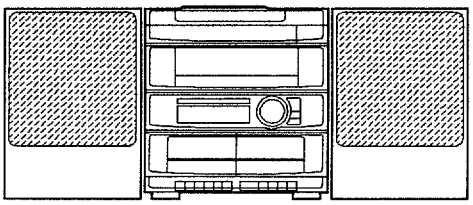
aiwa

aiwa SERVICE

Z-R500
Z-R524
Z-R525

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : TN–21ZSW–1406
- BASIC CD MECHANISM : 6ZG–1 SDFNM
- TYPE: LH<500>, U<524,525>

SYSTEM	SPEAKER	CD – CASSEIVER	REMOTE CONTROLLER
Z-R500 (TYPE : LH)	SX-FZR500	CX–ZR500	RC UNIT,7AS05
Z-R524 (TYPE : U)	SX-ZR525 SX-R240	CX–ZR525	
Z-R525 (TYPE : U)	SX-ZR525		

- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, S/M Code No.09-975-198-00T
- If requiring information about the Speaker, see Service Manual of SX-FZR500/ SX-ZR525/SX-R240,S/M Code No.09-975-200-0FP

S/M Code No. 09–975–188–3FP

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SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	16.2 dBf
Antenna	75 ohms (unbalanced)

<AM tuner section>

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

<Amplifier section>

Power output*	LH: 50 W + 50 W THD less than 10 %, 6 ohms) U: 100 W + 100 W (50 Hz - 20 kHz, THD less than 1 %, 6 ohms) *without connecting to the SURROUND SPEAKERS.
Total Harmonic distortion	LH: 0.15 % (20 W, 1 kHz, 6 ohms) U: 0.15 % (50 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	LH: VIDEO/AUX:150 mV (adjustable) PHONO: 250 mV MIC 1, MIC 2: 1.0 mV (10 kohms) U: VIDEO/AUX:210 mV (adjustable) PHONO: 350 mV MIC 1, MIC 2: 2.4 mV (10 kohms)
Outputs	CD DIGITAL OUT (OPTICAL) LH: SUPER WOOFER: 1.6 V U: SUPER WOOFER: 2.5 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 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	Type I (normal) tape: 50 Hz – 15000 Hz Type II (high/CrO_2) tape: 50 Hz – 16000 Hz
Signal-to-noise ratio	48 dB (high/CrO_2 tape)
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 (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–FZR500>(LH)

Cabinet type	3 way, bass reflex with surround speaker
Speakers	Woofer: 220 mm ($8^3/_4$ in.) cone type Tweeter: 80mm ($3^1/_4$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type Surround speaker: 80mm ($3^1/_4$ in.) cone type
Impedance	Front speaker: 6 ohms Surrond speaker: 16 ohms
Output sound pressure level	90 dB/W/m
Dimensions (W x H x D)	270 x 444 x 265 mm ($10^3/_4$ x $17^1/_2$ x $10^1/_2$ in.)
Weight	5.3 kg (11 lbs 11 oz.)

<Speaker system SX–ZR525> (U)

Cabinet type	3 way, bass reflex
Speakers	Woofer: 220 mm ($8^3/_4$ in.) cone type Tweeter: 60mm ($2^3/_8$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	260 x 444 x 275 mm ($10^1/_4$ x $17^1/_2$ x $10^7/_8$ in.)
Weight	4.6 kg (10 lbs 2 oz.)

<General>

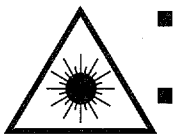
Power requirements	LH: 120 V/220-230 V/240 V AC, (switchable) 50/60 Hz U: 120 V AC, 60 Hz
Power consumption	LH: 105 W U: 115 W
Dimensions of main unit (W x H x D)	360 x 393 x 382 mm ($14^1/_4$ x $15^1/_2$ x $15^1/_8$ in.)
Weight of main unit	LH: 9 kg (19 lbs 13 oz.) U: 9.2 kg (20 lbs 5 oz.)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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



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

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

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

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

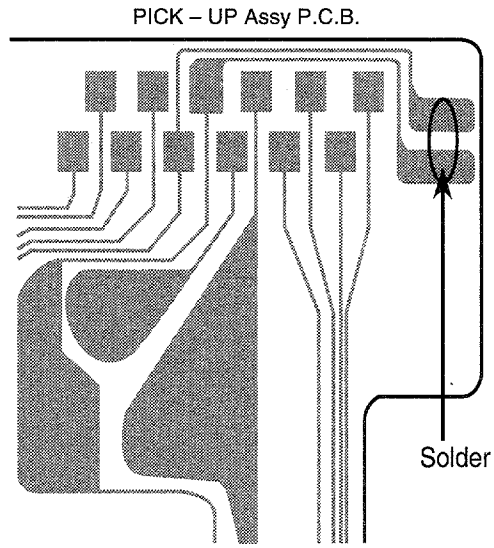
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use the clothes do not touch the diode.

1) After the connection, remove solder shown in figure below.



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-MA7-651-010		C-IC,LC866556W-5E47
	87-A20-593-010		IC,SPS-442-1-A
	87-A20-501-040		C-IC,BA7762FS
	87-A20-083-010		IC,BA3835S
	87-017-888-080		C-IC,NJM4558MD
	87-A20-456-040		C-IC,BH3810FS
	87-A20-451-040		C-IC,BU9262FS<LH>
	87-A20-450-040		C-IC,BH3864F
	87-070-127-110		IC,LC72131D
	87-A20-438-010		IC,LA1837
TRANSISTOR			
	89-213-702-010		TR,2SB1370E
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-083-080		TR,CSD1489B
	87-A30-075-080		C-TR,2SA1235F
	87-026-609-080		TR,KTA1266GR
	87-A30-086-080		C-TR,CSD1306E
	87-A30-106-080		C-TR,CMBT5551
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	89-327-143-080		C-TR,2SC2714(O)
	87-A40-269-080		C-TR,RN1410
DIODE			
	87-017-447-010		DIODE,GBU4DL-6419<LH>
	87-A40-115-060		DIODE,R5603M<U>
	87-017-437-080		DIODE,1N4148M
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-341-080		ZENER,MTZJ36A
	87-A40-246-080		DIODE,1N4148T-72
	87-A40-345-080		ZENER,MTZJ10C
	87-017-932-080		ZENER,MTZJ6.2B
	87-070-178-090		DIODE,1N5402-BD54
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-003-080		ZENER,MTZJ4.3A
	87-017-931-080		ZENER,MTZJ5.6B<LH>
	87-A40-234-080		ZENER,MTZJ5.6A
MAIN C.B			
	87-NF7-640-010		CONN ASSY,8P-RPB
	88-906-221-110		FF-CABLE,6P 1.25
⚠ C101	87-016-043-090		CAP,E 3300-50 M VR<LH>
⚠ C101	87-A10-059-090		CAP,E 3300-75<U>
⚠ C102	87-016-043-090		CAP,E 3300-50 M VR<LH>
⚠ C102	87-A10-059-090		CAP,E 3300-75<U>
⚠ C103	87-010-453-090		CAP,E 4700-25 M<LH>
⚠ C103	87-A10-056-090		CAP,E 4700-35 M<U>
⚠ C104	87-010-453-090		CAP,E 4700-25 M<LH>
⚠ C104	87-A10-056-090		CAP,E 4700-35 M<U>
C105	87-012-368-080		C-CAP,S 0.1-50 Z F
C106	87-012-368-080		C-CAP,S 0.1-50 Z F
C107	87-012-368-080		C-CAP,S 0.1-50 Z F
C108	87-012-368-080		C-CAP,S 0.1-50 Z F
C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-010-406-080		CAP,E 22-50 M SME
C116	87-010-406-080		CAP,E 22-50 M SME
C117	87-010-430-080		CAP,E 100-63 SME
C118	87-010-263-080		CAP,E 100-10 SME
C119	87-010-260-080		CAP,E 47-25 SME
C120	87-010-403-080		CAP,E 3.3-50 M SME
C121	87-012-140-080		C-CAP,S 470P-50 J CH
C122	87-010-263-080		CAP,E 100-10 SME<U>
C123	87-010-382-080		CAP,E 22-25 M SME
C124	87-010-112-080		CAP,E 100-16 M SME
C125	87-010-235-080		CAP,E 470-16 SME
C129	87-010-393-080		CAP,E 100-35 M SME
C201	87-010-256-080		CAP,E 0.68-50 7L SRA
C202	87-010-256-080		CAP,E 0.68-50 7L SRA
C205	87-010-183-010		C-CAP,S 2700P-50 K B GRM<LH>
C205	87-010-184-080		C-CAP,S 3300P-50 K B GRM<U>
C206	87-010-183-010		C-CAP,S 2700P-50 K B GRM<LH>
C206	87-010-184-080		C-CAP,S 3300P-50 K B GRM<U>
C207	87-010-404-080		CAP,E 4.7-50 M SME
C208	87-010-404-080		CAP,E 4.7-50 M SME
C209	87-010-404-080		CAP,E 4.7-50 M SME
C210	87-010-404-080		CAP,E 4.7-50 M SME
C211	87-010-186-080		C-CAP,S 4700P-50 K B
C212	87-010-186-080		C-CAP,S 4700P-50 K B
C213	87-010-260-080		CAP,E 47-25 SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C219	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C220	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C221	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C222	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C223	87-010-194-080		C-CAP,S 0.047-25 Z F
C225	87-010-322-080		C-CAP,S 100P-50 J CH<LH>
C225	87-A10-516-080		C-CAP,S 100P-200 J C<U>
C226	87-010-322-080		C-CAP,S 100P-50 J CH<LH>
C226	87-A10-516-080		C-CAP,S 100P-200 J C<U>
C233	87-010-318-080		C-CAP,S 47P-50 J CH
C234	87-010-318-080		C-CAP,S 47P-50 J CH
C242	87-010-405-080		CAP,E 10-50 M SME<LH>
C242	87-010-406-080		CAP,E 22-50 M SME<U>
C243	87-010-197-080		C-CAP,S 0.01-25 K B
C301	87-010-318-080		C-CAP,S 47P-50 J CH
C302	87-010-318-080		C-CAP,S 47P-50 J CH
C303	87-012-145-080		C-CAP,S 270P-50 J CH
C304	87-012-145-080		C-CAP,S 270P-50 J CH
C305	87-012-155-080		C-CAP,S 180P-50 J CH
C306	87-012-155-080		C-CAP,S 180P-50 J CH
C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C311	87-010-198-080		C-CAP,S 0.022-25 K B
C312	87-010-198-080		C-CAP,S 0.022-25 K B
C313	87-010-180-080		C-CAP,S 1500P-50 K B
C314	87-010-180-080		C-CAP,S 1500P-50 K B
C315	87-010-179-080		C-CAP,S 1200P-50 K B
C316	87-010-179-080		C-CAP,S 1200P-50 K B
C321	87-012-142-080		C-CAP,S 0.33-16 Z F
C322	87-012-142-080		C-CAP,S 0.33-16 Z F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 M SME
C327	87-010-404-080		CAP,E 4.7-50 M SME
C328	87-010-404-080		CAP,E 4.7-50 M SME
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C335	87-010-401-080		CAP,E 1-50 M SME
C336	87-010-401-080		CAP,E 1-50 M SME
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012

