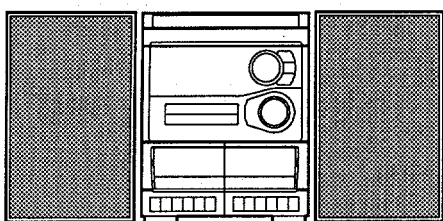


aiwa



NSX-S201 NSX-S202 NSX-S203



CD STEREO SYSTEM

- BASIC TAPE MECHANISM: TN-21ZFW-1788
- BASIC CD MECHANISM: 4ZG-1 Z3DLSHNM/Z4DLSHNC
- TYPE: LH,EZ,K,V

REVISION PUBLISHING

System	CD Mechanism		Tape Mechanism
	Z3DLSHNM	Z4DLSHNC	
NSX-S201<LH> NSX-S202<EZ,K,V> NSX-S203<EZ>	201<LH> 202<EZ> STNM 203<EZ> STNM	202<EZ,K> STNE 202<EZ,K,V> STNC 203<EZ> STNC, STNE	TN-21ZFW-1788

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-S201	CX-NS201	SX-SNS202	RC UNIT,6AS14
NSX-S202	CX-NS202	SX-NS202	
NSX-S203	CX-NS203	SX-NS202	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual", S/M Code No. 09-986-285-20A and 09-986-285-2FE.
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1. (S/M Code No.09-983-249-3OT)

SPECIFICATIONS

<FM Tuner section> (LH,EZ,K)

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<FM Tuner section> (V)

Tuning range	FM1 (OIRT) 65 MHz to 74 MHz (10 kHz step) FM2 (CCIR) 87.5 MHz to 108 MHz (10 kHz step)
Usable sensitivity(IHF)	FM1 : 15.3 dBf FM2 : 12.8 dBf
Antenna terminals	75 ohms (unbalanced)

<AM (MW) Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<LW Tuner section> (EZ,K)

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	Rated : 12 W + 12 W (6 ohms, THD 1%, 1 kHz/DIN 45500) Reference : 15 W + 15 W (6 ohms, THD 10%, 1 kHz/DIN 45324) DIN MUSIC POWER: 35 W + 35 W
Total harmonic distortion	0.1% (6 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 500 mV
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz - 10000 Hz
Recording system	AC bias
Heads	Deck 1 : Recording/Playback head x 1, erase head x 1 Deck 2 : Playback head x 1

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-NS202

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 120 mm cone type Tweeter : 20 mm ceramic type
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	230 V AC, 50 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.

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-NF9-905-010	IB,K(E)H<K>	
1	88-NF9-906-010	IB,E(E9L)H<202EZ>	
1	88-NF9-907-010	IB,V(ER)H<V>	
1	88-NF9-916-010	IB,E(9L)203H<203EZ>	
1	88-NF9-923-010	IB,LH(P)CCE 201<LH>	
2	87-006-225-010	AM LOOP ANT NC2	
3	87-043-115-010	ANT,FEEDER FM<LH,V>	
4	87-A90-118-010	ANT,WIRE FM(Z)<EZ,K>	
5	88-NF9-660-010	RC UNIT,6AS14	

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 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

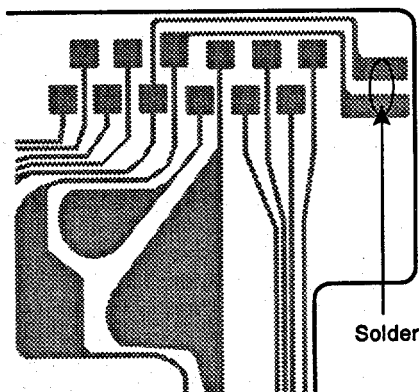
Precaution to replace Optical block

(KSS - 213C)

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.

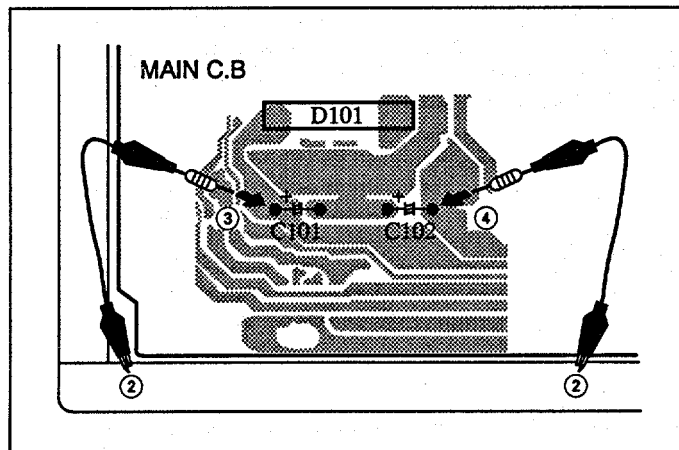


Fig-1

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.

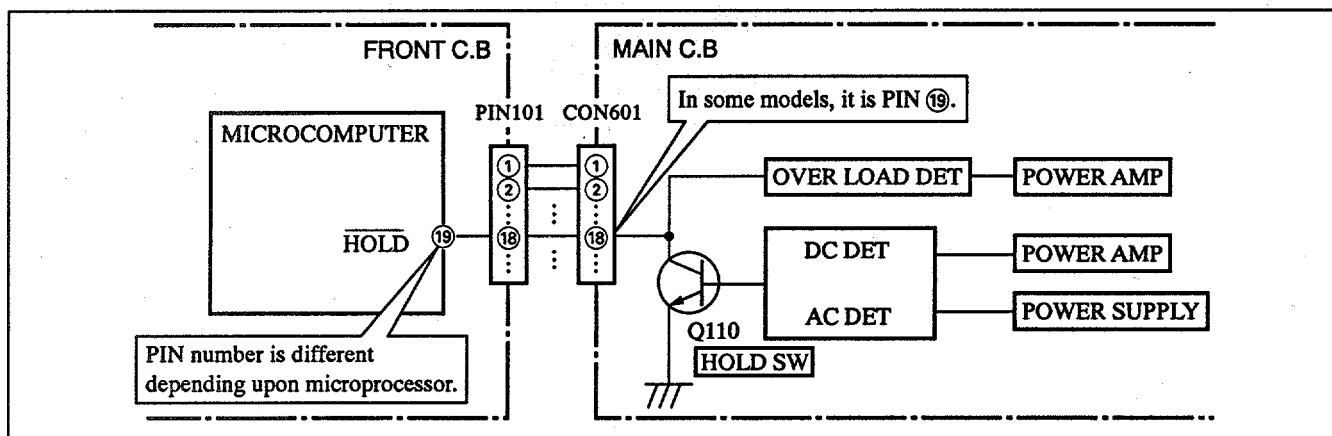


Fig-2-1

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.

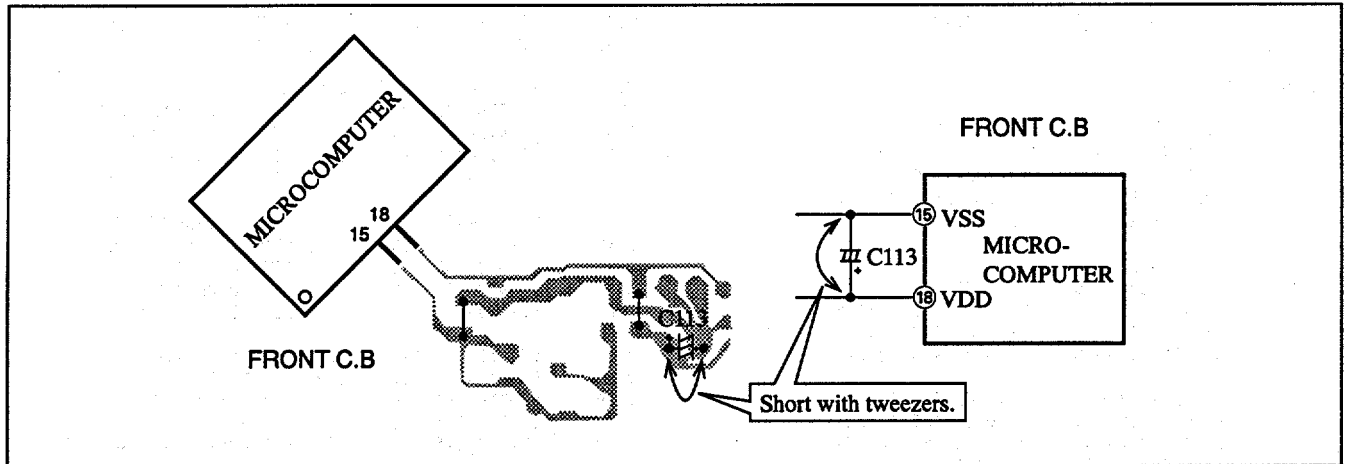


Fig-2-2

- 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.

