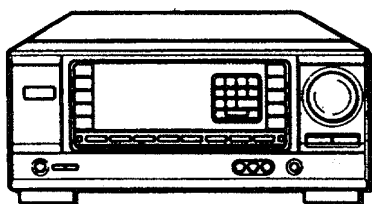


aiwa



AV-X120 AV-X220



STEREO RECEIVER

• TYPE: U

SERVICE MANUAL

SPECIFICATIONS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

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

Amplifier section

Power output (AV-X220)	[Stereo Mode] Front 125 watts per channel, Min. RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.8% Total Harmonic Distortion [Dolby Pro Logic Mode] Front 120 watts per channel, Min. RMS at 4 or 8 ohms (selectable), from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion Rear (Surround) 60 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion Center 120 watts, Min. RMS at 4 or 8 ohms (selectable), 1 kHz, with no more than 0.9% Total Harmonic Distortion
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Power output (AV-X120)	[Stereo Mode] Front 75 watts per channel, Min. RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.8% Total Harmonic Distortion [Dolby Pro Logic Mode] Front 70 watts per channel, Min. RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion Rear (Surround) 35 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion Center 70 watts, Min. RMS at 4 or 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
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Total harmonic distortion inputs	0.07 % (105 W, 1 kHz, 8 ohms, Front)
AUDIO IN	PHONO: 2.8 mV (50 kohms) CD: 300 mV (50 kohms) TAPE MONITOR: 200 mV (25 kohms) VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV: 250 mV (50 kohms) VIDEO IN: 1 Vp-p (75 ohms)

Outputs

AUDIO OUT (REC OUT): 200 mV (2 kohms)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 3.1 V
FRONT SPEAKERS IMP: 8 Ω /4 Ω selectable (front speakers A and B):
With the SPEAKER IMPEDANCE SELECTOR set to 4 Ω , accepts speakers of 4 ohms.
With the SPEAKER IMPEDANCE SELECTOR set to 8 Ω , accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8 Ω (surround speakers): accepts speakers of 8 ohms or more

CENTER SPEAKER IMP: 8 Ω /4 Ω selectable
With the SPEAKER IMPEDANCE SELECTOR set to 4 Ω , accepts speaker of 4 ohms.
With the SPEAKER IMPEDANCE SELECTOR set to 8 Ω , accepts speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more
-20 dB

Muting

General (AV-X220)

Power requirements	120 V AC, 60 Hz
Power consumption	210 W
Dimensions (W x H x D)	360 x 153.5 x 335 mm (14 $\frac{1}{4}$ x 6 $\frac{1}{8}$ x 13 $\frac{1}{4}$ in.)
Weight	10.3 kg (22 lb 11 oz.)

General (AV-X120)

