	Wire antenna	Harmonic distortion	0.05 % (1 kHz, 0 dB)
<Amplifier section>		Wow and flutter	Unmeasurable
Power output	LH : 30 W + 30 W (6 ohms, THD 10%, 1 kHz) HE,HR : Rated : 25 W + 25 W (6 ohms, THD 1%, 1 kHz) Reference : 30 W + 30 W (6 ohms, THD 10%, 1 kHz)	<Speaker system SX-NS302	
Total harmonic distortion	0.1% (12.5 W,1 kHz, 6 ohms, DIN AUDIO)	Cabinet type	3 way, bass reflex (magnetic shielded type)
Inputs	VIDEO/AUX : 500 mV MIC : 1.7 mV (10 kohms)	Speakers	Woofer : 140 mm cone type Tweeter : 60 mm ceramic type Super Tweeter : 10 mm ceramic type
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more	Impedance	6 ohms
		Output sound pressure level	87 dB/W/m
		Dimensions (W x H x D)	240 x 324 x 250 mm
		Weight	3.3 kg
		<General>	
		Power requirements	120 V/220 - 230 V/240 V AC switchable, 50/60 Hz
		Power consumption	80 W
		Dimensions of main unit	260 x 324 x 337 mm
		Weight of main unit	5.9 kg

• Design and specifications are subject to change without notice.

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

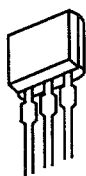
REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C220	87-010-544-080		CAP, ELECT 0.1-50V
	88-NF9-659-010	IC,M38B57MCH-P202FP		C229	87-018-123-080		CAP, CER 220P-50V
	87-A20-951-010	IC,TSOP1838RF1		C230	87-018-123-080		CAP, CER 220P-50V
	87-017-889-010	IC,NJM4558LD		C235	87-018-209-080		CAP, CER 0.1-50V<5LH,5HR,5HE>
	88-NF9-632-010	IC,M62439SP		C236	87-018-209-080		CAP, CER 0.1-50V<5LH,5HR,5HE>
	88-NF9-656-010	IC,LC72131DZ		C237	87-018-134-080		CAPACITOR,TC-U 0.01-16
	88-NF9-653-010	IC,LA1837NZ		C301	87-018-131-080		CAP, CER 1000P-50V<5LH,5HR,5HE>
				C301	87-018-197-080		CAP, CER 1800P-16V<2LH,2HR,2HE>
				C302	87-018-131-080		CAP, CER 1000P-50V<5LH,5HR,5HE>
				C302	87-018-197-080		CAP, CER 1800P-16V<2LH,2HR,2HE>
TRANSISTOR				C303	87-018-196-080		CAP, CER 1500P-16V
	89-213-702-010	TR,2SB1370E		C304	87-018-196-080		CAP, CER 1500P-16V
	87-026-610-080	TR,KTC3198GR		C307	87-010-263-080		CAP, ELECT 100-10V
	87-A30-198-080	TR,KTC3199GR		C308	87-010-263-080		CAP, ELECT 100-10V
	87-026-609-080	TR,KTA1266GR		C315	87-010-375-080		CAP,E 330-10 SME
	87-A30-197-080	TR,KTA1267GR		C317	87-010-546-080		CAP, ELECT 0.33-50V
	87-026-219-080	TR,DTA144ES (0.3W)		C318	87-010-546-080		CAP, ELECT 0.33-50V
	87-026-372-080	TR,RN1210		C360	87-010-401-080		CAP, ELECT 1-50V
	88-NF9-623-010	TR,2SD2478		C361	87-010-374-080		CAP, ELECT 47-10V
	88-NF9-622-010	TR,2SB1616		C401	87-010-401-080		CAP, ELECT 1-50V
	87-A30-196-080	TR,2SC4115SRS		C402	87-010-401-080		CAP, ELECT 1-50V
	87-A30-091-080	FET,2SJ460		C403	87-018-118-080		CAP,TC-U 82P-50 B
	87-A30-090-080	FET,2SK2541		C404	87-018-118-080		CAP,TC-U 82P-50 B
	87-026-218-080	TR,DTC144ES (0.2W)		C411	87-010-405-080		CAP, ELECT 10-50V
	87-026-269-080	TR,DTA114ES<EXCEPT 2LH,5LH>		C412	87-010-405-080		CAP, ELECT 10-50V
	87-026-214-080	TR,DTA114YS (0.3W)		C452	87-010-382-080		CAP, ELECT 22-25V
	87-A30-164-080	TR,CSC2001K<EXCEPT 2LH,5LH>		C459	87-018-128-080		CAP, CERA-SOL SS 560P
	87-A30-092-080	FET,2SK439E/F<EXCEPT 2LH,5LH>		C461	87-018-126-080		CAP,TC-U 390P-50 B
				C462	87-018-126-080		CAP,TC-U 390P-50 B
				C601	87-018-195-080		CAP, CER 1200P-16V
DIODE				C602	87-018-195-080		CAP, CER 1200P-16V
	87-A40-454-080	DIODE,1N5393 GW<2LH,2HR,2HE>		C611	87-010-545-080		CAP, ELECT 0.22-50V
	87-A40-393-090	DIODE,1N5402GW F20<5LH,5HR,5HE>		C612	87-010-545-080		CAP, ELECT 0.22-50V
	87-A40-336-080	ZENER,MTZJ27D T-72		C613	87-010-545-080		CAP, ELECT 0.22-50V
	87-A40-470-080	DIODE,1SS254		C614	87-010-545-080		CAP, ELECT 0.22-50V
	87-A40-308-080	ZENER,DZ10M		C615	87-018-104-080		CAP,TC-U 10P-50 SL
	87-070-274-080	DIODE,1N4003 SEM		C616	87-010-260-080		CAP, ELECT 47-25V<2LH,2HR,2HE>
	87-A40-304-080	ZENER,DZ6.2M		C616	87-010-408-080		CAP, ELECT 47-50V<5LH,5HR,5HE>
	87-A40-292-080	ZENER,DZ2.7L		C617	87-010-260-080		CAP, ELECT 47-25V<2LH,2HR,2HE>
	87-A40-302-080	ZENER,DZ5.6M		C617	87-010-408-080		CAP, ELECT 47-50V<5LH,5HR,5HE>
MAIN C.B				C701	87-010-404-080		CAP, ELECT 4.7-50V
	C101	87-016-495-090	CAP,E 3300-25 SMG<2LH,2HR,2HE>	C702	87-018-134-080		CAPACITOR,TC-U 0.01-16
	C101	87-A10-520-090	CAP,E 3300-35 M SMG<5LH,5HR,5HE>	C703	87-018-134-080		CAPACITOR,TC-U 0.01-16
	C104	87-A10-011-090	CAP,E 2200-25 SMG<2LH,2HR,2HE>	C704	87-018-131-080		CAP, CER 1000P-50V
	C104	87-016-051-090	CAP,E 2200-35 SMG<5LH,5HR,5HE>	C705	87-018-131-080		CAP, CER 1000P-50V
	C105	87-018-127-080	CAP, CER 470P-50V	C706	87-018-131-080		CAP, CER 1000P-50V
	C106	87-010-260-080	CAP, ELECT 47-25V	C707	87-010-112-080		CAP, ELECT 100-16V
	C107	87-010-384-080	CAP, ELECT 100-25	C709	87-010-248-080		CAP, ELECT 220-10V
	C108	87-010-381-080	CAP, ELECT 330-16V	C710	87-010-112-080		CAP, ELECT 100-16V
	C111	87-010-247-080	CAP, ELECT 100-50V	C712	87-018-149-080		CAP,TC-U 15P-50 CH
	C112	87-010-263-080	CAP, ELECT 100-10V	C713	87-018-149-080		CAP,TC-U 15P-50 CH
	C113	87-010-403-080	CAP, ELECT 3.3-50V	C714	87-010-112-080		CAP, ELECT 100-16V
	C114	87-010-374-080	CAP, ELECT 47-10V	C715	87-018-119-080		CAP, CER 100P-50V
	C122	87-010-384-080	CAP, ELECT 100-25V<2LH,2HR,2HE>	C746	87-018-134-080		CAPACITOR,TC-U 0.01-16
	C122	87-010-260-080	CAP, ELECT 47-25V<5LH,5HR,5HE>	C753	87-010-408-080		CAP, ELECT 47-50V
	C123	87-010-384-080	CAP, ELECT 100-25V<2LH,2HR,2HE>	C756	87-018-134-080		CAPACITOR,TC-U 0.016-16
	C123	87-010-260-080	CAP, ELECT 47-25V<5LH,5HR,5HE>	C757	87-018-134-080		CAPACITOR,TC-U 0.01-16
	C207	87-010-544-080	CAP, ELECT 0.1-50V	C758	87-010-112-080		CAP, ELECT 100-16V
	C208	87-010-544-080	CAP, ELECT 0.1-50V	C759	87-018-134-080		CAPACITOR,TC-U 0.016-16<2LH,5LH>
	C209	87-018-133-080	CAPACITOR,CER 4700P-16V	C761	87-010-404-080		CAP, ELECT 4.7-50V
	C210	87-018-133-080	CAPACITOR,CER 4700P-16V	C762	87-010-400-080		CAP, ELECT 0.47-50V
	C211	87-010-402-080	CAP, ELECT 2.2-50V<2LH,5LH>	C763	87-010-401-080		CAP, ELECT 1-50V
	C212	87-010-402-080	CAP, ELECT 2.2-50V	C764	87-010-401-080		CAP, ELECT 1-50V
	C213	87-010-260-080	CAP, ELECT 47-25V<2LH,2HR,2HE>	C765	87-018-115-080		CAP, CER 47P-50V
	C213	87-A10-899-080	CAP,E 47-25 M BP SME<5LH,5HR,5HE>	C766	87-010-407-080		CAP, ELECT 33-50V
	C214	87-010-260-080	CAP, ELECT 47-25V<2LH,2HR,2HE>	C768	87-018-208-080		CAP 0.047-50F
	C214	87-A10-899-080	CAP,E 47-25 M BP SME<5LH,5HR,5HE>	C769	87-010-403-080		CAP, ELECT 3.3-50V
	C219	87-010-544-080	CAP, ELECT 0.1-50V	C770	87-018-134-080		CAPACITOR,TC-U 0.01-16
				C771	87-010-406-080		CAP, ELECT 22-50
				C773	87-018-131-080		CAP, CER 1000P-50V

