

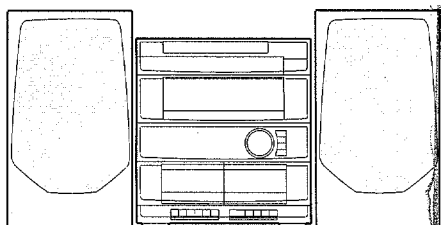
aiwa



Z-R300

Z-R325

Z-R330



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : TN-21ZFW-1716
- BASIC CD MECHANISM : 6ZG-1 SDFNM

- TYPE: U<325,330>, LH,G,K,EZ<300>

SYSTEM	SPEAKER	STEREO TURNTABLE	CD - CASSEIVER	REMOTE CONTROLLER
Z-R300 (TYPE : LH,G,EZ)	SX-ZR300	NIL	CX-ZR300	RC UNIT,7AS05
Z-R300 (TYPE : K)	SX-ZR350	PX-E850		
Z-R325 (TYPE : U)	SX-ZR325	PX-E850	CX-ZR325	
Z-R330 (TYPE : U)	SX-ZR330	NIL	CX-ZR330	

- If requiring information about the Stereo turntable, see Service Manual of PX-E850, S/M Code No.09-947-070-902
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, S/M Code No.09-975-198-00T

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SPECIFICATIONS (325U,330U,LH)

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Antenna	Wire antenna

<AM Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Antenna	Loop antenna

<Amplifier section>

Power output	325U : 12 W + 12 W (50 Hz - 20 kHz, T.H.D less than 1%, 6 ohms) 330U : 50 W + 50 W (50 Hz - 20 kHz, T.H.D less than 1%, 6 ohms) LH : 30 W + 30 W (T.H.D.10 %, 6 ohms, 1kHz)
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Total harmonic distortion	325U : 0.3 % (5 W, 1 kHz, 6 ohms, DIN AUDIO) 330U : 0.3 % (25 W, 1 kHz, 6 ohms, DIN AUDIO) LH : 0.3 % (15 W, 1 kHz, 6 ohms, DIN AUDIO) Inputs PHONO/VIDEO/AUX: 400 mV Outputs CD DIGITAL OUT (OPTICAL) SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more
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<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	Type I (normal) tape: 50 Hz - 15000 Hz
Recording system	AC bias
Heads	Deck 1 : Recording/playback/ erase head x 1 Deck 2 : Playback head x 1

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780$ 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-ZR325> (325U)

Cabinet type	2 way, bass reflex
Speakers	Woofer : 170 mm (6 ³ / ₄ in.) cone type Tweeter : 60 mm (2 ³ / ₈ in.) cone type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	260 x 444 x 175 mm (10 ¹ / ₄ x 17 ¹ / ₂ x 7 in.)
Weight	3.5 kg (7 lbs 11 oz)

<Speaker system SX-ZR330>(330U)

Cabinet type	2 way, bass reflex
Speakers	Woofer : 170 mm (6 ³ / ₄ in.) cone type Tweeter : 60 mm (2 ³ / ₈ in.) cone type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	260 x 444 x 175 mm (10 ¹ / ₄ x 17 ¹ / ₂ x 7 in.)
Weight	3.5 kg (7 lbs 11 oz)

<Speaker system SX-ZR300>(LH)

Cabinet type	3 way, bass reflex
Speakers	Woofer : 170 mm (6 ³ / ₄ in.) cone type Tweeter : 60 mm (2 ³ / ₈ in.) cone type Super tweeter : 20 mm (1 ³ / ₁₆ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 444 x 265 mm (10 ¹ / ₄ x 17 ¹ / ₂ x 10 ¹ / ₂ in.)
Weight	4.3 kg (9 lbs 8 oz)

<General>

Power requirements	325U,330U : 120 V AC, 60 Hz LH : 120 V/220 V-240 V AC, (switchable) 50/60 Hz
Power consumption	325U : 40 W 330U : 105 W LH : 85 W
Dimensions of main unit (W x H x D)	360 x 393 x 382 mm (14 ¹ / ₂ x 15 ¹ / ₂ x 15 ¹ / ₈ in.)
Weight of main unit	325U : 7.6 kg (16 lbs 12 oz) 330U : 10 kg (22 lbs 1 oz) LH : 8.5 kg (18 lbs 12 oz)

• Design and specifications are subject to change without notice.

SPECIFICATIONS (G,K,EZ)

<FM Tuner section>

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

<MW Tuner section>

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

<LW Tuner section>

Tuning range	144 kHz ~ 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output	G,K : Rated : 20 W + 20 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference : 25 W + 25 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) EZ : Rated : 20 W + 20 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference : 24 W + 24 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 42 W + 42 W
Total harmonic distortion	0.3 % (10 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	PHONO/VIDEO/AUX : 400 mV
Outputs	CD DIGITAL OUT (OPTICAL) 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	Type I (normal) tape: 50 Hz -15000 Hz
Recording system	AC bias
Heads	Deck 1 : Recording/playback/ erase head x 1 Deck 2 : Playback head x 1

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780$ 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-ZR300> (G,EZ)

Cabinet type	3 way, bass reflex
Speakers	Woofer : 170 mm (6 $\frac{1}{4}$ in.) cone type Tweeter : 60 mm (2 $\frac{3}{8}$ in.) cone type Super tweeter : 20 mm (1 $\frac{3}{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	G : 87 dB/W/m EZ : 89 dB/W/m
Dimensions (W x H x D)	G : 260 x 444 x 265 mm (10 $\frac{1}{4}$ x 17 $\frac{1}{2}$ x 10 $\frac{1}{2}$ in.) EZ : 260 x 444 x 175 mm (10 $\frac{1}{4}$ x 17 $\frac{1}{2}$ x 7 in.)
Weight	G : 4.3 kg (9 lbs 8 oz) EZ : 3.5 kg (7 lbs 11 oz)

<Speaker system SX-ZR350> (K)

Cabinet type	3 way, bass reflex
Speakers	Woofer : 170 mm (6 $\frac{1}{4}$ in.) cone type Tweeter : 60 mm (2 $\frac{3}{8}$ in.) cone type Super tweeter : 20 mm (1 $\frac{3}{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	260 x 444 x 230 mm (10 $\frac{1}{4}$ x 17 $\frac{1}{2}$ x 9 $\frac{1}{8}$ in.)
Weight	4 kg (8 lbs 13 oz)

<General>

Power requirements	230 V AC, 50Hz
Power consumption	G,K : 75 W EZ : 65 W
Dimensions of main unit (W x H x D)	360 x 393 x 382 mm (14 $\frac{1}{4}$ x 15 $\frac{1}{2}$ x 15 $\frac{1}{8}$ in.)
Weight of main unit	G,K : 8.5 kg (18 lbs 1 oz) EZ : 8.25 kg (18 lbs 3 oz)

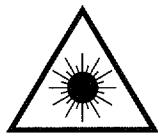
• Design and specifications are subject to change without notice.

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 saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

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

CAUTION

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

ATTENTION

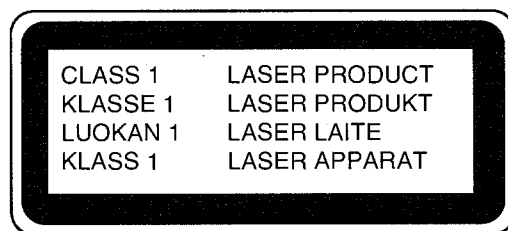
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

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

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

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

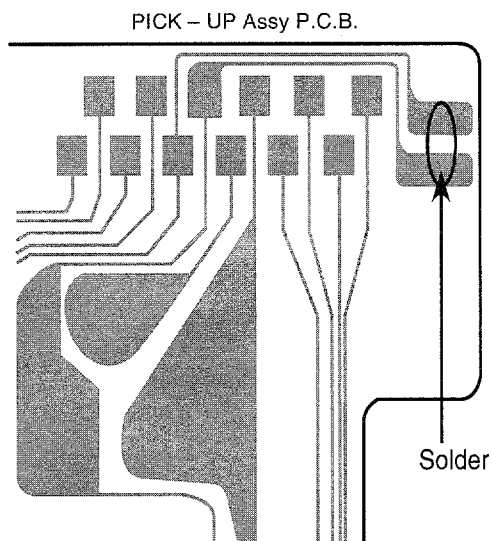


Precaution to replace Optical block

(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 right figure.

