

# AIWA®

S/M Code No. 83-009  
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# SERVICE MANUAL

STEREO RECEIVER

MODEL NO.

# RX-30



## TYPE. H, HB, HU, U, UB, E, EB, K, KB, G

Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of service.

1. No scratch and melting shall be made to covered lead-wires of an a.c. primary circuit including mains leads.

2. No illegibility shall be given to the specification plate, the caution labels, the fuse labels and others.

3. When, on pattern sides of circuit boards, additional repair-parts have been made up, the parts shall be firmly glued to circuit boards or other components, unless the parts can be attached firmly.

4. The following matters shall be maintained as they are, when repairing.

1) Soldering of lead-wire ends

\* Care should be taken of the space distance in an a.c. primary circuit as well as soldering.

2) Wiring and holding of lead-wires with wire-clips and binders

3) Materials of lead-wires

\* e.g.: For UL models, lead-wires to be used shall be approved or accepted by the UL.

4) Location of all kinds of insulators

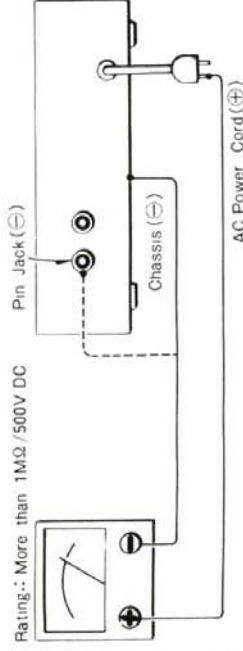
5) Setting of voltage selector switch

\* Set the Voltage Selector Switch to 240V, 220V, or 120V, According to your Local Voltage.

5. After repaired, the insulation resistance or leakage current shall be measured with  $500 \pm 5V$  D.C and shall be not less than  $1M\Omega$ .

### Measuring Point

Connect to Chassis or Outside  $\ominus$  of Pin Jack



# SPECIFICATIONS

## « GENERAL » Semiconductors:

H, HB, HU, U, UB models  
18 ICs, 5 FETs, 57 transistors,  
58 diodes, 13 LEDs,  
E, EB, K, KB models  
18 ICs, 5 FETs, 60 transistors,  
60 diodes, 13 LEDs  
G model

18 ICs, 5 FETs, 57 transistors,  
57 diodes, 13 LEDs  
H, HB, HU, E, EB, K, KB models  
AC 120V/220 ~ 240V  
Switchable, 50/60 Hz  
U, UB models  
AC 120V, 60Hz  
G model

## Power source:

U, UB models  
AC 120V, 60Hz  
G model

## Power consumption:

AC 240V, 50/60 Hz  
H, HB, HU models 60W  
U, UB models 65W

## Dimensions:

330(W) x 107(H) x 200(D) mm  
(13" x 4-1/4" x 7-7/8")

## Weight:

4.0 kg (8.81 lbs.)

## « FM TUNER SECTION »

Frequency ranges:  
Intermediate frequency:

IHF sensitivity:

(THD 3%)  
50 dB quieting sensitivity: 35 ± 3 dB (at 98.0 MHz)

## Image frequency interference ratio:

More than 65 dB (at 98.0 MHz)

## Intermediate frequency interference ratio:

More than 65 dB (at 98.0 MHz)

## Signal to noise ratio:

(Weighted)  
(MONO)  
(STEREO)  
More than 70 dB (98.0 MHz)

## Total harmonic distortion:

(Input level 60 dB)  
(MONO)  
(STEREO)  
Less than 0.2% (at 98.0 MHz)

## AM suppression ratio:

Less than 0.6% (at 98.0 MHz)

## Muting response:

More than 43 dB (at 98.0 dB)

## Effective selectivity:

30 ± 2 dB (at 98.0 MHz)

## Capture ratio:

More than 60 dB (at 98.0 MHz)

## Frequency response:

Less than 2.5 dB (at 98.0 MHz)

## Separation:

30 Hz ~ 15 kHz (+0.5 ~ -1.5 dB)

## Auto stop level:

More than 30 dB (at 1 kHz)  
32 ± 3 dB (at 98.0 MHz)

## « AM TUNER SECTION »

### Frequency ranges:

MW (AM) H, HB, HU, E, EB, K, KB, G models  
522 ~ 1611 kHz  
U, UB models  
530 ~ 1620 kHz

## LW

E, EB, K, KB models  
144 ~ 353 kHz

## Intermediate frequency:

450 kHz

## Sensitivity:

MW (AM) 52 ± 3 dB (at 603 kHz)  
51 ± 3 dB (at 999,  
1404 kHz)

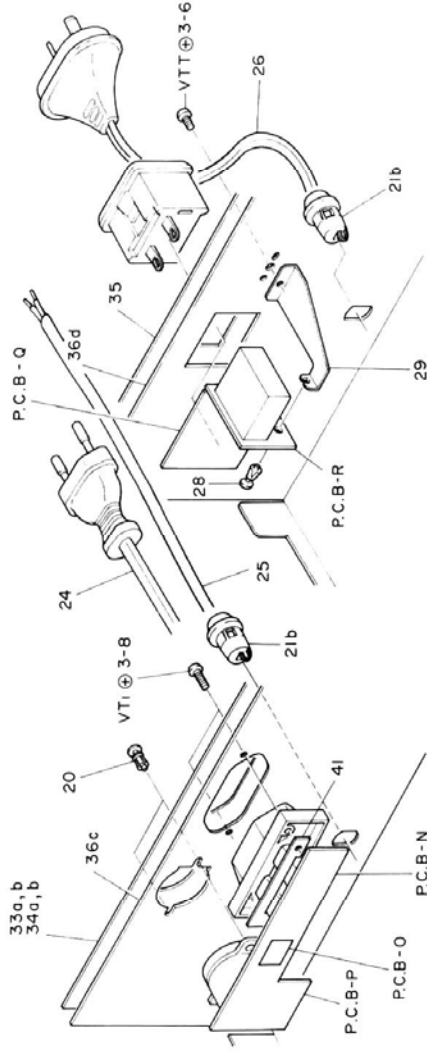
## LW

E, EB, K, KB models  
59 ± 3 dB (at 150 kHz)  
57 ± 3 dB (at 200, 350 kHz)

## Image frequency interference ratio:

MW (AM) More than 40 dB  
(at 999 kHz)

## EXPLODED VIEW ( E, K, G models only )



• Specifications and external appearance are subject to change without due to product improvement.

