

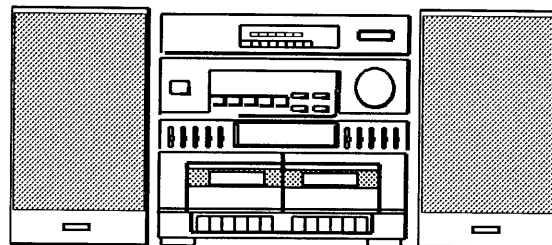
AIWA®

XS-71

CX-71

CDX-71

SERVICE MANUAL



STEREO SYSTEM

- BASIC TAPE MECHANISM : TN-521ZSW

- TYPE. H (XS-71), U (CDX-71)
E, K, Z (CX-71)

CENTER SYSTEM	CASSEIVER	SPEAKER	REMOTE CONTROLLER	TURNTABLE (OPTIONAL)	CD PLAYER
XS-71 (H type)	CX-71	SX-767	RC-T71	※2 PX-E70	※3 DX-M71 (OPTIONAL)
CX-71 (E, K, Z type)	CX-71	SX-71 ※1	RC-T71	※2 PX-E70	※3 DX-M71 (OPTIONAL)
CDX-71 (U type)	CX-71	SX-76 ※1	RC-T71	※2 PX-E80	※3 DX-M71

※1 CENTER SYSTEM does not have ※1.

※2 As to the service information of PX-E70/E80,
see the individual service manual of PX-E70/E80.

※3 As to the service information of DX-M71,
see the individual service manual of DX-M71.

AIWA Co., Ltd.
Tokyo Japan

Printed in Japan

SPECIFICATIONS

Receiver	CX-71H,U,E,K,Z
Power source	CX-71H AC 120 V/220 V/240 V (switchable), 50/60 Hz CX-71U AC 120 V, 60 Hz CX-71E, Z AC 220 V, 50 Hz CX-71K AC 240V, 50 Hz
Power consumption	CX-71H 105 W (System total 115 W) CX-71U 100 W (System total 110 W) CX-71E, K, Z 200 W (System total 210 W)
Power output	CX-71H 55 W+55 W (6 ohms+16 ohms total, EIAJ 10%) CX-71E, K, Z 30 W+30 W (6 ohms+16 ohms total, DIN 1%) 38 W+ 38 W (T.H.D. 10%) CX-71U 40 W+40 W (6 ohms+16 ohms total) FTC RULE 40 watts per channel. Min. RMS, from 60 Hz to 20 kHz, with no more than 0% distortion.
Frequency response	NORMAL tape: 40–12,500 Hz (Playback/Record) CrO ₂ tape: 40–14,000 Hz (H,U: Playback only, E,K,Z: Playback/Record) METAL tape: 40–16,000 Hz (Playback only)
Signal-to-noise ratio	58 dB (NORMAL tape, DOLBY NR ON, JIS-A)
Frequency ranges	CX-71H FM: 87.5–108 MHz AM: 531 (530)–1,602 (1,710) kHz CX-71U FM: 87.5–108 MHz AM: 530–1,710 kHz CX-71E,K,Z FM: 87.5–108 MHz MW: 522–1,611 kHz LW: 144–290 kHz
Antenna	FM: 75 ohms AM (MW/LW): Loop antenna
Wow & flutter	0.2% (WRMS)
Output terminals	SPEAKERS: 6 ohms+16 ohms PHONES: 8–32 ohms
Input terminals	PHONO: 400 mV/47 k ohms VCR/AUX: 180 mV–1 V/ 47 k ohms
Dimensions	CD: 440 mV/10 k ohms 360(W) × 335(H) × 332(D) mm
Weight	CX-71H: 7.7 kg/CX-71U: 7.4 kg/ CX-71E, K, Z: 6.8 kg

Speaker	SX-767H
Type	3-way Bass reflex type
Speaker	Woofer 220 mm cone type Tweeter 50 mm cone type Super tweeter 40 mm ceramic type
Impedance	6 ohms
Allowable maximum input	55 W
Dimensions	280(W) × 461(H) × 220(D) mm
Weight	4.6 kg

Speaker	SX-76U
Type	2-way Bass reflex type
Speaker	Woofer 220 mm cone type Tweeter 50 mm cone type
Impedance	6 ohms
Allowable maximum input	55 W
Dimensions	280(W) × 461(H) × 180(D) mm
Weight	4.4 kg

Speaker	SX-71E, K, Z
Type	2-way Bass reflex type
Speaker	Woofer 170 mm cone type Tweeter 50 mm cone type
Impedance	6 ohms
Allowable maximum input	40 W
Dimensions	255(W) × 430(H) × 170(D) mm
Weight	3.5 kg

• Design and specifications are subject to change without notice.

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- Under license from BBE Sound, Inc.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
===IC===					
	87-001-655-019	IC, TC74HC164P	C324	*87-018-121-019	CAP, CERA-SOL U 150P-50 B(E, K, Z)
	87-001-440-019	IC, BA15218N	C325	*87-010-402-019	CAP, ELECT 2. 2-50 SME
	87-020-981-019	IC, CX1102	C326	*87-010-402-019	CAP, ELECT 2. 2-50 SME
	87-001-942-019	IC, LA1265S	C327	*87-010-544-019	CAP, ELECT 0. 1-50
	80-MK4-638-010	IC, LC7230-8310	C328	*87-010-544-019	CAP, ELECT 0. 1-50
	87-020-758-019	IC, NJM2068 SD	C333	*87-018-126-019	CAP, CERA-SOL U 390P-50 BB
	87-027-235-019	IC, NJM4558D	C334	*87-018-126-019	CAP, CERA-SOL U 390P-50 BB
	87-020-966-019	IC, STK4142-MK2(E, K, Z)	C335	*87-010-260-019	CAP, ELECT 47-25 SME
	87-001-582-019	IC, STK4152-MK2(H, U)	C336	*87-010-384-019	CAP, ELECT 100-25 SME
	87-020-446-019	IC, TA7343AP	C337	*87-010-384-019	CAP, ELECT 100-25 SME
	87-027-666-019	IC, TC4052BP	C338	*87-010-406-019	CAP, ELECT 22-50 SME
	87-001-476-019	IC, TC9154AP	C340	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
	87-001-790-010	IC, UNIT, SBX1610-52(REMOTE SENSOR)	C341	*87-018-125-019	CAP, CERA-SOL U 330P-50 B
	87-001-883-010	IC, XRC5424B	C342	*87-018-125-019	CAP, CERA-SOL U 330P-50 B
			C345	*87-018-131-019	CAP, CERA-SOL U 1000P-50 B
			C346	*87-018-131-019	CAP, CERA-SOL U 1000P-50 B
===TRANSISTOR===			C347	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
	89-501-615-019	FET, 2SK161GR(H, U, E, K)	C348	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
	89-502-415-019	FET, 2SK241GR	C349	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	89-502-464-019	FET, 2SK246Y	C350	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	89-503-735-019	FET, 2SK373GR	C351	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	87-026-165-019	FET, 3SK73GR(Z)	C352	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	89-110-155-019	TRANSISTOR, 2SA1015GR	C353	*87-018-121-019	CAP, CERA-SOL U 150P-50 B
	89-109-521-019	TRANSISTOR, 2SA952K	C354	*87-018-121-019	CAP, CERA-SOL U 150P-50 B
	89-213-702-019	TRANSISTOR, 2SB1370E	C355	*87-018-129-019	CAP, CERA-SOL U 680P-50 B
	89-318-155-019	TRANSISTOR, 2SC1815GR	C356	*87-018-129-019	CAP, CERA-SOL U 680P-50 B
	89-318-154-019	TRANSISTOR, 2SC1815Y	C357	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	89-319-233-019	TRANSISTOR, 2SC1923 O	C358	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	89-320-011-019	TRANSISTOR, 2SC2001K	C359	*87-010-256-019	CAP, ELECT 0. 68-50
	89-309-456-019	TRANSISTOR, 2SC945LP	C360	*87-010-256-019	CAP, ELECT 0. 68-50
	89-417-613-019	TRANSISTOR, 2SD1761F	C361	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	89-420-052-019	TRANSISTOR, 2SD2005Q	C362	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	87-026-214-019	TRANSISTOR, DTA114YS	C363	*87-010-263-019	CAP, ELECT 100-10
	87-026-219-019	TRANSISTOR, DTA144ES	C364	*87-010-404-019	CAP, ELECT 4. 7-50 SME
	87-026-245-019	TRANSISTOR, DTC114ES	C365	*87-010-260-019	CAP, ELECT 47-25 SME
	87-026-215-019	TRANSISTOR, DTC114YS	C366	*87-010-263-019	CAP, ELECT 100-10
	87-026-369-019	TRANSISTOR, RN1204	C367	*87-010-733-019	CAP, ELECT 3300-42
	87-026-380-019	TRANSISTOR, RN2207	C368	*87-010-733-019	CAP, ELECT 3300-42
			C369	*87-010-453-019	CAP, ELECT 4700-25
			C370	*87-018-125-019	CAP, CERA-SOL U 330P-50 B
===DIODE===			C371	*87-010-402-019	CAP, ELECT 2. 2-50 SME
	87-020-465-019	DIODE, 1SS133	C372	*87-010-384-019	CAP, ELECT 100-25 SME
	87-020-144-019	DIODE, DBA40C	C373	*87-010-260-019	CAP, ELECT 47-25 SME
	87-020-123-019	DIODE, DS446-AT	C374	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
	87-001-845-019	DIODE, RS203L	C375	*87-010-263-019	CAP, ELECT 100-10
	87-027-556-019	DIODE, ZENER HZ11B3	C376	*87-010-101-019	CAP, ELECT 220-16 SME
	87-027-393-019	DIODE, ZENER HZ4C2	C377	*87-010-405-019	CAP, ELECT 10-50 SME
	87-027-475-019	DIODE, ZENER HZ6B1	C378	*87-010-382-019	CAP, ELECT 22-25 SME
	87-027-332-019	DIODE, ZENER HZ6B1L	C379	*87-010-263-019	CAP, ELECT 100-10
	87-027-606-019	DIODE, ZENER HZ7C2L	C380	*87-010-384-019	CAP, ELECT 100-25 SME
			C381	*87-010-385-019	CAP, ELECT 220-25
			C382	*87-010-405-019	CAP, ELECT 10-50 SME
===MAIN CIRCUIT BOARD SECTION===			C383	*87-018-121-019	CAP, CERA-SOL U 150P-50 B
△	87-033-147-019	CLAMP, FUSE	C384	*87-018-121-019	CAP, CERA-SOL U 150P-50 B
C301	*87-018-127-019	CAP, CERA-SOL U 470P-50 B	C385	*87-010-404-019	CAP, ELECT 4. 7-50 SME
C302	*87-018-127-019	CAP, CERA-SOL U 470P-50 B	C386	*87-010-404-019	CAP, ELECT 4. 7-50 SME
C307	*87-010-400-019	CAP, ELECT 0. 47-50 SME	C387	*87-010-382-019	CAP, ELECT 22-25 SME
C308	*87-010-400-019	CAP, ELECT 0. 47-50 SME	C388	*87-010-382-019	CAP, ELECT 22-25 SME
C309	*87-010-260-019	CAP, ELECT 47-25 SME	C389	*87-010-408-019	CAP, ELECT 47-50 SME
C310	*87-010-371-019	CAP, ELECT 470-6. 3	C390	*87-010-408-019	CAP, ELECT 47-50 SME
C311	*87-018-127-019	CAP, CERA-SOL U 470P-50 B	C391	*87-010-405-019	CAP, ELECT 10-50 SME
C312	*87-018-127-019	CAP, CERA-SOL U 470P-50 B	C392	*87-010-404-019	CAP, ELECT 4. 7-50 SME
C317	*87-010-546-019	CAP, ELECT 0. 33-50 SME	C401	*87-018-115-019	CAP, CERA-SOL U 47P(Z)
C318	*87-010-546-019	CAP, ELECT 0. 33-50 SME	C402	*87-018-115-019	CAP, CERA-SOL U 47P(Z)
C319	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y	C403	*87-018-115-019	CAP, CERA-SOL U 47P(Z)
C320	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y	C404	*87-018-115-019	CAP, CERA-SOL U 47P(Z)
C321	*87-018-131-019	CAP, CERA-SOL U 1000P-50 B	C405	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y(Z)
C322	*87-010-371-019	CAP, ELECT 470-6. 3	C406	*87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y(Z)
C323	*87-018-121-019	CAP, CERA-SOL U 150P-50 B(E, K, Z)			

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
C407	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)	C615	*87-010-400-019	CAP, ELECT 0.47-50 SME
C408	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)	C616	*87-010-400-019	CAP, ELECT 0.47-50 SME
C409	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)	C619	*87-018-118-019	CAP, CERA-SOL U 82P-50 B
C411	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(E, K, Z)	C620	*87-018-118-019	CAP, CERA-SOL U 82P-50 B
C412	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	C623	*87-010-400-019	CAP, ELECT 0.47-50 SME
C413	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C624	*87-015-694-019	CAP, ELECT 0.47-50 7L
C414	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C625	*87-010-404-019	CAP, ELECT 4.7-50 SME
C415	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C626	*87-015-688-019	CAP, ELECT 4.7-35 7L
C416	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C627	*87-010-405-019	CAP, ELECT 10-50 SME
C417	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C629	*87-010-404-019	CAP, ELECT 4.7-50 SME
C418	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C630	*87-010-404-019	CAP, ELECT 4.7-50 SME
C419	*87-018-131-019	CAP, CERA-SOL U 1000P(Z)	C631	*87-018-133-019	CAP, CERA-SOL U 4700P-16 X
C420	*87-018-131-019	CAP, CERA-SOL U 1000P(Z)	C632	*87-018-133-019	CAP, CERA-SOL U 4700P-16 X
C421	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)	C649	*87-010-404-019	CAP, ELECT 4.7-50 SME
C422	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)	C650	*87-010-404-019	CAP, ELECT 4.7-50 SME
C423	*87-018-132-019	CAP, CERA-SOL U 2200P(Z)	C651	*87-010-401-019	CAP, ELECT 1-50 SME
C424	*87-018-132-019	CAP, CERA-SOL U 2200P(Z)	C652	*87-015-695-019	CAP, ELECT 1-50 7L
C425	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C653	*87-015-695-019	CAP, ELECT 1-50 7L
C426	*87-018-119-019	CAP, CERA-SOL U 100P(Z)	C654	*87-015-695-019	CAP, ELECT 1-50 7L
C427	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)	C656	*87-015-699-019	CAP, ELECT 10-50 7L
C431	*87-018-104-019	CAP, CERA-SOL U 10P-50 SL	C657	*87-010-260-019	CAP, ELECT 47-25 SME
C432	*87-018-104-019	CAP, CERA-SOL U 10P-50 SL	C659	*87-018-127-019	CAP, CERA-SOL U 470P-50 B
C433	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	C660	*87-018-127-019	CAP, CERA-SOL U 470P-50 B
△F1	87-035-224-019	FUSE T1. 6A(H, E, K)	C661	*87-010-101-019	CAP, ELECT 220-16 SME
△F1	87-035-401-019	FUSE UL 250V 1.6A(U)	C663	*87-018-127-019	CAP, CERA-SOL U 470P-50 B
△F1	87-035-222-019	FUSE 1A T(Z)	C664	*87-018-127-019	CAP, CERA-SOL U 470P-50 B
△FR301	87-029-089-019	RES, FUSE 4.7-1/4W	C671	*87-018-131-019	CAP, CERA-SOL U 1000P-50 B(H, E, K, Z)
△FR302	87-029-105-019	RES, FUSE 10-1/2W	C672	*87-010-544-019	CAP, ELECT 0.1-50(H, E, K, Z)
△FR303	87-029-019-019	RES, FUSE 2.2-1/2W	C673	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(H, E, K, Z)
△FR304	87-029-102-019	RES, FUSE 47-1/4W(E, K, Z)	C674	*87-015-692-019	CAP, ELECT 0.22-50 7L(H, E, K, Z)
△FR305	87-029-089-019	RES, FUSE 4.7-1/4W(E, K, Z)	C675	*87-018-201-019	CAP, CERA-SOL U 5600P-16 X(H, E, K, Z)
J1	*87-049-868-019	JACK, PIN 4P(VCR/AUX)(PHONO)	C676	*87-015-695-019	CAP, ELECT 1-50 7L(H, E, K, Z)
J2	87-009-079-019	JACK, 6.3-W/S(PHONES)	C677	*87-010-404-019	CAP, ELECT 4.7-50 SME(H, E, K, Z)
J3	*87-033-205-019	TERMINAL, SP-4P(SPEAKERS)	C678	*87-010-380-019	CAP, ELECT 47-16 SME
J4	*87-049-851-019	JACK, PIN 2P(SURROUND SPEAKERS)	C702	*87-015-688-019	CAP, ELECT 4.7-35 7L
L301	*87-003-128-019	COIL, 5.6MMH	C703	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
L302	*87-003-128-019	COIL, 5.6MMH	C704	*87-010-384-019	CAP, ELECT 100-25 SME
L303	*87-003-128-019	COIL, 5.6MMH(E, K, Z)	C705	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
L304	*87-003-128-019	COIL, 5.6MMH(E, K, Z)	C706	*87-018-209-019	CAP, CERA-SOL U 0.1-50 F
L307	*81-794-661-019	COIL, OSC	C707	*87-010-371-019	CAP, ELECT 470-6.3
R485	87-022-050-019	RES, MF 0.22-1WJ	C708	*87-015-680-019	CAP, ELECT 47-10 7L
R486	87-022-050-019	RES, MF 0.22-1WJ	C709	*87-015-676-019	CAP, ELECT 47-6.3 7L
R502	87-022-184-019	RES, MF 0.33-1W	C710	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
R503	87-022-184-019	RES, MF 0.33-1W	L701	*87-005-239-019	COIL, 100UH
RY1	87-045-285-010	RELAY, VB12MB	LCD701	80-MK4-635-019	LCD, BU5117EZ(FREQUENCY/TIMER /CLOCK)
SFR301	*87-024-167-019	SFR, 470	LED601	87-001-124-019	LED SLZ 381C-02-T1(BBE)
SFR302	*87-024-167-019	SFR, 470	LED602	87-001-124-019	LED SLZ 381C-02-T1(BBE)
SFR303	*87-024-171-019	SFR, 4.7K	LED701	87-001-124-019	LED SLZ 381C-02-T1(VCR/AUX)
SFR304	*87-024-171-019	SFR, 4.7K	LED702	87-001-124-019	LED SLZ 381C-02-T1(CD)
SFR305	*87-024-174-019	SFR, 33K	LED703	87-001-124-019	LED SLZ 381C-02-T1(PHONO)
SFR306	*87-024-174-019	SFR, 33K	LED704	87-001-124-019	LED SLZ 381C-02-T1(TUNER)
SFR307	*87-021-864-019	SFR, 10K	LED705	87-001-124-019	LED SLZ 381C-02-T1(TAPE)
SFR308	*87-021-864-019	SFR, 10K	LED706	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
SFR309	*87-021-801-019	SFR, 10K	LED707	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
SFR311	*87-024-167-019	SFR, 470	LED708	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
SFR312	*87-024-167-019	SFR, 470	LED709	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
===CONTROL CIRCUIT BOARD SECTION===			LED710	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
C601	*87-010-404-019	CAP, ELECT 4.7-50 SME	LED711	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
C602	*87-010-404-019	CAP, ELECT 4.7-50 SME	LED712	87-001-123-019	LED SLZ 981C-02T1(VOLUME INDICATOR)
C603	*87-010-401-019	CAP, ELECT 1-50 SME			
C604	*87-010-401-019	CAP, ELECT 1-50 SME			
C607	*87-015-695-019	CAP, ELECT 1-50 7L			
C608	*87-015-695-019	CAP, ELECT 1-50 7L			
C611	*87-010-404-019	CAP, ELECT 4.7-50 SME			
C612	*87-010-404-019	CAP, ELECT 4.7-50 SME			
C613	*87-010-400-019	CAP, ELECT 0.47-50 SME			
C614	*87-010-400-019	CAP, ELECT 0.47-50 SME			