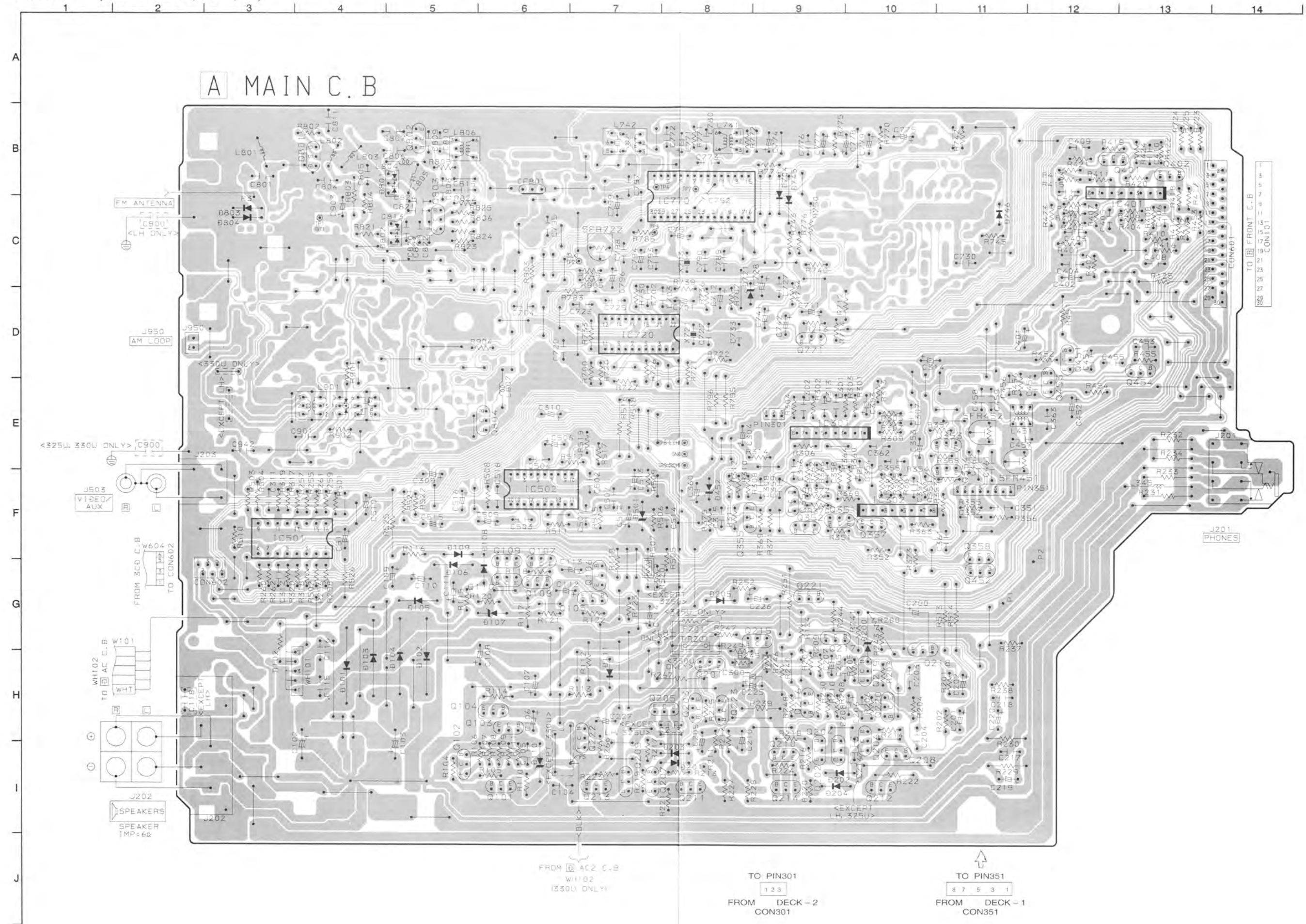


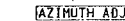
ELECTRICAL MAIN PARTS LIST

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

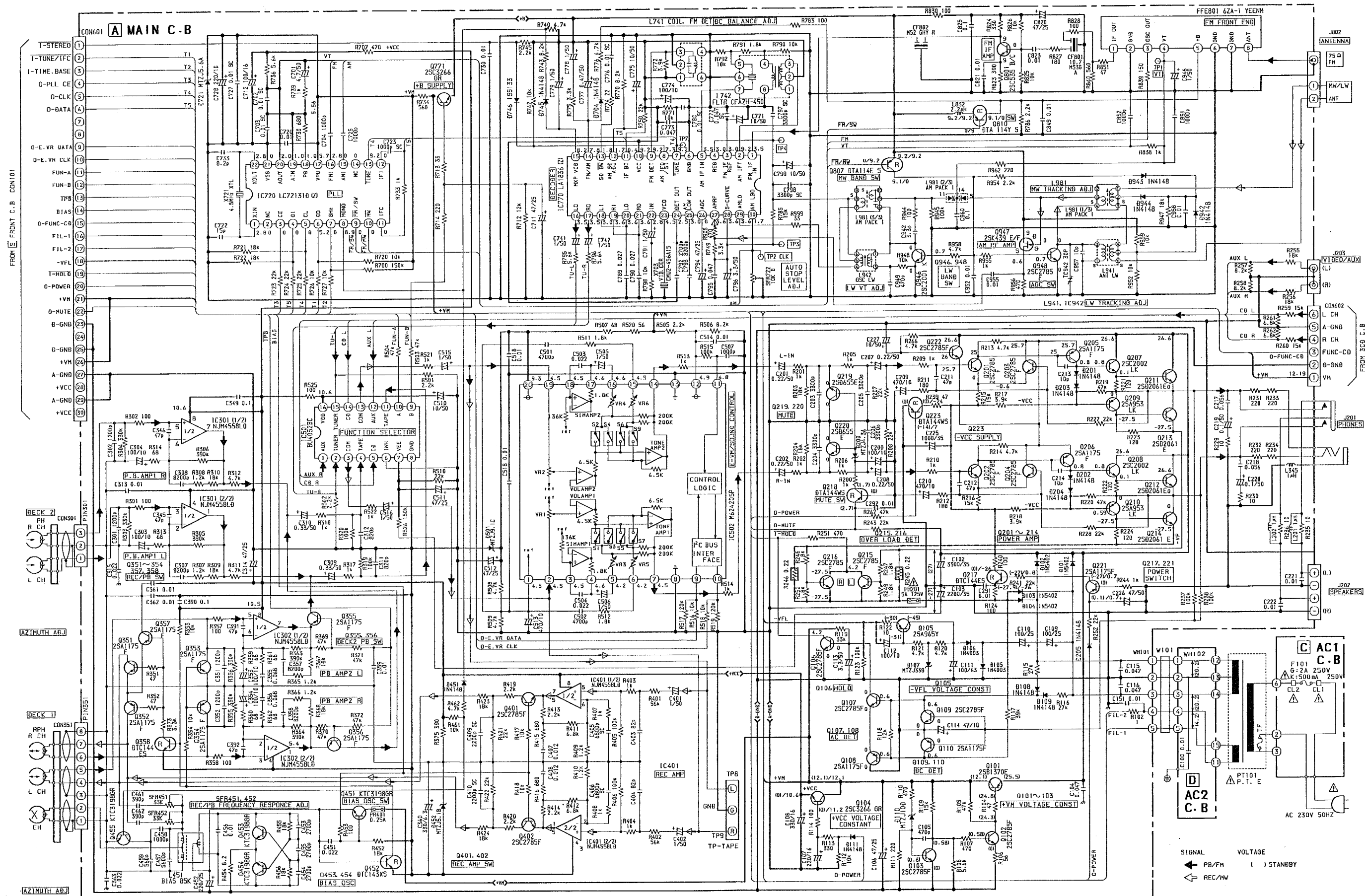
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC	87-MA8-651-010	IC,UPD780226GF	011-3BA	C108	87-010-381-080	CAP,E	330-16 SME
	87-A20-593-010	IC,SPS-442-1-A		C109	87-010-384-080	CAP,E	100-25 SME<LH,G,EZ,K>
	87-017-889-010	IC,NJM4558LD		C109	87-010-407-080	CAP,E	33-50 SME<330U>
	87-017-804-010	IC,BU4052BCP		C109	87-010-385-080	CAP,E	220-25 SME<325U>
	87-A20-312-010	IC,M62420SP		C110	87-010-407-080	CAP,E	33-50 SME<330U>
	87-017-914-010	IC,BU4094 BCP<EZ>		C110	87-010-385-080	CAP,E	220-25 SME<325U>
	86-NFZ-655-010	IC,LC27131D(Z)		C110	87-010-246-080	CAP,E	100-25 SME<LH>
	86-NFZ-654-010	IC,LA1836(Z)		C110	87-010-384-080	CAP,E	100-25 SME<EZ,G,K>
	87-A20-502-010	IC,BU1920<EZ>		C111	87-010-430-080	CAP,E	100-63 SME
	87-017-300-010	IC,NJM2100L<EZ>		C112	87-010-263-080	CAP,E	100-10 SME
				C113	87-010-403-080	CAP,E	3.3-50 SME
				C114	87-010-374-080	CAP,E	47-10 SME
				C118	87-018-134-080	CAP,TCU	0.01-16<325U,330U>
				C151	87-018-134-080	CAP,TCU	0.01-16<G,K,EZ>
				C200	87-010-263-080	CAP,E	100-10 SME
TRANSISTOR	89-213-702-010	TR,2SB1370E		C201	87-010-545-080	CAP,E	0.22-50 SME
	89-327-854-080	TR,2SC2785F		C202	87-010-545-080	CAP,E	0.22-50 SME
	89-332-665-080	TR,2SC3266GR		C203	87-018-199-080	CAP,CER	3300P
	89-111-755-080	TR,2SA1175F		C204	87-018-199-080	CAP,CER	3300P
	87-026-263-080	C-TR,RN1410		C205	87-018-196-080	CAP,CER	1500P-16V<G,K,EZ>
	87-026-226-080	C-TR,DTA143EK		C205	87-018-199-080	CAP,CER	3300P<LH,325U,330U>
	87-A30-131-080	TR,2SA965Y<EXP 325U>		C206	87-018-196-080	CAP,CER	1500P-16V<G,K,EZ>
	87-A30-102-080	TR,2SC2002LK<EXP 325U,330U>		C206	87-018-199-080	CAP,CER	3300P<LH,325U,330U>
	87-A30-132-080	TR,2SC2235Y<330U>		C207	87-010-545-080	CAP,E	0.22-50 SME
	87-A30-103-080	TR,2SA953LK<EXP 325U,330U>		C208	87-010-545-080	CAP,E	0.22-50 SME
	87-A30-133-010	TR,2SD1897E<330U>		C209	87-010-221-080	CAP,E	470-10 SME
	89-420-612-010	TR,2SD2061<EXP 330U>		C210	87-010-221-080	CAP,E	470-10 SME
	87-026-610-080	TR,KTC3198GR		C211	87-018-115-080	CAP,CER	47P-50V<G,K,EZ>
	87-026-218-080	TR,DTC144ES		C212	87-018-115-080	CAP,CER	47P-50V<G,K,EZ>
	87-026-292-080	TR,DTA144WS		C213	87-018-147-080	CAP,TCU	10P-50 CH<G,K,EZ>
	89-406-555-080	TR,2SD655E		C213	87-018-145-080	CAP,TCU	6.8P-50 CH<330U>
	87-026-289-080	TR,DTC143XS		C214	87-018-147-080	CAP,TCU	10P-50 CH<G,K,EZ>
	87-A30-092-080	FET,2SK439E/F		C214	87-018-145-080	CAP,TCU	6.8P-50 CH<330U>
	89-305-352-380	TR,2SC535 (B/C)		C219	87-010-544-080	CAP,E	0.1-50 SME
	89-319-233-080	TR,2SC1923<LH,325U,330U>		C220	87-010-544-080	CAP,E	0.1-50 SME
	87-026-214-080	TR,DTA114YS		C221	87-018-211-080	CAP,TCU	0.01-50 Z F<G,K,EZ>
	87-026-269-080	TR,DTA114ES<G,K,EZ>		C222	87-018-211-080	CAP,TCU	0.01-50 Z F<G,K,EZ>
	87-026-215-080	TR,DTC114YS<EZ>		C225	87-016-586-080	CAP,E	470-25 M SSL<325U>
	89-320-011-080	TR,2SC2001<G,K,EZ>		C225	87-016-594-010	CAP,E	1000-35 SME<LH,G,K,EZ>
	89-420-612-010	TR,2SD2061E<EXP 330U>		C225	87-010-410-080	CAP,E	330-50 SME<330U>
DIODE				C226	87-010-408-080	CAP,E	47-50 SME
	87-070-274-080	DIODE,1N4003 SEM		C227	87-010-405-080	CAP,E	10-50 SME
	87-070-178-090	DIODE,1N5402-BD54		C292	87-018-134-080	CAP,TCU	0.01-16<G,K,EZ>
	87-002-743-080	ZENER,MTZJ33B		C300	87-016-586-080	CAP,E	470-25M SSL<325U,LH>
	87-A40-246-080	DIODE,1N4148 T-72		C300	87-010-410-080	CAP,E	330-50 SME<330U>
	87-017-933-080	ZENER,MTZJ10D		C301	87-018-195-080	CAP,CER	1200P-16V
	87-001-731-080	ZENER,HZS6C2L		C302	87-018-195-080	CAP,CER	1200P-16V
	87-070-345-080	DIODE,1N4148		C303	87-010-263-080	CAP,E	100-10 SME
	87-A40-235-080	ZENER,MTZJ9.1C		C304	87-010-263-080	CAP,E	100-10 SME
	87-A40-234-080	ZENER,MTZJ5.6A		C309	87-010-546-080	CAP,E	0.33-50 SME
	87-017-437-08G	DIODE,1N4148M		C310	87-010-546-080	CAP,E	0.33-50 SME
	87-070-136-080	ZENER,MTZJ5.1B		C311	87-018-130-080	CAP,TCU	820P-50 B
	87-A40-003-080	ZENER,MTZJ4.3A		C312	87-018-130-080	CAP,TCU	820P-50 B
	87-020-465-08M	DIODE,1SS133		C314	87-010-260-080	CAP,E	47-25 SME
				C345	87-018-115-080	CAP,CER	47P-50V<G,K,EZ>
MAIN C.B	88-906-191-110	FF-CABLE,6P 1.25		C349	87-018-209-080	CAP,CER	0.1-50V<G,K,EZ>
	86-NFZ-632-010	WIRE,ANT<LH,325U,330U>		C351	87-018-195-080	CAP,CER	1200P-16V
	87-A10-570-090	CAP,E 3300-25 SME<325U>		C352	87-018-195-080	CAP,CER	1200P-16V
	87-A10-588-090	CAP,E 3300-35 RSS<G,K,EZ>		C353	87-010-263-080	CAP,E	100-10 SME
	87-016-043-090	CAP,E 3300-50 VR<330U>		C354	87-010-263-080	CAP,E	100-10 SME
	87-A10-515-090	CAP E 2200-25 SME<325U>		C360	87-010-370-080	CAP,E	330-6.3 SME
	87-A10-587-090	CAP,E 2200-35 RSS<G,K,EZ>		C390	87-018-209-080	CAP,CER	0.1-50V<G,K,EZ>
	87-016-043-090	CAP,E 3300-50 VR<330U>		C391	87-018-115-080	CAP,CER	47P-50V<G,K,EZ>
	87-018-127-080	CAP,TCU 470P-50 K B		C395	87-018-134-080	CAP,TCU	0.01-16<EZ>
	87-010-260-080	CAP,E 47-25 SME		C401	87-010-401-080	CAP,E	1-50 SME
	87-010-101-080	CAP,E 220-16 SME		C402	87-010-401-080	CAP,E	1-50 SME
				C403	87-018-118-080	CAP,TCU	82P-50 B
				C404	87-018-118-080	CAP,TCU	82P-50 B
				C452	87-010-385-080	CAP,E	220-25 SME
				C458	87-018-131-080	CAP,CER	1000P-50V

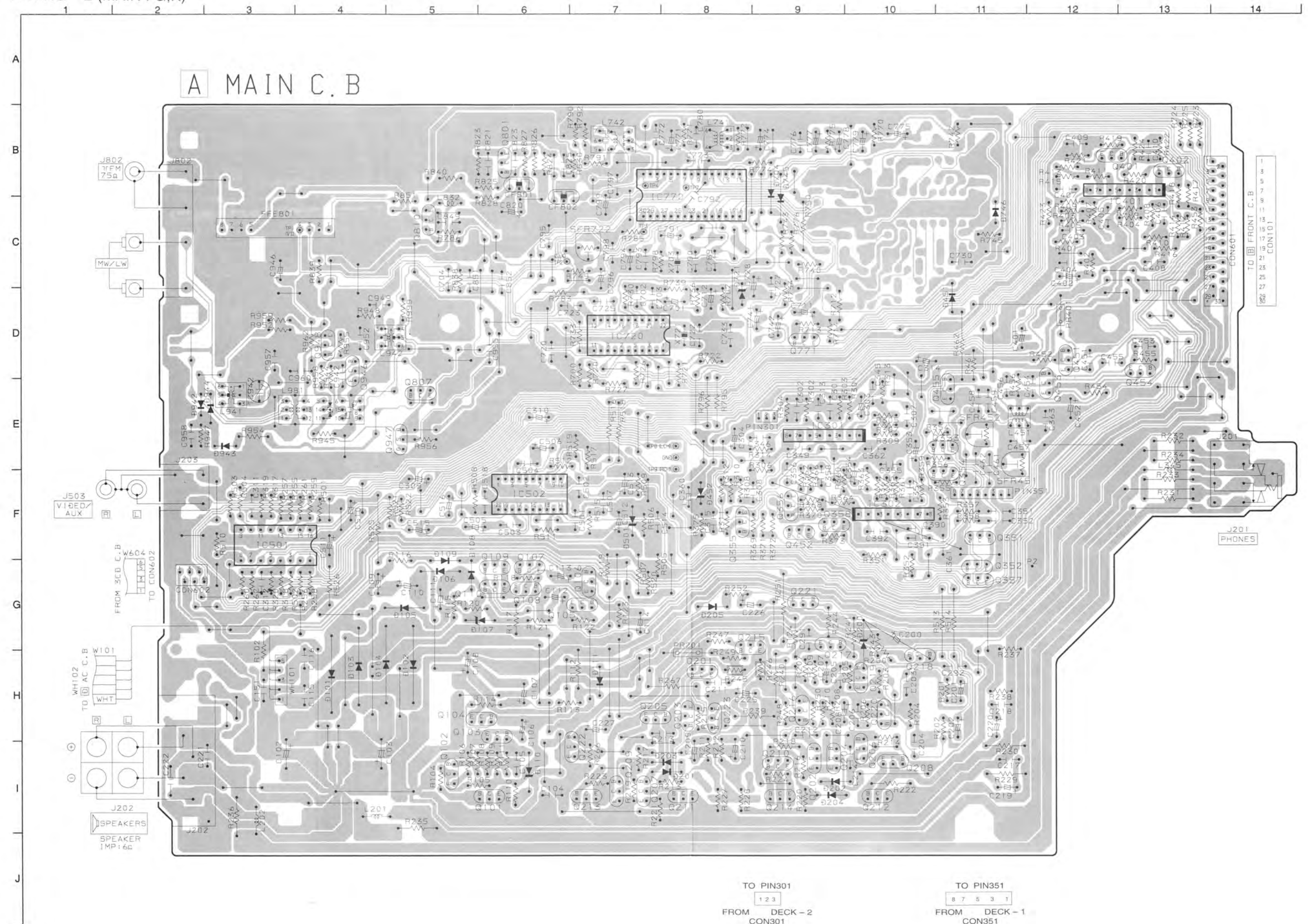
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C459	87-018-128-080		CAP,CERA-SOL SS 560P	C900	87-018-134-080		CAP,TCU 0.01-16<325U,330U>
C461	87-018-126-080		CAP,TCU 390P-50 B	C903	87-010-401-080		CAP,E 1-50 SME<LH,325U,330U>
C462	87-018-126-080		CAP,TCU 390P-50 B	C942	87-018-141-080		CAP,CERA-SOL SS 3.3P CH<G,K,EZ>
C505	87-010-401-080		CAP,E 1-50 SME	C942	87-018-147-080		CAP,TC-U 10P-50CH<LH,325U,330U>
C506	87-010-401-080		CAP,E 1-50 SME	C946	87-010-401-080		CAP,E 1-50 SME<G,K,EZ>
C510	87-010-405-080		CAP,E 10-50 SME	C949	87-014-049-080		CAP,PP 470P-100 J<G,K,EZ>
C511	87-010-260-080		CAP,E 47-25 SME	C952	87-018-134-080		CAP,TCU 0.01-16<G,K,EZ>
C512	87-010-260-080		CAP,E 47-25 SME	C955	87-018-134-080		CAP,TCU 0.01-16<G,K,EZ>
C513	87-010-221-080		CAP,E 470-10 SME	C957	87-018-147-080		CAP,TC-U 10P-50 CH<G,K,EZ>
C515	87-015-951-080		CAP,E 1-50 M LL	C958	87-018-134-080		CAP,TCU 0.01-16<G,K,EZ>
C516	87-015-951-080		CAP,E 1-50 M LL	C960	87-018-209-080		CAP,CER 0.1-50V<G,K,EZ>
C517	87-018-134-080		CAP,TCU 0.01-16<EZ>	C980	87-018-134-080		CAP,TCU 0.01-16<G,K,EZ>
C518	87-018-134-080		CAP,TCU 0.01-16	CF801	87-008-423-080		CF,SFE10.7 MS3G-A<G,K,EZ>
C551	87-018-115-080		CAP,CER 47P-50V<EZ>	CF801	87-008-261-010		FILTER,SFE10.7MA5-A<EXP G,K,EZ>
C552	87-018-115-080		CAP,CER 47P-50V<EZ>	CF802	82-785-747-080		CF,MS2 GHY,R<G,K,EZ>
C553	87-018-115-080		CAP,CER 47P-50V<EZ>	D801	87-A40-226-080		VARI-CAP,SVC251SPA<EXP G,K,EZ>
C701	87-010-404-080		CAP,E 4.7-50 SME	D802	87-A40-226-080		VARI-CAP,SVC251SPA<EXP G,K,EZ>
C704	87-018-131-080		CAP,CER 1000P-50V<G,K,EZ>	F201	87-026-690-080		FUSE,5A 125V 251<325U>
C711	87-010-260-080		CAP,E 47-25 SME	FFE801	A8-6ZA-191-030		6ZA-1 FEENM<G,K,EZ>
C712	87-010-112-080		CAP,E 100-16 SME	J201	87-A60-024-010		JACK 6.3BLK W/S WKM
C722	87-018-149-080		CAP,TCU 15P-50 CH	J202	87-A60-238-010		TERMINAL,SP 4P (MSC)
C728	87-010-248-080		CAP,E 220-10 SME	J203	87-099-715-010		JACK,PIN 2P
C730	87-018-134-080		CAP,TCU 0.01-16<G,K,EZ>	J802	87-033-241-010		TERMINAL,ANT AJ-2039<G,K,EZ>
C733	87-018-148-080		CAP,TCU 12P-50 CH	L201	87-005-366-010		COIL,1UH<G,K,EZ>
C741	87-010-546-080		CAP,E 0.33-50 SME<LH,325U,330U>	L202	87-005-366-010		COIL,1UH<G,K,EZ>
C741	87-010-401-080		CAP,E 1-50 SME<G,K,EZ>	L345	87-A50-067-080		COIL,1 UH CES
C742	87-010-546-080		CAP,E 0.33-50 SME<LH,325U,330U>	L451	87-007-342-010		COIL,OSC 85K BIAS
C742	87-010-401-080		CAP,E 1-50 SME<G,K,EZ>	L741	87-A50-015-010		COIL,FM DET(TOK)
C771	87-010-405-080		CAP,E 10-50 SME	L742	87-A90-245-010		FLTR,CFAZH-450 (TOK)
C773	87-018-208-080		CAP,E 0.047-50F	L801	87-A50-110-010		COIL,FM BPF EX<LH,325U,330U>
C774	87-010-263-080		CAP,E 100-10 SME	L802	87-006-244-010		COIL,RF FM 3-1/2T<LH,325U,330U>
C775	87-010-405-080		CAP,E 10-50 SME	L803	87-006-246-010		COIL,RF FM 3-1/2T<LH,325U,330U>
C777	87-010-400-080		CAP,E 0.47-50 SME	L804	87-005-847-080		COIL,2.2UH(CECS)<LH,325U,330U>
C778	87-010-401-080		CAP,E 1-50 SME	L805	87-A50-111-110		COIL,FM OSC EX<LH,325U,330U>
C779	87-010-401-080		CAP,E 1-50 SME	L806	86-ZA1-604-010		IFT,FM IFT 7-6.2<LH,325U,330U>
C791	87-010-401-080		CAP,E 1-50 SME	L807	87-005-847-080		COIL,2.2UH(CECS)<LH,325U,333U>
C792	87-018-196-080		CAP,CER 1500P-16V<LH,325U,330U>	L832	87-005-847-080		COIL,2.2UH(CECS)<G,K,EZ>
C792							