## LW

E, EB, K, KB models  
More than 45 dB  
(at 200 kHz)

## Intermediate frequency interference ratio:

MW (AM) More than 60 dB  
(at 999 kHz)

MW (AM) More than 30 dB  
(at 999 kHz)

## Selectivity:

(±9 kHz)  
Total harmonic distortion: MW (AM) Less than 1.0% (at 999 kHz)

AGC characteristic: MW (AM) 65 ± 6 dB (at 999 kHz)

Signal to noise ratio: MW (AM) More than 42 dB  
(74 dB input)

More than 48 dB  
(100 dB input)

MW (AM) 48 ± 6dB  
E, EB, K, KB models

LW 60 ± 6dB

## Auto stop level:

MW (AM) 48 ± 6dB  
E, EB, K, KB models

LW 60 ± 6dB

## « AMP SECTION »

### Output power:

H, HB, HU models  
30W + 30W (8Ω, T.H.D. 5%, 1 kHz)

E, EB, K, KB, G models  
25W + 25 W (8Ω, T.H. D. 1%, 1 kHz)

U, UB models  
< FTC Rule >

25 Watts per channel, Min.

RMS at 8 ohms, from 60 Hz

~ 20 kHz, with no more than

1% Total Harmonic Distortion.

Less than 0.05% (1 kHz, 20W)

30 Hz to 40,000 Hz

40 Hz to 50,000 Hz (+1.0 dB)

PHONO (MM) More than 80 dB

AUX More than 88 dB

(IHF A Curve, short circuit)

More than ± 10 dB

(40 Hz, 125 Hz, 330 Hz, 1 kHz, 2.5 kHz,

6.3 kHz, 15 kHz)

60 Hz +18 dB ± 2 dB

0 ± 0.5 dB (1 kHz)

More than 50 dB

PHONO -49 ± 2 dB/47 kΩ

AUX -16.5 ± 2 dB/47 kΩ

MIC -55 ± 2 dB

150 mV ± 10 mV

HEADPHONES 1 mV/1W, 8Ω

SPEAKERS 8Ω

PHONO Less than 1.0 mV

AUX Less than 0.5 mV

Less than 30

## Residual noise

(IHF-A Filter)

Damping factor:

(1 kHz 8Ω)

## « TIMER SECTION »

### Time precision:

Timer setting:

Within 15 seconds/per month (25°C)

Setting AM and PM starting time in

1-minute units.

ON/OFF time setting possible.

The E model uses a 24-hour display

system.

## Sleep timer setting time:

Within 15 seconds/per month (25°C)

Setting AM and PM starting time in

1-minute units.

ON/OFF time setting possible.

The E model uses a 24-hour display

system.

