

ICF-M400L

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

	FM	MW	LW
Frequency range	87.5 – 108 MHz	531 – 1,602 kHz	153 – 281 kHz
Tuning interval	50 kHz	9 kHz	2 kHz → 7 kHz

Antennas	FM : Telescopic antenna MW/LW: Built-in ferrite bar antenna
Speaker	Approx. 9.2 cm (3 ⁵ / ₈ inches) dia.
Power output	250 mW (at 10% harmonic distortion)
Output	Earphone jack (minijack) for 8-ohm earphone
Power requirements	6 V DC with four R6 (size AA) batteries 240 V AC, 50 Hz (model for U.K.) or 220 V AC, 50 Hz (models for other countries)
Battery life	Approx. 28 hours of listening for four hours a day at a normal volume using Sony batteries SUM-3 (NS)
Dimensions	Approx. 241 × 124 × 62 mm (w/h/d) (9 ¹ / ₂ × 5 × 2 ¹ / ₂ inches) incl. projecting parts and controls
Weight	Approx. 950 g (2 lb 1 oz) incl. batteries

Supplied accessory
AC power cord (1)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.



Features

- A quartz-controlled PLL (Phase Locked Loop) synthesizer system using a microcomputer for easy pinpoint tuning.
The tuned-in frequency is digitally displayed.
- Up to 5 stations in each band can be preset.
- Two alarm modes available: radio or buzzer
- Digital clock is built-in. The current time and alarm time are digitally displayed.
- A sleep timer turns the radio off automatically at the preset time.

- Two different power sources: batteries and house current

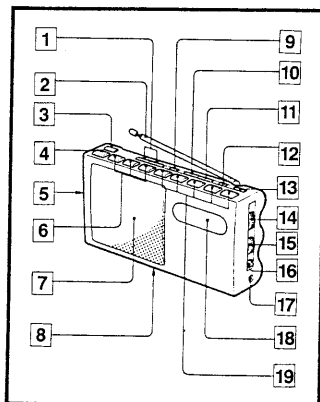
**FM/MW/LW 3 BAND
PLL SYNTHESIZED RECEIVER**
SONY®

SAFETY-RELATED COMPONENT WARNING!!


COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

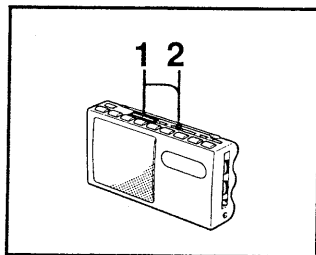
Location of Controls



Location of Controls

- 1 SCAN/TIME ADJ (adjustment) +/- buttons
- 2 Telescopic antenna
- 3 SLEEP button
- 4 OFF button
- 5 AC IN jack (left side)
- 6 POWER ON/BAND FM/MW/LW buttons
- 7 Speaker
- 8 Battery compartment (bottom)
- 9 ENTER button
- 10 TIME SET CLOCK button
- 11 ALARM button
- 12 ALARM mode selector (RADIO/BUZZER)
- 13 ALARM SET button
- 14 VOLUME control
- 15 TONE control
- 16 SENS DX/LOCAL selector
- 17  (earphone) jack
- 18 Display window
- 19 PRESET TUNING buttons

How to Set the Clock



How to Set the Clock

- 1 Keep the TIME SET CLOCK button pressed, and then press the TIME ADJ + or - button repeatedly.

When the + or - button is kept pressed, the digits are rapidly advanced.

- 2 Release the TIME SET CLOCK button.

The clock will begin to operate.

- The current time can be set even when the radio is on.
- The current time is displayed when the radio is off.

12-hour system model (for U.K.)

AM 12:00 = Midnight
PM 12:00 = Noon

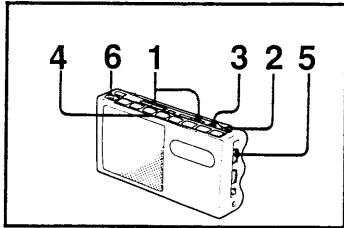
24-hour system model (for other countries)

0:00 = Midnight
12:00 = Noon

To set the time exactly to the second with a telephone time signal
Example: to set to 7:15 to the second

- 1 Set the time to 7:15 and keep the TIME SET CLOCK button pressed.
- 2 Release the TIME SET CLOCK button simultaneously with the telephone time signal.

J To Set the Alarm Time

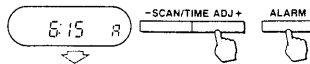


J To Set the Alarm Time

Radio alarm (6 steps)	Buzzer alarm (3 steps)
<p>1 Set the alarm time. Keep the ALARM button pressed, and then press the TIME ADJ + or - button.</p>	
<p>2 Press the ALARM SET button so that the "A" indication is displayed. The unit will be in the alarm standby mode.</p>	
<p>3 Set the ALARM mode selector to RADIO.</p>	<p>3 Set the ALARM mode selector to BUZZER. The buzzer alarm comes on even when the radio is on. The radio will be turned off.</p>
<p>4 Tune in the desired station.</p>	
<p>5 Adjust the volume.</p>	
<p>6 Press the OFF button.</p>	

K

When the alarm time is set.