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
SW601	87-036-175-019	PUSH SW(BBE)	C117	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(Z)
SW602	87-036-175-019	PUSH SW(DOLBY NR/S-DUBBING)	C118	*87-018-105-019	CAP, CERA-SOL U 12P(Z)
SW603	87-036-175-019	PUSH SW(TAPE)	C131	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
SW701	87-036-142-019	TACT SW(STANDBY)	C132	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(H, U, E, K)
SW702	87-036-142-019	TACT SW(SLEEP)	C133	*87-010-401-019	CAP, ELECT 1-50 SME
SW703	87-036-142-019	TACT SW(DISPLAY)	C134	*87-010-382-019	CAP, ELECT 22-25 SME
SW704	87-036-142-019	TACT SW(FM MODE)	C135	*87-018-125-019	CAP, CERA-SOL 330P-50 B
SW705	80-MK4-640-019	ROTARY SW(VOLUME)	C136	*87-010-402-019	CAP, ELECT 2.2-50 SME
SW707	87-036-142-019	TACT SW(VCR/AUX)	C137	*87-010-402-019	CAP, ELECT 2.2-50 SME
SW708	87-036-142-019	TACT SW(CD)	C139	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
SW709	87-036-142-019	TACT SW(PHONO)	C140	*87-010-405-019	CAP, ELECT 10-50 SME
SW710	87-036-142-019	TACT SW(TUNER)	C141	*87-010-544-019	CAP, ELECT 0.1-50
SW711	87-036-142-019	TACT SW(TAPE)	C142	*87-010-403-019	CAP, ELECT 3.3-50 SME
SW712	87-036-142-019	TACT SW(UP)	C143	*87-010-404-019	CAP, ELECT 4.7-50 SME
SW713	87-036-142-019	TACT SW(DOWN)	C144	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
SW714	87-036-142-019	TACT SW(BAND SELECTOR)	C145	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
SW715	87-036-142-019	TACT SW(SET)	C146	*87-010-401-019	CAP, ELECT 1-50 SME
SW716	87-036-142-019	TACT SW(1)	C147	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
SW717	87-036-142-019	TACT SW(2)	C148	*87-010-402-019	CAP, ELECT 2.2-50 SME(Z)
SW718	87-036-142-019	TACT SW(3)	C149	*87-010-402-019	CAP, ELECT 2.2-50 SME(Z)
SW719	87-036-142-019	TACT SW(4)	C151	*87-010-401-019	CAP, ELECT 1-50 SME
SW720	87-036-142-019	TACT SW(5)	C152	*87-010-403-019	CAP, ELECT 3.3-50 SME
SW721	87-036-142-019	TACT SW(6)	C153	*87-014-057-019	CAP, PP 1000P-100 J
SW722	87-036-142-019	TACT SW(7)	C154	*87-010-405-019	CAP, ELECT 10-50 SME
SW723	87-036-142-019	TACT SW(8)	C155	*87-010-248-019	CAP, ELECT 220-10 SME
SW724	87-036-142-019	TACT SW(POWER)	C158	*87-010-402-019	CAP, ELECT 2.2-50 SME
TC701	*87-011-224-019	CAP, TRIMMER 30P	C159	*87-010-402-019	CAP, ELECT 2.2-50 SME
VR601	80-MK3-610-019	VR, SLIDE 20KB(GEQ 10kHz)	C160	*87-018-195-019	CAP, CERA-SOL U 1200P-16 X
VR602	80-MK3-610-019	VR, SLIDE 20KB(GEQ 10kHz)	C161	*87-018-195-019	CAP, CERA-SOL U 1200P-16 X
VR603	80-MK3-610-019	VR, SLIDE 20KB(GEQ 3.5kHz)	C162	*87-018-199-019	CAP, CERA-SOL U 3300P-16 X
VR604	80-MK3-610-019	VR, SLIDE 20KB(GEQ 3.5kHz)	C163	*87-018-199-019	CAP, CERA-SOL U 3300P-16 X
VR605	80-MK3-610-019	VR, SLIDE 20KB(GEQ 1kHz)	C171	*87-010-263-019	CAP, ELECT 100-10
VR606	80-MK3-610-019	VR, SLIDE 20KB(GEQ 1kHz)	C172	*87-010-374-019	CAP, ELECT 47-10
VR607	80-MK3-610-019	VR, SLIDE 20KB(GEQ 350Hz)	C181	*87-010-544-019	CAP, ELECT 0.1-50
VR608	80-MK3-610-019	VR, SLIDE 20KB(GEQ 350Hz)	C182	*87-014-050-019	CAP, PP 510P-100 J(H, U)
VR609	80-MK3-610-019	VR, SLIDE 20KB(GEQ 70Hz)	C182	*87-014-049-019	CAP, PP 470P(E, K, Z)
VR610	80-MK3-610-019	VR, SLIDE 20KB(GEQ 70Hz)	C183	*87-018-110-019	CAP, CERA-SOL U 24P-50 SL
VR611	80-MK4-628-019	VR, 10KB(BBE)	C184	*87-018-121-019	CAP, CERA-SOL U 150P-50 B(E, K, Z)
VR612	83-317-614-019	VR, 20KA(MIXING PLAY)(H, E, K, Z)	C185	*87-014-050-019	CAP, PP 510P(E, K, Z)
X701	*87-030-206-019	RESONATER, CRYSTAL 4.5MHZ, AT-51	C186	*87-010-405-019	CAP, ELECT 10-50 SME(E, K, Z)
===TUNER CIRCUIT BOARD SECTION===			C187	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(E, K, Z)
ANT201	87-033-214-019	ANT TERMINAL 4P<JT> (ANTENNA)(H, U)	C188	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(E, K, Z)
ANT201	81-631-646-019	ANT TERMINAL 2P PAL (ANTENNA) (E, K, Z)	C201	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
ANT202	81-754-629-019	CONNECTOR XH M 2P(MW/LW LOOP) (E, K)	C202	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C101	*87-018-100-019	CAP, CERA-SOL U 4.7P-50 SL (H, U, E, K)	C203	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C101	*87-018-104-019	CAP, CERA-SOL U 10P-50 SL	C204	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(E, K, Z)
C102	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	CF101	*87-008-261-019	FILTER, SFE10. 7MA5-A(H, U, E, K)
C103	*87-018-102-019	CAP, CERA-SOL U 6.8P-50 SL(H, U, E, K)	CF101	*82-799-621-019	CF MS2-A(Z)
C103	*87-018-105-019	CAP, CERA-SOL U 150P-50B(Z)	CF102	*87-008-261-019	FILTER, SFE10. 7MA5-A
C104	*87-018-097-019	CAP, CERA-SOL U 2.2P-50 SL	CF103	*87-008-261-019	FILTER, SFE10. 7MA5-A(Z)
C105	*87-018-100-019	CAP, CERA-SOL U 4.7P-50 SL(H, U, E, K)	CF104	*87-030-105-010	FILTER, BPMB6A(Z)
C105	*87-018-121-019	CAP, CERA-SOL U 150P-50 B(Z)	CF131	*82-794-670-019	FILTER, BFU 450C4N(H, U, E, K)
C106	*87-018-096-019	CAP, CERA-SOL U 1P-50 SL(H, U, E, K)	CF132	*87-008-452-019	FILTER, CFAZ-450
C107	*87-018-119-019	CAP, CERA-SOL U 100P-50 B	D101	87-027-900-019	VARI-CAP, 1SV147
C108	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	D103	87-027-900-019	VARI-CAP, 1SV147
C109	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	D104	87-027-900-019	VARI-CAP, 1SV147
C110	*87-010-374-019	CAP, ELECT 47-10	D105	87-027-900-019	VARI-CAP, 1SV147(Z)
C111	*87-010-401-019	CAP, ELECT 1-50 SME	D181	81-754-634-019	VARI-CAP, KV1260
C112	*87-018-116-019	CAP, CERA-SOL U 56P-50 SL	△FR171	87-029-090-019	RES, FUSE 22-1/4W
C113	*87-018-107-019	CAP, CERA-SOL U 18P-50 SL	L101	*87-006-199-019	COIL, ANT FM 3/4T, L5(H, U, E, K)
C114	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	L101	*81-749-714-019	COIL, ANT 3/4T(Z)
C115	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y	L102	*87-006-198-019	COIL, ANT FM 2-3/4TS, L5(H, U, E, K)
C116	*87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(H, U, E, K)	L102	*81-794-717-019	COIL, ANT 2-3/4T(Z)
C116	*87-018-100-019	CAP, CERA-SOL U 4.7P-50 SL(Z)	L103	*87-006-200-019	COIL, RF FM 3-1/2T, L5(H, U, E, K)
			L103	*82-191-627-019	COIL, ANT 2 FM(Z)
			L104	*87-006-201-019	COIL, RF FM3-1/2TS, L5(H, U, E, K)
			L104	*82-702-638-019	COIL, FM(Z)
			L105	*87-005-151-019	COIL, 2.2UH

REF. NO.	PART NO.	DESCRIPTION			
L106	*82-794-683-019	IFT, FM 6T			
L107	*87-007-259-019	COIL, FM OSC (7K)N			
L108	*87-005-151-019	COIL, 2. 2UH			
L110	*87-005-151-019	COIL, 2. 2UH(Z)			
L131	*81-631-611-019	COIL, QUAD <SINGLE>			
L132	*82-794-697-019	FILTER, ANTI BIRDIE(Z)			
L151	*81-631-643-019	COIL, 1 POLE MPX			
L152	*81-631-643-019	COIL, 1 POLE MPX			
L181	*87-006-182-019	COIL, MW ANT 2B(H, U)			
L181	*87-006-176-019	COIL, MW ANT(E, K, Z)			
L182	*82-794-687-019	COIL, OSC			
L183	*87-006-177-019	COIL, LW ANT(E, K, Z)			
L184	*82-794-688-019	COIL, LW OSC(E, K, Z)			
S201	82-795-624-019	SLIDE SW(AM STEP)			
SFR131	*87-024-174-019	SFR, 33K			
SFR151	*87-024-171-019	SFR, 4. 7K			
TC101	*87-011-219-019	CAP, TRIMMER 10P			
TC102	*87-011-219-019	CAP, TRIMMER 10P			
TC181	*87-011-220-019	CAP, TRIMMER 20P			
TC182	*87-011-221-019	CAP, TRIMMER 30P(E, K, Z)			
===LAMP CIRCUIT BOARD SECTION===					
PL601	83-317-611-010	LAMP 12V			
PL602	83-317-611-010	LAMP 12V			
△R681	87-029-094-019	RES, FUSE 15-1/4W(E, K, Z)			
△R682	87-029-094-019	RES, FUSE 15-1/4W(E, K, Z)			
===MIC CIRCUIT BOARD SECTION===					
J671	87-009-078-019	JACK, 6. 3M/S(MIC)(H, E, K, Z)			
===POWER CIRCUIT BOARD SECTION(H MODEL)===					
△	87-033-147-019	CLAMP, FUSE			
△F2	87-035-191-019	FUSE 3. 15A			
△F3	87-035-224-019	FUSE T1. 6A			
△PT1	80-MK3-601-019	POWER TRANSFORMER H			
△S51	87-036-136-019	ROTARY SW(AC VOLTAGE)			
===POWER-1 CIRCUIT BOARD SECTION(U, E, K, Z MODELS)===					
△	87-033-147-019	CLAMP, FUSE			
△PT1	80-MK3-604-019	POWER TRANSFORMER U(U)			
△PT1	80-MK3-603-019	POWER TRANSFORMER E(E, Z)			
△PT1	80-MK3-602-019	POWER TRANSFORMER K(K)			
△F2	87-035-403-019	FUSE UL 250V 2. 5A(U)			
△F2	87-035-224-019	FUSE T1. 6A(E, K, Z)			
===POWER-2 CIRCUIT BOARD SECTION(U, E, K, Z MODELS)===					
===HEAD CIRCUIT BOARD SECTION===					
PH	S6-202-030-330	P HEAD(W/PCB-1)(D2)			
S41	S6-403-020-040	SLIDE SW(DIRECTION)(D2)			
===MISCELLANEOUS===					
△	87-034-591-019	AC CORD E(H)			
△	87-034-589-019	AC CORD U(U)			
△	87-034-781-019	AC CORD E(E, Z)			
△	87-034-592-018	AC CORD K(K)			
△	87-085-185-010	BUSHING, AC CORD E(H, E, K, Z)			
△	87-085-189-010	BUSHING, AC CORD U(U)			
CON1	83-317-631-019	CONNECTOR ASSY 3P(PH)H			
CON2	83-317-630-019	CONNECTOR ASSY 5P(RPH)H			
EH	*S6-202-140-210	E HEAD(D1)			
M101	SS-HU2-600-000	MOTOR			
RPH	S6-202-010-750	R. P HEAD(D1)			
S42	S6-401-010-610	LEAF SW(PLAY)(D2)			
S43	S6-401-011-310	LEAF SW(MOTOR)(D2)			
S44	S6-401-010-380	LEAF SW(MOTOR)(D1)			
S45	S6-401-011-340	LEAF SW(REC)(D1)			



E C B

2SA1015

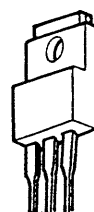
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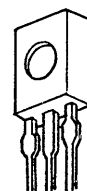
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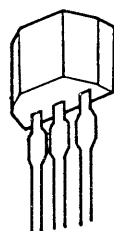
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E C B

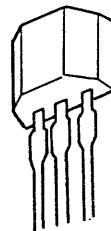
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DTA144