ELECTRICAL MAIN PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
◀ MAIN CIRCUIT BOARD SECTION ▶			◀ FRONT END CIRCUIT BOARD SECTION ▶			◀ SWITCH-1 CIRCUIT BOARD SECTION ▶			◀ SUB CIRCUIT BOARD SECTION ▶			◀ SWITCH-3 CIRCUIT BOARD SECTION ▶		
PCB-A	*	Main circuit board	PCB-B	*	Front end circuit board	PCB-H	*	Switch-1 circuit board	PCB-O	*	SUB circuit board	PCB-P	*	Switch-3 circuit board
IC1	87-027-925-01	IC, M5220L	Q101	87-026-165-01	FET, 3SK73GR	IC1	87-027-994-01	IC, AN6873	PCB-Q	*	Outlet circuit board	PCB-R	*	Outlet circuit board
IC2	87-027-978-01	IC, TC9152P	Q102	89-319-233-01	Transistor, 2SC1923(I)	IC2	87-027-995-01	IC, AN6887	Q1	87-032-996-01	AC outlet	Q2	87-032-996-01	AC outlet
IC3, 5, 105	87-027-895-01	IC, M5218L	Q103, 104	89-501-615-01	FET, 2SK161 (GR)	Q1, 2	89-110-154-01	Transistor, 2SA1015 (Y)	Q2	87-032-996-01	Rotary switch	Q3	87-032-996-01	Rotary switch
IC6, 7	87-027-897-01	IC, μPC1225H	D101, 103, 104, 105	87-027-900-01	Variable capacitor diode, 15V147	D1, 2, 3, 4, 5	87-027-097-01	Diode, IS1555	Q4	87-032-996-01	Fuse, "T" 1.6A	Q5	87-032-996-01	Fuse, "T" 1.6A
IC8	87-027-787-01	IC, μPC1237H	D102	87-027-097-01	Diode, IS1555	D7, 8	87-027-097-01	Diode, IS1555	Q6	87-032-996-01	Fuse, "T" 800mA	Q6	87-032-996-01	Fuse, "T" 800mA
IC101	87-027-901-01	IC, HA1137W	L101	82-791-631-01	FM antenna coil, 4	D31, 32, 33, 34, 35, 36	87-027-772-01	LED, GL-9PR4 (GRAPHIC EQUALIZER, DSL, FM STEREO, PHONO, CD/AUX, TAPE)	Q7	87-032-996-01	Fuse, "T" 1.6A	Q7	87-032-996-01	Fuse, "T" 1.6A
IC102	87-027-998-01	IC, μPC1227V	L102	82-791-630-01	FM antenna coil, 3	D37	82-553-603-01	LED, LN07202, P (SIGNAL/LEVEL)	Q8	87-032-996-01	Fuse, "T" 1.6A	Q8	87-032-996-01	Fuse, "T" 1.6A
IC103	87-027-996-01	IC, LA1245	L103, 105, 106	82-791-629-01	FM antenna coil, U	FL1	82-795-620-01	FL, 9MT212K	Q9	87-032-996-01	Fuse, "T" 1.6A	Q9	87-032-996-01	Fuse, "T" 1.6A
IC104	87-027-948-01	IC, M54514AP	L104	82-791-627-01	FM antenna coil, 2	SW1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	87-031-770-01	Tact switch, EVQ-QS2-0.5 (PHONO, CD/AUX, TAPE, FM, AM (MW), UP/MINUTE, DOWN/HOUR, TIME/FREQUENCY, TIMER/DISPLAY, SLEEP, STANDBY, MEMORY/TIME SET, □, □, □, □, □, □, □, □)	Q10	87-032-996-01	Fuse, "T" 1.6A	Q10	87-032-996-01	Fuse, "T" 1.6A
Q1, 2, 3, 4, 9, 10, 15, 16, 19, 106, 108, 109, 114, 116	89-318-154-01	Transistor, 2SC1815 (Y)	L107	82-794-683-01	FM IFT, 6T	SW6	87-031-770-01	Tact switch, EVQ-QS2-0.5 (LW) (E, EB, K, KB models only)	Q11	87-032-996-01	Fuse, "T" 1.6A	Q11	87-032-996-01	Fuse, "T" 1.6A
Q5, 6, 117, 118	89-320-011-01	Transistor, 2SC2001 (K)	L108	82-791-633-01	FM OSC coil, U	R14	82-795-616-01	GEQ circuit board	Q12	87-032-996-01	Fuse, "T" 1.6A	Q12	87-032-996-01	Fuse, "T" 1.6A
Q7, 8	89-318-156-01	Transistor, 2SC1815 (BL)	L117	87-005-151-01	Coil, 2,2μH	C1, 2, 3	87-015-995-81	Transistor, 2SC1815 (GR)	Q13	87-032-996-01	Fuse, "T" 1.6A	Q13	87-032-996-01	Fuse, "T" 1.6A
Q11, 12	89-414-073-41	Transistor, 2SD1407	TC1, 2	87-011-139-01	Trimmer, 6pF	PCB-I	*	Switch-2 circuit board	Q14	87-032-996-01	Fuse, "T" 1.6A	Q14	87-032-996-01	Fuse, "T" 1.6A
Q13, 14	89-210-163-41	Transistor, 2SB1016	PIN	87-049-114-01	Pin, 4P	S101	82-795-619-01	Push-switch (POWER)	Q15	87-032-996-01	Fuse, "T" 1.6A	Q15	87-032-996-01	Fuse, "T" 1.6A
Q17	89-412-653-01	Transistor, 2SD1265 (O)	PIN	87-049-115-01	Pin, 5P				Q16	87-032-996-01	Fuse, "T" 1.6A	Q16	87-032-996-01	Fuse, "T" 1.6A
Q18	89-209-412-01	Transistor, 2SB941 (Q)							Q17	87-032-996-01	Fuse, "T" 1.6A	Q17	87-032-996-01	Fuse, "T" 1.6A
Q20, 105, 115	89-110-154-01	Transistor, 2SA1015 (Y)							Q18	87-032-996-01	Fuse, "T" 1.6A	Q18	87-032-996-01	Fuse, "T" 1.6A
Q107	89-502-464-01	FET, 2SK246 (Y)							Q19	87-032-996-01	Fuse, "T" 1.6A	Q19	87-032-996-01	Fuse, "T" 1.6A
Q110	89-501-615-01	FET, 2SK161 (GR)							Q20	87-032-996-01	Fuse, "T" 1.6A	Q20	87-032-996-01	Fuse, "T" 1.6A
Q111, 113	89-413-023-01	Transistor, 2SD1302 (S)							Q21	87-032-996-01	Fuse, "T" 1.6A	Q21	87-032-996-01	Fuse, "T" 1.6A
Q112	89-318-154-01	Transistor, 2SC1815 (Y)							Q22	87-032-996-01	Fuse, "T" 1.6A	Q22	87-032-996-01	Fuse, "T" 1.6A
D1, 2, 4, 5, 8, 9, 10, 11, 12, 13, 21	87-027-219-01	Diode, MA150							Q23	87-032-996-01	Fuse, "T" 1.6A	Q23	87-032-996-01	Fuse, "T" 1.6A
D3, 6	87-027-332-01	Zener diode, HZ6B1L							Q24	87-032-996-01	Fuse, "T" 1.6A	Q24	87-032-996-01	Fuse, "T" 1.6A
D7	87-027-416-01	Zener diode, HZ3C2							Q25	87-032-996-01	Fuse, "T" 1.6A	Q25	87-032-996-01	Fuse, "T" 1.6A
D14, 15	87-027-449-01	Zener diode, HZ15-3L							Q26	87-032-996-01	Fuse, "T" 1.6A	Q26	87-032-996-01	Fuse, "T" 1.6A
D16	87-027-977-01	Diode, KBL0Z							Q27	87-032-996-01	Fuse, "T" 1.6A	Q27	87-032-996-01	Fuse, "T" 1.6A
D17, 18, 20	87-027-365-01	Diode, S5277B							Q28	87-032-996-01	Fuse, "T" 1.6A	Q28	87-032-996-01	Fuse, "T" 1.6A
D106, 107	82-769-617-01	Variable capacitor diode, KV-12362-2							Q29	87-032-996-01	Fuse, "T" 1.6A	Q29	87-032-996-01	Fuse, "T" 1.6A
D108, 109	87-027-097-01	Diode, IS1555							Q30	87-032-996-01	Fuse, "T" 1.6A	Q30	87-032-996-01	Fuse, "T" 1.6A
L1, 2	87-005-158-01	Inductor coil, 1μH							Q31	87-032-996-01	Fuse, "T" 1.6A	Q31	87-032-996-01	Fuse, "T" 1.6A
L109	82-795-626-01	FM coil (P)							Q32	87-032-996-01	Fuse, "T" 1.6A	Q32	87-032-996-01	Fuse, "T" 1.6A
L110	82-795-627-01	FM coil (S)							Q33	87-032-996-01	Fuse, "T" 1.6A	Q33	87-032-996-01	Fuse, "T" 1.6A
L111	87-005-151-01	Coil, 2,2μH							Q34	87-032-996-01	Fuse, "T" 1.6A	Q34	87-032-996-01	Fuse, "T" 1.6A
L112	82-795-628-01	AM (MW) antenna coil							Q35	87-032-996-01	Fuse, "T" 1.6A	Q35	87-032-996-01	Fuse, "T" 1.6A
L113	82-795-629-01	LW antenna coil							Q36	87-032-996-01	Fuse, "T" 1.6A	Q36	87-032-996-01	Fuse, "T" 1.6A
L114	82-794-687-01	AM (MW) OSC coil							Q37	87-032-996-01	Fuse, "T" 1.6A	Q37	87-032-996-01	Fuse, "T" 1.6A
L115	82-794-688-01	LW OSC coil							Q38	87-032-996-01	Fuse, "T" 1.6A	Q38	87-032-996-01	Fuse, "T" 1.6A
L116	82-795-625-01	MPX filter 2P2CH							Q39	87-032-996-01	Fuse, "T" 1.6A	Q39	87-032-996-01	Fuse, "T" 1.6A
TH1, 2	82-304-722-01	Thermister, 42D26							Q40	87-032-996-01	Fuse, "T" 1.6A	Q40	87-032-996-01	Fuse, "T" 1.6A
CF1, 2, 3	87-008-244-01	Ceramic filter MAB-H, kits							Q41	87-032-996-01	Fuse, "T" 1.6A	Q41	87-032-996-01	Fuse, "T" 1.6A
CF5	82-794-670-01	Ceramic filter BFA450C4N							Q42	87-032-996-01	Fuse, "T" 1.6A	Q42	87-032-996-01	Fuse, "T" 1.6A
CF7	82-795-675-01	Ceramic filter CFMA450 (129)							Q43	87-032-996-01	Fuse, "T" 1.6A	Q43	87-032-996-01	Fuse, "T" 1.6A
TC3	87-011-109-01	Trimmer, 15pF							Q44	87-032-996-01	Fuse, "T" 1.6A	Q44	87-032-996-01	Fuse, "T" 1.6A
TC4	87-011-131-01	Trimmer, 30pF							Q45	87-032-996-01	Fuse, "T" 1.6A	Q45	87-032-996-01	Fuse, "T" 1.6A
ANTENNA, J1, 2, 3, 4, 5, 8	82-795-630-01	Jack plate ass'y (FM 300Ω, 75Ω, AM, GND, PHONO, CD/AUX, REC/PH PLAYER SYNC, PLAYER SYNC)							Q46	87-032-996-01	Fuse, "T" 1.6A	Q46	87-032-996-01	Fuse, "T" 1.6A
ANTENNA, J1, 2, 3, 4, 5, 8	82-795-632-01	Jack plate ass'y (FM 300Ω, 75Ω, AM, GND, PHONO, CD/AUX, REC/PH PLAYER SYNC, PLAYER SYNC) (E, EB, K, KB models only)							Q47	87-032-996-01	Fuse, "T" 1.6A	Q47	87-032-996-01	Fuse, "T" 1.6A
VR101	82-794-698-01	Volume, K 122J, SW (MUTING/AUTO STOP LEVEL)							Q48	87-032-996-01	Fuse, "T" 1.6A	Q48	87-032-996-01	Fuse, "T" 1.6A
SW102	82-795-624-01	Slide switch (AM STEP SELECTOR) (H, HB, HU models only)							Q49	87-032-996-01	Fuse, "T" 1.6A	Q49	87-032-996-01	Fuse, "T" 1.6A

⚠ Safety component symbol  
This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

C-MOS IC handling precaution  
The C-MOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care in regard to following articles.

