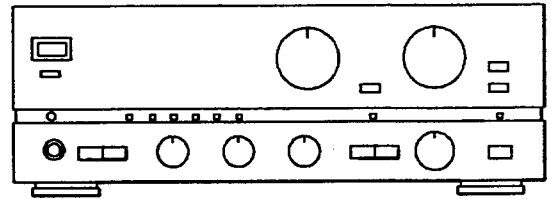


aiwa

XA-950

SERVICE MANUAL



STEREO INTEGRATED AMPLIFIER

• TYPE. E,K,Z

SPECIFICATIONS

General

Power requirements

XA-950E, Z
230V AC, 50 Hz
XA-950K
240V AC, 50 Hz

Power consumption

300 W

Power amplifier

Effective output power

150 W+150 W
(4 ohms, T.H.D. 0.9%,
1 kHz)
100 W+100 W
(8 ohms, T.H.D. 0.9%,
1 kHz)

Total harmonic distortion

0.005%
(20 Hz-20 kHz, 75 W,
8 ohms)

Output bandwidth

5 Hz-70 kHz
(less than 0.05%)
(Both channels driven,
8 ohms)

Frequency response

5 Hz-150 kHz (±0 dB)

Preamplifier

S/N ratio

IHF A curve short circuited
PHONO : MM 95 dB
(5 mV input)
: MC 75 dB
(0.5 mV input)
TUNER, CD, VIDEO/AUX,
TAPE 1, TAPE 2/DAT,
ADAPTOR: 110 dB

Input jacks

(Sensitivity/Input impedance)

PHONO : MM
2.5 mV/47k ohms
: MC
0.2 mV/100 ohms
TUNER, CD VIDEO/AUX,
TAPE 1, TAPE 2/DAT,
ADAPTOR: 150 mV/47k ohms

PHONO overload level

130 mV (MM)
(1 kHz, T.H.D. 0.01%)

Output jacks

(Level/output impedance)

TAPE 1, TAPE 2/DAT,
ADAPTOR: 150 mV/47k ohms
Headphones: 8-32 ohms
Speakers: 4-16 ohms
(A+B: 8-16 ohms)

RIAA deviation

SUBSONIC filter

±0.5 dB (30 Hz-15 kHz)

16 Hz 12 dB/Oct

Maximum dimensions

(w/h/d)

430 x 140 x 340 mm
(17 x 5^{5/8} x 13^{1/2} inches)

Weight

10.5 kg (23.1 lbs)

- Design and specifications are subject to change without notice.
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AIWA CO., LTD.

Tokyo Japan

Printed in Japan

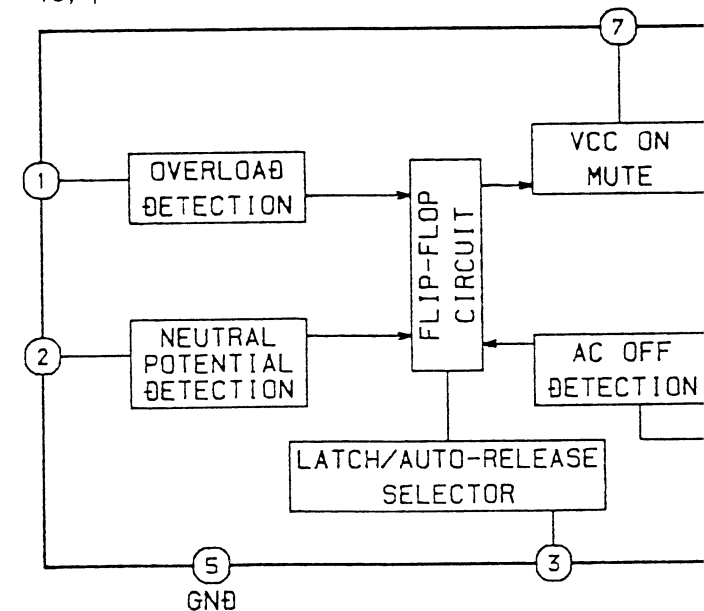
1000

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
--- IC ---			C133	★87-018-100-089	CAP, CERA-SOL U 4.7P-50 SL
	87-002-669-010	IC, GP1U-571X (SENSOR)	C134	★87-018-100-089	CAP, CERA-SOL U 4.7P-50 SL
	87-020-738-019	IC, LB1630	C135	★87-018-217-089	CAP, CERA-SOL U 3300P-50C (Z)
	82-AA1-645-110	IC, LC6527H-4989	C136	★87-018-217-089	CAP, CERA-SOL U 3300P-50C (Z)
	87-001-171-019	IC, NJM2068D	C137	★87-018-217-089	CAP, CERA-SOL U 3300P-50C (Z)
	87-001-536-019	IC, NJM78M05FA	C138	★87-018-217-089	CAP, CERA-SOL U 3300P-50C (Z)
	87-027-787-010	IC, UPC1237H	C139	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B (Z)
			C140	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B (Z)
--- TRANSISTOR ---			C141	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B (Z)
	89-503-696-080	FET, 2SK369 (BL)	C142	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B (Z)
	89-109-705-089	TRANSISTOR, 2SA970 (GR)	C143	★87-018-133-089	CAP, CERA-SOL U 4700P-16 X (Z)
	89-110-155-089	TRANSISTOR, 2SA1015 (GR)	C144	★87-018-133-089	CAP, CERA-SOL U 4700P-16 X (Z)
	89-112-162-310	TRANSISTOR, 2SA1216 (P/Y)	C145	★87-010-401-089	CAP, ELECT 1-50 SME
	89-112-201-210	TRANSISTOR, 2SA1220A (R/Q)	C146	★87-010-401-089	CAP, ELECT 1-50 SME
	89-113-603-410	TRANSISTOR, 2SA1360 (Q, Y)	C152	★87-010-401-089	CAP, ELECT 1-50 SME
	89-213-302-089	TRANSISTOR, 2SB1330 (Q)	C153	★87-010-762-089	CAP, ELECT, 220-10V 8P
	89-318-155-089	TRANSISTOR, 2SC1815 (GR)	C155	★87-010-405-089	CAP, ELECT 10-50 SME
	89-322-405-089	TRANSISTOR, 2SC2240 (GR)	C156	★87-010-260-089	CAP, ELECT 47-25 SME
	89-326-821-210	TRANSISTOR, 2SC2682 (Q/P)	C157	★87-010-260-089	CAP, ELECT 47-25 SME
	89-326-901-210	TRANSISTOR, 2SC2690A (R/Q)	C158	★87-010-260-089	CAP, ELECT 47-25 SME
	89-329-222-310	TRANSISTOR, 2SC2922 (P/Y)	C159	★87-010-260-089	CAP, ELECT 47-25 SME
	89-333-296-089	TRANSISTOR, 2SC3329 (BL)	C160	★87-010-260-089	CAP, ELECT 47-25 SME
	89-334-194-010	TRANSISTOR, 2SC3419 (Y)	C161	★87-010-260-089	CAP, ELECT 47-25 SME
	89-420-062-089	TRANSISTOR, 2SD2006 (Q)	C162	★87-010-260-089	CAP, ELECT 47-25 SME
--- DIODE ---			C163	★87-010-397-099	CAP, ELECT 1000-35
	87-020-123-089	DIODE DS446-AT (TA)	C164	★87-010-397-099	CAP, ELECT 1000-35
	87-001-783-089	DIODE, 1N4002-T	C165	★82-AA1-631-010	CAP, ELECT 12000-63
	87-020-110-089	DIODE, 1SS177	C166	★82-AA1-631-010	CAP, ELECT 12000-63
	87-027-788-010	DIODE, 05FB20	C171	★87-010-384-089	CAP, ELECT 100-25 SME
	87-027-224-089	DIODE, ZENER 05Z12L	FR1	★87-029-130-090	RES, FUSE 220-1W
	87-027-449-089	DIODE, ZENER HZ15-3L	FR2	★87-029-130-090	RES, FUSE 220-1W
--- MAIN CIRCUIT BOARD SECTION ---			J102	★87-009-395-010	JACK, PIN 6P EARTH (INPUT)
C41	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	J103	★87-009-392-010	JACK, PIN 6P (TAPE 2/DAT, TAPE 1)
C42	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	J104	★87-009-392-010	JACK, PIN 6P (TAPE 1, ADAPTOR)
C43	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	L1	★87-005-158-019	COIL, 1UH
C44	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	L2	★87-005-158-019	COIL, 1UH
C45	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R159	★87-022-326-089	RES, NF 56-1/4W J
C46	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R160	★87-022-326-089	RES, NF 56-1/4W J
C47	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R163	★87-025-479-089	RES, NF 100-1/4 WJ
C48	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R164	★87-025-479-089	RES, NF 100-1/4 WJ
C49	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R165	★87-025-479-089	RES, NF 100-1/4 WJ
C50	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R166	★87-025-479-089	RES, NF 100-1/4 WJ
C51	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R173	87-025-477-089	RES, NF 47-1/4W J
C52	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R174	87-025-477-089	RES, NF 47-1/4W J
C53	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R175	87-025-477-089	RES, NF 47-1/4W J
C54	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R176	87-025-477-089	RES, NF 47-1/4W J
C55	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R179	★81-AA3-619-010	RES, 0.22-5WX2 MPC
C56	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R180	★81-AA3-619-010	RES, 0.22-5WX2 MPC
C57	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R193	★87-025-487-089	RES, M/F 10-1W
C58	★87-018-121-089	CAP, CERA-SOL U 150P-50 B (Z)	R194	★87-025-487-089	RES, M/F 10-1W
C59	★87-018-134-089	CAP, CERA-SOL U 0.01-16 Y	R197	★87-025-347-090	RES, 10-2W
C101	★87-010-405-089	CAP, ELECT 10-50 SME	R198	★87-025-347-090	RES, 10-2W
C102	★87-010-405-089	CAP, ELECT 10-50 SME	R223	★87-025-471-089	RES, NF 4.7-1/4WJ
C103	★87-010-430-089	CAP, ELECT 100-63	R224	★87-025-471-089	RES, NF 4.7-1/4WJ
C104	★87-010-430-089	CAP, ELECT 100-63	R225	★87-025-471-089	RES, NF 4.7-1/4WJ
C109	★87-010-430-089	CAP, ELECT 100-63	R226	★87-025-471-089	RES, NF 4.7-1/4WJ
C110	★87-010-430-089	CAP, ELECT 100-63	R227	★87-025-484-089	RES, NF 680-1/4W J
C111	★87-010-263-089	CAP, ELECT 100-10	R228	★87-025-484-089	RES, NF 680-1/4W J
C112	★87-010-263-089	CAP, ELECT 100-10	R231	★87-025-467-089	RES, NF 1-1/4 WJ
C127	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B	R232	★87-025-467-089	RES, NF 1-1/4 WJ
C128	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B	RY1	★87-045-330-010	RELAY, RY-12WK
			RY2	★87-045-330-010	RELAY, RY-12WK
			RY3	★87-045-330-010	RELAY, RY-12WK
			RY4	★87-045-330-010	RELAY, RY-12WK