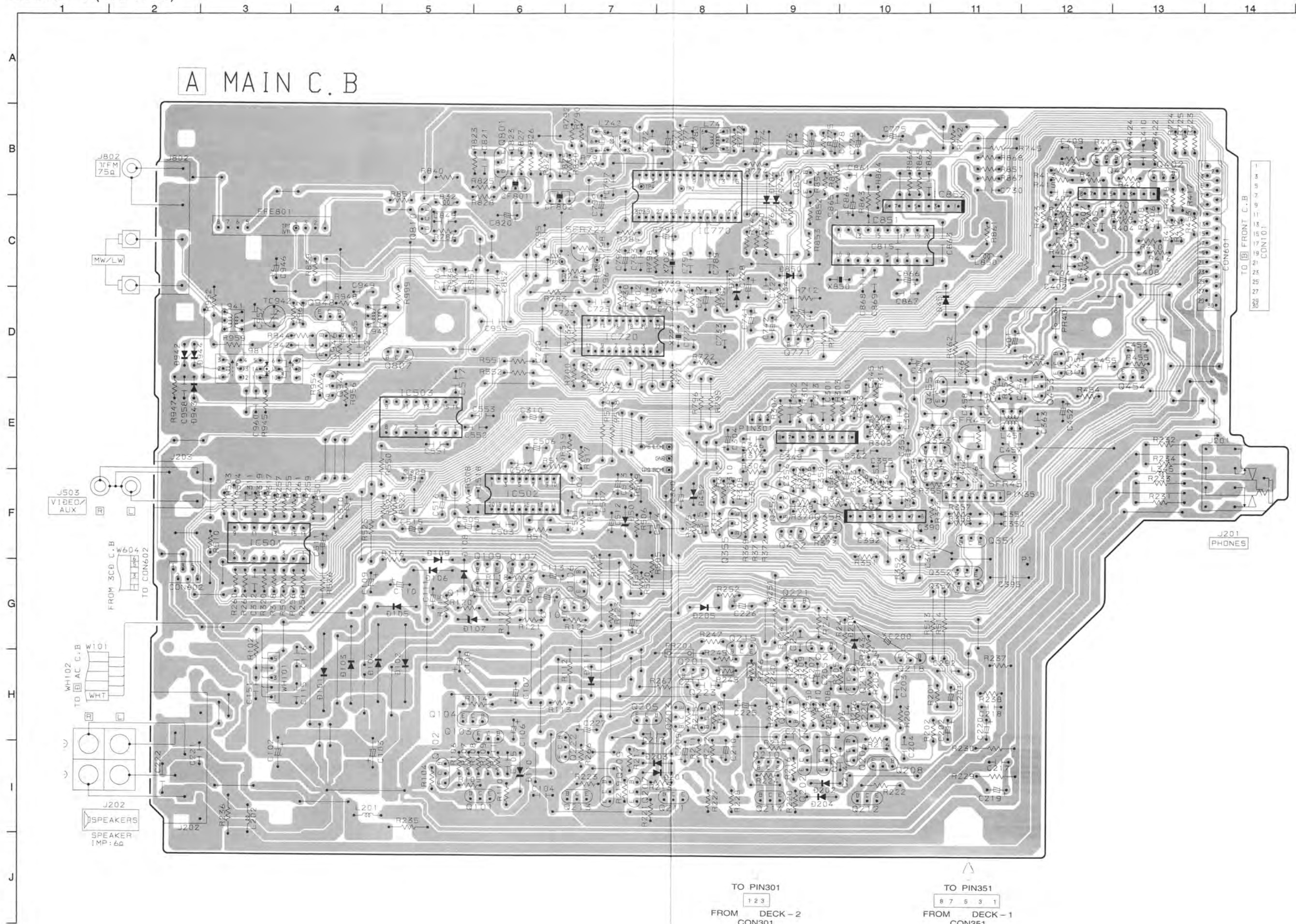


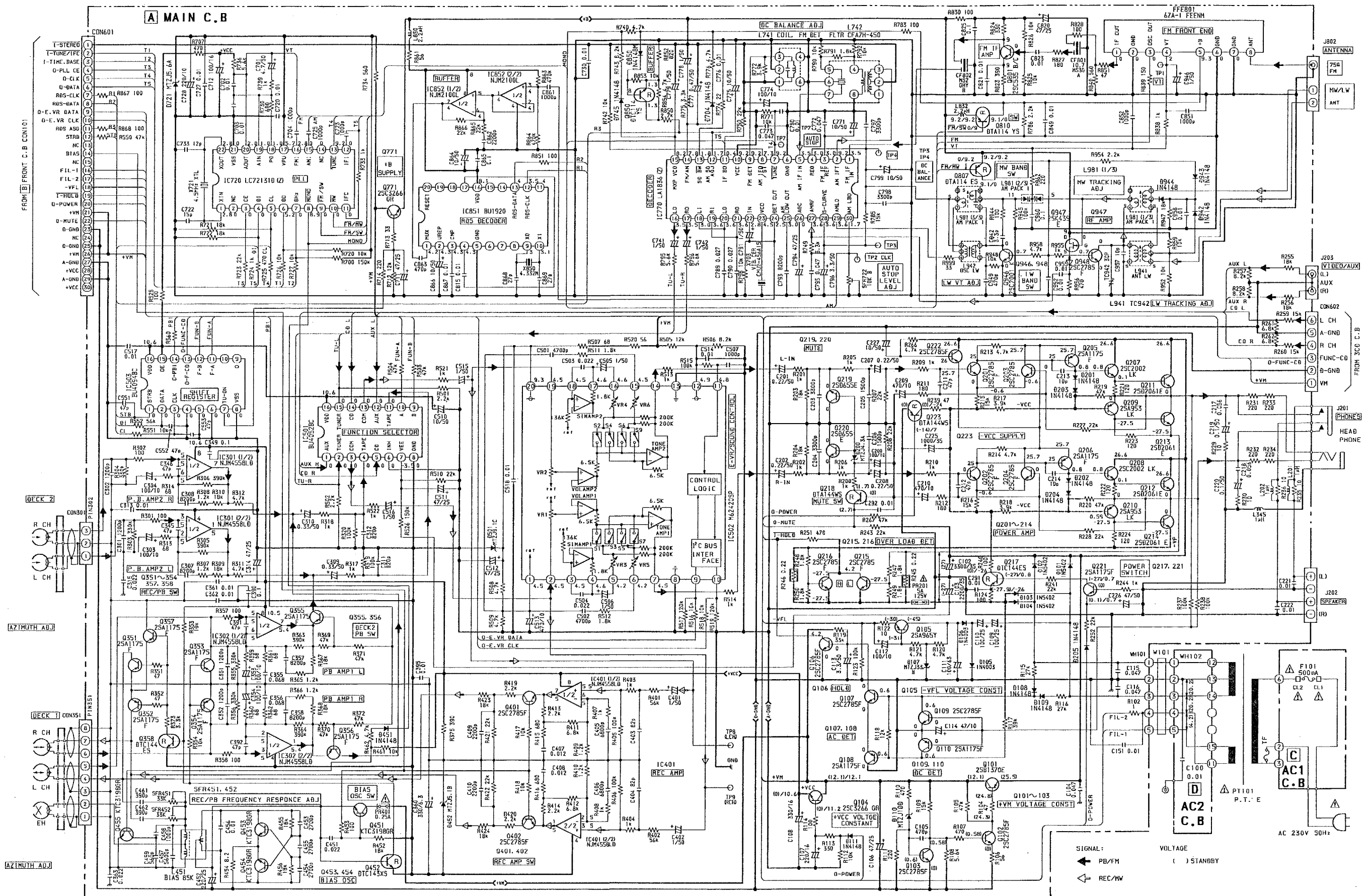












TRANSISTOR ILLUSTRATION

ECB

2SC1923
2SC3266
2SC535
KTC3198

ECB

2SA953
2SC2001
2SC2002
2SD655E
2SA965
2SC2235

ECB

2SA1175
2SC2785
DTA114ES
DTA114YS
DTA144WS
DTC143XS
DTC144ES

C
B
E

RN1410
DTA143EK

BCE

2SB1370
2SD2061
2SD1897
2SD2061

GSD

2SK439

FL GRID ASSIGNMENT

11G 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G

11G ~ 10G

[8G]

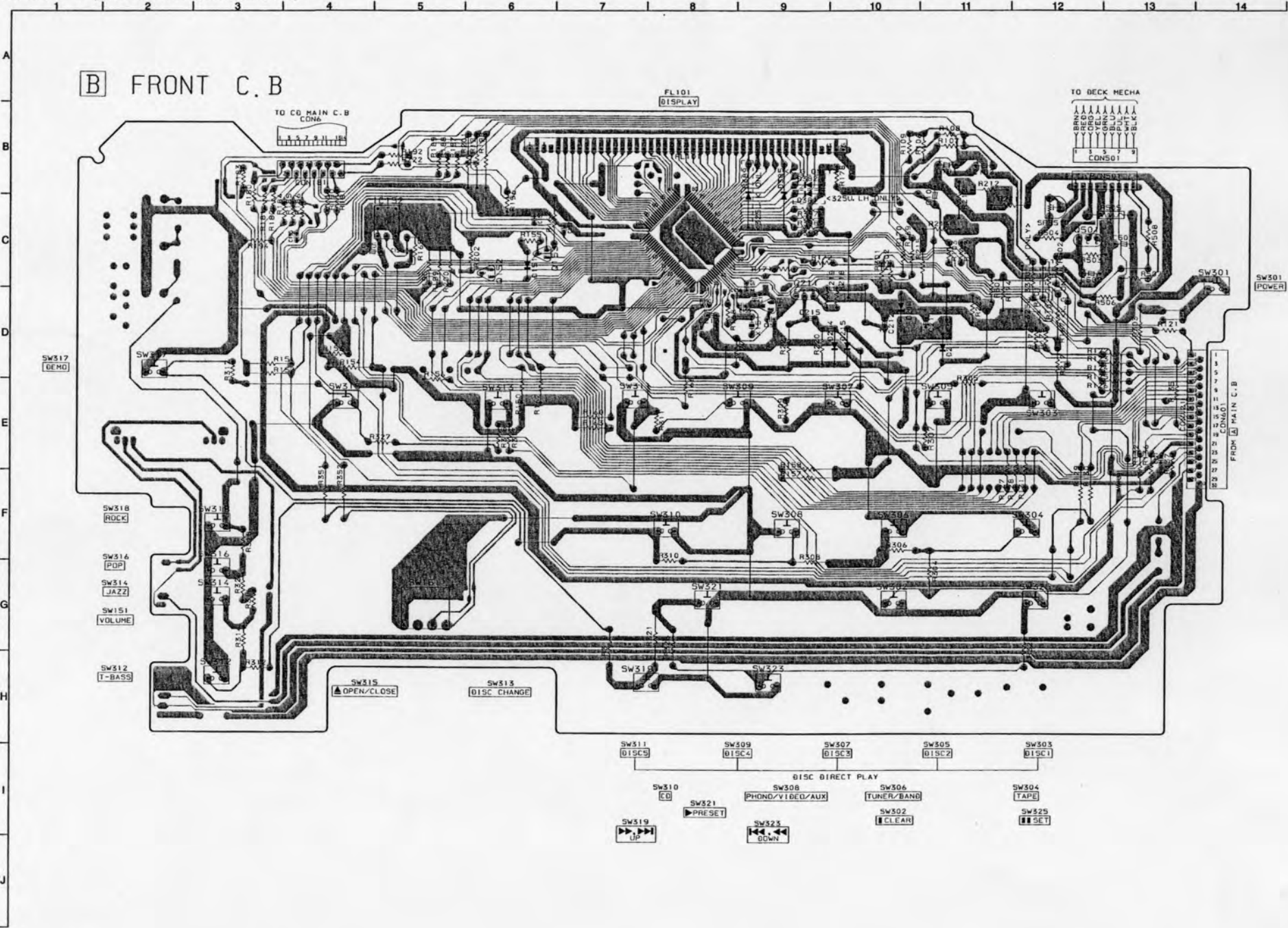
[9G ~ 2G]

[7G ~ 3G]