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				C219	87-010-544-080		CAP, ELECT 0.1-50V
	87-A20-502-010	IC, BU1920		C220	87-010-544-080		CAP, ELECT 0.1-50V
	88-NF9-653-010	IC, LA1837NZ		C221	87-018-211-080		CAP, CER 0.01-50<EZ, K>
	88-NF9-656-010	IC, LC72131DZ		C222	87-018-211-080		CAP, CER 0.01-50<EZ, K>
	88-NF9-659-010	IC, M38B57MCH-P202FP		C223	87-018-134-080		CAPACITOR, TC-U 0.01-16<EZ, K>
	88-NF9-632-010	IC, M62439SP		C224	87-018-134-080		CAPACITOR, TC-U 0.01-16<EZ, K>
	87-017-889-010	IC, NJM4558LD		C229	87-018-123-080		CAP, CER 220P-50V
	87-A20-951-010	IC, TSOP1838RF1		C230	87-018-123-080		CAP, CER 220P-50V
				C237	87-018-134-080		CAPACITOR, TC-U 0.01-16
				C239	87-010-402-080		CAP, ELECT 2.2-50V
TRANSISTOR				C240	87-010-402-080		CAP, ELECT 2.2-50V
	89-213-702-010	TR, 2SB1370E		C253	87-018-131-080		CAP, CER 1000P-50V<EZ, K>
	88-NF9-622-010	TR, 2SB1616		C254	87-018-131-080		CAP, CER 1000P-50V<EZ, K>
	87-A30-196-080	TR, 2SC4115SRS		C255	87-018-115-080		CAP, CER 47P-50V<EZ, K>
	89-305-352-380	TR, 2SC535(B/C)<EZ, K, V>		C256	87-018-115-080		CAP, CER 47P-50V<EZ, K>
	88-NF9-623-010	TR, 2SD2478		C257	87-018-119-080		CAP, CER 100P-50V<EZ, K>
	87-A30-091-080	FET, 2SJ460		C258	87-018-119-080		CAP, CER 100P-50V<EZ, K>
	87-A30-090-080	FET, 2SK2541		C301	87-018-197-080		CAP, CER 1800P-16V
	87-A30-092-080	FET, 2SK439E/F<EZ, K>		C302	87-018-197-080		CAP, CER 1800P-16V
	87-A30-164-080	TR, CSC2001K<EZ, K>		C303	87-018-196-080		CAP, CER 1500P-16V
	87-026-269-080	TR, DTA114ES<EZ, K>		C304	87-018-196-080		CAP, CER 1500P-16V
	87-026-214-080	TR, DTA114YS (0.3W)		C307	87-010-263-080		CAP, ELECT 100-10V
	87-026-219-080	TR, DTA144ES (0.3W)		C308	87-010-263-080		CAP, ELECT 100-10V
	87-026-218-080	TR, DTC144ES (0.2W)		C309	87-018-115-080		CAP, CER 47P-50V<EZ, K>
	87-026-609-080	TR, KTA1266GR		C310	87-018-115-080		CAP, CER 47P-50V<EZ, K>
	87-A30-197-080	TR, KTA1267GR		C315	87-010-375-080		CAP, E 330-10 SME<LH, V>
	87-026-610-080	TR, KTC3198GR		C317	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-198-080	TR, KTC3199GR		C318	87-010-546-080		CAP, ELECT 0.33-50V
	87-026-372-080	TR, RN1210		C322	87-018-209-080		CAP, CER 0.1-50V<EZ, K>
				C325	87-018-209-080		CAP, CER 0.1-50V<EZ, K>
DIODE				C326	87-018-209-080		CAP, CER 0.1-50V<EZ, K>
	87-A40-454-080	DIODE, 1N5393 GW		C326	87-018-205-080		CAP, CER A-SOL 0.022<LH, V>
	87-A40-393-090	DIODE, 1N5402GW F20		C327	87-018-209-080		CAP, CER 0.1-50V<EZ, K>
	87-A40-336-080	ZENER, MTZJ27D T-72		C329	87-018-134-080		CAPACITOR, TC-U 0.01-16<V>
	87-A40-470-080	DIODE, 1SS254		C360	87-010-401-080		CAP, ELECT 1-50V
	87-A40-308-080	ZENER, DZ10M		C361	87-010-374-080		CAP, ELECT 47-10V
	87-A40-345-080	ZENER, MTZJ10C		C401	87-010-401-080		CAP, ELECT 1-50V<LH, V>
	87-070-274-080	DIODE, 1N4003 SEM		C401	87-010-400-080		CAP, ELECT 0.47-50V<EZ, K>
	87-A40-304-080	ZENER, DZ6.2M		C402	87-010-401-080		CAP, ELECT 1-50V<LH, V>
	87-017-932-080	ZENER, MTZJ6.2B		C402	87-010-400-080		CAP, ELECT 0.47-50V<EZ, K>
	87-A40-292-080	ZENER, DZ2.7L		C403	87-018-118-080		CAP, TC-U 82P-50 B
	87-A40-466-080	ZENER, MTZJ2.7A		C404	87-018-118-080		CAP, TC-U 82P-50 B
	87-A40-302-080	ZENER, DZ5.6M		C411	87-010-405-080		CAP, ELECT 10-50V
	87-017-931-080	ZENER, MTZJ5.6B		C412	87-010-405-080		CAP, ELECT 10-50V
				C452	87-010-382-080		CAP, ELECT 22-25V
MAIN C.B				C459	87-018-128-080		CAP, CERA-SOL SS 560P
C101	87-016-495-090	CAP, E 3300-25 SMG		C461	87-018-126-080		CAP, TC-U 390P-50 B
C104	87-A10-011-090	CAP, E 2200-25 SMG		C462	87-018-126-080		CAP, TC-U 390P-50 B
C105	87-018-127-080	CAP, CER 470P-50V		C601	87-018-195-080		CAP, CER 1200P-16V
C106	87-010-260-080	CAP, ELECT 47-25V		C602	87-018-195-080		CAP, CER 1200P-16V
C107	87-010-384-080	CAP, ELECT 100-25		C611	87-010-545-080		CAP, ELECT 0.22-50V
C108	87-010-381-080	CAP, ELECT 330-16V		C612	87-010-545-080		CAP, ELECT 0.22-50V
C111	87-010-247-080	CAP, ELECT 100-50V		C613	87-010-545-080		CAP, ELECT 0.22-50V
C112	87-010-263-080	CAP, ELECT 100-10V		C614	87-010-545-080		CAP, ELECT 0.22-50V
C113	87-010-403-080	CAP, ELECT 3.3-50V		C615	87-018-104-080		CAP, TC-U 10P-50 SL
C114	87-010-374-080	CAP, ELECT 47-10V		C616	87-010-260-080		CAP, ELECT 47-25V
C122	87-010-384-080	CAP, ELECT 100-25V		C617	87-010-260-080		CAP, ELECT 47-25V
C123	87-010-384-080	CAP, ELECT 100-25V		C701	87-010-404-080		CAP, ELECT 4.7-50V
C127	87-018-134-080	CAPACITOR, TC-U 0.01-16<V>		C702	87-018-134-080		CAPACITOR, TC-U 0.01-16
C130	87-018-131-080	CAPACITOR, CER 1000P-50V<V>		C703	87-018-134-080		CAPACITOR, TC-U 0.01-16
C207	87-010-544-080	CAP, ELECT 0.1-50V		C704	87-018-131-080		CAP, CER 1000P-50V
C208	87-010-544-080	CAP, ELECT 0.1-50V		C705	87-018-131-080		CAP, CER 1000P-50V
C209	87-018-133-080	CAPACITOR, CER 4700P-16V		C706	87-018-131-080		CAP, CER 1000P-50V
C210	87-018-133-080	CAPACITOR, CER 4700P-16V		C707	87-010-112-080		CAP, ELECT 100-16V
C211	87-010-402-080	CAP, ELECT 2.2-50V		C709	87-010-248-080		CAP, ELECT 220-10V
C212	87-010-402-080	CAP, ELECT 2.2-50V		C710	87-010-112-080		CAP, ELECT 100-16V
C213	87-010-260-080	CAP, ELECT 47-25V		C712	87-018-149-080		CAP, TC-U 15P-50 CH
C214	87-010-260-080	CAP, ELECT 47-25V		C713	87-018-149-080		CAP, TC-U 15P-50 CH
				C714	87-010-112-080		CAP, ELECT 100-16V
				C715	87-018-119-080		CAP, CER 100P-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C746	87-018-134-080		CAPACITOR,TC-U 0.01-16	FB303	87-008-372-080		FILTER, EMI BL OIRNI<EZ,K>
C752	87-018-143-080		CAP, TC-U 4.7P-50CH<EZ,K,V>	FB601	87-008-372-080		FILTER, EMI BL OIRNI<EZ,K>
C753	87-010-408-080		CAP, ELECT 47-50V	FC602	88-906-251-110		FF-CABLE, 6P 1.25
C756	87-018-134-080		CAPACITOR,TC-U 0.01-16	FFE801	A8-82A-191-030		82A-1 YFEUNM<LH>
C757	87-018-134-080		CAPACITOR,TC-U 0.01-16	FFE801	A8-62A-19C-170		62A-1 YFEENC<EZ,K>
C758	87-010-112-080		CAP, ELECT 100-16V	FFE801	A8-62A-19F-170		62A-1 YFEVNC<V>
C759	87-018-134-080		CAPACITOR,TC-U 0.01-16	J201	88-NF9-620-010		JACK,DIA6.3 BLK ST W/SW KM16AT
C761	87-010-404-080		CAP, ELECT 4.7-50V	J202	87-A60-238-010		TERMINAL,SP 4P (MSC)
C762	87-010-400-080		CAP, ELECT 0.47-50V	J601	87-A60-425-010		JACK,PIN 2P YKC21-3838
C763	87-010-401-080		CAP, ELECT 1-50V	J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<LH,V>
C764	87-010-401-080		CAP, ELECT 1-50V	J801	87-A60-427-010		TERMINAL,ANT PAL 2P<EZ,K>
C765	87-018-115-080		CAP, CER 47P-50V	L201	87-003-383-010		COIL,1UH-S