IC BLOCK DIAGRAM

IC, μ PC1237H



REF. NO.	PART NO.	DESCRIPTION
RY5	★87-045-330-010	RELAY, RY-12WK
RY6	★87-045-330-010	RELAY, RY-12WK
RY7	★87-045-316-010	RELAY, VB-24SMBU-SP
RY8	★87-045-316-010	RELAY, VB-24SMBU-SP
RY9	★87-045-339-010	RELAY, RY24W K 24V
S7	★82-AA1-633-010	SW, PUSH (ADAPTOR TAPE MONITOR)
S10	★82-AA1-618-010	SW, ROTARY (REC SELECTOR)
SFR1	★87-024-171-089	SFR, 4. 7K DIA6 V
SFR2	★87-024-171-089	SFR, 4. 7K DIA6 V
T101	★87-033-210-010	TERMINAL, 8P SPKR (SPEAKERS) (K)
T101	★87-033-222-010	TERMINAL, 8P SPKR (SPEAKERS) (E, Z)

=== FRONT CIRCUIT BOARD SECTION ===

C61	★87-018-126-089	CAP, CERA-SOL U 390P-50 B
C62	★87-018-126-089	CAP, CERA-SOL U 390P-50 B
C65	★87-010-401-089	CAP, ELECT 1-50 SME
C66	★87-010-401-089	CAP, ELECT 1-50 SME
C67	★87-018-109-089	CAP, CERA-SOL U 22P-50 SL
C68	★87-018-109-089	CAP, CERA-SOL U 22P-50 SL
C69	★87-010-403-089	CAP, ELECT 3.3-50 SME
C70	★87-010-403-089	CAP, ELECT 3.3-50 SME
C77	★87-018-123-089	CAP, CERA-SOL U 220P-50 B
C78	★87-018-123-089	CAP, CERA-SOL U 220P-50 B
C81	★87-010-382-089	CAP, ELECT 22-25 SME
C82	★87-010-382-089	CAP, ELECT 22-25 SME
C83	★87-010-401-089	CAP, ELECT 1-50 SME
C84	★87-010-401-089	CAP, ELECT 1-50 SME
C85	★87-010-260-089	CAP, ELECT 47-25 SME
C86	★87-010-260-089	CAP, ELECT 47-25 SME
C87	★87-018-109-089	CAP, CERA-SOL U 22P-50 SL
C88	★87-018-109-089	CAP, CERA-SOL U 22P-50 SL
C89	★87-010-260-089	CAP, ELECT 47-25 SME
C90	★87-010-260-089	CAP, ELECT 47-25 SME
C91	★87-010-404-089	CAP, ELECT 4.7-50 SME
C92	★87-010-404-089	CAP, ELECT 4.7-50 SME
C172	★87-018-209-089	CAP, CERA-SOL U 0.1-50 F
C173	★87-018-209-089	CAP, CERA-SOL U 0.1-50 F
C174	★87-018-209-089	CAP, CERA-SOL U 0.1-50 F
C175	★87-018-209-089	CAP, CERA-SOL U 0.1-50 F
C176	★87-018-209-089	CAP, CERA-SOL U 0.1-50 F
C177	★87-018-209-089	CAP, CERA-SOL U 0.1-50 F
C201	★87-010-370-089	CAP, ELECT 330-6.3 SME
C202	★87-010-401-089	CAP, ELECT 1-50 SME
C203	★87-010-401-089	CAP, ELECT 1-50 SME
C204	★87-015-695-089	CAP, ELECT 1-50 TL
C205	★87-018-133-089	CAP, CERA-SOL U 4700P-16 X
C206	★87-018-133-089	CAP, CERA-SOL U 4700P-16 X
C207	★87-010-370-089	CAP, ELECT 330-6.3 SME
LED2	★87-002-819-080	LED, SLR-56VR (SOURCE DIRECT)
LED3	★87-002-819-080	LED, SLR-56VR (PHONO)
LED4	★87-002-819-080	LED, SLR-56VR (TUNER)
LED5	★87-002-819-080	LED, SLR-56VR (CD)
LED6	★87-002-819-080	LED, SLR-56VR (VIDEO/AUX)
LED7	★87-002-819-080	LED, SLR-56VR (TAPE2→1)
LED8	★87-002-819-080	LED, SLR-56VR (TAPE1→2)
LED9	★87-002-819-080	LED, SLR-56VR (POWER)
R250	★87-025-478-089	RES, NF 68-1/4W J
S4	★82-AA1-634-010	SW, PUSH (MUTING)
S5	★82-AA1-635-010	SW, PUSH (LOUDNESS, SOURCE DIRECT)
VR2	★82-AA1-640-010	VR, 100K (M.N) (BALANCE)
VR3	★82-AA1-641-010	VR, 50K (C) C OPEN (TREBLE)
VR4	★82-AA1-642-010	VR, 50K (C) C SHORT (BASS)
X1	★87-MX1-704-089	CERA LOCK (MU) 3.9MHZ

REF. NO.	PART NO.	DESCRIPTION
=== EQ CIRCUIT BOARD SECTION ===		
C1	★87-018-119-089	CAP, CERA-SOL U 100P-50 B (E, K)
C2	★87-018-119-089	CAP, CERA-SOL U 100P-50 B (E, K)
C3	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B
C4	★87-018-131-089	CAP, CERA-SOL U 1000P-50 B
C5	★87-018-125-089	CAP, CERA-SOL U 330P-50 B
C6	★87-018-125-089	CAP, CERA-SOL U 330P-50 B
C7	★87-018-125-089	CAP, CERA-SOL U 330P-50 B (Z)
C8	★87-018-125-089	CAP, CERA-SOL U 330P-50 B (Z)
C9	★87-018-114-089	CAP, CERA-SOL U 39P-50 SL
C10	★87-018-114-089	CAP, CERA-SOL U 39P-50 SL
C11	★87-018-199-089	CAP, CERA-SOL U 3300P-16 X
C12	★87-018-199-089	CAP, CERA-SOL U 3300P-16 X
C13	★87-010-370-089	CAP, ELECT 330-6.3 SME
C14	★87-010-370-089	CAP, ELECT 330-6.3 SME
C21	★87-010-404-089	CAP, ELECT 4.7-50 SME
C22	★87-010-404-089	CAP, ELECT 4.7-50 SME
C23	★87-018-200-089	CAP, CERA-SOL U 3900P-16X
C24	★87-018-200-089	CAP, CERA-SOL U 3900P-16X
C29	★87-018-121-089	CAP, CERA-SOL U 150P-50 B
C30	★87-018-121-089	CAP, CERA-SOL U 150P-50 B
C31	★87-010-404-089	CAP, ELECT 4.7-50 SME
C32	★87-010-404-089	CAP, ELECT 4.7-50 SME
C33	★87-018-134-089	CAP, CERA-SOL U 0.01-16 Y
C35	★87-010-260-089	CAP, ELECT 47-25 SME
C36	★87-010-260-089	CAP, ELECT 47-25 SME
C37	★87-010-381-089	CAP, ELECT 330-16 SME
C38	★87-010-381-089	CAP, ELECT 330-16 SME
C39	★87-010-260-089	CAP, ELECT 47-25 SME
C40	★87-010-260-089	CAP, ELECT 47-25 SME
C401	★87-010-260-089	CAP, ELECT 47-25 SME
C402	★87-010-260-089	CAP, ELECT 47-25 SME
J101	★87-009-610-019	JACK, PIN 2P H EARTH (PHONO INPUT)
L3	87-005-154-089	COIL 220UH LAL03 (Z)
L4	87-005-154-089	COIL 220UH LAL03 (Z)
L5	87-005-154-089	COIL 220UH LAL03 (Z)
L6	87-005-154-089	COIL 220UH LAL03 (Z)
S8	★82-AA1-636-010	SW, PUSH (SUBSONIC)
S9	★82-AA1-637-010	SW, PUSH (CARTRIDGE)

=== LED CIRCUIT BOARD SECTION ===

LED1	87-002-819-080	LED, SLR-56VR (ADAPTOR TAPE MONITOR)
------	----------------	--------------------------------------

=== PHONES CIRCUIT BOARD SECTION ===

J105	★87-009-043-010	JACK, 6.3 12.5-11.5 (PHONES)
S2	★82-AA1-632-010	SW, PUSH (SPEAKERS)

=== VOL. CIRCUIT BOARD SECTION ===

C167	★87-010-382-089	CAP, ELECT 22-25 SME
C168	★87-010-382-089	CAP, ELECT 22-25 SME
L7	87-005-235-080	COIL 2.7MMH
VR1	★82-AA1-639-010	VR, 100K (B) W/LED 10, MOTOR (VOLUME)