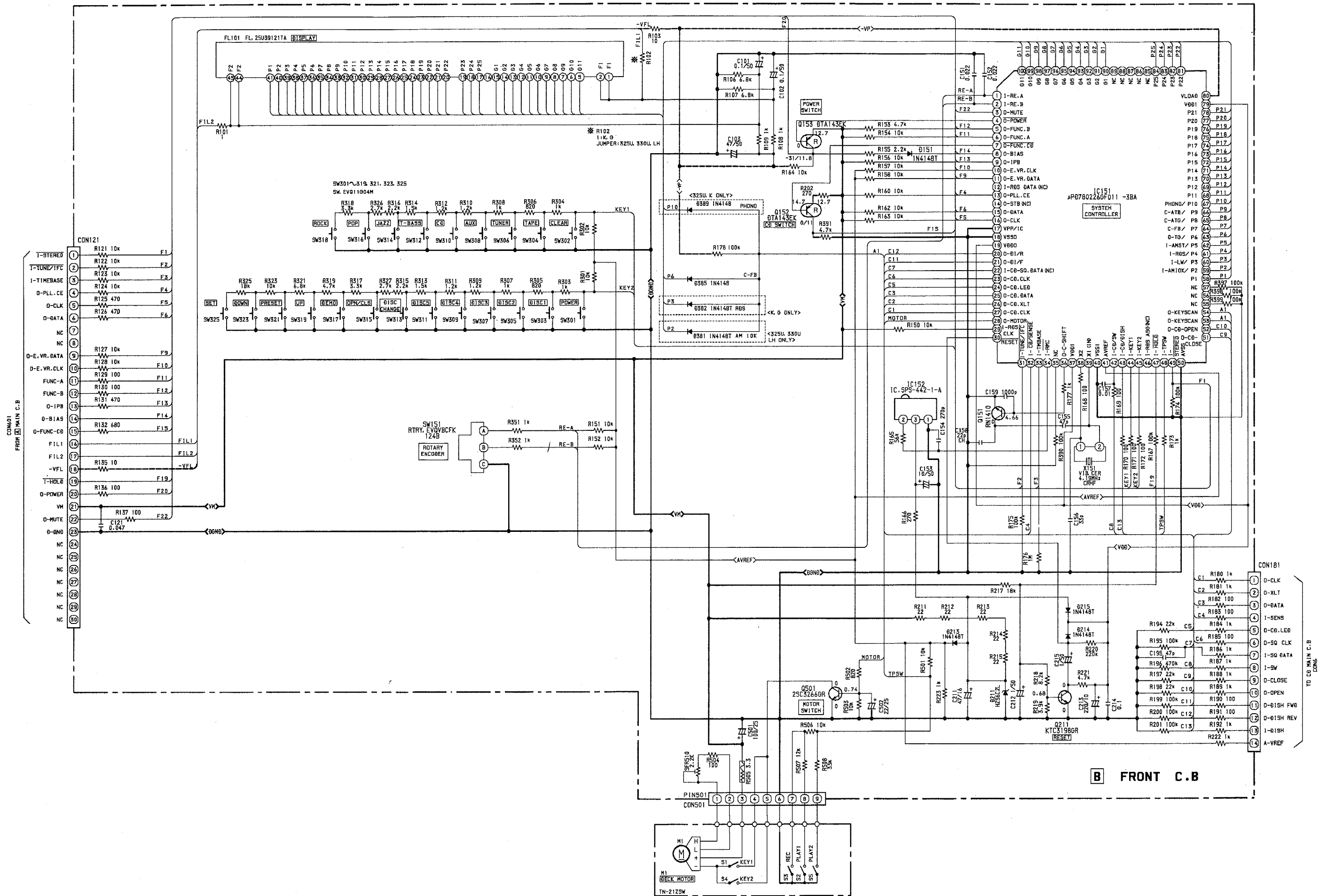
ADONE CONNECTION

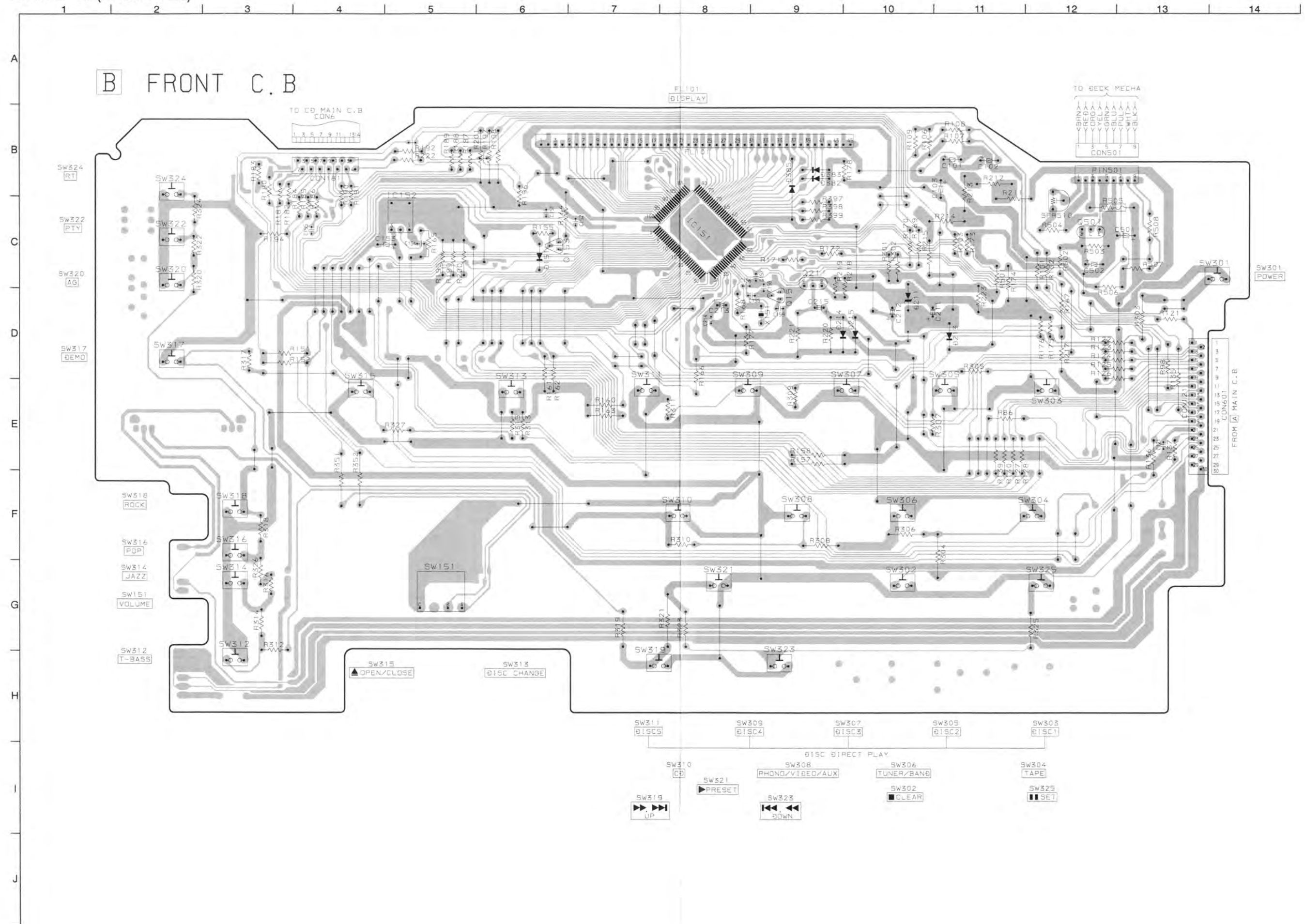
	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S4	RANDOM	—	—	—	—	—	—	—	—	S9
P2	S5	2a	2a	2a	2a	2a	2a	2a	2a	2a	20
P3	4a, 4d	2a, 2d	2a	2a	2a	2a	2a	2a	2a	2a	19
P4	4e	2e	2i, 2p	2i, 2p	2i, 2p	2i, 2p	2i, 2p	2i, 2p	2i, 2p	2i, 2p	18
P5	4c	2c	2r	2r	2r	2r	2r	2r	2r	2r	17
P6	4q	2q	2e	2e	2e	2e	2e	2e	2e	2e	16
P7	4i	2i	2c	2c	2c	2c	2c	2c	2c	2c	15
P8	4b	2b	2q	2q	2q	2q	2q	2q	2q	2q	14
P9	S2	2a	2a	2a	2a	2a	2a	2a	2a	2a	13
P10	3a, 3d	1a, 1d	2i	2i	2i	2i	2i	2i	2i	2i	12
P11	3e	1e	2b	2b	2b	2b	2b	2b	2b	2b	11
P12	3c	1c	2k	2k	2k	2k	2k	2k	2k	2k	10
P13	3q	1q	2h	2h	2h	2h	2h	2h	2h	2h	9
P14	3i	1i	2a	2a	2a	2a	2a	2a	2a	2a	8
P15	3b	1b	—	SLEEP	RDS	TRAFFIC	EON	AG	—	—	7
P16	5a, 5d	EDIT	—	1b, 1c	RT	—	—	—	—	—	6
P17	1a	—	—	—	—	—	—	—	—	—	5
P18	1i	—	—	—	—	—	—	—	—	—	4
P19	1q	S8	—	—	1d	1d	1d	1d	1d	1d	3
P20	1c	S7	—	PM	1e	1e	1e	1e	1e	1e	2
P21	1e	S6	T-BASS	—	1c	1c	1c	1c	1c	1c	1
P22	S5	—	B1	—	1q	1q	1q	1q	1q	1q	—
P23	S1	—	B2	1q	1i	1i	1i	1i	1i	1i	—
P24	—	—	B3	AM	1b	1b	1b	1b	1b	1b	—
P25	—	—	ROCK POP JAZZ	—	1a	1a	1a	1a	1a	1a	—

WIRING - 4 (FRONT : 325U,330U,LH,G,K)

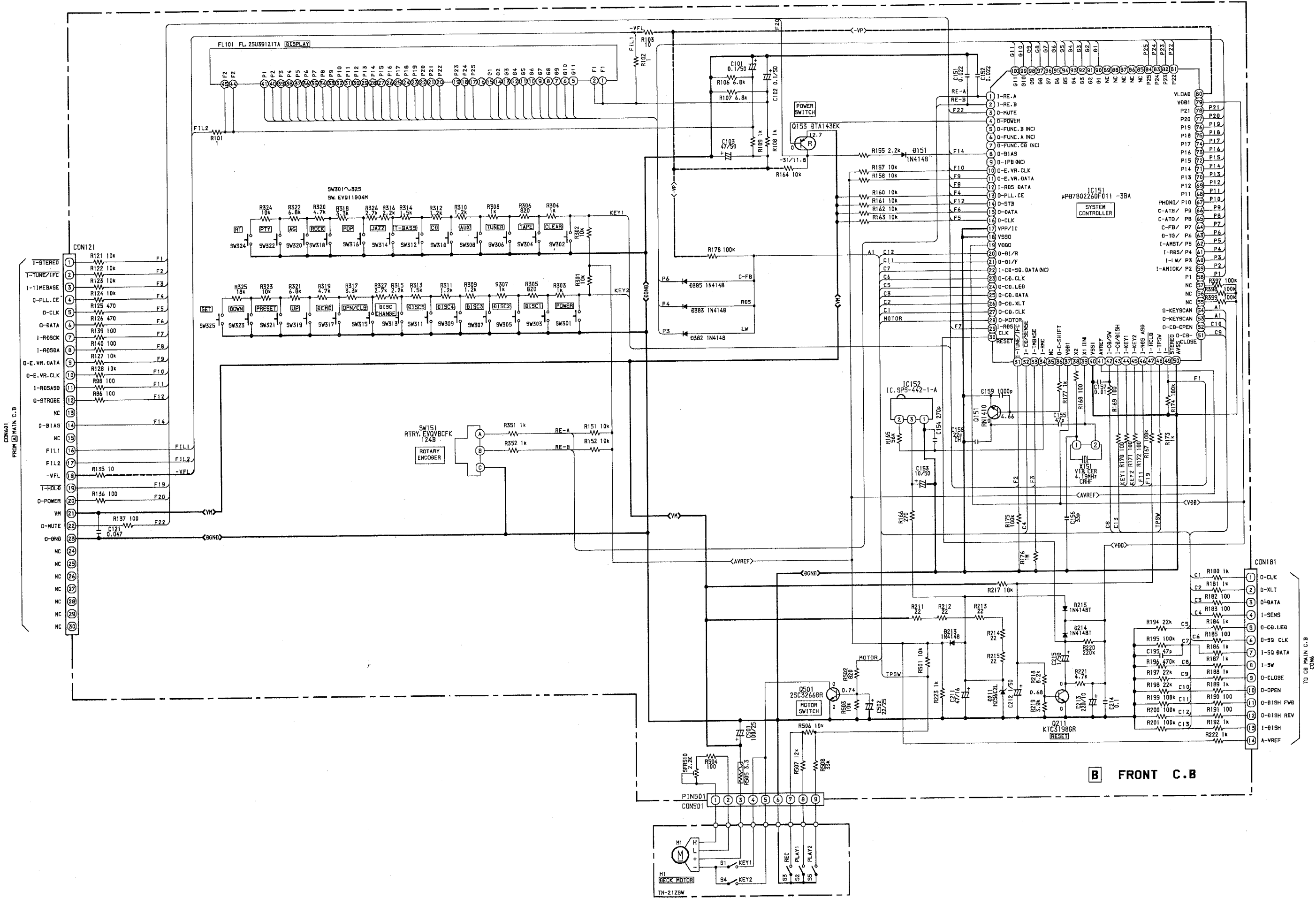


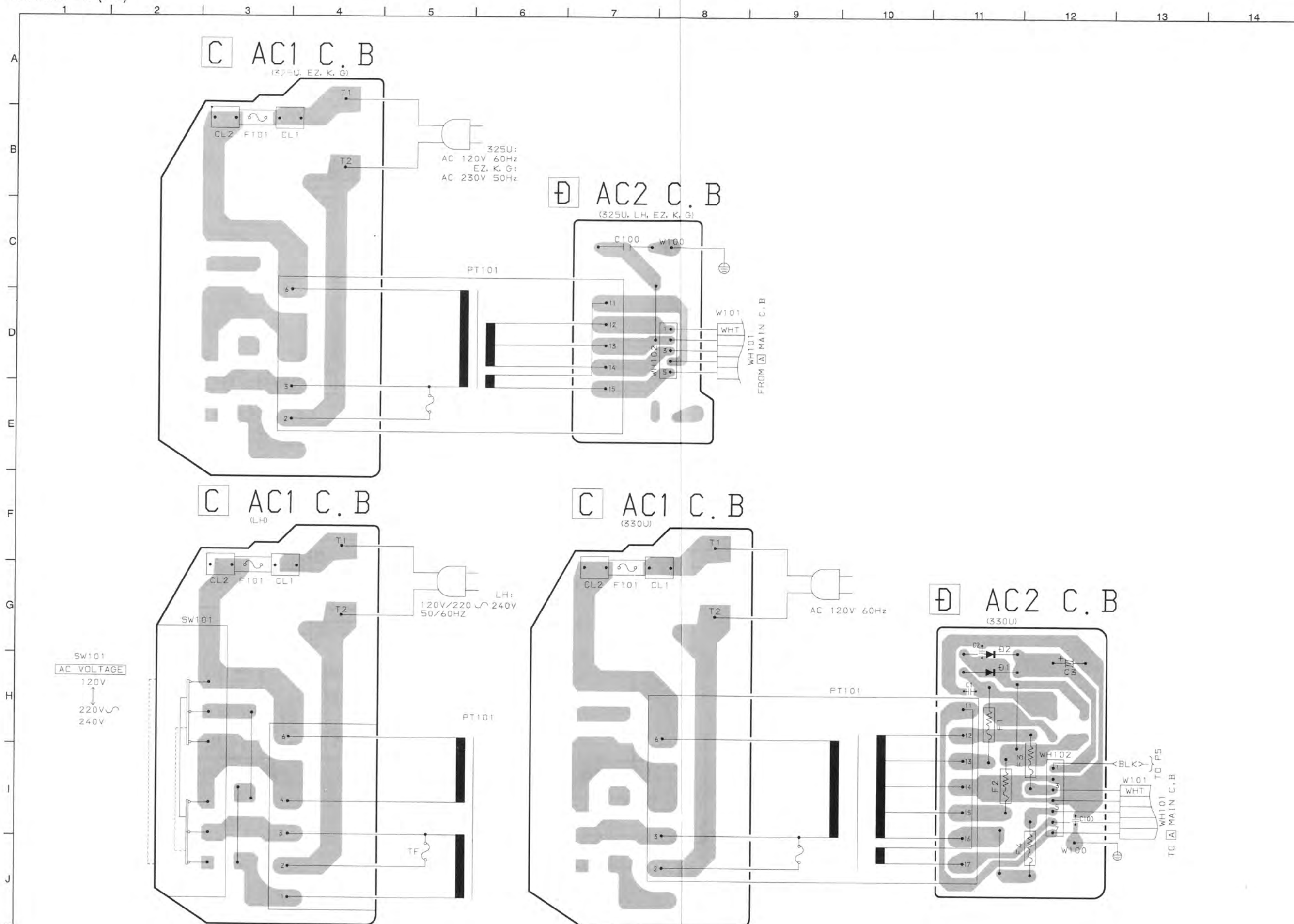
SCHEMATIC DIAGRAM - 6 (FRONT : 325U,LH,G,K)