When the ALARM SET button is pressed.



When the alarm time is set, the "A" indication is displayed.

Current time or tuned-in station frequency

The display varies according to countries. (These illustrations show the display of the 24-hour system model.)

K Example: To set to 6:15

The radio or buzzer alarm will automatically come on at the preset time, and turn itself off after about 60 minutes.

To stop the radio or buzzer alarm

Press the OFF button. The alarm sound will come on again at the same time next day.

To cancel the alarm before the preset time
Press the ALARM SET button so that the "A" indication disappears.

L



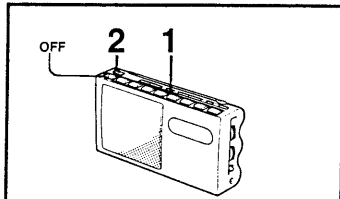
L To check the alarm preset time

Press the ALARM button. The alarm preset time and "A" indication is displayed on the display window. When the button is released, the previous display will resume.

Notes

- Be sure not to forget to press the ALARM SET button, or the alarm sound will not come on.
- The buzzer alarm level is fixed, and has no relation to the VOLUME control setting.

M To Turn Off the Radio Automatically at the Preset Time—Sleep Timer

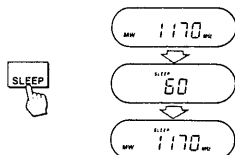


M To Turn Off the Radio Automatically at the Preset Time—Sleep Timer

- 1 Tune in the desired station.
- 2 Set the sleep timer (90, 60 or 30 minutes), by pressing SLEEP.

The radio will be turned off automatically after the preset time.

N



N Example: to set the timer to 60 minutes

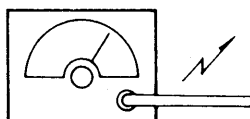
To turn off the radio before the preset time
Press the OFF button.

SECTION 2 ADJUSTMENTS

AM Section

0 dB=1 μ V

AM RF signal generator

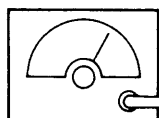


Put the lead-wire antenna close to the set.

400 Hz, 30% AM modulation
Output level: as low as possible

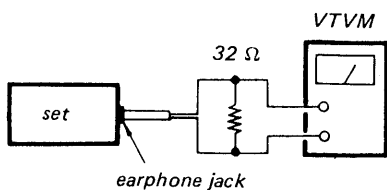
FM Section

FM RF signal generator



telescopic antenna input lead-wire

400 Hz, 30% FM modulation
frequency deviation ± 22.5 kHz
Output level: as low as possible



earphone jack

- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT

Adjust for a maximum reading on VTVM.

T1	450 kHz
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MW VCO ADJUSTMENT

Adjustment Part	Frequency Display	Reading on Digital Voltmeter ①.
L5	1,602 kHz	8.4 ± 0.1 V

Note: Not use the AM rf signal generator in this adjustment.

MW TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L2-2	621 kHz
CT2	1,395 kHz

LW VCO ADJUSTMENT

Adjustment Part	Frequency Display	Reading on Digital Voltmeter ①.
CT4	279 kHz	7 ± 0.1 V

Note: Not use the AM rf signal generator in this adjustment.

LW TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L2-1	171 kHz
CT1	252 kHz

FM VCO ADJUSTMENT

Adjustment Part	Frequency Display	Reading on Digital Voltmeter ①.
L4	108 MHz	8 ± 0.1 V

Note: Not use the FM rf signal generator in this adjustment.

FM TRACKING ADJUSTMENT

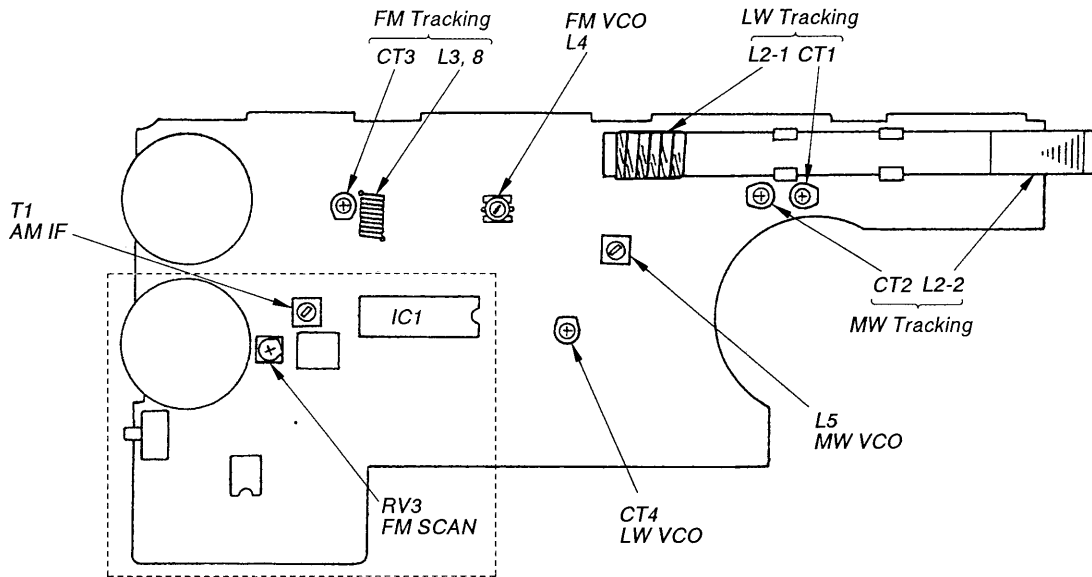
Adjust for a maximum reading on VTVM.