DTC114

RN1204

RN2207



G S D

2SK161

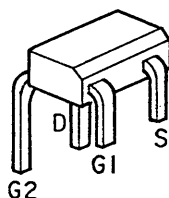
2SK241



S G D

2SK246

2SK373

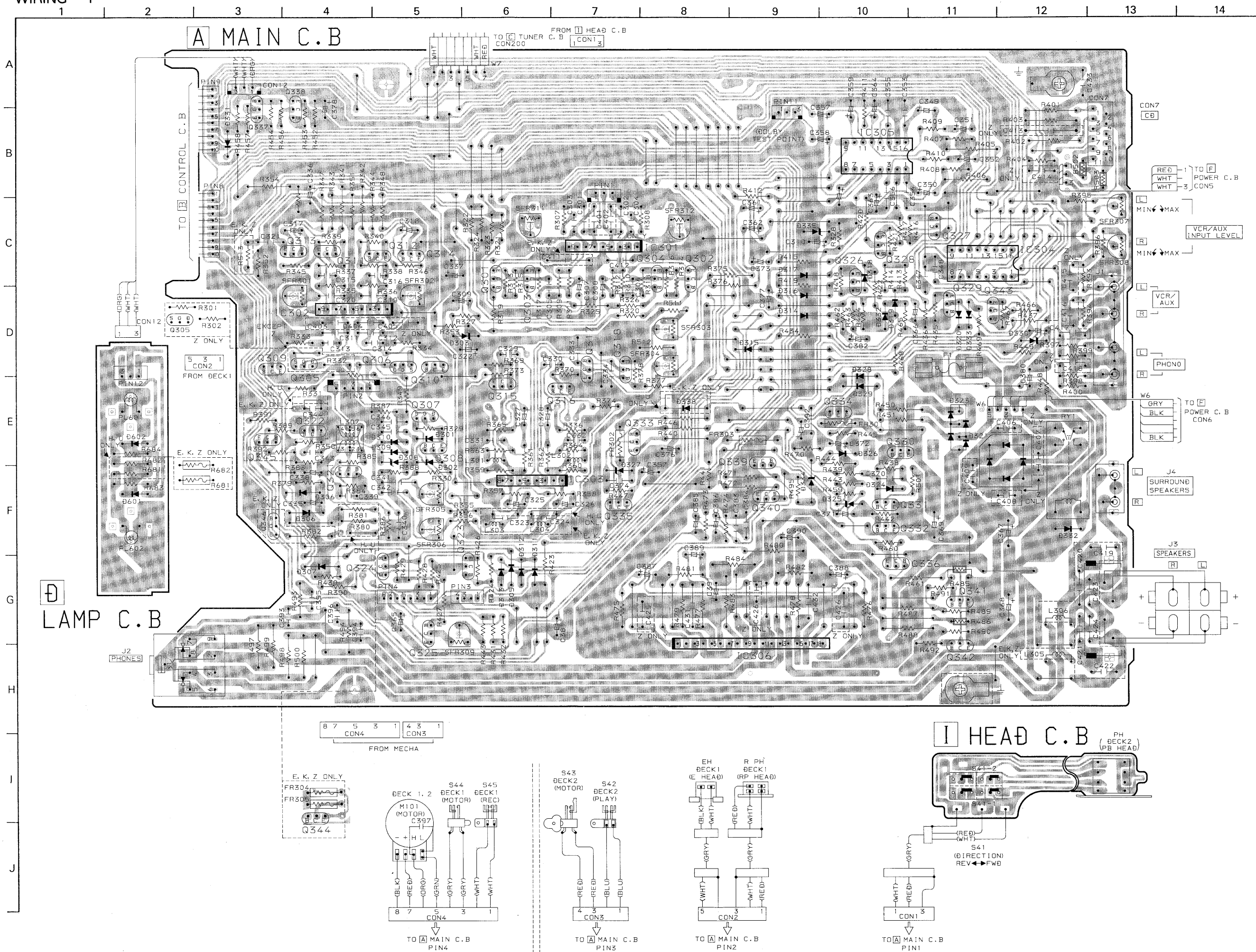


3SK73

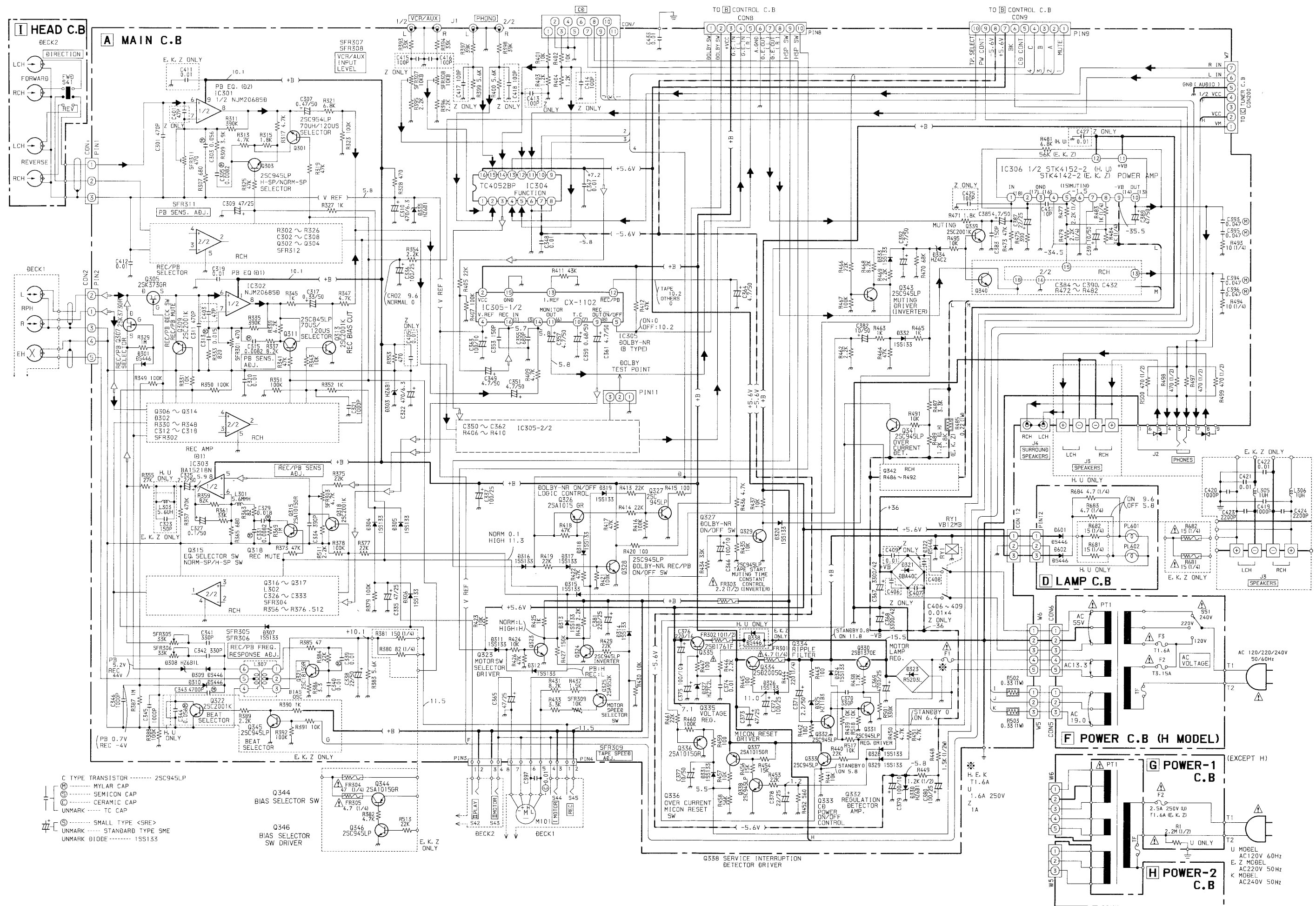
This is a detailed electronic schematic diagram for a car stereo system. The diagram is organized into several functional sections:

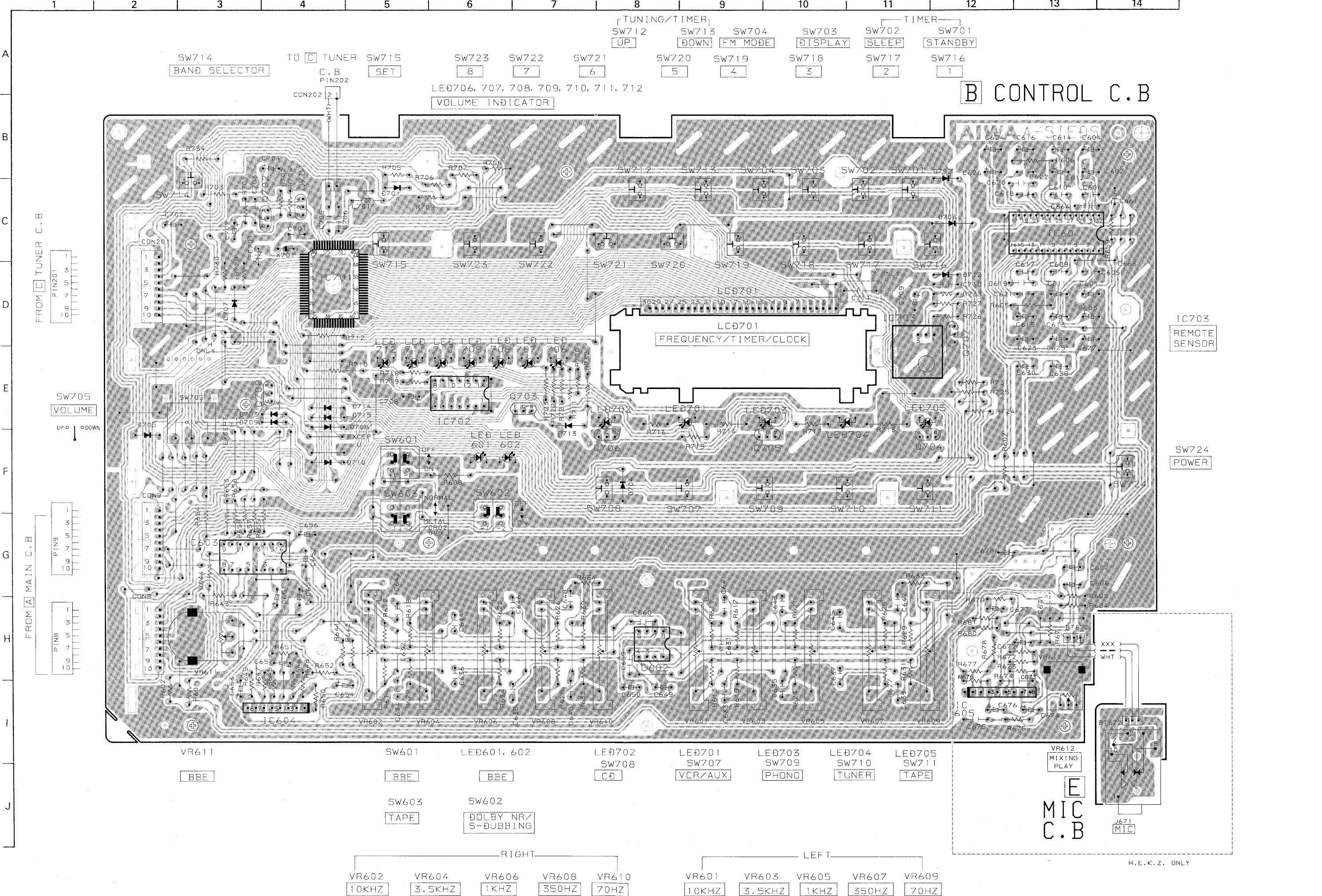
- Antenna and Tuning Section (Top Left):** Includes antenna inputs (ANT201, ANT202), variable capacitors (L182, L184, L181, L183), and a tuning PLL/controller (IC701, LC7230-8310).
- FM/AM Section (Top Center):** Features FM and AM oscillators (Q103, Q104), mixers (Q102), and amplifiers (Q151, Q152, Q153, Q154).
- Recording Section (Bottom Left):** Includes a tape selector (S41), recording amplifier (IC301, IC302), and recording head (S42, S43, S44, S45).
- Control and Display Section (Bottom Center):** Contains a control logic IC (Q324, Q323, Q324), a key matrix, and a display (LED).
- Power and Speaker Section (Bottom Right):** Shows power regulation (Q330, Q331, Q332, Q333), a power amp (R485, Q341), and speakers (J3, J4).

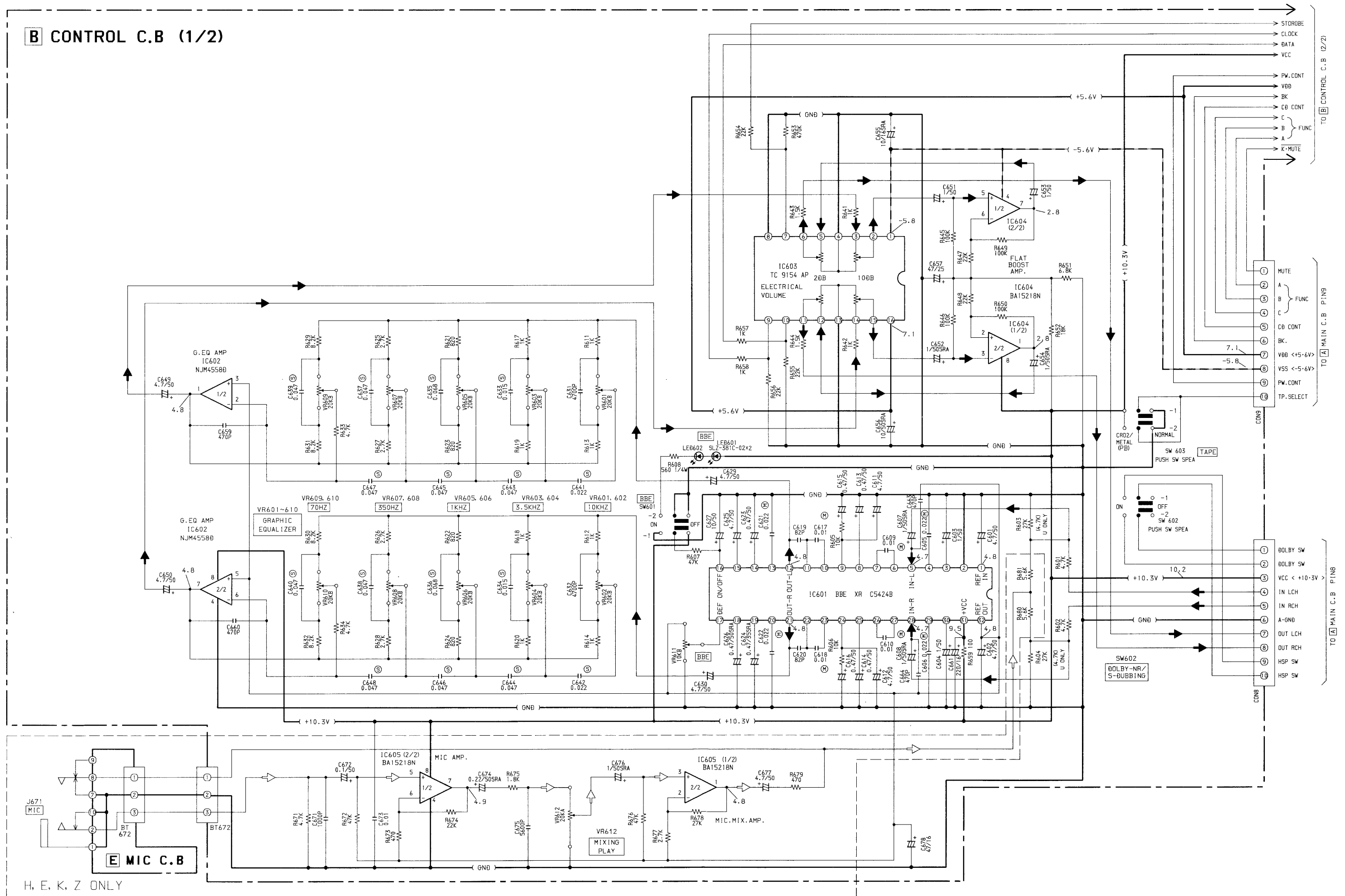
The diagram includes numerous component labels, such as ICs (IC301, IC302, IC303, IC602, IC603, IC701, IC702), transistors (Q101, Q102, Q103, Q104, Q151, Q152, Q153, Q154, Q301, Q302, Q303, Q304, Q305, Q306, Q307, Q308, Q309, Q310, Q311, Q312, Q313, Q314, Q315, Q316, Q317, Q318, Q319, Q320, Q321, Q322, Q323, Q324, Q325, Q326, Q327, Q328, Q329, Q330, Q331, Q332, Q333, Q334, Q335, Q336, Q337, Q338, Q339, Q340, Q341, Q342, Q343, Q344, Q345, Q346, Q347, Q348, Q349, Q350, Q351, Q352, Q353, Q354, Q355, Q356, Q357, Q358, Q359, Q360, Q361, Q362, Q363, Q364, Q365, Q366, Q367, Q368, Q369, Q370, Q371, Q372, Q373, Q374, Q375, Q376, Q377, Q378, Q379, Q380, Q381, Q382, Q383, Q384, Q385, Q386, Q387, Q388, Q389, Q390, Q391, Q392, Q393, Q394, Q395, Q396, Q397, Q398, Q399, Q400, Q401, Q402, Q403, Q404, Q405, Q406, Q407, Q408, Q409, Q410, Q411, Q412, Q413, Q414, Q415, Q416, Q417, Q418, Q419, Q420, Q421, Q422, Q423, Q424, Q425, Q426, Q427, Q428, Q429, Q430, Q431, Q432, Q433, Q434, Q435, Q436, Q437, Q438, Q439, Q440, Q441, Q442, Q443, Q444, Q445, Q446, Q447, Q448, Q449, Q450, Q451, Q452, Q453, Q454, Q455, Q456, Q457, Q458, Q459, Q460, Q461, Q462, Q463, Q464, Q465, Q466, Q467, Q468, Q469, Q470, Q471, Q472, Q473, Q474, Q475, Q476, Q477, Q478, Q479, Q480, Q481, Q482, Q483, Q484, Q485, Q486, Q487, Q488, Q489, Q490, Q491, Q492, Q493, Q494, Q495, Q496, Q497, Q498, Q499, Q500, Q501, Q502, Q503, Q504, Q505, Q506, Q507, Q508, Q509, Q510, Q511, Q512, Q513, Q514, Q515, Q516, Q517, Q518, Q519, Q520, Q521, Q522, Q523, Q524, Q525, Q526, Q527, Q528, Q529, Q530, Q531, Q532, Q533, Q534, Q535, Q536, Q537, Q538, Q539, Q540, Q541, Q542, Q543, Q544, Q545, Q546, Q547, Q548, Q549, Q550, Q551, Q552, Q553, Q554, Q555, Q556, Q557, Q558, Q559, Q560, Q561, Q562, Q563, Q564, Q565, Q566, Q567, Q568, Q569, Q570, Q571, Q572, Q573, Q574, Q575, Q576, Q577, Q578, Q579, Q580, Q581, Q582, Q583, Q584, Q585, Q586, Q587, Q588, Q589, Q590, Q591, Q592, Q593, Q594, Q595, Q596, Q597, Q598, Q599, Q600, Q601, Q602, Q603, Q604, Q605, Q606, Q607, Q608, Q609, Q610, Q611, Q612, Q613, Q614, Q615, Q616, Q617, Q618, Q619, Q620, Q621, Q622, Q623, Q624, Q625, Q626, Q627, Q628, Q629, Q630, Q631, Q632, Q633, Q634, Q635, Q636, Q637, Q638, Q639, Q640, Q641, Q642, Q643, Q644, Q645, Q646, Q647, Q648, Q649, Q650, Q651, Q652, Q653, Q654, Q655, Q656, Q657, Q658, Q659, Q660, Q661, Q662, Q663, Q664, Q665, Q666, Q667, Q668, Q669, Q670, Q671, Q672, Q673, Q674, Q675, Q676, Q677, Q678, Q679, Q680, Q681, Q682, Q683, Q684, Q685, Q686, Q687, Q688, Q689, Q690, Q691, Q692, Q693, Q694, Q695, Q696, Q697, Q698, Q699, Q700, Q701, Q702, Q703, Q704, Q705, Q706, Q707, Q708, Q709, Q710, Q711, Q712, Q713, Q714, Q715, Q716, Q717, Q718, Q719, Q720, Q721, Q722, Q723, Q724, Q725, Q726, Q727, Q728, Q729, Q730, Q731, Q732, Q733, Q734, Q735, Q736, Q737, Q738, Q739, Q740, Q741, Q742, Q743, Q744, Q745, Q746, Q747, Q748, Q749, Q750, Q751, Q752, Q753, Q754, Q755, Q756, Q757, Q758, Q759, Q760, Q761, Q762, Q763, Q764, Q765, Q766, Q767, Q768, Q769, Q770, Q771, Q772, Q773, Q774, Q775, Q776, Q777, Q778, Q779, Q780, Q781, Q782, Q783, Q784, Q785, Q786, Q787, Q788, Q789, Q790, Q791, Q792, Q793, Q794, Q795, Q796, Q797, Q798, Q799, Q800, Q801, Q802, Q803, Q804, Q805, Q806, Q807, Q808, Q809, Q810, Q811, Q812, Q813, Q814, Q815, Q816, Q817, Q818, Q819, Q820, Q821, Q822, Q823, Q824, Q825, Q826, Q827, Q828, Q829, Q830, Q831, Q832, Q833, Q834, Q835, Q836, Q837, Q838, Q839, Q840, Q841, Q842, Q843, Q844, Q845, Q846, Q847, Q848, Q849, Q850, Q851, Q852, Q853, Q854, Q855, Q856, Q857, Q858, Q859, Q860, Q861, Q862, Q863, Q864, Q865, Q866, Q867, Q868, Q869, Q870, Q871, Q872, Q873, Q874, Q875, Q876, Q877, Q878, Q879, Q880, Q881, Q882, Q883, Q884, Q885, Q886, Q887, Q888, Q889, Q890, Q891, Q892, Q893, Q894, Q895, Q896, Q897, Q898, Q899, Q900, Q901, Q902, Q903, Q904, Q905, Q906, Q907, Q908, Q909, Q910, Q911, Q912, Q913, Q914, Q915, Q916, Q917, Q918, Q919, Q920, Q921, Q922, Q923, Q924, Q925, Q926, Q927, Q928, Q929, Q930, Q931, Q932, Q933, Q934, Q935, Q936, Q937, Q938, Q939, Q940, Q941, Q942, Q943, Q944, Q945, Q946, Q947, Q948, Q949, Q950, Q951, Q952, Q953, Q954, Q955, Q956, Q957, Q958, Q959, Q960, Q961, Q962, Q963, Q964, Q965, Q966, Q967, Q968, Q969, Q970, Q971, Q972, Q973, Q974, Q975, Q976, Q977, Q978, Q979, Q980, Q981, Q982, Q983, Q984, Q985, Q986, Q987, Q988, Q989, Q990, Q991, Q992, Q993, Q994, Q995, Q996, Q997, Q998, Q999, Q1000, Q1001, Q1002, Q1003, Q1004, Q1005, Q1006, Q1007, Q1008, Q1009, Q1010, Q1011, Q1012, Q1013, Q1014, Q1015, Q1016, Q1017, Q1018,