Power requirements	120 V AC, 60 Hz
Power consumption	160 W
Dimensions (W x H x D)	360 x 153.5 x 335 mm (14 $\frac{1}{4}$ x 6 $\frac{1}{8}$ x 13 $\frac{1}{4}$ in.)
Weight	8.5 kg (18 lb 12 oz.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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				87-017-932-080			ZENER,MTZJ6.2B<220U>
	87-A20-514-010		C-IC,M62460FP	MAIN C.B			
	87-AR4-600-010		IC,LC866440W-5E85	C102	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-070-083-010		IC,GPIU281X	C103	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-017-915-080		C-IC,BU4094BCF	C104	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-017-022-080		C-IC,NJM2068M-D(T1)	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
	87-001-222-080		C-IC,NJU4051BM(T1)	C107	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-002-779-010		IC,LA7956	C108	87-A10-462-090		CAP,E 6800-63 SMG VB<120U>
	87-017-917-080		C-IC,BU4066BCF	C108	87-A10-416-090		CAP,E 6800-80 SMG VB<220U>
	87-017-888-080		C-IC,NJM4558MD	C109	87-A10-462-090		CAP,E 6800-63 SMG VB<120U>
	87-A20-056-010		IC,BA3880S	C109	87-A10-416-090		CAP,E 6800-80 SMG VB<220U>
				C110	87-A10-056-090		CAP,E 4700-35 M
	87-017-726-080		C-IC,BU4052BCF	C111	87-A10-056-090		CAP,E 4700-35 M
	87-A20-069-040		C-IC,BA3842F	C113	87-010-235-080		CAP,E 470-16 SME
	87-070-127-110		IC,LC72131D	C123	87-010-260-080		CAP,E 47-25 SME
	87-017-714-110		IC,LA1836L	C124	87-010-403-080		CAP,E 3.3-50 M SME
TRANSISTOR				C201	87-010-406-080		CAP,E 22-50 M SME
	89-213-702-010		TR,2SB1370E	C202	87-010-406-080		CAP,E 22-50 M SME
	89-110-372-080		C-TR,2SA1037K(R)	C205	87-010-179-080		C-CAP,1200P-50 K B<120U>
	89-324-122-080		C-TR,2SC2412KR	C205	87-015-629-080		C-CAP,2200P-50 K B<220U>
	87-A30-066-080		TR,2SA1175FE	C206	87-010-182-080		C-CAP,S 2200P-50 K B
	89-332-665-080		TR,2SC3266GR				
	87-A30-076-080		C-TR,2SC3052F	C207	87-010-406-080		CAP,E 22-50 M SME
	87-026-263-080		C-TR,RN1410	C208	87-010-406-080		CAP,E 22-50 M SME
	89-110-155-080		C-TR,2SA1015GR	C209	87-010-406-080		CAP,E 22-50 M SME
	87-026-610-080		TR,KTC3198GR	C210	87-010-406-080		CAP,E 22-50 M SME
	87-026-238-080		C-TR,DTC144WK	C211	87-010-179-080		C-CAP,S 1200P-50 K B
				C212	87-010-179-080		C-CAP,S 1200P-50 K B
	87-026-230-080		C-TR,DTA114YK	C213	87-010-260-080		CAP,E 47-25 SME
	87-A30-086-080		C-TR,CSD1306E	C214	87-010-260-080		CAP,E 47-25 SME
	87-A30-106-080		C-TR,CMBT5551	C215	87-016-461-080		C-CAP,S 0.47-16 Z F
	87-A30-111-080		TR,C2N5401	C217	87-010-247-080		CAP,E 100-50 M SME
	87-A30-097-010		TR,FN1016				
	87-A30-098-010		TR,FP1016	C218	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-089-010		FET,2SK2723	C220	87-010-247-080		CAP,E 100-50 M SME
	87-A30-072-080		C-TR,RT1P 144C	C223	87-015-835-080		C-CAP,0.047-50 K B
	87-A30-075-080		C-TR,2SA1235F	C225	87-010-322-080		C-CAP,S 100P-50 J CH
	87-A30-073-080		C-TR,RT1N 141C	C226	87-010-322-080		C-CAP,S 100P-50 J CH
				C229	87-010-805-080		C-CAP,S 1-16 Z F
	87-026-228-080		C-TR,DTA124EK	C230	87-010-805-080		C-CAP,S 1-16 Z F
	87-A30-132-080		C-TR,2SC2235Y	C231	87-010-805-080		C-CAP,S 1-16 Z F
	87-A30-074-080		C-TR,RT1P 141C	C232	87-010-805-080		C-CAP,S 1-16 Z F
	87-A30-047-080		TR,CSD655E	C239	87-010-305-080		C-CAP,470P-50 J CH
	89-109-521-080		TR,2SA952K	C240	87-010-305-080		C-CAP,470P-50 J CH
				C241	87-010-178-080		C-CAP,S 1000P-50 K B
	89-421-141-080		C-TR,2SD2114KU	C242	87-010-178-080		C-CAP,S 1000P-50 K B
	87-026-232-080		C-TR,DTA144WK	C301	87-010-405-080		CAP,E 10-50 M SME
	87-026-236-080		C-TR,DTC124EK	C302	87-010-405-080		CAP,E 10-50 M SME
	87-026-638-080		C-TR,UN221E				
	89-327-143-080		C-TR,2SC2714(O)	C305	87-010-182-080		C-CAP,S 2200P-50 K B
				C306	87-010-182-080		C-CAP,S 2200P-50 K B
	87-026-214-080		TR,DTA114YS	C307	87-010-406-080		CAP,E 22-50 M SME
	89-505-434-540		C-FET,2SK543-TB(4/5)	C308	87-010-406-080		CAP,E 22-50 M SME
				C309	87-010-406-080		CAP,E 22-50 M SME
DIODE				C310	87-010-406-080		CAP,E 22-50 M SME
	87-A40-186-080		ZENER,UZ5.1BSC	C311	87-010-179-080		C-CAP,S 1200P-50 K B
	87-A40-246-080		DIODE,1N4148T-72	C312	87-010-179-080		C-CAP,S 1200P-50 K B
	87-A40-115-060		DIODE,RS603M	C313	87-010-260-080		CAP,E 47-25 SME
	87-A40-224-010		DIODE,GBU8DL	C314	87-010-260-080		CAP,E 47-25 SME
	87-070-274-080		DIODE,1N4003 SEM				
	87-A40-270-080		C-DIODE,MC2838	C315	87-016-461-080		C-CAP,S 0.47-16 Z F
	87-A40-269-080		C-DIODE,MC2836	C316	87-010-408-040		CAP,E 47-50 M SME
	87-017-436-080		ZENER,UZ-4.7BSA	C317	87-010-247-080		CAP,E 100-50 M SME
	87-A40-206-080		ZENER,UZ10BSC	C318	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A40-199-080		ZENER,UZL6H2	C319	87-012-368-080		C-CAP,S 0.1-50 Z F<220U>
				C320	87-010-247-080		CAP,E 100-50 M SME
	87-A40-209-080		ZENER,UZ27BSD	C323	87-010-194-080		C-CAP,S 0.047-25 Z F
	87-017-437-080		DIODE,1N4148M	C325	87-010-322-080		C-CAP,S 100P-50 J CH
	87-070-178-090		DIODE,1N5402-BD54<120U>	C326	87-010-322-080		C-CAP,S 100P-50 J CH
	87-A40-274-010		DIODE,FMB-G16L<220U>	C329	87-010-805-080		C-CAP,S 1-16 Z F
	87-A40-202-080		ZENER,UZ5.1BSB				
	87-002-743-080		ZENER,MTZJ33B				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C330	87-010-805-080	C-CAP,S 1-16 Z F		C708	87-010-546-080	CAP,E 0.33-50 SME	
C331	87-010-805-080	C-CAP,S 1-16 Z F		C711	87-010-263-080	CAP,E 100-10 SME	
C332	87-010-805-080	C-CAP,S 1-16 Z F		C712	87-010-112-080	CAP,E 100-16 M SME	
C339	87-010-305-080	C-CAP,470P-50 J CH		C722	87-010-152-080	C-CAP,S 8P-50 D CH	
C340	87-010-305-080	C-CAP,470P-50 J CH		C723	87-010-178-080	C-CAP,S 1000P-50 K B	
C341	87-010-178-080	C-CAP,S 1000P-50 K B		C725	87-010-178-080	C-CAP,S 1000P-50 K B	
C342	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	
C345	87-010-408-040	CAP,E 47-50 M SME		C728	87-010-248-080	CAP,E 220-10 SME	
C501	87-010-404-080	CAP,E 4.7-50 M SME		C729	87-018-134-080	CAP,TC U 0.01-16 N Y UP050	
C502	87-010-404-080	CAP,E 4.7-50 M SME		C731	87-012-153-080	C-CAP,S 120P-50 J CH GRM	
C503	87-012-157-080	C-CAP,S 330P-50 J CH GRM		C732	87-012-155-080	C-CAP,S 180P-50 J CH GRM	
C504	87-012-157-080	C-CAP,S 330P-50 J CH GRM		C733	87-012-155-080	C-CAP,S 180P-50 J CH GRM	
C511	87-010-404-080	CAP,E 4.7-50 M SME		C771	87-010-405-080	CAP,E 10-50 M SME	
C512	87-010-404-080	CAP,E 4.7-50 M SME		C772	87-010-194-080	C-CAP,S 0.047-25 Z F	
C513	87-010-260-080	CAP,E 47-25 SME		C774	87-010-263-080	CAP,E 100-10 SME	
C514	87-010-260-080	CAP,E 47-25 SME		C775	87-010-405-080	CAP,E 10-50 M SME	
C515	87-010-370-080	CAP,E 330-6.3 M SME		C776	87-010-197-080	C-CAP,S 0.01-25 K B	
C516	87-010-370-080	CAP,E 330-6.3 M SME		C777	87-010-400-080	CAP,E 0.47-50 M SME	
C525	87-010-184-080	C-CAP,S 3300P-50 K B		C778	87-010-401-080	CAP,E 1-50 M SME	
C526	87-010-184-080	C-CAP,S 3300P-50 K B		C779	87-010-401-080	CAP,E 1-50 M SME	
C531	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C780	87-010-197-080	C-CAP,S 0.01-25 K B	
C532	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C789	87-010-194-080	C-CAP,S 0.047-25 Z F	
C533	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C790	87-010-194-080	C-CAP,S 0.047-25 Z F	
C534	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C791	87-010-401-080	CAP,E 1-50 M SME	
C541	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C792	87-010-180-080	C-CAP,S 1500P-50 K B	
C549	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C793	87-010-189-080	C-CAP,S 8200P-50 K B	
C551	87-010-406-080	CAP,E 22-50 M SME		C794	87-010-260-080	CAP,E 47-25 SME	
C552	87-010-406-080	CAP,E 22-50 M SME		C795	87-010-194-080	C-CAP,S 0.047-25 Z F	
C553	87-010-406-080	CAP,E 22-50 M SME		C796	87-010-403-080	CAP,E 3.3-50 M SME	
C554	87-010-406-080	CAP,E 22-50 M SME		C797	87-010-197-080	C-CAP,S 0.01-25 K B	
C555	87-010-406-080	CAP,E 22-50 M SME		C799	87-010-405-080	CAP,E 10-50 M SME	
C556	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C820	87-010-260-080	CAP,E 47-25 SME	
C557	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C821	87-010-197-080	C-CAP,S 0.01-25 K B	
C558	87-010-384-080	CAP,E 100-25 M SME		C823	87-010-197-080	C-CAP,S 0.01-25 K B	
C559	87-010-371-080	CAP,E 470-6.3 M SME		C825	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C560	87-010-371-080	CAP,E 470-6.3 M SME		C834	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C561	87-010-371-080	CAP,E 470-6.3 M SME		C835	87-016-461-080	C-CAP,S 0.47-16 Z F	
C604	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C836	87-010-401-080	CAP,E 1-50 M SME	
C605	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C837	87-010-197-080	C-CAP,S 0.01-25 K B	
C621	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		C849	87-010-197-080	C-CAP,S 0.01-25 K B	
C631	87-010-322-080	C-CAP,S 100P-50 J CH		C850	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C632	87-018-209-080	CAP,TC U 0.1-50 Z F UP050		C901	87-010-197-080	C-CAP,S 0.01-25 K B	
C641	87-010-405-080	CAP,E 10-50 M SME		C920	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C642	87-010-405-080	CAP,E 10-50 M SME		C955	87-010-197-080	C-CAP,S 0.01-25 K B	
C643	87-010-301-080	C-CAP,220P-50 J CH		C960	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C644	87-012-156-080	C-CAP,S 220P-50 J CH GRM		C988	87-010-198-080	C-CAP,S 0.022-25 K B	
C645	87-010-197-080	C-CAP,S 0.01-25 K B		C989	87-010-154-080	C-CAP,S 10P-50 D CH	
C646	87-010-197-080	C-CAP,S 0.01-25 K B		CF801	87-008-261-080	FLTR,CF SFE10.7MA5	
C647	87-010-195-080	C-CAP,S 0.068-25 Z F C2012		CF802	87-008-261-080	FLTR,CF SFE10.7MA5	
C648	87-010-195-080	C-CAP,S 0.068-25 Z F C2012		EMI501	87-008-372-080	FLTR,EMIBL01 RN1	
C649	87-010-260-080	CAP,E 47-25 SME		FFE801	A8-62A-195-030	62A-1 YFEENM	
C651	87-010-378-080	CAP,E 10-16 M SME		J261	87-A60-198-010	JACK,6.3 BLK ST W/O SW HPJ	
C652	87-010-378-080	CAP,E 10-16 M SME		J521	87-099-609-010	JACK,PIN 4P BLK W/O SW	
C661	87-012-140-080	C-CAP,S 470P-50 J CH		J522	87-099-609-010	JACK,PIN 4P BLK W/O SW	
C662	87-018-127-080	CAP,TC U 470P-50 K B UP050		J525	87-099-911-010	JACK,PIN 3P YEL W/O SW	
C663	87-010-188-080	C-CAP,S 6800P-50 K B		J527	87-099-911-010	JACK,PIN 3P YEL W/O SW	
C664	87-010-188-080	C-CAP,S 6800P-50 K B		J530	87-A60-197-010	JACK,PIN 3P Y/W/R W/O SW H	
C665	87-010-101-080	CAP,E 220-16 SME		J583	87-099-911-010	JACK,PIN 3P YEL W/O SW	
C666	87-010-404-080	CAP,E 4.7-50 M SME		J584	87-099-911-010	JACK,PIN 3P YEL W/O SW	
C667	87-010-404-080	CAP,E 4.7-50 M SME		J586	87-099-911-010	JACK,PIN 3P YEL W/O SW	
C668	87-010-404-080	CAP,E 4.7-50 M SME		J801	87-A60-202-010	TERMINAL,ANT 4P MSP-154V-02	
C669	87-010-404-080	CAP,E 4.7-50 M SME		L551	87-005-444-080	COIL,100UH K FLR50	
C670	87-010-404-080	CAP,E 4.7-50 M SME		L741	87-A50-015-010	COIL,FM DET (TOK)	
C671	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		L742	87-A90-052-010	FLTR, CFMT-450A(TOK)	
C672	87-010-196-080	C-CAP,S 0.1-25 Z F C2012		L770	87-005-849-080	COIL,10UH K CECS	
C701	87-010-404-080	CAP,E 4.7-50 M SME		L832	87-005-847-080	COIL,2.2UH K CECS	
C702	87-010-197-080	C-CAP,S 0.01-25 K B		L981	85-NF7-664-010	TU UNIT, AM PACK 1,(SG1) R	
C703	87-010-197-080	C-CAP,S 0.01-25 K B		△PR104	87-026-691-080	FUSE,10A 125V 251	
C704	87-018-131-080	CAP,TC U 1000P-50 K B UP050		△PR105	87-026-691-080	FUSE,10A 125V 251	
C707	87-010-546-080	CAP,E 0.33-50 SME		△PR106	87-026-691-080	FUSE,10A 125V 251	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
△PR107	87-026-691-080		FUSE,10A 125V 251	LED313	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
△PR201	87-026-691-080		FUSE,10A 125V 251	LED314	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
△PR202	87-026-691-080		FUSE,10A 125V 251	LED315	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
△PR301	87-026-691-080		FUSE,10A 125V 251	LED316	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
△PR302	87-026-691-080		FUSE,10A 125V 251	LED317	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R229	87-022-184-080		RES,M/F 0.33-1W J	LED318	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R230	87-022-184-080		RES,M/F 0.33-1W J	LED319	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R231	87-022-184-080		RES,M/F 0.33-1W J	LED320	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R232	87-022-184-080		RES,M/F 0.33-1W J	LED321	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R295	87-A00-126-080		RES,M/F 220-1W J VTP	LED322	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R296	87-A00-126-080		RES,M/F 220-1W J VTP	LED323	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R297	87-A00-126-080		RES,M/F 220-1W J VTP	LED324	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
R298	87-A00-126-080		RES,M/F 220-1W J VTP	S201	87-A90-095-080		SW,TACT EVQ11G04M
R329	87-022-184-080		RES,M/F 0.33-1W J	S202	87-A90-095-080		SW,TACT EVQ11G04M
R330	87-022-184-080		RES,M/F 0.33-1W J	S203	87-A90-095-080		SW,TACT EVQ11G04M
R331	87-022-184-080		RES,M/F 0.33-1W J	S204	87-A90-095-080		SW,TACT EVQ11G04M
R332	87-022-184-080		RES,M/F 0.33-1W J	S205	87-A90-095-080		SW,TACT EVQ11G04M
SFR722	87-024-171-080		SFR,4.7K H RH0638C	S206	87-A90-095-080		SW,TACT EVQ11G04M
SW261	87-A90-174-010		SW,PUSH 2-2-2	S207	87-A90-095-080		SW,TACT EVQ11G04M
SW262	87-A90-174-010		SW,PUSH 2-2-2	S208	87-A90-095-080		SW,TACT EVQ11G04M
TC721	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECRLA	S209	87-A90-095-080		SW,TACT EVQ11G04M
TH201	87-A90-221-080		C-THMS,100K	S210	87-A90-095-080		SW,TACT EVQ11G04M
TH202	87-A90-221-080		C-THMS,100K	S211	87-A90-095-080		SW,TACT EVQ11G04M
TH301	87-A90-221-080		C-THMS,100K	S212	87-A90-095-080		SW,TACT EVQ11G04M
TH302	87-A90-221-080		C-THMS,100K	S213	87-A90-095-080		SW,TACT EVQ11G04M
W101	87-AR4-676-010		F-CABLE,8P 2.5 400MM BL	S214	87-A90-095-080		SW,TACT EVQ11G04M
W103	87-AR4-678-010		F-CABLE,2P 2.5 150MM BL	S221	87-A90-095-080		SW,TACT EVQ11G04M
X703	84-508-618-010		VIB,CER CSB 456 F15	S222	87-A90-095-080		SW,TACT EVQ11G04M
X721	87-030-372-010		VIB,XTAL 7.200MHZ CSA-309	S223	87-A90-095-080		SW,TACT EVQ11G04M
				S224	87-A90-095-080		SW,TACT EVQ11G04M
FRONT-1 C.B				S225	87-A90-095-080		SW,TACT EVQ11G04M
C101	87-018-209-010		CAP,TC U 0.1-50 Z F UP050	S226	87-A90-095-080		SW,TACT EVQ11G04M
C103	87-010-316-080		C-CAP,S 33P-50 CH	S227	87-A90-095-080		SW,TACT EVQ11G04M
C105	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S228	87-A90-095-080		SW,TACT EVQ11G04M
C106	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S229	87-A90-095-080		SW,TACT EVQ11G04M
C108	87-015-681-040		CAP,E 10-16 7L SRA	S230	87-A90-095-080		SW,TACT EVQ11G04M
C109	87-010-178-080		C-CAP,S 1000P-50 K B	S231	87-A90-095-080		SW,TACT EVQ11G04M
C111	87-010-263-040		CAP,E 100-10 M SME	S232	87-A90-095-080		SW,TACT EVQ11G04M
C112	87-A10-189-040		CAP,E 220-10 M	S241	87-A90-095-080		SW,TACT EVQ11G04M
C113	87-010-544-080		CAP,E 0.1-50 M SME<120U>	S242	87-A90-095-080		SW,TACT EVQ11G04M
C113	87-010-546-080		CAP,E 0.33-50 M SME<220U>	S243	87-A90-095-080		SW,TACT EVQ11G04M
C114	87-010-401-040		CAP,E 1-50 M SME	S244	87-A90-095-080		SW,TACT EVQ11G04M
C115	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S245	87-A90-095-080		SW,TACT EVQ11G04M
C117	87-010-320-080		C-CAP,S 68P-50 J CH	S246	87-A90-095-080		SW,TACT EVQ11G04M
C118	87-010-312-080		C-CAP,S 15P-50 J CH	S247	87-A90-095-080		SW,TACT EVQ11G04M
C120	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	S248	87-A90-095-080		SW,TACT EVQ11G04M
C121	87-010-178-080		C-CAP,S 1000P-50 K B	S249	87-A90-095-080		SW,TACT EVQ11G04M
C161	87-010-408-040		CAP,E 47-50 M SME	S250	87-A90-095-080		SW,TACT EVQ11G04M
C162	87-010-405-040		CAP,E 10-50 SME	VR601	86-AR4-653-010		VR,RTRY 100K3BMX1 1 H
C163	87-010-405-040		CAP,E 10-50 SME	X101	87-A70-070-080		VIB,CER 5.76MHZ CRHR
C301	87-010-196-080		C-CAP,S 0.1-25 Z F C2012				
C302	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	FRONT-2 C.B			
C605	87-A10-224-040		CAP,E 10-10 M 7L BP	C601	87-010-384-040		CAP,E 100-25 SME
C606	87-A10-224-040		CAP,E 10-10 M 7L BP	C602	87-010-263-040		CAP,E 100-10 M SME
C607	87-A10-224-040		CAP,E 10-10 M 7L BP	C603	87-015-692-040		CAP,E 0.22-50 M 7L SRA
C608	87-A10-224-040		CAP,E 10-10 M 7L BP	C604	87-015-692-040		CAP,E 0.22-50 M 7L SRA
FL101	86-AR4-670-010		FL,9-BT-153GK	C609	87-012-154-080		C-CAP,S 150P-50 J CH GRM
LED301	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C610	87-012-153-080		C-CAP,S 120P-50 J CH GRM
LED302	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C621	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
LED303	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C701	87-010-402-040		CAP,E 2.2-50 SME
LED304	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C702	87-010-402-040		CAP,E 2.2-50 SME
LED305	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C703	87-012-154-080		C-CAP,S 150P-50 J CH GRM
LED306	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C704	87-012-154-080		C-CAP,S 150P-50 J CH GRM
LED307	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C705	87-016-460-080		C-CAP,S 0.22-16 K B
LED308	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C706	87-016-460-080		C-CAP,S 0.22-16 K B
LED309	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C707	87-010-182-080		C-CAP,S 2200P-50 K B
LED310	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C708	87-010-182-080		C-CAP,S 2200P-50 K B
LED311	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C709	87-010-597-080		C-CAP,S 0.056-16 K R
LED312	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN	C710	87-010-597-080		C-CAP,S 0.056-16 K R