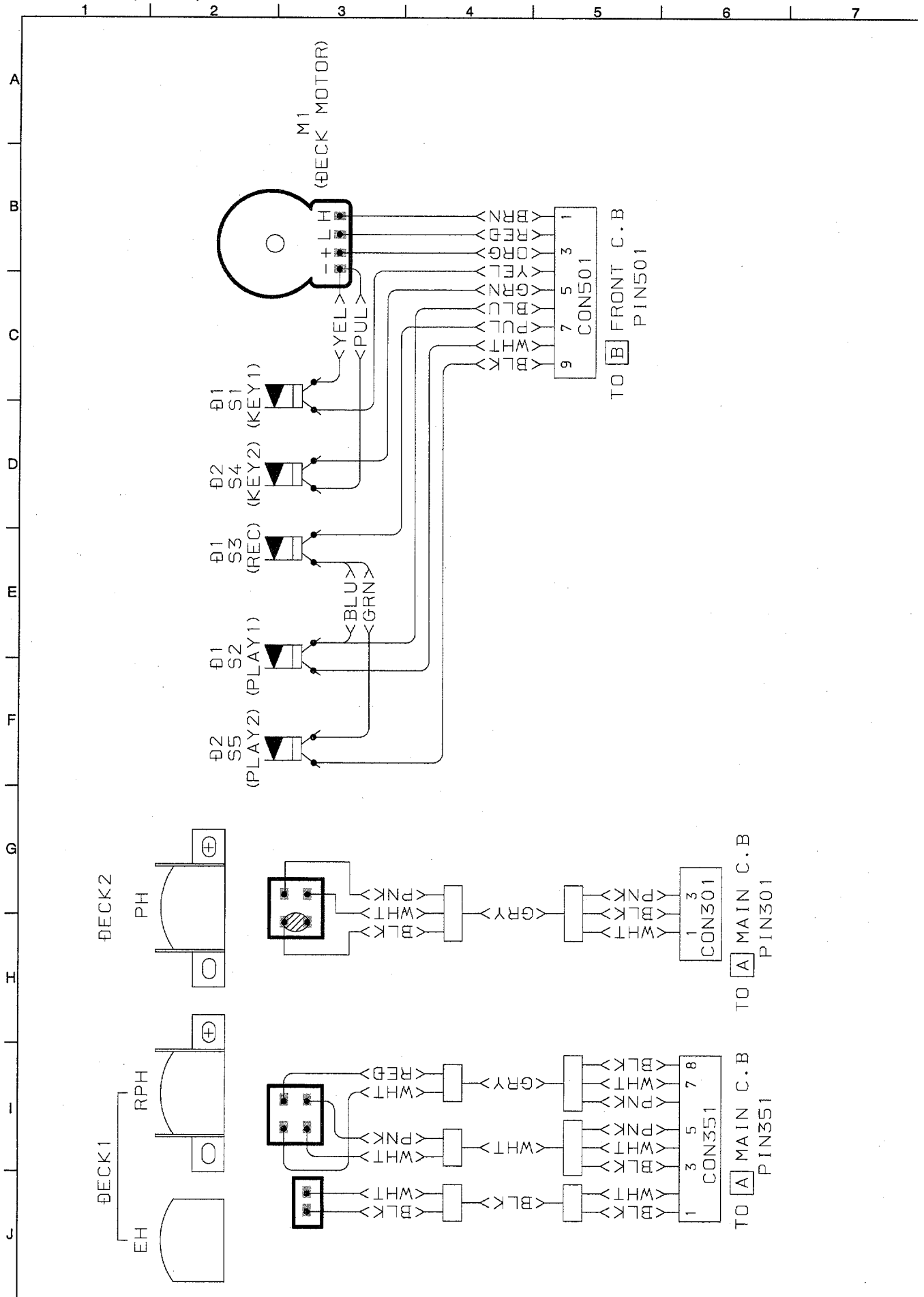


SCHEMATIC DIAGRAM - 7 (FRONT : EZ)

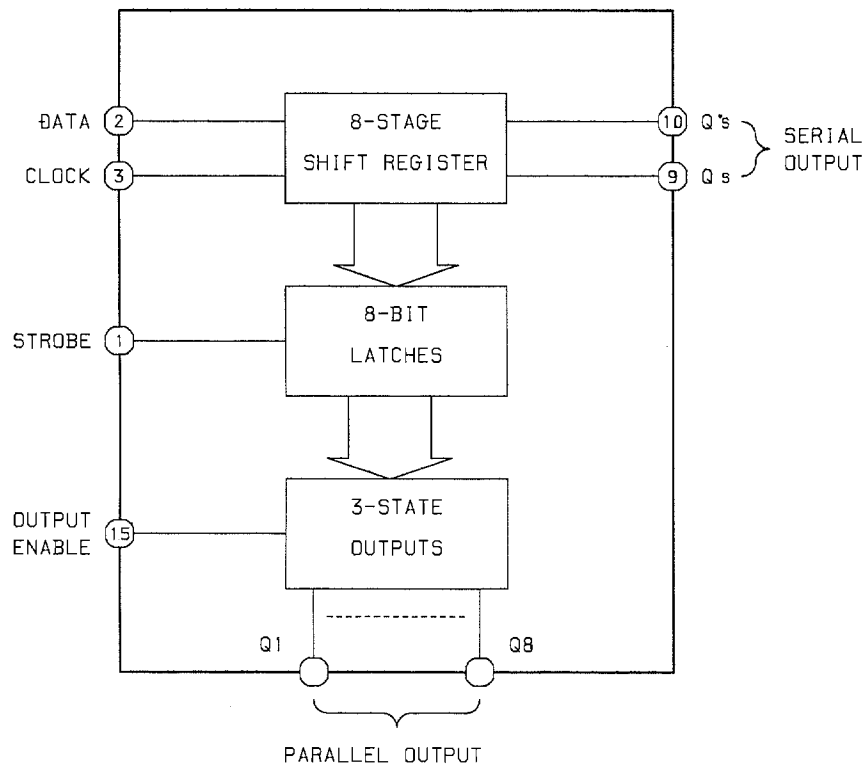




WIRING - 7 (DECK)



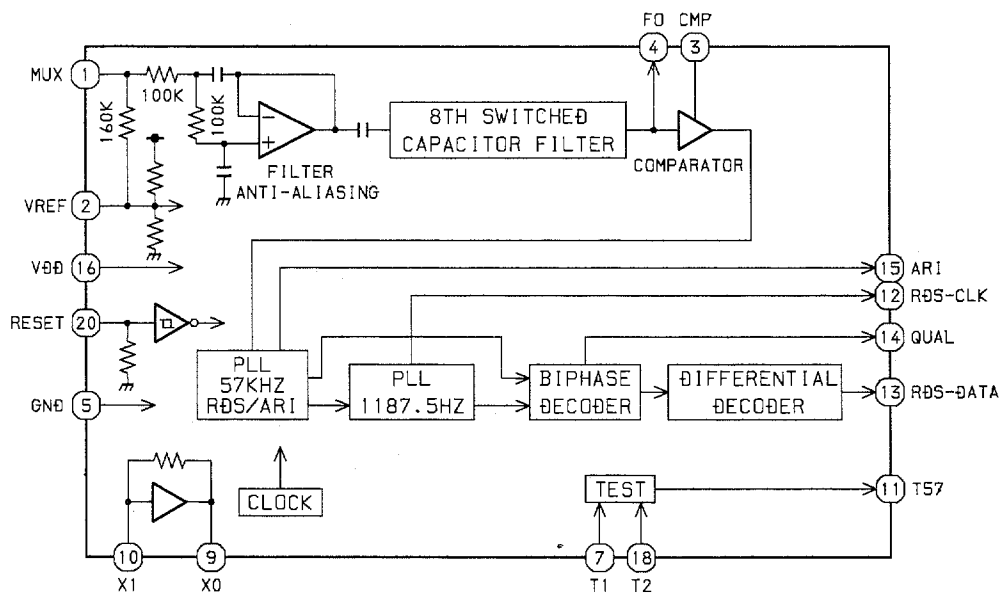
IC BLOCK DIAGRAM
IC, BU4094BCP



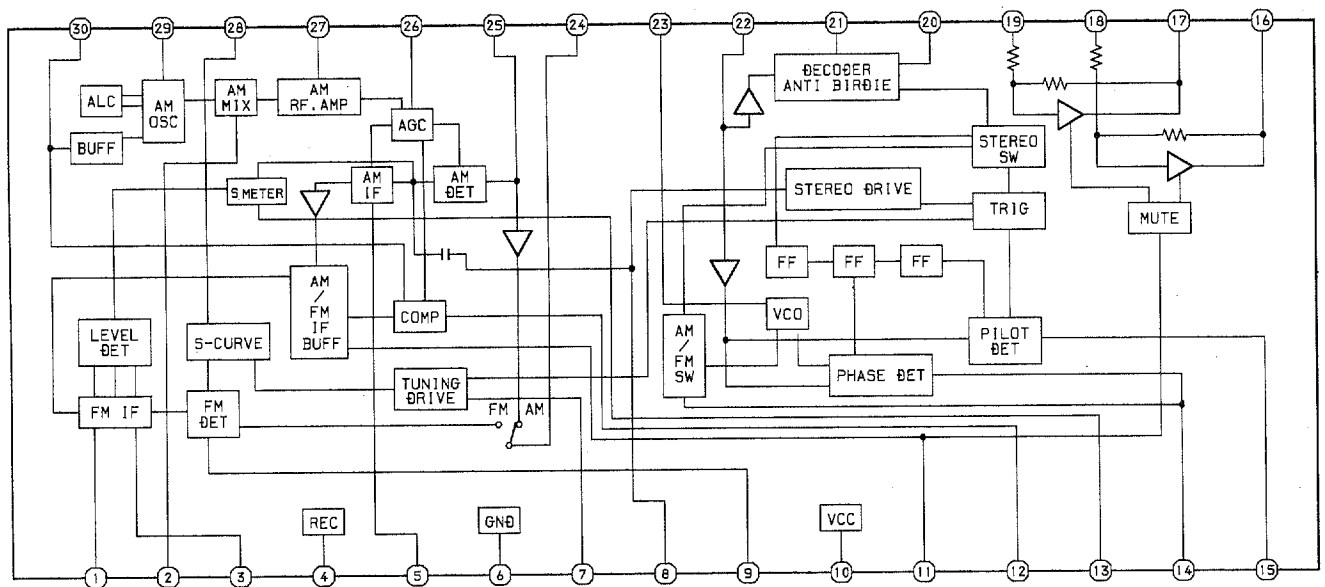
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Qs
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qs

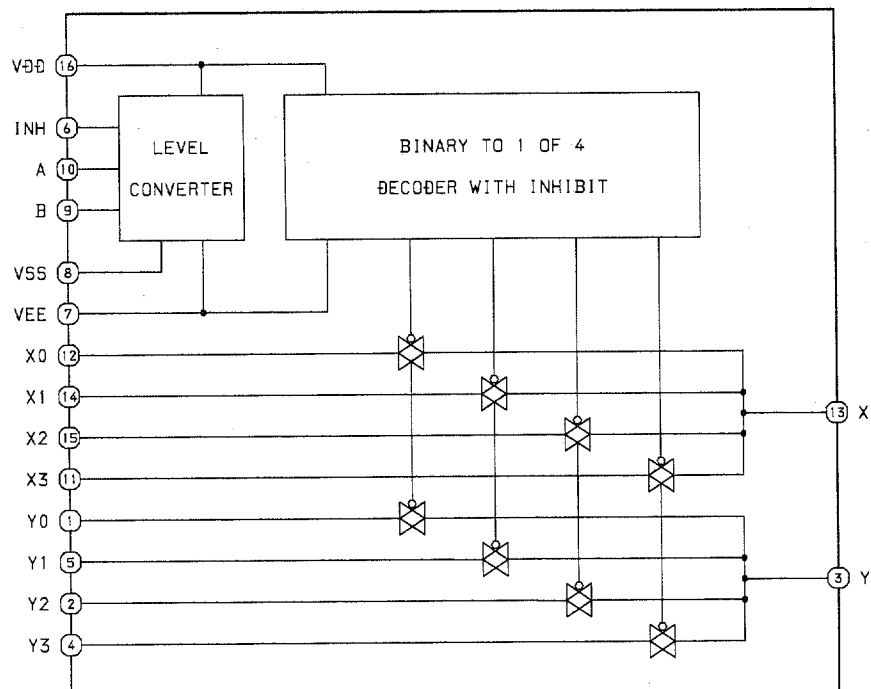
IC, BU1920



IC, LA1836



IC, BU4052BCP



TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X: DON'T CARE.

IC DESCRIPTION

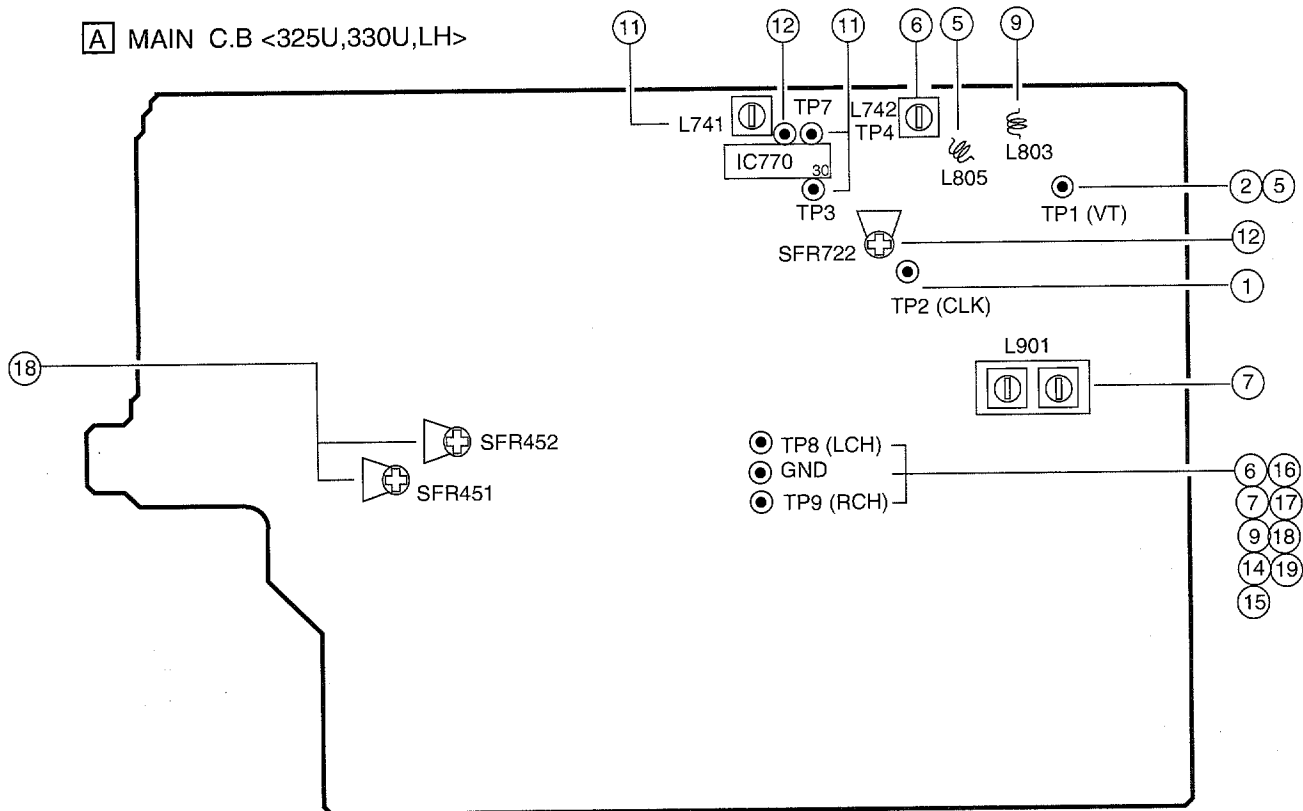
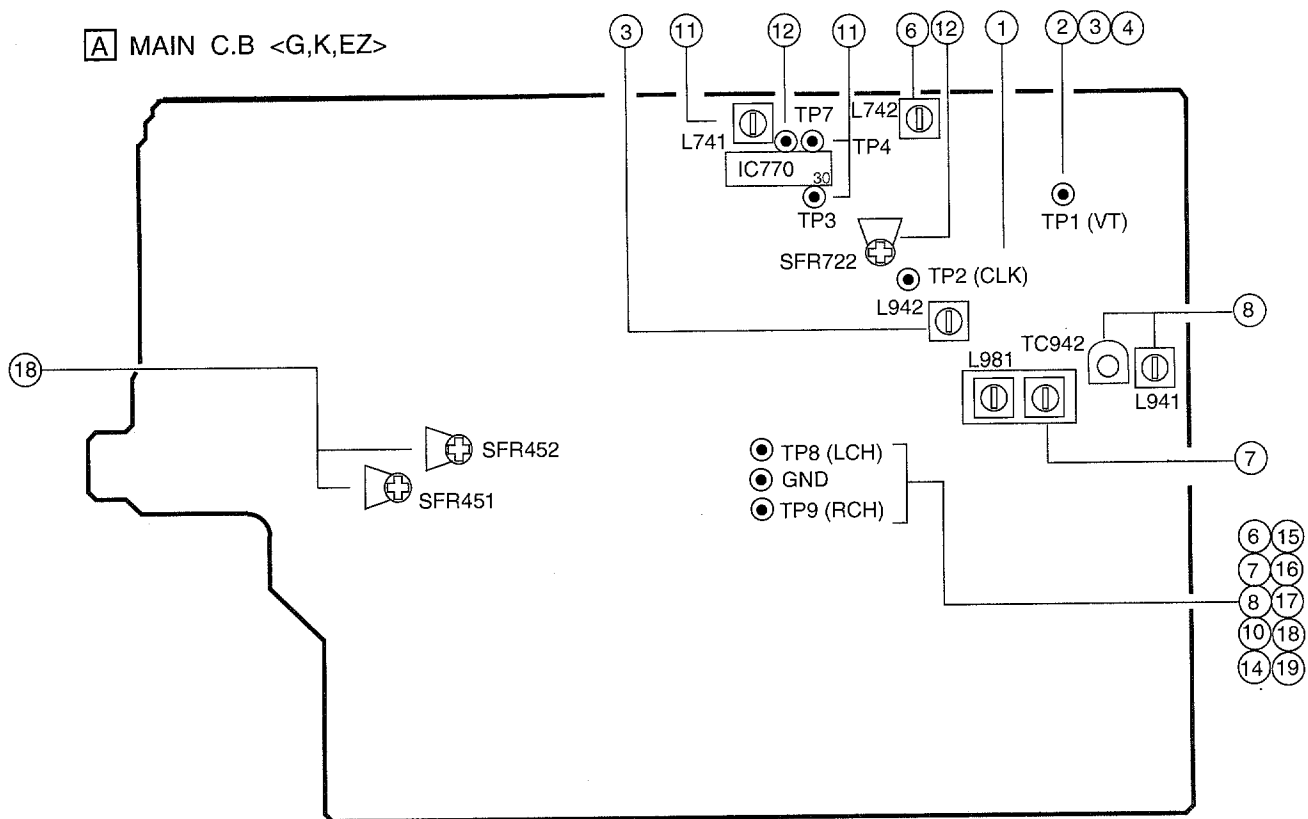
IC, μ PD780226GF-011-3BA