SCHEMATIC DIAGRAM – 1





B CONTROL C.B (1/2)**E MIC C.B**

H, E, K, Z ONLY

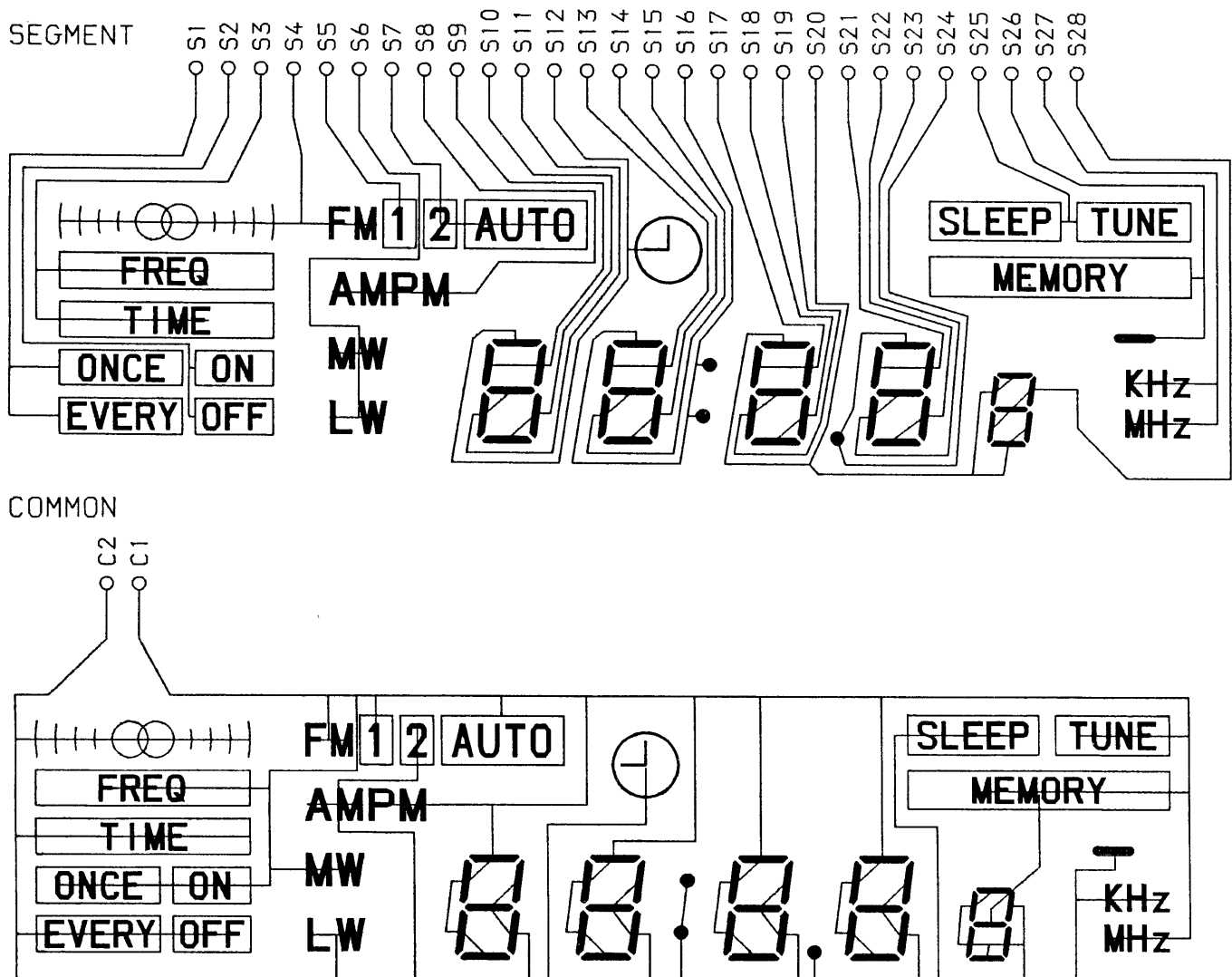
IC DESCRIPTION

IC, LC7230 – 8310

Pin No.	Pin Name	I/O	Description																								
1 80	X IN XOUT	—	A 4.5MHz crystal oscillator is connected to these pins.																								
2 79	TEST2 TEST1	—	Test terminal connected by GND.																								
35~32 4 3	KI0~KI3 KI4 KI5	I	Key inputs.																								
5	REMOCON	I	Remote control serial data input. Active "L"																								
6	POW SW	I	Power on/off control input. Controls POW CONT at pin 12. Power is turned on and off every time "H" is input.																								
7	AUX	O	<table border="1"><tr><td>TUNER</td><td>CD</td><td>PHONO</td><td>AUX</td><td>TAPE</td></tr><tr><td>H</td><td>H</td><td>H</td><td>L</td><td>L</td></tr></table> * ⑦ is not used(H, U)	TUNER	CD	PHONO	AUX	TAPE	H	H	H	L	L														
TUNER	CD	PHONO	AUX	TAPE																							
H	H	H	L	L																							
8 9 10	FM LW MW	O	Band switching outputs. <table border="1"><tr><td></td><td>FM</td><td>MW(AM)</td><td>LW*</td></tr><tr><td>⑧ FM</td><td>L</td><td>H</td><td>H</td></tr><tr><td>⑨ LW</td><td>H</td><td>H</td><td>L</td></tr><tr><td>⑩ MW</td><td>H</td><td>L</td><td>H</td></tr></table> * ⑨, ⑩ is not used(H, U) * Only for the E, K, Z specifications.		FM	MW(AM)	LW*	⑧ FM	L	H	H	⑨ LW	H	H	L	⑩ MW	H	L	H								
	FM	MW(AM)	LW*																								
⑧ FM	L	H	H																								
⑨ LW	H	H	L																								
⑩ MW	H	L	H																								
11	FM MONO	O	Output switched by the mode switch. "L" in the FM AUTO mode and when AM "0" is displayed.																								
12	POW CONT	O	Power on/off control output. The output is switched between "H" and "L" every time pin 6(POW SW)gose "H".																								
13	K. MUTE	O	Outputs a muting signal when a key is operated. Active "L".																								
14 15 16	CLOCK DATA STROBE	O	Control signal outputs for the electronic volume IC, TC9154AP. When power is turned on, the volume is restored to the position where it was set immediately before power was turned off.																								
17 18 19	FUNCTION A FUNCTION B FUNCTION C	O	Function switchig outputs. <table border="1"><tr><td></td><td>TUNER</td><td>CD</td><td>PHONO</td><td>AUX</td><td>TAPE</td></tr><tr><td>⑰</td><td>H</td><td>H</td><td>L</td><td>L</td><td>L</td></tr><tr><td>⑱</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr><tr><td>⑲</td><td>H</td><td>H</td><td>H</td><td>H</td><td>L</td></tr></table> When power is turned on, the last function immediately before power was turn off is restored.		TUNER	CD	PHONO	AUX	TAPE	⑰	H	H	L	L	L	⑱	H	L	H	L	L	⑲	H	H	H	H	L
	TUNER	CD	PHONO	AUX	TAPE																						
⑰	H	H	L	L	L																						
⑱	H	L	H	L	L																						
⑲	H	H	H	H	L																						
20	T5	O	Outputs data to display the function and volume. The LEDs indicating the function and volume are driven by shift register IC702, TC74HC164AP.																								
30~27 21	T0~T3 T4	O	Key scan outputs.																								
31, 73	VDD	—	Power supply pins. (Not used)																								
22	CLK	O	Outputs a clock signal to the IC, TC74HC164AP (shift register) which drives the function and volume LEDs.																								
23	C	O	Output obtained by inverting FUNCTION C at pin 19. TAPE LED lighting output.																								
24	D2	O	MUTE LED lighting output. (Not used)																								
25	D1	O	VOL DOWN LED lighting output.																								
26	D0	O	VOL UP LED lighting output.																								

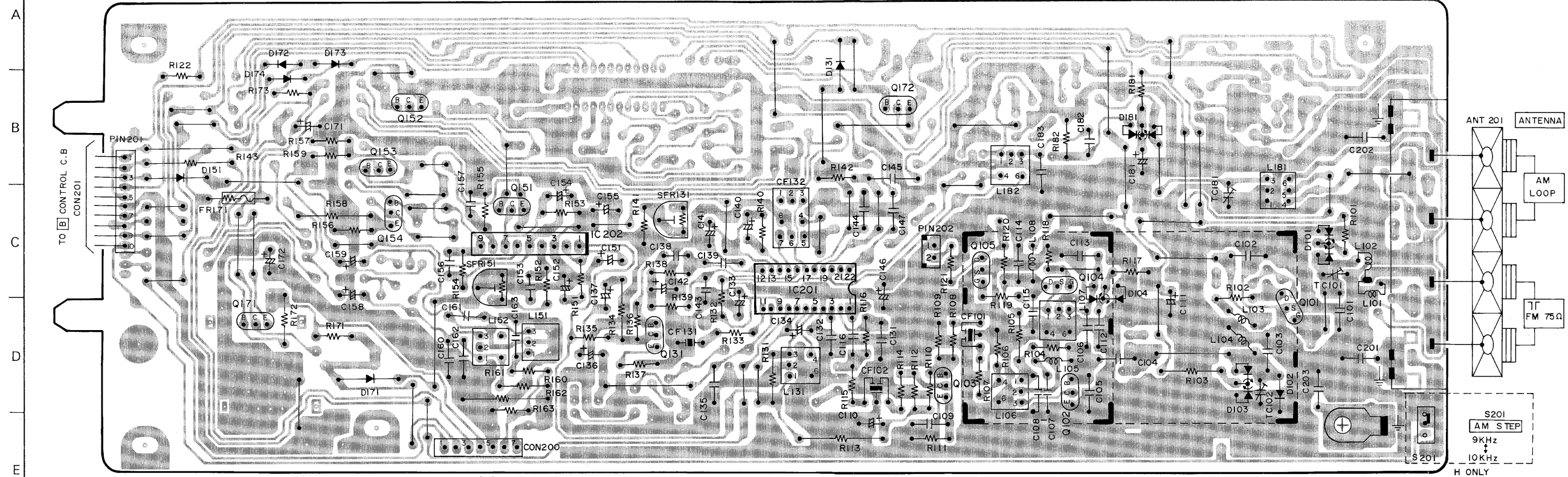
Pin No.	Pin Name	I/O	Description
36~63	S28~S1	O	Segment outputs to light the LCD.
65 64	COM2 COM1	O	Common outputs to light the LCD.
66	$\overline{\text{INT}}$	I	Remote control interruption input.
67	$\overline{\text{HOLD}}$	I	"L" input sets the unit to the HOLD mode. Gose "L" when a power failure occurs and sets the HOLD mode. The unit enters the low current consumption mode in the HOLD mode and can hold the preset stations in memory for a longer time.
68	$\overline{\text{RESET}}$	I	Reset pin. "L" input resets the IC.
69	$\overline{\text{SD}}$	I	Turning auto scanning stop input. "L" input stops scanning and TUNE lights in the LCD.
70, 71	—	—	Not used.
72	$\overline{\text{STE}}$	I	Input to light the stereo indicator ((((O)))) in the FM mode. Active "L".
74	FM IN	I	FM local oscillator input.
75	AM IN	I	AM local oscillator input.
76	Vss	—	Connected by GND.
77 78	$\overline{\text{EO1}}$ $\overline{\text{EO2}}$	O	Tuning error outputs. ($\text{\textcircled{V}}$ is not used.)