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C711	87-016-460-080	C-CAP,S 0.22-16 K B	
C712	87-016-460-080	C-CAP,S 0.22-16 K B	
C713	87-016-462-080	C-CAP,S 1-16 Z F	
C714	87-010-260-080	CAP,E 47-25 SME	
C715	87-010-405-080	CAP,E 10-50 M SME	
C716	87-010-260-080	CAP,E 47-25 SME	
C717	87-016-081-080	C-CAP,S 0.1-16 K R	
C718	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
MVR601	86-AR4-669-010	VR,MOT 50KBX4 1 H	
SPEAKER C.B			
C251	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C252	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C253	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C254	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C255	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C256	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C257	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C258	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C351	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C352	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C353	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
C354	87-010-196-080	C-CAP,S 0.1-25 Z F C2012	
J201	87-A60-244-010	JACK, PIN 1P BLK W/O SW	
J202	87-A60-199-010	TERMINAL, SP 8P CJ-9034-07 V0	
J303	87-A60-200-110	TERMINAL, SP 6P CJ-9033-21-3 V0	
L201	87-003-383-010	COIL, 1UH K	
L202	87-003-383-010	COIL, 1UH K	
L203	87-003-383-010	COIL, 1UH K	
L204	87-003-383-010	COIL, 1UH K	
L301	87-003-383-010	COIL, 1UH K	
L302	87-003-383-010	COIL, 1UH K	
S101	86-SP8-611-010	SW, SL 1-1-2	
W201	86-AR4-686-110	F-CABLE, 8P 2.5 500MM	
W301	86-AR4-642-110	F-CABLE, 4P 2.5 300MM	
PRO C.B			
C1	87-010-405-040	CAP,E 10-50 M SME	
C2	87-010-405-040	CAP,E 10-50 M SME	
C3	87-010-405-040	CAP,E 10-50 M SME	
C4	87-010-260-040	CAP,E 47-25 SME	
C5	87-010-405-040	CAP,E 10-50 M SME	
C6	87-016-081-080	C-CAP,S 0.1-16 K R	
C7	87-010-401-040	CAP,E 1-50 M SME	
C8	87-010-318-080	C-CAP,S 47P-50 J CH	
C9	87-010-318-080	C-CAP,S 47P-50 J CH	
C10	87-012-368-080	C-CAP,S 0.1-50 Z F	
C11	87-010-263-040	CAP,E 100-10 M SME	
C12	87-016-456-040	CAP,E 22-16 M SME	
C22	87-016-081-080	C-CAP,S 0.1-16 K R	
C23	87-016-081-080	C-CAP,S 0.1-16 K R	
C24	87-016-081-080	C-CAP,S 0.1-16 K R	
C25	87-012-140-080	C-CAP,S 470P-50 J CH	
C27	87-010-401-040	CAP,E 1-50 M SME	
C28	87-010-177-080	C-CAP,S 820P-50 J SL	
C31	87-A10-229-080	C-CAP,S 0.68-10 K WSR	
C32	87-012-393-080	C-CAP,S 0.22-16 K WSR CM/CB	
C33	87-012-393-080	C-CAP,S 0.22-16 K WSR CM/CB	
C34	87-010-404-040	CAP,E 4.7-50 SME	
C35	87-010-404-040	CAP,E 4.7-50 SME	
C36	87-012-393-080	C-CAP,S 0.22-16 K WSR CM/CB	
C37	87-012-393-080	C-CAP,S 0.22-16 K WSR CM/CB	
C38	87-016-081-080	C-CAP,S 0.1-16 K R	
C41	87-016-081-080	C-CAP,S 0.1-16 K R	
C42	87-016-081-080	C-CAP,S 0.1-16 K R	
C45	87-016-081-080	C-CAP,S 0.1-16 K R	
C47	87-010-176-080	C-CAP,S 680P-50 J SL	
C49	87-010-176-080	C-CAP,S 680P-50 J SL	