* NOTE : PLEASE READ 2LH=202LH, 2HE=202HE, 2HR=202HR, 5LH=205LH, 5HE=205HE, 5HR=205HR

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C774	87-010-405-080		CAP, ELECT 10-50V	C208	87-010-405-080		CAP, ELECT 10-50V
C775	88-266-850-810		CAP,SC 0.047-25 X K	C210	87-010-263-040		CAP,E 100-10
C783	87-018-199-080		CAP, CER 3300P	C211	87-010-248-040		CAP,E 220-10 SME
C784	87-018-199-080		CAP, CER 3300P	C212	87-018-205-080		CAP, CERA-SOL 0.022
C785	87-010-405-080		CAP, ELECT 10-50V	C213	87-010-401-040		CAP,E 1-50 SME
C786	87-010-405-080		CAP, ELECT 10-50V	C214	87-018-134-080		CAPACITOR,TC-U 0.01-16
C787	87-018-196-080		CAP,CER 1500P-16V<EXCEPT 2LH,5LH>	C216	87-018-205-080		CAP, CERA-SOL 0.022
C787	87-018-132-080		CAP, CER 2200P-16V<2LH,5LH>	C218	87-018-205-080		CAP, CERA-SOL 0.022
C788	87-018-196-080		CAP,CER 1500P-16V<EXCEPT 2LH,5LH>	C219	87-018-205-080		CAP, CERA-SOL 0.022
C788	87-018-132-080		CAP, CER 2200P-16V<2LH,5LH>	C220	87-018-209-080		CAP, CER 0.1-50V<5HR,5HE>
C789	87-010-403-080		CAP, ELECT 3.3-50V	C220	87-018-205-080		CAP, CERA-SOL 0.022<2LH,2HR,2HE>
C790	87-010-403-080		CAP, ELECT 3.3-50V	C221	87-018-115-080		CAP, CER 47P-50V
C803	87-018-134-080		CAPACITOR,TC-U 0.01-16	C224	87-018-205-080		CAP, CERA-SOL 0.022
C804	87-018-134-080		CAPACITOR,TC-U 0.01-16	C225	87-018-149-080		CAP,TC-U 15P-50 CH
C808	87-018-134-080		CAPACITOR,TC-U 0.01-16	C226	87-018-113-080		CAP, CER 33P-50V
C813	87-018-131-080		CAP, CER 1000P-50V	C231	87-010-384-040		CAP,E 100-25 SME
C931	87-010-263-080		CAP, E 100-10V<EXCEPT 2LH,5LH>	C241	87-018-117-080		CAP,TC-U 68P-50 SL
C932	87-010-400-080		CAP, E 0.47-50V<EXCEPT 2LH,5LH>	C242	87-018-117-080		CAP,TC-U 68P-50 SL
C934	87-018-134-080		CAP,TC-U 0.01-16<EXCEPT 2LH,5LH>	C243	87-018-117-080		CAP,TC-U 68P-50 SL
C935	87-018-134-080		CAP,TC-U 0.01-16<EXCEPT 2LH,5LH>	C244	87-018-117-080		CAP,TC-U 68P-50 SL
C936	87-018-134-080		CAP,TC-U 0.01-16<EXCEPT 2LH,5LH>	C245	87-018-117-080		CAP,TC-U 68P-50 SL
C937	87-018-134-080		CAP,TC-U 0.01-16<EXCEPT 2LH,5LH>	C246	87-018-118-080		CAP,TC-U 82P-50 B
C938	87-018-134-080		CAP,TC-U 0.01-16<EXCEPT 2LH,5LH>	C247	87-018-134-080		CAP,TC-U 0.01-16
C939	87-014-073-080		CAP,PP 4700P-100J<EXCEPT 2LH,5LH>	C251	87-018-205-080		CAP, CERA-SOL 0.022
C940	87-014-051-080		CAP (PP), 560P<EXCEPT 2LH,5LH>	C402	87-010-545-040		CAP,E 0.22-50 SME<EXCEPT 2LH,5LH>
C944	87-018-104-080		CAP,TC-U 10P-50 SL<2LH,5LH>	C403	87-018-118-080		CAP,TC-U 82P-50 B<EXCEPT 2LH,5LH>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A	C404	87-010-544-040		CAP,E 0.1-50 SME<EXCEPT 2LH,5LH>
CON351	88-NF9-634-010		CONN ASSY,8P RPB	C406	87-018-130-080		CAP,TC-U 820P-50B<EXCEPT 2LH,5LH>
CON301	87-A60-620-010		CONN,3P V 2MM JMT	C409	87-010-754-080		CAP,E220-10 SRA7L<EXCEPT 2LH,5LH>
CON351	87-A60-625-010		CONN,8P V 2MM JMT	C410	87-010-405-040		CAP,E 10-50<EXCEPT 2LH,5LH>
CON601	88-NF9-657-010		CONN,30P H BLK TYK-B(X)	C412	87-010-401-040		CAP,E 1-50 SME<EXCEPT 2LH,5LH>
CON602	87-099-194-010		CONN,6P 6216V	CN103	88-NF9-635-010		CONN ASSY,10P,MECHA<2LH,2HR,2HE>
FC602	88-906-251-110		FF-CABLE, 6P 1.25	CN103	88-NF9-636-010		CONN ASSY,10P,MECHA R<5LH,5HR,5HE>
FEE801	A8-8ZA-190-030		8ZA-1 FEUNM<2HR,5HR>	CON101	88-NF9-658-010		CONN,30P BLK TYK-B(P)
FFE801	A8-8ZA-193-070		8ZA-1 YFEUNC<EXCEPT 2HR,5HR>	CON102	87-099-015-010		CONN,13P 6216V
J201	88-NF9-620-010		JACK,DIA6.3 BLK ST W/SW KM16AT	CON103	87-A60-674-010		CONN,10P H 2MM JMT
J202	87-A60-238-010		TERMINAL,SP 4P (MSC)	FC102	88-913-221-110		FF-CABLE, 13P 1.25 220MM
J601	87-A60-425-010		JACK,PIN 2P YKC21-3838	FL301	88-NF9-630-010		FL,10-BT-207GK
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	S201	87-A90-535-010		SW,RTYR EC16B24304
J931	81-754-629-010		CONNECTOR,XH2P-UL<EXCEPT 2LH,5LH>	S301	87-A90-164-080		SW,TACT SKQAB(N)
L201	87-003-383-010		COIL,1UH-S	S302	87-A90-164-080		SW,TACT SKQAB(N)
L202	87-003-383-010		COIL,1UH-S	S303	87-A90-164-080		SW,TACT SKQAB(N)
L451	87-007-342-010		COIL,OSC 85K BIAS	S304	87-A90-164-080		SW,TACT SKQAB(N)
L701	87-005-847-080		COIL,2.2UH(CECS)	S305	87-A90-164-080		SW,TACT SKQAB(N)
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	S306	87-A90-164-080		SW,TACT SKQAB(N)
L772	87-A90-052-010		FLTR,CFMT450A-TOK<EXCEPT 2LH,5LH>	S307	87-A90-164-080		SW,TACT SKQAB(N)
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)<2LH,5LH>	S308	87-A90-164-080		SW,TACT SKQAB(N)
L801	87-005-847-080		COIL,2.2UH(CECS)	S309	87-A90-164-080		SW,TACT SKQAB(N)
L933	87-A50-159-010		COIL,10MH K C2B<EXCEPT 2LH,5LH>	S310	87-A90-164-080		SW,TACT SKQAB(N)
L934	87-005-372-080		COIL S 1MHM<EXCEPT 2LH,5LH>	S311	87-A90-164-080		SW,TACT SKQAB(N)
L941	87-A50-022-010		COIL,ANT SW(COI)<EXCEPT 2LH,5LH>	S312	87-A90-164-080		SW,TACT SKQAB(N)
L942	87-A50-173-010		COIL,OSC SW-N-COI<EXCEPT 2LH,5LH>	S313	87-A90-164-080		SW,TACT SKQAB(N)
L981	88-NF9-651-010		COI,AM PACK 4E(TOK)<2LH,5LH>	S314	87-A90-164-080		SW,TACT SKQAB(N)
L981	88-NF8-625-010		COI,AM PACK3N-TOK<EXCEPT 2LH,5LH>	S315	87-A90-164-080		SW,TACT SKQAB(N)
R223	87-A00-258-080		RES,M/F 0.22-1W J<5LH,5HR,5HE>	S316	87-A90-164-080		SW,TACT SKQAB(N)
R224	87-A00-258-080		RES,M/F 0.22-1W J<5LH,5HR,5HE>	S317	87-A90-164-080		SW,TACT SKQAB(N)
R249	87-A00-258-080		RES,M/F 0.22-1W J	S318	87-A90-164-080		SW,TACT SKQAB(N)
R250	87-A00-258-080		RES,M/F 0.22-1W J	S320	87-A90-164-080		SW,TACT SKQAB(N)
TC931	87-011-220-080		TRIMMER CAP20PVT<EXCEPT 2LH,5LH>	SFR201	87-A90-556-080		SFR,2.2K H HOKU
TC932	87-011-221-080		CAP,TRIMMER 30P<EXCEPT 2LH,5LH>	VR401	86-NFA-607-010		VR,RTYR 10K15AX1 1V
W101	83-NE2-618-110		F-CABEL,5P-2.5				XV0121PVN<EXCEPT 2LH,5LH>
WH102	87-A90-460-010		HLD, WIRE 2.5-7P	X201	87-A70-075-080		VIB,CER 4.19MHZ CRHF
X701	88-NF9-654-010		VIB,XTAL 4.500 MHZ CSA-309				
X751	87-030-354-010		VIB,CER450KHZ BFUC<EXCEPT 2LH,5LH>				
				AC2 C.B			
FRONT C.B				WH101	87-A90-460-010		HLD, WIRE 2.5-7P
C201	87-010-404-040		CAP,E 4.7-50 SME	△PR001	87-026-681-080		PROTECTOR,5A 60V 491<5LH,5HR,5HE>
C202	87-015-698-040		CAP,E 4.7-50 7L	△PR002	87-026-681-080		PROTECTOR,5A 60V 491<5LH,5HR,5HE>
C204	87-016-513-080		CAP,E 47-35 7L				
C205	87-018-205-080		CAP, CERA-SOL 0.022				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
ACI C.B			
△ F101	87-035-219-010		FUSE, 500MA 'T' <2LH, 2HR, 2HE>
△ F101	87-035-224-010		FUSE, 1.6AT <5LH, 5HR, 5HE>
△ FC101	87-033-147-010		FUSE CLAMP
△ FC102	87-033-147-010		FUSE CLAMP
△ PT101	88-NF9-610-010		PT, 8NF-9 HI-HR <5HR, 5HE>
△ PT101	88-NF9-611-010		PT, 8NF-9 HI-LH <5LH>
△ PT101	88-NF9-606-010		PT, 8NF-9 HE <2HR, 2HE>
△ PT101	88-NF9-609-010		PT, 8NF-9 LH <2LH>
△ SW101	87-A90-165-010		SW, SL 1-2-3 SWS2301
△ T101	87-A60-317-010		TERMINAL, 1P MSC
△ T102	87-A60-317-010		TERMINAL, 1P MSC
JACK C.B			
J401	87-009-217-010		JACK, DIA3.5 <EXCEPT 2LH, 5LH>
HEAD FLEX C.B			
PH	S6-201-070-260		P.HEAD P-5044BD-24F
SW9	S6-403-020-040		SLIDE SWITCH R663167