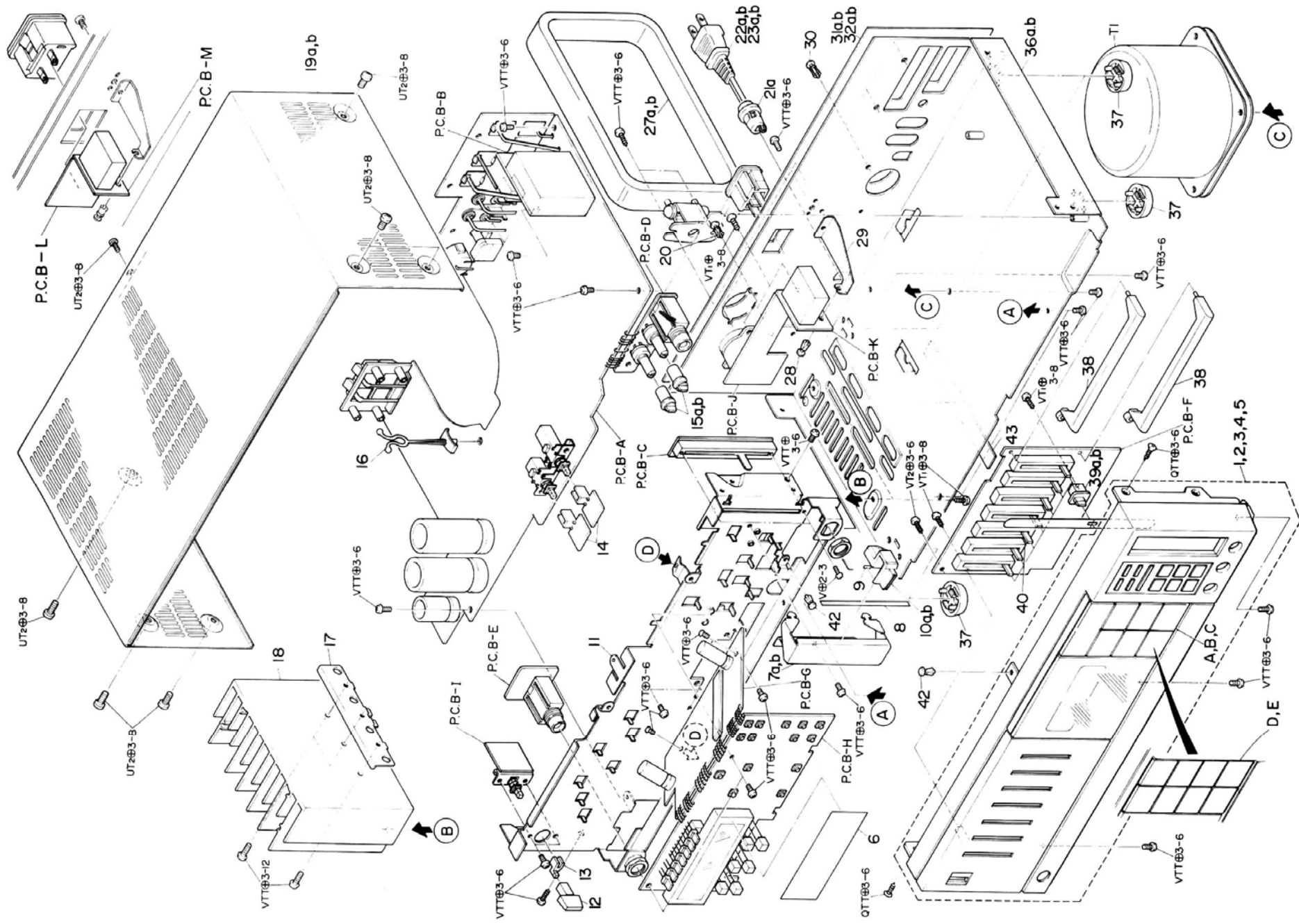
1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260 C) of power consumption for soldering. But do not overheat more than 10 second.
3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.
4. The ICs on the electrical parts which are indicated by an C-MOS IC symbol mark (⚡).

Note: Combination Circuit Board  
The parts on the electrical parts list which are indicated by an asterisk (\*) are supplied as one single combined circuit board. Therefore, they will not be supplied separately. If this becomes necessary, please order the entire circuit board.

Combination circuit board A-T 82-795-650-01	
PCB-A	82-795-651-01
PCB-B	82-795-652-01
PCB-C	82-795-653-01
PCB-D	82-795-654-01
PCB-E	82-795-655-01
PCB-J	82-795-658-01
PCB-K	82-795-659-01 (H, HB, HU models)
PCB-L	82-795-656-01 (U, UB models)
PCB-M	82-795-657-01 (U, UB models)
PCB-N	82-795-660-01 (E, EB, K, KB models)
PCB-O	82-795-661-01 (E, EB, K, KB models)
PCB-P	82-795-662-01 (E, EB, K, KB models)

Combination circuit board B 82-795-606-01	
PCB-G	82-795-608-01
PCB-H	82-795-607-01
PCB-I	82-795-609-01
PCB-Q	82-795-610-01 (G model)
PCB-R	82-795-611-01 (G model)

# EXPLODED VIEW





# PARTS LIST

## MECHANICAL PARTS

■ \* mark in this part list shows exclusive part  
 [S] = SILVER [B] = BLACK [C. GOLD] = CHAMPAGNE GOLD