=== PULSE SW CIRCUIT BOARD SECTION ===

S11	★82-AA1-638-010	SW, ROTARY (INPUT SELECTOR)
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=== REMOTE CIRCUIT BOARD SECTION ===

=== P.T. CIRCUIT BOARD SECTION ===

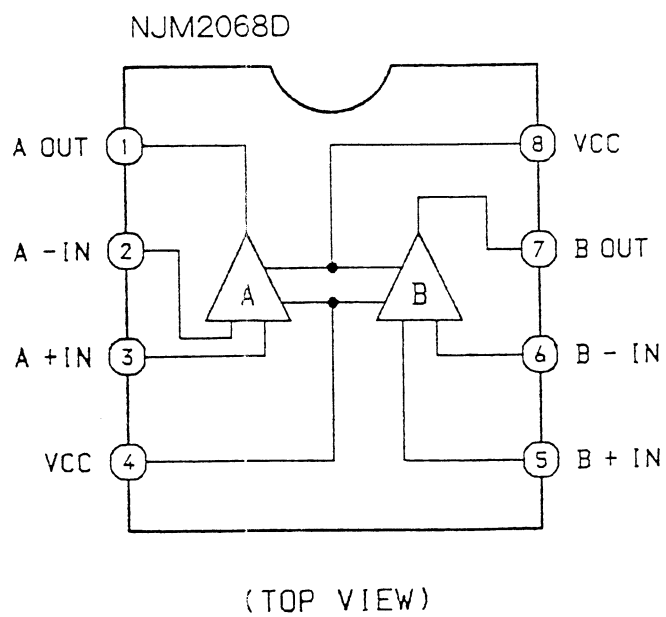
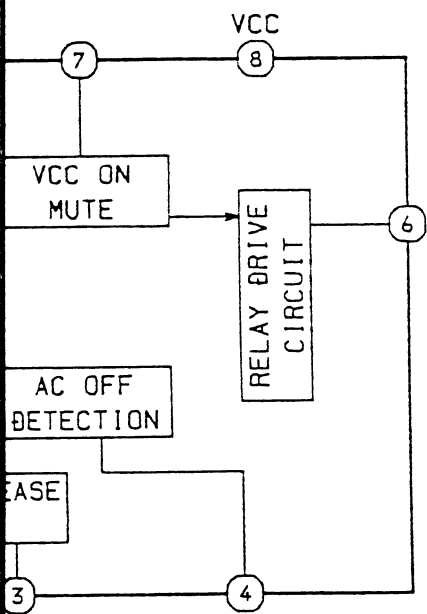
△	87-033-213-089	CLAMP FUSE SMK
C199	★87-016-157-090	CAP, MYLER 0.1-250
△F1	87-035-367-010	FUSE, 3.15A 250V T E

REF. NO.	PART NO.	DESCRIPTION
△PT1	82-AA1-608-018	PT, E (E, Z)
△PT1	82-AA1-609-018	PT, K (K)
=== P.S. CIRCUIT BOARD SECTION ===		
△C251	★87-019-112-019	CAP, SG 0.01 E
△S1	87-036-234-010	SW, PUSH (POWER)
=== OUTLET (E, K, Z ONLY) CIRCUIT BOARD SECTION ===		
△J8	★87-009-932-010	OUTLET, AC E (AC OUTLET) (E, Z)
△J8	★87-009-933-010	OUTLET, AC K-N (AC OUTLET) (K)
△J9	★87-009-932-010	OUTLET, AC E (AC OUTLET) (E, Z)
△J9	★87-009-933-010	OUTLET, AC K-N (AC OUTLET) (K)
=== MISCELLANEOUS ===		
△	★87-034-592-018	AC CORD (BS) (K)
△	★87-034-781-018	AC CORD (E) (E, Z)
△	★87-085-185-010	BUSHING, AC CORD E

IC DESCRIPTION

IC, LC6527H - 4989

Pin No.	Pin Name	I/O	DESCRIPTION
1	OSC1	-	SYSTEM clock osci
2	TEST	-	Clock frequency is
3	VSS	I	Connected to groun
4	RES	I	SYSTEM reset input
5	PA0	-	Power on detection
6	PA1	I	ENCODER A signal
7	PA2	I	ENCODER B signal
8	PA3	I	REMOCON signal in
9	VDD	-	Power supply. (con
10	PC0	O	VOLUME UP signal
11	PC1	O	VOLUME DOWN si
12	PC2	O	RELAY, LED driver
13	PC3	O	RELAY, LED driver
14	PD0	O	RELAY, LED driver
15	PD1	O	RELAY, LED driver
16	PD2	O	RELAY, LED driver
17	PD3	O	RELAY, LED driver
18	OSC2	-	SYSTEM clock osci



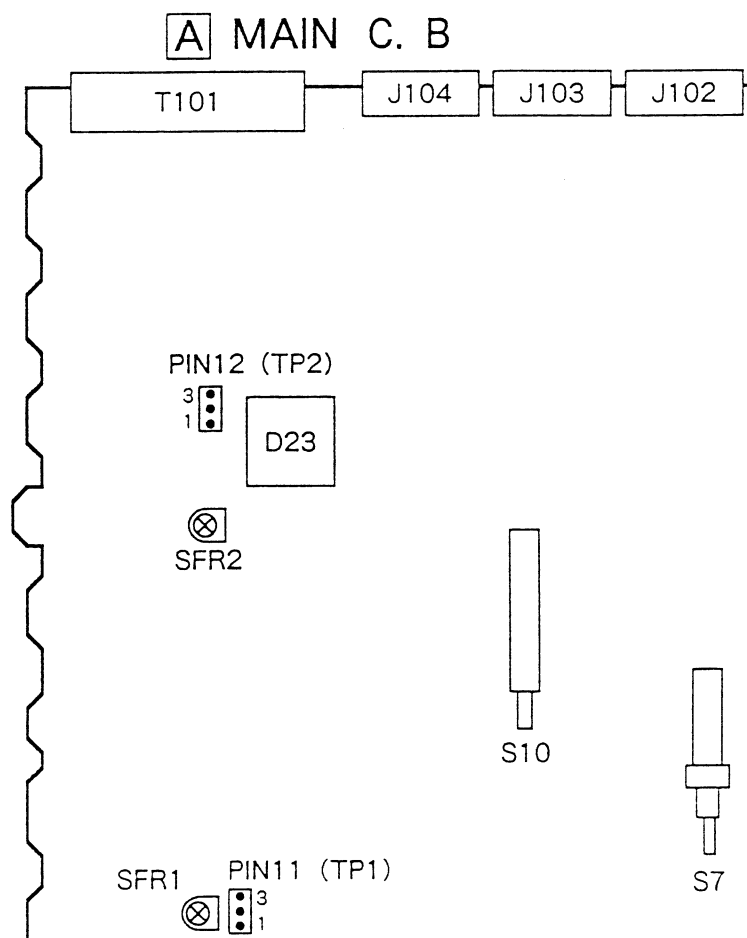
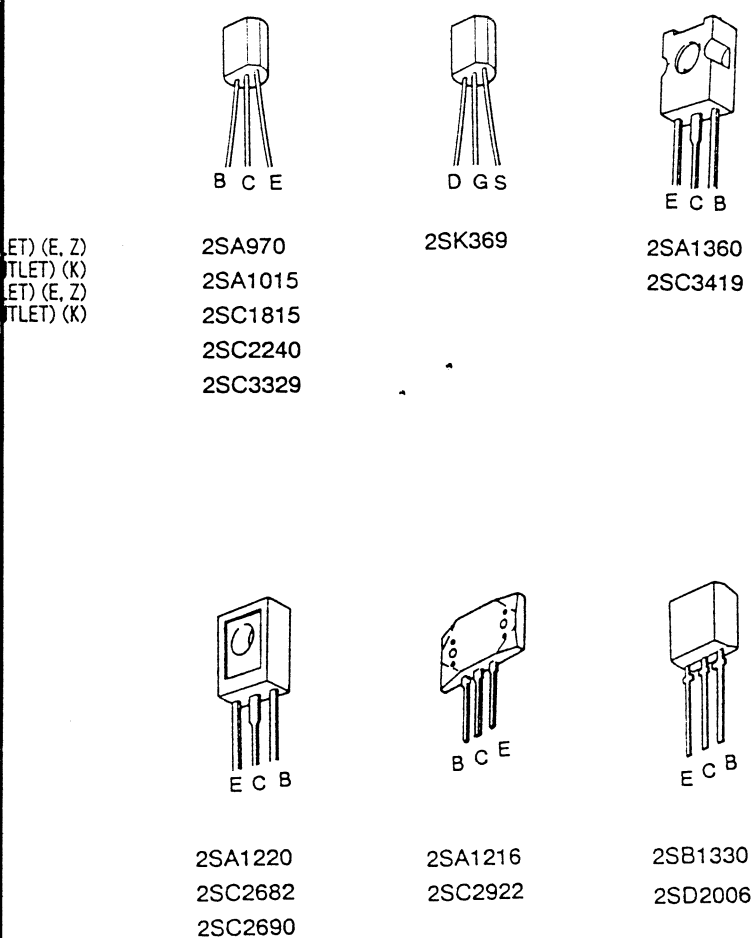
TRUTH TABLE

LB1630

IN1	IN2	OUT1	OUT2	MOTOR
H	L	H	L	FORWARD
L	H	L	H	REVERSE
H	H	OFF	OFF	STANDBY
L	L	OFF	OFF	STANDBY

TRANSISTOR ILLUSTRATION

ADJUSTMENT



IDLING CURRENT ADJUSTMENT

Settings : • Test Points : TP1 (PIN11, Lch)

TP2 (PIN12, Rch)