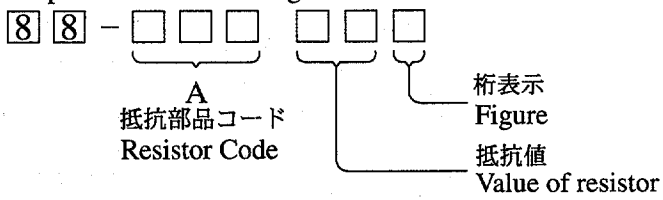
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C351	87-012-140-080		C-CAP,S 470P-50 J CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL<U>
C355	87-010-178-080		C-CAP,S 1000P-50 K B<U>
C356	87-010-260-080		CAP,E 47-25 SME
C357	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B
C360	87-010-183-080		C-CAP,S 2700P-50 K B
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C373	87-010-197-080		C-CAP,S 0.01-25 K B
C374	87-010-197-080		C-CAP,S 0.01-25 K B
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C379	87-010-382-080		CAP,E 22-25 M SME
C380	87-010-382-080		CAP,E 22-25 M SME
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C388	87-010-154-080		C-CAP,S 10P-50 D CH
C421	87-010-401-080		CAP,E 1-50 M SME
C422	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C611	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C615	87-010-183-080		C-CAP,S 2700P-50 K B
C619	87-010-263-080		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-263-080		CAP,E 100-10 SME
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C623	87-010-194-080		C-CAP,S 0.047-25 Z F
C629	87-010-196-080		C-CAP,S 0.1-25 Z F
C646	87-010-322-080		C-CAP,S 100P-50 J CH
C647	87-010-322-080		C-CAP,S 100P-50 J CH
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 M SME
C703	87-010-197-080		C-CAP,S 0.01-25 K B
C704	87-010-197-080		C-CAP,S 0.01-25 K B
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C713	87-010-197-080		C-CAP,S 0.01-25 K B
C714	87-010-197-080		C-CAP,S 0.01-25 K B
C721	87-010-312-080		C-CAP,S 15P-50 J CH
C722	87-010-312-080		C-CAP,S 15P-50 J CH
C723	87-010-178-080		C-CAP,S 1000P-50 K B
C725	87-010-178-080		C-CAP,S 1000P-50 K B
C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C728	87-010-248-080		CAP,E 220-10 SME
C755	87-010-197-080		C-CAP,S 0.01-25 K B
C756	87-010-197-080		C- CAP,S 0.01-25 K B
C757	87-010-318-080		C-CAP,S 47P-50 J CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C762	87-010-197-080		C-CAP,S 0.01-25 K B
C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C765	87-010-197-080		C-CAP,S 0.01-25 K B
C766	87-010-197-080		C-CAP,S 0.01-25 K B
C767	87-010-405-080		CAP,E 10-50 M SME
C768	87-010-197-080		C-CAP,S 0.01-25 K B
C769	87-010-408-080		CAP,E 47-50 SME
C770	87-015-835-080		C-CAP,0.047-50 K B
C771	87-010-407-080		CAP,E 33-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-404-080		CAP,E 4.7-50 M SME
C776	87-010-197-080		C-CAP,S 0.01-25 K B
C777	87-010-400-080		CAP,E 0.47-50 M SME
C778	87-010-401-080		CAP,E 1-50 M SME
C779	87-010-401-080		CAP,E 1-50 M SME
C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C781	87-010-405-080		CAP,E 10-50 M SME
C782	87-010-405-080		CAP,E 10-50 M SME
C783	87-015-819-080		C-CAP,0.01-50 K B
C784	87-010-197-080		C-CAP,S 0.01-25 K B
C785	87-010-400-080		CAP,E 0.47-50 M SME<LH>
C785	87-010-401-080		CAP,E 1-50 M SME<U>
C786	87-010-400-080		CAP,E 0.47-50 M SME<LH>
C786	87-010-401-080		CAP,E 1-50 M SME<U>
C787	87-010-184-080		C-CAP,S 3300P-50 K B
C788	87-010-184-080		C-CAP,S 3300P-50 K B
C789	87-010-179-080		C-CAP,S 1200P-50 K B
C790	87-010-179-080		C-CAP,S 1200P-50 K B
C791	87-010-405-080		CAP,E 10-50 M SME
C793	87-010-178-080		C-CAP,S 1000P-50 K B
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 K R
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-182-080		C-CAP,S 2200P-50 K B
C798	87-010-182-080		C-CAP,S 2200P-50 K B
C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C812	87-010-197-080		C-CAP,S 0.01-25 K B
C813	87-010-197-080		C-CAP,S 0.01-25 K B
C814	87-010-197-080		C-CAP,S 0.01-25 K B
C815	87-010-197-080		C-CAP,S 0.01-25 K B
C816	87-010-197-080		C-CAP,S 0.01-25 K B
C819	87-010-197-080		C-CAP,S 0.01-25 K B
C820	87-010-408-080		CAP,E 47-50 SME
C821	87-010-197-080		C-CAP,S 0.01-25 K B
C822	87-010-197-080		C-CAP,S 0.01-25 K B
C823	87-010-197-080		C-CAP,S 0.01-25 K B
C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C961	87-010-152-080		C-CAP,S 8P-50 D CH
CF801	87-008-261-010		FLTR,CFSFE10.7MA5
CF802	87-008-261-010		FLTR,CFSFE10.7MA5
⚠ F201	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F202	87-026-691-080		FUSE,10A 125V 251<U>
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM
J252	87-A60-024-010		JACK,DIA6.3 BLK ST W/SW KM
J253	87-099-474-010		JACK,PIN 3P BLK W/SW
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-419-010		JACK,PIN 4P R/W W/O SW
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L601	87-003-231-080		C-COIL,2125 1 UH K ML
L644	83-XM1-617-080		C-COIL,BK2125 HM601<U>
L770	87-005-849-080		COIL,10UH K CECS
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)
L832	87-005-847-080		COIL,2.2UH K CECS
L981	87-NF4-650-010		COIL,AM PACK4N(TOK)
⚠ PR201	87-026-681-080		PROTECTOR,5A 491 SERIES<LH>
⚠ PR202	87-026-681-080		PROTECTOR,5A 491 SERIES<LH>
R123	87-022-200-080		RES,M/F 0.56-1 W J<U>
R229	87-A00-257-080		RES,M/F 0.15-1W J<LH>
R230	87-A00-257-080		RES,M/F 0.15-1W J<LH>
R231	87-A00-262-080		RES,M/F 0.15-2W J<U>
R232	87-A00-262-080		RES,M/F 0.15-2W J<U>
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L<LH>
SFR301	87-024-438-080		SFR,220K H RH063MC
SFR302	87-024-438-080		SFR,220K H RH063MC
SFR303	87-024-438-080		SFR,220K H RH063MC
SFR304	87-024-438-080		SFR,220K H RH063MC
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
TH201	87-A90-221-080		C-THMS,100K<LH>
TH202	87-A90-221-080		C-THMS,100K<LH>
W001	84-MA1-683-110		F-CABLE,7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
FRONT C.B			
	85-MA7-611-010		CONN ASSY,10P,MECHA
	88-914-231-110		FF-CABLE,14P 1.25 230 MM
C101	87-010-404-080		CAP,E 4.7-50 M SME
C102	87-010-404-080		CAP,E 4.7-50 M SME
C103	87-010-408-080		CAP,E 47-50 SME
C104	87-018-208-080		CAP,TC U 0.047-50 Z F UP050
C151	87-010-401-080		CAP,E 1-50 M SME
C152	87-010-178-080		C-CAP,S 1000P-50 K B
C153	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C160	87-010-401-080		CAP,E 1-50 M SME
C162	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C163	87-010-400-080		CAP,E 0.47-50 M SME
C173	87-010-316-080		C-CAP,S 33P-50 J CH
C174	87-010-194-080		C-CAP,S 0.047-25 Z F
C175	87-010-320-080		C-CAP,S 68P-50 J CH
C176	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C178	87-010-198-080		C-CAP,S 0.022-25 K B
C179	87-010-198-080		C-CAP,S 0.022-25 K B
C180	87-010-312-080		C-CAP,S 15P-50 J CH
C191	87-010-405-080		CAP,E 10-50 M SME
C192	87-010-178-080		C-CAP,S 1000P-50 K B<LH>
C192	87-012-145-080		C-CAP,S 270P-50 CH<U>
C193	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C201	87-010-263-080		CAP,E 100-10 SME
C202	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C203	87-010-248-080		CAP,E 220-10 SME
C401	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C402	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C403	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C404	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C405	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C406	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C407	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C501	87-010-382-080		CAP,E 22-25 M SME
C502	87-010-384-080		CAP,E 100-25 M SME
C601	87-010-405-040		CAP,E 10-50 M SME
C602	87-010-186-080		C-CAP,S 4700P-50 K B
C603	87-010-405-040		CAP,E 10-50 M SME
C604	87-010-382-080		CAP,E 22-25 M SME
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C606	87-010-248-040		CAP,E 220-10 M SME
C607	87-010-545-040		CAP,E 0.22-50 M SME
C608	87-010-322-080		C-CAP,S 100P-50 J CH
C609	87-010-321-080		C-CAP,S 82P-50 J CH
C610	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C612	87-010-176-080		C-CAP,S 680P-50 J SL
C613	87-010-322-080		C-CAP,S 100P-50 J CH
C614	87-010-177-080		C-CAP,S 820P-50 J SL
C651	87-010-183-080		C-CAP,S 2700P-50 K B<LH>
C652	87-010-183-080		C-CAP,S 2700P-50 K B<LH>
C653	87-010-401-040		CAP,E 1-50 M SME<LH>
C654	87-010-401-040		CAP,E 1-50 M SME<LH>
C655	87-010-374-080		CAP,E 47-10 M SME<LH>
C656	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<LH>
C657	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<LH>
C658	87-010-181-080		C-CAP,S 1800P-50 K B<LH>
C659	87-010-197-080		C-CAP,S 0.01-25 K B<LH>
C660	87-010-213-080		C-CAP,S 0.015-25 K B<LH>
C661	87-010-213-080		C-CAP,S 0.015-25 K B<LH>
C662	87-010-180-080		C-CAP,S 1500P-50 K B<LH>
C663	87-010-197-080		C-CAP,S 0.01-25 K B<LH>
C664	87-012-393-080		C-CAP,S 0.22-16 K W5R<LH>
C665	87-010-319-080		C-CAP,S 56P-50 J CH<LH>
C666	87-010-319-080		C-CAP,S 56P-50 J CH<LH>
C670	87-010-263-040		CAP,E 100-10 M SME<LH>
C671	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<LH>
C701	87-010-260-080		CAP,E 47-25 SME
C702	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C703	87-010-374-080		CAP,E 47-10 M SME
C704	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C705	87-010-401-080		CAP,E 1-50 M SME
C706	87-010-184-080		C-CAP,S 3300P-50 K B
C707	87-010-592-080		C-CAP,S 0.022-16 K R
C708	87-016-463-080		C-CAP, 0.33-16 K B C3216
C709	87-016-081-080		C-CAP,S 0.1-16 K R
C710	87-016-463-080		C-CAP, 0.33-16 K B C3216
C711	87-010-592-080		C-CAP,S 0.022-16 K R
C712	87-010-405-080		CAP,E 10-50 M SME
C713	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C714	87-010-184-080		C-CAP,S 3300P-50 K B
C715	87-010-401-080		CAP,E 1-50 M SME
C716	87-010-992-080		C-CAP,S 0.047-25 K B MK212
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FL101	87-MA7-655-010		FL,BJ543GK
J601	87-099-659-010		JACK,6.3 0
J602	87-099-659-010		JACK,6.3 0
L651	87-005-448-080		COIL,220UH K FLR50<LH>
LED241	87-017-733-080		LED,SEL1250SMTPS
LED242	87-017-733-080		LED,SEL1250SMTPS
LED243	87-017-733-080		LED,SEL1250SMTPS
LED244	87-017-733-080		LED,SEL1250SMTPS
LED245	87-017-733-080		LED,SEL1250SMTPS
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S317	87-A90-095-080		SW,TACT EVQ11G04M
S318	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S331	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S332	87-A90-095-080		SW,TACT EVQ11G04M
S333	87-A90-095-080		SW,TACT EVQ11G04M
S334	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S335	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S336	87-A90-095-080		SW,TACT EVQ11G04M<LH>
SFR501	87-024-169-080		SFR,2.2K H RH0638C
SW190	87-A90-461-010		SW,RTRY EVQVBCFK124B
VR601	87-MA7-750-010		VR,SL 10KA<U>
X171	87-A70-070-080		VIB,CER 5.76MHZ CRHF
CD KEY C.B			
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A90-095-080		SW,TACT EVQ11G04M

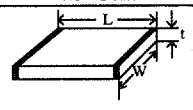
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
AC1 C.B			
⚠ F101	87-035-190-010		FUSE,2A 250V T 218<LH>
⚠ F101	87-035-490-010		FUSE,5A 125V T 237<U>
⚠ FC001	87-033-147-010		FUSE CLAMP,MT20<LH>
⚠ FC1	87-A90-505-080		FUSE CLAMP,PT00351<U>
⚠ FC002	87-033-147-010		FUSE CLAMP,MT20<LH>
⚠ FC2	87-033-213-010		FUSE CLAMP,PT00351<U>
⚠ PT101	87-MA7-647-010		PT,7MA7 LH<LH>
⚠ PT101	87-MA7-646-010		PT,7MA7 U<U>
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
⚠ T001	82-304-743-010		TERMINAL,1P<LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC<U>
⚠ T002	82-304-743-010		TERMINAL,1P<LH>
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC<U>
AC2 C.B			
⚠ F1	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F2	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F5	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F6	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR001	87-026-682-080		PROTECTOR,10A 491SERIES<LH>
⚠ PR002	87-026-682-080		PROTECTOR,10A 491SERIES<LH>
⚠ PR005	87-026-682-080		PROTECTOR,10A 491SERIES<LH>
⚠ PR006	87-026-682-080		PROTECTOR,10A 491SERIES<LH>

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

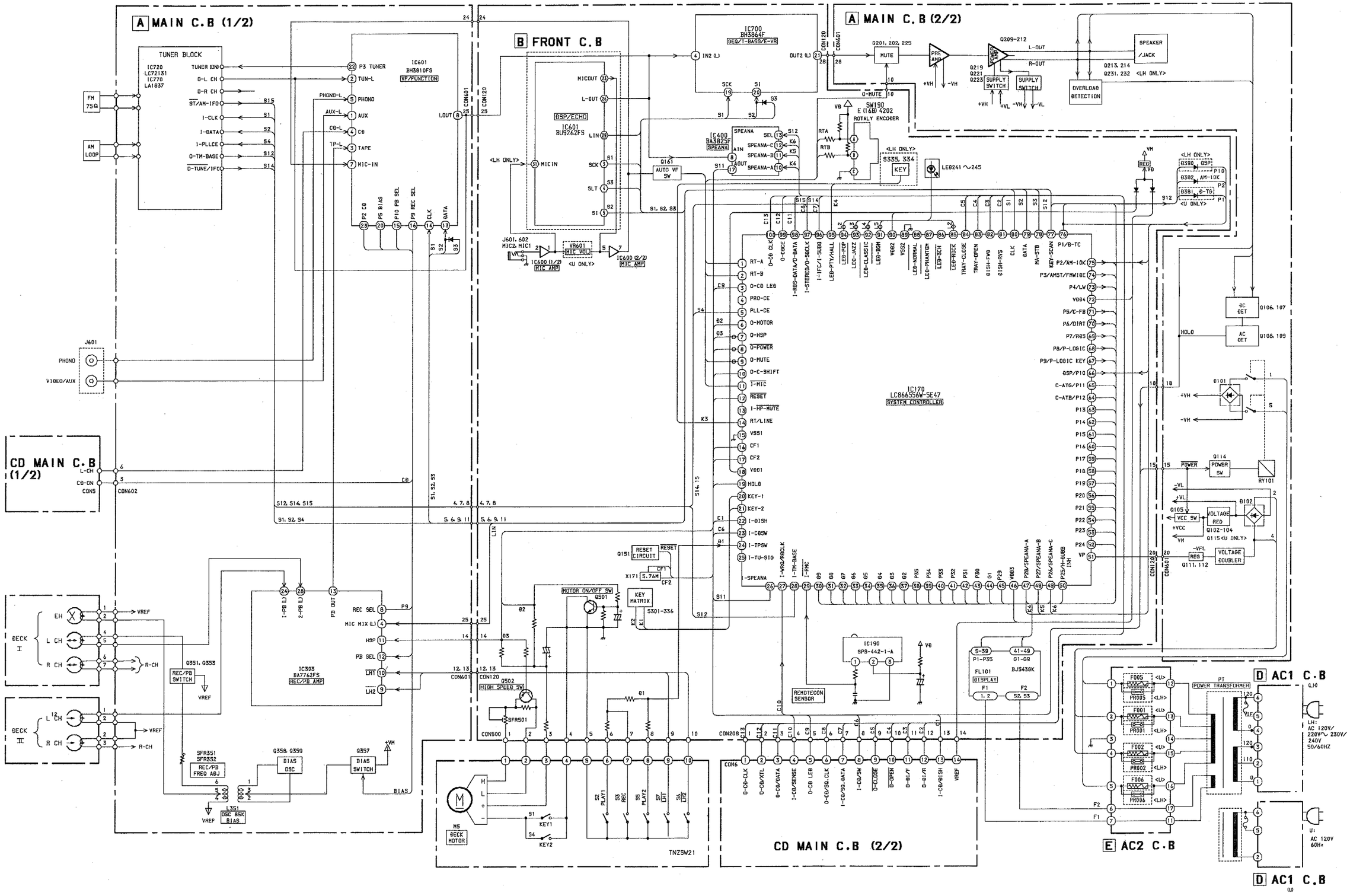
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

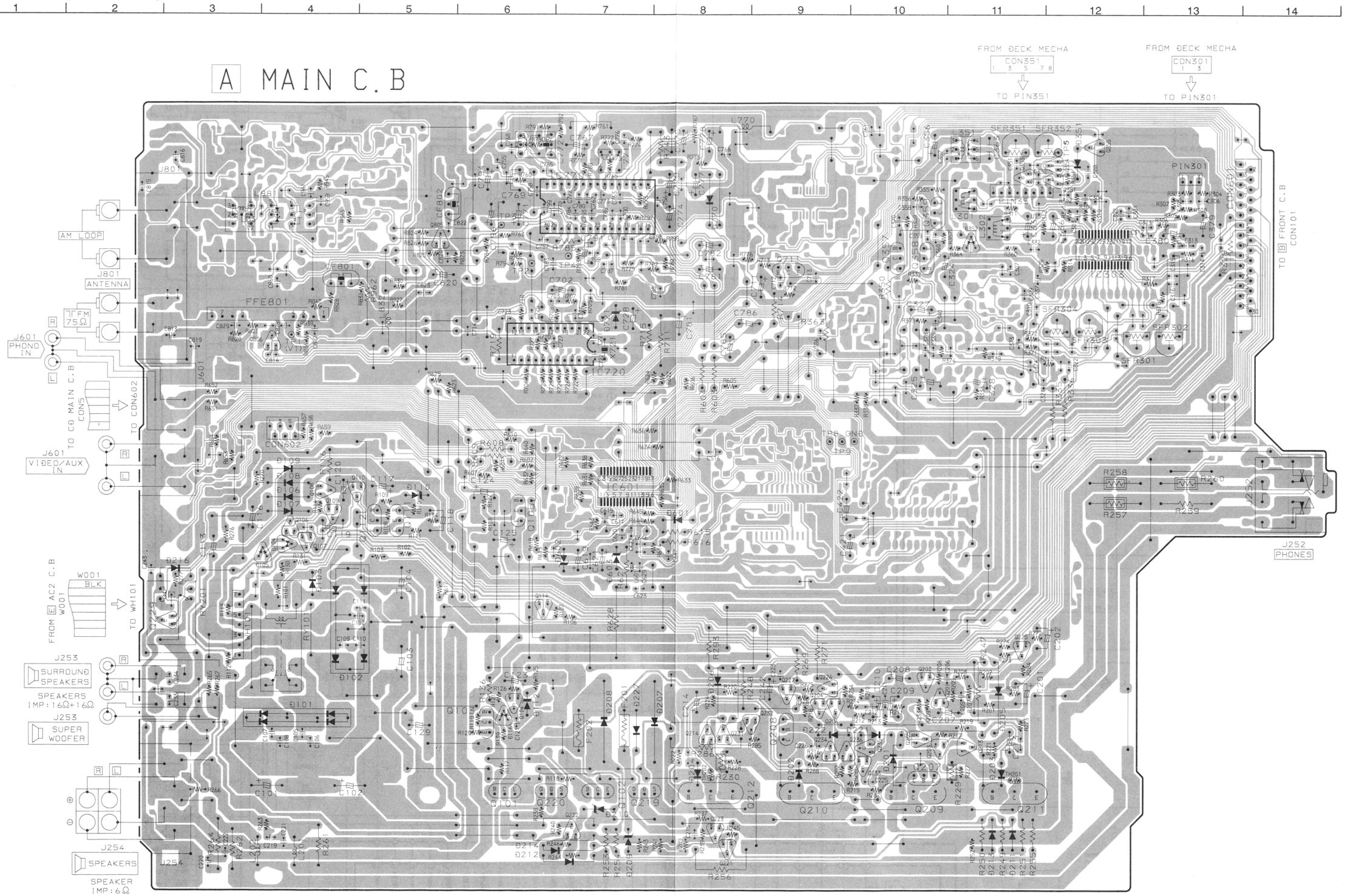
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