C766	87-010-407-080		CAP, ELECT 33-50V	L202	87-003-383-010		COIL,1UH-S
C768	87-018-208-080		CAP 0.047-50F	L451	87-007-342-010		COIL,OSC 85K BIAS
C769	87-010-403-080		CAP, ELECT 3.3-50V	L701	87-005-847-080		COIL,2.2UH<CECS>
C770	87-018-134-080		CAPACITOR,TC-U 0.01-16	L771	87-A50-266-010		COIL,FM DET-2N<TOK>
C771	87-010-406-080		CAP, ELECT 22-50	L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
C773	87-018-131-080		CAP, CER 1000P-50V<LH,V>	L801	87-005-847-080		COIL,2.2UH<CECS>
C773	87-018-196-080		CAP, CER 1500P-16V<K>	L851	87-005-847-080		COIL,2.2UH<CECS><203EZ>
C773	87-018-195-080		CAP, CER 1200P-16V<EZ>	L941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ<EZ,K>
C774	87-010-405-080		CAP, ELECT 10-50V	L942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ<EZ,K>
C775	88-266-850-810		CAP,SC 0.047-25 X K	L981	88-NF9-651-010		COI,AM PACK 4E<TOK><LH,V>
C783	87-018-199-080		CAP, CER 3300P<LH,V>	L981	87-NF4-651-010		COI,AM PACK 2N<TOM><EZ,K>
C783	87-018-202-080		CAP, CER 6800P<EZ,K>	R249	87-A00-258-080		RES,M/F 0.22-1W J
C784	87-018-199-080		CAP, CER 3300P<LH,V>	R250	87-A00-258-080		RES,M/F 0.22-1W J
C784	87-018-202-080		CAP, CER 6800P<EZ,K>	TC942	87-011-221-080		CAP,TRIMMER 30P<EZ,K>
C785	87-010-405-080		CAP, ELECT 10-50V	W101	83-NE2-618-110		F-CABEL,5P-2.5
C786	87-010-405-080		CAP, ELECT 10-50V	WH102	87-A90-460-010		HDR,WIRE 2.5-7P
C787	87-018-196-080		CAP,CER 1500P-16V<EZ,K,V>	X701	88-NF9-654-010		VIB,XTAL 4.500 MHZ CSA-309
C787	87-018-132-080		CAP, CER 2200P-16V<LH>	X851	89-KT1-608-010		X,TAL,4.332MHZ<203EZ>
C788	87-018-196-080		CAP,CER 1500P-16V<EZ,K,V>				
C788	87-018-132-080		CAP, CER 2200P-16V<LH>	FRONT C.B			
C789	87-010-403-080		CAP, ELECT 3.3-50V	C201	87-010-404-040		CAP,E 4.7-50 SME
C790	87-010-403-080		CAP, ELECT 3.3-50V	C202	87-015-698-040		CAP,E 4.7-50 7L
C801	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K>	C204	87-016-513-080		CAP,E 47-35 7L
C802	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K>	C205	87-018-205-080		CAP, CERA-SOL 0.022
C803	87-018-134-080		CAPACITOR,TC-U 0.01-16	C208	87-010-405-080		CAP, ELECT 10-50V
C804	87-018-134-080		CAPACITOR,TC-U 0.01-16				
C808	87-018-134-080		CAPACITOR,TC-U 0.01-16	C210	87-010-263-040		CAP,E 100-10
C809	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K,V>	C211	87-010-248-040		CAP,E 220-10 SME
C810	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K,V>	C212	87-018-205-080		CAP, CERA-SOL 0.022
C811	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K,V>	C213	87-010-401-040		CAP,E 1-50 SME
C812	87-010-408-080		CAP, ELECT 47-50V<EZ,K,V>	C214	87-018-134-080		CAPACITOR,TC-U 0.01-16
C813	87-018-131-080		CAP, CER 1000P-50V	C216	87-018-205-080		CAP, CERA-SOL 0.022
C851	87-018-123-080		CAP, CER 220P-50V<203EZ>	C218	87-018-205-080		CAP, CERA-SOL 0.022
C852	87-018-123-080		CAP, CER 220P-50V<203EZ>	C219	87-018-205-080		CAP, CERA-SOL 0.022
C855	87-010-405-080		CAP, ELECT 10-50V<203EZ>	C220	87-018-205-080		CAP, CERA-SOL 0.022
C856	87-010-405-080		CAP, ELECT 10-50V<203EZ>	C221	87-018-115-080		CAP, CER 47P-50V
C857	87-018-134-080		CAP,TC-U 0.01-16<203EZ>	C224	87-018-205-080		CAP, CERA-SOL 0.022
C858	87-018-109-080		CAP, CER 22P-50V<203EZ>	C225	87-018-149-080		CAP,TC-U 15P-50 CH
C859	87-018-109-080		CAP, CER 22P-50V<203EZ>	C226	87-018-113-080		CAP, CER 33P-50V
C860	87-018-134-080		CAP,TC-U 0.01-16<203EZ>	C231	87-010-384-040		CAP,E 100-25 SME
C921	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K>	C241	87-018-117-080		CAP,TC-U 68P-50 SL<LH,V>
C923	87-018-102-080		CAP,TC-U 6.8P-50 SL<EZ,K>	C241	87-018-121-080		CAP,CER 150P-50V<EZ,K>
C924	87-014-049-080		CAP, PP 470P-100J<EZ,K>	C242	87-018-117-080		CAP,TC-U 68P-50 SL
C857	87-018-134-080		CAP,TC-U 0.01-16<203EZ>	C243	87-018-117-080		CAP,TC-U 68P-50 SL
C937	87-018-134-080		CAP,TC-U 0.01-16<EZ,K>	C244	87-018-117-080		CAP,TC-U 68P-50 SL
C938	87-018-134-080		CAPACITOR,TC-U 0.01-16<EZ,K>	C245	87-018-117-080		CAP,TC-U 68P-50 SL
C944	87-018-104-080		CAP,TC-U 10P-50 SL<LH,V>	C246	87-018-118-080		CAP,TC-U 82P-50 B
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<LH,V>	C247	87-018-134-080		CAP,TC-U 0.01-16
CF801	87-008-423-010		FILTER, CF SFE10.7MS3G-A<EZ,K>	C251	87-018-205-080		CAP, CERA-SOL 0.022
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<V>	CN103	88-NF9-635-010		CONN ASSY,10P,MECHA
CF802	82-785-747-010		CF, MS2 GHY,R<EZ,K>	CON101	88-NF9-658-010		CONN,30P BLK TYK-B(P)
CN351	88-NF9-634-010		CONN ASSY,8P RPB	CON102	87-099-015-010		CONN,13P 6216V
CON301	87-A60-620-010		CONN,3P V 2MM JMT	CON103	87-A60-674-010		CONN,10P H 2MM JMT
CON351	87-A60-625-010		CONN,8P V 2MM JMT	FC102	88-913-221-110		FF-CABLE, 13P 1.25 220MM
CON601	88-NF9-657-010		CONN,30P H BLK TYK-B(X)	FL301	88-NF9-630-010		FL,10-BT-207GK
CON602	87-099-194-010		CONN,6P 6216V	S201	87-A90-535-010		SW,RTRY EC16B24304
FB301	87-008-372-080		FILTER, EMI BL OIRNI<EZ,K>	S301	87-A90-164-080		SW,TACT SKQAB(N)
FB302	87-008-372-080		FILTER, EMI BL OIRNI<EZ,K>	S302	87-A90-164-080		SW,TACT SKQAB(N)
				S303	87-A90-164-080		SW,TACT SKQAB(N)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S304	87-A90-164-080	SW, TACT	SKQAB(N)
S305	87-A90-164-080	SW, TACT	SKQAB(N)
S306	87-A90-164-080	SW, TACT	SKQAB(N)
S307	87-A90-164-080	SW, TACT	SKQAB(N)
S308	87-A90-164-080	SW, TACT	SKQAB(N)
S309	87-A90-164-080	SW, TACT	SKQAB(N)
S310	87-A90-164-080	SW, TACT	SKQAB(N)
S311	87-A90-164-080	SW, TACT	SKQAB(N)
S312	87-A90-164-080	SW, TACT	SKQAB(N)
S313	87-A90-164-080	SW, TACT	SKQAB(N)
S314	87-A90-164-080	SW, TACT	SKQAB(N)
S315	87-A90-164-080	SW, TACT	SKQAB(N)
S316	87-A90-164-080	SW, TACT	SKQAB(N)
S317	87-A90-164-080	SW, TACT	SKQAB(N)
S318	87-A90-164-080	SW, TACT	SKQAB(N)
S319	87-A90-164-080	SW, TACT	SKQAB(N)<203EZ>
S320	87-A90-164-080	SW, TACT	SKQAB(N)
S321	87-A90-164-080	SW, TACT	SKQAB(N)<203EZ>
S322	87-A90-164-080	SW, TACT	SKQAB(N)<203EZ>
SFR201	87-A90-556-080	SFR, 2.2K H	HOKU
X201	87-A70-075-080	VIB, CER	4.19MHZ CRHF
AC2 C.B			
WH101	87-A90-460-010	HLDR, WIRE	2.5-7P
AC1 C.B			
△ F101	87-035-219-010	FUSE, 500MA	'T'<LH>
△ F101	87-035-217-010	FUSE, 315MA	'T'<EZ, K, V>
△ FC101	87-033-147-010	FUSE CLAMP	
△ FC102	87-033-147-010	FUSE CLAMP	
△ PT101	88-NF9-608-010	PT, 8NF-9	EKZ<EZ, K, V>
△ PT101	88-NF9-609-010	PT, 8NF-9	LH<LH>
△ SW101	87-A90-165-010	SW, SL 1-2-3	SWS2301<LH>
△ T1	87-A60-317-010	TERMINAL, 1P	MSC
△ T2	87-A60-317-010	TERMINAL, 1P	MSC