TRANSISTOR ILLUSTRATION



B C E

2SC4115S



E C B

KTA1266
KTC3198
CSC2001



B C E

2SB1370



E C B

DTA144
DTC144ES
DTA114YS
RN1210



S D G

2SJ460



B C E

2SB1616
2SD2478



E C B

KTA1267
KTC3199



S D G

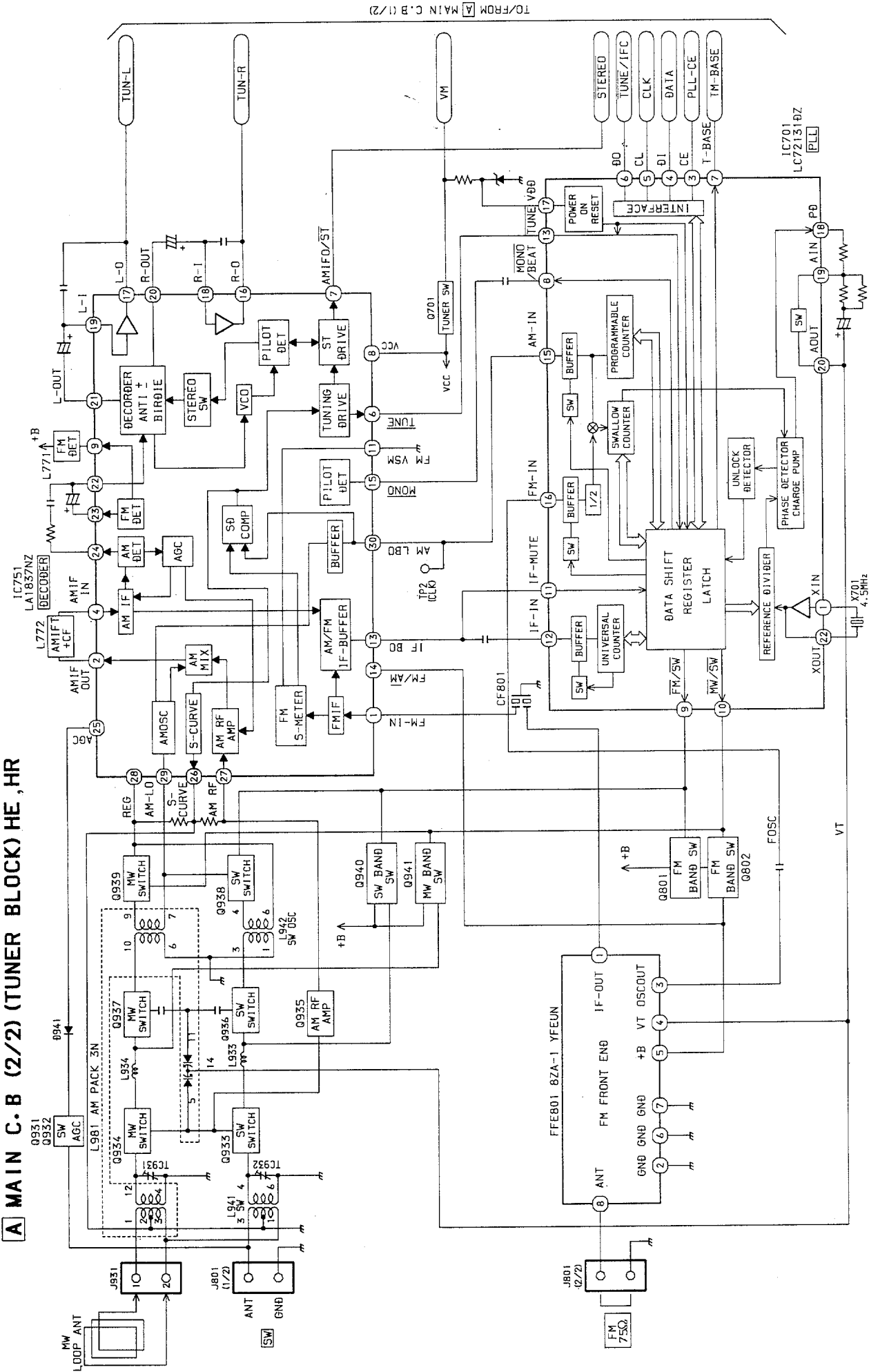
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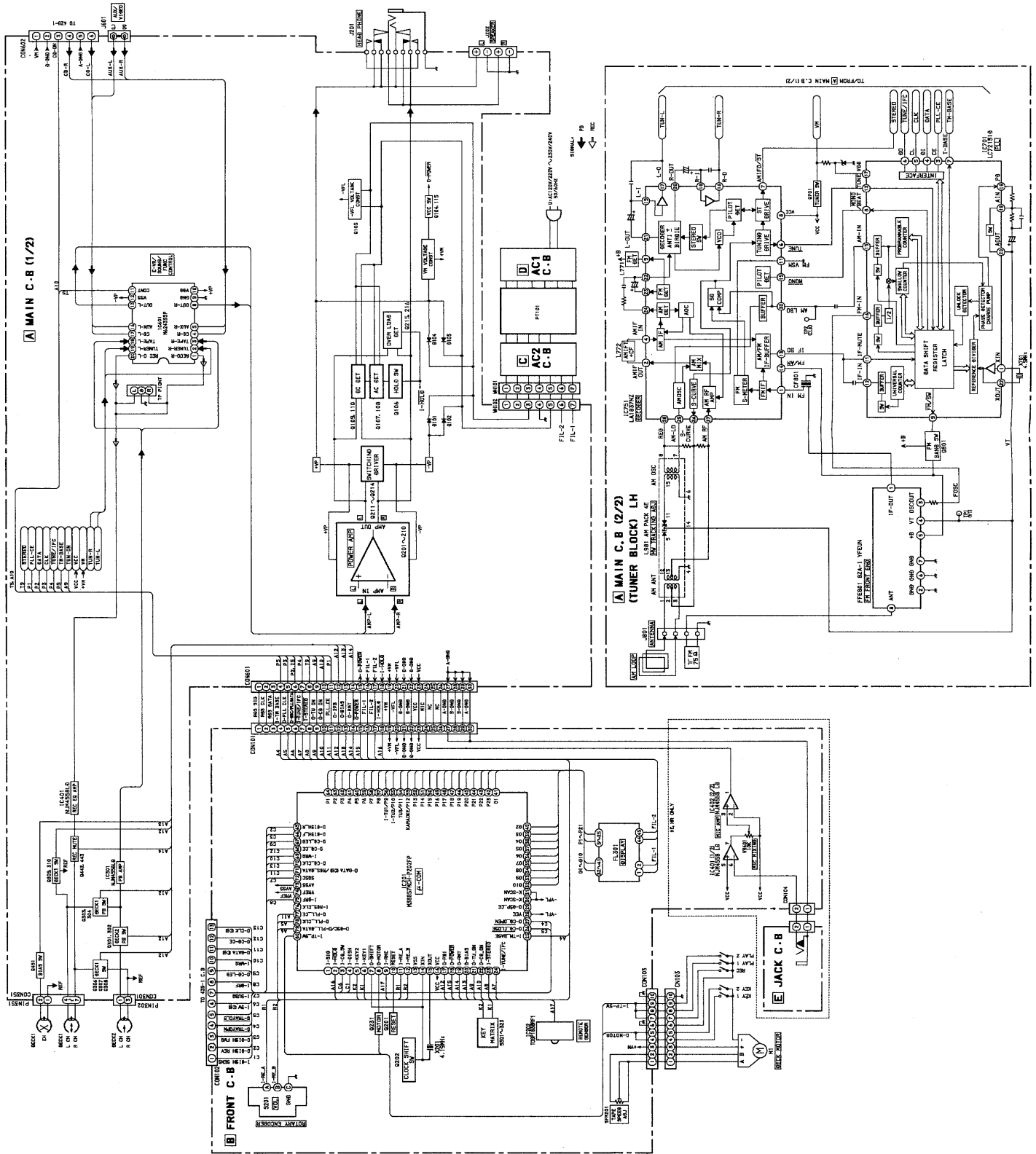
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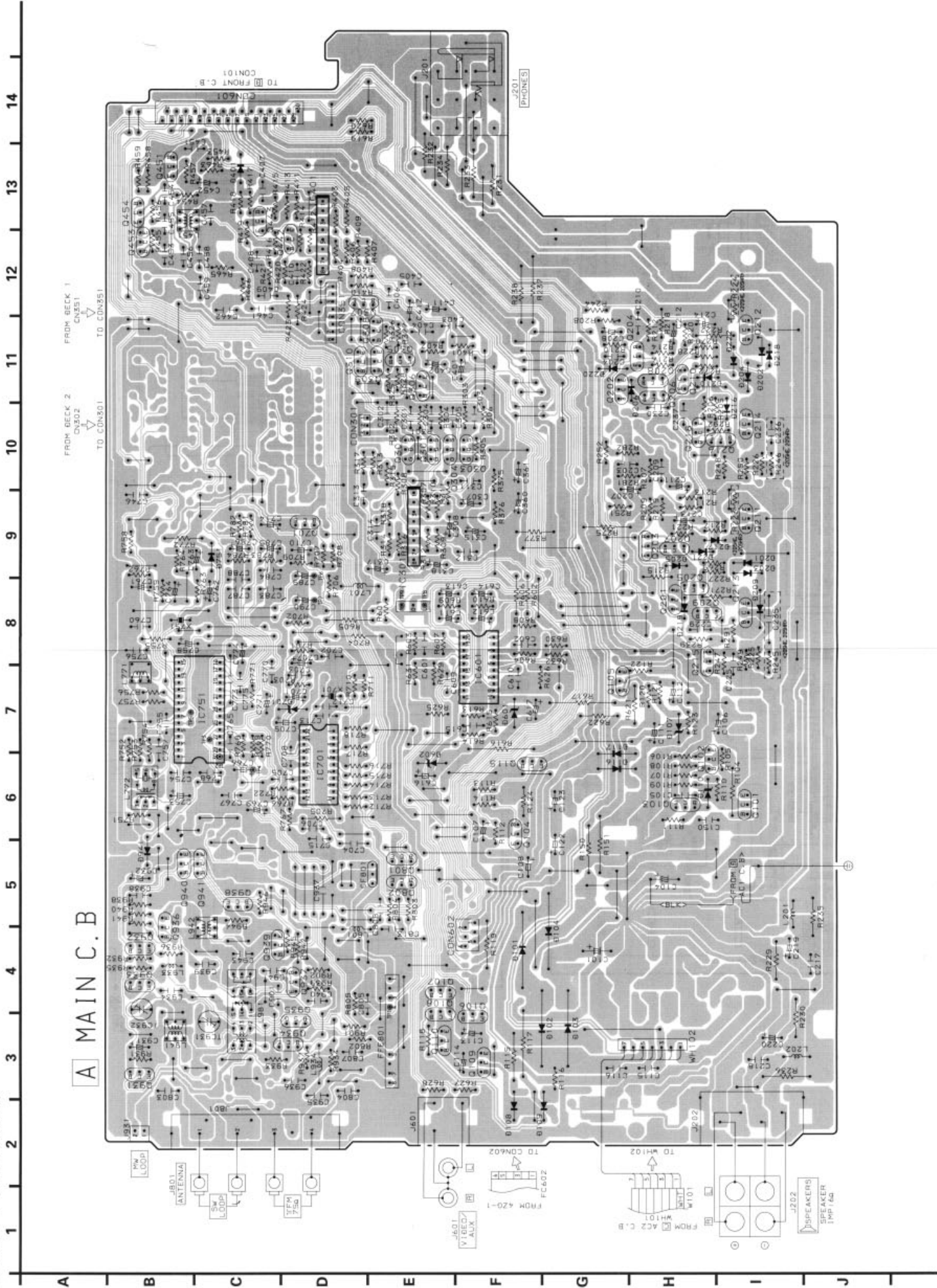
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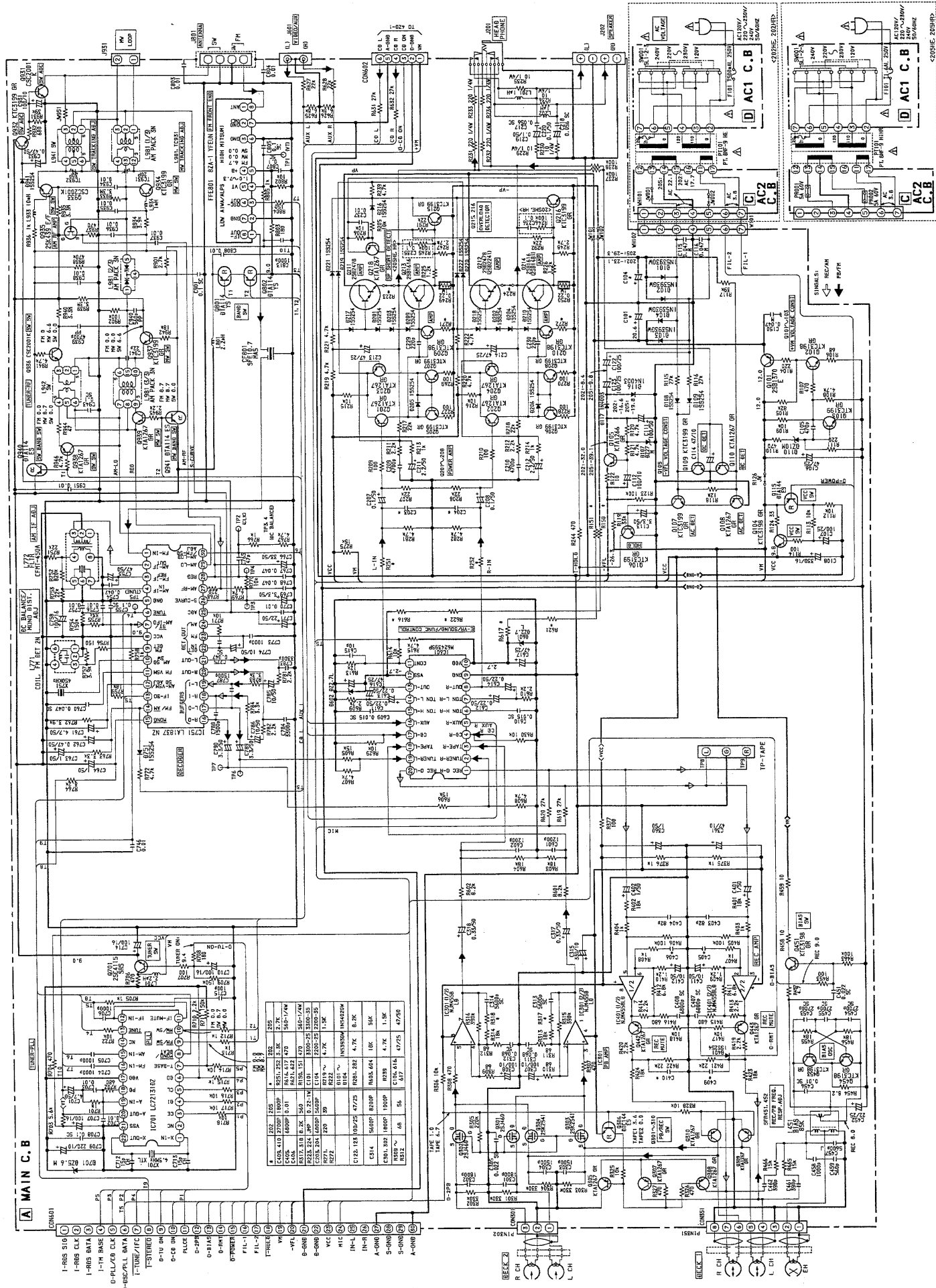
A MAIN C.B (2/2) (TUNER BLOCK) HE, HR

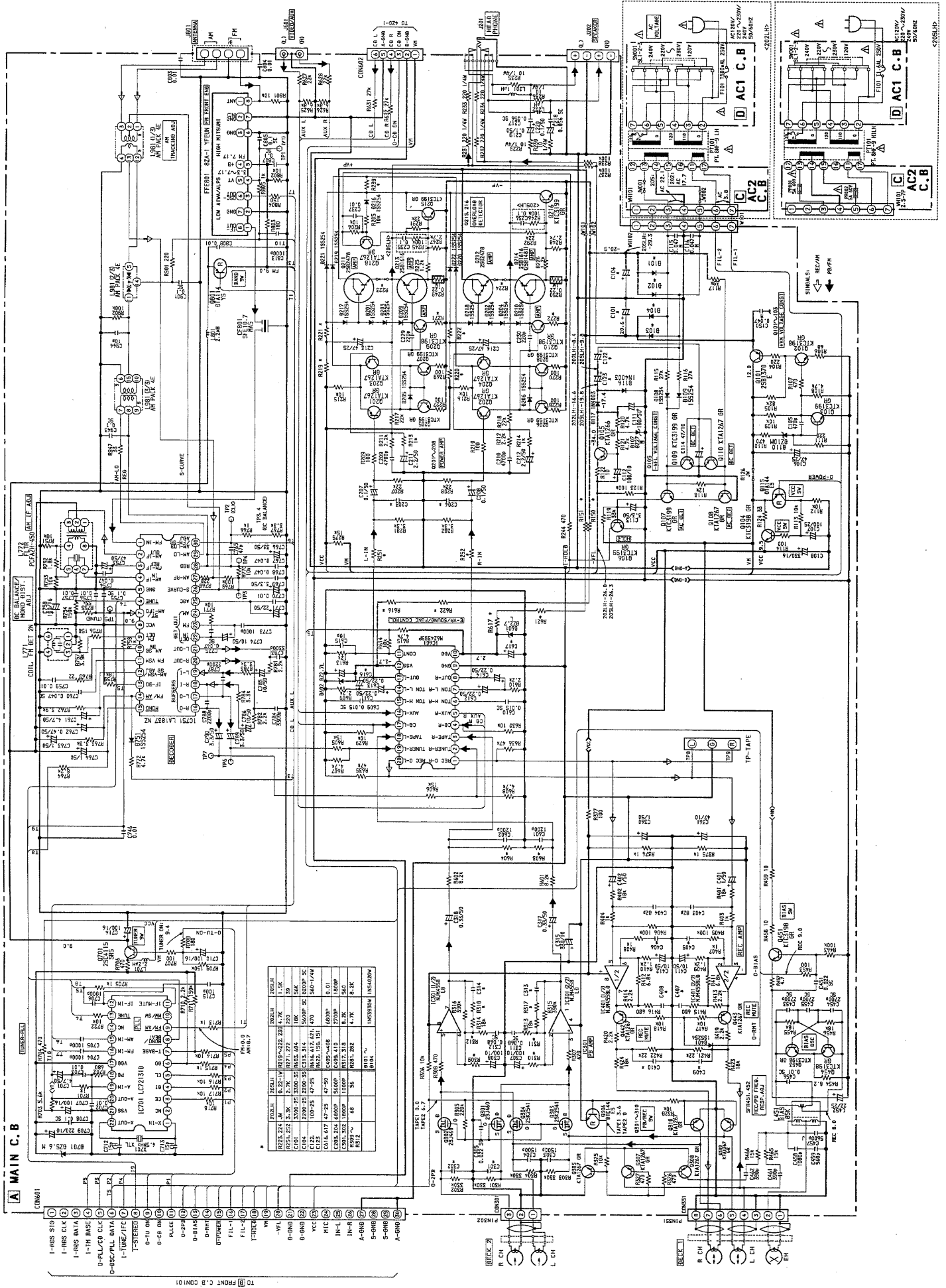


BLOCK DIAGRAM - 2 (MAIN / FRONT)









1

2

3

4

5

6

7

8

9

10

11

12

13

14

B FRONT C.B

TO 470-1

FC102

S201

VOLUME

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

S311

[C]

S304

[VIDEO/AUX]

S306

[TUNER/BAND]

S317

[TAPE]

S309

[T-BA95]

S303

[ROCK]

S305

[POP]

S307

[CLASSIC]

S316

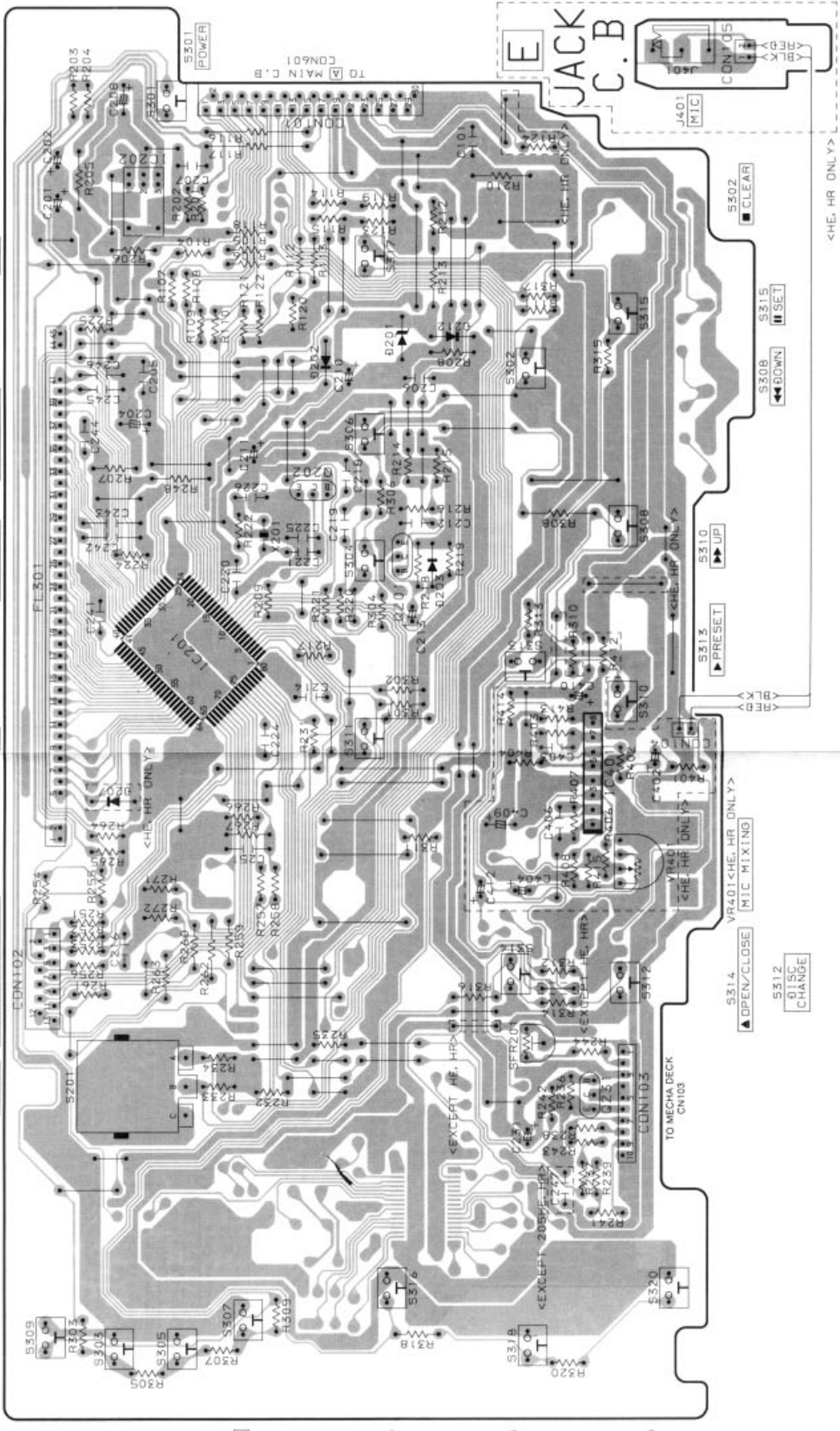
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S318