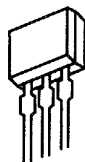
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C52	87-016-456-040	CAP,E 22-16 M LLA	
C53	87-016-251-040	CAP,E 220-16 M SMG<220U>	
C54	87-010-405-080	CAP,E 10-50 M SME	
C57	87-010-405-080	CAP,E 10-50 M SME	
C58	87-010-405-080	CAP,E 10-50 M SME	
C61	87-010-384-040	CAP,E 100-25 SME	
C62	87-012-368-080	C-CAP,S 0.1-50 Z F	
C63	87-010-315-080	C-CAP,S 27P-50 CH	
C64	87-010-315-080	C-CAP,S 27P-50 CH	
C65	87-010-315-080	C-CAP,S 27P-50 CH	
C112	87-010-382-080	CAP,E 22-25 M SME	
C114	87-010-384-080	CAP,E 100-25 M SME	
C115	87-012-140-080	C-CAP,S 470P-50 J CH	
C116	87-010-263-080	CAP,E 100-10 SME	
C117	87-010-235-080	CAP,E 470-16 SME	
C118	87-010-235-080	CAP,E 470-16 SME	
C119	87-010-407-080	CAP,E 33-50 SME	
C120	87-010-407-080	CAP,E 33-50 SME	
C121	87-010-408-080	CAP,E 47-50 SME	
C122	87-010-263-080	CAP,E 100-10 SME	
C123	87-010-112-040	CAP,E 100-16 SME<220U>	
C123	87-010-404-040	CAP,E 4.7-50 SME<120U>	
L1	87-005-481-080	COIL, 47UH J FLR50	
R27	87-025-407-080	RES,M/F 100K-1/8W F	
△R144	87-029-060-010	RES,FUSE 33-1/4W J	
RY201	87-A90-143-010	RELAY, DG12D2-OS(M)<220U>	
RY202	87-A90-143-010	RELAY, DG12D2-OS(M)<220U>	
AC1 C.B			
△	87-050-053-010	AC CORD ASSY,U-2	
△	87-085-189-010	BUSHING,AC CORD(U) CM-22C	
△ F106	87-035-493-010	FUSE,8A 125V T 237<120U>	
△ F106	87-035-494-010	FUSE,10A 125V T 237<220U>	
△ F107	87-035-493-010	FUSE,8A 125V T 237<120U>	
△ F107	87-035-494-010	FUSE,10A 125V T 237<220U>	
△ FC101	87-033-147-010	FUSE CLAMP,MT-20	
△ FC102	87-033-147-010	FUSE CLAMP,MT-20	
△ FC103	87-033-147-010	FUSE CLAMP,MT-20	
△ FC104	87-033-147-010	FUSE CLAMP,MT-20	
△ P1	87-A60-317-010	TERMINAL, 1P MSC	
△ P2	87-A60-317-010	TERMINAL, 1P MSC	
△ PT101	87-AR6-662-010	PT,U EI96-70 7AR-6<220U>	
△ PT101	87-AR7-662-010	PT,U EI85-58 7AR-7<120U>	
AC2 C.B			
△ PR11	87-026-691-080	FUSE,10A 125V 251	
△ PR12	87-026-691-080	FUSE,10A 125V 251	
△ PR13	87-026-691-080	FUSE,10A 125V 251	
△ PR14	87-026-691-080	FUSE,10A 125V 251	
△ PR15	87-026-691-080	FUSE,10A 125V 251	
△ PR16	87-026-691-080	FUSE,10A 125V 251	
RY101	87-A90-454-010	RELAY, 12V DJ12D2-O(M)	
RY102	87-A90-454-010	RELAY, 12V DJ12D2-O(M)	