TRANSISTOR ILLUSTRATION



B C E

2SC4115S



E C B

2SC535
CSC2001
KTA1266
KTC3198



B C E

2SB1370



E C B

DTA114ES
DTA114YS
DTA144ES
DTC144ES
RN1210



S D G

2SJ460



B C E

2SB1616
2SD2478



E C B

KTA1267
KTC3199



S D G

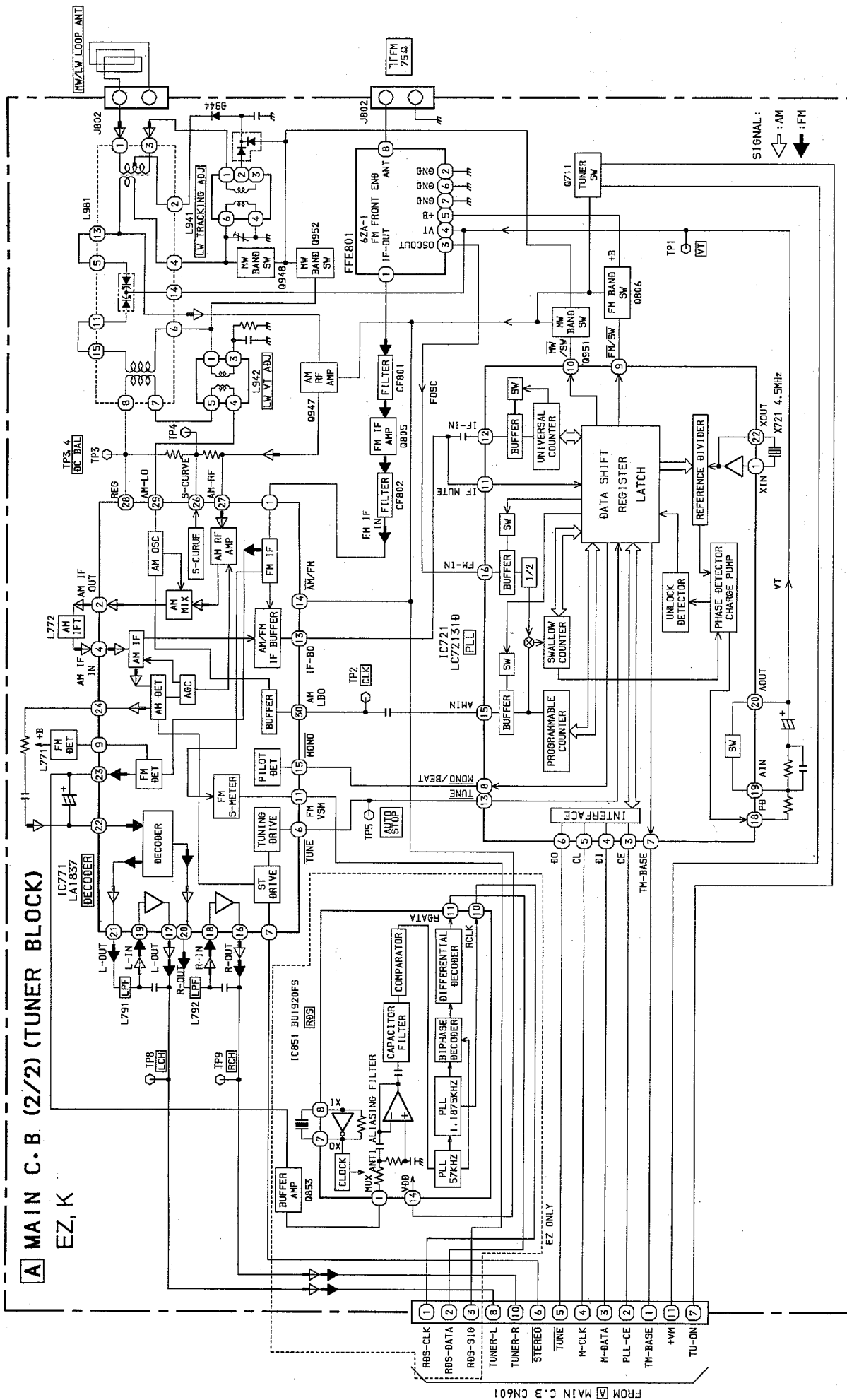
2SK2541

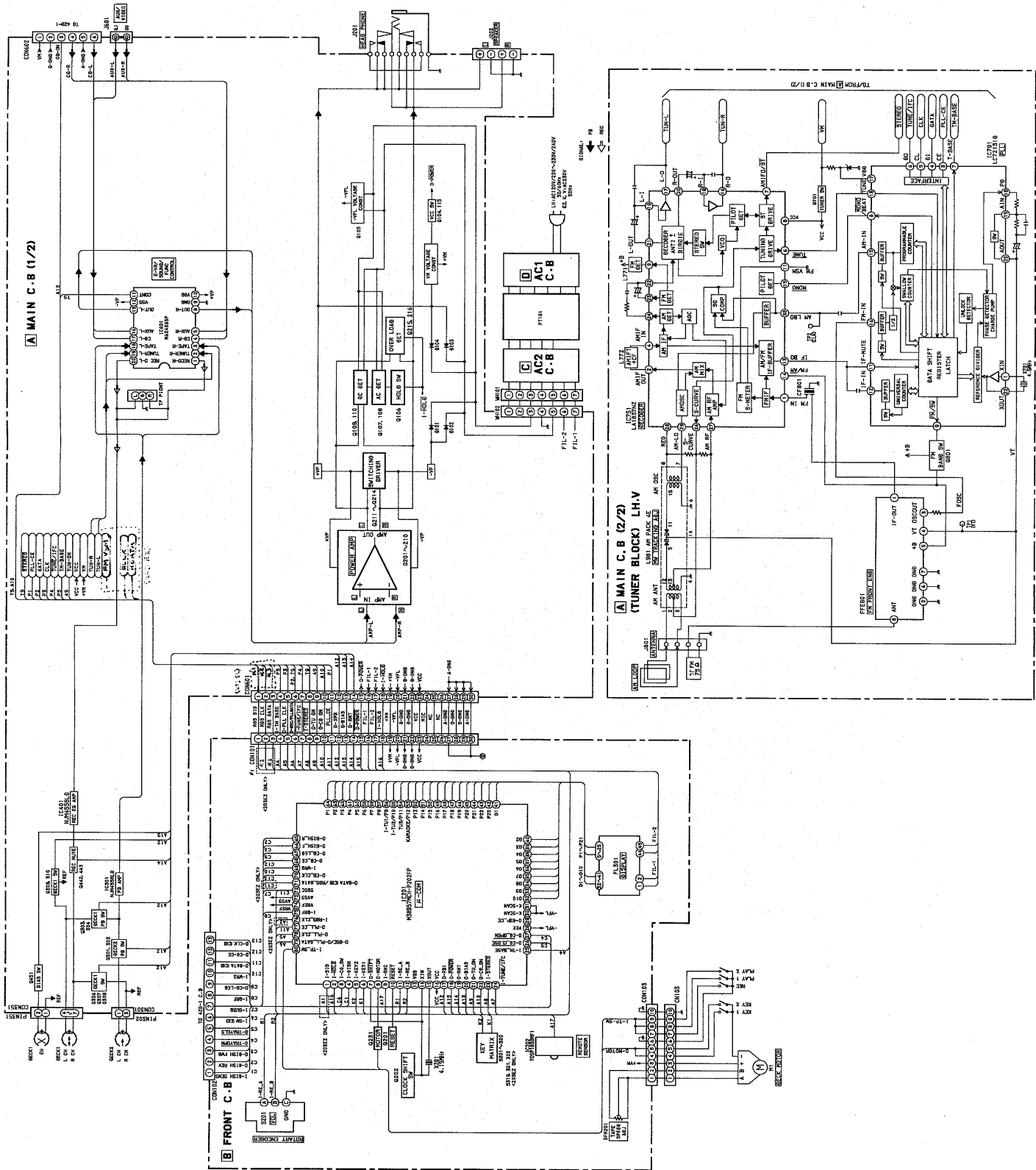


G S D

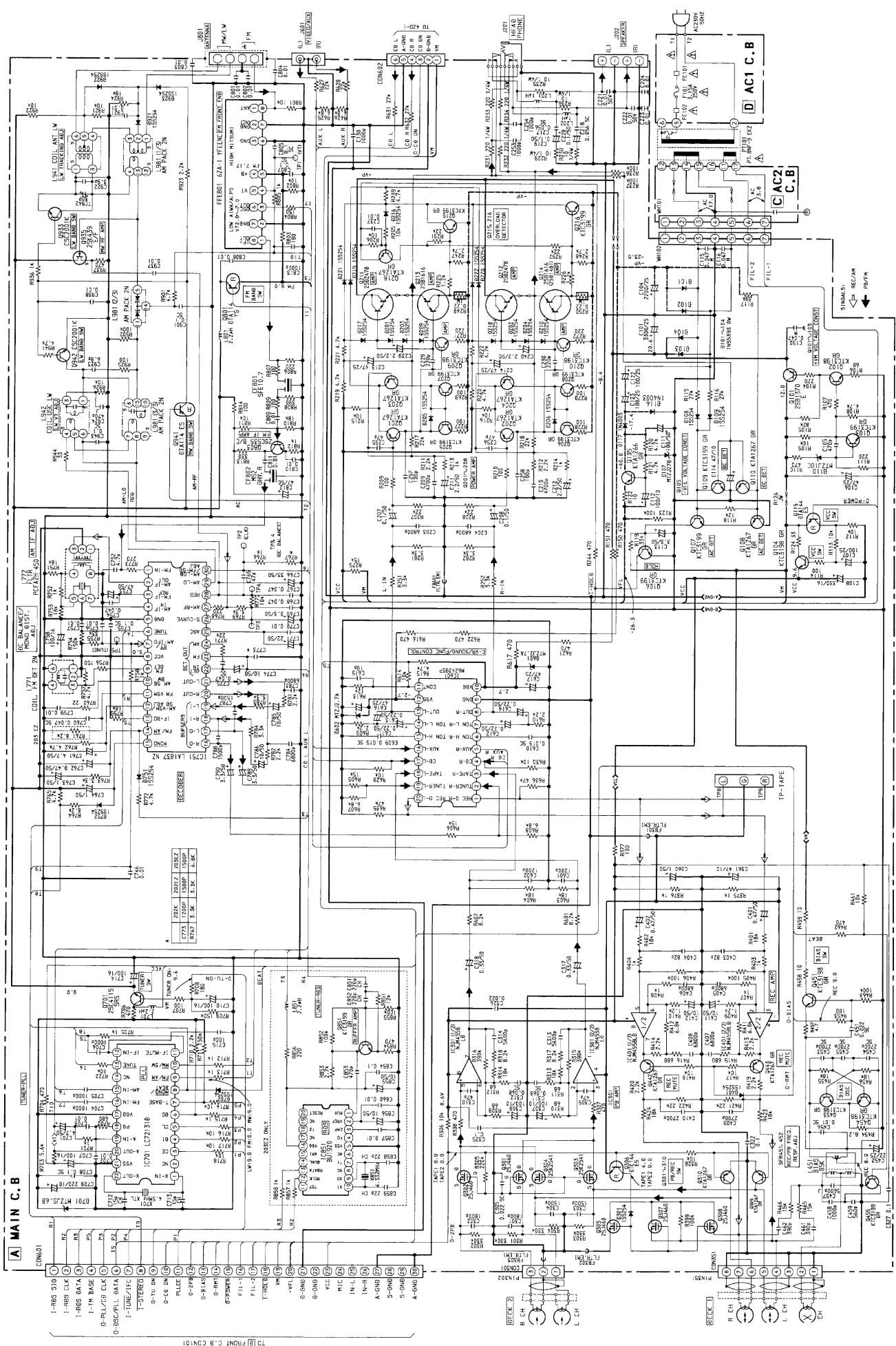
2SK439E

BLOCK DIAGRAM - 1 (EZ, K : MAIN C.B 2 / 2)