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	82-795-001-21		Front cabinet ass'y [S] (H, HU, U, G, models only)	*	1
A	82-795-025-01		Hinge FUNCTION ass'y [S] (H, HU, U, G models only)	*	1
2	82-795-077-01		Front cabinet ass'y [BLK] (H model only)	*	1
B	82-795-063-01		Hinge FUNCTION ass'y [BLK] (H model only)	*	1
3	82-795-079-01		Front cabinet ass'y [BLK] (U model only)	*	1
C	82-795-063-01		Hinge FUNCTION ass'y [BLK] (U model only)	*	1
4	82-795-033-31		Front cabinet ass'y [C. GOLD] (E, K models only)	*	1
D	82-795-035-01		Hinge FUNCTION ass'y [C. GOLD] (E, K models only)	*	1
5	82-795-081-01		Front cabinet ass'y [BLK] (E, K models only)	*	1
E	82-795-083-01		Hinge FUNCTION ass'y [BLK] (E, K models only)	*	1
6	82-794-047-01		Sheet		1
7a	82-192-018-01		Plate REC [S] [C. GOLD]	FX-30	1
b	82-192-039-01		Plate REC [BLK] (H, U, E, K models only)	FX-30	1
8	82-192-222-01		Sheet 4-70-0.2	FX-30	1
9	82-795-218-01		Felt	*	1
10a	82-795-020-01		Knob, Volume [S] [C. GOLD]	*	1
b	82-795-068-01		Knob, Volume [BLK] (H, U, E, K models only)	*	1
11	82-795-203-01		Front chassis ass'y	*	1
12	82-795-018-01		Push-button, POWER	*	1
13	82-795-206-01		Rod, POWER	*	1
14	82-795-019-01		Push-button	*	2
15a	82-192-031-01		Knob [S] [C. GOLD]	FX-30	2
b	82-192-040-01		Knob [BLK] (H, U, E, K models only)	FX-30	2
16	82-795-220-01		Wire crip	*	1
17	82-794-212-01		Holder IC		1
18	82-794-601-01		Heat sink		1
19a	82-795-022-01		Steel cabinet [S] [C. GOLD]	*	1
b	82-795-070-01		Steel cabinet [BLK] (H, U, E, K models only)	*	1
20	87-085-090-01		Nylon rivet (H, HU, E, K models only)		2
21a	87-085-184-01		Cord bushing (H, HU, U models only)		1
b	87-085-185-01		Cord bushing (E, K, G models only)		1
22a	87-034-956-01		AC power cord [S] (H, HU models only)		1
b	87-034-958-01		AC power cord [BLK] (H model only)		1
23a	87-034-935-01		AC power cord [S] (U model only)		1
b	87-034-578-01		AC power cord [BLK] (U model only)		1
24	87-034-877-01		AC power cord (E model only)		1
25	87-034-975-01		AC power cord (K model only)		1
26	87-034-948-01		AC power cord [S] (G model only)		1
27a	82-791-652-01		Loop antenna ass'y [S] [C. G]	TX-70	1
b	82-795-670-01		Loop antenna B ass'y [B] (H, U, E, K models only)	*	1
28	87-084-063-01		Nylon rivet (H, HU, U, G models only)		1
29	82-795-209-01		Holder, Relay (H, HU, U, G models only)	*	1
30	87-085-102-01		Nylon rivet		3
31a	82-795-027-01		Jack plate [S] (H, HU models only)	*	1
b	82-795-091-01		Jack plate [BLK] (H model only)	*	1
32a	82-795-044-01		Jack plate [S] (U model only)	*	1
b	82-795-089-01		Jack plate [BLK] (U model only)	*	1
33a	82-795-043-01		Jack plate [C. GOLD] (E model only)	*	1
b	82-795-090-01		Jack plate [BLK] (E model only)	*	1
34a	82-795-039-01		Jack plate [C. GOLD] (K model only)	*	1
b	82-795-092-01		Jack plate [BLK] (K model only)	*	1
35	82-795-045-01		Jack plate [S] (G model only)	*	1
36a	82-795-201-01		Amp. chassis ass'y (H, HU models only)	*	1
b	82-795-212-01		Amp. chassis ass'y (U model only)	*	1
c	82-795-210-01		Amp. chassis ass'y (E, K models only)	*	1
d	82-795-215-01		Amp. chassis ass'y (G model only)	*	1
37	87-085-186-01		Foot		4
38	82-795-205-01		Guide, Film	*	2
39a	82-795-021-01		Knob, Graphic equalizer [S] [C. GOLD]	*	7
b	82-795-069-01		Knob, Graphic equalizer [BLK] (H, U, E, K models only)	*	7
40a	82-795-026-01		Film [S] [C. GOLD]	*	7
b	82-795-065-01		Film [BLK] (H, U, E, K models only)	*	7
41	82-773-216-01		Plate nut (E, K models only)	AT-9500	1
42	87-084-063-01		Nylon rivet	*	2
43	87-794-213-01		Sheet A		1

## ■ ACCESSORIES/PACKAGE LIST

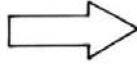
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Qt'y
1	82-795-855-01		Printed indiv., Packing	*	1
2	82-795-852-01		Cushion L, Printed indiv.	*	1
3	82-795-853-01		Cushion R, Printed indiv.	*	1
4	87-056-644-01		Poly-vinyl sack		1
5	87-051-135-11		Poly-vinyl sack (E, EB, K, KB, G models only)		1
6	82-795-901-01		Instructions booklet	*	1
7	87-051-171-11		Poly-vinyl sack		1
8	87-056-008-11		Label, AC power cord (K, KB models only)		1
9	87-056-009-51		Distributors list (H, HB, E, EB, K, KB, G models only)		1
10	87-056-045-01		Guarantee card U (HU, U, UB models only)		1
11	87-056-050-01		Safety instructions booklet (U, UB models only)		1
12	87-056-057-01		Service station list (HU, U, UB models only)		1
13	87-056-059-01		Guarantee card G (G model only)		1
14a	82-791-652-01		Loop antenna ass'y (H, HU, U, E, K, G models only)		1
b	82-795-670-01		Loop antenna B ass'y (HB, UB, EB, KB models only)	TX-70	1
15	87-043-065-01		FM feeder antenna	*	1
16	87-032-845-01		Siemens plug (H, HB models only)		1

### CORRECTION

#### WIRING-2

##### 16. AM IF Adjustment

CFT1 ..... 603 kHz



##### 16. AM IF Adjustment

CFT1 .....450 kHz

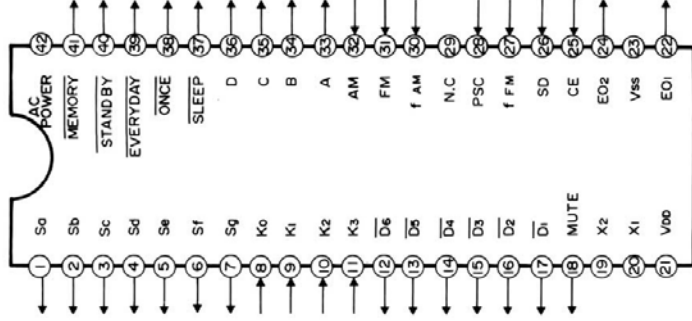
- Ceramic capacitor  
87-018-□□□□-01

Capacitor	Parts code
1pF	001
2.2pF	002
4.7pF	005
10pF	009
12pF	010
15pF	012
18pF	014
22pF	016
27pF	018
33pF	020
47pF	024
56pF	026
100pF	032
120pF	033
150pF	034
470pF	040
680pF	042
1000pF	044
2200pF	045
0.01μF	047