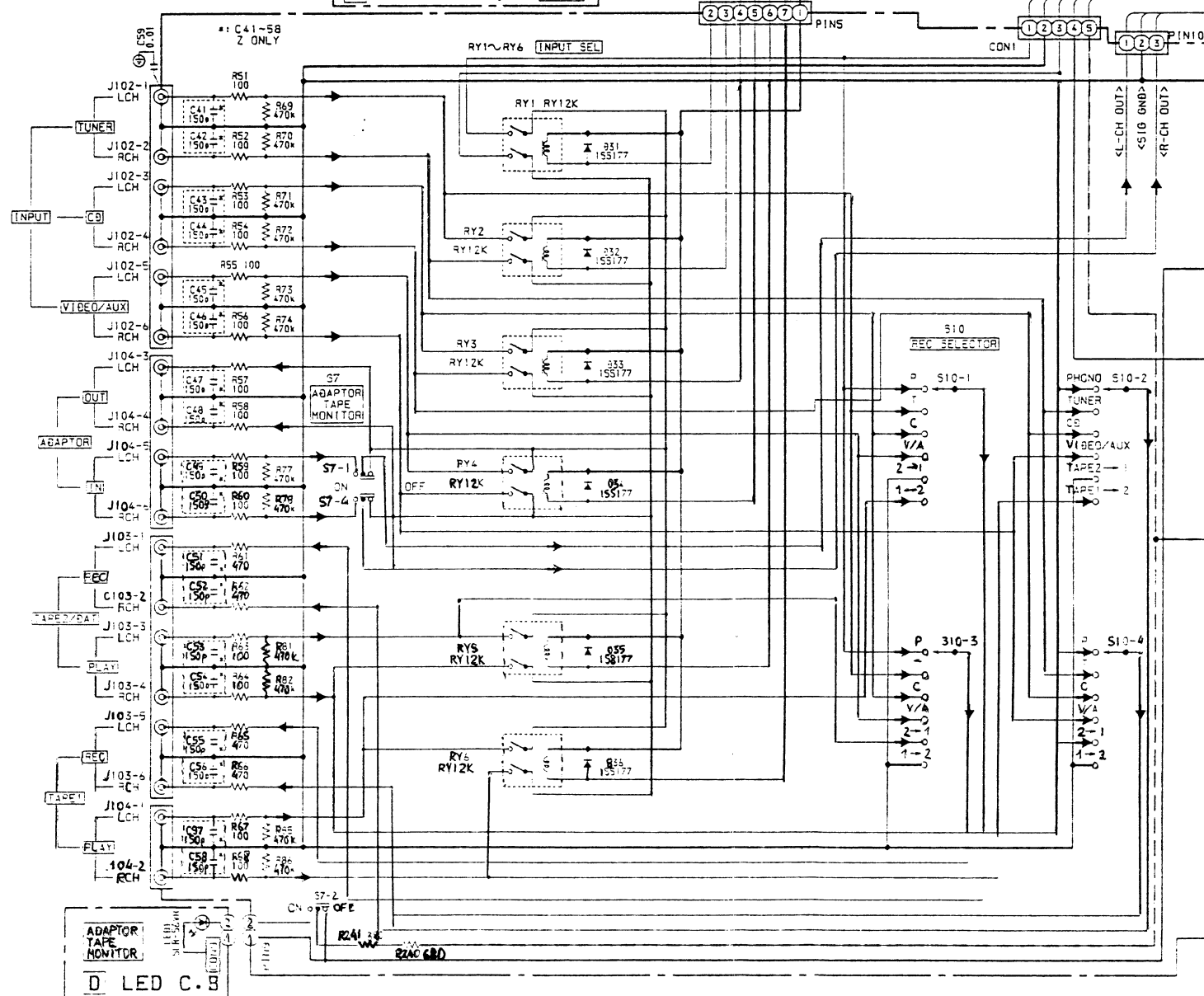
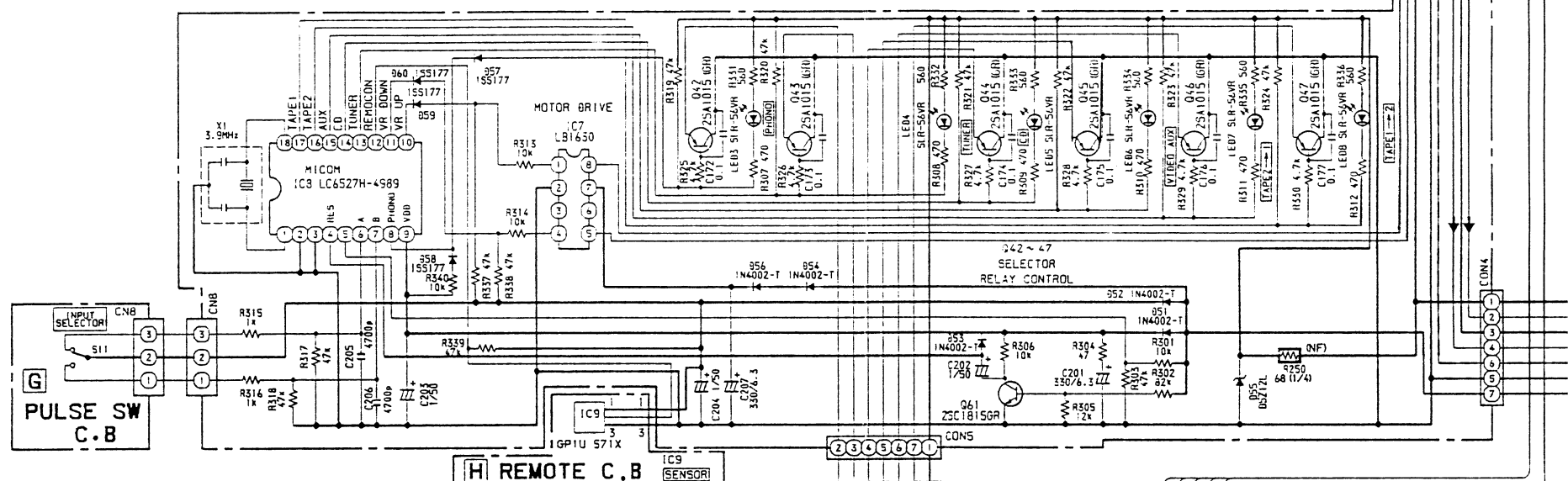
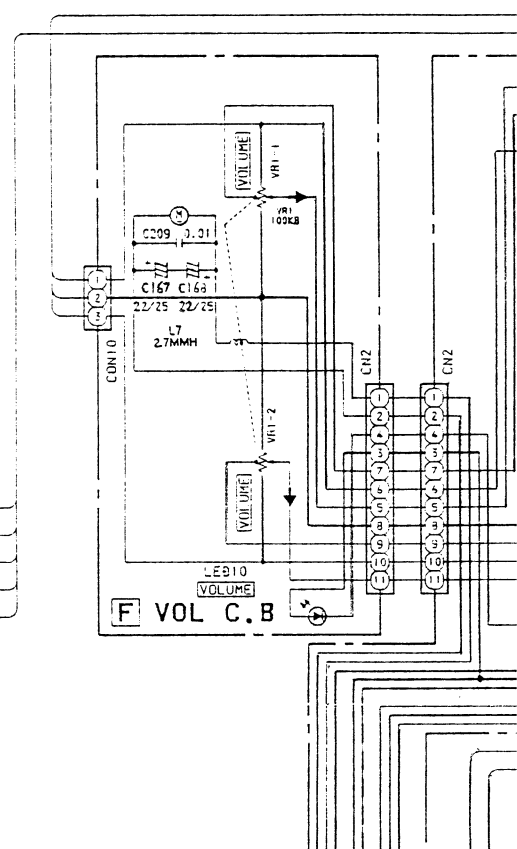
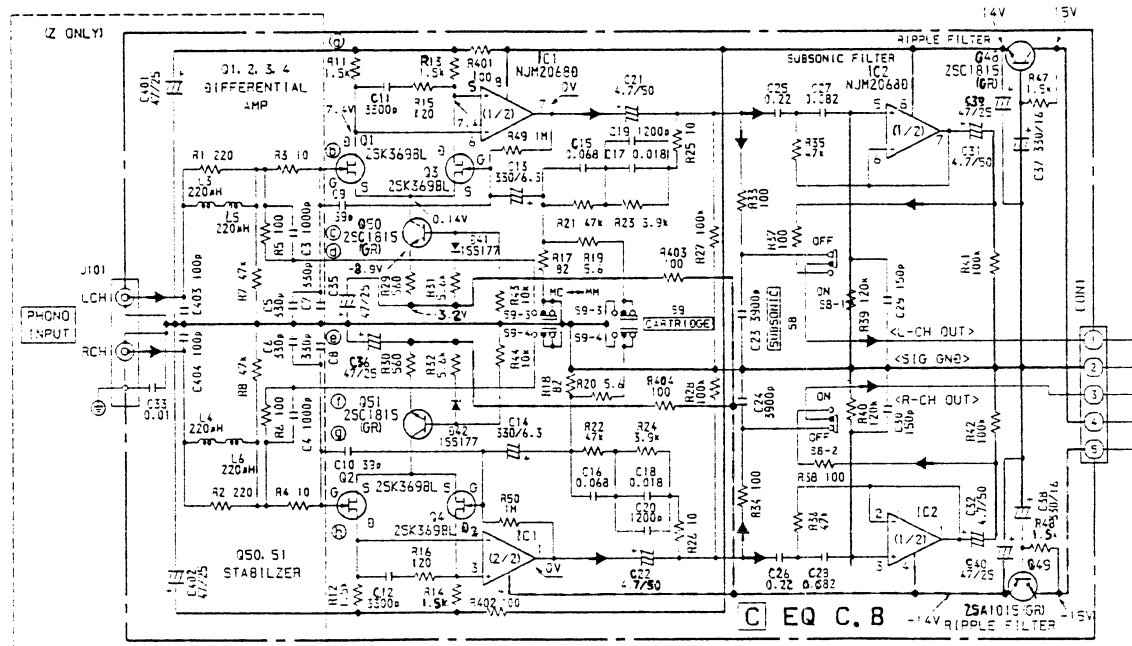
• Adjustment Locations : SFR1 (Lch)