Pin No.	Pin Name	I/O	Description															
1	I-RE.A	I	Rotary encoder input A.															
2	I-RE.B	I	Rotary encoder input B.															
3	O-MUTE	O	System mute output.															
4	O-POWER	O	System power supply $\overline{\text{ON}}$ /OFF output.															
5	O-FUNC.B	O	Function switch output. <table><tr><td></td><td>AUX</td><td>TUNER</td><td>CD</td><td>TAPE</td></tr><tr><td>O-FUNCA</td><td>0</td><td>0</td><td>1</td><td>1</td></tr><tr><td>O-FUNCB</td><td>0</td><td>1</td><td>0</td><td>1</td></tr></table>		AUX	TUNER	CD	TAPE	O-FUNCA	0	0	1	1	O-FUNCB	0	1	0	1
	AUX		TUNER	CD	TAPE													
O-FUNCA	0		0	1	1													
O-FUNCB	0	1	0	1														
6	O-FUNC.A																	
7	O-FUNC.CD	O	CD function switch output. ($\overline{\text{ON}}$ /OFF)															
8	O-BIAS	O	Bias OSC switch output. (ON/ $\overline{\text{OFF}}$)															
9	O-IPB	O	Playback Deck 1 and 2 switch output.															
10	O-E.VR.CLK	O	Electrical volume clock output.															
11	O-E.VR.DATA	O	Electrical volume data output.															
12	I-RDS.DATA	I	RDS data input.															
13	O-PLL.CE	O	PLL IC chip enable.															
14	O-STB	O	Strobe output for Main C.B.															
15	O-DATA	O	Data output for Main C.B.															
16	O-CLK	O	Clock output for Main C.B.															
17	VPP/IC	-	GND.															
18	VSSO	-	GND.															
19	VDDO	-	Power supply.															
20	O-DI/R	O	CD turntable reverse rotation output.															
21	O-DI/F	O	CD turntable forward rotation output.															
22	I-CD.SQ.DATA	I	CD SQ data input.															
23	I-CD.SQ.CLK	I	CD SQ clock input.															
24	O-CD.LED	O	CD window LED output.															
25	O-CD.DATA	O	CD data output.															
26	O-CD.XLT	O	CD strobe output signal.															
27	O-CD.CLK	O	CD clock output.															
28	O-MOTOR	O	Deck motor output.															
29	I-RDS.CLK	I	RDS clock input.															
30	RESET	I	Reset input.															
31	I-TUNE/IFC	I	Tuner SD detected input. IF count serial data input.															
32	I-CD/SENSE	I	CD SQ ready.															
33	I-TMBASE	I	Reference clock input for timer watch.															
34	I-RMC	I	System remote control signal input.															
35	NC	-	Not used.															
36	O-C-SHIFT	O	System clock shift control output.															
37	VDD1	-	Power supply input.															
38,39	X2,X1	O/I	4.19MHz oscillator circuit.															
40	VSS1	-	GND.															

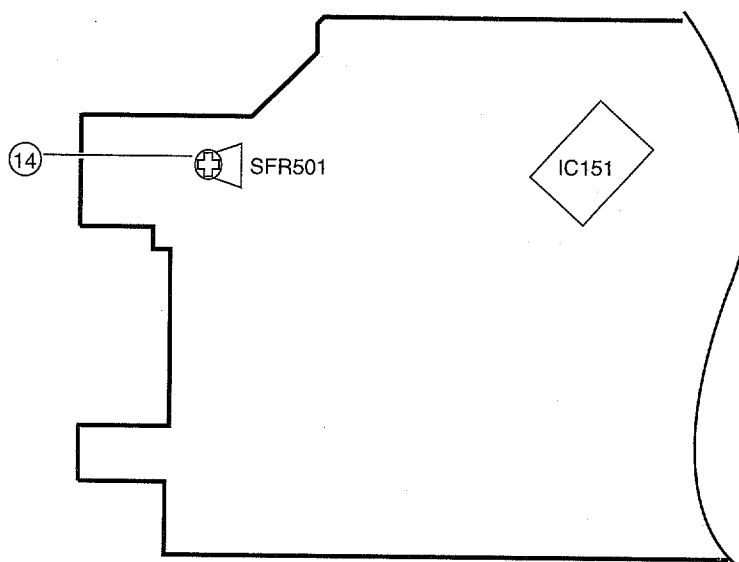
Pin No.	Pin Name	I/O	Description
41	AVREF	-	Reference voltage.
42	I-CD/SW	I	CD mechanical switch A/D converter input.
43	I-CD/DISH	I	CD turntable photo sensor A/D converter input.
44,45	I-KEY1,2	I	Key input. (A/D)
46	I-RDS ASG	I	Auto preset signal input.
47	I-HOLD	I	Power failure detected input "L" to stop clock and maintain memory.
48	I-TPSW	I	Deck mechanical switch A/D converter input.
49	I-STEREO	I	Tuner stereo detected input.
50	AVSS	-	GND.
51	O-CD-CLOSE	O	CD tray close data output.
52	O-CD-OPEN	O	CD tray open data output.
53,54	O-KEYSCAN	O	Segment input enable. (for keyscan only)
55~57	NC	-	Not used.
58	P1	O	FL segment output P1.
59	I-AM10K/P2	O	AM 10K detection/FL segment output P2.
60	I-LW/P3	O	LW detection/FL segment output P3.
61	I-RDS/P4	O	RDS detection/FL segment output P4.
62	I-AMST/P5	O	AM stereo detection/FL segment output P5.
63	D-TG/P6	O	D-TG/FL segment output P6.
64	C-FB/P7	O	C-FB detection/FL segment output P7.
65	C-ATG/P8	O	C-ATG detection/FL segment output P8.
66	C-ATB/P9	O	C-ATB detection/FL segment output P9.
67	PHONO/P10	O	PHONO detection/FL segment output P10.
68~78	P11~P21	O	FL segment output P11~P21.
79	VDD1	-	Power supply input.
80	VLOAD	-	-VP.
81~84	P22~P25	O	FL segment output P22~P25.
85~89	NC	-	Not used.
90~100	G1~G11	O	FL grid output G1~G11.

Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	–	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (μPD780226GF-011-3BA) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (μPD780226GF-011-3BA).																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / AM	O	Output "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	–	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	–	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	–	Ground.																								

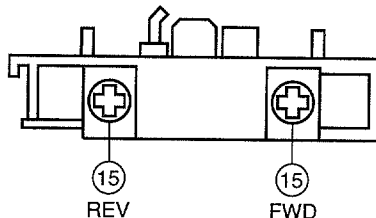
ADJUSTMENT <TUNER / DECK>



[B] FRONT C.B



DECK-1 P, DECK-2 R / P / E HEAD



< TUNER SECTION >

1. Clock Frequency Check

Settings : • Test point : TP2

Method : Set to AM(MW) 1602kHz[G,K,EZ], 1710kHz [325U,330U,LH] and check that the test point is $2052\text{kHz} \pm 0.08\text{kHz}$ [G,K,EZ], $2160\text{kHz} \pm 0.08\text{kHz}$ [325U,330U,LH].

2. MW VT Check

Settings : • Test point : TP1 (VT)

Method : Set to AM(MW) 1602kHz[G,K,EZ], 1710kHz [325U,330U,LH] and check that the test point is $5.6\text{V} \pm 1.0\text{V}$ [G,K,EZ], $6.2\text{V} \pm 1.0\text{V}$ [325U,330U, LH].

3. LW VT Adjustment <K,EZ>

Settings : • Test point : TP1 (VT)

• Adjustment location : L942

Method : Set to LW 144kHz and adjust L942 so that the test point is $1.3\text{V} \pm 0.05\text{V}$.

4. FM VT Check <G,K,EZ>

Settings : • Test point : TP1 (VT)

Method : Set to FM 87.5MHz and check that the test point is more than 1.5V. Then Set to FM 108.0MHz and check that the test point is less than 8.2V.

5. FM VT Adjustment <325U,330U,LH>

Settings : • Test point : TP1 (VT)

• Adjustment location : L805

Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.0V (87.5MHz) and adjust L805 so that the test point becomes $7.0\text{V} \pm 0.05\text{V}$ (108.0MHz).

6. AM(MW) IF Adjustment

Settings : • Test point : TP8, TP9

• Input level : adjustable

• Adjustment location : L742

Method : Set to AM(MW) 999kHz[G,K,EZ], 1000kHz[325U,330U,LH] and adjust L742 so that the test point becomes maximum.

7. AM(MW) Tracking Adjustment

Settings : • Test point : TP8, TP9

• Adjustment location :

L981 999kHz[G,K,EZ]

L901 1000kHz[325U,330U,LH]

Method : Set to AM(MW) 999kHz[G,K,EZ], 1000kHz[325U,330U,LH] and adjust L981[G,K,EZ], L901[325U,330U,LH] so that the test point become maximum.

8. LW Tracking Adjustment<K,EZ>

Settings : • Test point : TP8, TP9

• Adjustment location :

L941144kHz

TC942 290kHz

Method : Set up TC942 to center before adjustment. The level at 144kHz is adjust to maximum by L941. Then the level at 290kHz is adjust to maximum by TC942.

9. FM Tracking Adjustment<325U,330U,LH>

Settings : • Test point : TP8, TP9

• Adjustment location : L803

Method : 87.5MHz is adjusted to maximum by L803 then check usable sensitivity is $4\text{dB} \pm 6\text{dB}$ (108.0MHz).

10. FM Tracking Check <G,K,EZ>

Settings : • Test point : TP8,TP9

Method : Set to FM 98.0MHz and check that the test point is $10 \pm 6\text{dB}$.

11. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4

• Adjustment location : L741

• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.04\text{V}$.

Next, check that the distortion is less than 3%.

12. Auto Stop Level Adjustment

Settings : • Test point : TP7

• Adjustment location : SFR722

• Input level : 54dB

Method : Set to FM 98.0 MHz and adjust voltage low (about 0.1V) by SFR722. After that voltage high (about 7.0V) by 2dB down.

13. Auto Stop Level Check

AM(MW)

Method : Check auto stop at AM(MW) 999kHz[G,K,EZ], 1000kHz[325U,330U,LH] and the level is 43 ~ 68 dB.

FM

Method : Check auto stop at FM 98.0MHz and the level is $20\text{dB} \pm 10\text{dB}$.

< DECK SECTION >

14. Tape Speed Adjustment

Settings : • Test tape : TTA-410

• Test point : TP8, TP9

• Adjustment location : SFR501

Method : Play back the test tape and adjust SFR501 so that the frequency counter reads 3000Hz $\pm 5\text{Hz}$.

15. Head Azimuth Adjustment

Settings : • Test tape : TTA-410

• 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 and REV PLAY mode.

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

Settings : • Test tape : TTA-320

• Test point : TP8, TP9

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 $0 \pm 5\text{dB}$, Lch and Rch level less than 3.0dB.

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

Settings : • Test tape : TTA-210

• Test point : TP8, TP9

Method : Play back the test tape and check that the output level of the test point is $150\text{mV} \pm 3.0\text{dB}$.

18. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

• Input signal : 800Hz / 8kHz (LINE IN)

• Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method : Apply a 800Hz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 11mV. Record and play back the 800Hz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes $12\text{mV} \pm 0.5\text{dB}$ with respect to that of the 800Hz signal.