DISPLAY (LCD 701)

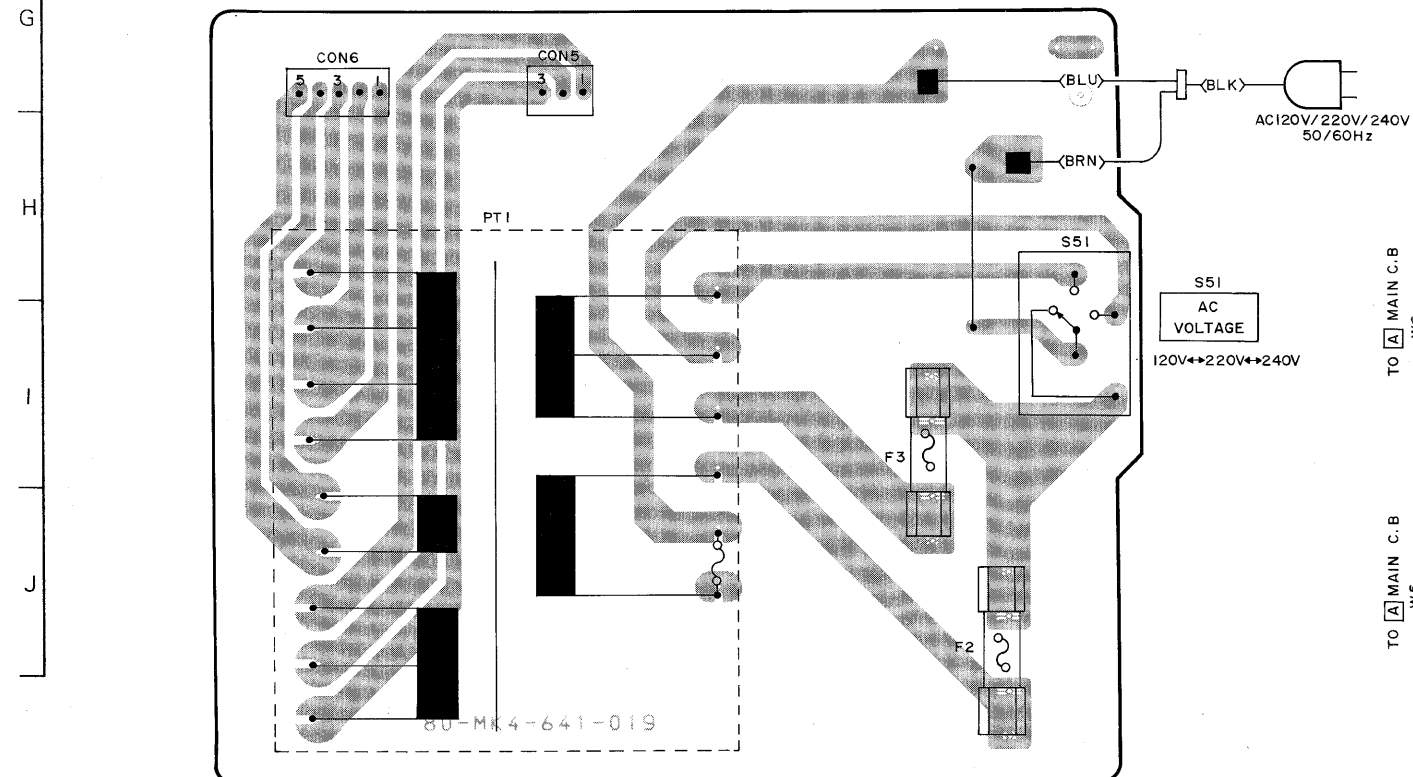


1 2 3 4 5 6 7 8 9 10 11 12 13 14

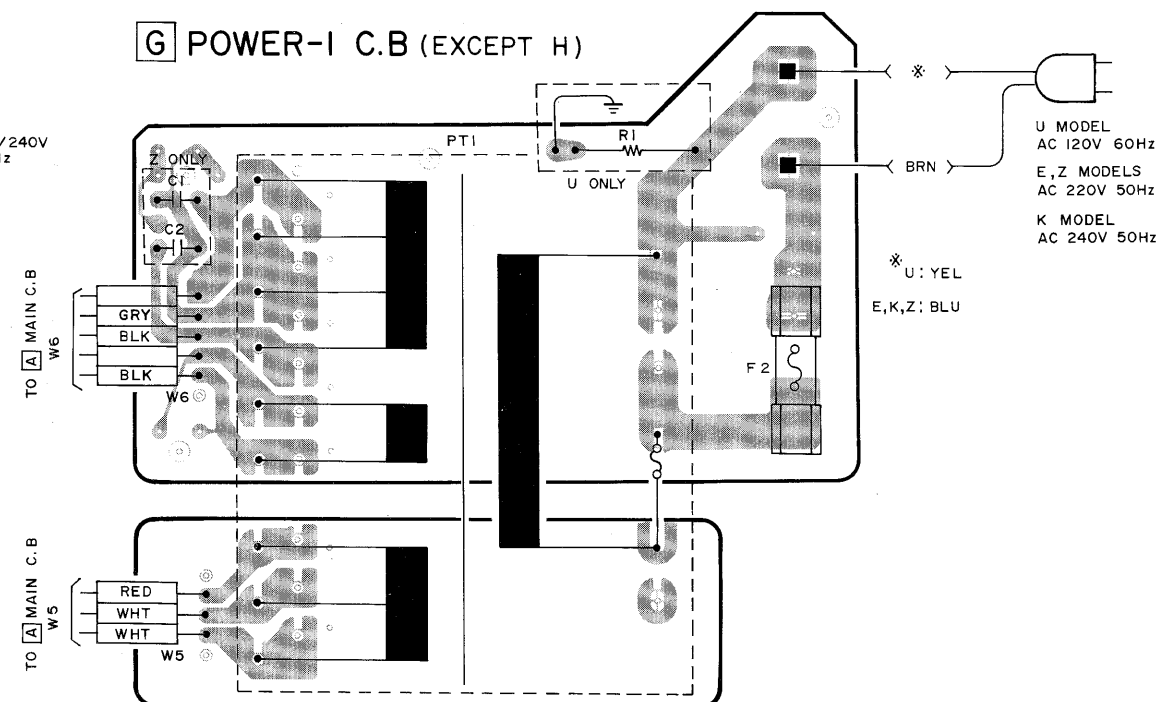
C TUNER C.B (H,U MODELS)



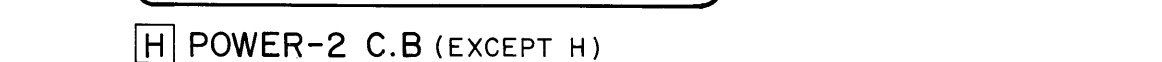
F POWER C.B (H MODEL)



G POWER-1 C.B (EXCEPT H)



H POWER-2 C.B (EXCEPT H)



B CONTROL C.B (2/2)

TO B CONTROL C.B (1/2)

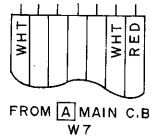
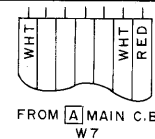
VCC
POW CONT
K.MUTE
CLOCK
DATA
STROBE
FUNC {A, B, C}
CD CONT
VDB
BK

IC 703 SBX1610
-52
ZSC200140
+5.6
+5.7
+6.4
+10.2

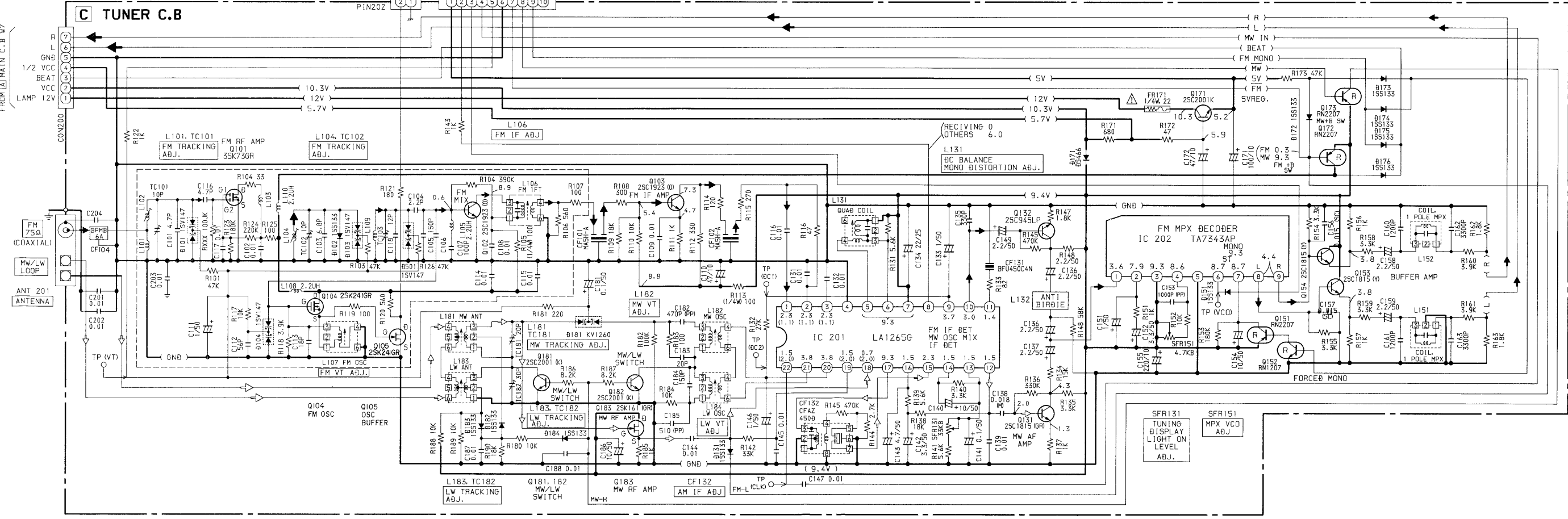
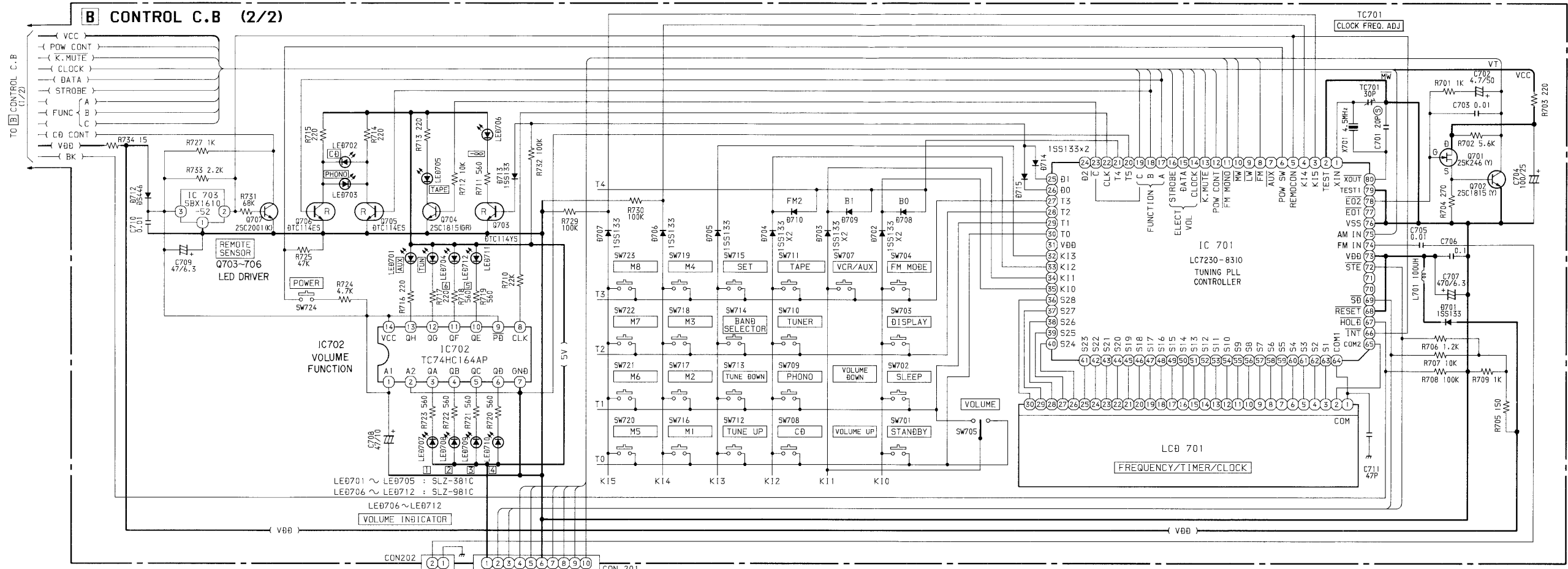
REMOTE SENSOR
C709 47/6.3
C710 0.01
R734 15
R735 2.2K
R731 68K
R727 1K
R715 220
R713 220
R712 10K
R711 560
R710 10K
R709 10K
R708 10K
R707 10K
R706 10K
R705 10K
R704 10K
R703 10K
R702 10K
R701 10K

IC 702 VOLUME FUNCTION
TC74HC164P
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14
VCC GND CLK

IC 701
LC7230-8310
TUNING PLL CONTROLLER
FUNCTION {A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700,

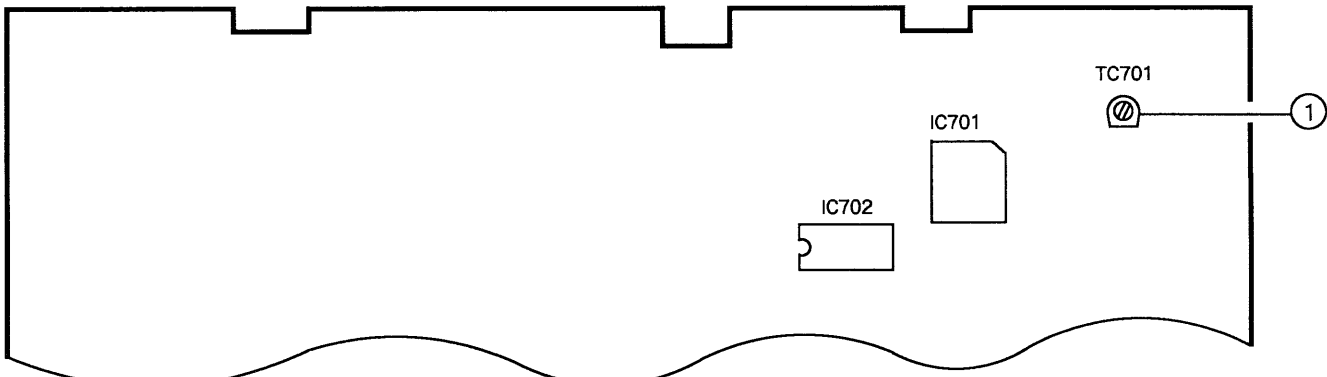


SCHEMATIC DIAGRAM – 5 (Z MODEL)

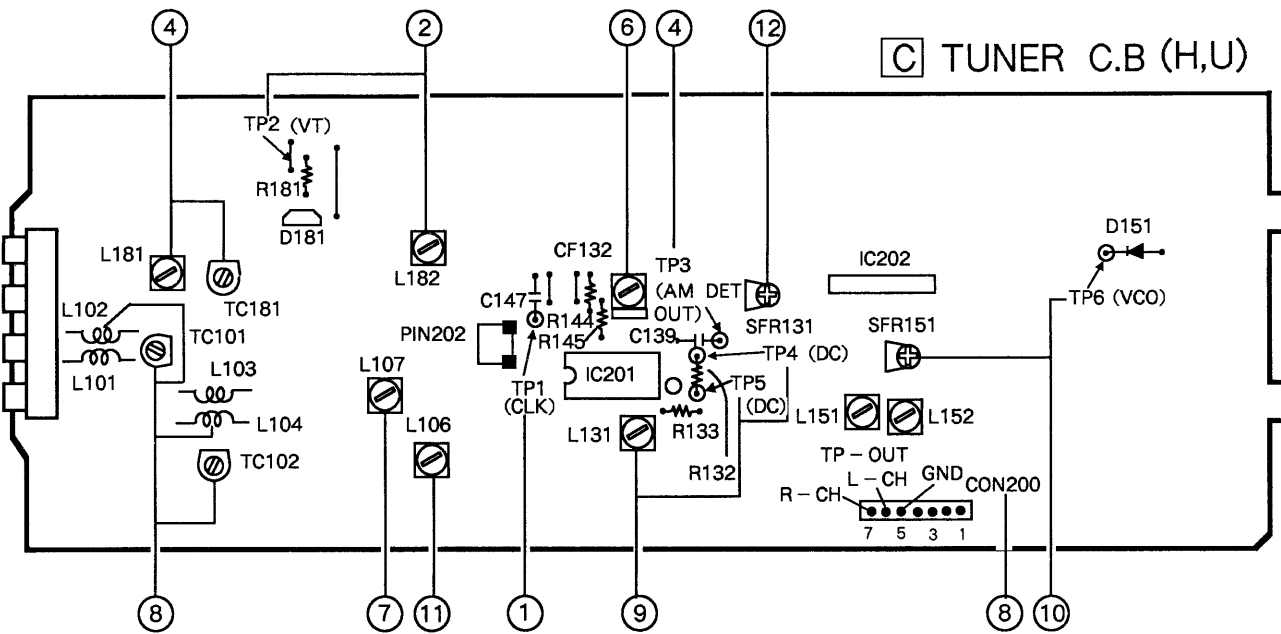


ADJUSTMENT

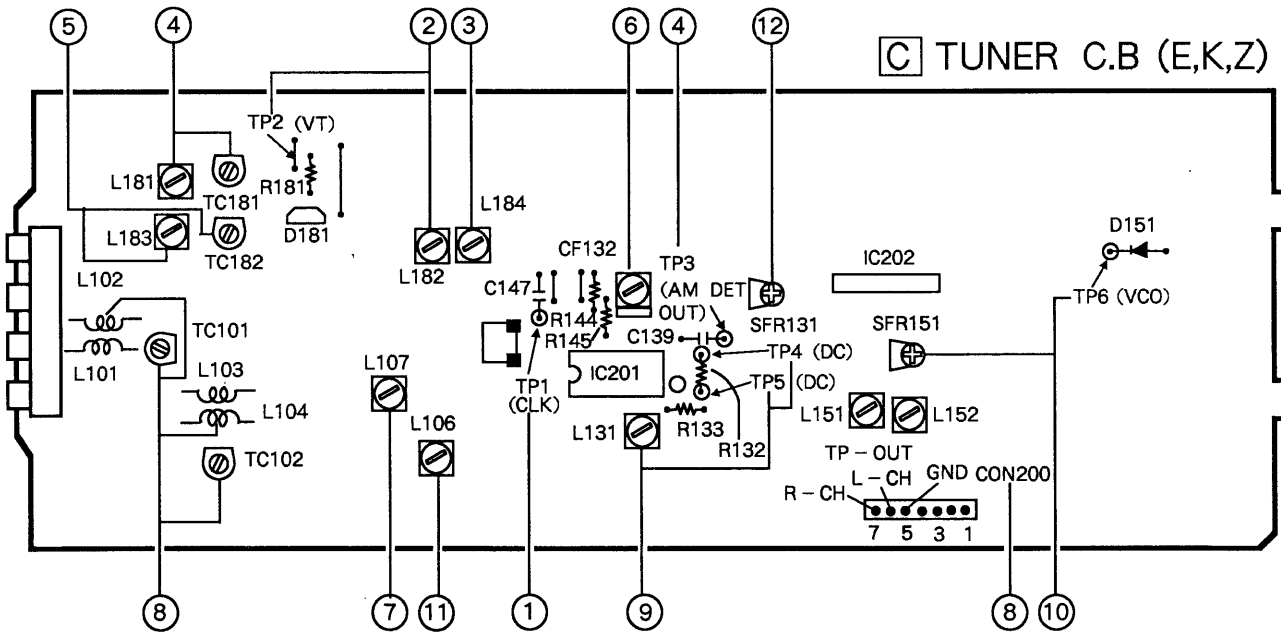
B CONTROL C.B



C TUNER C.B (H,U)