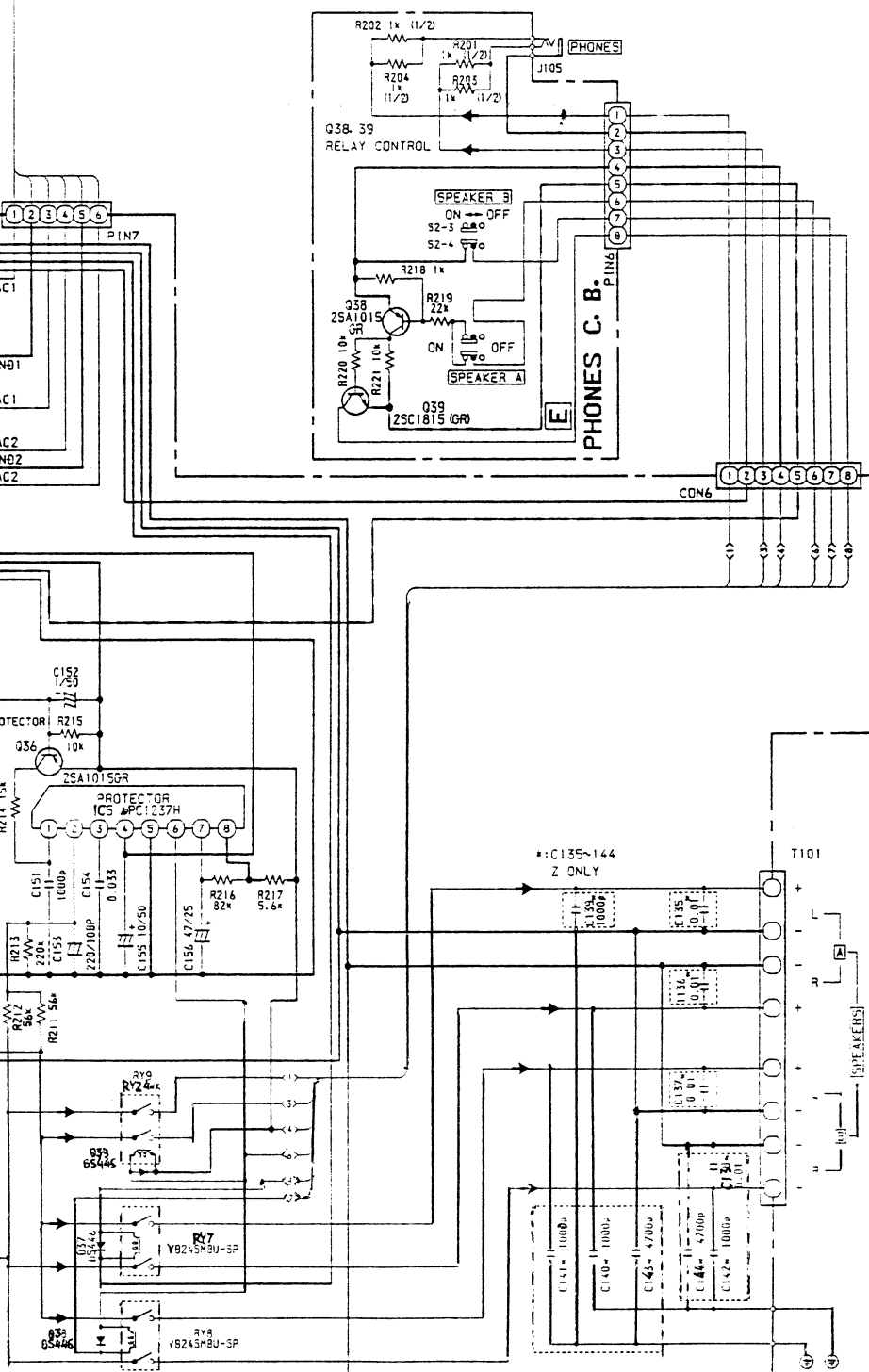
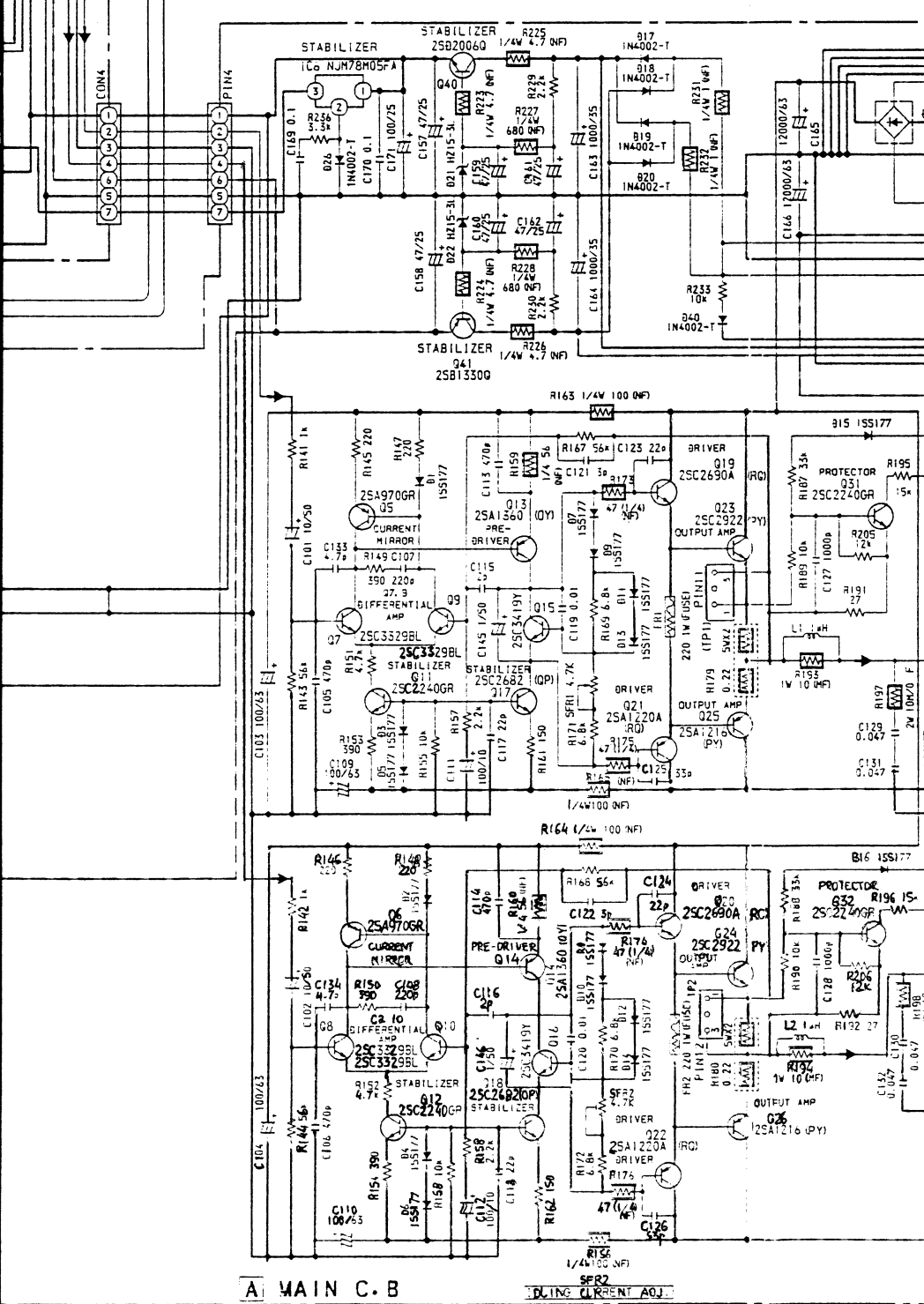
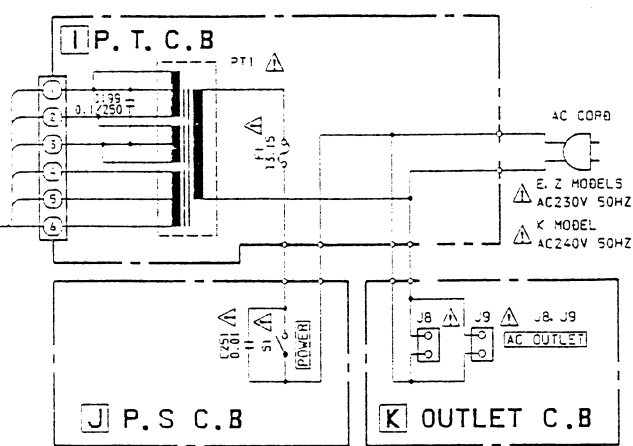
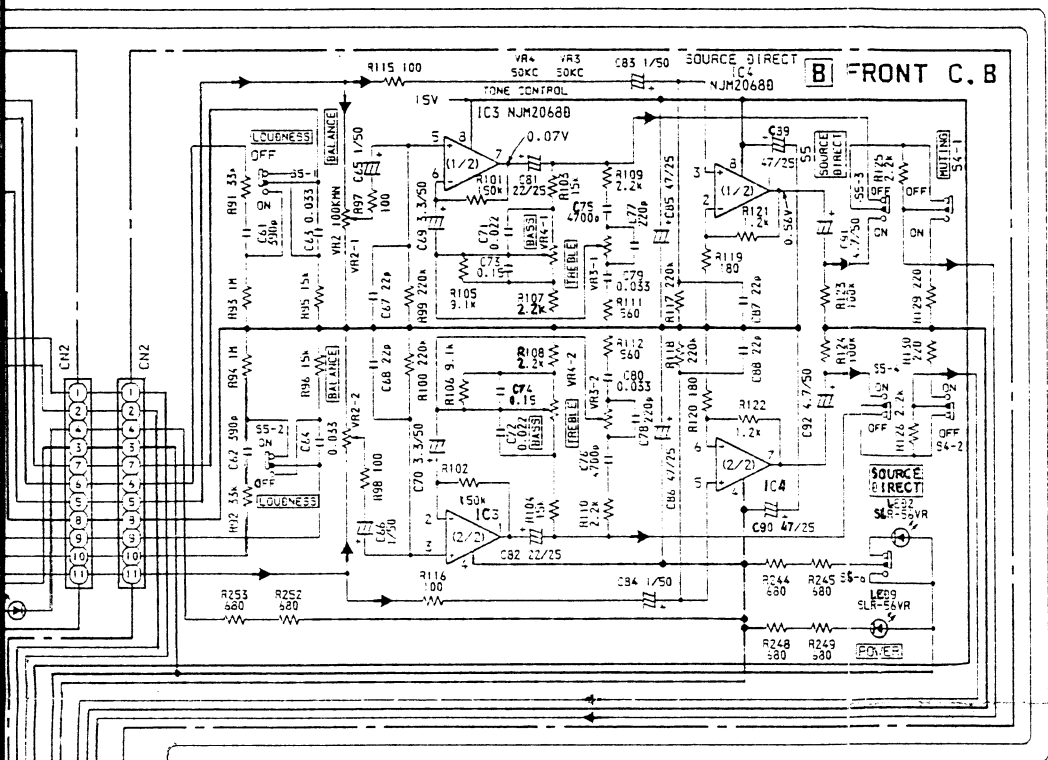
SFR2 (Rch)