L3, 8	87.5 MHz
CT3	108 MHz

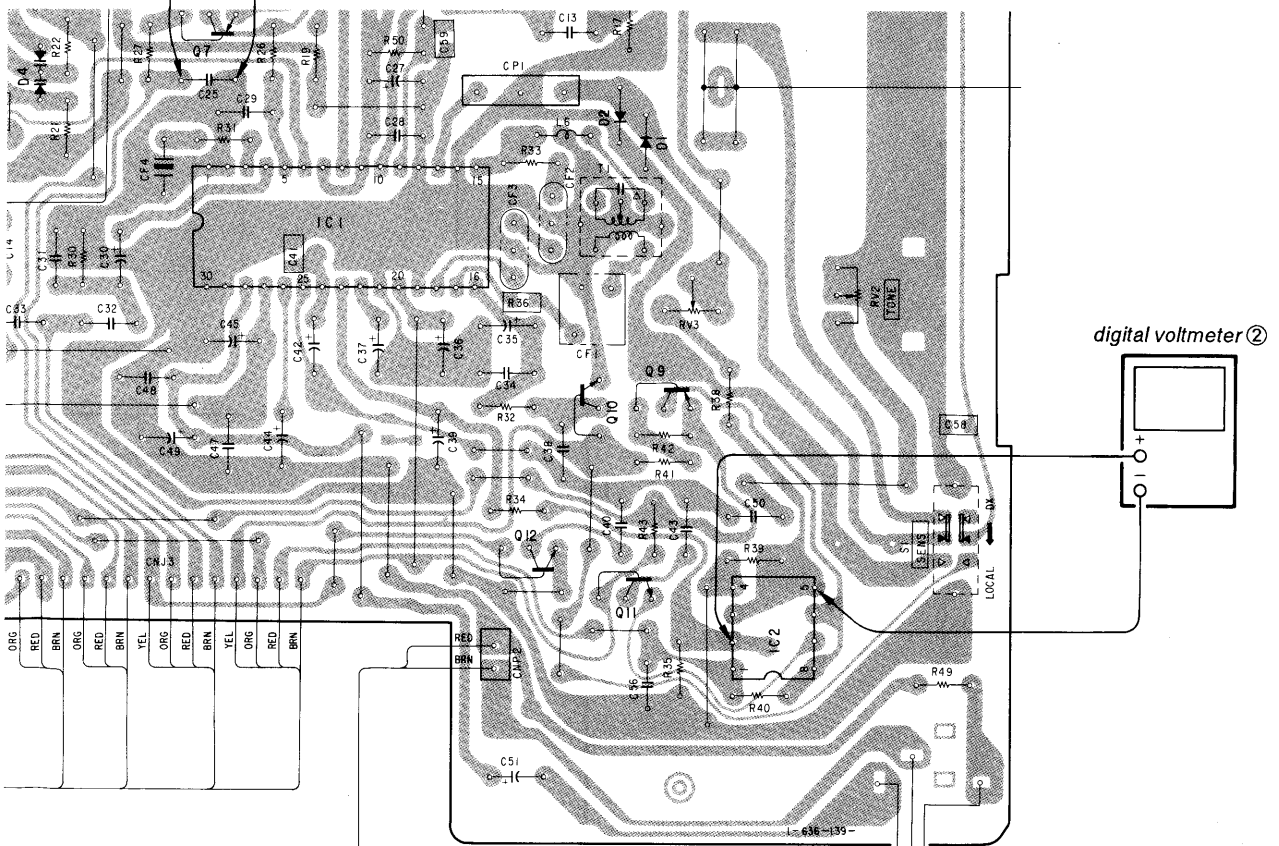
FM SCAN ADJUSTMENT

FM rf signal generator	Modulation	no modulation
	Carrier frequency	98.025 MHz
	Output level	501 μ V (54 dB)
Adjustment Part	Frequency Display	Reading on Digital Voltmeter ②.
RV3	98.00 MHz	0 V