C TUNER C.B (E,K,Z)



Initialized Condition

GEQ VR: Center
 MAIN VR: Maximum
 AUX VR: Maximum
 MIC VR: Minimum
 BBE VR: Minimum
 DOLBY NR SW: OFF
 Standard Input Level: 1V, 0dB (AMP)

(TUNER SECTION)

1. Clock Frequency Adjustment

Settings: • Test point: TP1 (CLK)
 • Adjustment location: TC701
 Method: Set to AM 1602kHz (H), 1611kHz (E,K,Z),
 1710kHz (U) and adjust so that the test
 point becomes $2052\text{kHz} \pm 0.01\text{kHz}$ (H), $2061\text{kHz} \pm 0.01\text{kHz}$ (E,K,Z), $2160\text{kHz} \pm 0.01\text{kHz}$ (U).

2. MW (AM) VT Adjustment

Settings: • Test point: TP2 (VT)
 • Adjustment location: L182
 Method: Set to MW (AM) 531kHz (H), 522kHz (E,K,Z),
 530kHz (U) and adjust so that the test point
 becomes $1.1\text{V} \pm 0.05\text{V}$ (H,U), $1.0\text{V} \pm 0.05\text{V}$
 (E,K,Z).

3. LW VT Adjustment (E,K,Z)

Settings: • Test point: TP2 (VT)
 • Adjustment location: L184
 Method: Set to LW 144kHz and adjust so that the test
 point becomes $1.5\text{V} \pm 0.05\text{V}$.

4. MW Tracking Adjustment

Settings: • Test point: TP3
 L181 612kHz (H)
 603kHz (E,K,Z)
 620kHz (U)
 TC181 1413kHz (H)
 1404kHz (E,K,Z)
 1510kHz (U)

5. LW Tracking Adjustment (E,K,Z)

Settings: • Test point: TP3
 L183 144kHz
 TC182 290kHz

6. AM IF Adjustment

Settings: • Test point: TP OUT (CON200)
 CF132 450kHz

7. FM VT Adjustment

Settings: • Test point: TP2 (VT)
 • Adjustment location: L107
 Method: Set to FM 87.5MHz and adjust L807 so that
 the test point becomes $3.0\text{V} \pm 0.05\text{V}$.

8. FM Tracking Adjustment

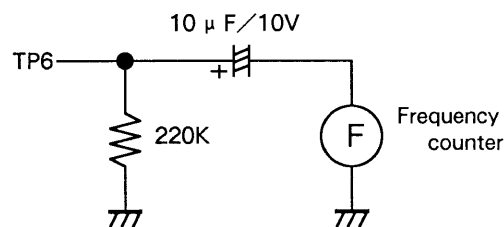
Settings: • Test point: TP OUT (PIN20)
 TC101, TC102 108.0MHz
 L102, L104 87.5MHz

9. DC Balance/MONO Distortion Adjustment

Settings: • Test point: TP4, TP5 (DC balance)
 TP OUT (CON200)
 (Distortion)
 • Adjustment location: L131
 Method: Set to FM 98.0MHz and adjust L131 so that
 TP4 and TP5 output becomes $0\text{V} \pm 0.02\text{V}$.
 Next, adjust L131 so that the distortion
 becomes minimum (less than 0.8%).

10. MPX VCO Adjustment

Settings: • Test point: TP6
 • MODE SW: STEREO
 • Adjustment location: SFR151
 Method: Connect a capacitor and a resistor as below.
 Set to FM 98.0MHz and adjust so that the
 frequency at test point becomes $38\text{kHz} \pm 0.05\text{kHz}$.

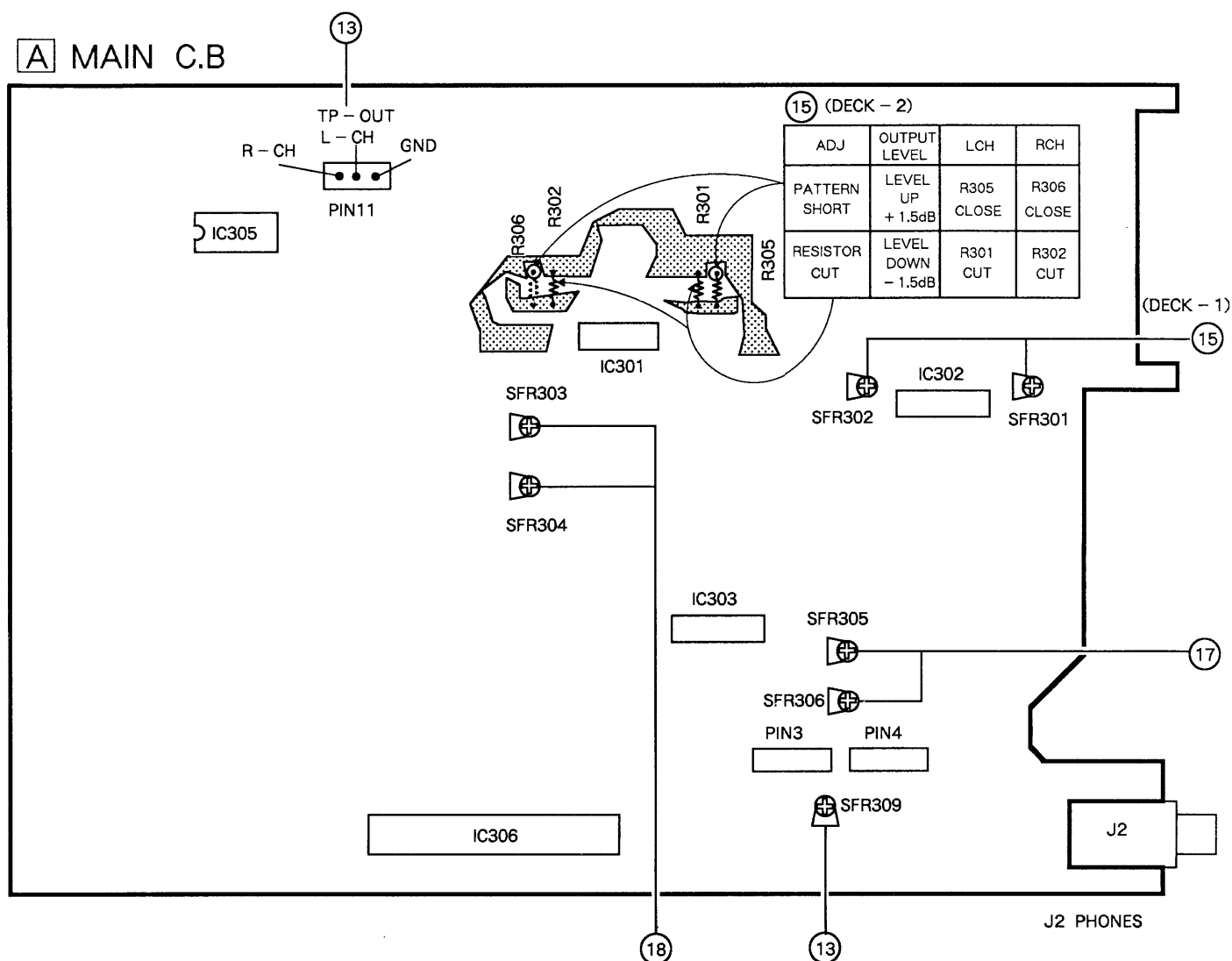


11. FM IF Adjustment

Settings: • Test point: TP OUT (CON200)
 L106 10.7MHz

12. Light on tuning LED Adjustment

Settings: • Adjustment location: SFR131
 • Input level: 18dB
 Method: Set to FM 98.0MHz and adjust TUNNING
 LED to light on by SFR131. After that
 LED goes out by 2dB down.



(DECK SECTION)

13. Normal Speed Adjustment (DECK-1, DECK-2)

Settings : • Test tape : TTA-100 (TTA-111S)

• Test point : TP-OUT (PIN11)

• Adjustment location : SFR309

(DECK-1, DECK-2)

Method : Play back the test tape, adjust for 3000Hz.

14. Head Azimuth Adjustment (DECK-1, DECK-2)

Settings : • Test tape : TTS-310 (TTA-317E, SCC-1429)

• Test point : TP-OUT (PIN11)

• Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum.

15. PB Sensitivity Adjustment (DECK-1, DECK-2)

Settings : • Test tape : TTA-200 (TTA-161, TCC-130)

• Test point : TP-OUT (PIN11)

• Adjustment location : SFR301 (DECK-1, Lch)

SFR302 (DECK-1, Rch)

R301,305

(DECK-2, Lch)

R302,306

(DECK-2, Rch)

Method : Play back the test tape and adjust so that the output becomes 385mV.

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

Settings : • Test tape : TTS-310 (TTA-317E, SCC-1429)

• Test point : TP-OUT (PIN11)

Method : Play back the 315Hz and 10kHz signals of the test tape and check the output of the 10kHz signal is $0\text{dB} \pm 4\text{dB}$ with respect to that of the 315Hz signal.

17. REC/PB Frequency Response Adjustment (DECK-1)

Settings : • Test tape : TTA-600 (TTA-119K)

• Test point : TP-OUT (PIN11)

• Input signal : 1kHz/10kHz (VCR/AUX IN)

• Adjustment location : SFR305 (Lch)

SFR306 (Rch)

Method : Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 270mV.

Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is $0\text{dB} \pm 0.5\text{dB}$ for 1kHz signal.

18. REC/PB Sensitivity Adjustment (DECK-1)

- Settings : • Test tape : TTA-600 (TTA-119K)
 • Test point : TP-OUT (PIN11)
 • Input signal : 1kHz (VCR/AUX IN)
 • Adjustment location : SFR303 (Lch)
 SFR304 (Rch)

Method : Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 270mV. Record and play the 1kHz signal and adjust SFR303 and SFR304 so that the output level is 270mV $\pm$ 0.5dB.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity : $2 \pm 4\text{dB}$ (H,U,E,K)
 (THD 3%) (at 87.5/98.0/108.0MHz)
 $2 \pm 4\text{dB}$ (Z)
 (at 87.5MHz)
 $4 \pm 4\text{dB}$ (Z)
 (at 98.0MHz)
 $3 \pm 4\text{dB}$ (Z)
 (at 108.0MHz)

S/N 50dB Quieting Sensitivity :
 $28 \pm 6\text{dB}$ (H,U,E,K)
 (at 87.5/98.0/108.0MHz)
 (S/N 46dB) $32 \pm 6\text{dB}$ (Z)
 (at 87.5/98.0/108.0MHz)

Signal to Noise Ratio : (MONO.)
 More than 68dB
 (at 98.0MHz)
 (STEREO)
 More than 62dB (H,U,E,K)
 (at 98.0MHz)
 More than 60dB (Z)
 (at 98.0MHz)

Distortion : (MONO.)
 Less than 0.8 %
 (at 98.0MHz)
 (STEREO)
 Less than 1.5 %
 (at 98.0MHz)

Stereo Separation : More than 25dB

Intermediate Frequency : 10.7MHz

< MW (AM) Section >

Sensitivity : $55 \pm 5\text{dB}$
 (S/N 20dB) [at 603kHz (H,E,K,Z)]
 [at 620kHz (U)]
 $52 \pm 5\text{dB}$
 [at 999kHz (H,E,K,Z)]
 [at 1000kHz (U)]
 $51 \pm 5\text{dB}$
 [at 1404kHz (H,E,K,Z)]
 [at 1410kHz (U)]

Distortion : Less than 2.0 %
 [at 999kHz (H,E,K,Z)]
 [at 1000kHz (U)]

Intermediate Frequency : 450kHz

< LW SECTION >

Sensitivity : $64 \pm 5\text{dB}$
 (S/N 20dB) (at 144/198/290kHz)
Distortion : Less than 1.5 % (at 198kHz)
Intermediate Frequency : 450kHz

< DECK SECTION >

PB Output Level : $1.6\text{V} \pm 2.0\text{dB}$ (AUX - 11.5dB,
 [TTS - 200 (TCC - 130, TTA - 161)] VR 2V, SP OUT)
REC/PB Output Level : $2.0\text{V} \pm 2.0\text{dB}$ (AUX - 11.5dB,
 (AUX - 18dB) VR 2V, SP OUT)

Distortion (REC/PB) : Less than 3.0 % (NORM.)
Noise (PB) : Less than 15mV/20mV
 (DOLBY B NR ON/OFF
 NORM., VR MAX.)

Erasing Ratio : More than 57dB (at 125Hz)

Channel Separation : More than 28dB (1kHz, 0VU)

Recording Bias Frequency :
 85kHz
Noise (REC/PB) : Less than 15mV/20mV
 (DOLBY B NR ON/OFF
 NORM., SP OUT, VR 2V)
Wow & Flutter : Less than 0.25 % (DECK1/2)

(W - RMS)

Tape Speed : $3000\text{Hz} \pm 1.5\%$
 [TTA - 100 (TTA - 111S)]

Take - up Torque : 30~60g - cm (DECK1/2)

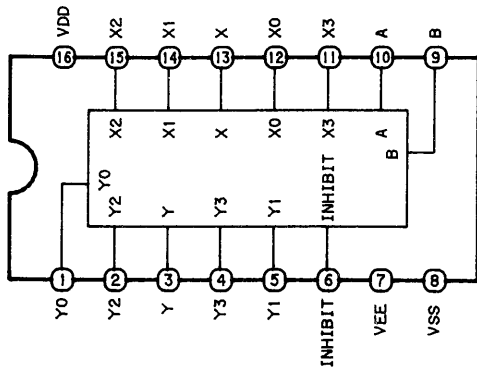
F.F & REW Torque : 55~140g - cm (DECK1/2)

Back Tension : 2~5g - cm (DECK1/2)

Test Tape : NORMAL TTA - 600
 (TTA - 119K)
 CrO2 TTA - 610
 (TTA - 119H)
 MT TTA - 620
 (TTA - 119MP)