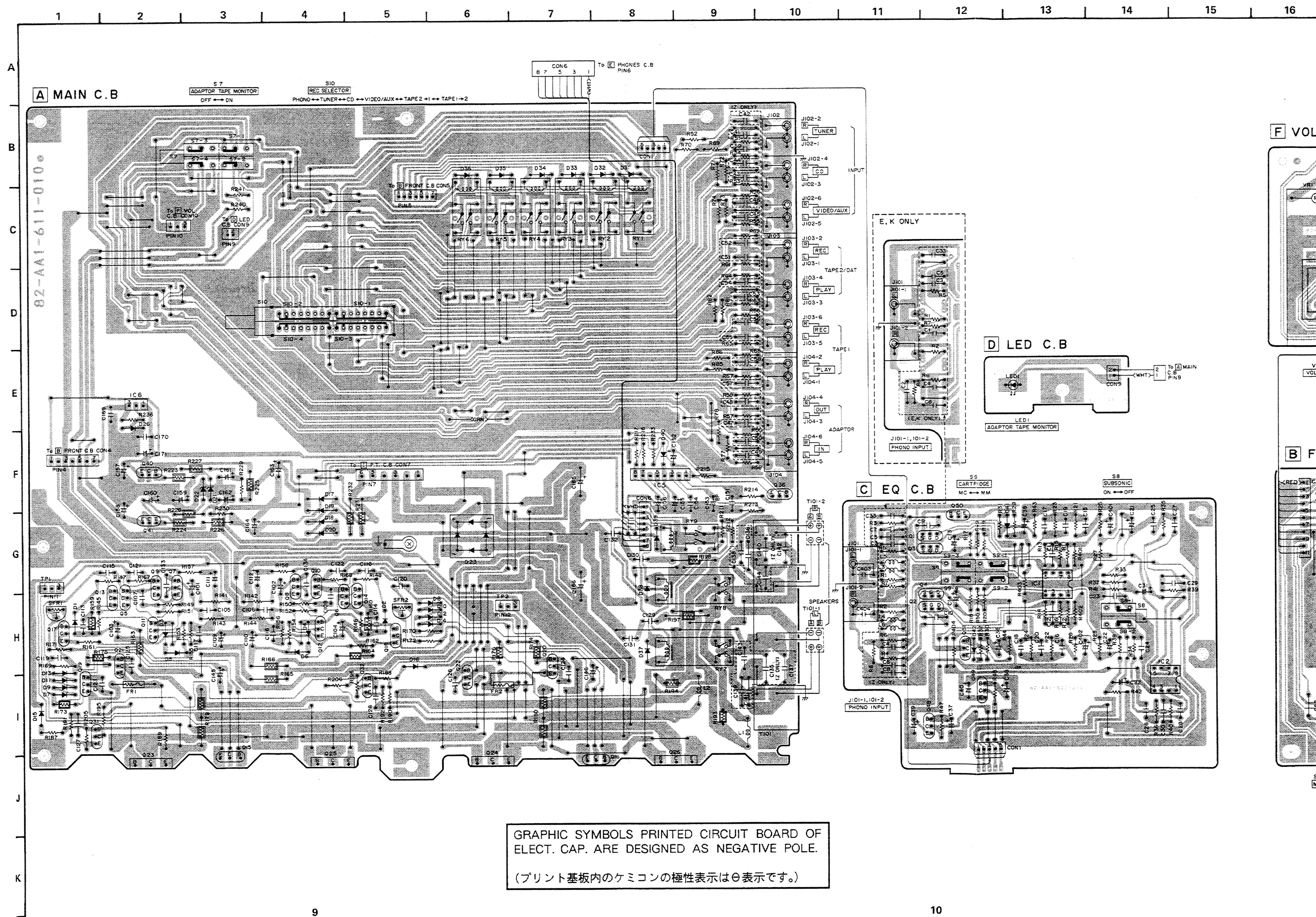
Method : Connect the voltmeter at TP1, TP2 (⊕ side : 1,

⊖ side : 3) and adjust so that the voltage is 3.0mV.

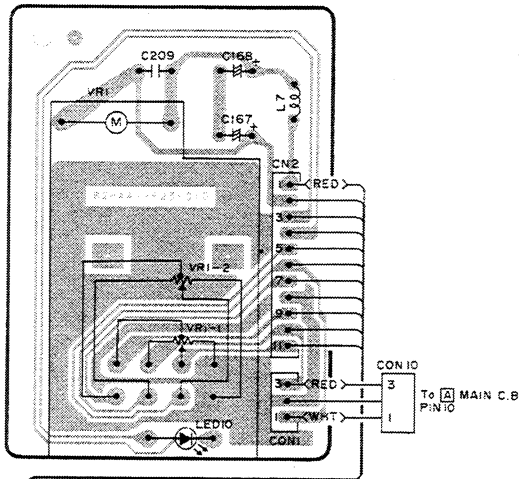
Description
STEM clock oscillator signal.
clock frequency is 4MHz.
TEST mode setting. Connected to VSS
connected to ground
STEM reset input
over on detection signal
CODER A signal input. (active : Hi)
CODER B signal input. (active : Hi)
MOCON signal input.
over supply. (connected to +5V)
VOLUME UP signal output. (active : Hi)
VOLUME DOWN signal output. (active : Hi)
LAMP, LED driver output. (active : Hi)
LAMP, LED driver output. (active : Hi)
LAMP, LED driver output. (active : Hi)
LAMP, LED driver output. (active : Hi)
LAMP, LED driver output. (active : Hi)
LAMP, LED driver output. (active : Hi)
STEM clock oscillator signal