• Adjustment Location



digital voltmeter ①



SECTION 3
DIAGRAMS

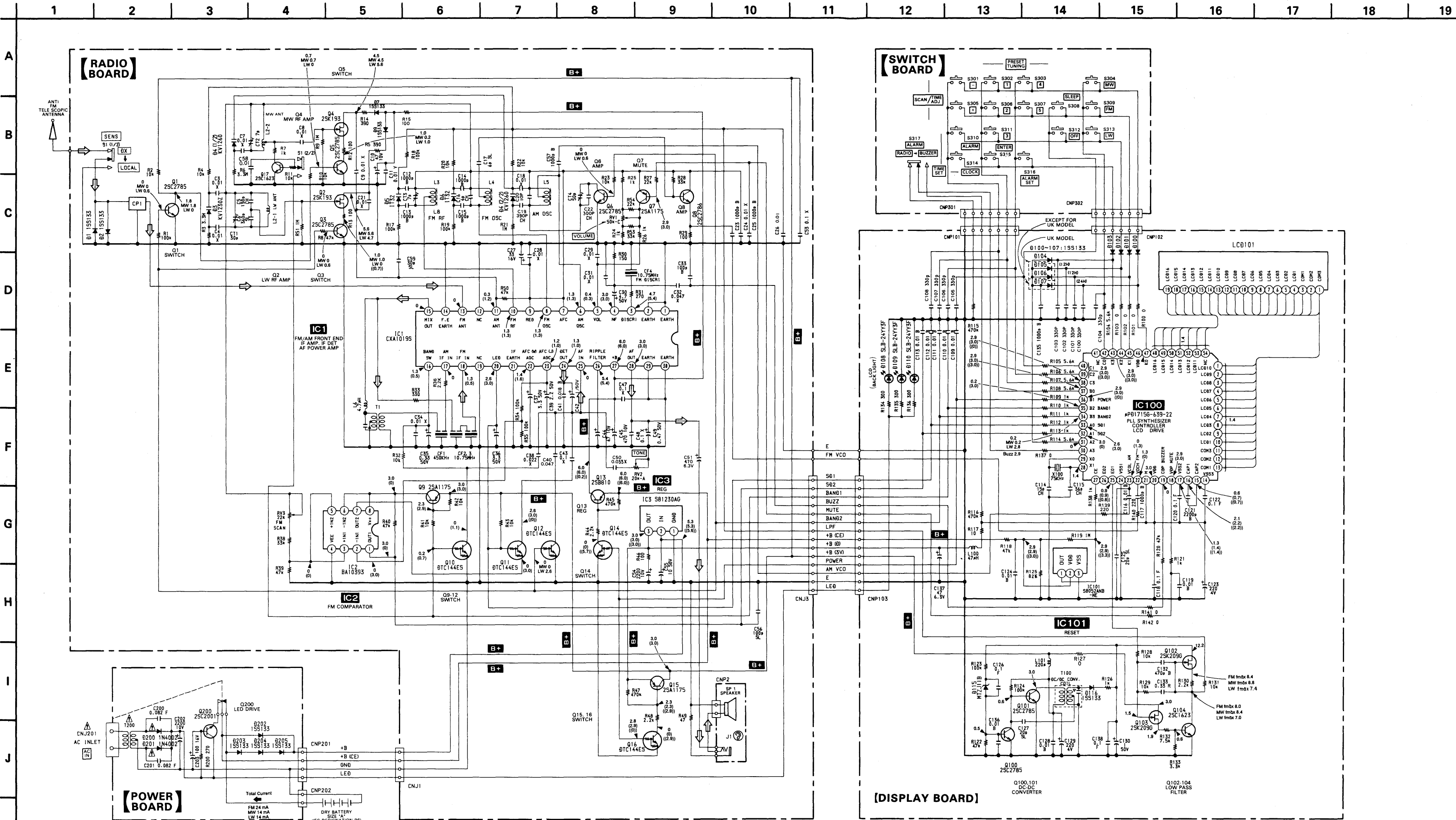
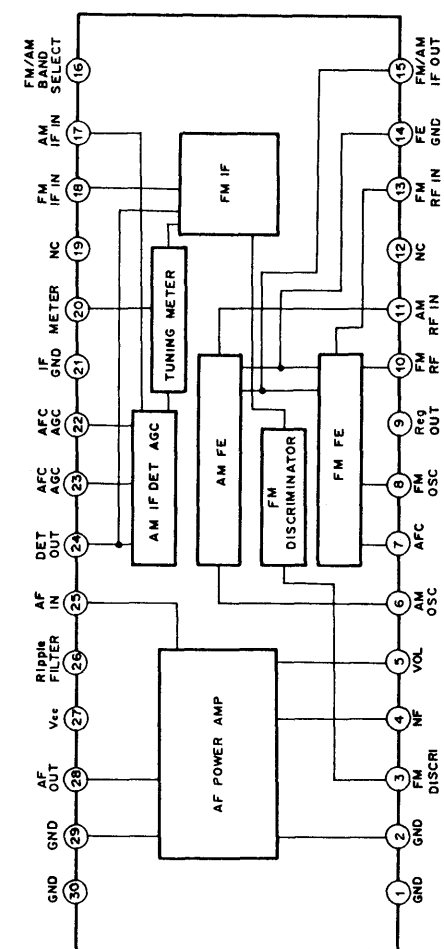
3-1. SCHEMATIC DIAGRAM

- Note:
- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.