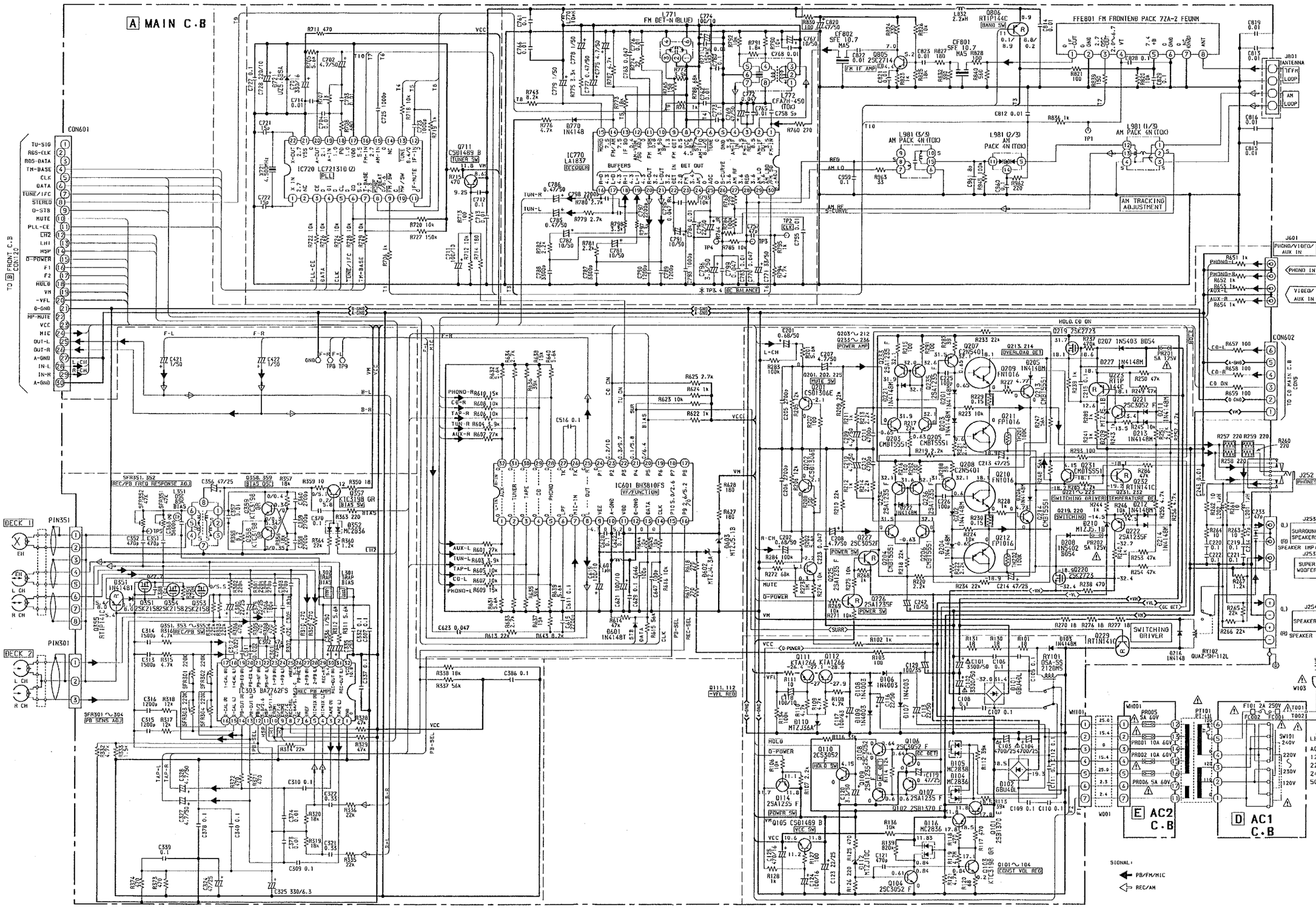
BLOCK DIAGRAM (MAIN / FRONT)

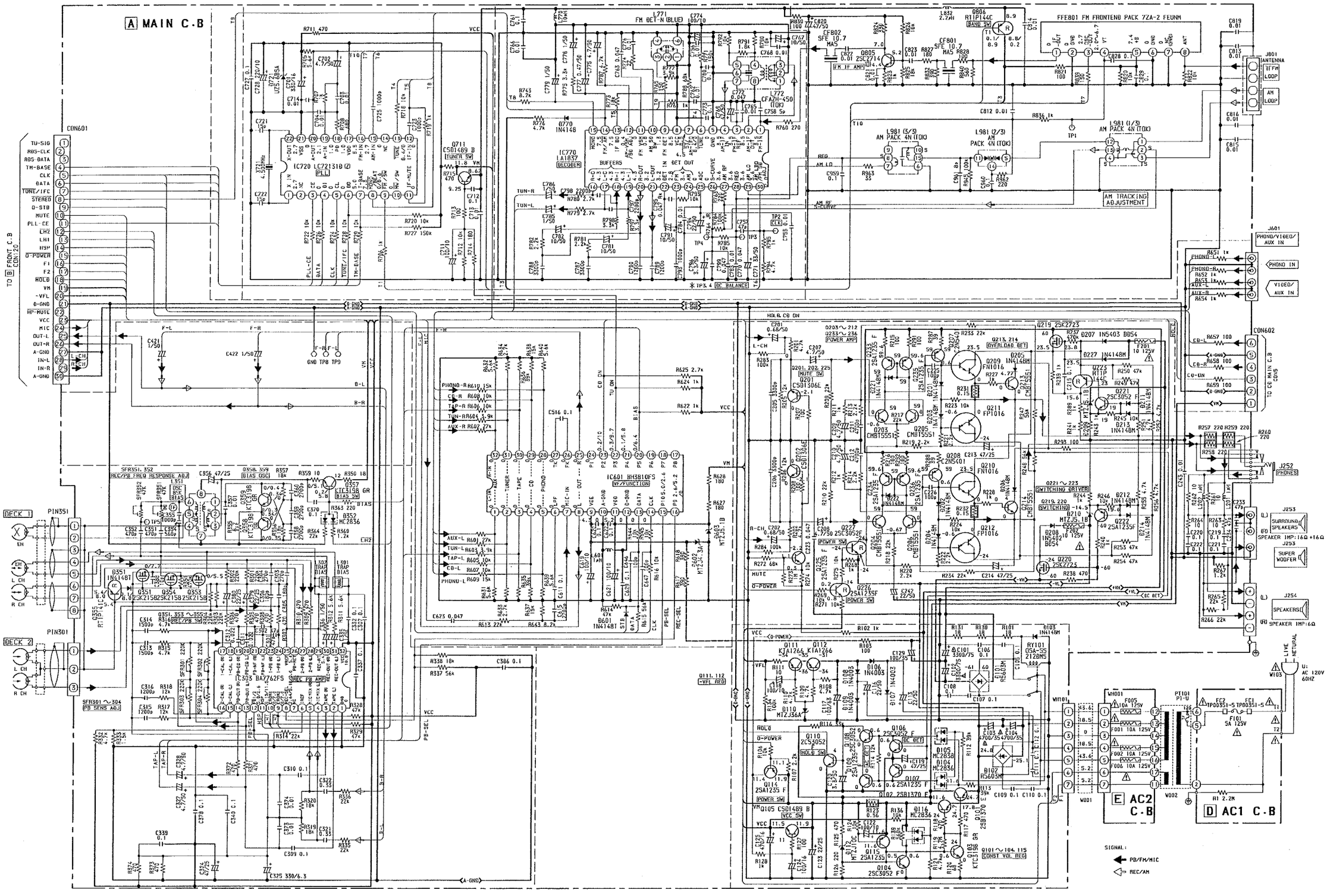


WIRING – 1 (MAIN : LH)

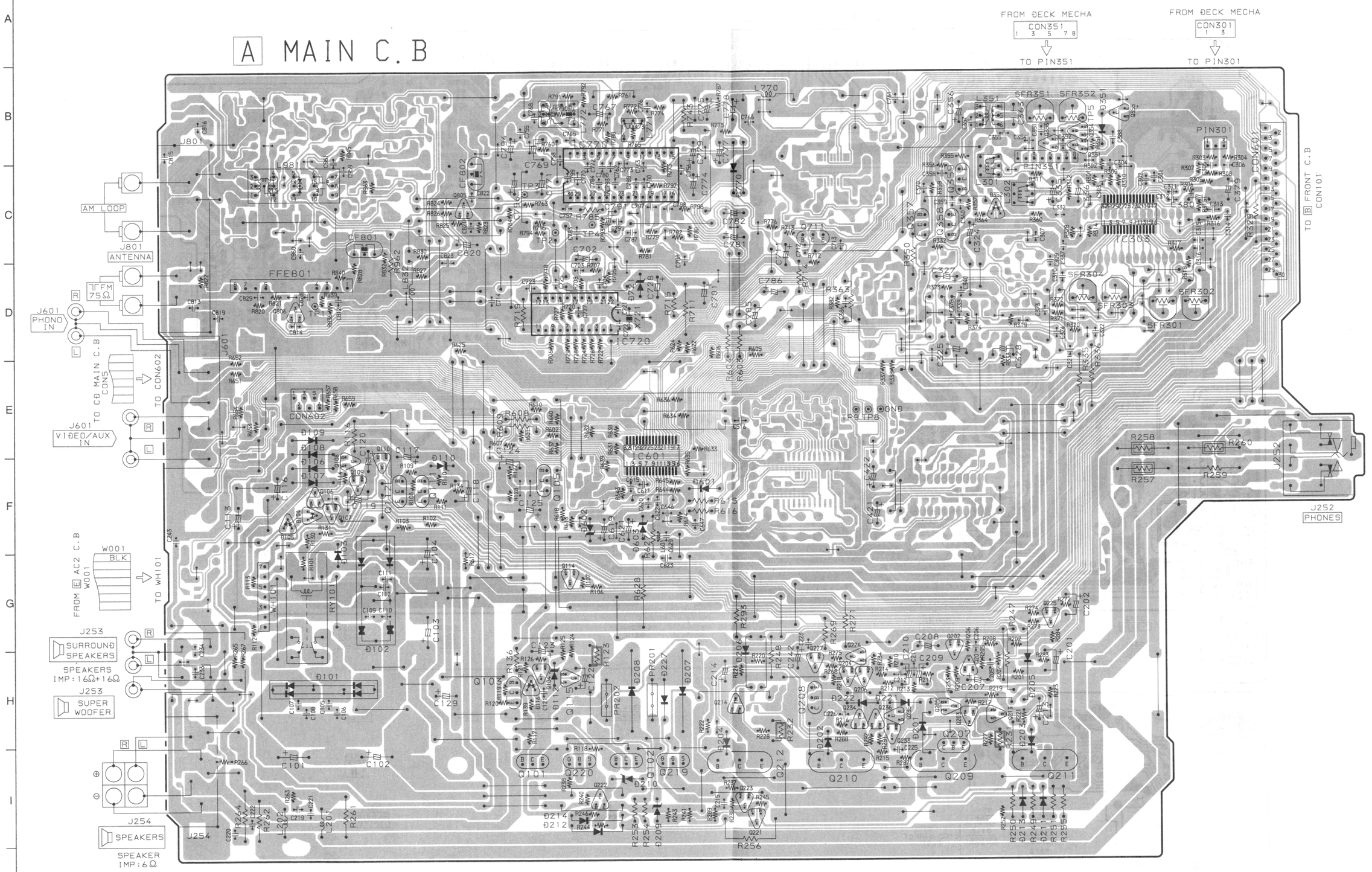
A MAIN C.B



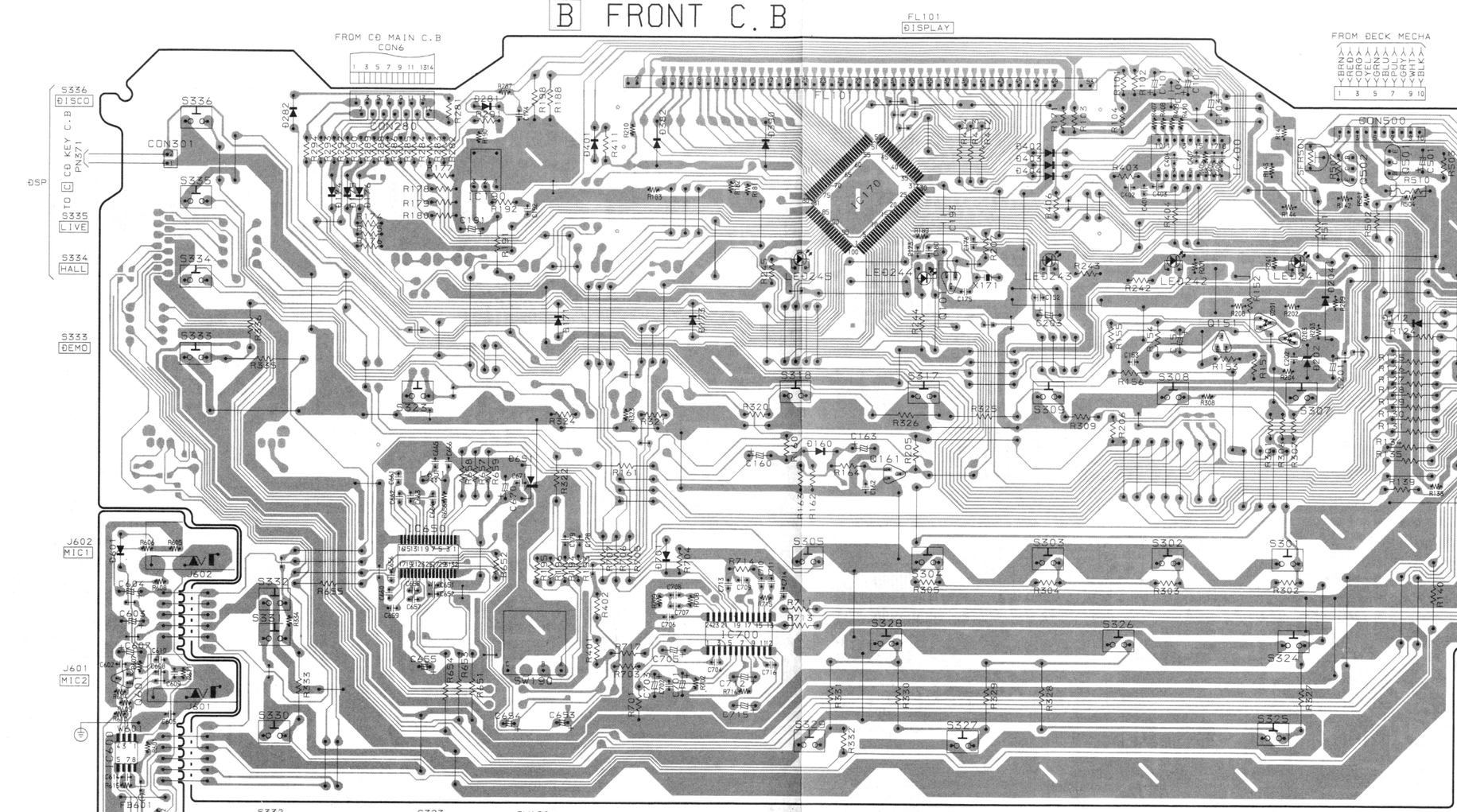

A MAIN C.B
CON601
TO B FRONT C.B
CON120
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
O-STB
MUTE
PLL-CE
CH2
LH1
HSP
O-POWER
F1
F2
HOLD
VM
-VFL
D-GND
MP-MUTE
VCC
MIC
OUT-L
OUT-R
A-GND
IN-L
IN-R
A-GND
IC720 LC721310 (Z)
PLL
IC770 LA1837
DECODER
BUFFERS
BET OUT
Q711 C5011489 B
TUNER SW
L771
FM DET-N (BLUE)
CF802 SFE 10.7 MAS
CF801 SFE 10.7 MAS
Q806 RT1P144C
BAND SW
FFE801 FM FRONTEND PACK 7ZA-2 FEUNM
L981 (3/3) AM PACK 4N (TOK)
L981 (2/3) AM PACK 4N (TOK)
L981 (1/3) AM PACK 4N (TOK)
AM TRACKING ADJUSTMENT
J801 ANTENNA
TFM
LOOP
AM
LOOP
J601 PHOND/VIDEO/ AUX IN
PHOND IN
VIDEO/ AUX IN
CON602
TO CD MAIN C.B
CONS
HOLD, CD ON
Q219 2SK2723
Q207 2SC5401
Q213 214
OVERLOAD DET
Q205 FN1016
Q209 FN1016
Q211 FP1016
Q203 CMBT5551
Q204 CMBT5551
Q201, 202, 225
MUTE SW
Q201 C5013306E
Q203~212 Q233~236
POWER AMP
Q208 C2N5401
Q231 CMBT5551
Q214 CMBT5551
Q232 RT1N141C
SWITCHING DRIVER
TEMPERATURE DET
Q210 FN1016
Q212 FP1016
Q226 2SA1235F
POWER SW
Q227 2SC3052F
Q215 2SA1235 F
Q216 2SA1235 F
Q217 2SA1235 F
Q218 2SA1235 F
Q220 2SA1235 F
Q221 2SC3052 F
Q222 2SA1235F
Q223 2SA1235 F
Q224 2SA1235 F
Q225 2SA1235 F
Q227 2SC3052F
Q228 2SC3052F
Q229 RT1N141C
SWITCHING
Q230 CMBT5551
Q231 CMBT5551
Q232 RT1N141C
Q233 2SA1235 F
Q234 2SA1235 F
Q235 2SA1235 F
Q236 2SA1235 F
Q101~104
CONST VOL REG
Q102 2SB1370 F
Q103 KTC3198 GR
Q104 2SC3052 F
Q105 C5014489 B
VCC SW
Q106 2SC3052 F
Q107 2SA1235 F
Q108 2SA1235 F
Q109 2SA1235 F
Q110 2SC3052
HOLD SW
Q111, 112
-VFL REG
Q116 MC2836
Q117 MTZJ10C
Q118 2SA1235 F
Q119 47/25
Q120 2SA1235 F
Q121 470/6
Q122 100/16
Q123 22/25
Q124 100/16
Q125 470/16
Q126 100
Q127 100
Q128 100/35
IC601 BH3810FS
VF/FUNCTION
IC701 BA7762FS
REC/PB AMP
IC801 BA5406FS
SYSTEM CONTROL
IC802 BR24C08F
EEPROM
IC803 BU4066BCF
IC804 BU4066BCF
IC805 BU4066BCF
IC806 BU4066BCF
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IC812 BU4066BCF
IC813 BU4066BCF
IC814 BU4066BCF
IC815 BU4066BCF
IC816 BU4066BCF
IC817 BU4066BCF
IC818 BU4066BCF
IC819 BU4066BCF
IC820 BU4066BCF
IC821 BU4066BCF
IC822 BU4066BCF