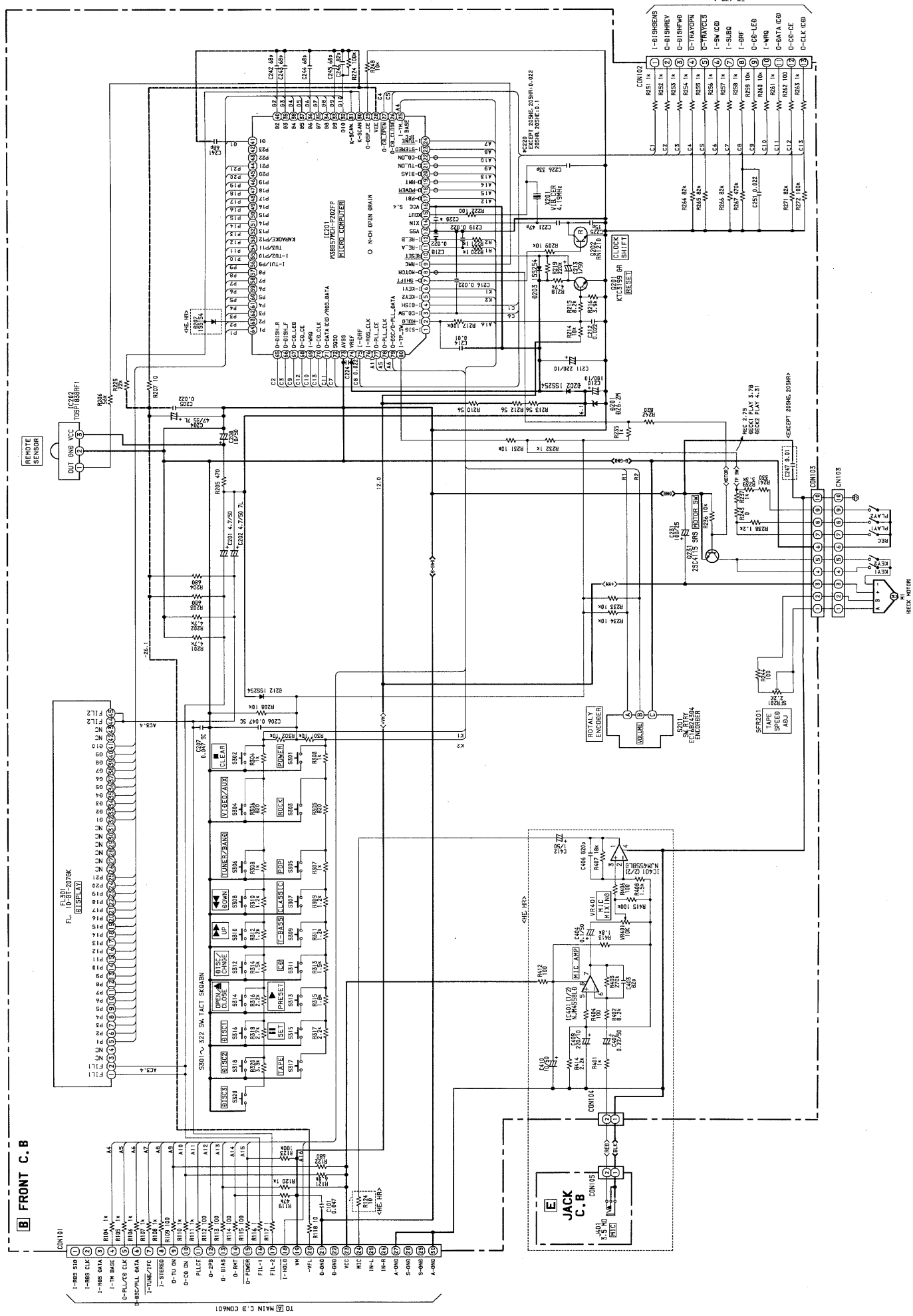
[DIRECT PLAY]

S320

[]

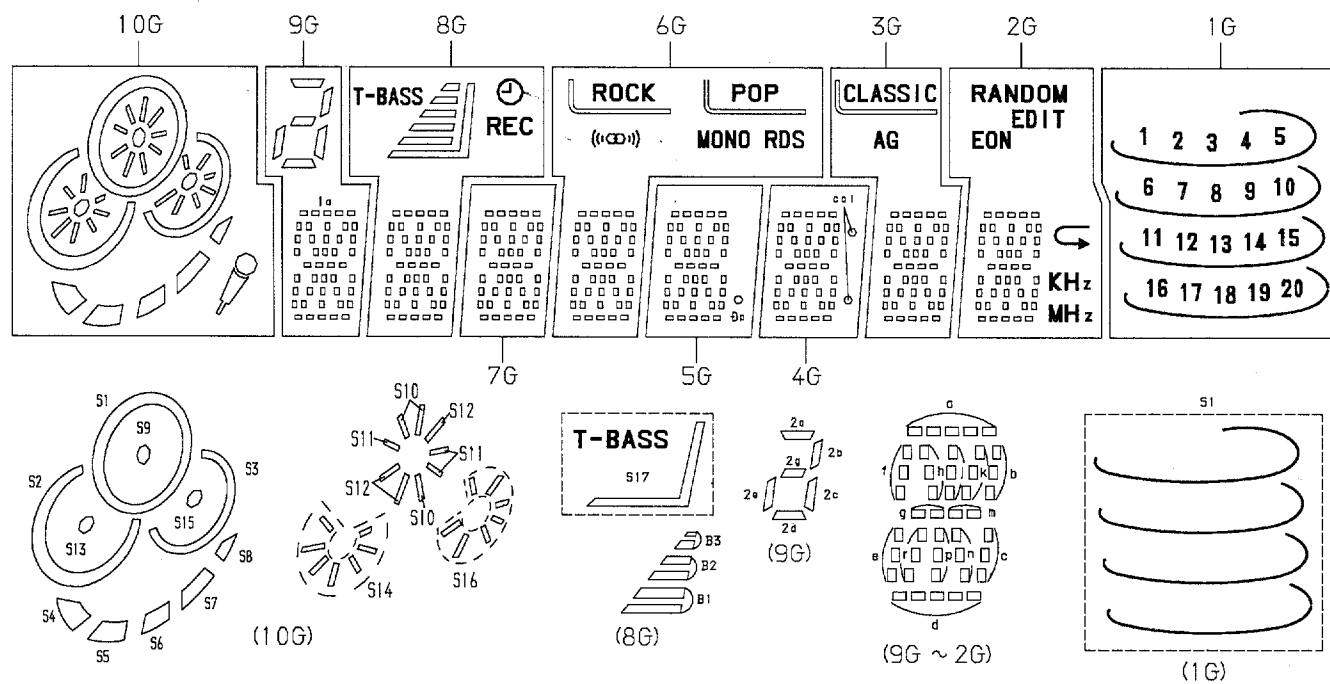


SCHEMATIC DIAGRAM - 3 (FRONT)



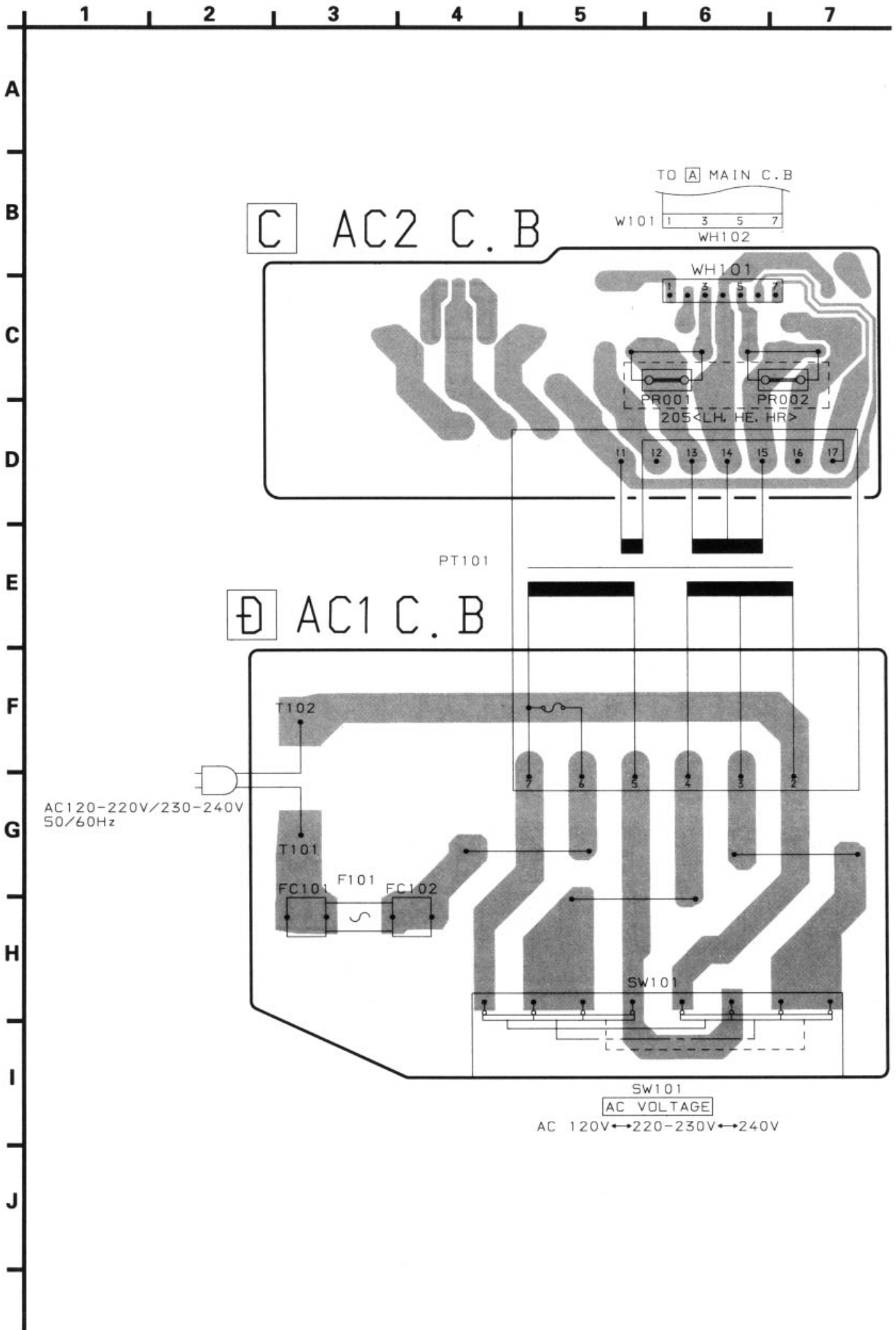
FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

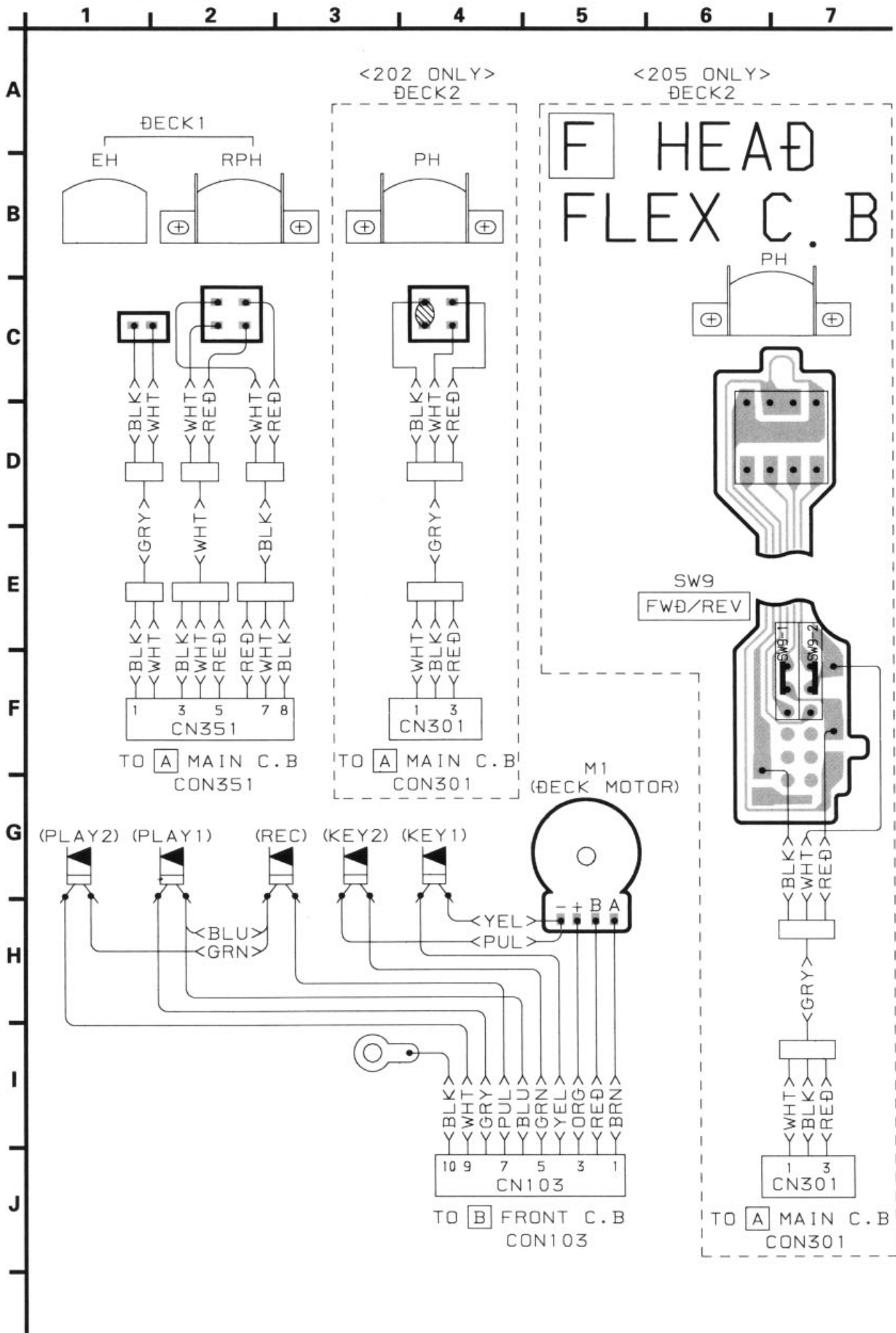


ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S6	1 d	d	d	d	d	d	d	d	20
P2	S7	1 n	n	n	n	n	n	n	n	19
P3	S8	1 p	p	p	p	p	p	p	p	18
P4	S14	1 r	r	r	r	r	r	r	r	17
P5	S13	1 e	e	e	e	e	e	e	e	16
P6	S2	1 c	c	c	c	c	c	c	c	15
P7	S16	1 g	g	g	g	g	g	g	g	14
P8	S15	1 m	m	m	m	m	m	m	m	13
P9	S3	1 f	f	f	f	f	f	f	f	12
P10	S12	1 b	b	b	b	b	b	b	b	11
P11	S11	1 k	k	k	k	k	k	k	k	10
P12	S10	1 j	j	j	j	j	j	j	j	9
P13	S9	1 h	h	h	h	h	h	h	h	8
P14	S1	1 a	a	a	a	a	a	a	a	7
P15	S5	—	REC	—	((∞))	Ep	CO I (DOWN)	—	MHz	6
P16	S4	—		—	MONO	—	CO I (UP)	—	KHz	5
P17		2a, 2g 2d	S17	—	RDS	—	—	AG		4
P18	—	2e	B1	—		—	—		EON	3
P19	—	2c	B2	—		—	—	—	EDIT	2
P20	—	2b	B3	—	ROCK POP	—	—	CLASSIC	RANDOM	1
P21	—	—	—	—	—	—	—	—	—	S1