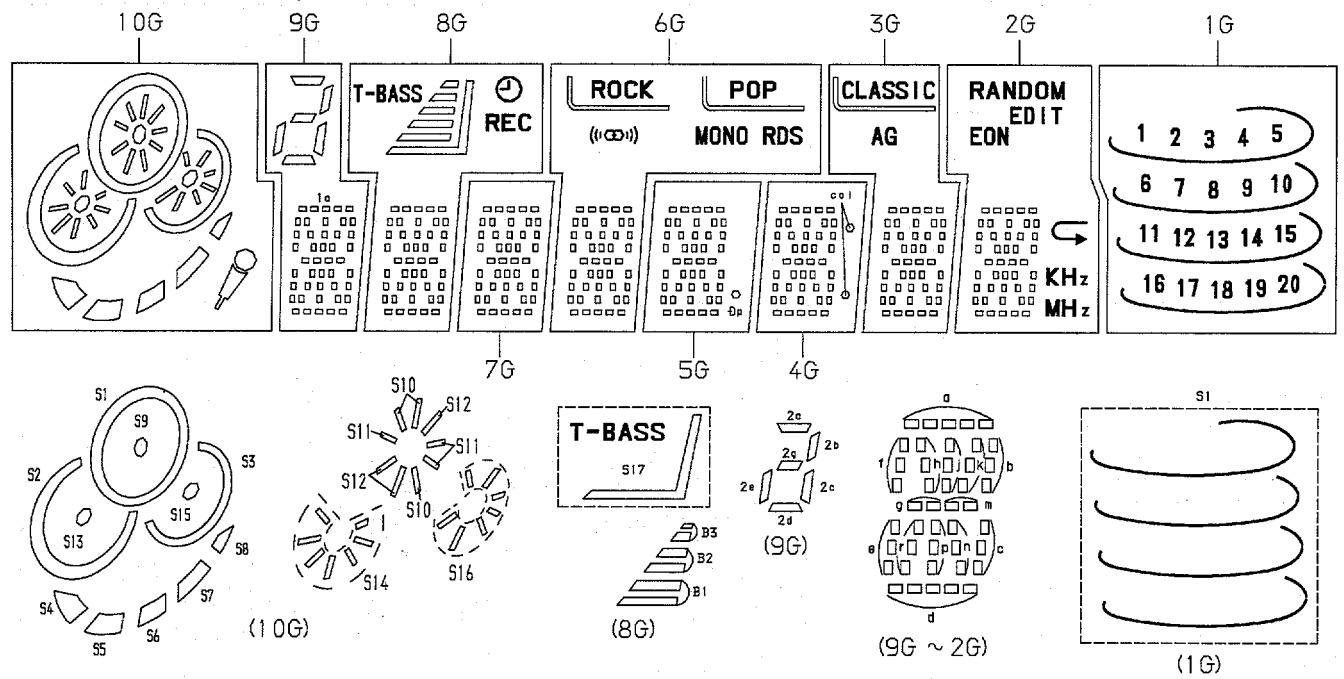






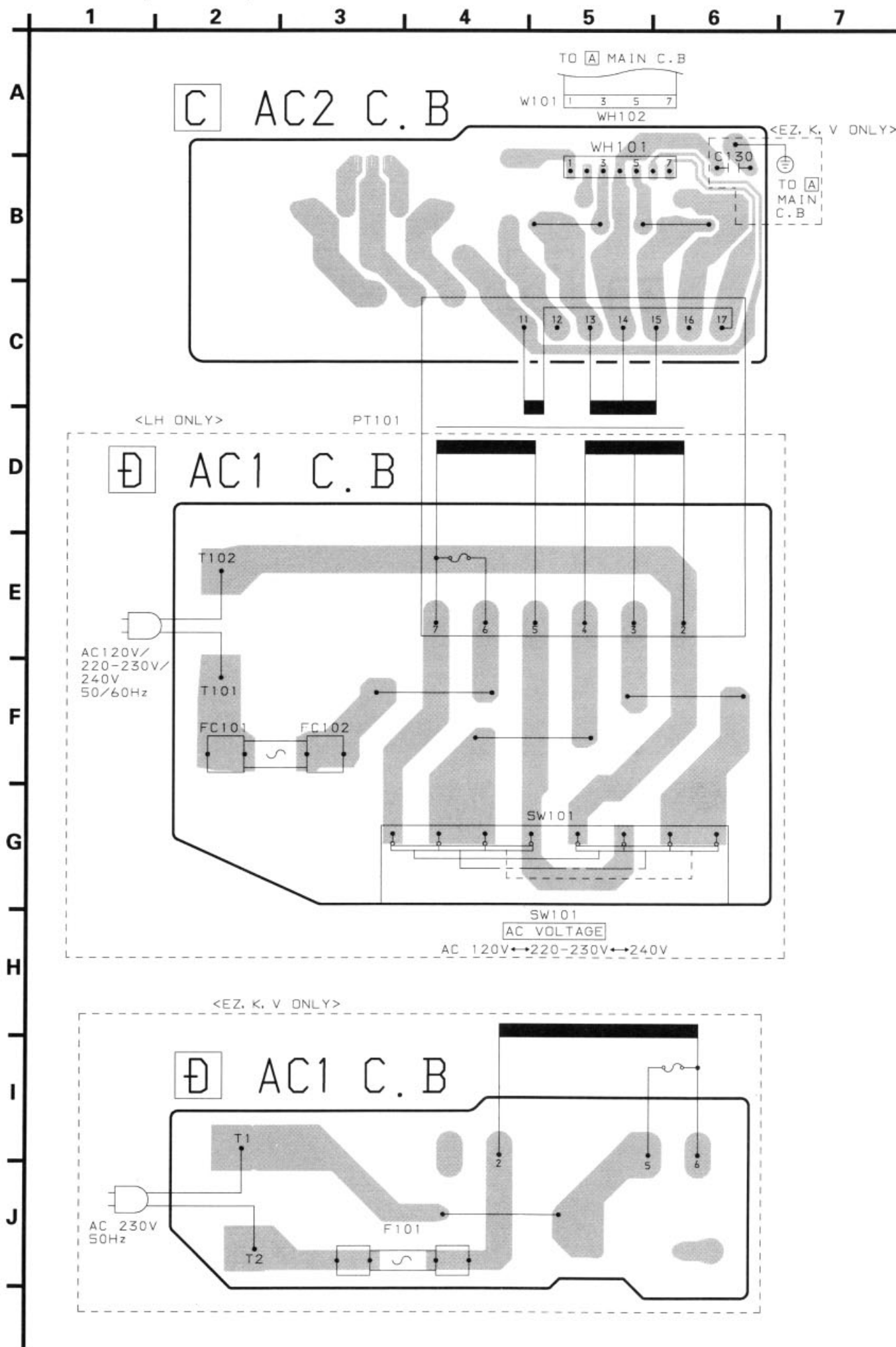
FL GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

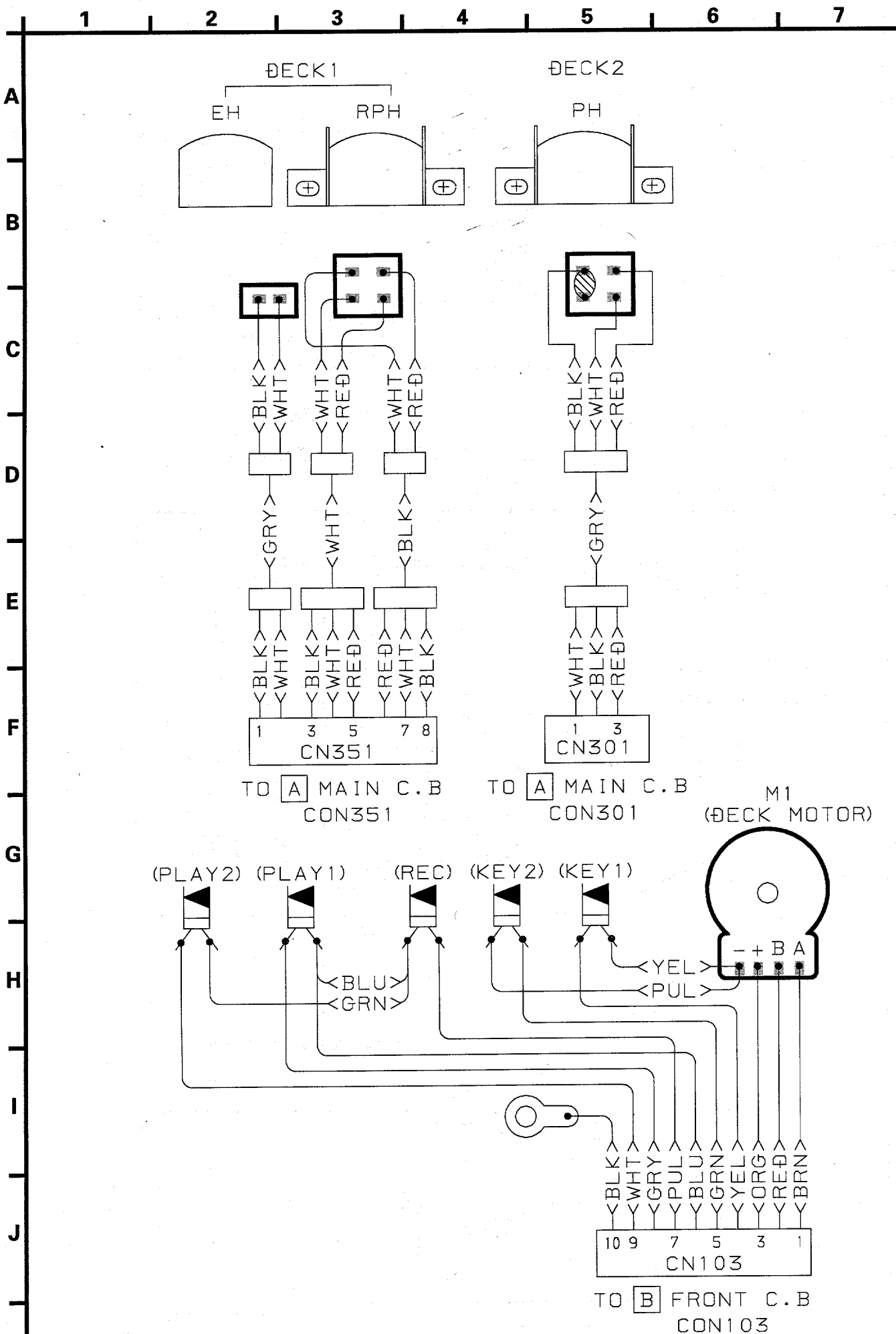


ANODE CONNECTION

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

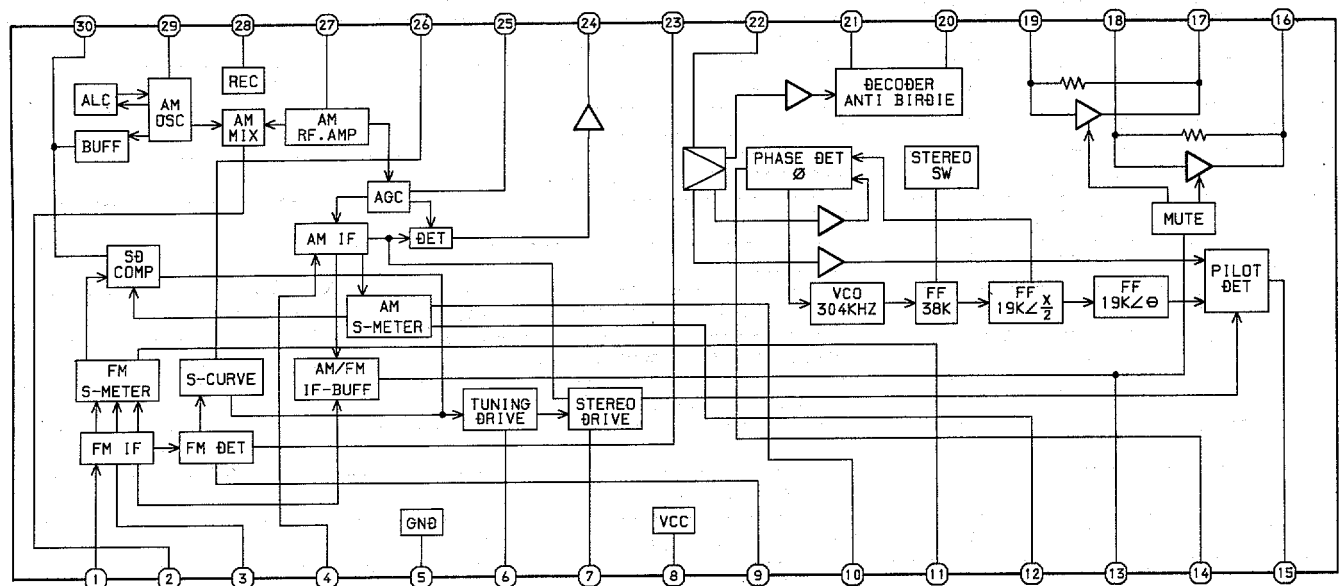


WIRING - 5 (DECK)