TRANSISTOR ILLUSTRATION



ECB

2SA952
2SC2235
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C2N5401
CSD655
KTC3198



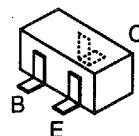
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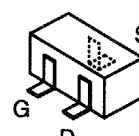


ECB

2SB1370



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CSD1306E
DTA114YK
DTA124EK
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2SK543



GDS

2SK2723

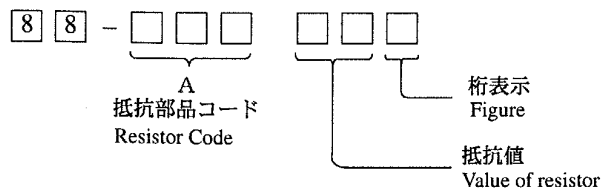


BCE

FN1016
FP1016

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

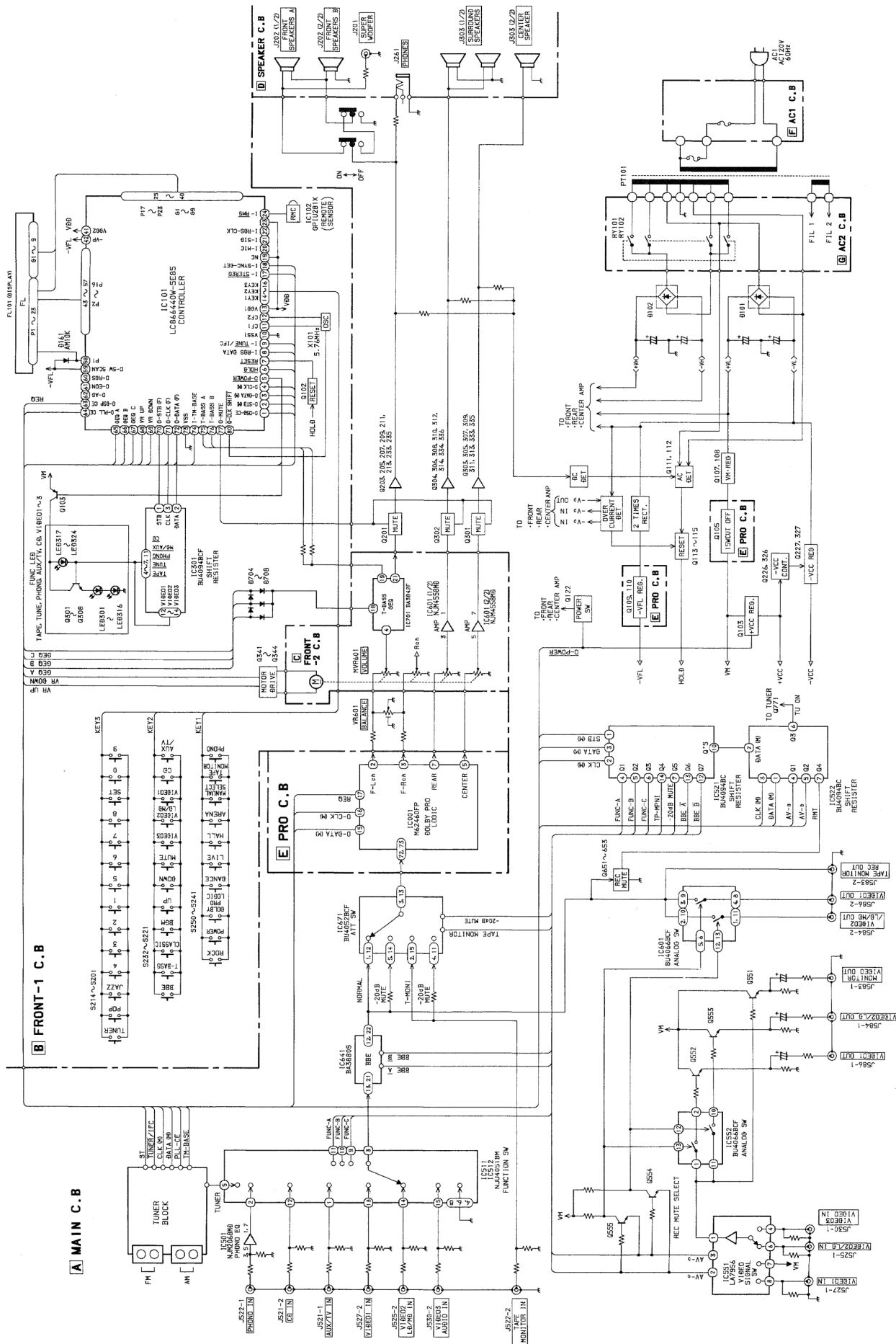
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



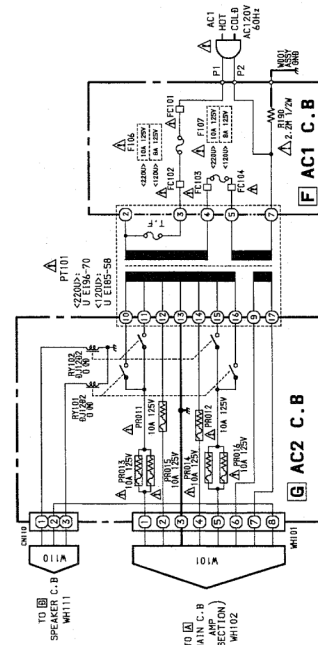
チップ抵抗
Chip resistor

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





[illegible]