## Description of IC (μPD1704C-018) terminal

### Terminal name

- μPD1704C-018

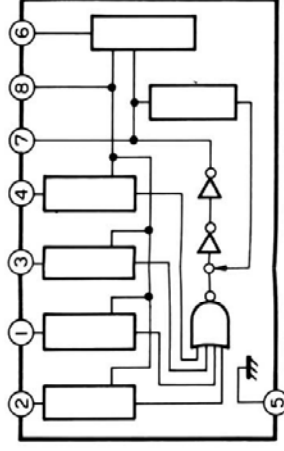


Direction of arrow shows the signal flow

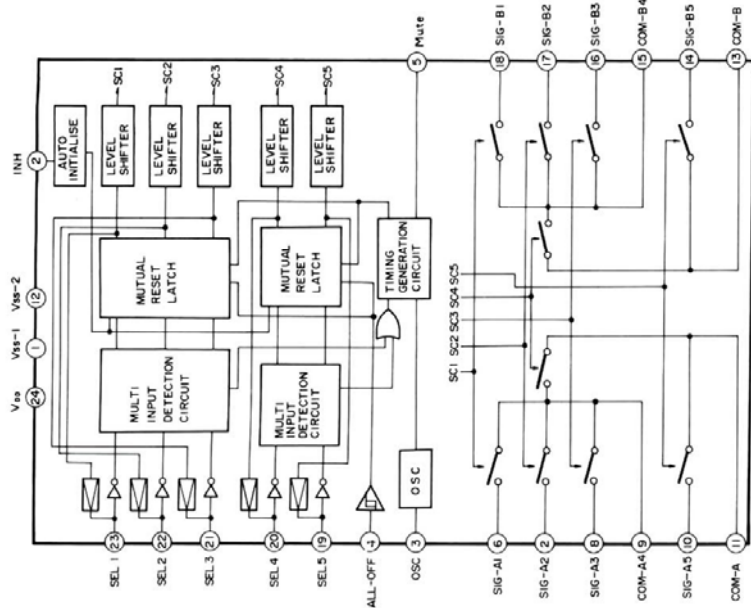
Pin No.	Symbol	Function
①	Sa	Segment output for frequency indication and time indication, and key matrix key-return signal source. Active: High
②	Sb	
③	Sc	
④	Sd	
⑤	Se	
⑥	Sf	
⑦	Sg	
⑧	K <sub>0</sub>	Key matrix input pin
⑨	K <sub>1</sub>	
⑩	K <sub>2</sub>	
⑪	K <sub>3</sub>	
⑫	$\overline{D}_6$	Frequency indication/time indication digit signal output. Active: Low
⑬	$\overline{D}_5$	
⑭	$\overline{D}_4$	
⑮	$\overline{D}_3$	
⑯	$\overline{D}_2$	
⑰	$\overline{D}_1$	
⑱	MUTE	Mute output
⑲	X <sub>2</sub>	Crystal oscillator pin. 4.5MHz
⑳	X <sub>1</sub>	

Pin No.	Symbol	Function
①	VDD	Power pin. 5V ± 10%
②	EO <sub>1</sub>	Phase detector output. Same output as EO <sub>2</sub>
③	VSS	GND pin
④	EO <sub>2</sub>	Phase detector output. Same output as EO <sub>1</sub>
⑤	CE	Chip ENABLE input
⑥	SD	Station detector input. (Stop input signal pin during auto-tuning)
⑦	fFM	FM programmable counter input
⑧	PSC	Pulse swallow control pin (1/16 and 1/17 select signal input)
⑨	N.C.	Not used
⑩	fAM	AM programmable counter input
⑪	FM	Band select signal input
⑫	AM	
⑬	A	Preset channel address indicating BCD signal output
⑭	B	
⑮	C	
⑯	D	
⑰	$\overline{\text{SLEEP}}$	SLEEP indication output
⑱	ONCE	ONCE indication output
⑲	EVERY-DAY	EVERY-DAY indication output
⑳	STANDBY	STANDBY indication output
㉑	MEMO-RY	MEMORY indication output
㉒	AC POWER	AC outlet pin