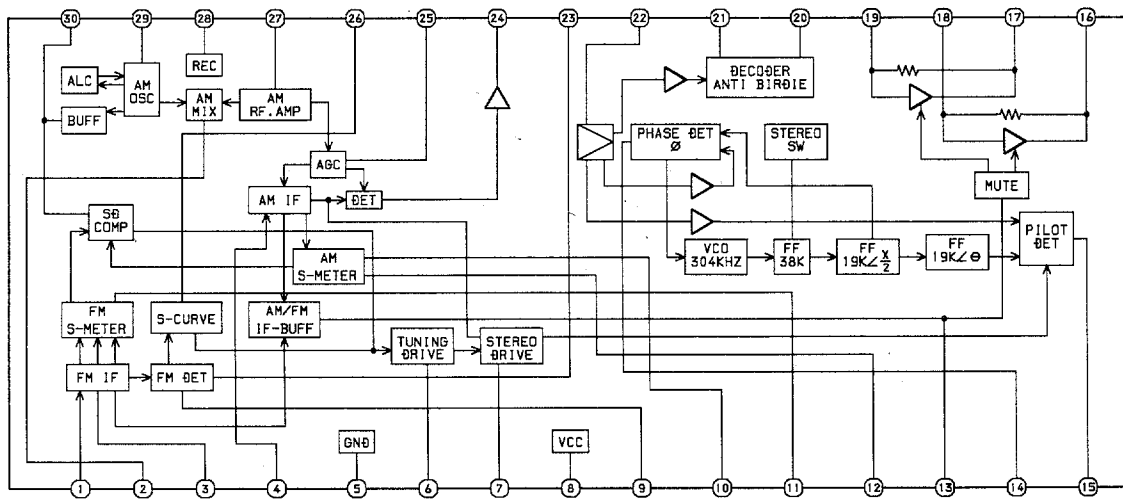


WIRING - 5 (DECK)

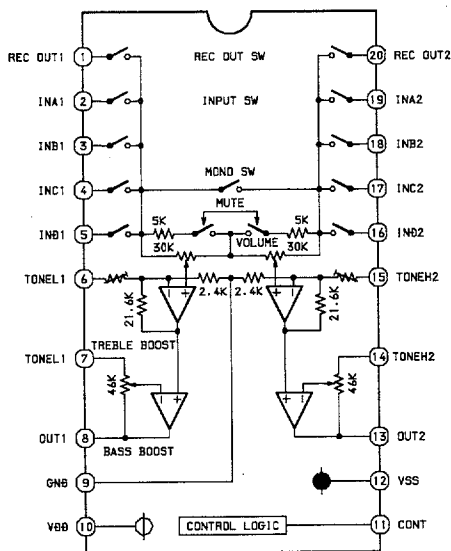


IC BLOCK DIAGRAM – 1

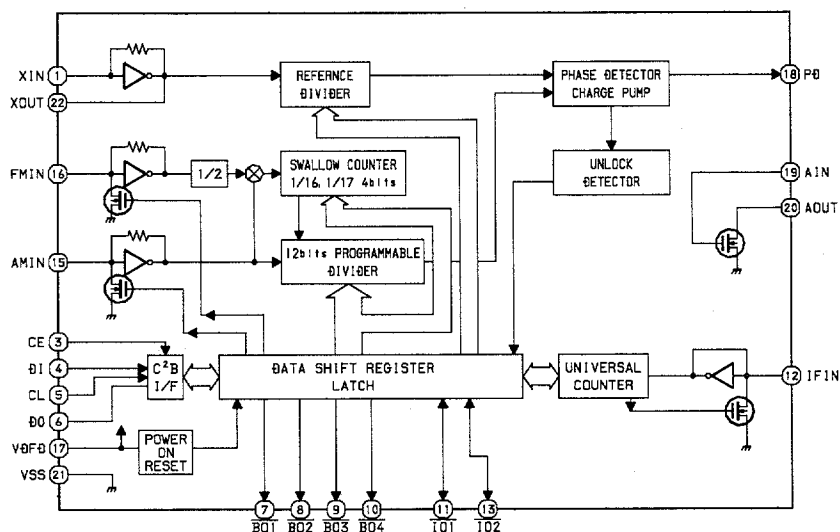
IC, LA1837



IC, M62439SP



IC, LC72131



IC DESCRIPTION

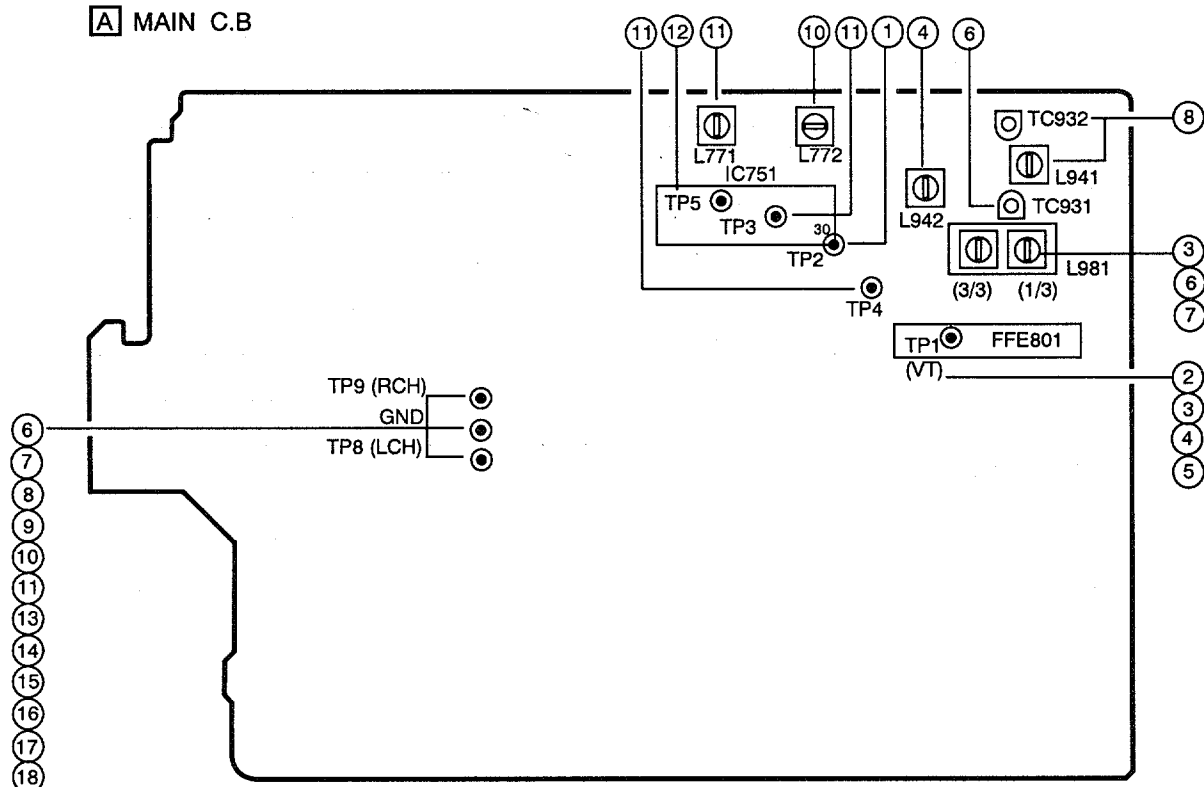
IC, M38B57MCH-P202FP

Pin No.	Pin Name	I/O	Description
1	I-SIG	I	Signal level for RDS A/D input (Not connected).
2	I-HOLD	I	Hold input.
3	I-CD_SW	I	CD mechanical switch input.
4	I-DISH	I	CD turntable photo sensor input.
5	I-KEY2	I	KEY input 1.
6	I-KEY1	I	KEY input 2.
7	O-SHIFT	O	Clock shift output for microcomputer when tuner receiving broadcast.
8	O-MOTOR	O	Cassette deck motor control output.
9	I-RMC	I	System remote control signal input.
10	RESET	I	RESET input.
11	I-RE_A	I	Rotary encoder A input.
12	I-RE_B	I	Rotary encoder B input.
13	VSS	–	Connected to GND.
14	XIN	–	4.19 MHz oscillator circuit.
15	XOUT	–	
16	VCC	–	Power supply.
17	O-PB1	O	Cassette deck output switching.
18	O-POWER	O	Power control output.
19	O-RMT	O	REC MUTE output.
20	O-BIAS	O	Bias output.
21	O-TU_ON	O	Tuner power supply ON/OFF output.
22	O-CD_ON	O	CD power supply ON/OFF output.
23	I-STEREO	I	Tuner stereo detected input.
24	I-TUNE/IFC	I	Tuner signal input (Active Low) / Tune IF count serial data input.
25	I-TM_BASE	I	Reference clock input for timer watch.
26	O-CD_CLOSE	O	CD tray close data output.
27	O-CD_OPEN	O	CD tray open data output.
28	VEE	–	Power supply input for FL display.
29	O-DSP_CE	O	DSP chip enable output.
30	K-SCAN	O	Initial scan output.
31	K-SCAN	O	Initial scan output.
32~41	G10~G1	O	FL grid output G1~G10.
42~43	P23~P24	O	FL segment output (Not connected).
44~62	P21~P3	O	FL segment output.
63	P2	I/O	FL segment output/TU2 input to diode.
64	P1	O	FL segment output.
65	O-DISH_R	O	CD turntable reverse rotation output.
66	O-DISH_F	O	CD turntable forward rotation output.
67	O-CD_LED	O	CD flash window output.
68	O-CD_CE	O	CD IC control output.
69	I-WRQ	I	CD IC control output.
70	O-CD_CLK	O	CD clock output.

Pin No.	Pin Name	I/O	Description
71	O-DATA(CD)/ RDS_DATA	O	CD data output.
72	SQSO	O	CD SUBQ data output.
73	AVSS	–	Connected to GND.
74	VREF	–	Power supply.
75	I-DRF	I	CD RF level detection input.
76	I-RDS-CLK	I	RDS clock input (Not connected).
77	O-PLL_CE	O	PLL IC chip enable output.
78	O-PLL_CLK	O	PLL IC clock output.
79	O-DSC/O-PLL DATA	O	Function IC control output / PLL data output.
80	I-TP-SW	I	Cassette deck.

ADJUSTMENT <TUNER / DECK>

A MAIN C.B



< TUNER SECTION >

1. Clock Frequency Check

Settings : • Test point : TP2

Method : Set to MW 1602kHz (HE,HR) / AM 1710kHz (LH) and check that the test point is 2052kHz $\pm$ 45Hz (HE,HR) / 2160 kHz $\pm$ 45Hz (LH).

2. MW VT Check <LH>

Settings : • Test point : TP1 (VT)

Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).

3. MW VT Adjustment <HE,HR>

Settings : • Test point : TP1 (VT)

• Adjustment location : L981 (3/3)

Method : Set to MW 1710kHz and adjust L981 (3/3) so that the test point becomes 7.5V $\pm$ 0.05V. Then check that the test point is more than 0.3V (530kHz).

4. SW VT Adjustment <HE,HR>

Settings : • Test point : TP1 (VT)

• Adjustment location : L942

Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 6.0V $\pm$ 0.05V. Then check that the test point is more than 0.3V (5.9MHz).

5. FM VT Check

Settings : • Test point : TP1 (VT)

Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

6. MW Tracking Adjustment <HE,HR>

Settings : • Test point : TP8(Lch), TP9(Rch)

• Adjustment location :

L981 (1/3) 603kHz

TC931 1404kHz

Method : Set up TC931 to center before adjustment. The level at 603kHz is adjust to maximum by L981(1/3). Then the level at 1404kHz is adjust to maximum by TC931.

7. MW Tracking Adjustment <LH>

Settings : • Test point : TP8(Lch), TP9(Rch)

• Adjustment location :

L981(1/3) 999kHz

Method : Set to AM 999kHz and adjust L981(1/3) to MAX.

8. SW Tracking Adjustment <HE,HR>

Settings : • Test point : TP8(Lch), TP9(Rch)

• Adjustment location :

L941 5.9MHz

TC932 17.9MHz

Method : Set up TC932 to center before adjustment. The level at 5.9MHz is adjust to maximum by L941. Then the level at 17.9 MHz is adjust to maximum by TC932.

9. FM Tracking Check

Settings : • Test point : TP8(Lch), TP9(Rch)

Method : Set to FM 98.0MHz and check that the test point is less than 9dB.