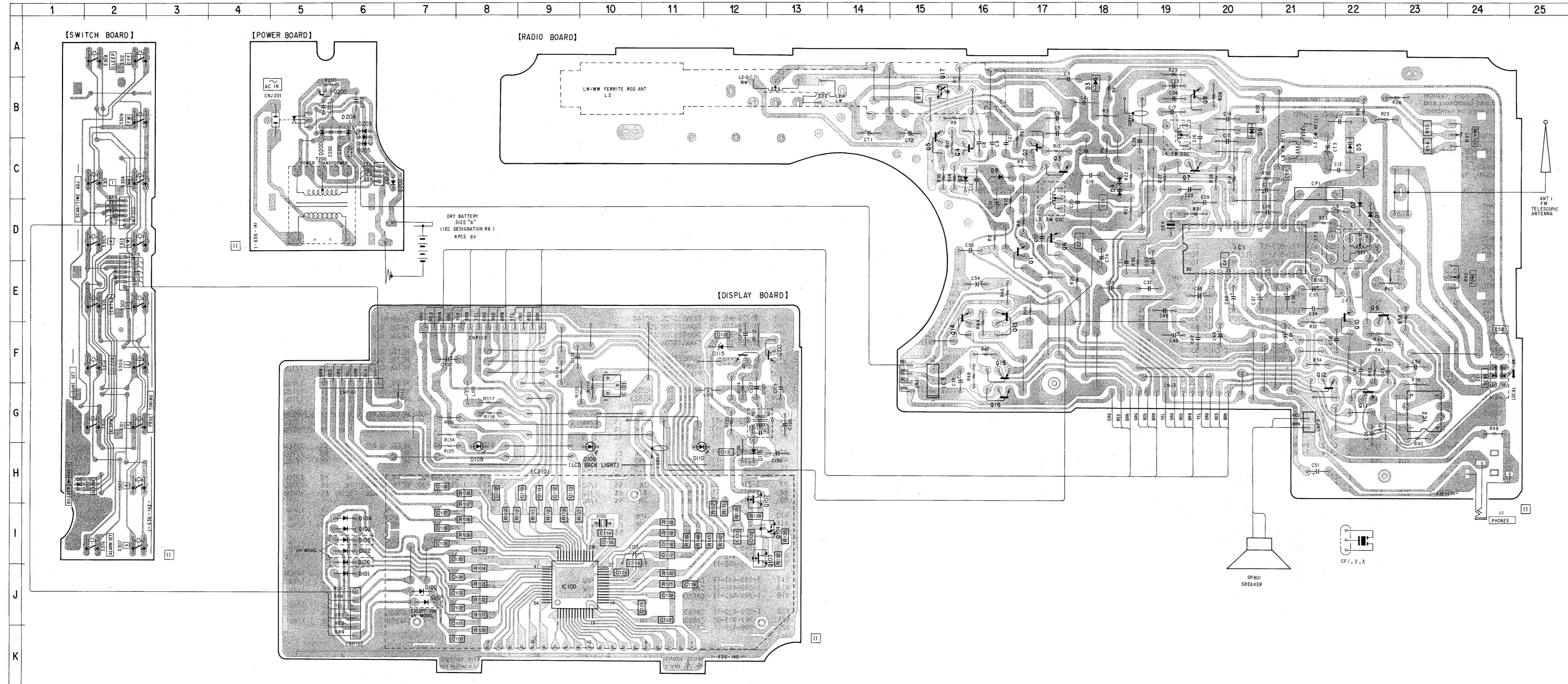
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- B+** : B+ Line.
- Power voltage is dc 6 V and fed with regulated dc power supply from battery terminal.
- Voltagcs and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- () : AM
- () : OFF mode
- Voltagcs are taken with a VOM (10 M Ω /V).
- Voltagc variations may be noted due to normal production tolerances.
- Signal path.
- \rightarrow : FM