A MAIN C.B
CON601
IC720 LC72131U (Z) PLL
IC770 LA1837 DECODER
IC601 BH3810FS I/F/FUNCTION
IC501 BA3762FS REC PB AMP
Q711 C5D1489 B TUNER SW
Q805 2SC2714 FM IF AMP
Q806 R1P144C BAND SW
FFE801 FM FRONTEND PACK 7ZA-2 FEUNM
L981 (3/3) AM PACK 4N (TOK)
L981 (2/3) AM PACK 4N (TOK)
L981 (1/3) AM PACK 4N (TOK)
AM TRACKING ADJUSTMENT
J801 ANTENNA
J401 PHONO/VIDEO/AUX IN
CON602
TO CB MAIN C.B CON5
Q219 2SK2723
Q209 FN1016
Q210 FP1016
Q211 FP1016
Q212 FP1016
Q205 CMBT5551
Q206 CMBT5551
Q207 CMBT5551
Q208 C2N5401
Q204 CMBT5551
Q203 CMBT5551
Q201, 202, 225 MUTE SW
Q203 ~ 212 Q233 ~ 236 POWER AMP
Q213, 214 OVERLOAD DET
Q221 ~ 223 SWITCHING DRIVER
Q219, 220 (SWITCHING)
Q210 MTZJ5.1B
Q208 1N5402D BD54
Q207 1N5403 BD54
Q227 1N4148M
Q273 R1P144C
Q271 2SC3052 F
Q222 2SA1235 F
Q224 2SA1235 F
Q226 2SA1235F POWER SW
Q220 2SK2725
Q238 470
Q240 22/50
Q242 22/50
Q243 22/50
Q244 22/50
Q245 22/50
Q246 22/50
Q247 22/50
Q248 22/50
Q249 22/50
Q250 22/50
Q251 22/50
Q252 22/50
Q253 22/50
Q254 22/50
Q255 22/50
Q256 22/50
Q257 22/50
Q258 22/50
Q259 22/50
Q260 22/50
Q261 22/50

A MAIN C.B

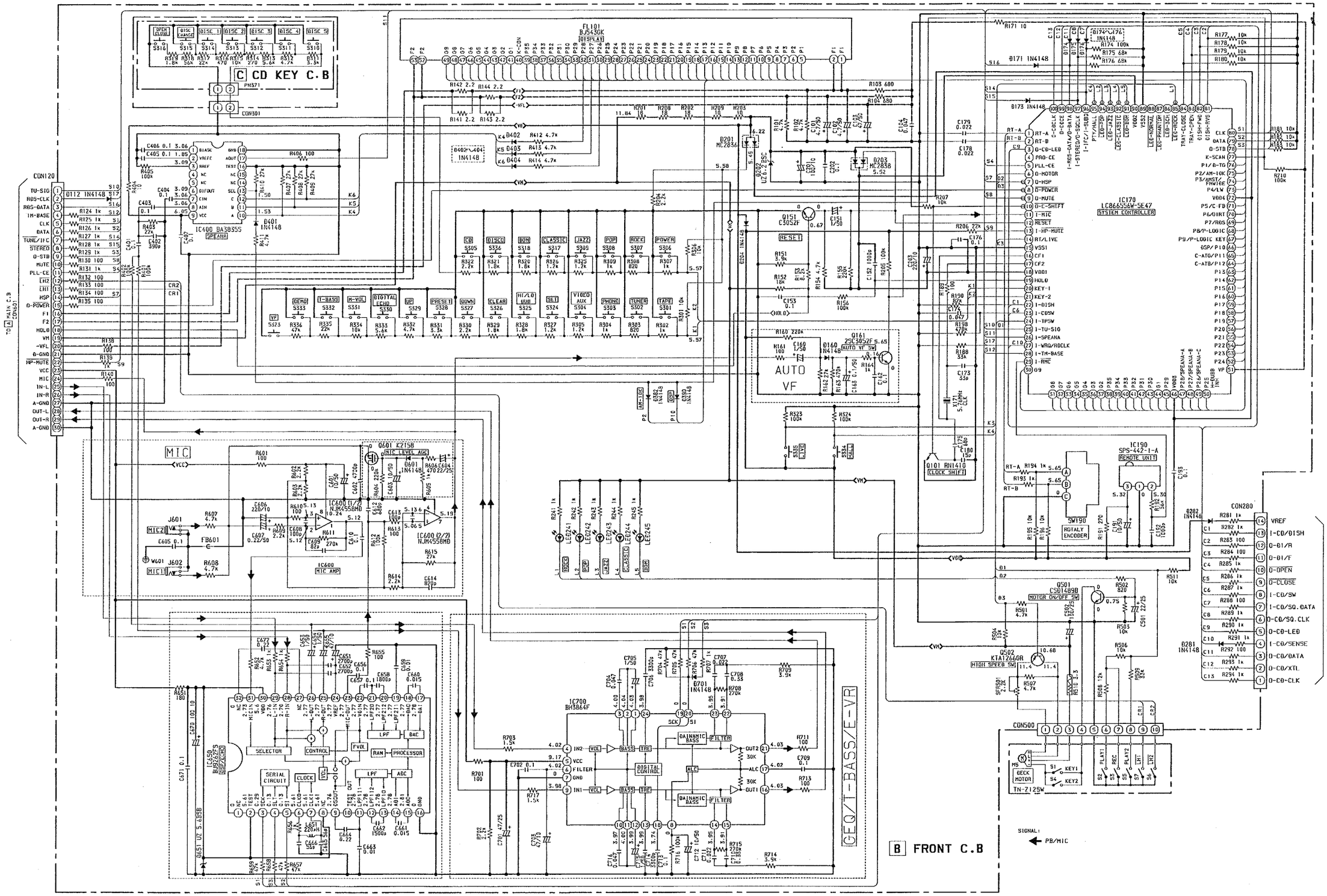

FROM DECK MECHA
CON351
1 3 5 7 8
TO PIN351
FROM DECK MECHA
CON301
1 3
TO PIN301
TO B FRONT C.B
CON101
AM LOOP
J801
ANTENNA
75Ω
J601
PHONO IN
R
L
TO C8 MAIN C.B
CON5
TO CON602
J601
VIDEO/AUX IN
R
L
FROM E AC2 C.B
W001
BLK
W001
TO WH101
J253
SURROUND SPEAKERS
SPEAKERS
IMP:16Ω+16Ω
J253
SUPER WOOFER
R
L
J254
SPEAKERS
SPEAKER
IMP:6Ω
J254
J252
PHONES
IC720
IC601
IC303
FFE801
CF801
CF802
L770
L351
SFR351
SFR352
SFR302
SFR303
SFR301
PIN301
PIN351
CON602
CON601
TP5 TPB
GND

B FRONT C.B

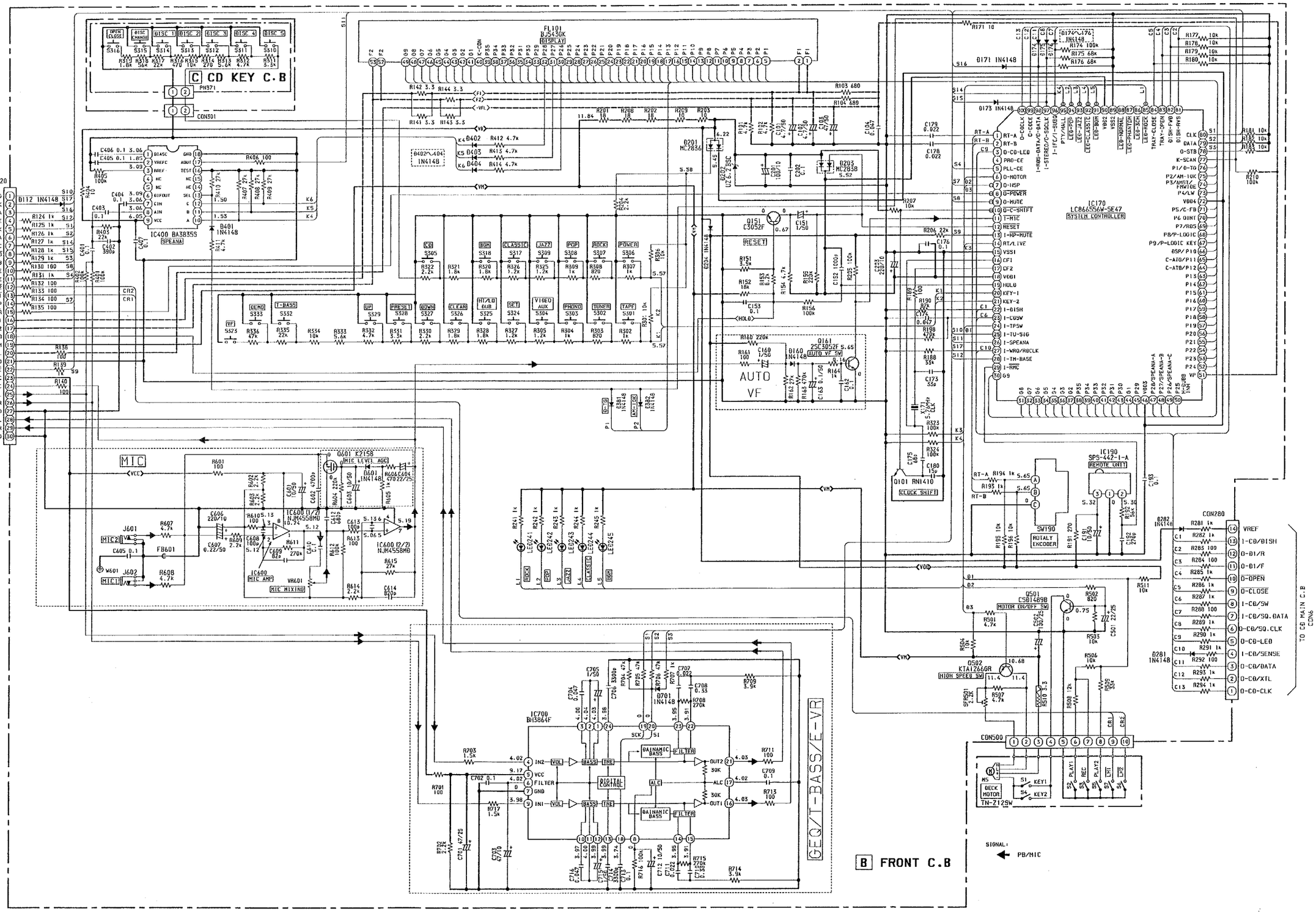


C CD KEY C.B

SCHEMATIC DIAGRAM – 3 (FRONT : LH)



SCHEMATIC DIAGRAM – 4 (FRONT : U)