10. AM(MW) IF Adjustment

Settings : • Test point : TP8(Lch), TP9(Rch)

• Adjustment location :

L772 450kHz

11. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4 (DC Balance)

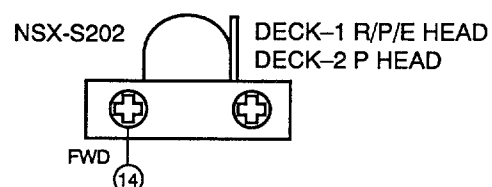
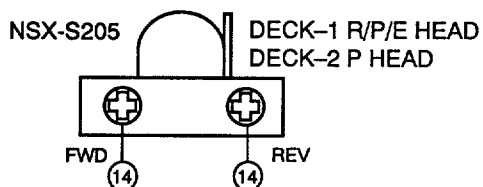
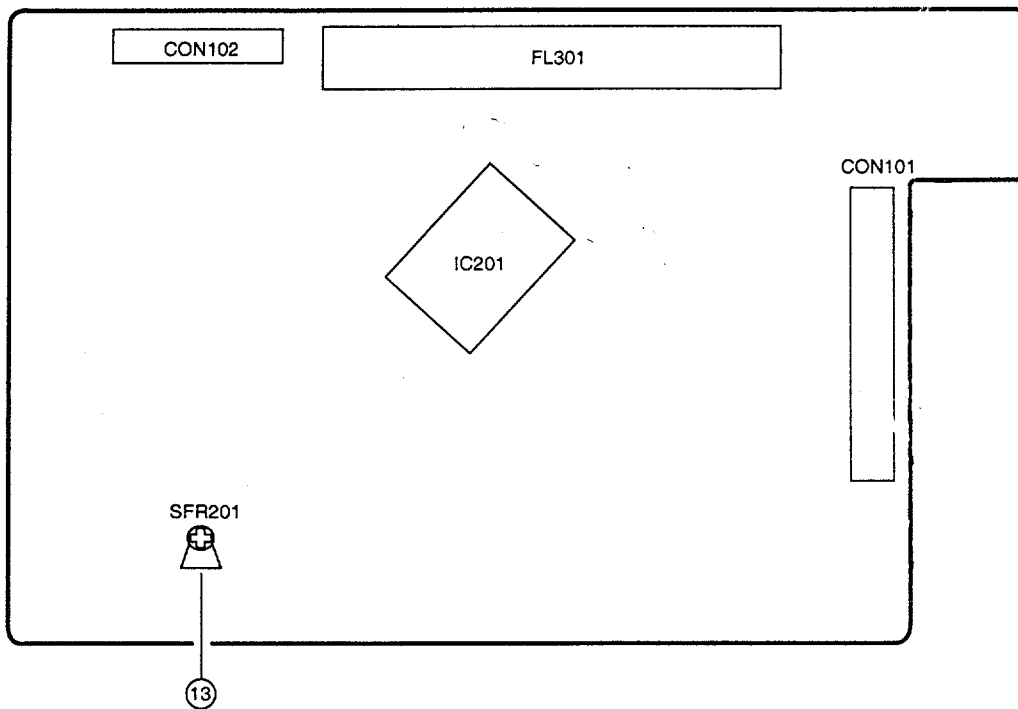
: TP8(Lch), TP9(Rch) (Distortion)

• Adjustment location : L771

• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V $\pm$ 0.04V. Next, check that the distortion is less than 1.3%.

B FRONT C.B



12. Auto Stop Level Check

- MW : • Input level : 52dB
• Test point : TP5
- Method : Check auto stop at MW 999kHz and the level is 52dB +10dB /-15dB.
- FM : • Input level : 25dB
• Test point : TP5
- Method : Check auto stop at FM 98.0MHz and the level is 25 dB $\pm$ 10 dB.

signal with respect to that of the 315Hz signal is within 5dB.

< DECK SECTION >

13. Tape Speed Adjustment (DECK 1, DECK 2)

- Settings : • Test tape : TTA-100
• Test point : TP8(Lch), TP9(Rch)
• Adjustment location : SFR201
- Method : Play back the test tape and adjust SFR201 so that the frequency counter reads 3000Hz $\pm$ 5Hz.

14. Head Azimuth Adjustment (DECK 1, DECK 2)

- Settings : • Test tape : TTA-330
• Test point : TP8(Lch), TP9(Rch)
• Adjustment location : Head azimuth adjustment screw
- Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode (NSX-S205 DECK2 only).

15. PB Frequency Response Check (DECK 1, DECK 2)

- Settings : • Test tape : TTA-330
• Test point : TP8(Lch), TP9(Rch)
- Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz

16. PB Sensitivity Check (DECK 1, DECK 2)

- Settings : • Test tape : TTA-200
• Test point : TP8(Lch), TP9(Rch)
- Method : Play back the test tape and check that the output level of the test point is 110mV $\pm$ 3.0dB

17. REC/PB Frequency Response Check (DECK 1)

- Settings : • Test tape : TTA-602
• Test point : TP8(Lch), TP9(Rch)
• Input signal : 1kHz / 8kHz (LINE IN)
- Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -26dBV. Record and play back the 1kHz and 8kHz signals so that the output of the 8kHz signals are as following values with respect to that of the 1kHz signal.
One way deck type : 0dB +4dB/-6dB.
Reverse deck type : 2dB $\pm$ 5dB.

18. REC/PB Sensitivity Check (DECK 1)

- Settings : • Test tape : TTA-602
• Test point : TP8(Lch), TP9(Rch)
• Input signal : 1kHz (LINE IN)
- Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (-6dBV). Record and play back the 1kHz and 8kHz signal and check that the output is -2 $\pm$ 3.5dB.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : Less than 10 / 9 / 9dB
(THD 3%) (at 87.5 / 98.0 / 108.0MHz)
S/N 50dB Quieting sensitivity :
Less than 35dB
(at 98.0MHz (HE,HR))
Signal to noise ratio : More than 68dB (at 98.0MHz)
Distortion : Less than 1.2% (at 98.0MHz)
Auto stop level : 25dB $\pm$ 10dB
Stereo separation : More than 25dB (at 98.0MHz)
Intermediate frequency : 10.7MHz

<MW SECTION>

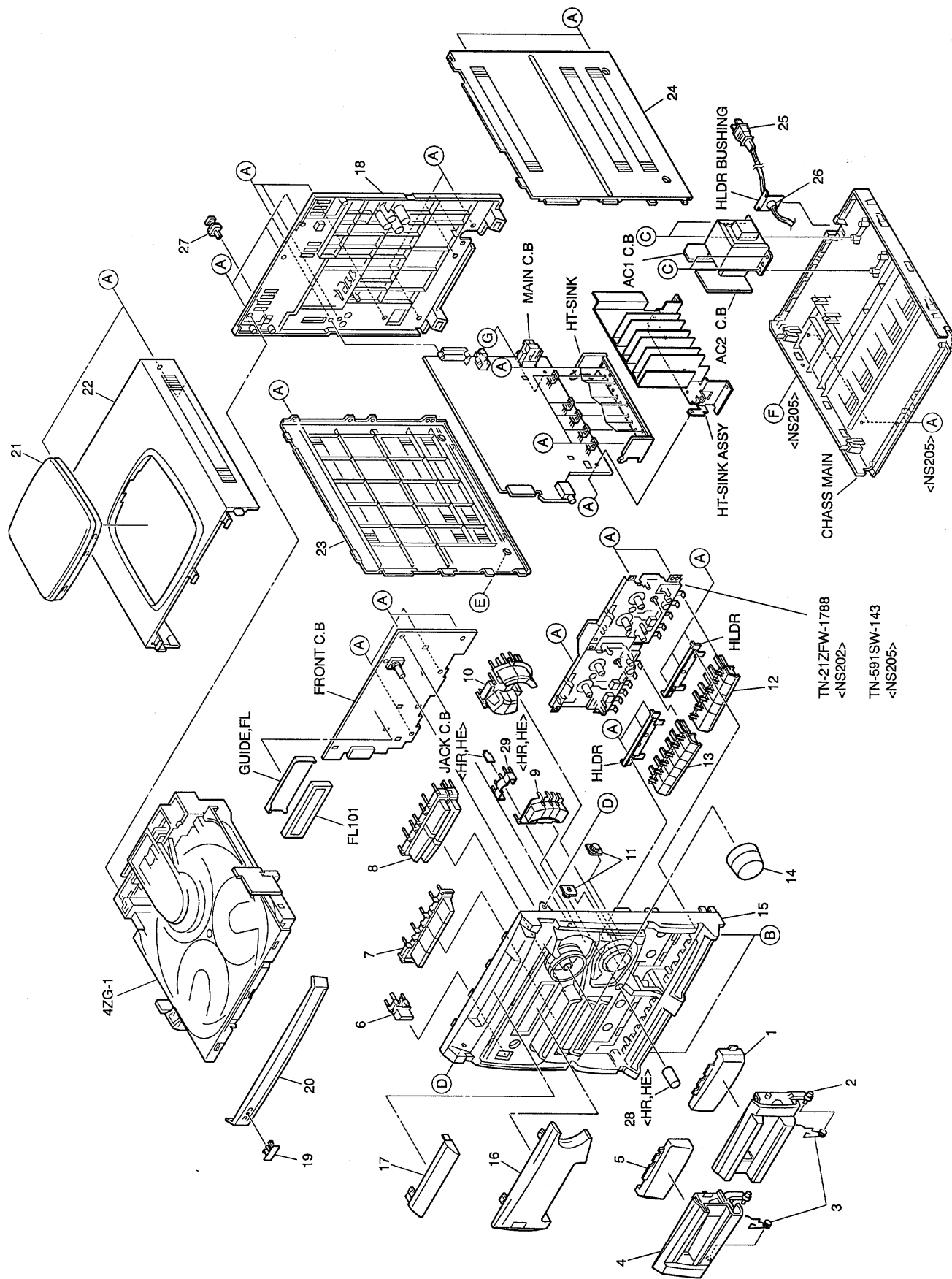
Sensitivity : Less than 60dB (at 603kHz)
Less than 58dB (at 1000kHz)
Less than 58dB (at 1404kHz)
Signal to noise ratio : More than 36dB (at 1000kHz)
Distortion : Less than 1.5% (at 1000kHz)
Auto stop level : 52dB +10/-15dB (at 1000kHz)
Intermediate frequency : 450kHz

<SW SECTION> (HE,HR)

Sensitivity : Less than 55dB (at 5.9MHz)
Less than 49dB (at 12.0 MHz)
Less than 42dB (at 17.9MHz)
Signal to noise ratio : More than 36dB (at 12.0MHz)
Distortion : Less than 10% (at 12.0MHz)

<DECK SECTION>

Tape speed : 3000Hz $\pm$ 45Hz
Wow & flutter : Less than 0.25% (W.R.M.S)
Take-up torque : 30 ~ 60g-cm (FWD)
Back tension : 2 ~ 5g-cm
PB output level : 280mV $\pm$ 3dB
REC/PB output level : 180mV $\pm$ 3dB
Distortion (REC/PB) : Less than 2.0% (NORM)
Noise level (PB) : Less than 1.0mV (NORM, SP OUT 2V)
Noise level (REC/PB) : Less than 3.0mV (NORM, SP OUT 2V)
Erasing ratio : More than 60dB (at 125Hz, +10VU)
Test tape : TTA-602 (NORMAL)



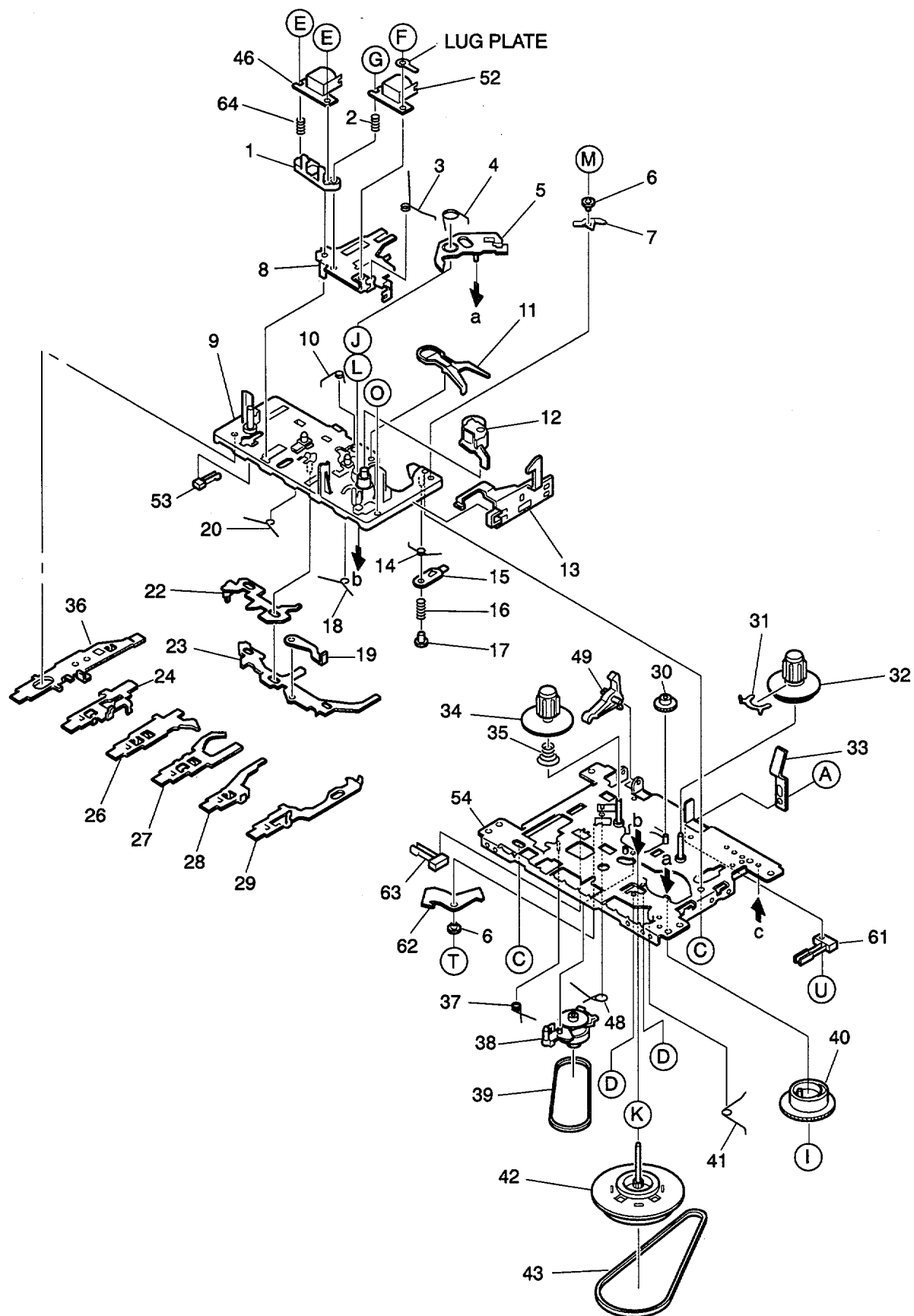
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF9-014-010		WINDOW,CASS 1	18	88-NF9-079-010		CABI,REAR HI HRJSTNM<5HR>
2	88-NF9-025-110		BOX,CASS 1H<5LH,5HR,5HE>	18	88-NF9-053-010		CABI,REAR HI LHSTNC<5LH>
2	88-NF9-003-110		BOX,CASS U1<2LH,2HR,2HE>	18	88-NF9-058-010		CABI,REAR HRSTNM<2HR>
3	82-NF7-218-010		SPR-T,CASS	18	88-NF9-040-010		CABI,REAR LHSTNC<2LH>
4	88-NF9-026-110		BOX,CASS 2H<5LH,5HR,5HE>	19	82-NE6-067-010		BADGE,AIWA 30N
4	88-NF9-004-110		BOX,CASS U2<2LH,2HR,2HE>	20	88-NF9-018-010		PANEL,TRAY
5	88-NF9-015-010		WINDOW,CASS 2	21	86-NFZ-001-010		WINDOW, TOP
6	88-NF9-005-010		KEY,POWER	22	87-NF8-045-010		PANEL, TOP ST
7	88-NF9-008-010		KEY,FUN	23	88-NF9-030-010		PANEL, LEFT
8	88-NF9-011-010		KEY,OPE	24	88-NF9-031-010		PANEL, RIGHT
9	88-NF9-007-010		KEY,GEQ	△ 25	87-050-079-010		AC-CORD ASSY,E
10	88-NF9-006-010		KEY,CD	26	87-085-185-010		BUSHING, AC CORD (E)
11	86-NFZ-231-010		DMFR,70	27	84-ZG1-245-210		CAP,OPTICAL
12	88-NF9-009-110		KEY,CASS 1	28	88-NF9-056-010		KNOB,RTRY MIC<EXCEPT 2LH,5LH>
13	88-NF9-010-110		KEY,CASS 2<2LH,2HR,2HE>	29	88-NF9-019-010		PLATE,MIC<EXCEPT 2LH,5LH>
13	88-NF9-027-110		KEY,CASS 2H<5LH,5HR,5HE>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
14	88-NF9-012-010		KNOB,RTRY VOL	B	87-067-758-010		BVT2+3-12 W/O SLOT<2LH,2HR,2HE>
15	88-NF9-021-010		CABI,FR HR<EXCEPT 2LH,5LH>	B	87-067-688-010		BVTT+3-6<5LH,5HR,5HE>
15	88-NF9-022-010		CABI,FR LH<2LH,5LH>	C	87-078-019-010		S-SCREW,IT+4-6<5LH,5HR,5HE>
16	88-NF9-033-110		WINDOW,DISP H<2LH,2HR,2HE>	C	87-741-172-410		UT2+4-12 W/O SLOT<2LH,2HR,2HE>
16	88-NF9-039-110		WINDOW,DISP HI H<5LH,5HR,5HE>	D	87-721-097-410		QT2+3-12 GLD
17	88-NF9-016-010		WINDOW,CD	E	87-067-641-010		UTT2+3-8(W/O SLOT)BL
18	88-NF9-041-010		CABI,REAR HEJSTNC<2HE>	F	87-721-096-410		QT2+3-10 GLD<5LH,5HR,5HE>
18	88-NF9-054-010		CABI,REAR HI HEJSTNC<5HE>	G	87-NF4-224-010		S-SCREW,IT3B+3-8 CU<5LH,5HR,5HE>