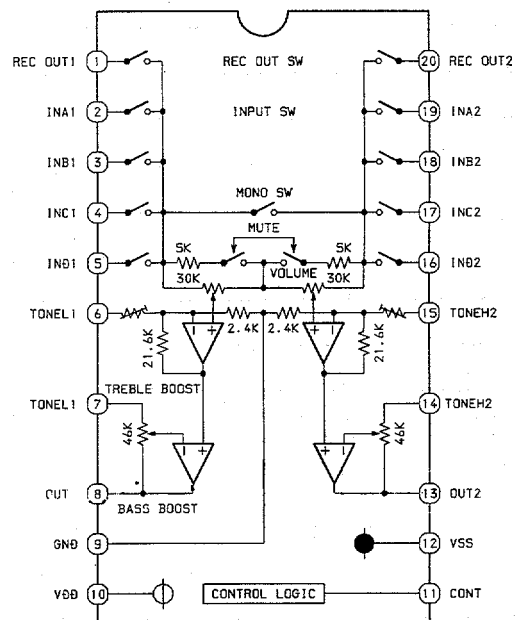


IC BLOCK DIAGRAM - 1

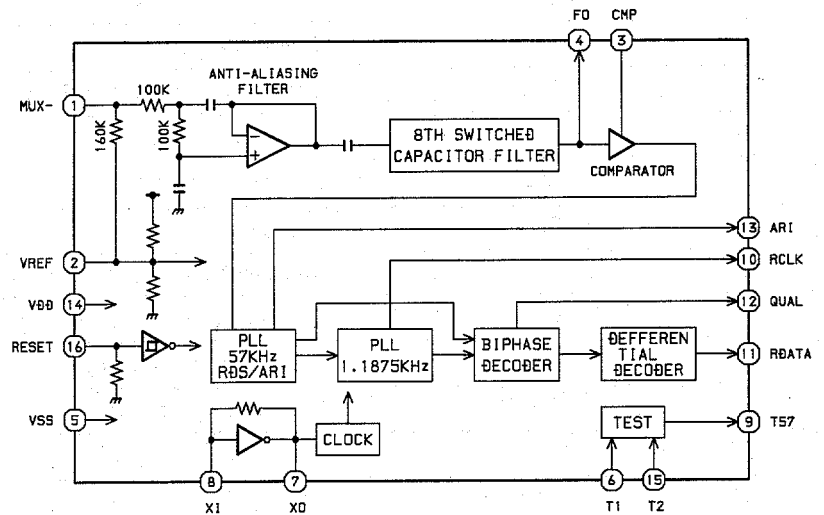
IC, LA1837



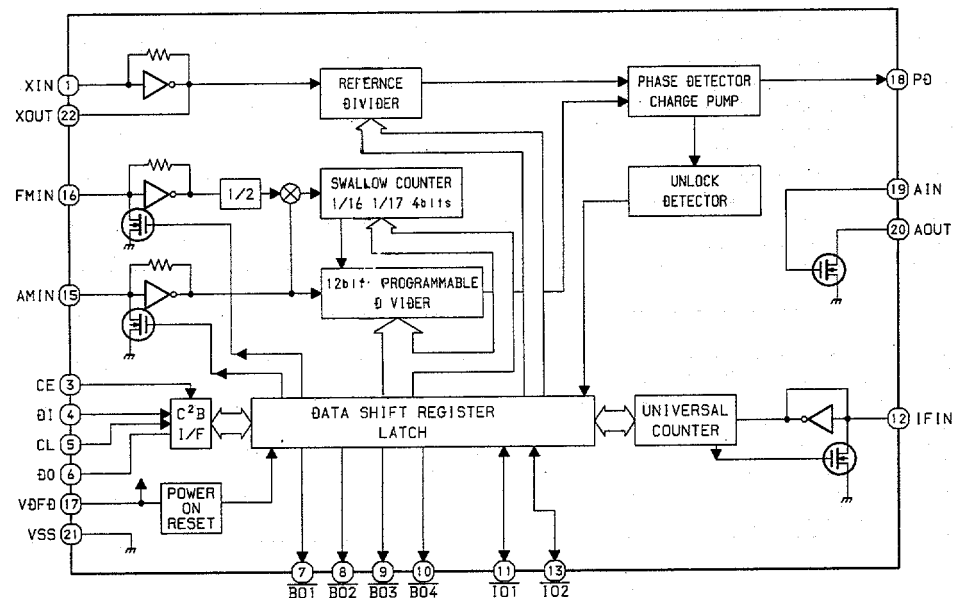
IC, M62439SP



IC, BU1920FS



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.
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.

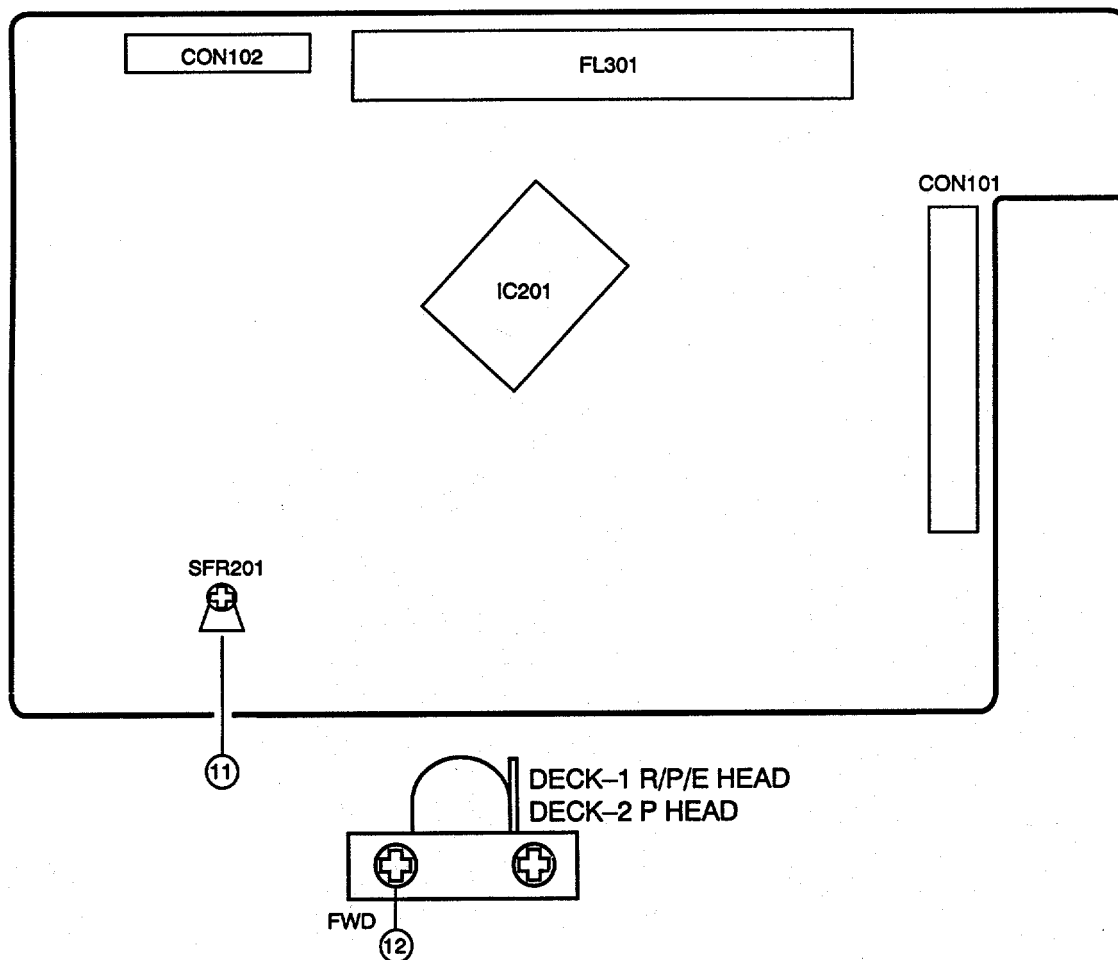
Pin No.	Pin Name	I/O	Description
71	O-DATA(CD)/ RDS_DATA	O	CD data output.
72	SQSO	O	CD SUBQ data output.
73	AVSS	–	Connected to GND.
74	VREF	–	Power supply.
75	I-DRF	I	CD RF level detection input.
76	I-RDS-CLK	I	RDS clock input.
77	O-PLL_CE	O	PLL IC chip enable output.
78	O-PLL_CLK	O	PLL IC clock output.
79	O-DSC/O-PLL DATA	O	Function IC control output / PLL data output.
80	I-TP-SW	I	Cassette deck.

A MAIN C.B



- 34 -

[B] FRONT C.B



10. 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.

< DECK SECTION >

11. 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.

12. 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.

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

14. 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

15. 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 (-20VU) -26dBV. Record and Play back the 1kHz and 8kHz signals so that the output of the 8kHz signal is 0dB +4dB/-6dB.