B FRONT C.B

FROM CD MAIN C.B CON6

TO C CD KEY C.B PN371

FL101 DISPLAY

FROM DECK MECHA

FROM A MAIN C.B CON601

S306 POWER STANDBY/ON

S333 DEMO

VR601 MIC MIXING

J602 MIC1

J601 MIC2

S332 T-BASS

S323 KARAOKE VOCAL FADER/ MULTPLEX

SW190 VOLUME

LED245 S318 BGM

LED244 S317 CLASSIC

LED243 S309 JAZZ

LED242 S308 POP

LED241 S307 ROCK

ELECTRONIC GRAPHIC EQUALIZER

S305 CD

S304 VIDEO/AUX

S303 PHONO

S302 TUNER/BAND

S301 TAPE

S328 PRESET ▶

S326 CLEAR ■

S324 SET II

S329 UP ▶▶

S327 ◀◀ DOWN

TUNING

S325 DUBBING SPEED

C CD KEY C.B

FROM B FRONT C.B CN301

S310 DISC5

S314 DISC1

S311 DISC4

S313 DISC2

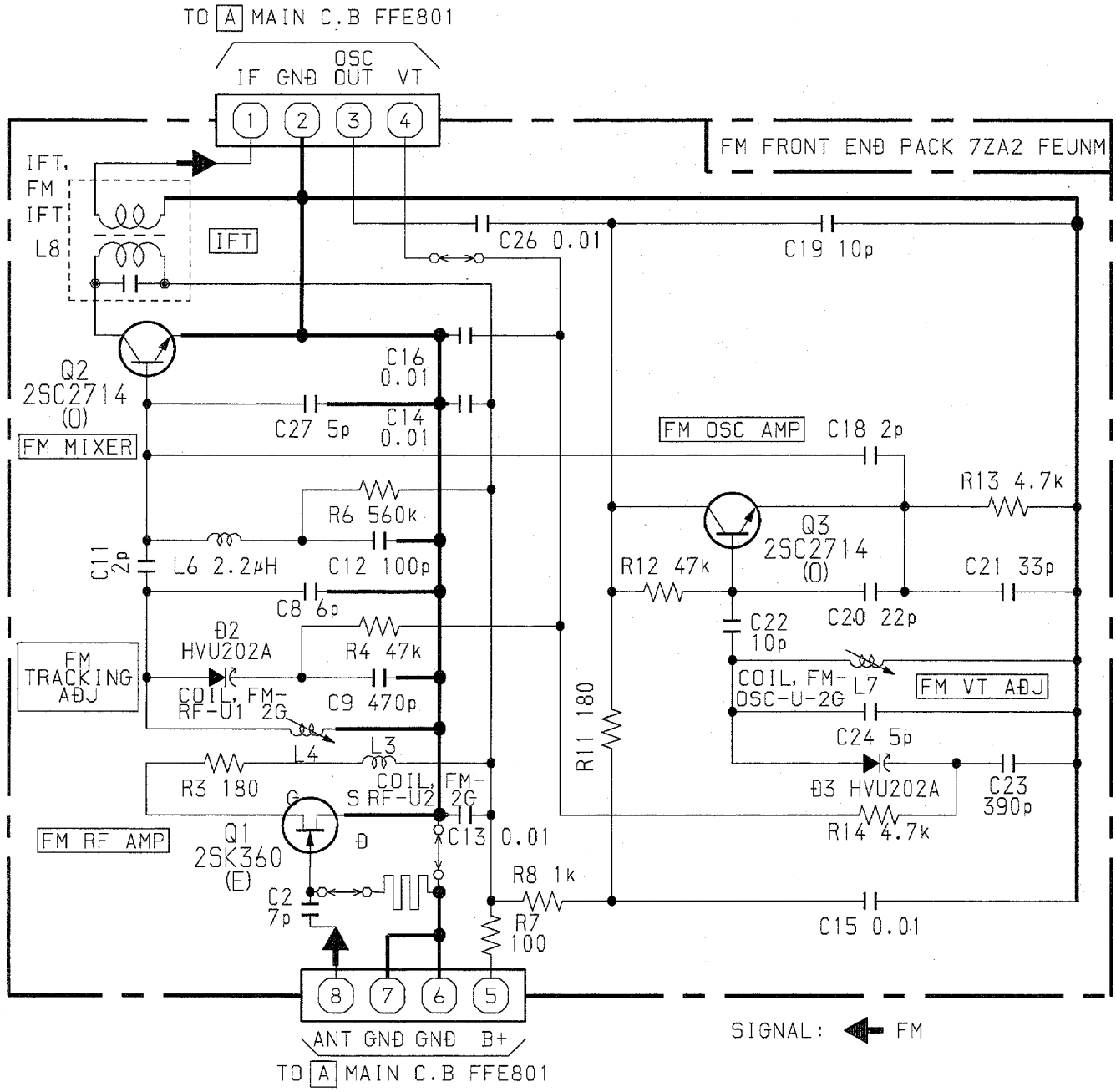
DISC DIRECT PLAY

S312 DISC3

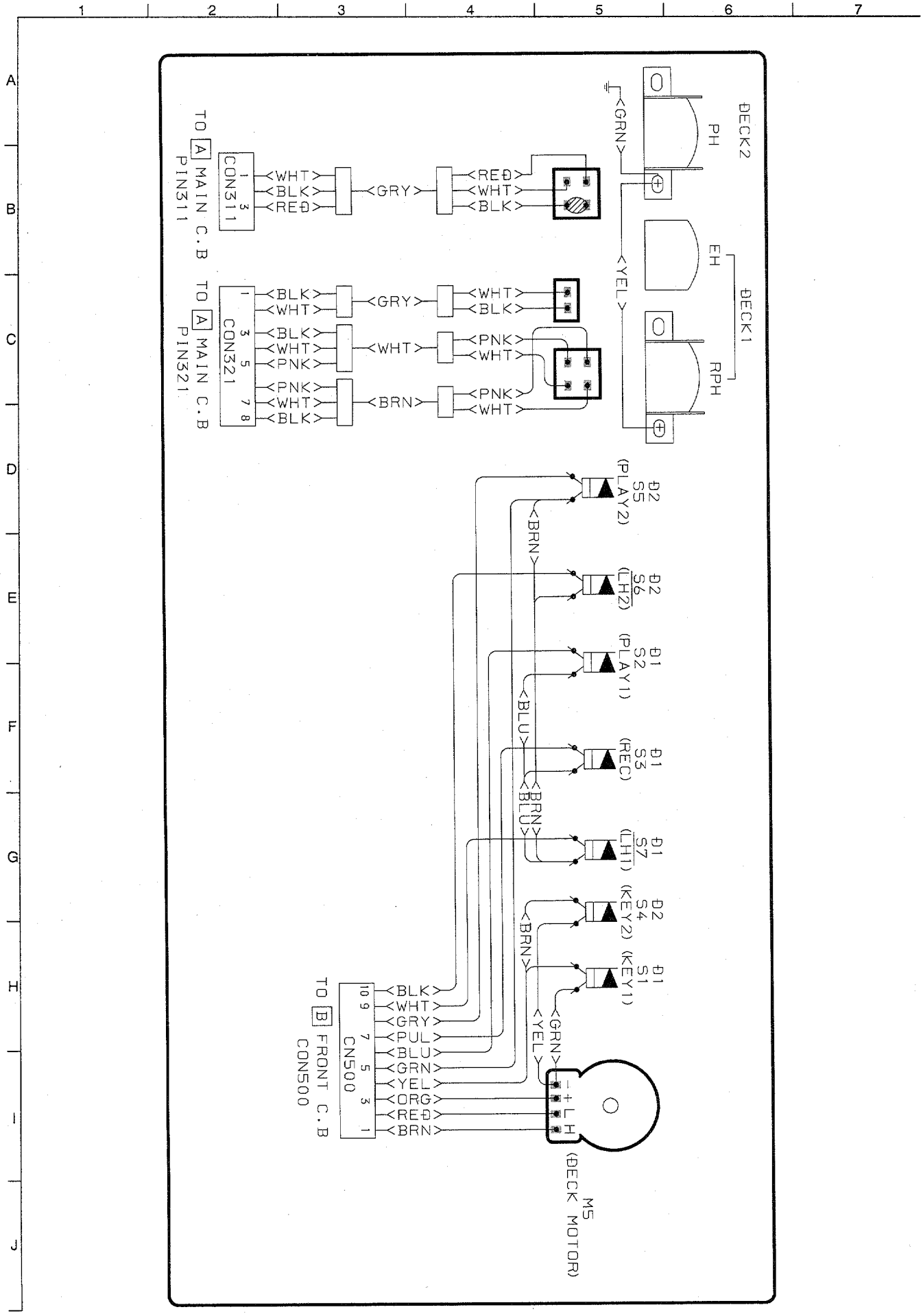
S316 ▲OPEN/CLOSE

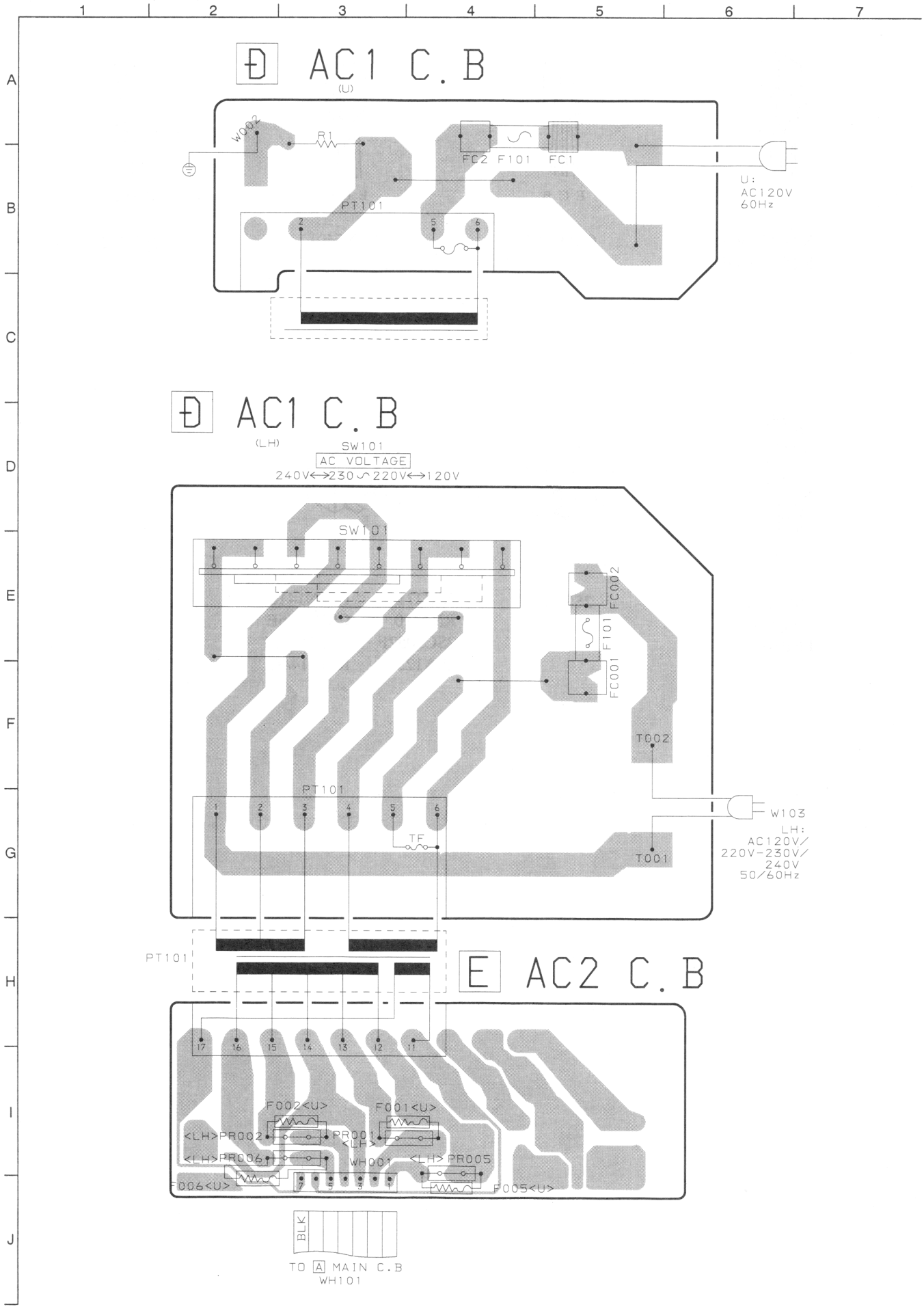
S315 DISC CHANGE

SCHEMATIC DIAGRAM – 5 (7ZA-2 TUNER FRONT END)

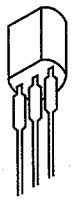


WIRING – 5 (DECK)




D AC1 C.B
(U)
W002
R1
FC2 F101 FC1
PT101
U:
AC120V
60Hz
D AC1 C.B
(LH)
SW101
AC VOLTAGE
240V↔230V↔220V↔120V
SW101
FC002
F101
FC001
T002
PT101
TF
T001
W103
LH:
AC120V/
220V-230V/
240V
50/60Hz
PT101
E AC2 C.B
F002<U>
F001<U>
<LH>PR002
PR001
<LH>
<LH>PR006
WH001
<LH>PR005
F006<U>
F005<U>
BLK
TO A MAIN C.B
WH101