IC1 CXA1019S



3-2. PRINTED WIRING BOARDS

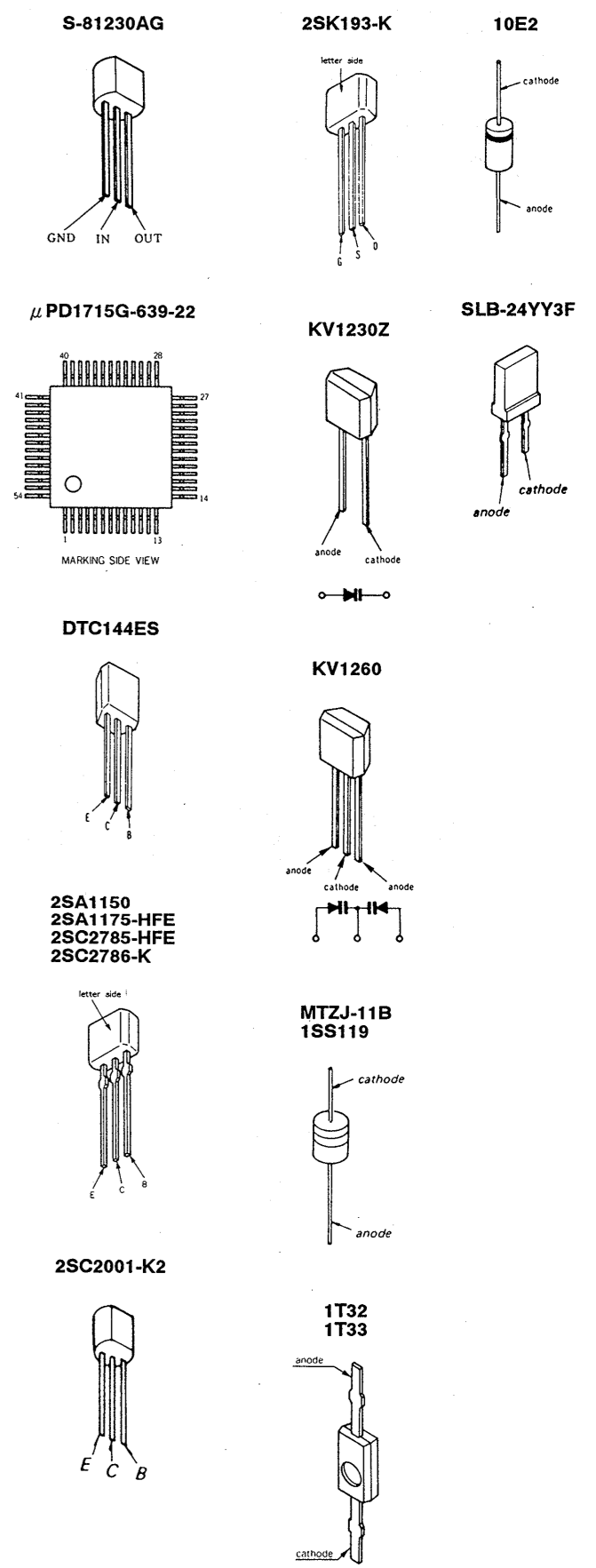


• Semiconductor Location

Ref. No.	Location
D1	D-22
D2	D-22
D3	B-16
D4	C-18
D5	C-22
D6	B-20
D7	C-16
D9	C-16
D100	J-7
D101	J-6
D102	I-6
D103	I-6
D104	I-6
D105	I-6
D106	I-6
D107	J-7
D108	H-8
D109	H-10
D110	H-11
D115	F-12
D116	H-12
D200	B-5
D201	B-6
D202	C-6
D203	B-6
D204	B-6
D205	C-6
IC1	D-20
IC2	G-23
IC3	F-15
IC100	J-9
IC101	G-10
Q1	D-17
Q2	C-17
Q3	C-17
Q4	C-16
Q5	C-15
Q6	D-17
Q7	C-19
Q8	B-19
Q9	E-22
Q10	E-22
Q11	G-22
Q12	F-21
Q13	E-16
Q14	E-16
Q15	F-16
Q16	G-16
Q17	B-15
Q100	F-13
Q101	F-12
Q102	H-12
Q103	I-12
Q104	I-13
Q200	B-5



Note:
 • ○ : parts extracted from the component side.
 • □ : indicates side identified with part number.

• Semiconductor Lead Layouts



Ref.No.	Part No.	Description			
C132	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C133	1-164-006-11	CERAMIC CHIP	0.33MF	10%	16V
C135	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C136	1-162-839-11	CERAMIC	0.01MF	10%	16V
C137	1-126-154-11	ELECT	47MF	20%	6.3V
C138	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C200	1-162-850-11	CERAMIC	0.082MF	10%	16V
C201	1-162-850-11	CERAMIC	0.082MF	10%	16V
C202	1-124-556-11	ELECT	2200MF	20%	16V
C203	1-126-101-11	ELECT	100MF	20%	16V
CF1	1-567-777-11	FILTER, CERAMIC			
CF2	1-577-325-61	FILTER, CERAMIC			
CF3					
CF4					
CNJ2	*1-563-470-11	HOUSING, CONNECTOR	2P		
CNJ201	*1-526-838-11	INLET, AC	2P (AC IN)		
CNP1	*1-506-986-11	PIN, CONNECTOR (PC BOARD)	4P		
CNP2	*1-506-984-11	PIN, CONNECTOR (PC BOARD)	2P		
CNP101	*1-566-004-11	PIN, CONNECTOR (PC BOARD)	7P		
CNP102	*1-566-003-11	PIN, CONNECTOR (PC BOARD)	6P		
CNP103	*1-506-996-11	PIN, CONNECTOR (PC BOARD)	14P		
CNP201	*1-506-986-11	PIN, CONNECTOR (PC BOARD)	4P		
CPI	1-235-171-00	FILTER, BAND PASS			
CT1	1-141-245-00	TRIMMER, CERAMIC			
CT2	1-141-229-00	CAP, TRIMMER			
CT3	1-141-229-00	CAP, TRIMMER			
CT4	1-141-260-00	TRIMMER, CERAMIC			
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D3	8-719-927-77	DIODE KV1230Z			
D4	8-719-936-68	DIODE KV1260			
D5	8-719-949-46	DIODE 1T32			
D6	8-719-949-46	DIODE 1T32			
D7	8-719-911-19	DIODE 1SS119			
D9	8-719-911-19	DIODE 1SS119			
D100	8-719-911-19	DIODE 1SS119			
D101	8-719-911-19	DIODE 1SS119			
D102	8-719-911-19	DIODE 1SS119			
D103	8-719-911-19	DIODE 1SS119			
D104	8-719-911-19	DIODE 1SS119			
D105	8-719-911-19	(UK)...DIODE 1SS119			
D106	8-719-911-19	(UK)...DIODE 1SS119			
D107	8-719-911-19	(EXCEPT FOR UK)...DIODE 1SS119			
D108	8-719-988-06	DIODE SLB-24YY3F			
D109	8-719-988-06	DIODE SLB-24YY3F			
D110	8-719-988-06	DIODE SLB-24YY3F			
D115	8-719-921-80	DIODE MTZJ-11B			
D116	8-719-911-19	DIODE 1SS119			
D200	8-719-200-02	DIODE 10E2			
D201	8-719-200-02	DIODE 10E2			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-911-19	DIODE 1SS119			
D204	8-719-911-19	DIODE 1SS119			
D205	8-719-911-19	DIODE 1SS119			
IC1	8-752-035-29	IC CXA1019S			
IC2	8-759-987-91	IC BA10393			
IC3	8-759-937-61	IC S-81230AG			