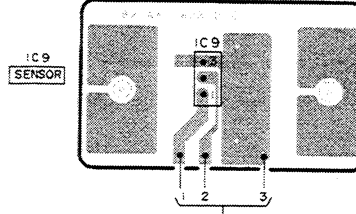




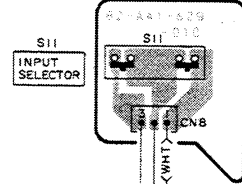
F VOL. C.B



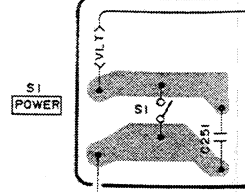
H REMOTE C.B



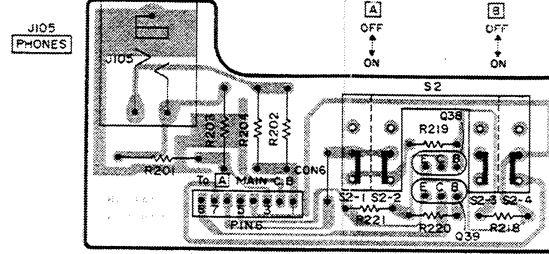
G PULSE SW C.B



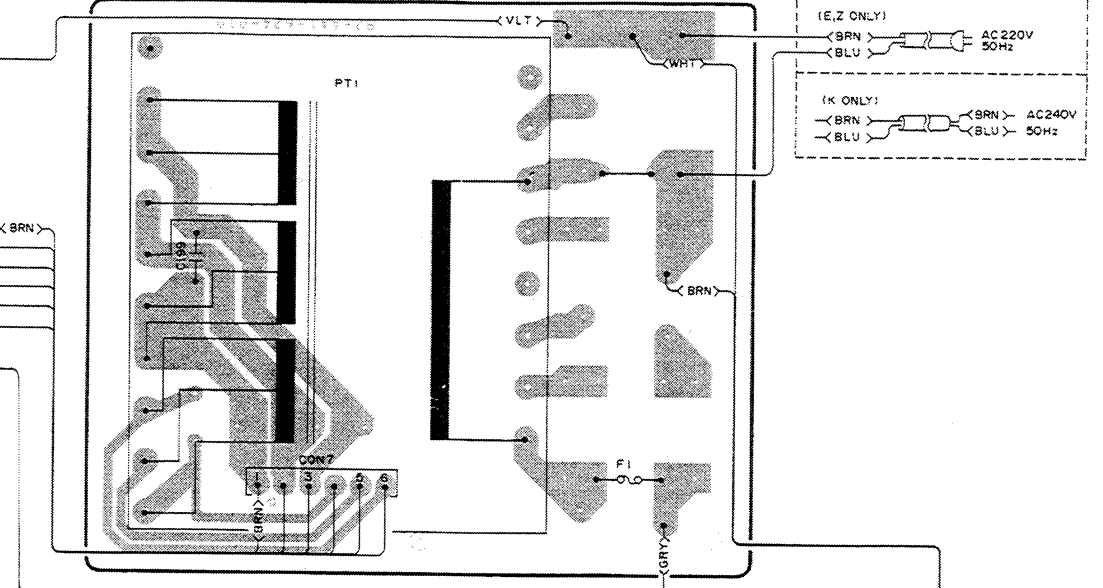
J P.S. C.B



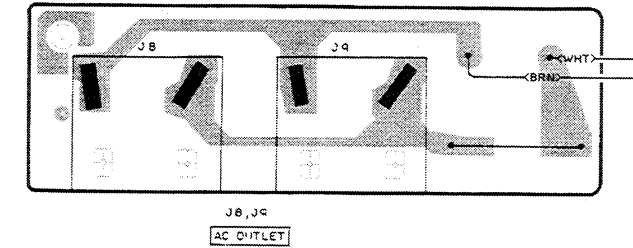
E PHONES C.B



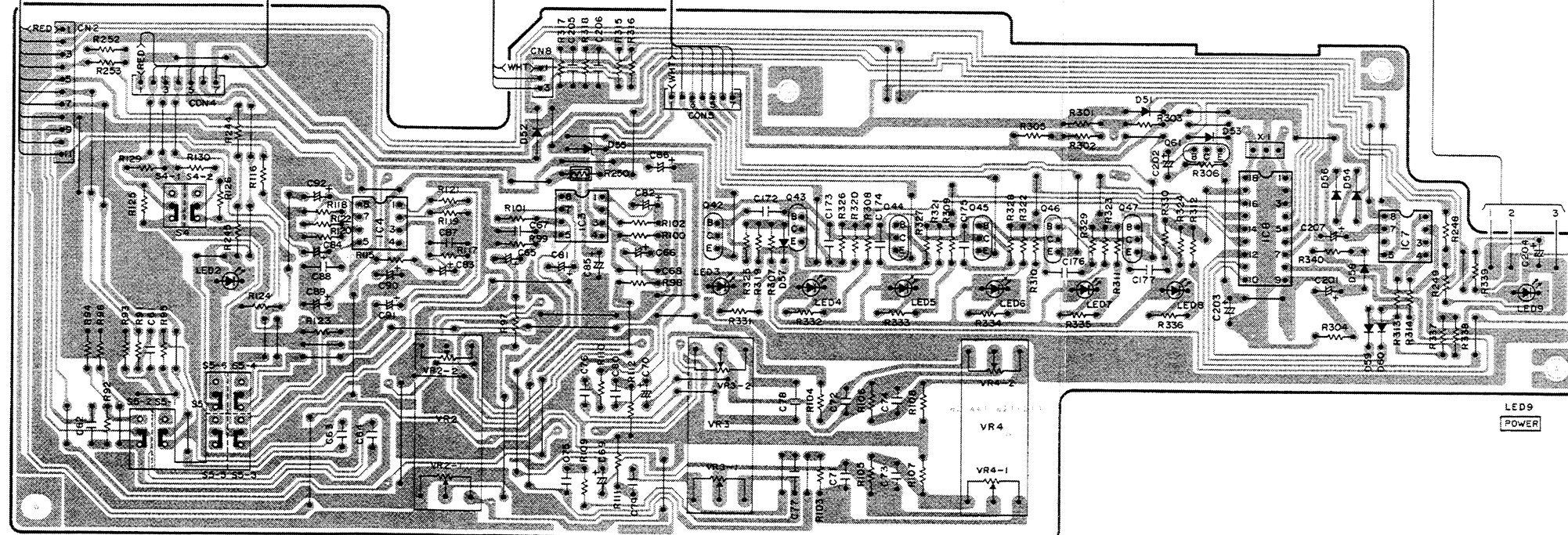
I P.T. C.B



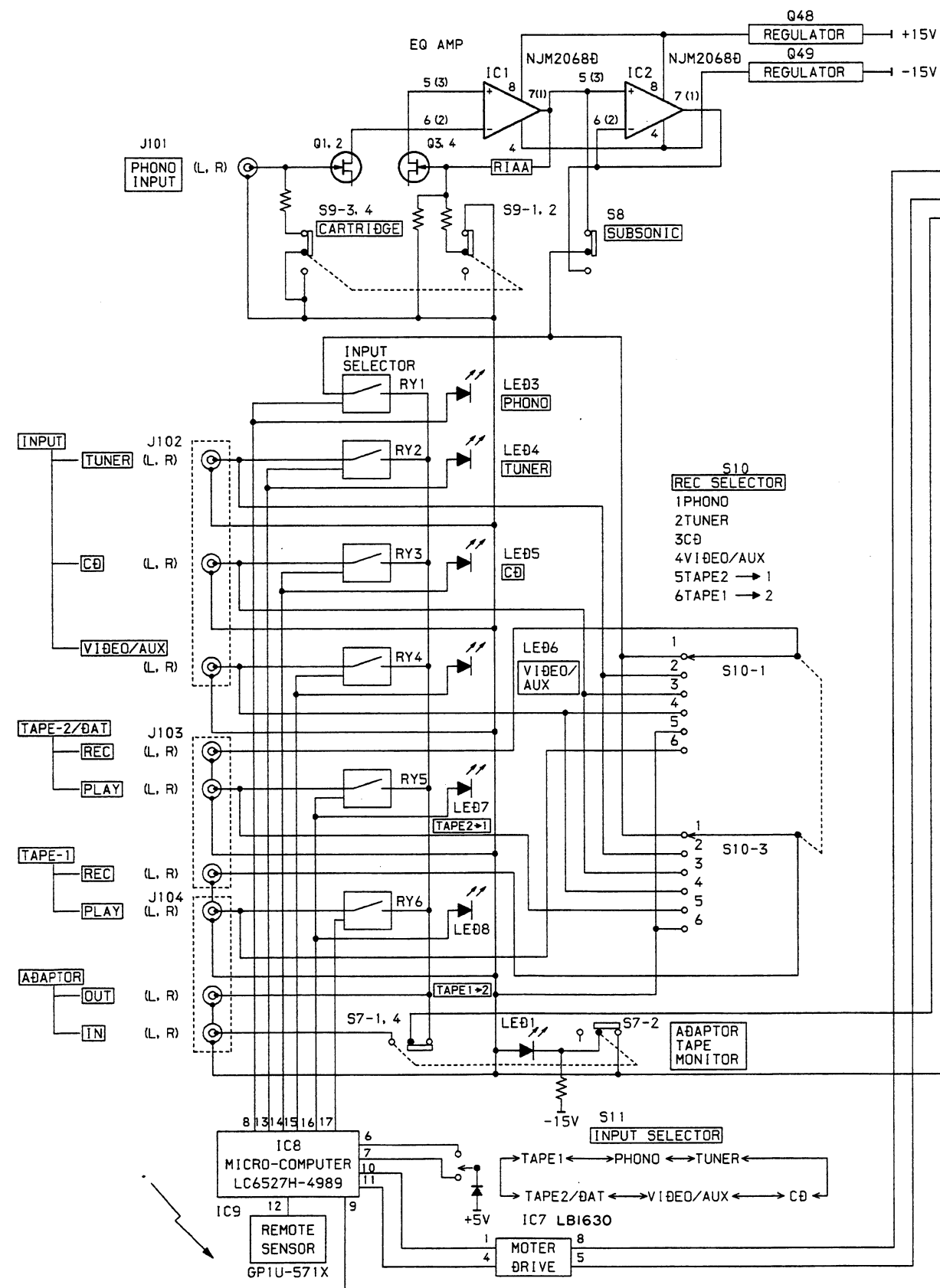
K OUTLET C.B



B FRONT C.B

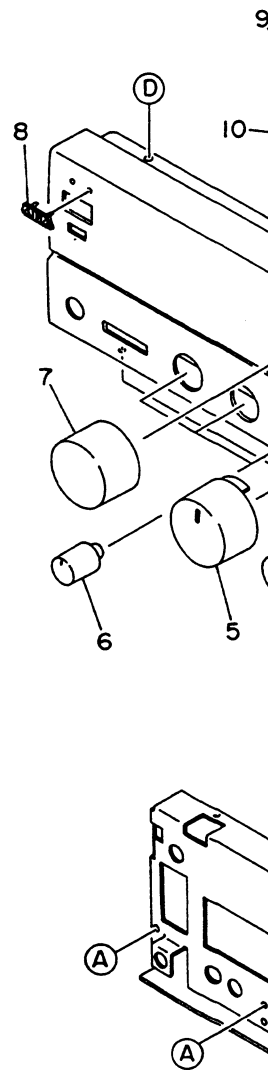
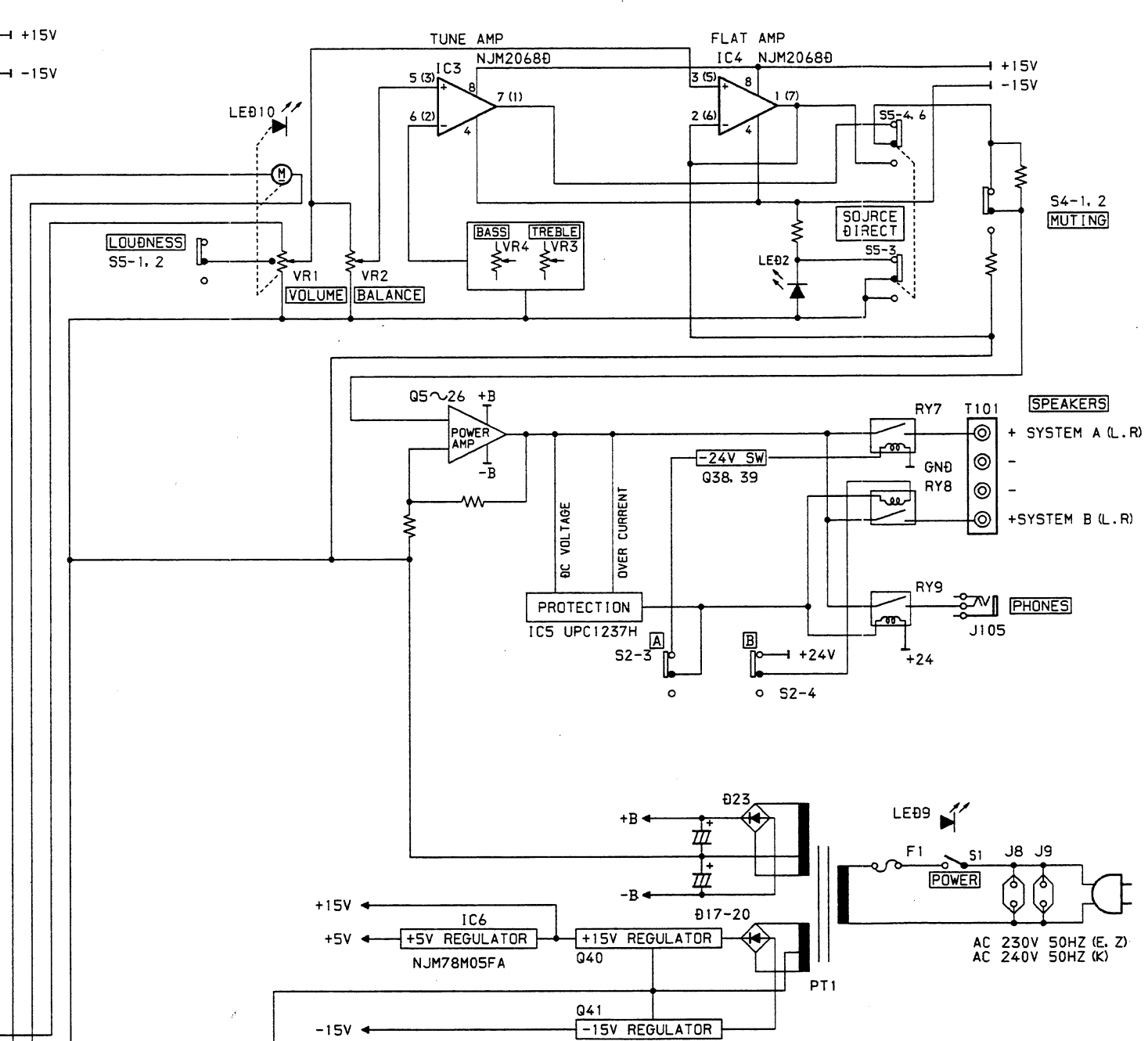


BLOCK DIAGRAM



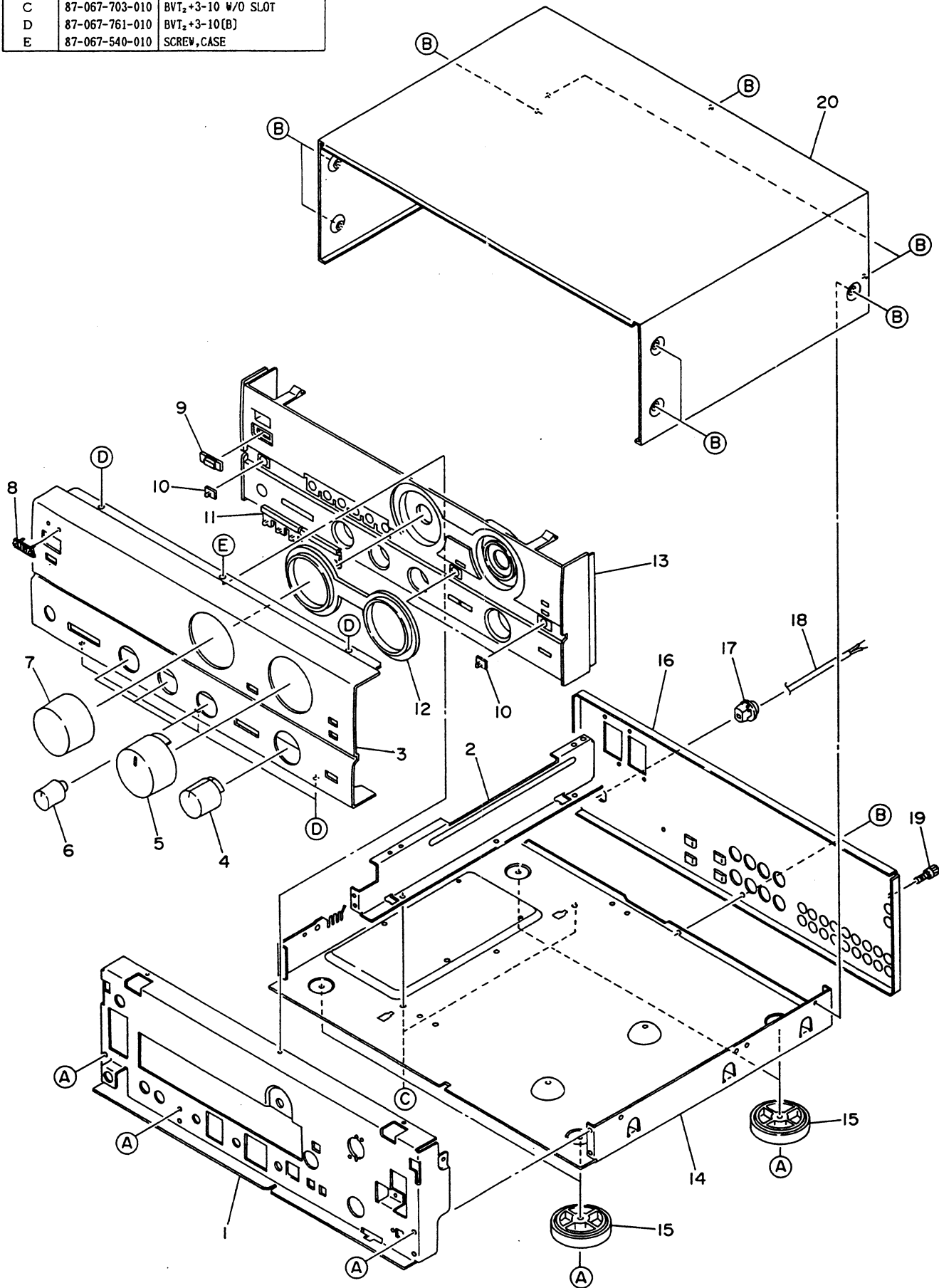
EXPLODED VIEW

REF.NO.	PART NO.	
A	87-067-689-010	BVT1
B	87-067-660-010	BVT2
C	87-067-703-010	BVT3
D	87-067-761-010	BVT4
E	87-067-540-010	SCR1



EXPLODED VIEW - 1

REF.NO.	PART NO.	DESCRIPTION
A	87-067-689-010	BVT+3-8
B	87-067-660-010	BVT+3-8 W/O SLOT(B)
C	87-067-703-010	BVT+3-10 W/O SLOT
D	87-067-761-010	BVT+3-10(B)
E	87-067-540-010	SCREW,CASE



MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1-1	---	CHASSIS, FRONT		1
	1-2	---	HOLDER, SIDE		1
	1-3	★ 82-AA1-004-010	PANEL, FRONT	*	1
	1-4	★ 82-AA1-012-010	KNOB REC SEL ASSY	*	1
	1-5	★ 82-AA1-009-010	KNOB VOLUME ASSY	*	1
	1-6	★ 82-AA1-010-019	KNOB, BALANCE	*	3