*NOTE : PLEASE READ 2LH=202LH, 2HE=202HE, 2HR=202HR, 5LH=205LH, 5HE=205HE, 5HR=205HR

TAPE MECHANISM EXPLODED VIEW 1 / 2
(CX-NS202 <TN-21ZFW-1788>)

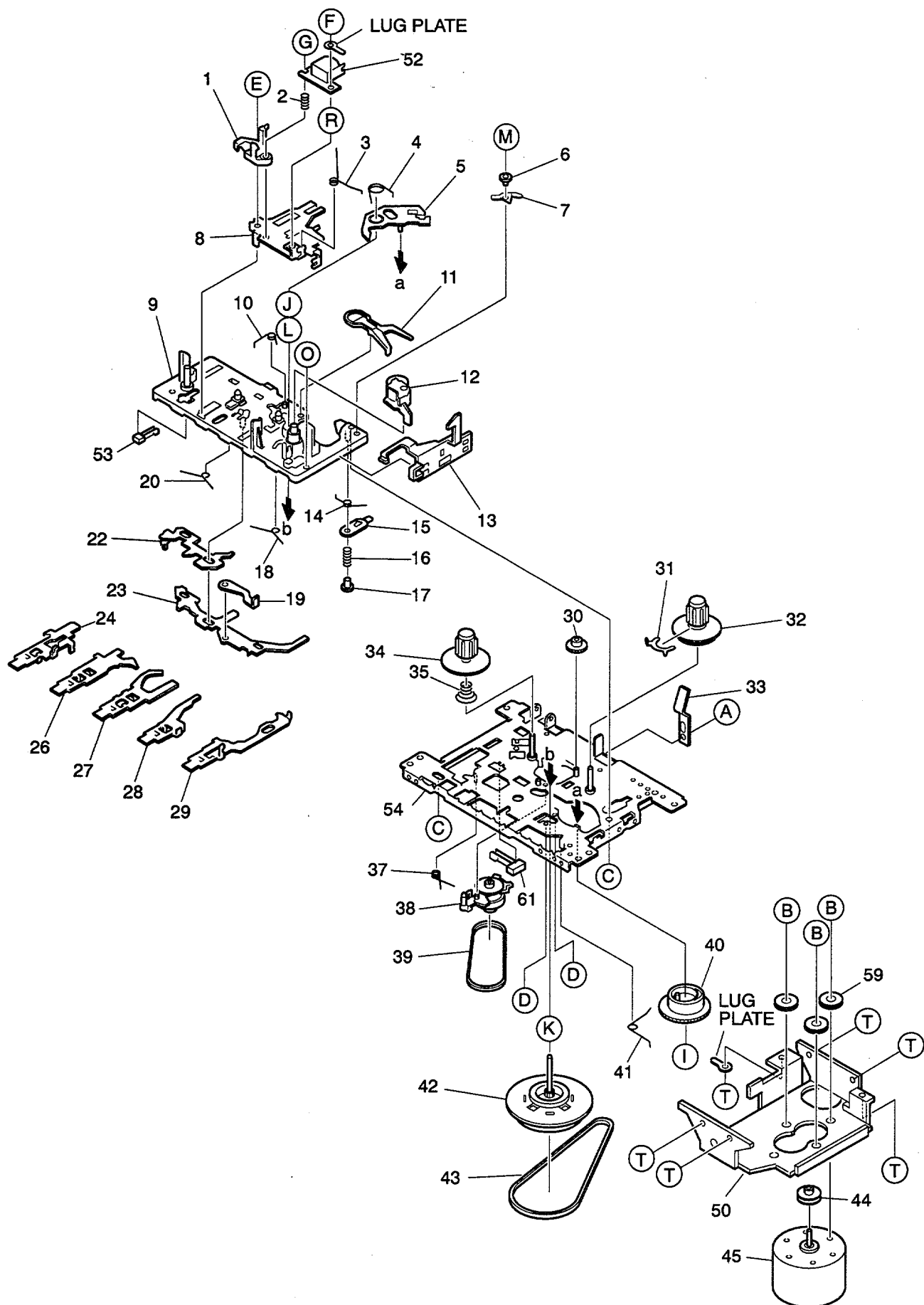


TAPE MECHANISM PARTS LIST 1 / 2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-060		HEAD BASE	38	S1-921-073-080		RF CLUTCH ASSY
2	S1-821-030-070		AZIMUTH SPRING	39	S1-821-070-110		RF BELT
3	S1-921-030-090		PANEL P SPRING	40	S1-921-260-020		CAM GEAR
4	S1-921-260-050		GEAR PLATE SPRING	41	S1-921-140-160		E ACTUATOR SPRING
5	S1-921-265-020		GEAR PLATE ASSY	42	S1-921-093-210		FLYWHEEL ASSY
6	S1-921-140-370		P ARM COLLER	43	S1-921-090-240		MAIN BELT
7	S1-921-140-340		P ARM	46	S6-202-140-190		E,HEAD
8	S1-921-030-140		HEAD PANEL	48	S1-921-140-210		REC BUTTON LEVER SPRING
9	S1-921-143-170		BASE ASSY	49	S1-821-100-690		RECORD SAFETY LEVER
10	S1-921-141-8A0		M CONTROL SPRING	52	S6-202-010-920		R.P HEAD MS15R-AK0N1
11	S1-921-260-4A0		SENSING LEVER	53	S6-401-011-490		LEAF SW MSW-1541T
12	S1-921-043-100		PINCH ROLLER ARM ASSY	54	S1-921-015-010		CHASSIS ASSY
13	S1-921-130-020		EJECT SLIDE LEVER	61	S6-401-010-380		LEAF SWITCH MSW-1275
14	S1-921-141-3A0		P CONTROL SPRING	62	S1-921-020-010		REC ARM
15	S1-921-140-550		PAUSE LEVER(E)	63	S6-401-011-610		LEAF SW MSW-17820MVE1
16	S1-921-140-120		PAUSE LEVER SPRING	64	S1-821-030-080		EH SPRING
17	S1-921-140-110		PAUSE STOPPER	A	S9-P04-200-310		TAPPING SCREW 2-3
18	S1-921-140-150		BUTTON LEVER SPRING(B)	C	S9-B10-200-510		P TAPPING BIND ACREW M2-5
19	S1-921-140-640		E KICK LEVER	D	S9-C07-204-510		SCREW,TAPPING M2-4.5
20	S1-921-140-140		BUTTON LEVER SPRING(A)	E	S9-P17-205-710		+CAP SCREW M2-7.5
22	S1-921-140-090		SWITCH ACTUATOR	F	S9-B01-200-310		+ BIND SCREW M2-3
23	S1-921-140-080		PUSH BUTTON ACTUATOR	G	S9-F08-200-710		AZIMUTH SCREW M2-7
24	S1-921-140-230		PLAY BUTTON LEVER	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
26	S1-921-140-240		REW BUTTON LEVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
27	S1-921-140-250		FF BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
28	S1-921-140-660		STOP BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
29	S1-921-140-610		PAUSE BUTTON LEVER	M	S9-P08-203-010		PS TAPPING SCREW M2-5
30	S1-821-100-700		FF GEAR	O	S9-P05-200-610		S TAPPING SCREW M2-6
31	S1-921-050-060		SENSOR	T	S9-P04-200-410		C TAPPING SCREW M2-4
32	S1-921-053-100		TAKE UP REEL ASSY	U	S9-P04-200-510		C TAPPING SCREW M2-5
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				
36	S1-921-140-220		REC BUTTON LEVER				
37	S1-921-140-170		P.S.LEVER SPRING				

TAPE MECHANISM EXPLODED VIEW 2 / 2
(CX-NS202 <TN-21ZFW-1788>)



TAPE MECHANISM PARTS LIST 2 / 2

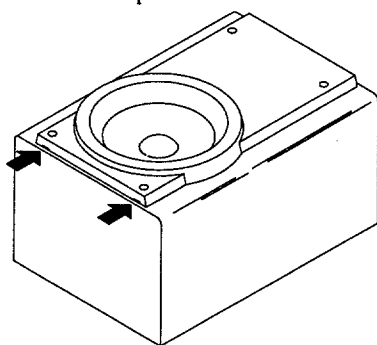
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE	39	S1-821-070-110		RF BELT
2	S1-821-030-070		AZIMUTH SPRING	40	S1-921-260-020		CAM GEAR
3	S1-921-030-090		PANEL P SPRING	41	S1-921-140-160		E ACTUATOR SPRING
4	S1-921-260-050		GEAR PLATE SPRING	42	S1-921-093-240		FLYWHEEL ASSY
5	S1-921-265-020		GEAR PLATE ASSY	43	S1-921-090-240		MAIN BBELT
6	S1-921-140-370		P ARM COLLER	44	S1-921-120-130		MOTOR PULLEY
7	S1-921-140-340		P ARM	45	S6-002-030-290		MOTOR EG530YD-2BH
8	S1-921-030-110		HEAD PANEL	50	S1-921-120-110		MOTOR BRACKET
9	S1-921-143-010		BASE ASSY	52	S6-202-010-920		R.P HEAD MS15R-AK0N1
10	S1-921-141-8A0		M CONTROL SPRING	53	S6-401-011-490		LEAF SW MSW-1541T
11	S1-921-260-4A0		SENSING LEVER	54	S1-921-015-010		CHASSIS ASSY
12	S1-921-043-100		PINCH ROLLER ARM ASSY	59	S1-820-130-060		MOTOR RUBBER
13	S1-921-130-020		EJECT SLIDE LEVER	61	S6-401-011-610		LEAF SW MSW-17820MVE1
14	S1-921-141-3A0		P CONTROL SPRING	A	S9-P04-200-310		TAPPING SCREW 2-3
15	S1-921-140-550		PAUSE LEVER(E)	B	S1-821-120-020		MOTOR COLLER SCREW
16	S1-921-140-120		PAUSE LEVER SPRING	C	S9-B10-200-510		P TAPPING BIND ACREW M2-5
17	S1-921-140-110		PAUSE STOPPER	D	S9-C07-204-510		SCREW,TAPPING M2-4.5
18	S1-921-140-150		BUTTON LEVER SPRING(B)	E	S9-P01-200-610		SCREW M2-6
19	S1-821-011-590		E KICK LEVER	F	S9-B01-200-310		+ BIND SCREW M2-3
20	S1-921-140-140		BUTTON LEVER SPRING(A)	G	S9-F08-200-710		AZIMUTH SCREW M2-7
22	S1-921-140-090		SWITCH ACTUATOR	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
23	S1-921-140-080		PUSH BUTTON ACTUATOR	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
24	S1-921-140-230		PLAY BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
26	S1-921-140-240		REW BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
27	S1-921-140-250		FF BUTTON LEVER	M	S9-P08-203-010		PS TAPPING SCREW M2-5
28	S1-921-140-260		STOP BUTTON LEVER	O	S9-P05-200-610		S TAPPING SCREW M2-6
29	S1-921-140-610		PAUSE BUTTON LEVER	T	S9-P04-200-410		C TAPPING SCREW M2-4
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENER				
32	S1-921-053-100		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				
37	S1-921-140-170		P.S.LEVER SPRING				
38	S1-921-073-080		RF CLUTCH ASSY				

SPEAKER DISASSEMBLY INSTRUCTIONS

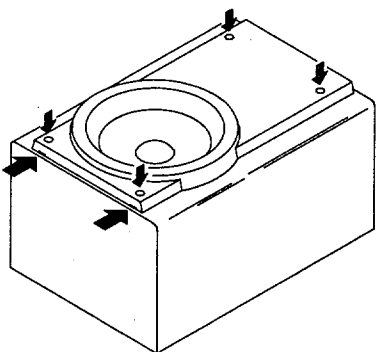
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