19. REC/PB Sensitivity Check

Settings : • Test tape : TTA-602

• Test point : TP8, TP9

• Input signal : 800Hz (LINE IN)

Method : Apply a 800Hz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 11mV. Record and play back the 800Hz signals and check that the output is $10\text{mV} \pm 2.5\text{dB}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (at S/N 26 dB)	G,K,EZ : 11dB ± 6dB [at 87.5 / 98.0 / 108.0MHz]
IHF Sensitivity : (THD 3%)	325U,330U,LH : 1dB ± 6dB [at 87.5MHz] 4dB ± 6dB [at 98.0MHz] 8dB ± 8dB [at 108.0MHz]
Quieting sensitivity : (at S/N 46dB<G,K,EZ>/ (50dB<325U,330U,LH>)	(STEREO) Less than 36dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	(STEREO) More than 64dB (MONO) More than 67dB (G,K,EZ) More than 70dB (325U,330U,LH) [at 98.0MHz]
Distortion :	(STEREO)less than 2.0% (MONO)less than 1.3% [at 98.0MHz]
Overload signal Distortion :	Less than 1.5% [at 98.0MHz]
Auto stop level :	17 ~ 32dB [at 98.0MHz]
Stereo separation :	More than 20dB (G,K,EZ) More than 28dB (325U,330U,LH) [at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity : (S/N 20dB)	58dB ± 6dB [at 603kHz(G,K,EZ)] [at 600kHz(325U,330U,LH)] 54dB ± 6dB [at 999kHz(G,K,EZ)] [at 1000kHz(325U,330U,LH)] 56dB ± 6dB [at 1404kHz(G,K,EZ)] [at 1400kHz(325U,330U,LH)]
Signal to noise ratio :	(MONO) More than 30dB (STEREO) More than 34dB [at 999kHz(G,K,EZ)] [at 1000kHz(325U,330U,LH)]
Distortion :	(MONO) Less than 1.5% (STEREO) Less than 4% [at 999kHz(G,K,EZ)] [at 1000kHz(325U,330U,LH)]

Overload signal Distortion :

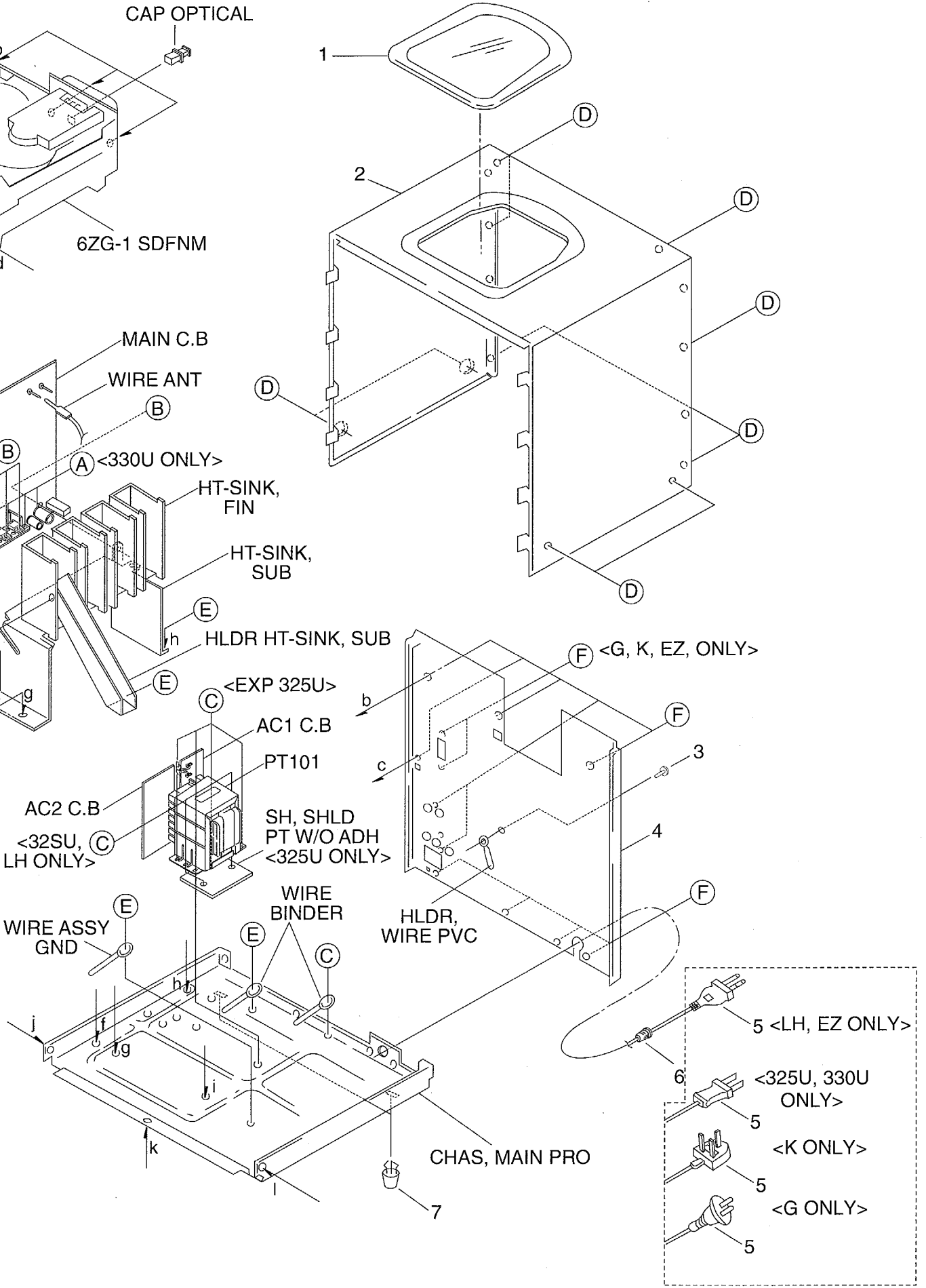
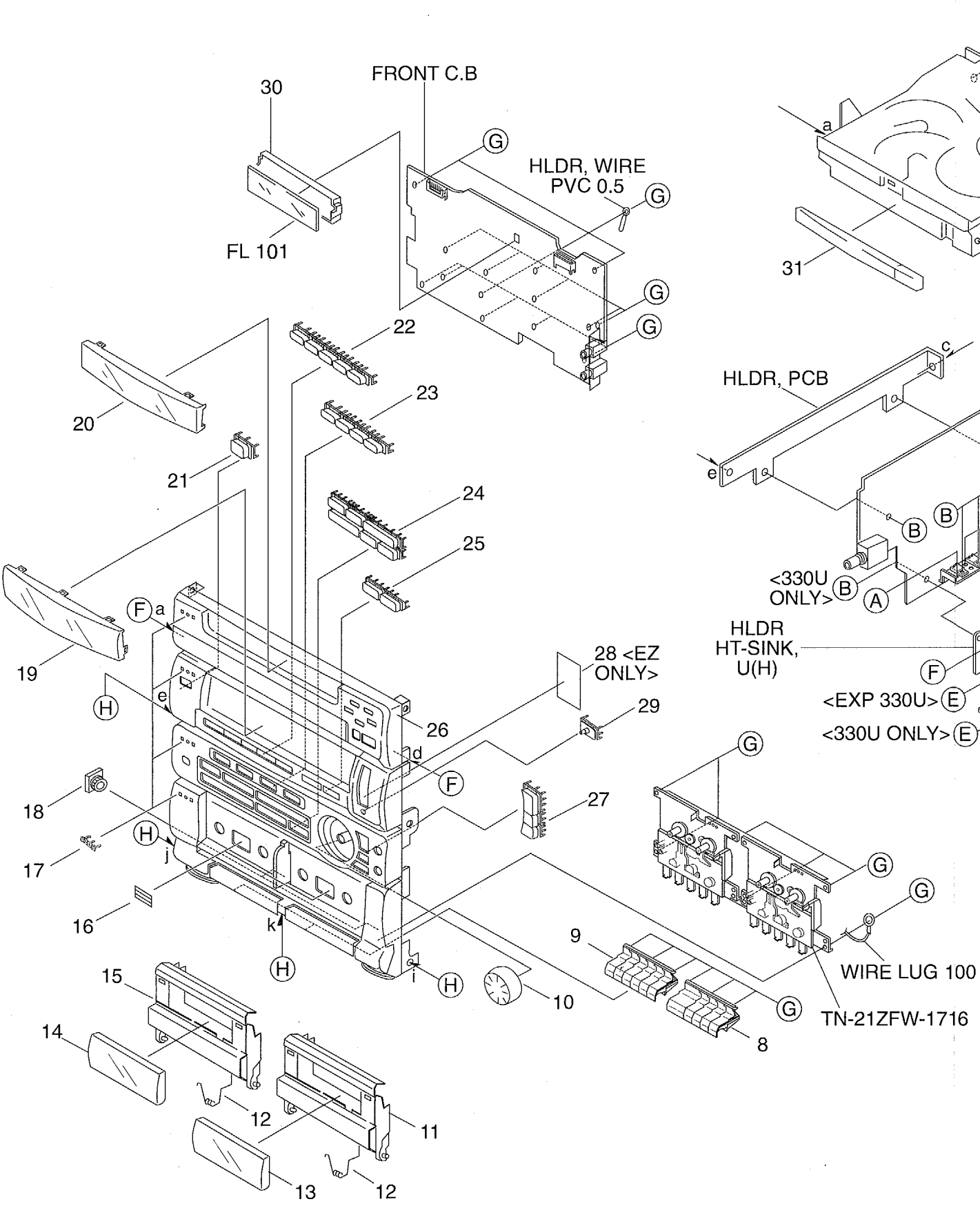
	Less than 8% [at 999kHz(G,K,EZ)] [at 1000kHz(325U,330U,LH)]
Auto stop level :	43dB ~ 68dB [at 999kHz(G,K,EZ)] [at 1000kHz(325U,330U,LH)]
Stereo separation :	More than 12dB [at 999kHz(G,K,EZ)] [at 1000kHz(325U,330U,LH)]
Intermediate frequency :	450kHz

<LW SECTION> (K,EZ)

Sensitivity : (S/N 20dB)	67dB ± 5dB [at 144kHz] 64dB ± 5dB [at 198kHz] 62dB ± 5dB [at 290kHz]
Overload signal Distortion :	Less than 1.5% [at 198kHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.35% (RMS)
Take-up torque :	30 ~ 60g-cm (FWD, REV)
F.F & REW torque :	55 ~ 140g-cm
Back tension :	2 ~ 5g-cm (FWD, REV)
PB output level :	2.8V ± 3dB (SP OUT 2V)
REC/PB output level :	2.0V ± 3.5dB (SP OUT 2V,NORM)
Distortion (REC/PB) :	Less than 2.0% (NORM)
Noise level (PB) :	Less than 35mV (325U) Less than 25mV (except 325U) (NORM,SP OUT 2V)
Noise level (REC/PB) :	Less than 35/12mV (NORM,SP OUT 2V,DOLBY OFF)
Crosstalk :	More than 55dB (SP OUT 2V,1kHz)
Channel separation :	More than 35 dB (SP OUT 2V,1kHz)
Erasing ratio :	More than 55dB (at 125Hz, 10VU,NORM)
Test tape :	NORM : TTA-602 CrO2 : TTA-615



MECHANICAL PARTS LIST 1 / 1

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

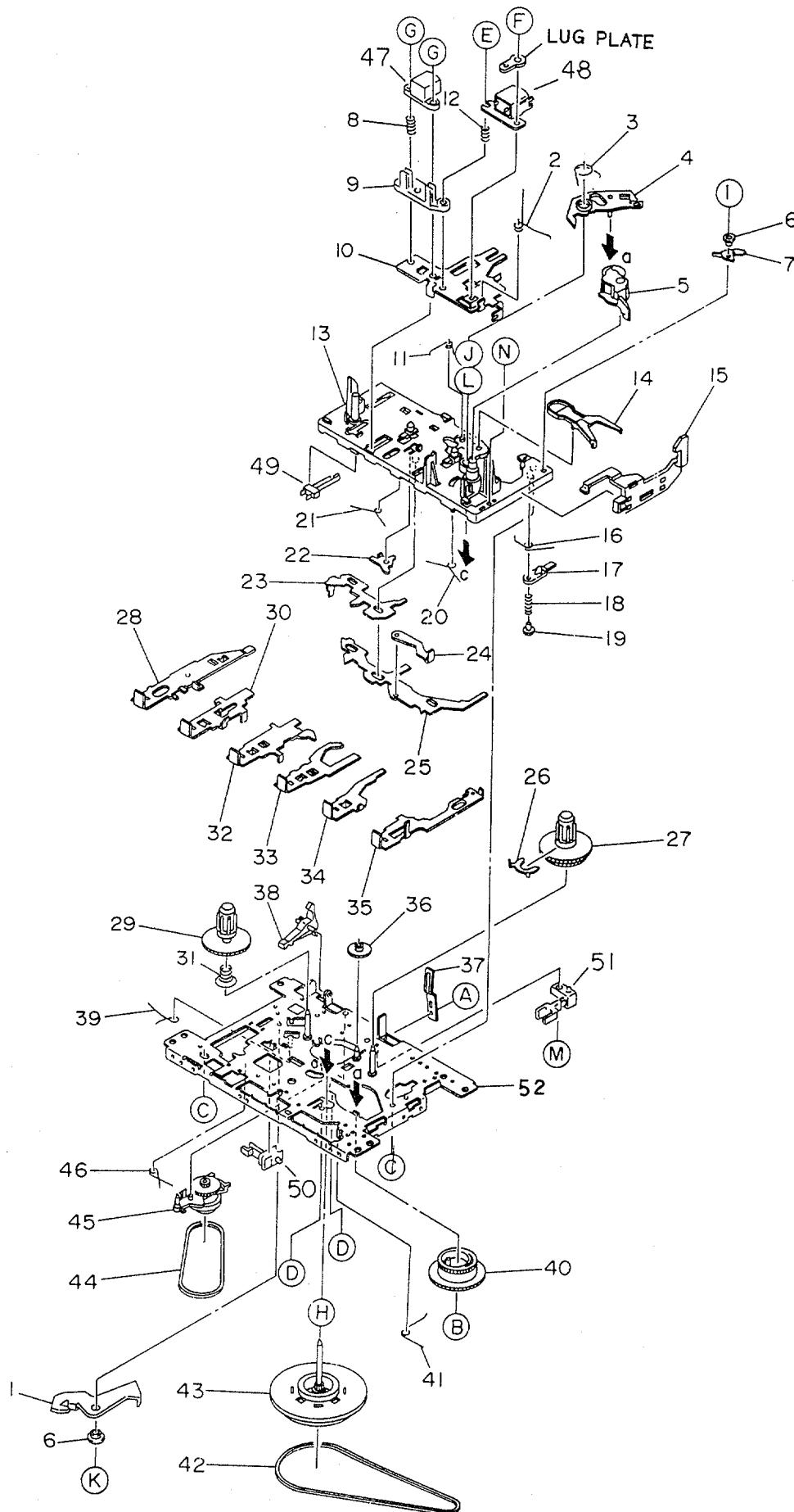
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MA3-042-010		WINDOW, TOP	18	87-063-164-010		OIL-DMPR 80
2	87-MA5-027-010		CABI, STEEL	19	87-MA5-024-010		WINDOW, AMP<EXP EZ>
3	87-084-072-010		RIVET NYL3.5-4.5	19	87-MA5-044-010		WINDOW, AMP (RDS) <EZ>
4	87-MA8-013-010		PANEL, REAR EZSTNM<EZ>	20	87-MA5-023-010		WINDOW, CD
4	87-MA8-017-010		PANEL, REAR GSTNM<G>	21	87-MA5-012-010		KEY, POWER
4	87-MA8-012-010		PANEL, REAR KSTNM<K>	22	87-MA8-066-010		KEY, DIRECT
4	87-MA8-011-010		PANEL, REAR LHSTNM<LH>	23	87-MA8-062-010		KEY, FUN
4	87-MA8-014-010		PANEL, REAR USTNM (325) <325U>	24	87-MA8-063-010		KEY, PLAY
4	87-MA8-016-010		PANEL, REAR USTNM (330) <330U>	25	87-MA8-061-010		KEY, OPEN
△ 5	87-050-100-010		AC CORD ASSY K3P<K>	26	87-MA8-004-010		CABI, FR E<EZ>
△ 5	87-050-081-110		AC CORD ASSY, G<G>	26	87-MA8-003-010		CABI, FR K<G, K>
△ 5	87-050-053-010		AC CORD ASSY, U-2<325U, 330U>	26	87-MA8-002-010		CABI, FR LH<LH>
△ 5	87-050-079-010		AC-CORD ASSY, E<LH, EZ>	26	87-MA8-005-010		CABI, FR U (325) <325U>
6	87-085-185-010		BUSHING, AC CORD<EXP 325U, 330U>	26	87-MA8-007-010		CABI, FR U (330) <330U>
6	87-085-189-010		BUSHING, CORD (U) <325U, 330U>	27	87-MA8-064-010		KEY, T-BASS
7	87-MA3-062-010		FOOT, H17	28	87-MA8-065-010		KEY, RDS<EZ>
8	87-MA7-065-010		KEY, CASS 2	29	87-MA7-068-010		KEY, DEMO
9	87-MA7-064-010		KEY, CASS 1	30	82-NF7-210-010		GUIDE, FL
10	87-MA3-027-010		KNOB, RTRY MAIN	31	87-MA5-009-010		PANEL, TRAY
11	87-MA8-031-010		BOX, CASS R<LH>	A	87-067-581-010		TAPPING SCREW, BVT2+3-15<330U>
11	87-MA8-033-010		BOX, CASS, R (E) <EXP LH>	B	87-067-579-010		TAPPING SCREW, BVT2+3-8
12	85-MA7-201-010		SPR-T, EJECT	C	87-067-585-010		TAPPING SCREW, BVT+4-6
13	87-MA7-051-010		WINDOW, CASS R	D	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
14	87-MA7-050-010		WINDOW, CASS L	E	87-067-688-010		BVT+3-6
15	87-MA8-030-010		BOX, CASS L<LH>	F	87-067-703-010		TAPPING SCREW, BVT2+3-10
15	87-MA8-032-010		BOX, CASS L (E) <EXP LH>	G	87-641-096-410		UT1+3-10 GLD
16	81-532-080-010		LABEL, CASS. COMPT	H	87-591-094-410		TAPPING SCREW, QIT+3-6
17	82-NE8-032-010		BADGE, AIWA 27.5				