16. 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 (LH)
(THD 3%) (at 87.5 / 98.0 / 108.0MHz)
Less than 11 / 10 / 10dB (EZ,K)
(at 87.5 / 98.0 / 108.0MHz)
Less than 9dB (V)
(at 70.0MHz)

S/N 50dB Quieting sensitivity :

Less than 38dB (EZ,K)
Less than 35dB (LH,V)
(at 98.0MHz)

Signal to noise ratio : Mono : More than 68dB (98.0MHz)
Stereo: More than 66dB (98.0MHz)

Distortion : Mono : Less than 1.2% (98.0MHz)
Stereo: Less than 2.0% (98.0MHz)

Auto stop level : 25dB ± 10dB

Stereo separation : More than 25dB (LH,V)
More than 12dB (EZ,K)
(at 98.0MHz)

Intermediate frequency : 10.7MHz

<LW SECTION> (EZ,K)

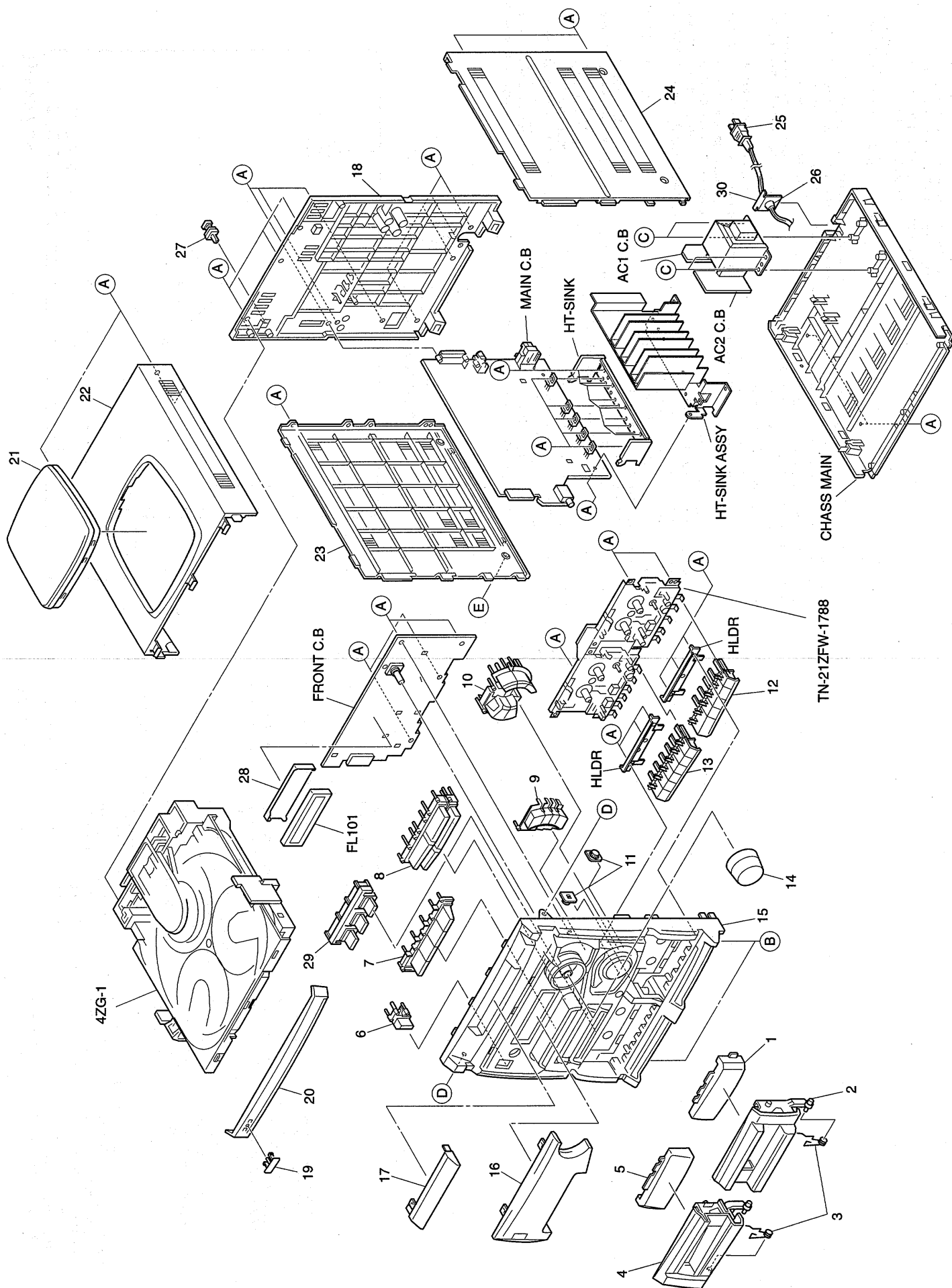
Sensitivity : Less than 70dB (at 144kHz)
Less than 66dB (at 198kHz)
Less than 66dB (at 290kHz)

<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 +10dB / -15dB (at 1000kHz)
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz ± 45Hz
Wow & flutter : Less than 0.35% (W.R.M.S)
Take-up torque : 30 ~ 60g-cm (FWD)
Back tension : 2 ~ 5g-cm
PB output level : 2.8V ± 3dB
REC/PB output level : 1.8V ± 3dB
Distortion (REC/PB) : Less than 2.0% (NORM)
Noise level (PB) : Less than 30mV (NORM)
Noise level (REC/PB) : Less than 30mV (NORM)
Erasing ratio : More than 60dB (at 125Hz, +10VU)
Test tape : TTA-602 (NORMAL)

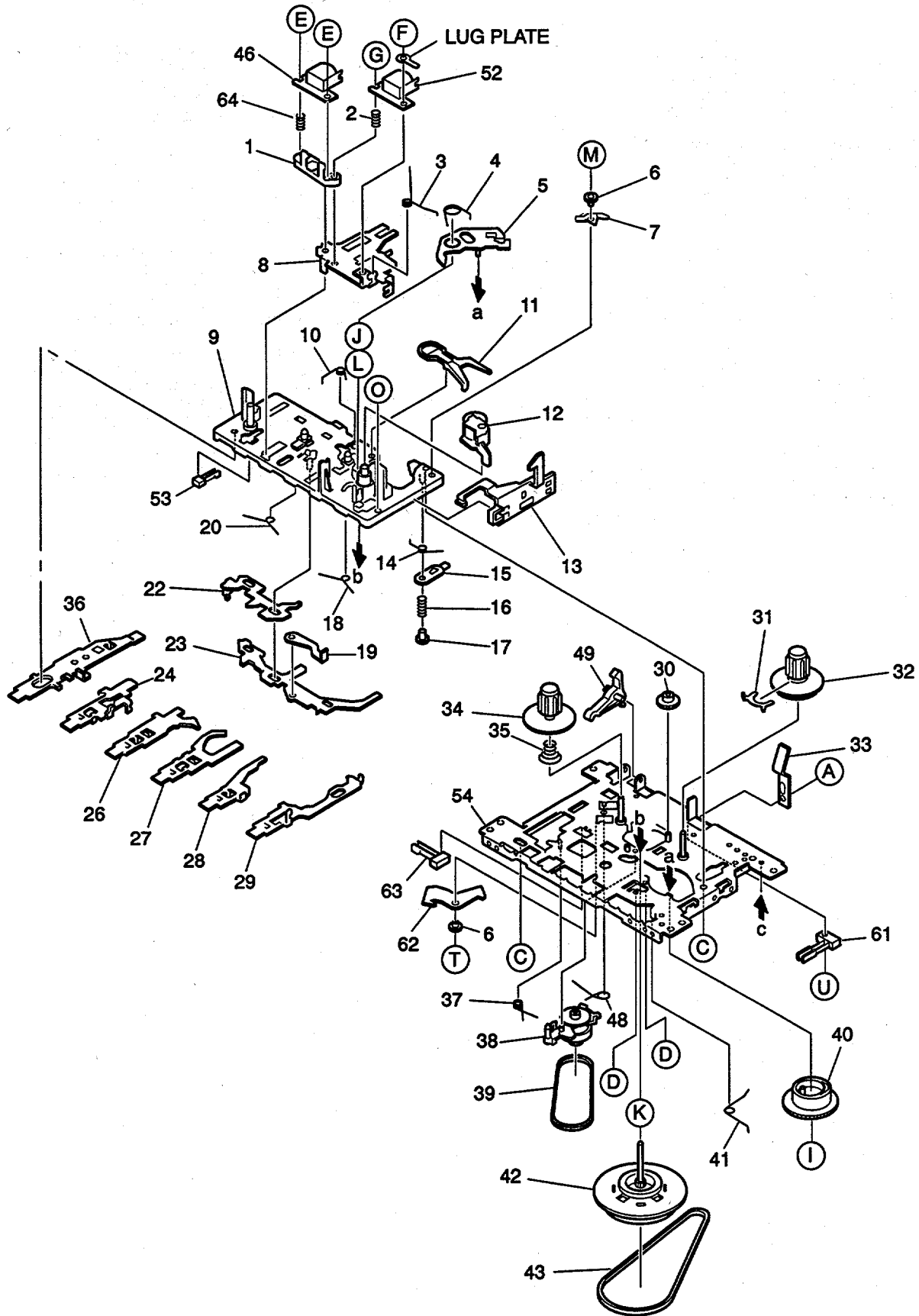


MECHANICAL PARTS LIST 1 / 1

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-NF9-046-010		CABI,REAR VJSTNC<V>
2	88-NF9-004-110		BOX,CASS U2	19	82-NE6-067-010		BADGE,AIWA 30N
3	82-NF7-218-010		SPR-T,CASS	20	88-NF9-018-010		PANEL,TRAY
4	88-NF9-003-110		BOX,CASS U1	21	86-NF2-001-010		WINDOW,TOP
5	88-NF9-015-010		WINDOW,CASS 2	22	87-NF8-045-010		PANEL,TOP ST
6	88-NF9-005-010		KEY,POWER	23	88-NF9-030-010		PANEL,LEFT
7	88-NF9-008-010		KEY,FUN	24	88-NF9-031-010		PANEL,RIGHT<V,LH>
8	88-NF9-011-010		KEY,OPE	24	88-NF9-082-010		PANEL,RIGHT HI<K,EZ>
9	88-NF9-007-010		KEY,GEQ	25	87-A80-007-110		AC CORD ASSY,K BLK<K>
10	88-NF9-006-010		KEY,CD	25	87-050-079-010		AC-CORD ASSY,E<EXCEPT K>
11	86-NF2-231-010		DMPR,70	26	87-085-185-010		BUSHING, AC CORD (E)
12	88-NF9-009-110		KEY,CASS 1	27	84-2G1-245-210		CAP,OPTICAL
13	88-NF9-010-110		KEY,CASS 2	28	82-NF7-210-110		GUIDE,FL
14	88-NF9-012-010		KNOB,RTRY VOL	29	88-NF9-017-010		KEY,RDS<203EZ>
15	88-NF9-022-010		CABI,FR LH<K,V,202EZ>	30	86-NF2-204-010		HLD, BUSHING<V,LH>
15	88-NF9-022-110		CABI,FR LH<LH>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
15	88-NF9-024-010		CABI,FR RDS<203EZ>	B	87-067-758-010		BVT2+3-12 W/O SLOT<V,LH>
16	88-NF9-038-110		WINDOW,DISP K<K,V,202EZ>	B	87-067-688-010		BVT2+3-6<K,EZ>
16	88-NF9-081-110		WINDOW,DISP LHC1<LH>	C	87-078-019-010		S-SCREW,IT4-6<K,EZ>
16	88-NF9-037-110		WINDOW,DISP RDS<203EZ>	C	87-741-172-410		UT2+4-12 W/O SLOT<V,LH>
17	88-NF9-016-010		WINDOW,CD	D	87-721-097-410		QT2+3-12 GLD
18	88-NF9-076-010		CABI,REAR EZSTNM<202EZ>	E	87-067-641-010		UTT2+3-8(W/O SLOT)BL
18	88-NF9-077-010		CABI,REAR EZSTNM RDS<203EZ>				
18	88-NF9-045-010		CABI,REAR KSTNC<K>				
18	88-NF9-057-010		CABI,REAR LHJSC1M<LH>				