IC BLOCK DIAGRAM

IC,TC4052BP

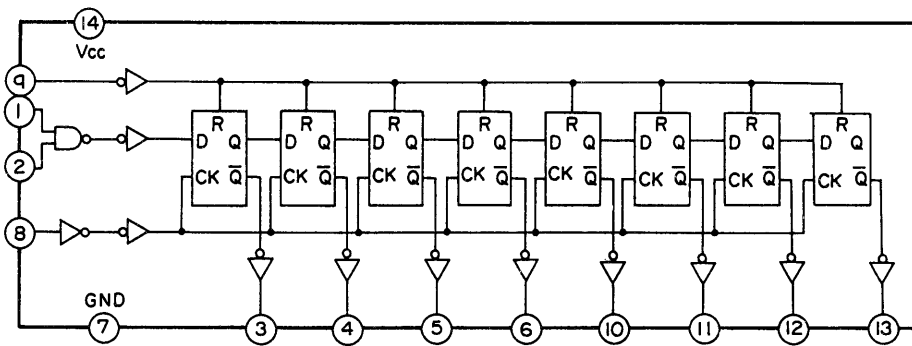


TRUTH TABLE

CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

L : LOW LEVEL
H : HIGH LEVEL
X : IRRELEVANT

IC,TC74HC164AP

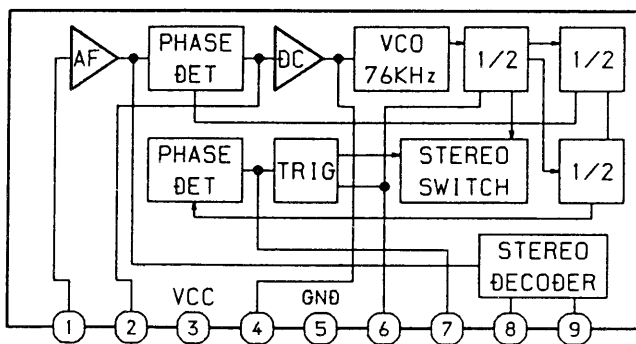


TRUTH TABLE

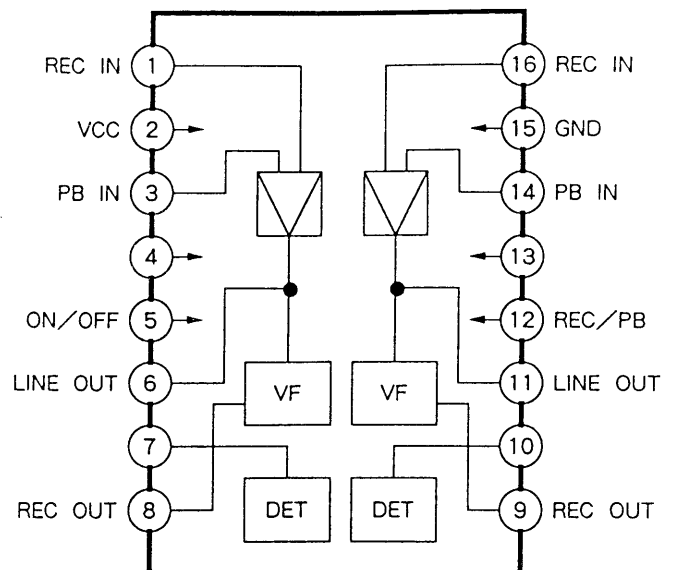
INPUTS				OUTPUTS			
CLR	CK	SERIAL IN		QA	QB	...	QH
		A	B				
L	X	X	X	L	L	...	L
H	↗	X	X	NO CHANGE			
H	↗	L	X	L	QAn	...	QGn
H	↗	X	L	L	QAn	...	QGn
H	↗	H	H	H	QAn	...	QGn

X : Don't Care

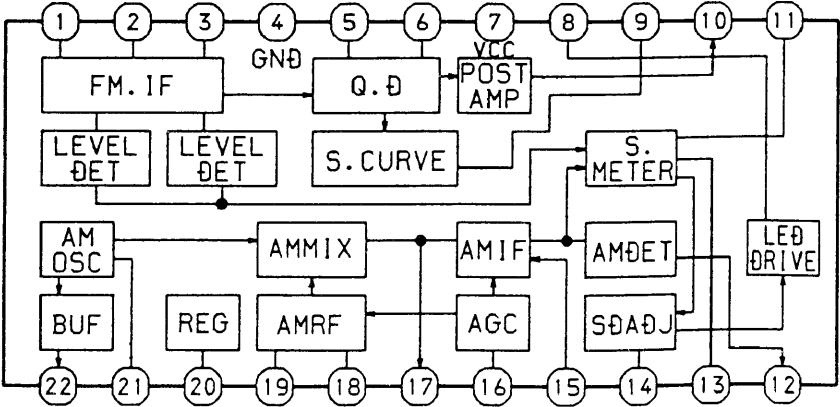
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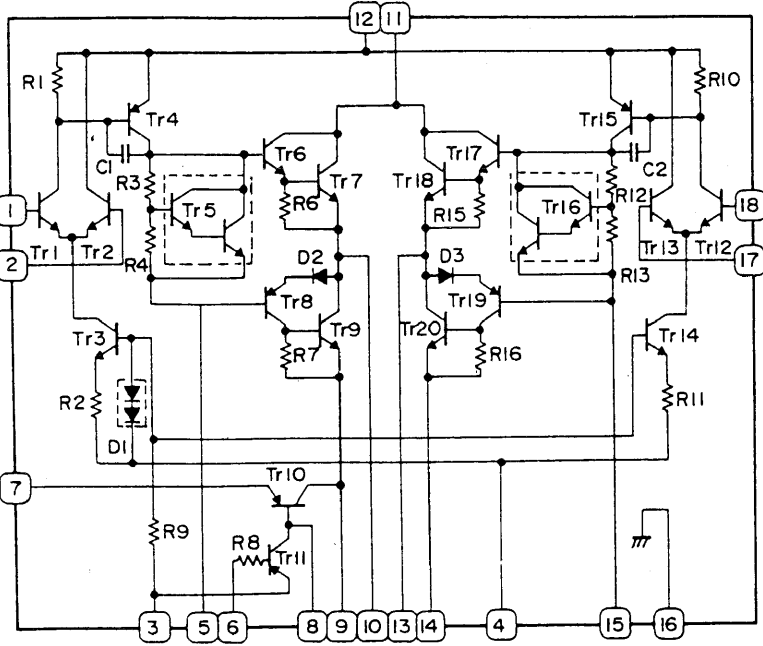
IC,CX1102



IC,LA1265G

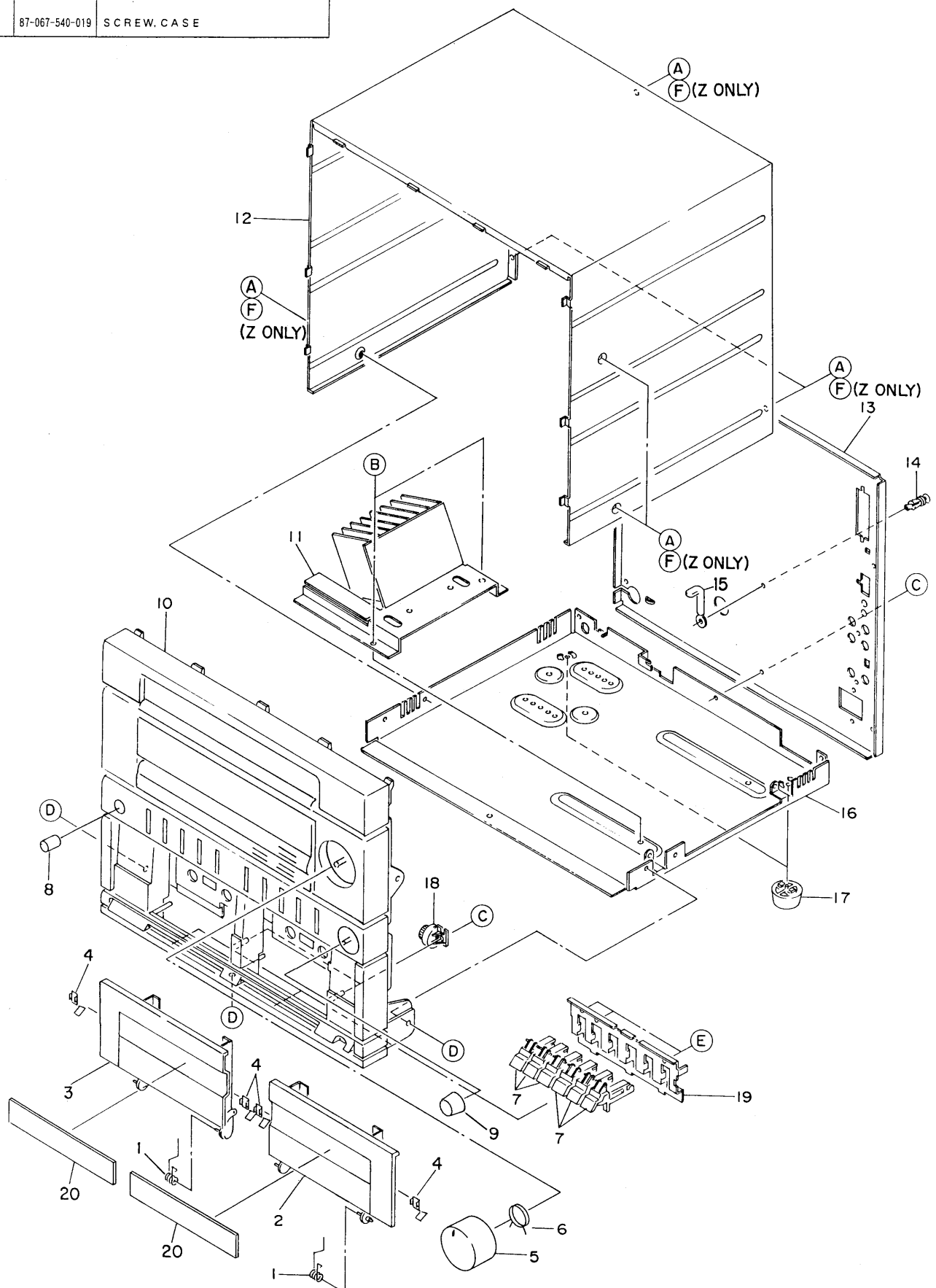


IC, STK4152 II
IC, STK4142 II



EXPLODED VIEW - 1

REF. NO.	PART NO.	DESCRIPTION
A	87-067-641-019	UT T2+3-8 W/O SLOT (B)
B	87-067-566-019	VFT T+3-6
C	87-067-703-019	BVT2+3-10 W/O SLOT
D	87-591-094-419	QIT+3-6
E	87-067-579-019	BVT2+3-8 W/O SLOT
F	87-067-540-019	SCREW CASE



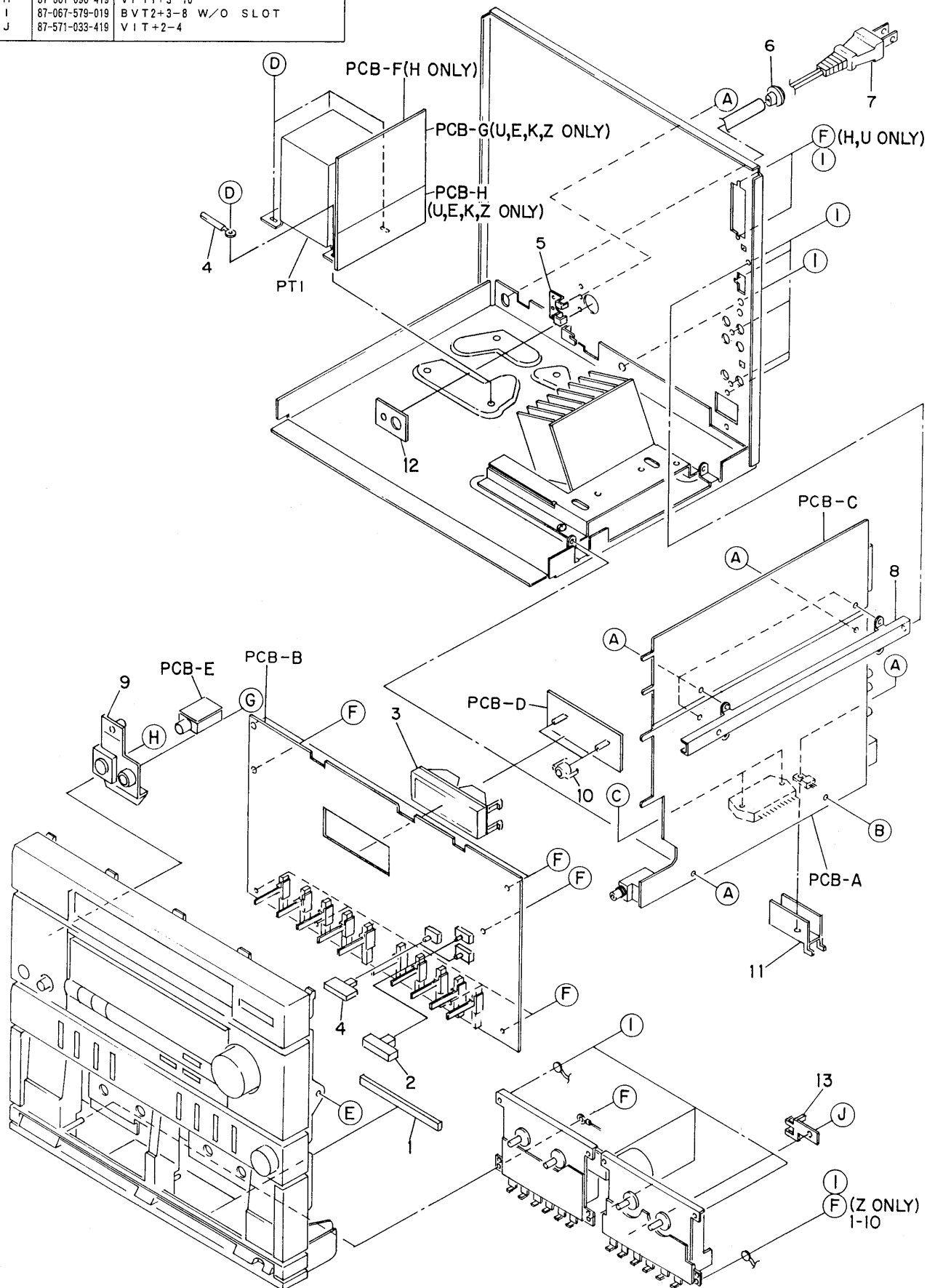
MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-1	★81-631-209-119	T-SPRING, EJECT		2
	1-2	80-MK3-003-019	BOX, CASSETTE 2	※	1
	1-3	80-MK3-002-019	BOX, CASSETTE 1	※	1
	1-4	★81-794-214-010	P-SPRING, CASSETTE BOX		4
	1-5	★80-MK4-011-019	KNOB, VOLUME		1
	1-6	★80-MK4-202-019	T-SPRING, VOLUME		1
	1-7	★80-MK4-010-019	KEY, DECK		12
	1-8	★82-234-018-010	KNOB, BIAS (H, E, K, Z)		1
	1-9	★80-MK4-012-019	KNOB, BBE		1
	1-10	★09-047-629-010	FRONT CABINET ASSY (H)	※	1
	1-10	★09-047-631-010	FRONT CABINET ASSY (U)	※	1
	1-10	★09-047-630-010	FRONT CABINET ASSY (E, K, Z)	※	1
	1-11	---	HEAT SINK		1
	1-12	★80-MK4-021-019	CABINET, STEEL		1
	1-13	★80-MK3-004-019	PANEL, REAR (H)	※	1
	1-13	★80-MK3-005-019	PANEL, REAR (HJ)	※	1
	1-13	★80-MK3-006-019	PANEL, REAR (U)	※	1
※	1-13	★80-MK3-007-019	PANEL, REAR (E)	※	1
→	1-13	★80-MK3-018-019	PANEL, REAR (E)	※	1
	1-13	★80-MK3-008-019	PANEL, REAR (K)	※	1
	1-13	★80-MK3-009-019	PANEL, REAR (Z)	※	1
	1-14	★87-084-077-019	RIVET, NYLON DIA 3.5 - 4.5		1
	1-15	---	BINDER, WIRE		1
	1-16	---	CHASSIS, AMP		1
	1-17	★82-132-010-010	FOOT		2
	1-18	★87-063-143-010	DAMPER, OIL 7.5		2
	1-19	★83-317-202-019	HOLDER, PUSH		2
	1-20	★80-MK4-014-019	WINDOW, BOX 1		2

※The  marked parts are compatible with each other.