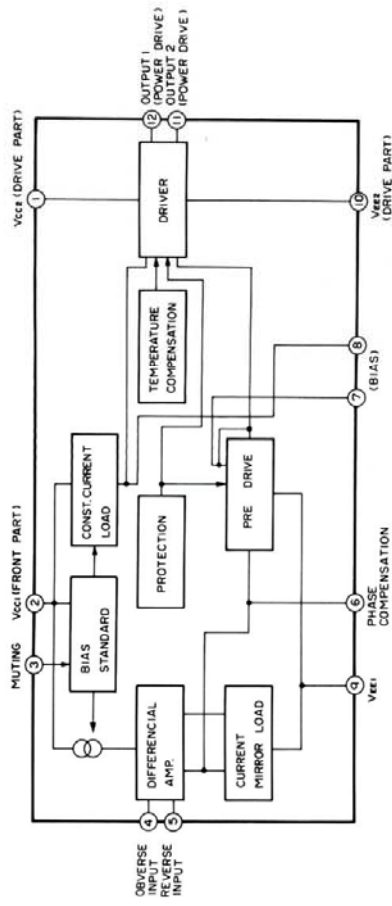
μPC 1237H



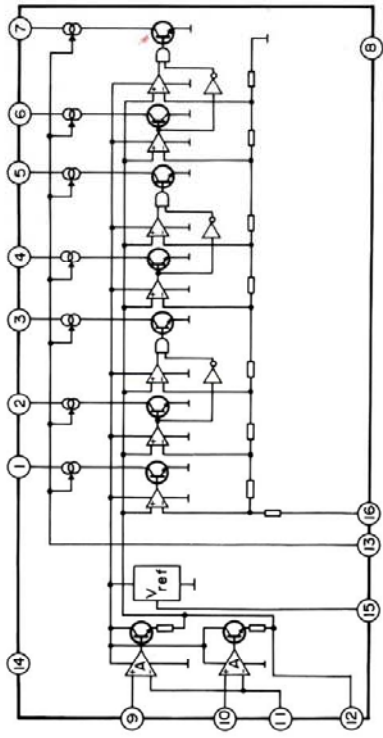
TC 9152P



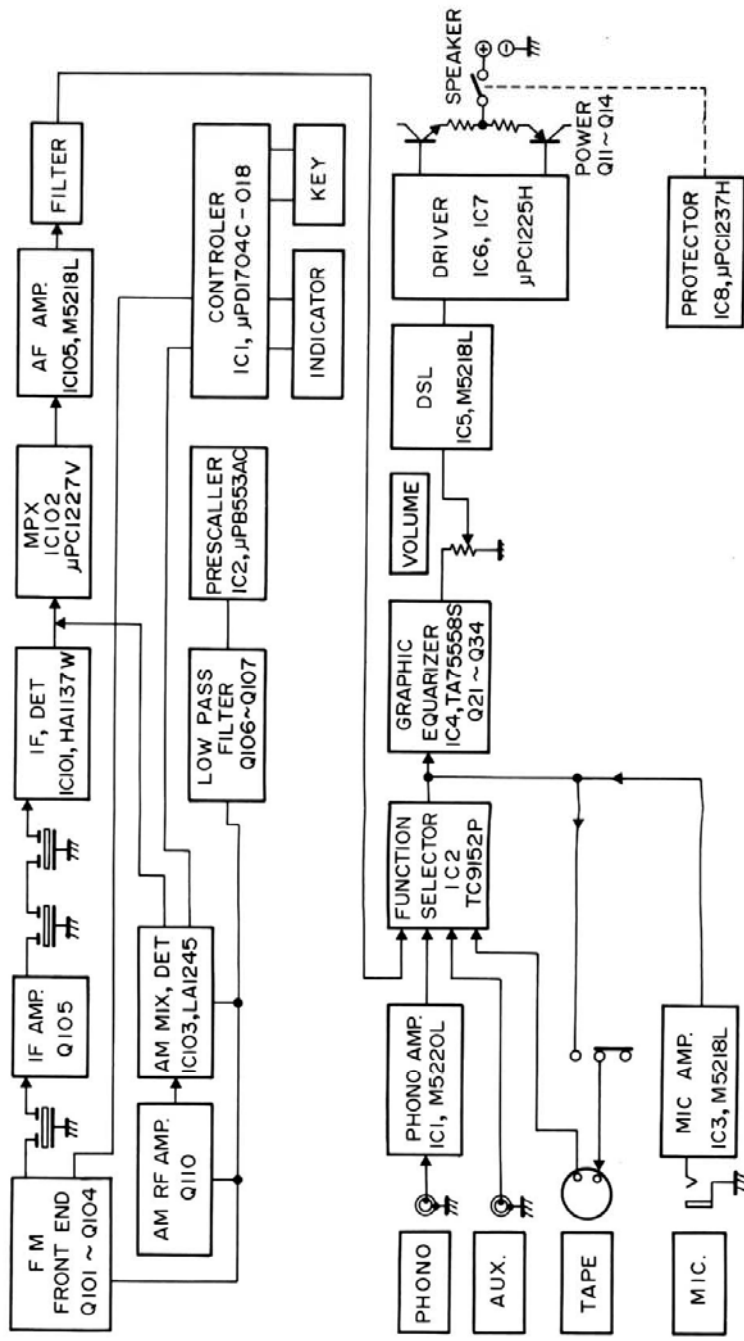
μPC 1225H



AN 6887