IC DESCRIPTION
IC, LC866448W-5E85

Pin No.	Pin Name	I/O	Description
1	O-OSD-CE	O	OSD data latch CE output.
2	O-STB(M)	O	Main shift register data latch strobe output.
3	O-DATA(M)	O	Main shift register data output.
4	O-CLK(M)	O	Main shift register clock output.
5	O-POWER	O	System power supply ON/OFF output.
6	HOLD	I	Power failure detected input "L" to stop clock and maintain memory.
7	RESET	I	Reset input.
8	I-RDS DATA	I	RDS data input (TUNER).
9	I-TUNE/IFC	I	Tuner SD detect input. IF count serial data input.
10	VSS1	—	GND.
11, 12	CF1, 2	—	5.7 MHz oscillator circuit.
13	VDD1	—	Power supply input.
14–16	I-KEY1–3	I	Key input. (A/D).
17	I-STEREO	I	TUNER stereo signal input.
18	I-SYNC DET	I	VIDEO signal level input.
19	-	-	Not used.
20	I-MIC	I	Microphone input for auto VF display.
21	I-SIG	I	RDS signal input (TUNER).
22	I-RDS CLK	I	RDS clock input (TUNER).
23	-	-	Not used.
24	I-RMS	I	System remote control signal input.
25–33	G9–G1	O	FL grid output G9 to G1.
34–40	P23–P17	O	FL segment output.
41	VDD2	—	Power supply input.
42	-VP	—	Power supply input for FL display. (-34.5 V)
43–54	P16–P5	O	FL segment output P16–P5.
55	P4	O	FL segment output P4, AM stereo, FM-WIDE mode data input to diode.
56	P3	O	FL segment output P3, RDS mode data input to diode.
57	P2	O	FL segment output P2, K-CON mode data input to diode.
58	P1	O	FL segment output 1, AM 10kHz step data input to diode.
59	O-SW SCAN	O	Switch cam timing output.
60	O-RDS	O	RDS LED turn output.
61	O-EON	O	EON LED turn output.
62	O-AG	O	AG LED turn output.
63	DSP-CE	O	DSP data latch strobe output.
64	PLL-CE	I/O	PLL IC chip enable.
65	GEQ A	O	GEQ control output.
66	GEQ B	O	GEQ control output.
67	GEQ-C	O	GEQ/T-BASS IC GEQ control output.
68	VR-UP	O	MVR motor control (up) output.
69	VR-DOWN	O	MVR motor control (down) output.

Pin No.	Pin Name	I/O	Description
70	O-STB(F)	O	Front shift register, data latch strobe output.
71	O-CLK(F)	O	Front shift register, data transfer clock output.
72	O-DATA(F)	O	Front shift register, data output.
73	VSS2	—	GND.
74	I-TM BASE	I	Reference clock input for timer watch.
75	T-BSS A	O	GEQ/T-BASS IC T-BASS control output.
76	T-BSS B	O	GEQ/T-BASS IC T-BASS control output.
77	O-MUTE	O	System mute output.
78	O-RT	O	RT LED turn output.
79	O-TRFC	O	TRFC LED turn output.
80	$\overline{\text{O-CLK SHIFT}}$	O	Micro clock shift output.

See the AV-X100/X200(S/M Cord No.09-967-142-10I)of the IC BLOCK DIAGRAM below.

AV-X100/X200		AV-X120 /X220	
LA1836		LA1836	
BU4094BCF		BU4094BCF	
LC72131		LC72131	
BA3880S		BA3880S	
BA3842F		BA3842F	





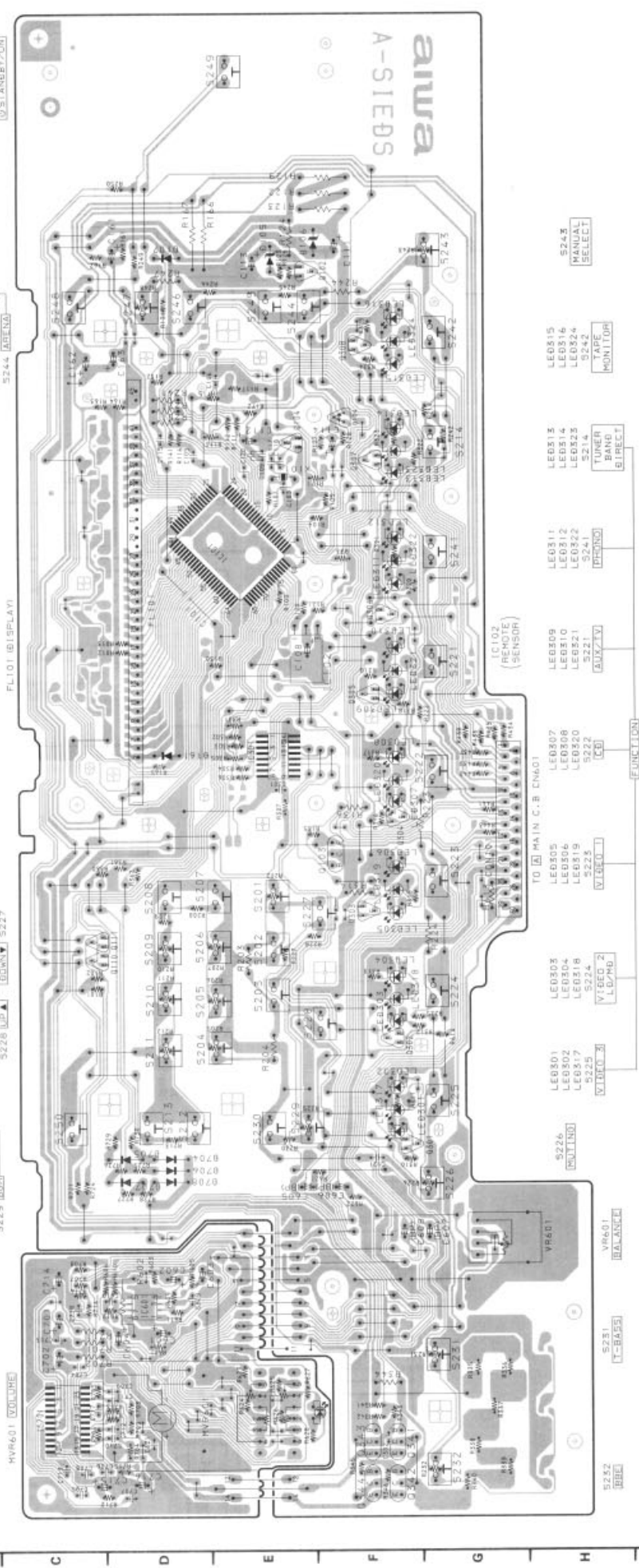
C FRONT-2 C.B

B FRONT-1 C.B

STATION
PRESET
TUNING
5211 5210 5209 5208
5204 5203 5202 5201
5200 5200 5200 5200
5226 5227

5250 5250
5213 5213
5212 5212
5250 5250
5229 5229

5248 5248
5247 5247
5246 5246
5245 5245
5244 5244



TO MAIN C.B. CN601

FUNCTION

REMOTE (SENSOR)