EXPLODED VIEW - 2

REF. NO.	PART NO.	DESCRIPTION
A	87-067-688-019	BVT+3-6
B	87-067-633-019	BVT2+3-8 W/CONVEX
C	87-067-581-019	BVT2+3-15 W/O SLOT
D	87-067-566-019	VFT+3-6
E	87-591-094-419	QIT+3-6
F	87-067-703-019	BVT2+3-10 W/O SLOT
G	87-561-096-219	VFT1+3-10 DIA10
H	87-661-096-419	VFT1+3-10
I	87-067-579-019	BVT2+3-8 W/O SLOT
J	87-571-033-419	VIT+2-4

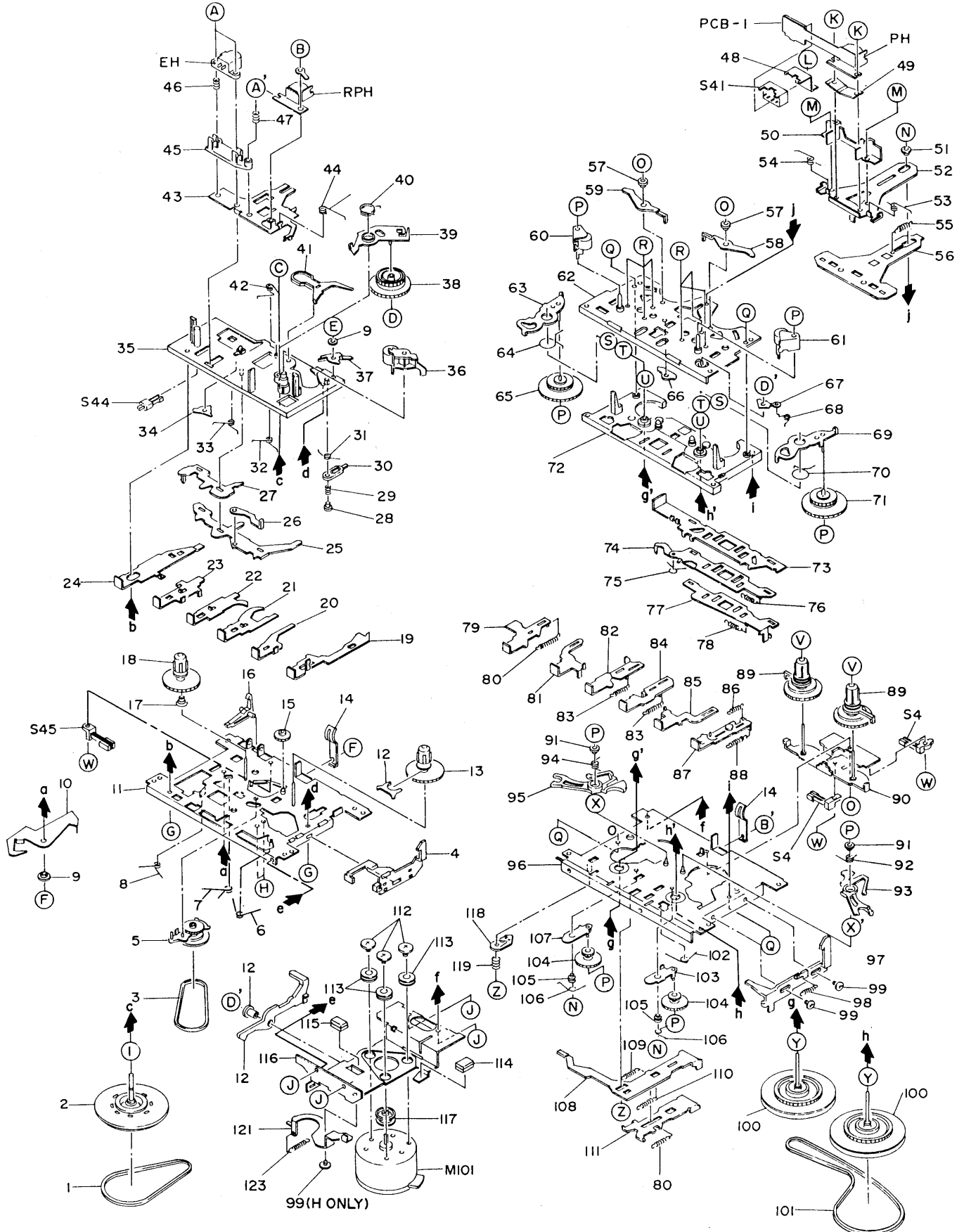


PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q' TY
	2-1	★81-629-210-019	CUSHION, M SQ5-105-5		2
	2-2	★80-MK4-026-019	BUTTON, BBE		1
	2-3	★83-317-204-010	LAMP, HOUSE		1
	2-4	★80-MK4-024-019	BUTTON, TAPE		2
	2-5	★83-317-212-019	HOLDER, VS (H)		1
	2-6	★87-085-185-010	BUSHING, AC CORD (H, E, K, Z)		1
	2-6	★87-085-189-010	BUSHING, AC CORD U (U)		1
	2-7	★87-034-591-019	AC CORD (H)		1
	2-7	★87-034-589-019	AC CORD (U)		1
	2-7	★87-034-592-018	AC CORD (K)		1
	2-7	★87-034-781-018	AC CORD (E, Z)		1
※	2-8	★83-317-201-019	HOLDER, P. C. B (H, U, E)		1
└	2-8	★83-317-216-018	HOLDER, P. C. B (E, K, Z)		1
	2-9	★80-MK4-203-019	PLATE, MIC. (H, E, K, Z)		1
	2-10	★83-317-210-019	GUIDE, LAMP		2
	2-11	---	HEAT SINK		1
	2-12	80-MK4-204-019	COVER, VS (H)		1
	2-13	---	HOLDER, WIRE		1

※The  marked parts are compatible with each other.

EXPLODED VIEW - 3

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
A	S9-223-000-000	SCREW CAP $\oplus$ M2-7.5	K	S9-999-200-070	SCREW M2-4.5	U	S9-786-000-000	PW2-3.5-0.3
B	S9-115-000-000	SCREW $\oplus$ M2-3 BIND	L	S9-692-000-000	SCREW CAMERA S TAPPING M1.7-2.5	V	S9-888-000-000	PW1.2-3-0.4 CUT
C	S9-999-030-130	PW1.45-3.8-0.5 CUT	M	S9-079-000-000	SCREW $\oplus$ M2-6 TAMS	W	S9-181-000-000	SCREW C TAPPING $\oplus$ M2-5
D	S9-422-000-000	PW1.2-3.8-0.3 CUT	N	S9-695-000-000	SCREW CAMERA S TAPPING M1.7-4	X	S9-999-000-090	PW3-8.5-0.13
E	S9-999-200-180	SCREW PS TAPPING M2-3.5	O	S9-693-000-000	SCREW CAMERA S TAPPING 1.7-3	Y	S9-889-000-000	PW2.1-3-0.3
F	S9-178-000-000	SCREW C TAPPING M2-3	P	S9-421-000-000	PW1.2-3-0.25 CUT	Z	S9-876-000-000	PW2.1-5-0.5 CUT
G	S9-679-000-000	SCREW P TAPPING M2-5 BIND	Q	S9-674-000-000	SCREW P TAPPING M2-6	A'	S9-922-000-000	SCREW M2-7 AZIMUTH
H	S9-999-180-090	SCREW CAMERA TAPPING M2-4.5	R	S9-999-130-010	SCREW CAMERA S TAPPING M1.7-8	B'	S9-178-000-000	SCREW M2-3 SPECIAL
I	S9-786-000-000	PW2-3.5-0.3	S	S9-999-000-130	PW1.75-4-0.3	C'	S9-502-000-000	E RING S2.0
J	S9-180-000-000	SCREW C TAPPING M2-4	T	S9-999-030-090	PW1.45-4-0.5 CUT	D'	S9-182-000-000	SCREW C TAPPING $\oplus$ M2-6



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q' TY
	3-1	S1-821-121-730	BELT, MAIN		1
	3-2	S1-921-093-050	FLYWHEEL ASSY		1
	3-3	S1-921-070-110	BELT, RF		1
	3-4	★S1-921-130-020	LEVER, EJECT SLIDE		1
	3-5	★S1-921-073-020	RF CLUTCH ASSY		1
	3-6	★S1-921-140-160	E-SPRING, ACTUATOR		1
	3-7	★S1-821-140-210	SPRING, REC BUTTON LEVER (H)		1
	3-7	★S1-921-140-210	SPRING, REC BUTTON LEVER (U, E, K, Z)		1
	3-8	★S1-921-140-170	P-SPRING, LEVER		1
	3-9	★S1-921-140-370	COLLAR, P ARM		2
	3-10	★S1-921-020-010	ARM, REC		1
	3-11	---	CHASSIS ASSY		1
	3-12	★S1-921-050-060	SENSOR		1
	3-13	S1-921-053-030	TAKE UP REEL ASSY		1
	3-14	★S1-829-100-060	SPRING, PACK		2
	3-15	★S1-821-100-700	GEAR, FF		1
	3-16	★S1-821-100-690	LEVER, RECORD SAFETY		1
	3-17	★S1-821-100-990	SPRING, BACK TENSION		1
	3-18	S1-921-053-040	SUPPLY REEL ASSY		1
	3-19	★S1-921-140-610	LEVER, PAUSE BUTTON		1
	3-20	★S1-921-140-660	LEVER, STOP BUTTON		1
	3-21	★S1-921-140-250	LEVER, FF BUTTON		1
	3-22	★S1-921-140-240	LEVER, REW BUTTON		1
	3-23	★S1-921-140-230	LEVER, PLAY BUTTON		1
	3-24	★S1-921-140-220	LEVER, REC BUTTON		1
	3-25	★S1-921-140-080	ACTUATOR, PUSH BUTTON		1
	3-26	★S1-921-140-640	LEVER, E KICK		1
	3-27	★S1-921-140-090	ACTUATOR, SWITCH		1
	3-28	★S1-921-140-110	STOPPER, PAUSE		1
	3-29	★S1-921-140-120	SPRING, PAUSE LEVER		1
	3-30	★S1-921-140-550	LEVER, PAUSE E (H)		1
	3-30	★S1-921-140-120	LEVER, PAUSE E (U, E, K, Z)		1
	3-31	★S1-921-141-3A0	P-SPRING, CONTROL		1
	3-32	★S1-921-140-150	SPRING, BUTTON LEVER B		1
	3-33	★S1-921-140-140	SPRING, BUTTON LEVER A		1
	3-34	★S1-921-140-200	STOPPER, PR		1
	3-35	★S1-921-143-16W	BASE ASSY		1
	3-36	S1-921-043-040	PINCH ROLLER ARM ASSY		1
	3-37	★S1-921-140-340	ARM, P		1
	3-38	★S1-921-260-020	GEAR, CAM		1
	3-39	★S1-921-260-500	GEAR PLATE ASSY (H)		1
	3-39	★S1-921-265-020	GEAR PLATE ASSY (U, E, K, Z)		1
	3-40	★S1-921-260-050	SPRING, GEAR PLATE		1
	3-41	★S1-921-260-4A0	LEVER, SENSING		1
	3-42	★S1-921-140-180	SPRING, M CONTROL		1
	3-43	★S1-921-030-140	PANEL, HEAD		1
	3-44	★S1-921-030-090	P-SPRING, PANEL		1
	3-45	★S1-921-030-6A0	BASE, HEAD		1
	3-46	★S1-821-030-080	SPRING, E, H		1
	3-47	★S1-821-030-070	SPRING, AZIMUTH		1
	3-48	★S1-851-160-010	BRACKET, SWITCH		1
	3-49	★S1-851-040-050	PLATE, HEAD SPRING		1
	3-50	★S1-851-040-520	GUIDE, TAPE		1
	3-51	★S1-851-040-040	COLLAR, H, P		1
	3-52	★S1-851-040-010	PANEL, HEAD		1
	3-53	★S1-851-040-060	SPRING, PINCH ROLLER F		1
	3-54	★S1-851-040-070	SPRING, PINCH ROLLER R		1
	3-55	★S1-851-040-090	SPRING, R, C PLATE		1
	3-56	★S1-851-040-020	PLATE, R, C		1
	3-57	★S1-851-180-070	COLLAR, CONTROL ARM		2

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	3-58	★S1-851-180-050	ARM,AUTO CONTROL F		1
	3-59	★S1-851-180-060	ARM,AUTO CONTROL R		1
	3-60	S1-851-105-040	PINCH ROLLER R ASSY		1
	3-61	S1-851-095-040	PINCH ROLLER F ASSY		1
	3-62	★S1-851-183-010	SUB CHASSIS ASSY		1
	3-63	★S1-851-063-010	T GEAR ARM R ASSY		1
	3-64	★S1-851-060-030	SPRING,T GEAR ARM R		1
	3-65	★S1-851-060-020	GEAR,T CAM R		1
	3-66	★S1-851-180-040	ARM,RC		1
	3-67	★S1-851-030-010	ARM,TURN OVER		1
	3-68	★S1-851-030-020	SPRING,TURN OVER		1
	3-69	★S1-851-053-010	T GEAR ARM F ASSY		1
	3-70	★S1-851-050-040	SPRING,T GEAR ARM F		1
	3-71	★S1-851-050-030	GEAR,T CAM F		1
	3-72	★S1-851-025-010	BUTTON BASE ASSY		1
	3-73	★S1-851-020-170	PLATE,SLIDE		1
	3-74	★S1-851-023-010	ACTUATOR,LOCK		1
	3-75	★S1-851-020-200	SPRING,LOCK RELEASE		1
	3-76	★S1-851-020-250	SPRING,LOCK ACTUATOR		1
	3-77	★S1-851-023-020	SWITCH ACTUATOR ASSY		1
	3-78	★S1-851-020-260	SPRING,SWITCH ACTUATOR		1
	3-79	★S1-851-023-090	MODE BUTTON LEVER ASSY		1
	3-80	★S1-851-020-240	SPRING,PROG BUTTON LEVER		2
	3-81	★S1-851-020-320	LEVER,PLAY BUTTON		1
	3-82	★S1-851-020-350	LEVER,FF BUTTON R		1
	3-83	★S1-851-020-240	SPRING,FF BUTTON LEVER		2
	3-84	★S1-851-020-340	LEVER,FF BUTTON		1
	3-85	★S1-851-020-310	LEVER,STOP BUTTON		1
	3-86	★S1-851-020-270	SPRING,PULL ARM		1
	3-87	★S1-851-023-040	PROG BUTTON LEVER ASSY		1
	3-88	★S1-851-020-220	SPRING,BUTTON LEVER		1
	3-89	S1-851-115-010	REEL ASSY		2
	3-90	★S1-851-113-010	REEL PLATE ASSY		1
	3-91	★S1-851-200-050	STOPPER,SPRING		2
	3-92	★S1-851-200-030	SPRING,AUTO LEVER R		1
	3-93	★S1-851-200-010	LEVER,AUTO F		1
	3-94	★S1-851-200-040	SPRING,AUTO LEVER F		1
	3-95	★S1-851-200-020	LEVER,AUTO R		1
	3-96	---	CHASSIS ASSY		1
	3-97	★S1-851-170-030	LEVER,EJECT SLIDE		1
	3-98	★S1-851-170-020	SPRING,EJECT SLIDE LEVER		1
	3-99	★S1-821-120-230	SCREW,PK COLLAR A		3(H) 2(U, E, K, Z)
	3-100	S1-851-125-050	FLYWHEEL ASSY		2
	3-101	S1-821-121-420	BELT,MAIN		1
	3-102	★S1-851-020-210	SPRING,STOP BUTTON LEVER		1
	3-103	★S1-851-073-010	FF GEAR ARM F ASSY		1
	3-104	★S1-851-070-030	GEAR,FF		2
	3-105	★S1-851-070-050	COLLAR,FF GEAR ARM		2
	3-106	★S1-851-070-040	SPRING,FF GEAR ARM F		2
	3-107	★S1-851-083-010	FF GEAR ARM R ASSY		1
	3-108	★S1-851-040-080	PLATE,RELEASE		1
	3-109	★S1-851-020-420	SPRING,BUTTON LEVER P		1
	3-110	★S1-851-040-100	SPRING,R.C		1
	3-111	★S1-851-160-020	PLATE,FF SWITCH		1
	3-112	★S1-851-140-180	SCREW,MOTOR COLLAR		3

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q' TY
	3-113	★S1-821-120-660	RUBBER, MOTOR		3
	3-114	★S1-821-121-090	MAT, FELT		1
	3-115	★S1-800-100-840	MAT, FELT		1
	3-116	★S1-851-140-070	BRACKET, MOTOR		1
	3-117	★S1-851-140-300	PULLEY, MOTOR		1
	3-118	★S1-821-010-150	LEVER, PAUSE (U, E, K, Z)		1
	3-119	★S1-821-010-160	SPRING, PAUSE LEVER (U, E, K, Z)		1
	3-120	★S1-921-120-250	LEVER, P KICK B (H)		1
	3-121	★S1-851-140-060	LEVER, P KICK A (H)		1
	3-122	★S1-821-120-650	COLLAR, SCREW B (H)		1
	3-123	★S1-851-140-040	SPRING, P KICK LEVER (H)		1

■ SPEAKER LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q , TY
	1	★ 89-MS7-012-010	PANEL W (71) (E,K,Z)	※	2
	2	★ 89-MS7-001-010	PANEL W (76) (U)	※	2
	3	★ 80-MS2-001-010	PANEL W (767) (H)	※	2
	4	★ 89-MS7-002-010	PANEL M (71) (E,K,Z)	※	2
	5	★ 89-MS7-002-010	PANEL M (76) (U)	※	2
	6	★ 80-MS5-002-010	PANEL M (767) (H)		2
	7	★ 89-MS7-003-010	PANEL T (76) (U)	※	2
	8	★ 80-MS2-003-010	PANEL T (767) (E,K,Z)	※	2
	9	★ 80-MS2-006-010	DUCT,S	※	2
	10	★ 83-324-004-010	GRILL FRAME ASSY (71) (E,K,Z)		2
	11	★ 83-315-003-010	GRILL FRAME ASSY (76) (U)		2
	12	★ 83-323-010-010	GRILL FRAME ASSY (767) (H)		2
	13	83-324-609-010	SPEAKER W (71) (E,K,Z)		2
	14	80-MS2-601-010	SPEAKER W (76) (U)	※	2
	15	89-MS7-601-010	SPEAKER W (767) (H)	※	2
	16	83-324-605-010	SPEAKER T (71) (E,K,Z)		2
	17	89-MS6-603-010	SPEAKER T (76) (U)	※	2
	18	89-MS6-603-010	SPEAKER T (767) (H)	※	2
	19	81-654-605-010	SPEAKER CERAMIC (767) (H)		2
	20	★ 87-010-005-010	CAP,ELECT 2.2		2
	21	★ 83-082-041-010	CORD BUSH		2
	22	★ 83-096-614-010	SPEAKER CORD		2

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q , TY
	1	★ 80-MK3-903-019	INSTRUCTION BOOKLET, H (H,U,E)	※	1
	2	★ 80-MK3-904-018	INSTRUCTION BOOKLET, E (E,K,Z)	※	1
	3	★ 81-653-645-010	AM-LOOP ANT (6T) NC (H,U,Z)		1
	4	★ 81-653-647-010	AM-LOOP ANT (6T) CON (E,K)		1
	5	★ 80-MK3-951-019	REMOTE UNIT RC-T71YBN	※	1
	6	★ 81-748-632-010	FEEDER ANT,FM N (H,U,E)		1
	6	★ 81-748-632-018	FEEDER ANT,FM N (E,K)		1
	7	★ 87-043-106-019	FM WIRE ANT (Z)		1
	8	★ 87-042-062-010	PLUG, ADAPTOR S-16115 (H)		1