TRANSISTOR ILLUSTRATION



E C B

KTA1266GR
KTC3198GR



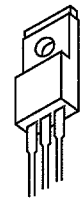
E C B

CSD1489B



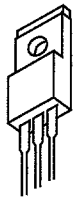
E B C

C2N5401



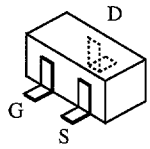
G D S

2SK2723

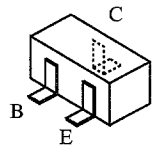


B C E

2SB1370
FN1016
FP1016



2SK2158

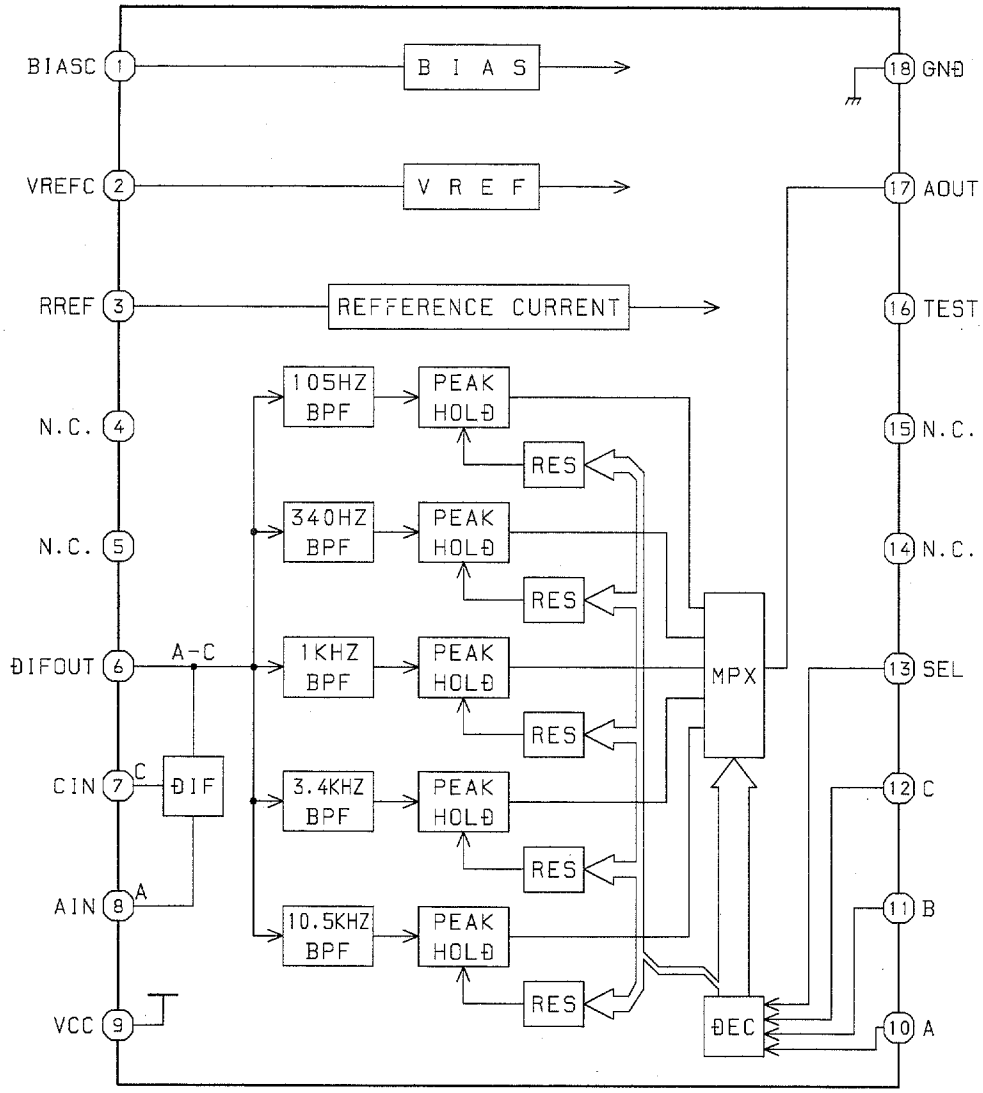


2SC2714
RN1410
2SC3052F
2SA1235F

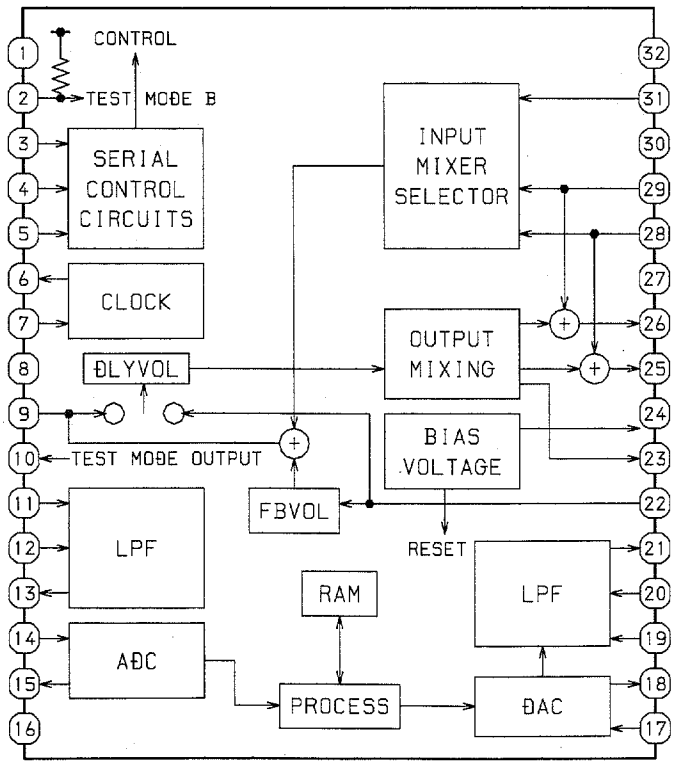
RT1N141C
CSD1306E
CMBT5551
RT1P144C

IC BLOCK DIAGRAM

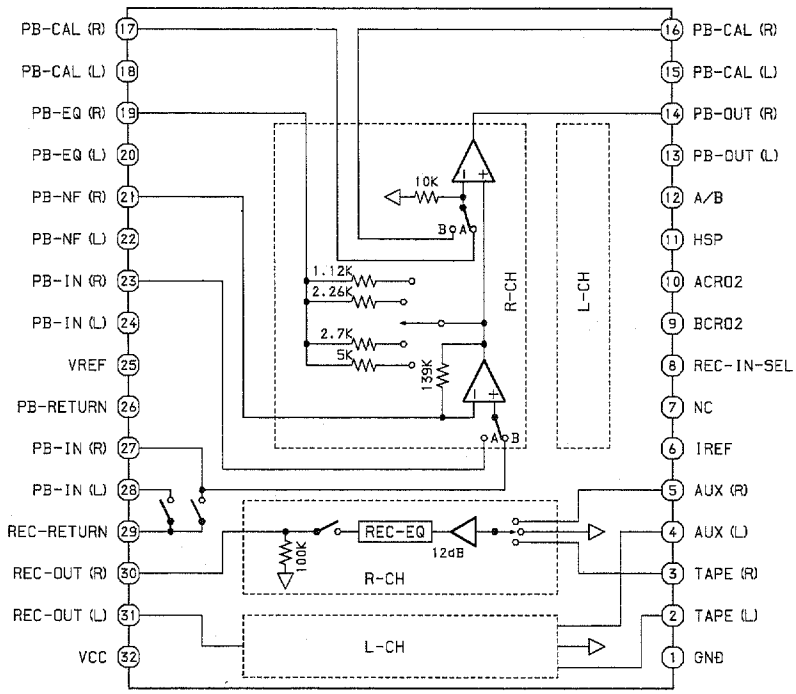
IC, BA3835S



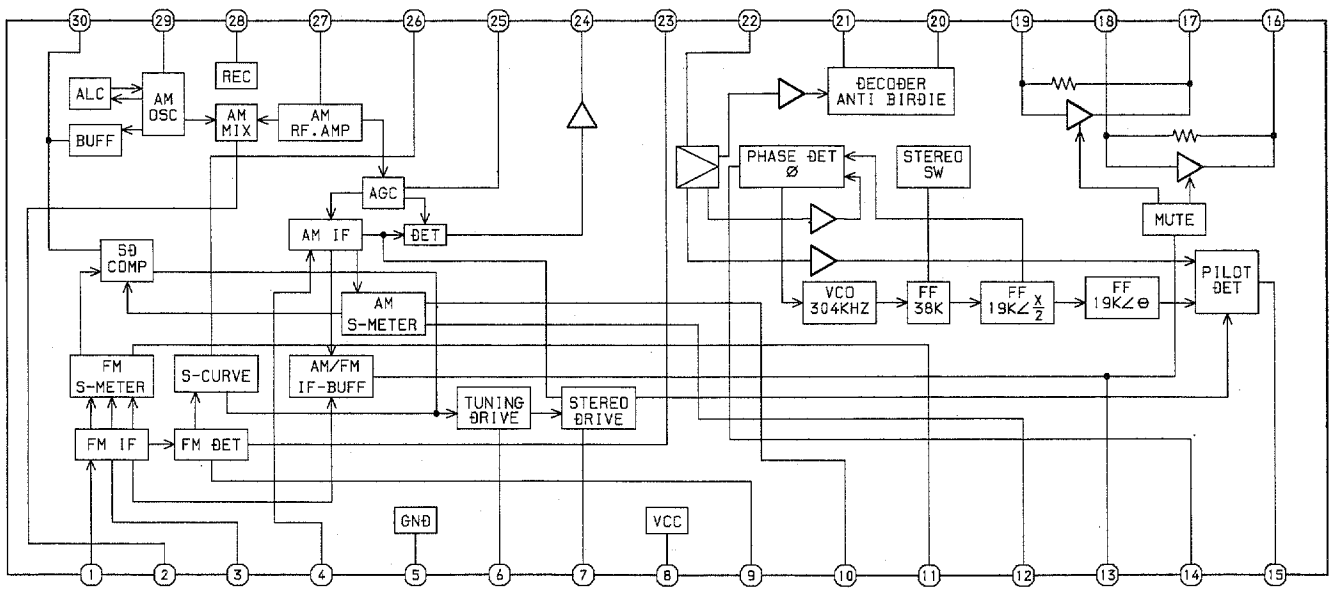
IC, BU9262FS



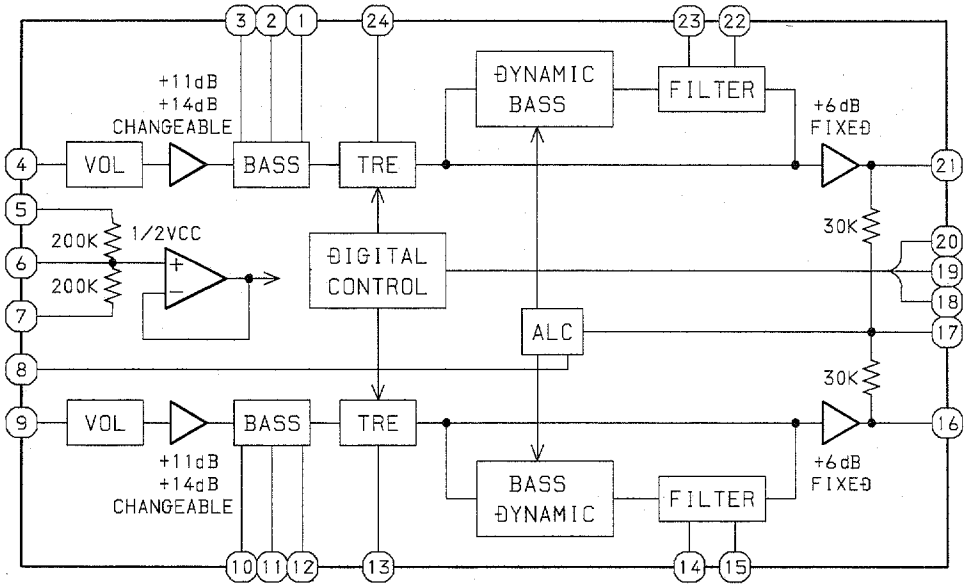
IC, BA7762FS



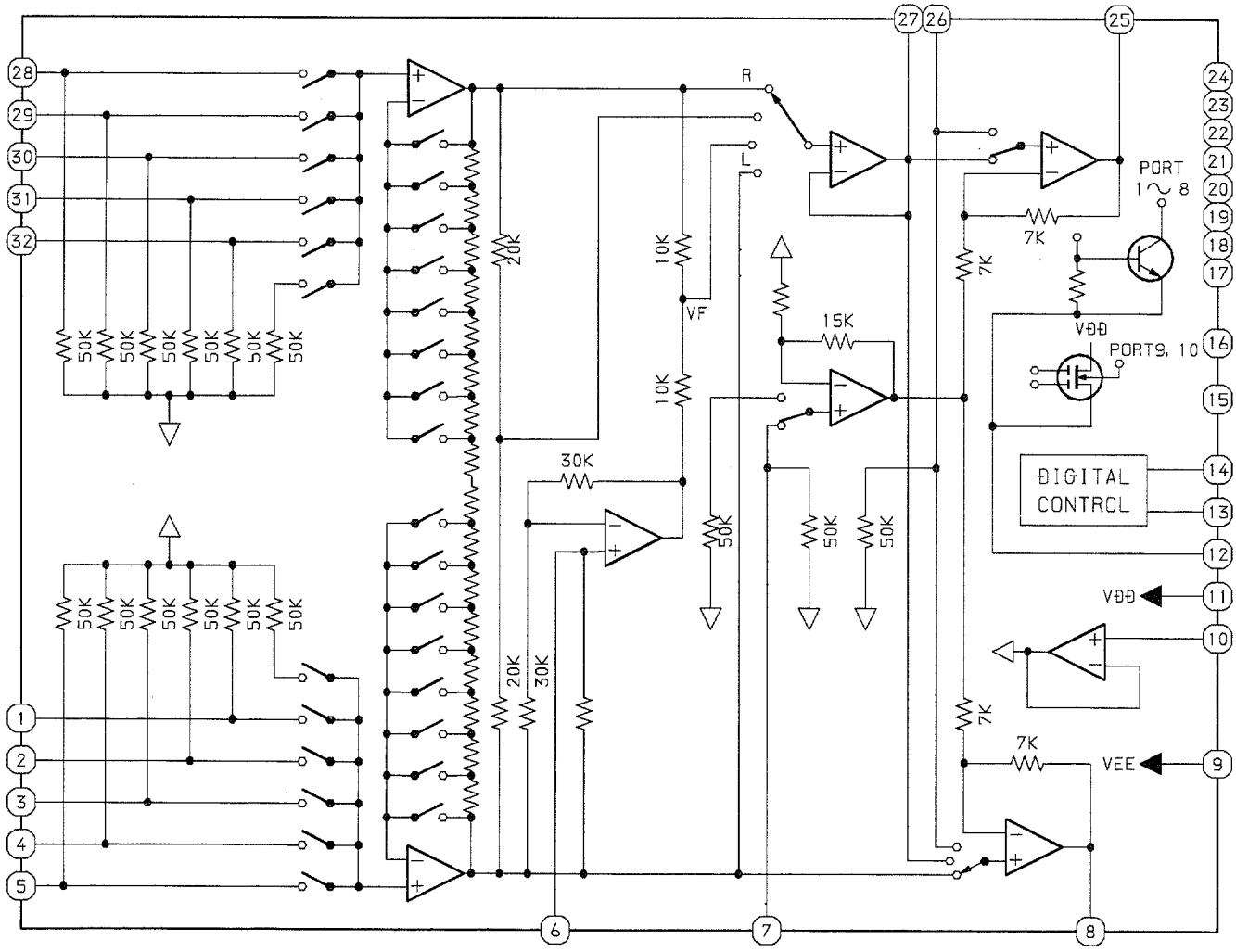
IC, LA1837



IC, BH3864F

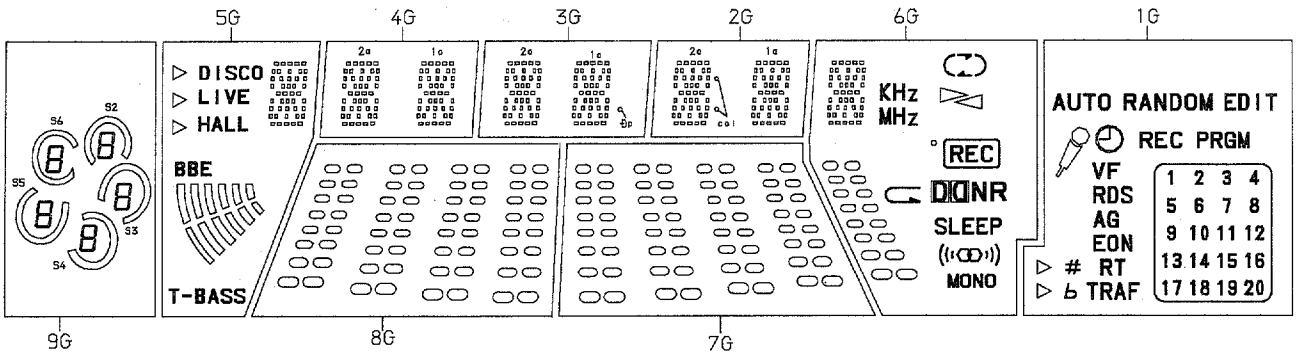


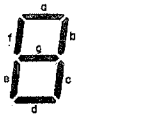
IC, BH3810FS



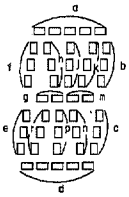
FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

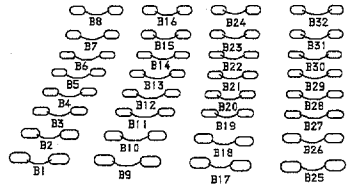




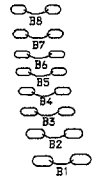
[9G]



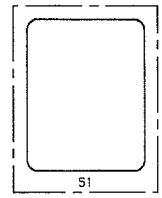
[6G ~ 2G]



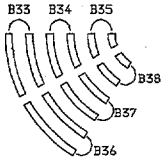
[8G, 7G]



[6G]



[1G]



[5G]

ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S4	B8	B8	1d	1d	1d	1d	1d	RANDOM
P2	3e	B16	B16	1n	1n	1n	1n	1n	PRGM
P3	3c	B24	B24	1p	1p	1p	1p	1p	EDIT
P4	3g	B32	B32	1r	1r	1r	1r	1r	S1
P5	3f	B7	B7	1e	1e	1e	1e	1e	1
P6	3b	B15	B15	1c	1c	1c	1c	1c	2
P7	3a, 3d	B23	B23	1g	1g	1g	1g	1g	3
P8	S5	B31f	B31	1m	1m	1m	1m	1m	4
P9	4e	B6	B6	1f	1f	1f	1f	1f	5
P10	4c	B14	B14	1b	1b	1b	1b	1b	6
P11	4g	B22	B22	1k	1k	1k	1k	1k	7
P12	4f	B30	B30	1j	1j	1j	1j	1j	8
P13	4b	B5	B5	1h	1h	1h	1h	1h	9
P14	4a, 4d	B13	B13	1a	1a	1a	1a	1a	10
P15	S2	B21	B21	DD NR	B35	-	Ðp	col(下)	11
P16	1a, 1d	B29	B29	▷	B34	-	-	col(上)	12
P17	1b	B4	B4	◁	B33	2d	2d	2d	13
P18	1f	B12	B12	○	BBE	2n	2n	2n	14
P19	1g	B20	B20	REC	B38	2p	2p	2p	15
P20	1c	B28	B28	B8	B37	2r	2r	2r	16
P21	1e	B3	B3	B7	B36	2e	2e	2e	17
P22	S6	B11	B11	B6	T-BASS	2c	2c	2c	18
P23	5a, 5d	B19	B19	B5	▷ (HALL)	2g	2g	2g	19
P24	5f	B27	B27	B4	▷ (LIVE)	2m	2m	2m	20
P25	5g	B2	B2	B3	▷ (ÐISCO)	2f	2f	2f	RDS
P26	5g	B10	B10	B2	ÐISCO LIVE HALL	2b	2b	2b	AG
P27	5c	B18	B18	B1	-	2k	2k	2k	EON
P28	5e	B26	B26	((ıOOı))	-	2j	2j	2j	RT
P29	S3	B1	B1	MONO	-	2h	2h	2h	TRAF
P30	2a, 2d	B9	B9	◥)	-	2a	2a	2a	REC
P31	2b	B17	B17	(	-	-	-	-	◴
P32	2f	B25	B25	MHz	-	-	-	-	VF
P33	2g	-	-	KHz	-	-	-	-	AUTO
P34	2c	-	-	⊂	-	-	-	-	▷ (b)
P35	2e	-	-	SLEEP	-	-	-	-	▷ (#)
P36	-	-	-	-	-	-	-	-	b #

IC DESCRIPTION

IC, LC866556W-5E47

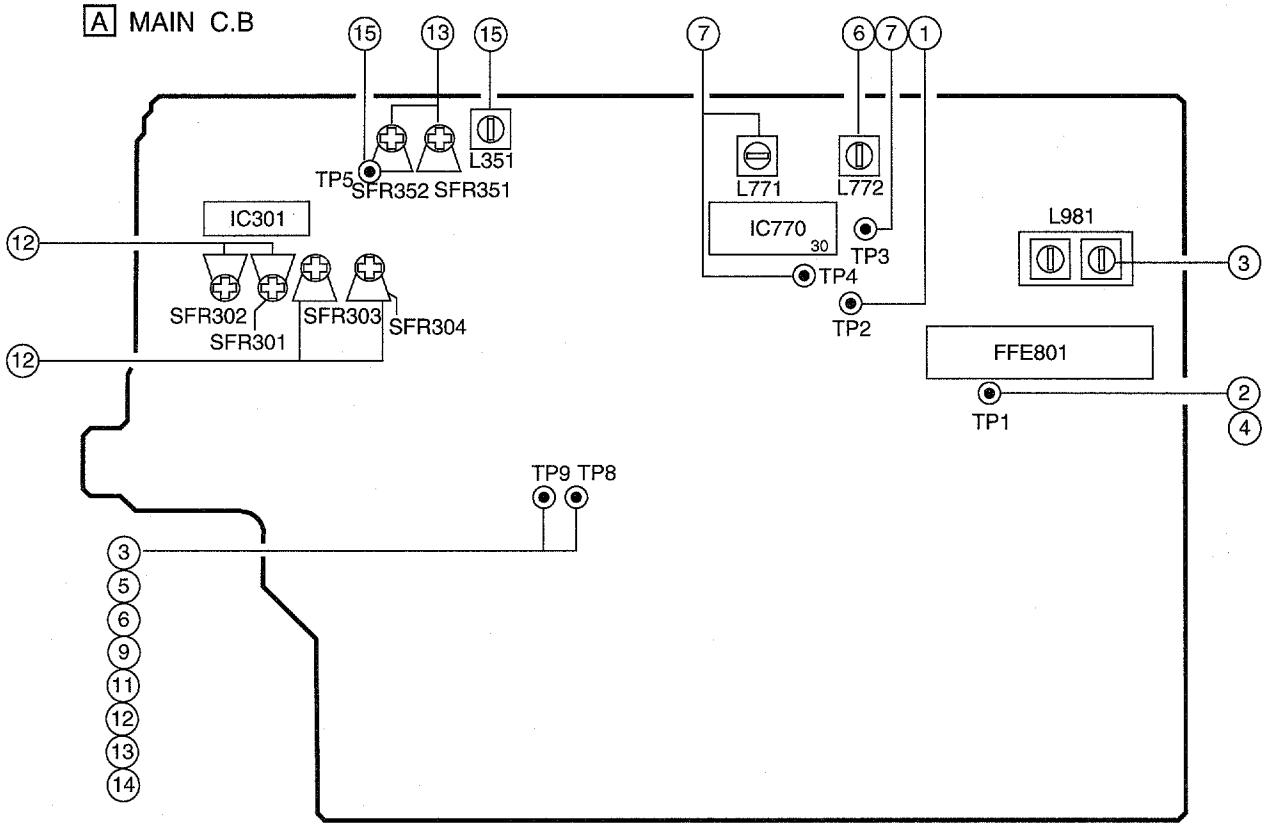
Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	O-CD-LED	O	CD flash window ON/OFF output.
4	PRO-CE	O	Prologic IC chip enable output.(Not used)
5	PLL-CE	O	PLL (LC72131) IC chip enable output.
6	O-MOTOR	O	Deck motor ON/OFF output.
7	O-HSP	O	Tape deck motor high speed ON/OFF output.
8	O-POWER	O	System power supply ON/OFF output.
9	O-MUTE	O	System mute ON/OFF output.
10	O-C-SHIFT	O	MICON clock shift ON/OFF output.
11	I-MIC	I	Microphone input for Auto VF display.
12	RESET	I	Reset input.
13	I-HP-MUTE	I	Headphone insert detect input. Active :"H".
14	RT/LIVE	I	Display radio text (RDS) / Live sound effect (DSP) key input
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	HOLD	I	Supply voltage hold detect A/D input.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	I-DISH	I	CD turntable photo sensor A/D converter input.
23	I-CDSW	I	CD mechanical switch A/D converter input.
24	I-TPSW	I	Tape mechanical switch A/D converter input.
25	I-TU-SIG	I	Tuner signal detect input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDCLK	I	CD WRQ input / Tuner RDS clock input.
28	I-TM-BASE	I	Reference clock input for timer watch.
29	I-RMC	I	System remote control signal input.
30~37	G9~G2	O	FL grid output G9~G2 .
38~43	P35~P30	O	FL segment output P35~P30.
44	G1	O	FL grid output G1.
45	P29	O	FL segment output P29.
46	VDD3	–	Power supply input.
47	P28/SPEANA-A	O	FL segment P28 output / Spectrum analyzer band switching output.
48	P27/SPEANA-B	O	FL segment P27 output / Spectrum analyzer band switching output.
49	P26/SPEANA-C	O	FL segment P26 output / Spectrum analyzer band switching output.
50	P25/H-DUBB INH	I /O	FL segment P25 output / High dubbing inhibit input to diode.
51	VP	–	Power supply input for FL display.
52~63	P24~P13	O	FL segment output P13~P24.
64	P12/C-ATB	I/O	FL segment P12 output / C-ATB diode detect input.
65	P11/C-ATG	I/O	FL segment P11 output / C-ATG diode detect input .