TUNER DIRECT

TAPE MONITOR

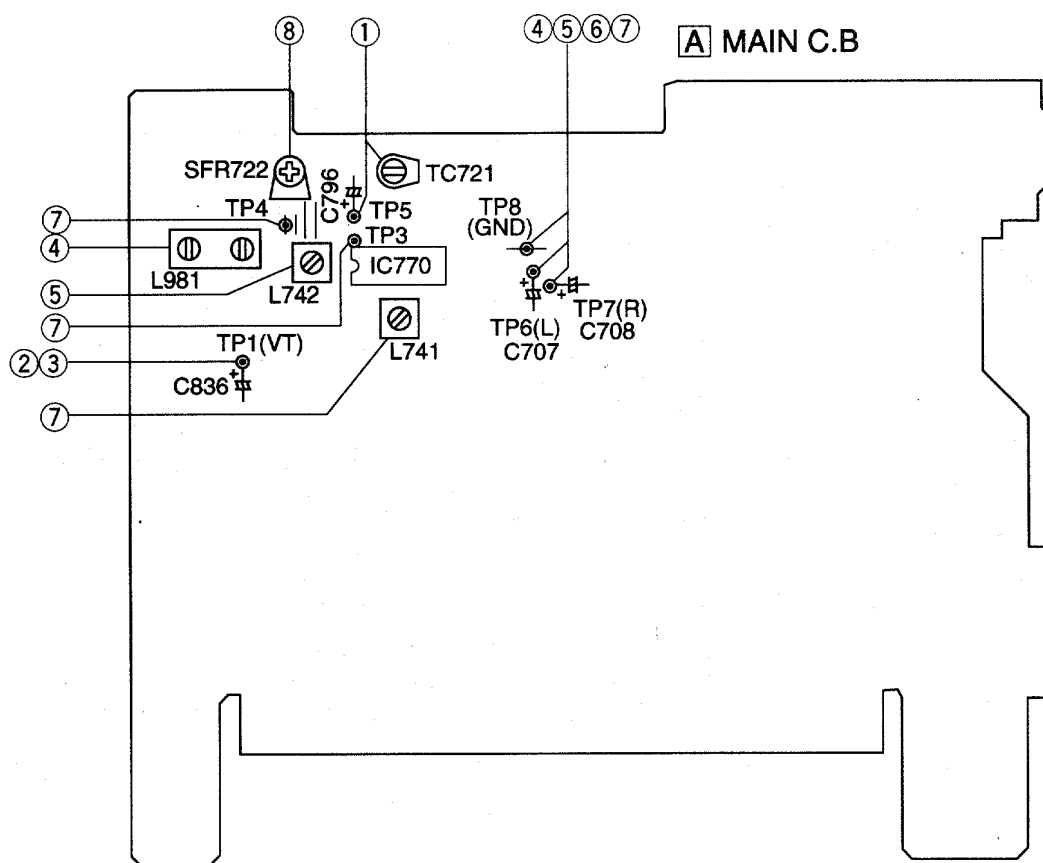
MANUAL SELECT

POWER ON

STANDBY/ON



ADJUSTMENT



1. Clock Frequency Adjustment

Settings: · Test point : TP5(CLK IC770 pin 30)

· Adjustment location : TC721

Method: Set to AM 1710kHz and adjust TC721 so that the test point becomes $2160\text{kHz} \pm 0.01\text{kHz}$.

2. AM VT Check

Settings: · Test point : TP1(VT)

Method: Set to AM 530kHz and check the test point is $1.1 \pm 0.20\text{V}$.

3. FM VT Check

Setting: · Test point : TP1(VT)

Method: Set to FM 108.0MHz and check that the test point is $7.5 \pm 1.0\text{V}$. Then set to FM 87.5MHz and check that the test point is $2.9 \pm 1.0\text{V}$.

4. AM Tracking Adjustment

Settings: · Test point : TP6(Lch), TP7(Rch), TP8(GND)
· Adjustment location : L981

Method: Set to AM 1000kHz and adjust L981 that the test point becomes maximum.

5. AM IF Adjustment

Setting: · Test point : TP6(Lch), TP7(Rch), TP8(GND)
L742 450kHz

6. FM Tracking Check

Setting: · Test point : TP6(Lch), TP7(Rch), TP8(GND)

Method: Set to FM 87.5MHz and 108.0MHz, and check that the test point is $4 \pm 4\text{dB}$ and $6 \pm 4\text{dB}$.

7. DC Balance/MONO Distortion Adjustment

Settings: · Test point : TP3, TP4 (DC Balance)
TP6(Lch), TP7(Rch), TP8(GND) (Distortion)

· Adjustment location : L741

· Input level : 60dB

Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.01\text{V}$.

Next check that the distortion is less than 1.3%

8. Auto Stop Level Adjustment

Settings: · Adjustment location : SFR722

· Input level : 20dB

Method: Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

PRACTICAL SERVICE FIGURE

TUNER SECTION

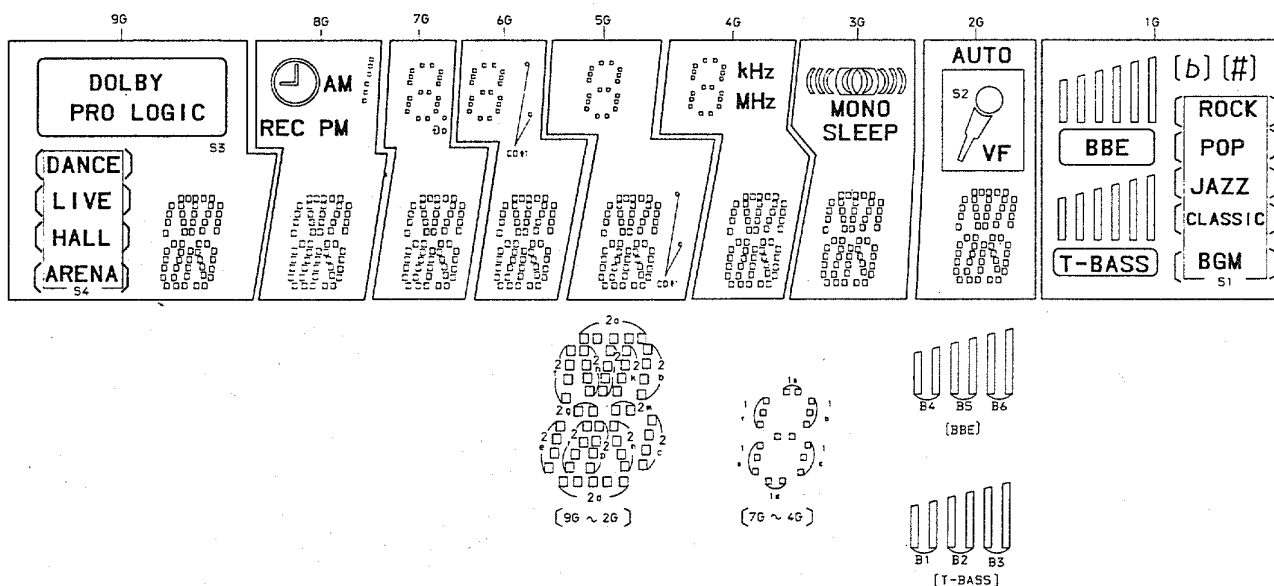
<FM SECTION>

IHF Sensitivity : 6dB $\pm$ 6dB
(THD 3%) (87.5MHz/98.0MHz)
8dB $\pm$ 6dB(108.0MHz)
S/N 50dB Quieting Sensitivity: 31dB $\pm$ 5dB
(87.5/98.0/108.0MHz)
Signal to noise ratio : More than 64dB(98.0MHz)
Distortion : Less than 1.3%(98.0MHz)
Stereo separation : More than 25dB(98.0MHz)
Intermediate frequency : 10.7MHz

<AM SECTION>

Sensitivity : 57dB $\pm$ 6dB(600kHz)
(S/N 20dB) 53dB $\pm$ 6dB(1000/1400kHz)
Distortion : Less than 1.5%(1000kHz)
Auto stop level : 50dB $\pm$ 10dB(1000kHz)
Intermediate frequency : 450kHz