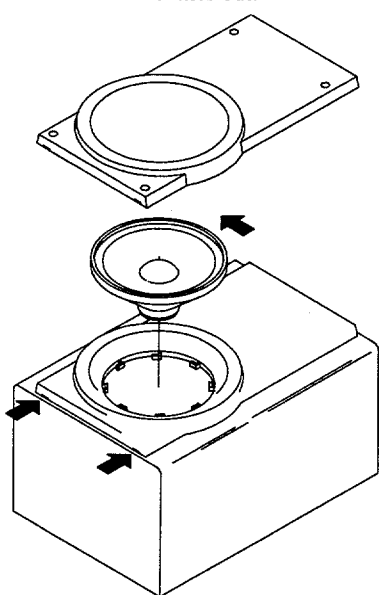
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

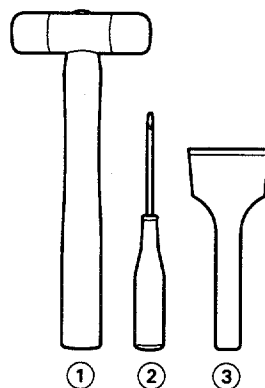


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

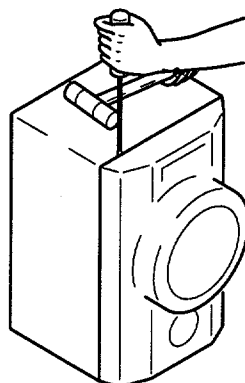


Fig-1

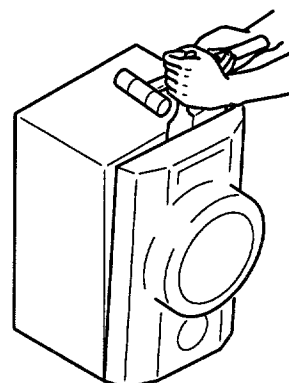


Fig-2

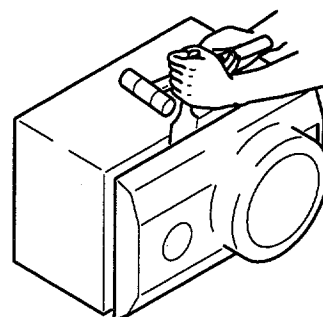
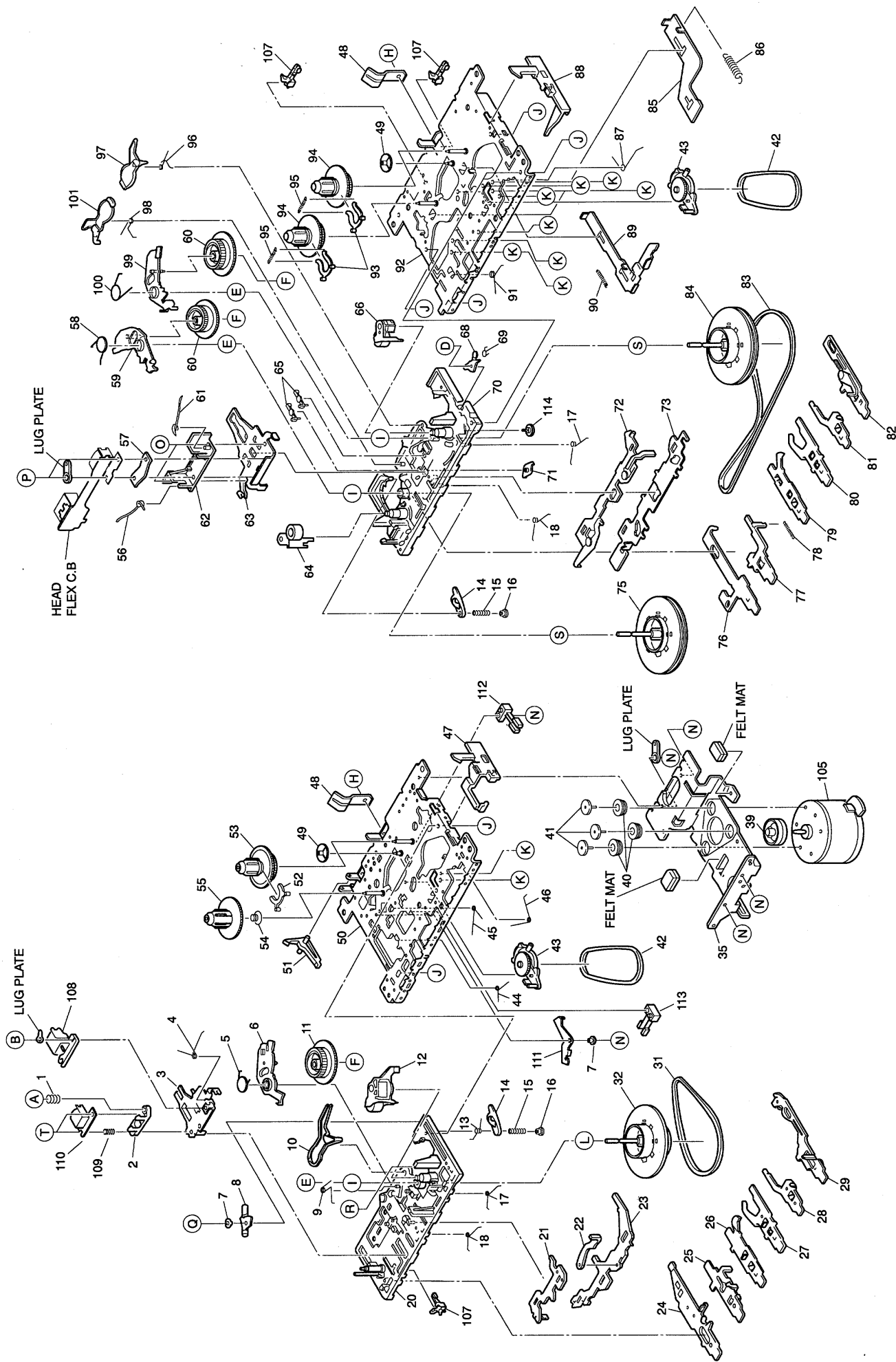


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.



TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-821-030-070		AZIMUTH SPRING	69	S1-959-140-270		ROTARY SPRING
2	S1-921-030-060		HEAD BASE	70	S1-959-143-010		BASE ASSY
3	S1-921-030-140		HEAD PANEL	71	S1-959-140-230		PR STOPPER
4	S1-921-030-090		PANEL P SPR	72	S1-959-145-010		ACTUATOR ASSY
5	S1-921-260-050		GEAR PLATE SPRING	73	S1-959-140-260		SLIDE PLATE
6	S1-921-265-020		GEAR PLATE ASSY	75	S1-959-093-040		FLYWHEEL(R)ASSY
7	S1-921-140-370		P ARM COLLAR	76	S1-959-140-170		MODE BUTTON LEVER(S)
8	S1-921-140-340		P ARM	77	S1-959-140-160		PLAY BUTTON LEVER(S)
9	S1-921-141-8A0		M CONTROL SPRING	78	S1-959-030-020		SPR,PANEL
10	S1-921-260-4A0		SENSING LEVER	79	S1-959-140-150		FF BUTTON LEVER(RS)
11	S1-921-260-020		CAM GEAR	80	S1-959-140-140		FF BUTTON LEVER(FS)
12	S1-921-043-100		PINCH ROLLER ARM ASSY	81	S1-959-140-130		STOP BUTTON LEVER(S)
13	S1-921-141-3A0		P CONTROL SPRING	82	S1-959-143-030		PROG BUTTON LEVER(S)ASY
14	S1-921-140-820		PAUSE LEVER(F)	83	S1-851-140-170		MAIN BELT
15	S1-921-140-120		PAUSE LEVER SPRING	84	S1-959-093-030		FLYWHEEL CAPSTAN(F)ASSY
16	S1-921-140-110		PAUSE STOPPER	85	S1-959-150-010		MUTING PLATE
17	S1-921-141-080		BUTTON LEVER SPRING(B)	86	S1-959-150-020		MUTING PLATE SP
18	S1-921-141-070		BUTTON LEVER SPRING(A)	87	S1-959-140-200		E ACTUATOR SPRING
20	S1-921-143-160		BASE ASSY	88	S1-959-130-020		EJECT SLIDE LEVER(S)
21	S1-921-140-090		SWITCH ACTUATOR	89	S1-959-010-020		MAIN PLATE
22	S1-921-140-640		E KICK LEVER	90	S1-959-010-030		SPR,MAIN PLATE
23	S1-921-140-080		PUSH BUTTON ACTUATOR	91	S1-959-140-220		PM BUTTON LEVER SPRING
24	S1-921-140-220		REC BUTTON LEVER	92	S1-959-015-010		CHASSIS ASSY
25	S1-921-140-840		PLAY BUTTON LEVER	93	S1-959-050-010		SENSOR
26	S1-921-140-240		REW BUTTON LEVER	94	S1-921-053-090		TAKE UP REEL ASSY
27	S1-921-140-250		FF BUTTON LEVER	95	S1-959-050-040		SENSOR SPRING
28	S1-921-140-660		STOP BUTTON LEVER	96	S1-959-260-090		M CONTROL SPR(F)
29	S1-921-140-610		PAUSE BUTTON LEVER	97	S1-959-260-060		SENSING LEVER(F)
31	S1-821-121-730		MAIN BELT	98	S1-959-260-100		M CONTROL SPR(R)
32	S1-921-093-260		FLYWHEEL ASSY	99	S1-959-265-010		GEAR PLATE(F)ASSY
35	S1-851-140-070		MOTOR BRACKET	100	S1-959-260-040		GEAR PLATE SPR(F)
39	S1-959-120-010		MOTOR PULLEY	101	S1-959-260-070		SENSING LEVER(R)
40	S1-821-120-660		MOTOR RUBBER	105	S6-002-030-290		MOTOR EG-530YD-2BH
41	S1-851-140-180		MOTOR COLLAR SCREW	107	S6-401-011-490		LEAF SW MSW-1541T
42	S1-821-070-110		RF,BELT	108	S6-201-011-110		R.P HEAD RP-7442ES0951
43	S1-959-073-010		RF CLUTCH ASSY	109	S1-921-030-080		EH,SPRING
44	S1-921-140-170		P.S.LEVER SPRING	110	S6-202-140-190		E HEAD LE15B-C1
45	S1-921-140-210		REC BUTTON LEVER SPR	111	S1-921-020-010		REC ARM
46	S1-921-140-160		E ACTUATOR SPRING	112	S6-401-010-380		LEAF SWITCH MSW-1275
47	S1-921-130-020		EJECT SLIDE LEVER	113	S6-401-011-610		LEAF SW MSW-17820-MVE1
48	S1-829-100-010		SPR,PACK	114	S1-959-140-080		ROTARY ARM SHAFT
49	S1-821-100-700		FF GEAR	A	S9-F08-200-710		SCREW,M2-7
50	S1-921-015-010		CHASSIS ASSY	B	S9-B01-200-310		SCREW,+2-3
51	S1-821-100-690		REC SAFETY LEVER	C	S9-P01-200-610		SCREW,M2-6
52	S1-921-050-060		SENSOR	D	S9-E01-001-520		E RING S1.5
53	S1-921-053-100		TAKE UP REEL ASSY	E	S9-W06-500-200		HLW CUT 1.45-3.8-0.5
54	S1-921-050-220		BACK TENSION SPRING	F	S9-W06-300-300		HLW CUT 1.2-3.8-0.3
55	S1-921-050-150		S REEL HUB	H	S9-P04-200-310		SCREW,TAP M2-3
56	S1-959-040-040		SPR,P.ROLLER ARM(R)	I	S9-W01-130-200		P.W 2.1-4-0.13
57	S1-851-040-050		PLATE HEAD SPR	J	S9-B10-200-510		SCREW,TAP 2-5
58	S1-959-260-050		GEAR PLATE SPR(R)	K	S9-C07-204-510		SCREW,TAP 2-4.5
59	S1-959-265-020		GEAR PLATE(R)ASSY	L	S9-W01-400-100		PW 2-3.5-0.4
60	S1-959-260-030		CAM GEAR	N	S9-P04-200-410		C TAPPING SCREW M2-4
61	S1-959-040-020		SPR,P.ROLLER ARM(F)	O	S9-C04-202-530		S-SCREW,TAP 2-2.5
62	S1-959-030-030		HEAD BASE	P	S9-P14-200-630		S-SCREW,M2-6 BLK
63	S1-959-030-010		HEAD PANEL	Q	S9-P08-203-010		SCREW,TAP M2-3
64	S1-959-043-040		PINCH ROLLER ARM(R)ASSY	R	S9-P05-200-810		SCREW,TAPPING 2-8
65	S1-959-260-080		M CONTROL ARM	S	S9-W05-300-100		HLW 2.1-3.5-0.3
66	S1-959-043-030		PINCH ROLLER ARM(F)ASSY	T	S9-P17-205-710		SCREW,M2-7.5
68	S1-959-140-090		ROTARY ARM				

SPEAKER PARTS LIST **(SX-NS202 <Y1,YJ,YJ7,YJ8,YL>)**

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NS7-611-010		CORD,SPKR
2	88-NSK-001-010		PANEL,FR
3	88-NSK-610-010		SPKR, CERAMIC ASSY
4	88-NSK-603-010		SPKR, W 120<YJ,YJ7,YL>
5	88-NSK-601-010		SPKR, W 120<Y1,YJ8>

SPEAKER PARTS LIST **(SX-NS302 <YJ,YJ7,YJ8,YL>)**

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NS7-611-010		CORD,SPKR
2	88-NSJ-001-010		PANEL,FR
3	87-NSH-612-010		SPKR, CERAMIC ASSY
4	87-NS7-608-010		SPKR, W 140
5	87-NS7-610-010		SPKR, T 60
6	86-NS5-012-010		BADGE, AIWA 35

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF9-901-010		IB,H(ECA)M<2HR>
1	88-NF9-931-010		IB,H(ECA)M 205<5HR>
1	88-NF9-911-010		IB,H(ECA)SOL<2HE>
1	88-NF9-921-010		IB,H(ECA)SOL 205<5HE>
1	88-NF9-912-010		IB,LH(ESP)SOL<2LH>
1	88-NF9-922-010		IB,LH(ESP)SOL 205<5LH>
2	87-006-269-010		AM LOOP ANT(UN)<EXCEPT 2LH,5LH>
2	87-006-225-010		AM LOOP ANT NC2<2LH,5LH>
3	87-043-115-010		ANT,FEEDER FM
3	87-043-095-010		WIRE ANTENNA<2HR,5HR>
△ 4	87-099-789-010		PLUG,ADPTR IR44
5	87-A90-119-010		ANT,WIRE SW(5M)<5HE,2HE>
6	88-NF9-660-010		RC UNIT,6AS14

★ NOTE : PLEASE READ 2LH=202LH, 2HE=202HE, 2HR=202HR, 5LH=205LH, 5HE=205HE, 5HR=205HR

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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