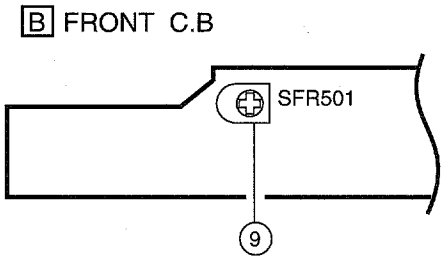
Pin No.	Pin Name	I/O	Description
66	P10/DSP	I/O	FL segment P10 output / DSP diode detect input.
67	P9/P-LOGIC KEY	I/O	FL segment P9 output / Prologic key diode detect input.
68	P8/P-LOGIC	I/O	FL segment P8 output / PROLOGIC diode detect input.
69	P7/RDS	I/O	FL segment P7 output / RDS diode detect input.
70	P6/OIRT	I/O	FL segment P6 output / OIRT diode detect input.
71	P5/C-FB	I/O	FL segment P5 output / C-FB diode detect input.
72	VDD4	–	Power supply input.
73	P4/LW	I/O	FL segment P4 output / LW diode detect input.
74	P3/AMST/FMWIDE	I/O	FL segment P3 output / AMST/FMWIDE diode detect input.
75	P2/AM-10K	I/O	FL segment P3 output / AM10K diode detect input.
76	P1/D-TG	I/O	FL segment P1 output / D-TG diode detect input.
77	K-SCAN	O	Switch SCAN timing output.
78	O-STB	O	Serial data strobe output for MAIN,FRONT C.B.
79	DATA	O	Serial data output for MAIN,FRONT C.B.
80	CLK	O	Serial clock output for MAIN,FRONT C.B.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD tray open data output.
84	TRAY-CLOSE	O	CD tray close data output.
85	$\overline{\text{LED-ROCK}}$	O	ROCK LED $\overline{\text{ON}}$/OFF output.
86	$\overline{\text{LED-3CH}}$	O	3CH LED $\overline{\text{ON}}$/OFF output.
87	$\overline{\text{LED-PHANTOM}}$	O	PHANTOM LED $\overline{\text{ON}}$/OFF output.
88	$\overline{\text{LED-NORMAL}}$	O	NORMAL LED $\overline{\text{ON}}$/OFF output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED-BGM}}$	O	BGM LED $\overline{\text{ON}}$/OFF output.
92	$\overline{\text{LED-CLASSIC}}$	O	CLASSIC LED $\overline{\text{ON}}$/OFF output.
93	$\overline{\text{LED-JAZZ}}$	O	JAZZ LED $\overline{\text{ON}}$/OFF output.
94	$\overline{\text{LED-POP}}$	O	POP LED $\overline{\text{ON}}$/OFF output.
95	PTY/HALL	I/O	Display the program type (RDS) / Hall sound effect (DSP) key input.
96	$\overline{\text{I-IFC}}$/I-SUBQ	I	Tune IF count serial data input /CD SUB Q data input.
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DAT/O-DAT	I/O	RDS data input/CD data output.
99	O-CDCE	O	CD CE output.
100	O-CDCLK	O	CD CLOCK output.

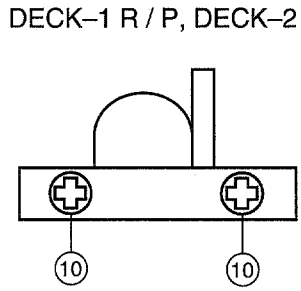
IC, LC72131

Pin No.	Pin Name	I/O	Description
1	X IN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.
22	X-OUT		
2	NC	–	Not used.
3	CE	I	To enable the IC. Active "H".
4	DI	I	Digital data input from CPU (LC866556W-5E47) when relevant key is operated. Active "H".
5	CLK	I	To clock in the data DI.
6	DO	O	Digital data output to CPU (LC866556W-5E47).
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.
8	$\overline{\text{MONO}}$ / BEAT	O	Outputs "H" when MONO / BEAT is switched.
9	$\overline{\text{FM}}$ / $\overline{\text{SW}}$	O	Output "L" or "H" as follows: 2 BAND FM: L, SW: L
10	$\overline{\text{MW}}$/SW	O	Outputs "L" or "H" as follows: 2 BAND MW: L, SW: H
11	IF-MUTE	O	To control internal counter.
12	IF-IN	I	General purpose counter input.
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.
14	NC	–	Not used.
15	AM-IN	I	Receives the AM local oscillator frequency signal.
16	FM-IN	I	Receives the FM local oscillator frequency signal.
17	VDD	–	Supply power to IC (+5V).
18	PD	O	PLL charge pump output.
19	A-IN	I	The MOS transistor for PLL active low pass filter.
20	A-OUT	O	
21	VSS	–	Ground.

ADJUSTMENT <TUNER / DECK>







< TUNER SECTION >

1. Clock Check
   Settings : • Test point : TP2
   Method : Set to MW 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1
   Method : Set to AM 1710kHz and check that the test point is less than 7.0V.
   Set to AM 530kHz and check that the test point is more than 0.6V.

3. AM Tracking Adjustment
   Settings : • Test point : TP8, TP9
   • Adjustment location :
   L981 ..... 1000kHz
   Method : The level at 1000kHz is adjusted to MAX by L981.

4. FM VT Check
   Settings : • Test point : TP1
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 1.0V.

5. FM Tracking Check
   Settings : • Test point : TP8, TP9
   Method : • Set to FM 98.0MHz and check that the test point is 5 ± 6dB.

6. AM IF Adjustment
   Settings : • Test point : TP8, TP9
   • Adjustment location :
   L772 ..... 1000kHz
   Method : The level at 1000kHz is adjusted to MAX by L772.

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4
   • 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 ± 0.04V. Next, check that the distortion is less than 1.3%.

8. Auto Stop Level Check
   AM
   Method : Check auto stop at AM 1000kHz is within 50 ± 10dB.
   FM
   Method : Check auto stop at FM 98.0MHz is within 17 ~ 32dB.

< DECK SECTION >

9. Tape Speed Adjustment
   Settings : • Test tape : TTA–100
   • Test point : TP8,TP9
   • Adjustment location : SFR501
   Method : Play back the test tape and adjust SFR501 so that the frequency counter reads 3000Hz ± 5Hz.

10. Head Azimuth Adjustment
    Settings : • Test tape : TTA–300
    • Test point : TP8,TP9
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

11. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–300
    • Test point : TP8,TP9
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 4dB.

12. PB Sensitivity Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA–210
    • Test point : TP8,TP9
    • Adjustment location :
    SFR301 (DECK 1, Lch)
    SFR302 (DECK 1, Rch)
    SFR303 (DECK 2, Lch)
    SFR304 (DECK 2, Rch)
    Method : Play back the 400Hz signals of the test tape and adjust SFRs so that the output level of the test point becomes 300mV ± 10mV.

13. REC/PB Frequency Response Adjustment
    Settings : • Test tape : TTA–602
    • Test point : TP8,TP9
    • Input signal : 1kHz / 10kHz
    • Adjustment location : SFR351 (Lch)
    SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8 and TP9 becomes 17mV. Record and playback the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

14. REC/PB Frequency Response CrO2 check
    Settings : • Test tape : TTA–615
    • Test point : TP8,TP9
    Method : Playback the 1kHz and 10kHz signals of the test tape and check that the output ratio of the 10kHz with respect to that of the 1kHz signal is ± 1dB.

15. Bias OSC Frequency Adjustment
    Settings : • Test point : TP5
    • Adjustment location : L351
    Method : Set to the REC mode. Adjust L351 so that the frequency counter of the test point is 85kHz ± 2kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	6dB ± 6dB
(THD 3%)	[at 87.5 / 98.0MHz/ 108.0MHz]
S/N 50dB Quieting sensitivity :	
(STEREO)	31dB ± 5dB
	[at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	MONO :
	More than 65dB
	[at 98.0MHz]
	STEREO :
	More than 64dB
	[at 98.0MHz]
Distortion :	MONO :
	Less than 1.3%
	[at 98.0MHz]
	STEREO :
	Less than 2%
	[at 98.0MHz]
Stereo separation :	More than 25dB
	[at 98.0MHz]
Intermediate frequency :	10.7MHz

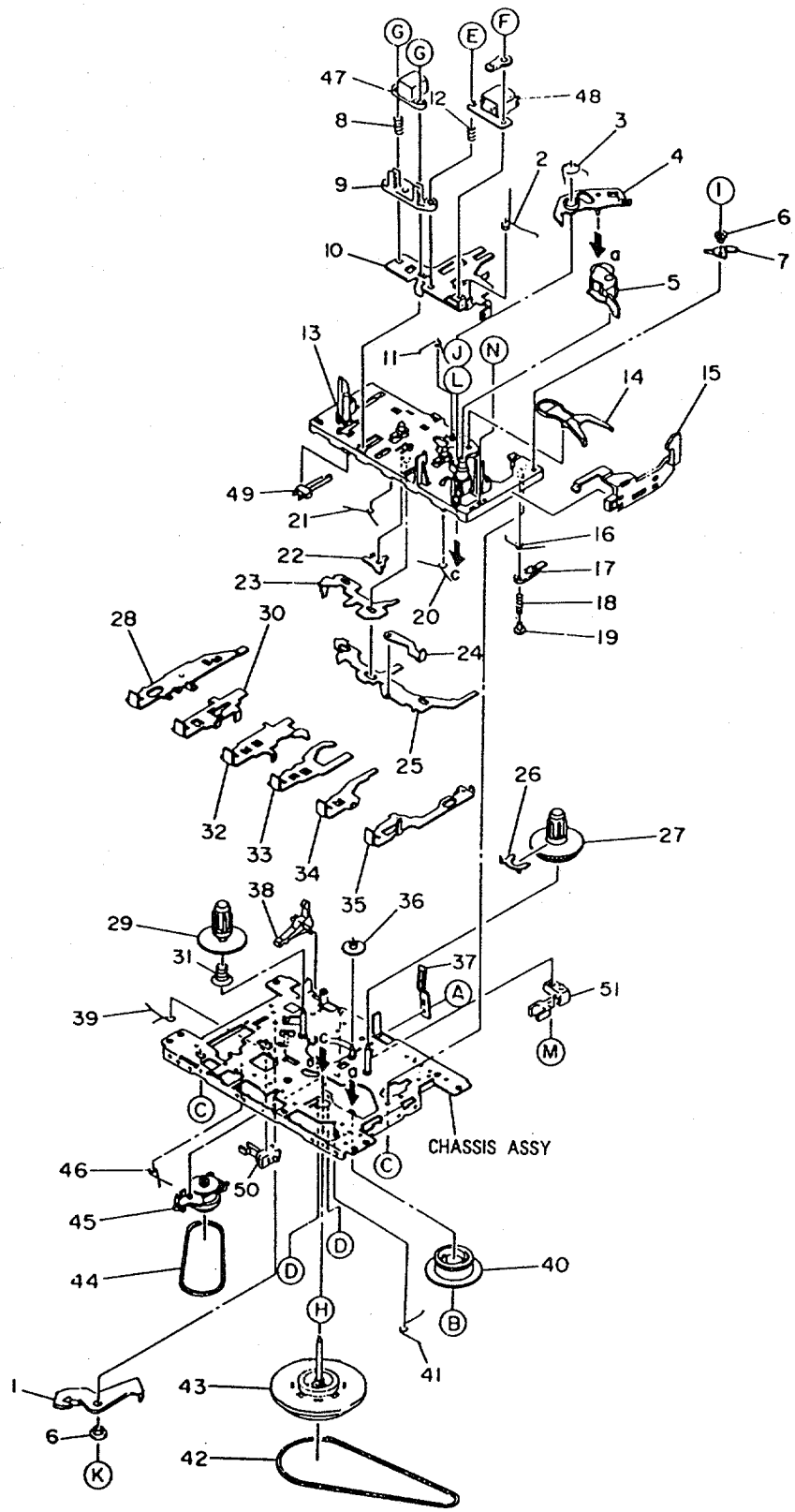
<AM SECTION>

Sensitivity :	54dB ± 6dB
(S/N 20 dB)	[at 600kHz]
	52dB ± 6dB
	[at 1000kHz / 1400kHz]
Distortion :	Less than 1.5%
	[at 1000kHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 3%
Wow & flutter :	Less than 0.35% (R.M.S)
Take-up torque :	30 ~ 60g-cm (FWD, REV)
F.F & REW torque :	55 ~ 140g-cm
Back tension :	2 ~ 5g-cm
PB Output level :	2.7V ± 1.5dB(SP 2V)
REC/PB Output level :	1.6V ± 2dB(SP 2V)
Noise level (PB) :	Less than 190mV(CrO2, DOLBYOFF)
	Less than 300mV(NORM, DOLBYOFF)
Noise level (REC/PB) :	Less than 35mV/12mV(NORM, DOLBYOFF)
	Less than 23mV/10mV(CrO2, DOLBYOFF)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2)
Crosstalk :	More than 55dB (1kHz, SP 2V)
Channel separation :	More than 40dB (1kHz, SP 2V)
Erasing ratio :	More than 60dB (at 125Hz,SP 2V)
Test tape :	NORM : TTA-602
	CrO2 : TTA-615

TAPE MECHANISM EXPLODED VIEW 1 / 2

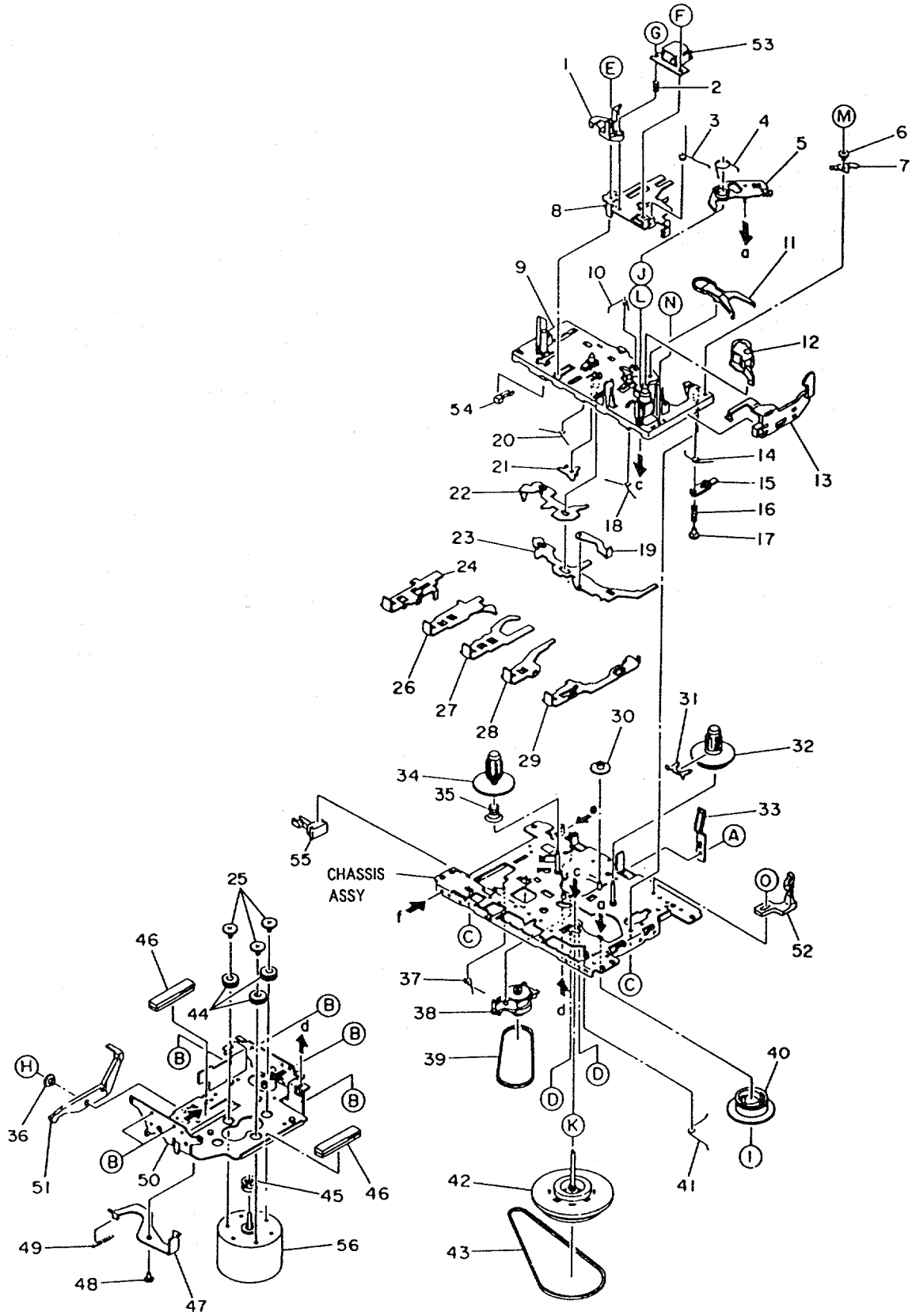


TAPE MECHANISM PARTS LIST 1 / 2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-020-010		REC ARM
2	S1-921-030-090		PANEL P SPRING
3	S1-921-260-050		GEAR PLATE SPRING
4	S1-921-265-020		GEAR PLATE ASSY
5	S1-921-043-100		PINCH ROLLER ARM ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-821-030-080		EH SPRING
9	S1-921-030-060		HEAD BASE
10	S1-921-030-140		HEAD PANEL
11	S1-921-141-8A0		M CONTROL SPRING
12	S1-821-030-070		AZIMUTH SPRING
13	S1-921-143-180		BASE ASSY
14	S1-921-260-4A0		SENSING LEVER
15	S1-921-130-020		EJECT SLIDE LEVER
16	S1-921-141-3A0		P CONTROL SPRING
17	S1-921-140-550		PAUSE LEVER(E)
18	S1-921-140-120		PAUSE LEVER SPRING
19	S1-921-140-110		PAUSE STOPPER
20	S1-921-140-150		BUTTON LEVER SPRING(B)
21	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-200		PR STOPPER
23	S1-921-140-090		SWITCH ACTUATOR
24	S1-921-140-640		E KICK LEVER
25	S1-921-140-080		PUSH BUTTON ACTUATOR
26	S1-921-050-060		SENSER
27	S1-921-053-030		TAKE UP REEL ASSY
28	S1-921-140-220		REC BUTTON LEVER
29	S1-921-053-040		SUPPLY REEL ASSY
30	S1-921-140-230		PLAY BUTTON LEVER
31	S1-821-100-990		BACK TENSION SPRING
32	S1-921-140-240		REW BUTTON LEVER
33	S1-921-140-250		FF BUTTON LEVER
34	S1-921-140-660		STOP BUTTON LEVER
35	S1-921-140-610		PAUSE BUTTON LEVER
36	S1-821-100-700		FF GEAR
37	S1-829-100-010		PACK SPRING
38	S1-821-100-690		RECORD SAFETY LEVER
39	S1-921-140-210		REC BUTTON LEVER SPRING
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-090-240		MAIN BELT
43	S1-921-093-030		FLYWHEEL ASSY
44	S1-821-070-110		RF BELT
45	S1-921-073-040		RF CLUTCH ASSY
46	S1-921-140-170		P.S.LEVER SPRING
47	S6-202-140-190		E HEAD
48	S6-201-010-750		R.P.HEAD RP-7442BS
49	S6-401-011-490		LEAF SW MSW-1541T
50	S6-401-011-610		LEAF SW MSW-17820MVEI
51	S6-401-010-380		LEAF SW MSW-1275
A	S9-179-000-000		C TAP SCREW M2-3
B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-922-000-000		AZIMUTH SCREW M2-8
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-223-000-000		SCREW,M2-7.5
H	S9-882-000-000		P WASHER 2-3.5-0.4
I	S9-999-200-410		P TAP SCREW M2-3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-180-000-000		C TAP SCREW M2-4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-181-000-000		C TAP SCREW M2-5
N	S9-P05-200-610		S TAPPING SCREW M2-6

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 ".