	1-7	★ 82-AA1-011-010	KNOB INPUT SEL ASSY	*	1
	1-8	★ 81-DS1-011-019	BADGE, AIWA N	*	1
	1-9	★ 82-AA1-020-019	WINDOW, RC	*	1
	1-10	★ 82-AA1-022-019	POINTER, 1P	*	3
	1-11	★ 82-AA1-017-019	POINTER, 6P	*	1
	1-12	★ 82-AA1-018-019	RING, VOLUME	*	1
	1-13	★ 82-AA1-001-010	CABINET, FRONT	*	1
	1-14	---	CHASSIS, MAIN		1
	1-15	★ 82-AA1-029-010	FOOT	*	4
	1-16	★ 82-AA1-006-019	PANEL, REAR (E)	*	1
	1-16	★ 82-AA1-007-019	PANEL, REAR (K)	*	1
	1-16	★ 82-AA1-008-019	PANEL, REAR (Z)	*	1
	1-17	★ 87-085-185-010	BUSHING, AC CORD		1
	1-18	★ 87-034-781-010	CORD, AC (E, Z)		1
	1-18	★ 87-034-592-010	CORD, AC (K)		1
	1-19	---	TERMINAL, EARTH		1
	1-20	★ 82-AA1-002-018	CABINET, STEEL	*	1

REF. NO.	PART NO.	DESCRIPTION
A	87-067-689-010	BVTT+3-8
B	87-067-660-010	BVT ₁ +3-8 W/O SLOT(B)
C	87-067-579-010	BVT ₁ +3-8 W/O SLOT
D	87-067-703-010	BVT ₁ +3-10 W/O SLOT
E	87-067-581-010	BVT ₁ +3-15 W/O SLOT
F	87-067-586-010	BVTT+4-8
G	87-751-096-410	VT ₂ +3-10

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■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
1		★ 82-AA1-901-018	INSTRUCTION BOOKLET, EX	※	1
2		★ 82-AA1-033-010	REMOTE CONTROL, RC-A950LE(E, Z)	※	1
3		★ 82-AA1-034-010	REMOTE CONTROL, RC-A950L(K)	※	1