Ref.No.	Part No.	Description			
IC100	8-759-151-71	IC UPD1715G-639-22			
IC101	8-759-945-21	IC S-8052ANB-NE-S			
J1	1-563-836-21	JACK (EARPHONE)			
L1	1-410-316-11	INDUCTOR	1UH		
L2	1-402-513-11	BAR ANT(MW/LW)			
L3	*1-422-121-00	COIL, AIR-CORE			
L4	1-460-004-11	COIL (WITH CORE)			
L5	1-406-253-11	COIL (OSC)			
L6	1-410-324-11	INDUCTOR	4.7UH		
L8	*1-422-121-00	COIL, AIR-CORE			
L100	1-408-417-00	INDUCTOR	47UH		
L101	1-410-336-11	INDUCTOR	220UH		
LCD101	1-809-113-11	DISPLAY PANEL, LIQUID CRYSTAL			
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q2	8-729-119-35	TRANSISTOR 2SK193-K			
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q4	8-729-119-35	TRANSISTOR 2SK193-K			
Q5	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q7	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q8	8-729-178-63	TRANSISTOR 2SC2786-K			
Q9	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q10	8-729-900-89	TRANSISTOR DTC144ES			
Q11	8-729-900-89	TRANSISTOR DTC144ES			
Q12	8-729-900-89	TRANSISTOR DTC144ES			
Q13	8-729-205-02	TRANSISTOR 2SA1150			
Q14	8-729-900-89	TRANSISTOR DTC144ES			
Q15	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q16	8-729-900-89	TRANSISTOR DTC144ES			
Q17	8-729-100-66	TRANSISTOR 2SC1623			
Q100	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q102	8-729-220-93	TRANSISTOR 2SK209G			
Q103	8-729-220-93	TRANSISTOR 2SK209G			
Q104	8-729-100-66	TRANSISTOR 2SC1623			
Q200	8-729-100-13	TRANSISTOR 2SC2001-K2			
R1	1-249-441-11	CARBON	10K	5%	1/4W
R2	1-249-429-11	CARBON	10K	5%	1/4W
R3	1-259-882-11	CARBON	3.3M	5%	1/4W
R4	1-249-429-11	CARBON	10K	5%	1/4W
R5	1-249-412-11	CARBON	390	5%	1/4W
R6	1-259-882-11	CARBON	3.3M	5%	1/4W
R7	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R8	1-249-437-11	CARBON	47K	5%	1/4W
R9	1-247-903-00	CARBON	1M	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R11	1-249-429-11	CARBON	10K	5%	1/4W
R12	1-249-405-11	CARBON	100	5%	1/4W
R13	1-249-405-11	CARBON	100	5%	1/4W
R14	1-249-412-11	CARBON	390	5%	1/4W
R15	1-249-405-11	CARBON	10	5%	1/4W
R17	1-249-441-11	CARBON	100K	5%	1/4W
R18	1-249-441-11	CARBON	100K	5%	1/4W
R19	1-249-441-11	CARBON	100K	5%	1/4W
R20	1-249-429-11	CARBON	10K	5%	1/4W
R21	1-247-903-00	CARBON	1M	5%	1/4W
R22	1-249-429-11	CARBON	10K	5%	1/4W



Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description				
R23	1-249-429-11	CARBON	10K	5%	1/4W	
R24	1-249-417-11	CARBON	1K	5%	1/4W	
R25	1-249-417-11	CARBON	1K	5%	1/4W	
R26	1-249-417-11	CARBON	1K	5%	1/4W	
R27	1-249-433-11	CARBON	22K	5%	1/4W	
R28	1-249-435-11	CARBON	33K	5%	1/4W	
R29	1-249-405-11	CARBON	100	5%	1/4W	
R30	1-249-407-11	CARBON	150	5%	1/4W	
R31	1-249-410-11	CARBON	270	5%	1/4W	
R32	1-249-429-11	CARBON	10K	5%	1/4W	
R33	1-249-411-11	CARBON	330	5%	1/4W	
R34	1-249-441-11	CARBON	100K	5%	1/4W	
R35	1-249-441-11	CARBON	100K	5%	1/4W	
R36	1-249-421-11	CARBON	2.2K	5%	1/4W	
R38	1-249-435-11	CARBON	33K	5%	1/4W	
R39	1-249-437-11	CARBON	47K	5%	1/4W	
R40	1-249-437-11	CARBON	47K	5%	1/4W	
R41	1-249-429-11	CARBON	10K	5%	1/4W	
R42	1-249-429-11	CARBON	10K	5%	1/4W	
R43	1-249-429-11	CARBON	10K	5%	1/4W	
R44	1-249-421-11	CARBON	2.2K	5%	1/4W	
R45	1-247-895-00	CARBON	470K	5%	1/4W	
R46	1-249-405-11	CARBON	100	5%	1/4W	
R47	1-247-895-00	CARBON	470K	5%	1/4W	
R48	1-249-421-11	CARBON	2.2K	5%	1/4W	
R49	1-249-401-11	CARBON	47	5%	1/4W	
R50	1-249-437-11	CARBON	47K	5%	1/4W	
R51	1-247-903-00	CARBON	1M	5%	1/4W	
R53	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R54	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R100	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R101	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R102	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R103	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R104	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R105	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R106	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R107	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R108	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R109	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R110	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R111	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R112	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R113	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R114	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R115	1-247-895-00	CARBON	470K	5%	1/4W	
R116	1-247-895-00	CARBON	470K	5%	1/4W	
R117	1-249-393-11	CARBON	10	5%	1/4W	
R118	1-249-437-11	CARBON	47K	5%	1/4W	
R119	1-247-903-00	CARBON	1M	5%	1/4W	
R120	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R121	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R122	1-249-437-11	CARBON	47K	5%	1/4W	
R123	1-249-441-11	CARBON	100K	5%	1/4W	
R124	1-249-441-11	CARBON	100K	5%	1/4W	
R125	1-249-440-11	CARBON	82K	5%	1/4W	
R126	1-249-417-11	CARBON	1K	5%	1/4W	

Ref.No.	Part No.	Description				
R127	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R128	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R129	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R130	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R131	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R132	1-216-070-00	METAL GLAZE	7.5K	5%	1/10W	
R133	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R134	1-247-818-11	CARBON	300	5%	1/4W	
R135	1-247-818-11	CARBON	300	5%	1/4W	
R136	1-247-818-11	CARBON	300	5%	1/4W	
R137	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R138	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R139	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R140	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R141	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R142	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R200	1-249-410-11	CARBON	270	5%	1/4W	
RV1	1-241-217-11	RES, VAR 50K (VOLUME)				
RV2	1-241-216-11	RES, VAR 20K (TONE)				
RV3	1-238-017-11	RES, ADJ, CARBON 22K				
S1	1-554-123-00	SWITCH, SLIDE (SENS)				
S301	1-554-303-21	SWITCH, KEY BOARD (SCAN/TIME ADJ:-)				
S302	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING 1)				
S303	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING 4)				
S304	1-554-303-21	SWITCH, KEY BOARD (MW)				
S305	1-554-303-21	SWITCH, KEY BOARD (SCAN/TIME ADJ:+)				
S306	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING 2)				
S307	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING 5)				
S308	1-554-303-21	SWITCH, KEY BOARD (SLEEP)				
S309	1-554-303-21	SWITCH, KEY BOARD (FM)				
S310	1-554-303-21	SWITCH, KEY BOARD (TIME SET:ALARM)				
S311	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING)				
S312	1-554-303-21	SWITCH, KEY BOARD (OFF)				
S313	1-554-303-21	SWITCH, KEY BOARD (LW)				
S314	1-554-303-21	SWITCH, KEY BOARD (TIME SET:CLOCK)				
S315	1-554-303-21	SWITCH, KEY BOARD (ENTER)				
S316	1-554-303-21	SWITCH, KEY BOARD (ALARM SET)				
S317	1-572-386-11	SWITCH, SLIDE (ALARM)				
SP1	1-503-915-11	SPEAKER				
T1	1-404-790-11	TRANSFORMER, IF				
T100	1-449-138-11	TRANSFORMER, DC-DC CONVERTER				
T200	△1-450-208-11	(EXCEPT FOR UK)...TRANSFORMER, POWER				
T200	△1-450-209-11	(UK).....TRANSFORMER, POWER				
X100	1-567-769-11	VIBRATOR, CRYSTAL 75kHz				

ACCESSORY & PACKING MATERIAL

△1-558-032-11	(UK).....CORD, POWER
△1-558-638-11	(EXCEPT FOR UK)...CORD, POWER
*3-362-498-01	(EXCEPT FOR UK)...INDIVIDUAL CARTON
*3-363-100-01	(UK).....INDIVIDUAL CARTON
*3-362-501-01	CUSHION
3-752-107-11	(AEP,UK,FRENCH)...MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,SWEDISH)
3-752-107-41	(AEP,ITALIAN).....MANUAL, INSTRUCTION (DUTCH,SPANISH,ITALIAN,PORTUGUESE)

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