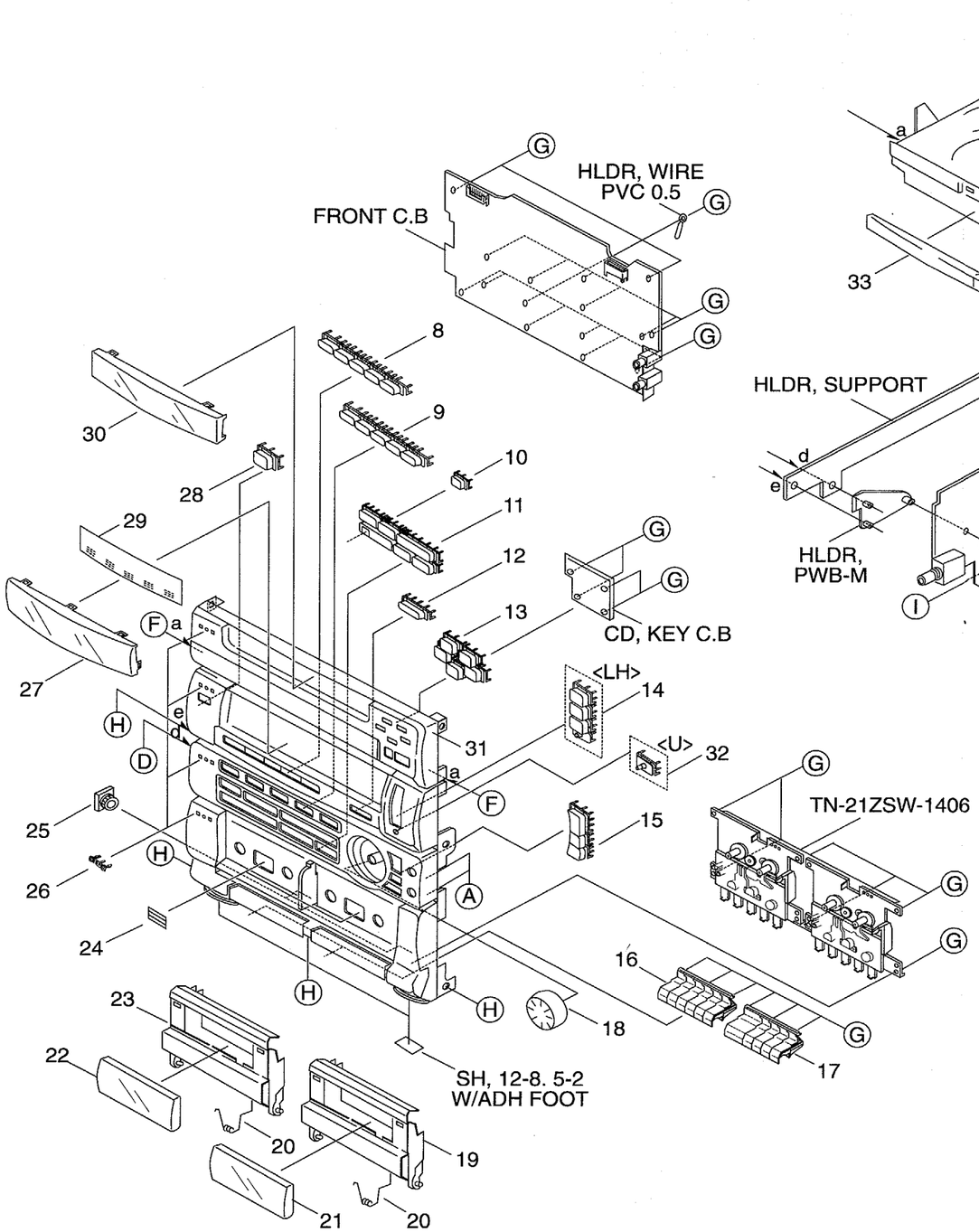
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-100		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	S1-821-011-590		E KICK LEVER
20	S1-921-140-140		BUTTON LEVER SPRING(A)
21	S1-921-140-200		PR STOPPER
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
25	S1-821-120-020		MOTOR COLLER SCREW
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSER
32	S1-921-053-030		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-053-040		SUPPLY REEL ASSY
35	S1-821-100-990		BACK TENSION SPRING
36	S1-821-120-650		COLLER B
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-040		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	S1-921-093-040		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
44	S1-820-130-060		MOTOR RUBBER
45	S1-921-120-130		MOTOR PULLEY
46	S1-921-120-120		ANTI VIBR FELT MAT
47	S1-821-120-680		P KICK LEVER (A)
48	S1-821-120-230		PK COLLER SCREW A
49	S1-821-120-250		P KICK LEVER SPRING
50	S1-921-120-110		MOTOR BRACKET
51	S1-921-120-090		P KICK LEVER
52	S6-401-011-250		LEAF SW MSW-1664
53	S6-201-010-750		R.P.HEAD RP-7442BS
54	S6-401-011-490		LEAF SW MSW-1541T
55	S6-401-011-610		LEAF SW MSW-17820MVEI
56	S6-002-030-290		MOTOR EG530YD-2BH
A	S9-179-000-000		C TAP SCREW M2-3
B	S9-180-000-000		C TAP SCREW M2-4
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-004-000-000		SCREW M2-6
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-922-000-000		AZIMUTH SCREW M2-8
H	S9-182-000-000		C TAP SCREW M2-6
I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
J	S9-999-030-130		P WASHER CUT 1.45-3.8
K	S9-882-000-000		P WASHER 2-3.5-0.4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-999-200-410		P TAP SCREW M2-3
N	S9-P05-200-610		S TAPPING SCREW M2-6
O	S9-661-000-000		CAP TAP SCREW M2-5

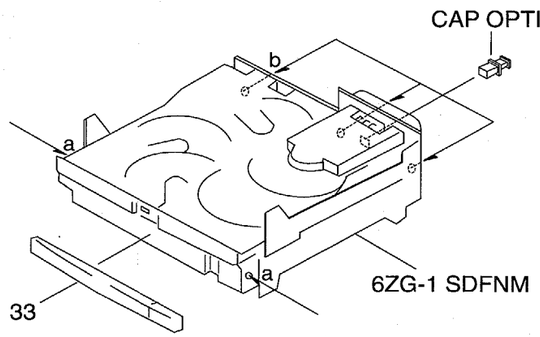
ACCESSORIES / PACKAGE LIST

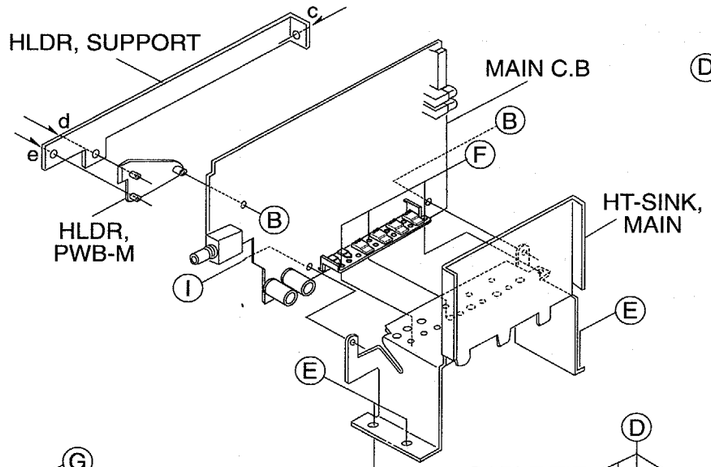
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

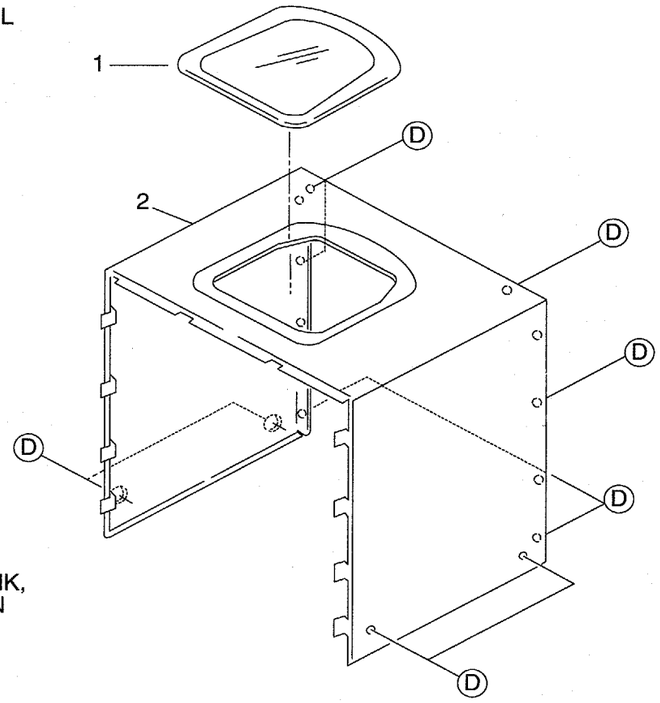
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MA7-902-019		IB,LH (ES)-M <LH>
1	87-ma7-905-019		IB,U (ESF)-M <U>
2	87-MA8-701-119		RC UNIT, 7AS05
3	87-A90-030-016		ANT,LOOP AM-NC C
4	87-043-115-019		FEEDER-ANT,FM
⚠ 5	87-A90-312-016		PLUG,CONVERSION WTN-1157R1 <LH>

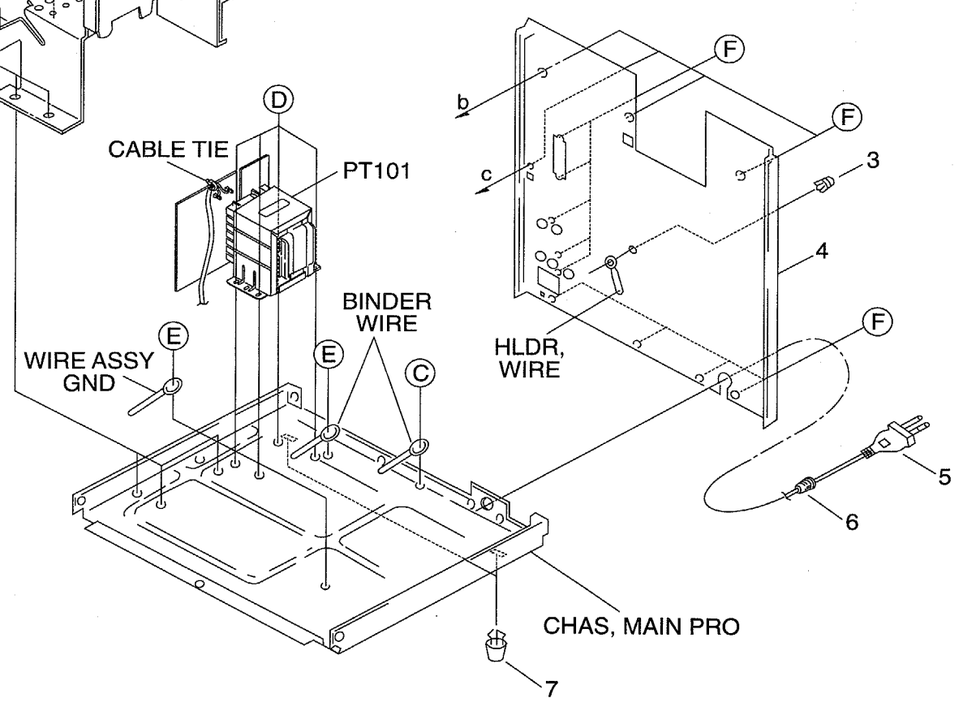
MECHANICAL EXPLODED VIEW 1 / 1











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
1	86-MA3-042-010		WINDOW,TOP<LH>
1	87-MAT-009-010		WINDOW,TOP<U>
2	87-MA5-027-010		CABI,STEEL
3	87-084-077-010		RIVET NYL3.5-4.5
4	87-MA7-011-010		PANEL,REAR LHSTNM<LH>
4	87-MA7-014-010		PANEL,REAR USTNM (525)<U>
⚠ 5	87-050-079-010		AC CORD ASSY,E BLK<LH>
⚠ 5	87-050-053-010		AC CORD ASSY,U-2<U>
⚠ 6	87-085-185-010		BUSHING,AC CORD(E) CM-22B<LH>
⚠ 6	87-085-189-010		BUSHING,AC CORD(U) CM-22C<U>
7	87-MA3-062-010		FOOT, H17
8	87-MA5-014-010		KEY,GEQ
9	87-MA7-063-010		KEY,FUN
10	87-MA7-069-010		KEY,DUBB
11	87-MA7-061-010		KEY,PLAY
12	87-MA7-062-010		KEY,KARAOKE
13	87-MA5-011-010		KEY,DIRECT
14	87-MA5-013-010		KEY,DSP<LH>
15	87-MA6-005-010		KEY,T-BASS<LH>
15	87-MA7-067-010		KEY,T-BASS<U>
16	87-MA7-064-010		KEY,CASS 1
17	87-MA7-065-010		KEY,CASS 2
18	87-MA3-027-010		KNOB,RTRY MAIN
19	87-MA7-031-010		BOX,CASS R<LH>
19	87-MA7-033-010		BOX,CASS R(E)<U>
20	85-MA7-201-010		SPR-T,EJECT
21	87-MA7-051-010		WINDOW,CASS R
22	87-MA7-050-010		WINDOW,CASS L
23	87-MA7-030-010		BOX,CASS L<LH>
23	87-MA7-032-010		BOX,CASS L(E)<U>
24	81-532-080-010		LBL,CASS-COMPT
25	87-063-164-010		OIL-DMPR,
26	82-NE8-032-010		BADGE,AIWA 27.5 ABS GLD
27	87-MA5-024-010		WINDOW,AMP
28	87-MA5-012-010		KEY,POWER
29	87-MA7-080-010		PLATE,GEQ
30	87-MA5-023-010		WINDOW,CD
31	87-MA7-001-010		CABI,FR HE<LH>
31	87-MA7-004-010		CABI,FR U (525)<U>
32	87-MA7-068-010		KEY,DEMO<U>
32	87-MA5-009-010		PANEL,TRAY
A	81-MK1-210-010		S-SCREW,BFT2+3-16
B	87-067-579-010		BVT2+3-8 W/O SLOT
C	87-067-585-010		BVTT+4-6
D	87-067-641-010		UTT2+3-8 W/O SLOT BLK
E	87-067-688-010		BVTT+3-6
F	87-067-703-010		BVT2+3-10 W/O SLOT
G	87-641-096-410		UT1+3-10
H	87-591-094-410		QIT+3-6
I	87-NF4-224-010		S-SCREW,IT3B+3-8

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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