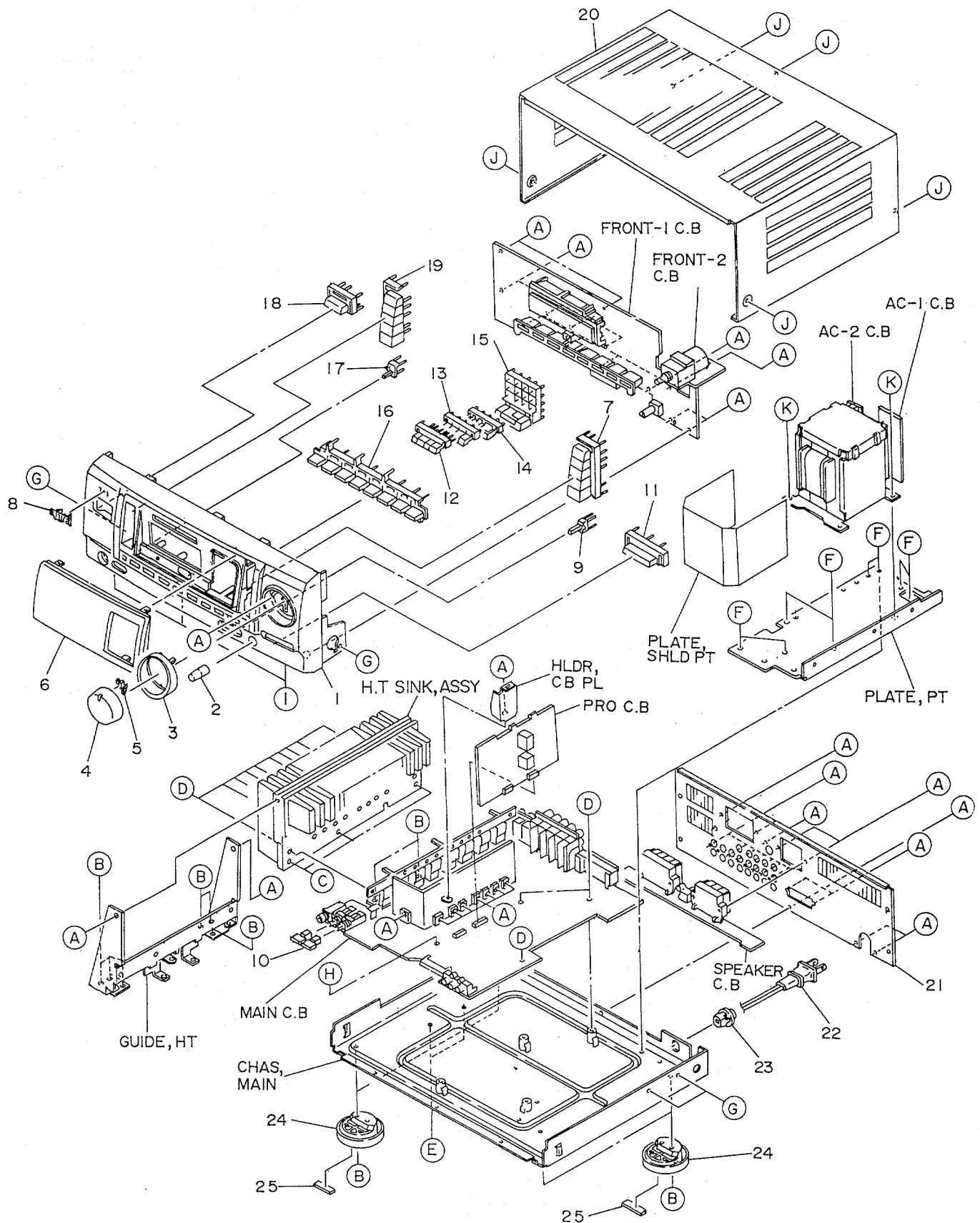
FL DISPLAY



ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	2d	2d	2d	2d	T-BASS
P2	2n	2n	2n	2n	2n	2n	2n	2n	B3
P3	2p	2p	2p	2p	2p	2p	2p	2p	B2
P4	2r	2r	2r	2r	2r	2r	2r	2r	B1
P5	2e	2e	2e	2e	2e	2e	2e	2e	S1
P6	2c	2c	2c	2c	2c	2c	2c	2c	(BGM)
P7	2g	2g	2g	2g	2g	2g	2g	2g	(CLASSIC)
P8	2m	2m	2m	2m	2m	2m	2m	2m	(JAZZ)
P9	2f	2f	2f	2f	2f	2f	2f	2f	(POP)
P10	2b	2b	2b	2b	2b	2b	2b	2b	(ROCK)
P11	2k	2k	2k	2k	2k	2k	2k	2k	(#)
P12	2j	2j	2j	2j	2j	2j	2j	2j	#
P13	2h	2h	2h	2h	2h	2h	2h	2h	((b))
P14	2a	2a	2a	2a	2a	2a	2a	2a	b
P15	S4	—	1d	1d	1d	1d	SLEEP	S2	BBE
P16	(ARENA)	PM	1e	1e	1e	1e	MONO	AUTO	B6
P17	(HALL)	AM	1c	1c	1c	1c	((000))	—	B5
P18	(LIVE)	REC	1g	1g	1g	1g	—	—	B4
P19	(DANCE)	⌚	1f	1f	1f	1f	—	—	—
P20	S3	—	1b	1b	1b	1b	—	—	—
P21	—	—	1a	1a	1a	1a	—	—	—
P22	—	—	col1 (DOWN)	col2	col2	MHz	—	—	—
P23	—	—	col1 (UP)	—	—	kHz	—	—	—

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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	87-AR7-002-010		CABI,FR U<X120>	20	86-AR5-002-010		CABI,STEEL
1	87-AR6-002-010		CABI,FR U<X220U>	21	87-AR7-006-010		PANEL,REAR U<X120>
2	86-AR5-034-010		KNOB,RTRY MIC 2	21	87-AR6-007-010		PANEL,REAR UBN<X220U>
3	86-AR5-018-010		RING,VOL	22	87-050-053-010		AC CORD ASSY,U-2
4	86-AR5-016-210		KNOB,RTRY VOL	23	87-085-189-010		BUSHING,AC CORD(U) CM-22C
5	86-AR5-017-010		REFLECTOR,VOL	24	86-AR5-023-010		FOOT,FR
6	86-AR5-020-110		WINDOW,DISPLAY	25	82-VW2-211-010		FELT,20-7.5-2
7	86-AR5-005-010		KEY,GBQ	A	87-067-703-010		BVT2+3-10 W/O SLOT
8	82-NE8-032-010		BADGE,AIWA 27.5 ABS GLD	B	87-067-688-010		BVTT+3-6
9	86-AR5-008-010		KEY,MUTE	C	87-067-758-010		BVT2+3-12 W/O SLOT
10	86-AR5-009-010		KEY,SELECT	D	87-067-581-010		BVT2+3-15 W/O SLOT
11	86-AR5-011-010		KEY,BBE	E	87-067-585-010		BVTT+4-6
12	86-AR5-012-010		KEY,10 A	F	87-067-586-010		BVTT+4-8
13	86-AR5-013-010		KEY,10 B	G	87-591-095-410		QIT+3-8
14	86-AR5-014-010		KEY,10 C	H	87-067-632-010		BVT2+3-15 W/O SLOT W/CONVEX
15	86-AR5-015-010		KEY,UP/DOWN	I	87-067-716-010		BVTT+3-6 BLK
16	86-AR5-006-010		KEY,FUN	J	87-067-641-010		UTT2+3-8 W/O SLOT BLK
17	86-AR5-007-010		KEY,MODE	K	87-067-975-010		S-SCREW,IT+4-8 SWCH12A
18	86-AR5-003-010		KEY,POWER				
19	86-AR5-004-010		KEY,DSP				

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-AR6-903-010		IB<X220>
1	87-AR7-903-010		IB<X120>
2	87-006-225-010		ANT,LOOP ANT NC2
3	87-043-115-010		FEEDER-ANT,FM
4	87-AR4-685-010		RC UNIT,RC-AR01<X220>
5	87-AR7-650-010		RC UNIT,RC-7AR02<X120>

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
TRIMMER	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
HLD	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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