TAPE MECHANISM EXPLODED VIEW 1 / 2



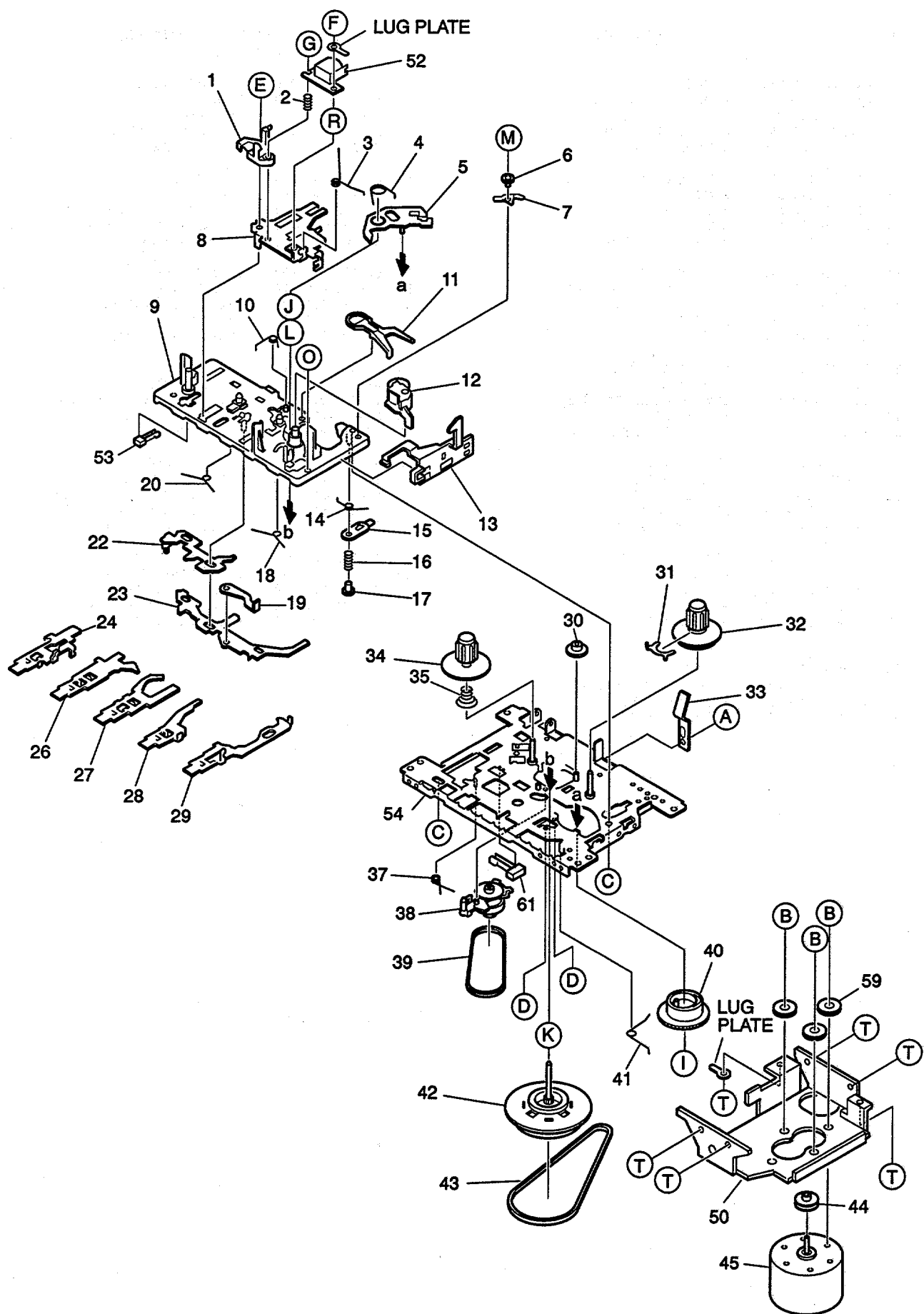
TAPE MECHANISM PARTS LIST 1/2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-060		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-140		HEAD PANEL
9	S1-921-143-170		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-100		PINCH ROLLER ARM ASSY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-550		PAUSE LEVER(E)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-921-140-640		E KICK LEVER
20	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-660		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSOR
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
36	S1-921-140-220		REC BUTTON LEVER
37	S1-921-140-170		P.S.LEVER SPRING

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
38	S1-921-073-080		RF CLUTCH ASSY
39	S1-821-070-110		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-210		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
46	S6-202-140-190		E,HEAD
48	S1-921-140-210		REC BUTTON LEVER SPRING
49	S1-821-100-690		RECORD SAFETY LEVER
52	S6-202-010-920		R.P HEAD MS15R-AK0N1
53	S6-401-011-490		LEAF SW MSW-1541T
54	S1-921-015-010		CHASSIS ASSY
61	S6-401-010-380		LEAF SWITCH MSW-1275
62	S1-921-020-010		REC ARM
63	S6-401-011-610		LEAF SW MSW-17820MVE1
64	S1-821-030-080		EH SPRING
A	S9-P04-200-310		TAPPING SCREW 2-3
C	S9-B10-200-510		P TAPPING BIND ACREW M2-5
D	S9-C07-204-510		SCREW,TAPPING M2-4.5
E	S9-P17-205-710		+CAP SCREW M2-7.5
F	S9-B01-200-310		+ BIND SCREW M2-3
G	S9-F08-200-710		AZIMUTH SCREW M2-7
I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
K	S9-W01-400-100		P WASHER 2-3.5-0.4
L	S9-W01-130-200		P WASHER 2.1-4-0.13
M	S9-P08-203-010		PS TAPPING SCREW M2-5
O	S9-P05-200-610		S TAPPING SCREW M2-6
T	S9-P04-200-410		C TAPPING SCREW M2-4
U	S9-P04-200-510		C TAPPING SCREW M2-5

TAPE MECHANISM EXPLODED VIEW 2 / 2



TAPE MECHANISM PARTS LIST 2/2

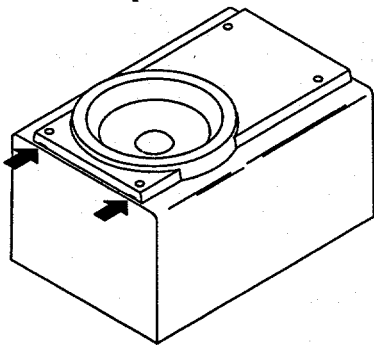
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

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 EGS30YD-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-P08-200-710		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

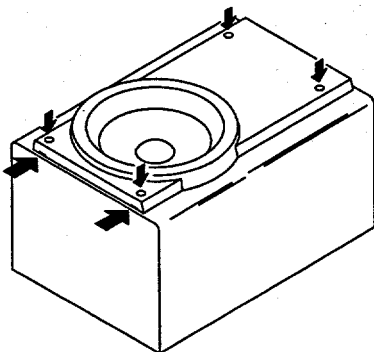
Type.1

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.



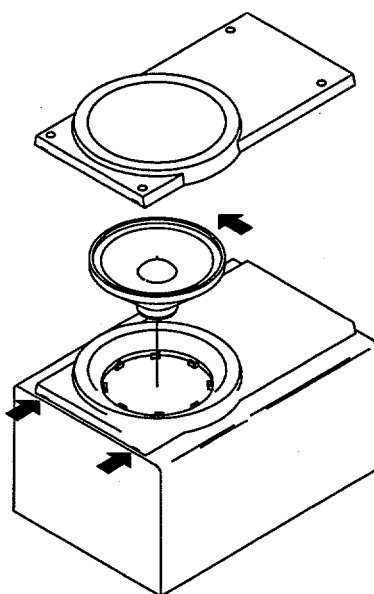
Type.2

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.

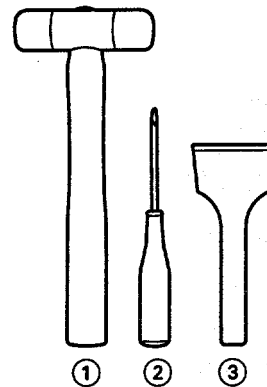


Type.3

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.

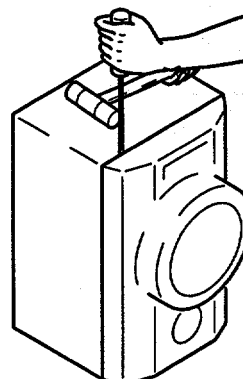


Fig-1

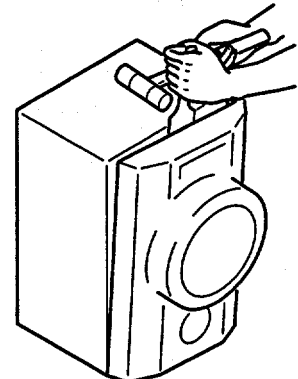


Fig-2

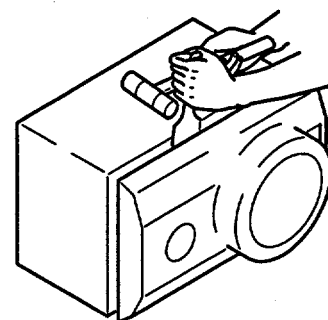


Fig-3

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.

SPEAKER PARTS LIST

(SX-NS202 <YSTNL,YSTNC,YJSTNC,YSTNYI,YSTNY2>)

(SX-SNS202 <YLJSCM>)

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-002-010		PANEL, BA
4	88-NSK-610-010		SPKR, CERAMIC ASSY
5	88-NSK-601-110		SPKR, W 120<YSTNC,YSTNL>
5	88-NSK-603-110		SPKR, W 120<YJSTNC,YLJSCM>
5	88-NSK-604-010		SPKR, W 120<YSTNY1,YSTNY2>

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 SENSOR
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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