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-MA8-902-019		IB,LH(ESP)-M<LH>
1	87-MA8-903-019		IB,K(E)-M<K>
1	87-MA8-904-019		IB,EZ(EGFSI)-M<EZ>
1	87-MA8-905-019		IB,U(ESF)ZR325-M<325U>
1	87-MA8-908-019		IB,U(ESF)ZR330-M<330U>
1	87-MA8-909-019		IB,G(E)-M<G>
2	87-006-269-019		ANT,LOOP AM<325U,330U,LH>
2	87-A90-030-016		ANT,LOOP AM-NC C<G,K,EZ>
3	87-A90-118-019		ANT,WIRE FM(Z){G,K,EZ>
4	87-MA8-701-019		RC UNIT,RC-7AS05
△ 5	87-A90-312-016		PLUG,CONVERSION WTN-1157R1<LH>

TAPE MECHANISM EXPLODED VIEW 1 / 2

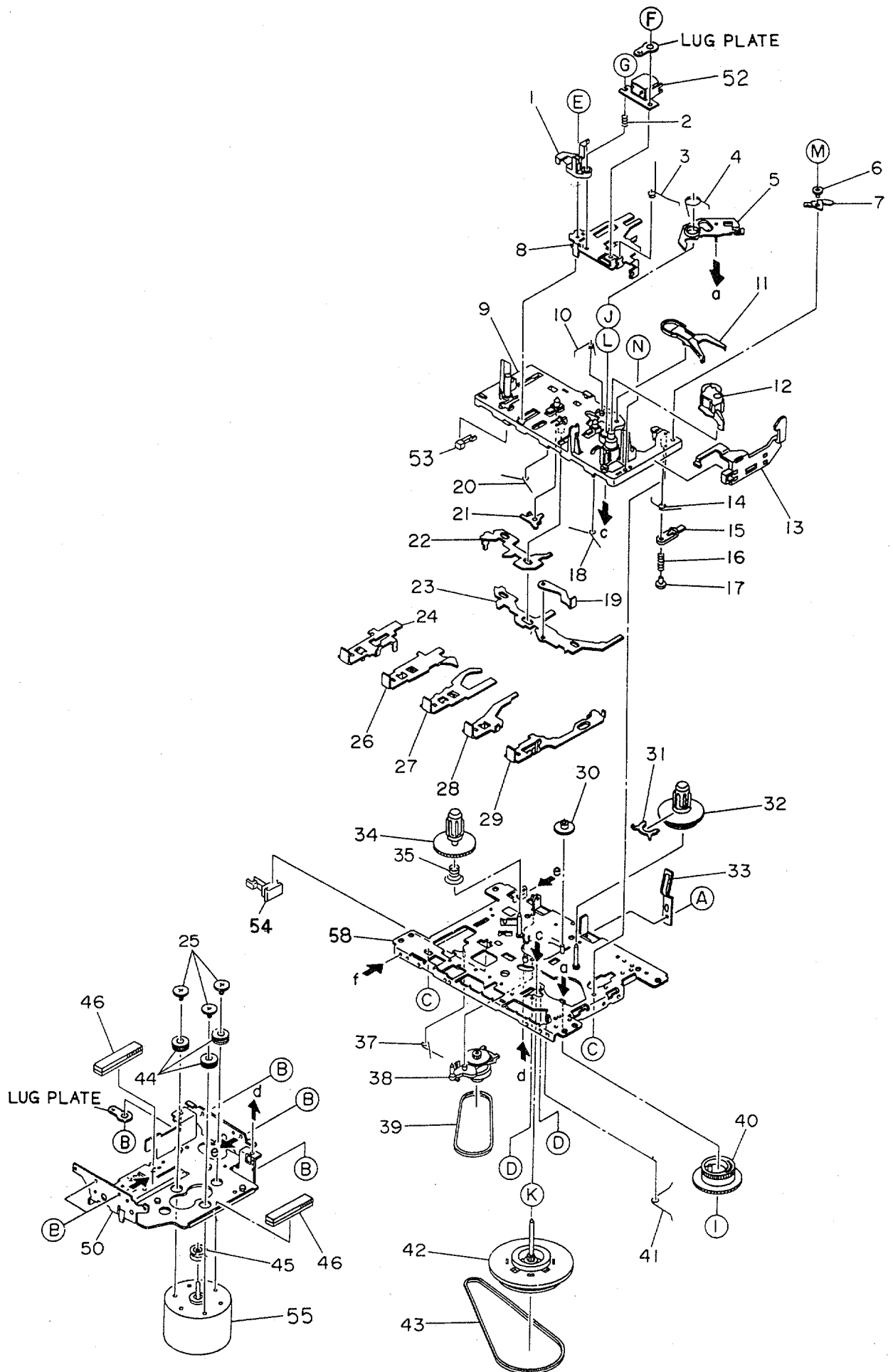


TAPE MECHANISM PARTS LIST 1 / 2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-020-010		REC ARM	36	S1-821-100-700		FF GEAR
2	S1-921-030-090		PANEL P SPRING	37	S1-829-100-010		PACK SPRING
3	S1-921-260-050		GEAR PLATE SPRING	38	S1-821-100-690		RECORD SAFETY LEVER
4	S1-921-265-020		GEAR PLATE ASSY	39	S1-921-140-210		REC BUTTON LEVER SPRING
5	S1-921-043-100		PINCH ROLLER ARM ASSY	40	S1-921-260-020		CAM GEAR
6	S1-921-140-370		P ARM COLLER	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-140-340		P ARM	42	S1-921-090-240		MAIN BELT
8	S1-821-030-080		EH SPRING	43	S1-921-093-030		FLYWHEEL ASSY
9	S1-921-030-060		HEAD BASE	44	S1-821-070-110		RF BELT
10	S1-921-030-140		HEAD PANEL	45	S1-921-073-080		RF CLUTCH ASSY
11	S1-921-141-8A0		M CONTROL SPRING	46	S1-921-140-170		P.S.LEVER SPRING
12	S1-821-030-070		AZIMUTH SPRING	47	S6-202-140-190		E HEAD
13	S1-921-143-180		BASE ASSY	48	S6-201-010-750		R.P.HEAD RP-7442BS
14	S1-921-260-4A0		SENSING LEVER	49	S6-401-011-490		LEAF SW MSW-1541T
15	S1-921-130-020		EJECT SLIDE LEVER	50	S6-401-011-610		LEAF SW MSW-17820MVEI
16	S1-921-141-3A0		P CONTROL SPRING	51	S6-401-010-380		LEAF SW MSW-1275
17	S1-921-140-550		PAUSE LEVER(E)	52	S1-921-015-010		CHASSIS ASSY
18	S1-921-140-120		PAUSE LEVER SPRING	A	S9-179-000-000		C TAP SCREW M2-3
19	S1-921-140-110		PAUSE STOPPER	B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
20	S1-921-140-150		BUTTON LEVER SPRING(B)	C	S9-679-000-000		P TAP SCREW M2-5
21	S1-921-140-140		BUTTON LEVER SPRING(A)	D	S9-999-180-090		TAP SCREW M2-4.5
22	S1-921-140-200		PR STOPPER	E	S9-922-000-000		AZIMUTH SCREW M2-8
23	S1-921-140-090		SWITCH ACTUATOR	F	S9-115-000-000		+ BIND SCREW M2-3
24	S1-921-140-640		E KICK LEVER	G	S9-821-000-000		+CAP SCREW M2-8
25	S1-921-140-080		PUSH BUTTON ACTUATOR	H	S9-882-000-000		P WASHER 2-3.5-0.4
26	S1-921-050-060		SENDER	I	S9-999-200-410		P TAP SCREW M2-3
27	S1-921-053-030		TAKE UP REEL ASSY	J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
28	S1-921-140-220		REC BUTTON LEVER	K	S9-180-000-000		C TAP SCREW M2-4
29	S1-921-053-040		SUPPLY REEL ASSY	L	S9-999-000-030		P WASHER2.1-4-0.13
30	S1-921-140-230		PLAY BUTTON LEVER	M	S9-181-000-000		C TAP SCREW M2-5
31	S1-821-100-990		BACK TENSION SPRING	N	S9-P05-200-610		S TAPPING SCREW M2-6
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				

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".

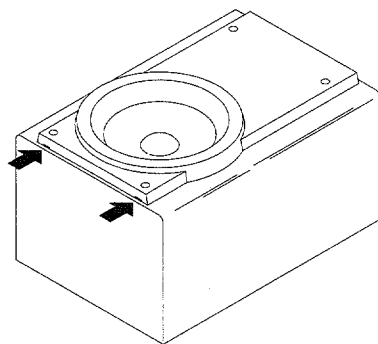
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE	37	S1-921-140-170		P.S.LEVER SPRING
2	S1-821-030-070		AZIMUTH SPRING	38	S1-921-073-080		RF CLUTCH ASSY
3	S1-921-030-090		PANEL P SPRING	39	S1-821-070-110		RF BELT
4	S1-921-260-050		GEAR PLATE SPRING	40	S1-921-260-020		CAM GEAR
5	S1-921-265-020		GEAR PLATE ASSY	41	S1-921-140-160		E ACTUATOR SPRING
6	S1-921-140-370		P ARM COLLER	42	S1-921-093-040		FLYWHEEL ASSY
7	S1-921-140-340		P ARM	43	S1-921-090-240		MAIN BELT
8	S1-921-030-110		HEAD PANEL	44	S1-820-130-060		MOTOR RUBBER
9	S1-921-143-170		BASE ASSY	45	S1-921-120-130		MOTOR PULLEY
10	S1-921-141-8A0		M CONTROL SPRING	46	S1-921-120-120		ANTI VIBR FELT MAT
11	S1-921-260-4A0		SENSING LEVER	50	S1-921-120-110		MOTOR BRACKET
12	S1-921-043-100		PINCH ROLLER ARM ASSY	52	S6-201-010-750		R.P.HEAD RP-7442BS
13	S1-921-130-020		EJECT SLIDE LEVER	53	S6-401-011-490		LEAF SW MSW-1541T
14	S1-921-141-3A0		P CONTROL SPRING	54	S6-401-011-610		LEAF SW MSW-17820MVE1
15	S1-921-140-550		PAUSE LEVER(E)	55	S6-002-030-290		MOTOR EG530YD-2BH
16	S1-921-140-120		PAUSE LEVER SPRING	58	S1-921-015-010		CHASSIS ASSY
17	S1-921-140-110		PAUSE STOPPER	A	S9-179-000-000		C TAP SCREW M2-3
18	S1-921-140-150		BUTTON LEVER SPRING(B)	B	S9-180-000-000		C TAP SCREW M2-4
19	S1-821-011-590		E KICK LEVER	C	S9-679-000-000		P TAP SCREW M2-5
20	S1-921-140-140		BUTTON LEVER SPRING(A)	D	S9-999-180-090		TAP SCREW M2-4.5
21	S1-921-140-200		PR STOPPER	E	S9-004-000-000		SCREW M2-6
22	S1-921-140-090		SWITCH ACTUATOR	F	S9-115-000-000		+ BIND SCREW M2-3
23	S1-921-140-080		PUSH BUTTON ACTUATOR	G	S9-922-000-000		AZIMUTH SCREW M2-8
24	S1-921-140-230		PLAY BUTTON LEVER	I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
25	S1-821-120-020		MOTOR COLLER SCREW	J	S9-999-030-130		P WASHER CUT 1.45-3.8
26	S1-921-140-240		REW BUTTON LEVER	K	S9-882-000-000		P WASHER 2-3.5-0.4
27	S1-921-140-250		FF BUTTON LEVER	L	S9-999-000-030		P WASHER2.1-4-0.13
28	S1-921-140-260		STOP BUTTON LEVER	M	S9-999-200-410		P TAP SCREW M2-3
29	S1-921-140-610		PAUSE BUTTON LEVER	N	S9-P05-200-610		S TAPPING SCREW M2-6
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENER				
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				

SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

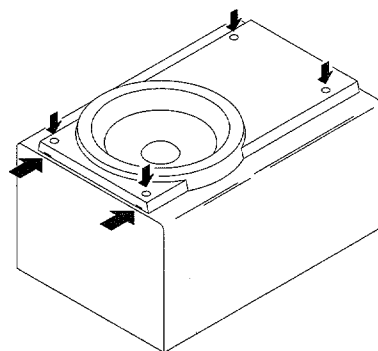
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャップをマイナスドライバーで端の方から持ち上げて外すと中にビスがありますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

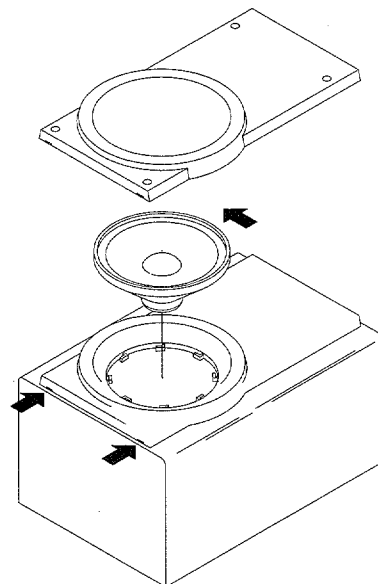
Remove the grill frame and four pieces fo rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

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.



SX-ZR300 (YBNY1,YBNC,YL) SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MSU-001-019		PANEL,FR<YL,YBNC>
2	87-MSU-003-019		GRILLE,FRAME ASSY<YL,YBNC>
2	87-MSV-004-019		GRILLE,FRAME ASSY<YBNY1>
3	85-MS5-603-019		SPKR,W 160<YL,YBNC>
3	85-MS5-611-019		SPKR,W 160<YBNY1>
4	85-MS5-005-019		SPKR,T 60<YL,YBNC>
4	85-MS5-613-019		SPKR,TW 60<YBNY1>
5	85-MS5-607-019		SPKR,CERAMIC<YL,YBNC>
5	86-VSR-605-019		SPKR,CERAMIC<YBNY1>
6	87-MSU-610-019		SPKR,CORD<YL,YBNC>

SX-ZR325 / ZR330 (YU) SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MSV-004-010		GRILLE,FRAME ASSY
2	87-MSV-610-010		SPKR,CORD
3	87-MSV-601-010		SPKR,W 160
4	83-MSE-603-010		SPKR,TW 60
5	87-MSS-001-010		PANEL,TW R
6	87-MSS-002-010		PANEL,TW L
7	86-VSR-602-010		SPKR,W 200
8	84-VS3-603-019		SPKR,T 60
9	87-MSP-606-019		SPKR,CORD

SX-ZR350 (YB) SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-VSR-006-010		GRILLE,FRAME ASSY E
2	85-MS5-611-010		SPKR,W 160
3	86-VSR-605-010		SPKR,CERMAIC

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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