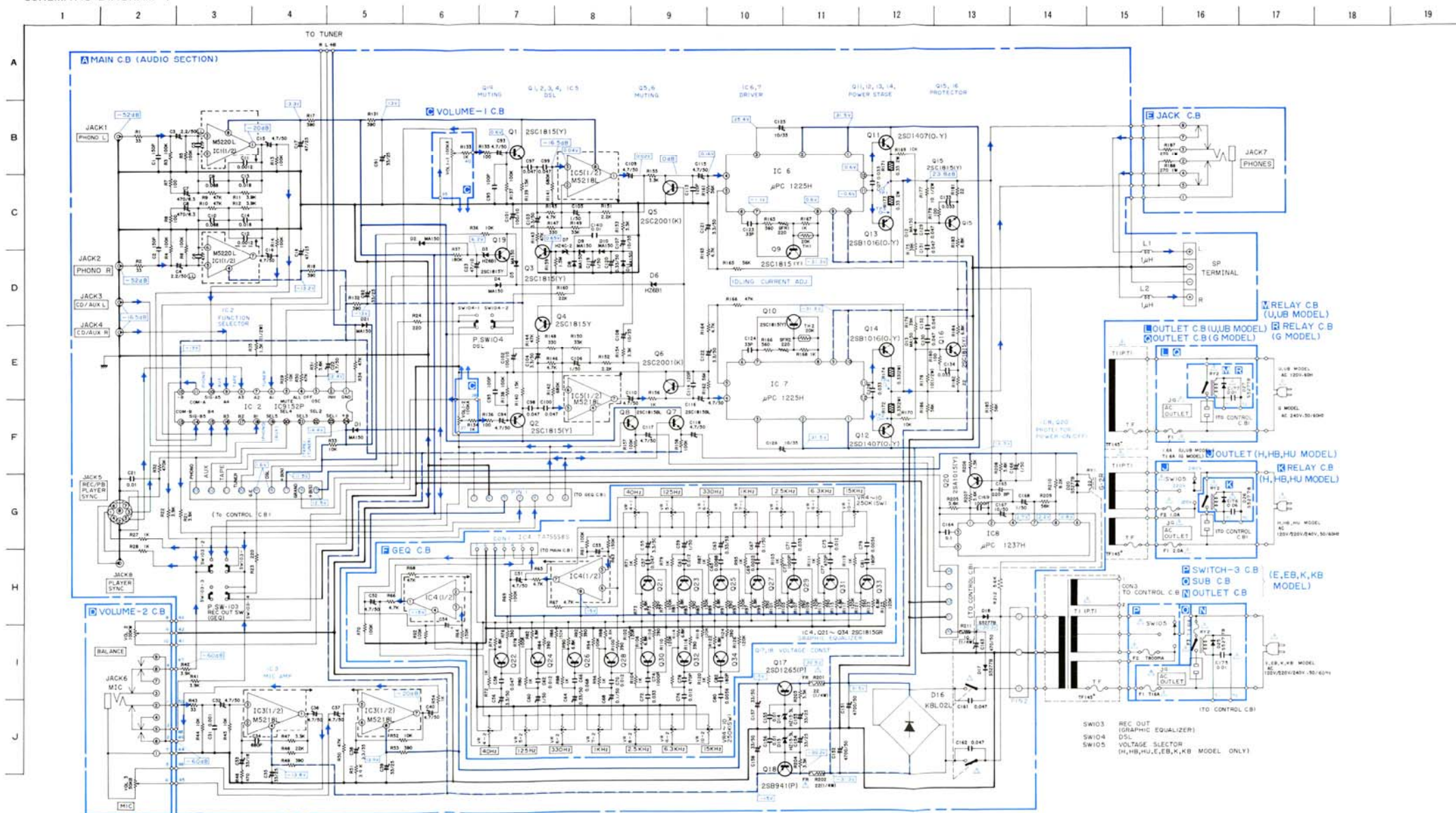


BLOCK DIAGRAM



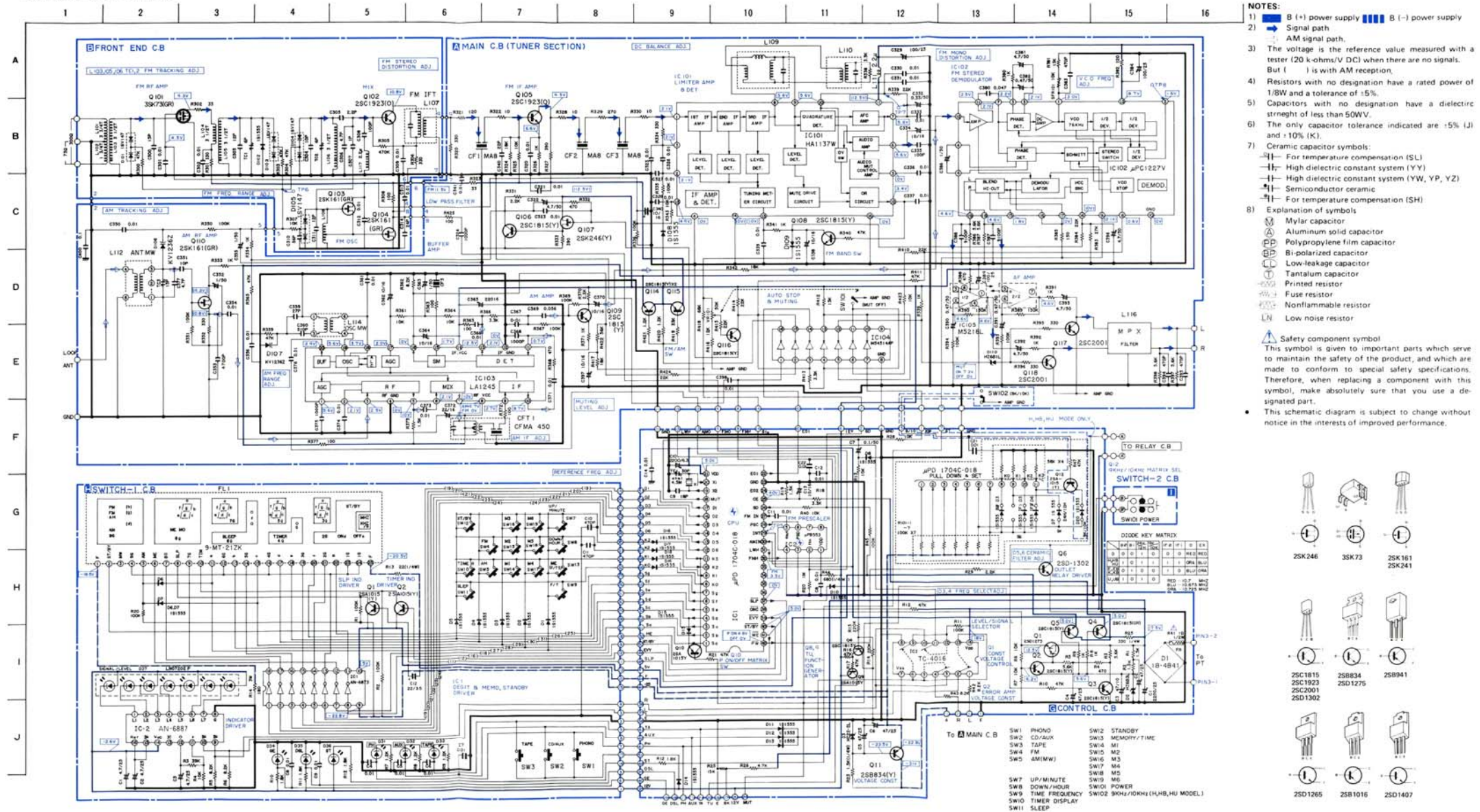


**SCHEMATIC DIAGRAM-1**



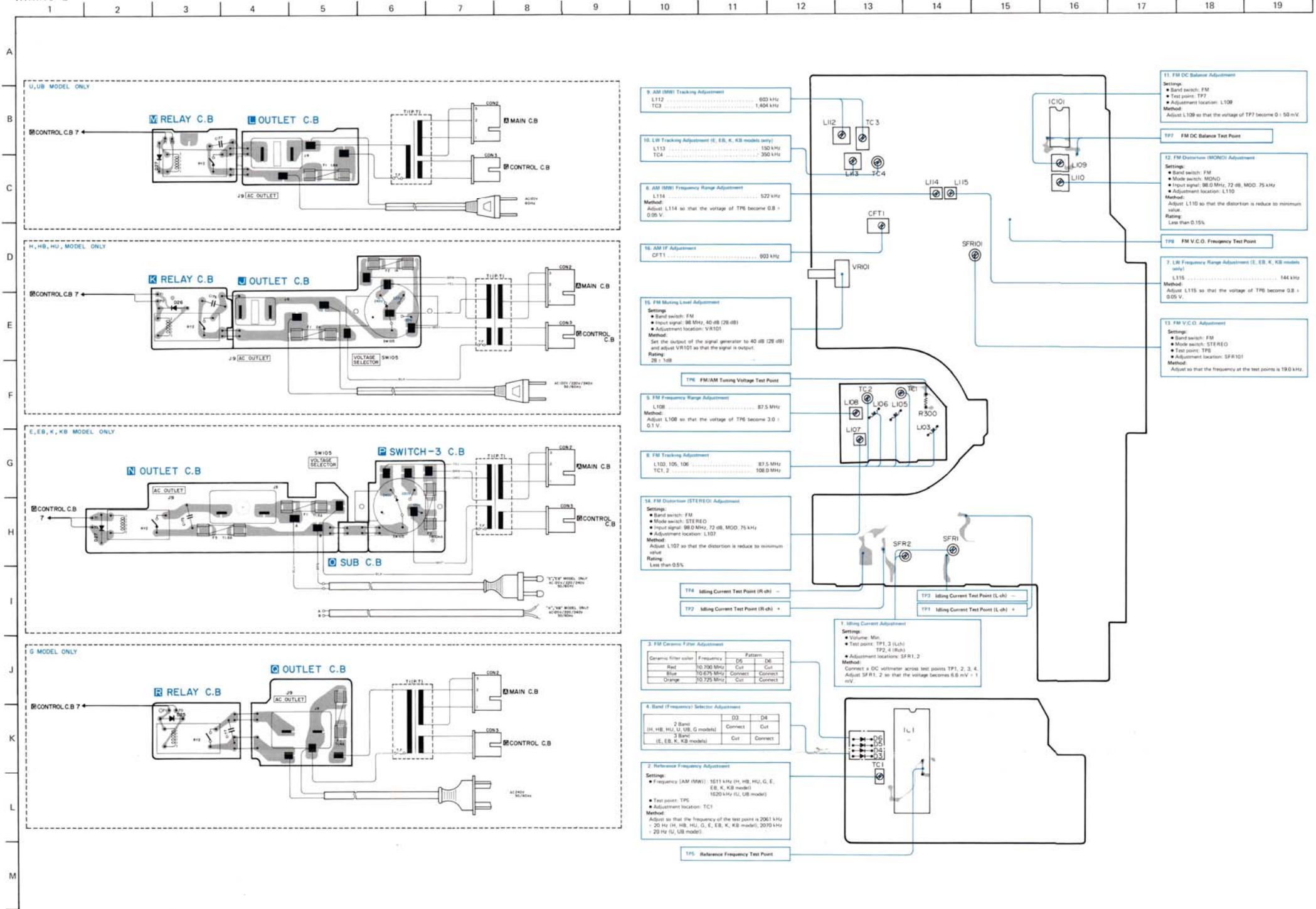


SCHEMATIC DIAGRAM-2

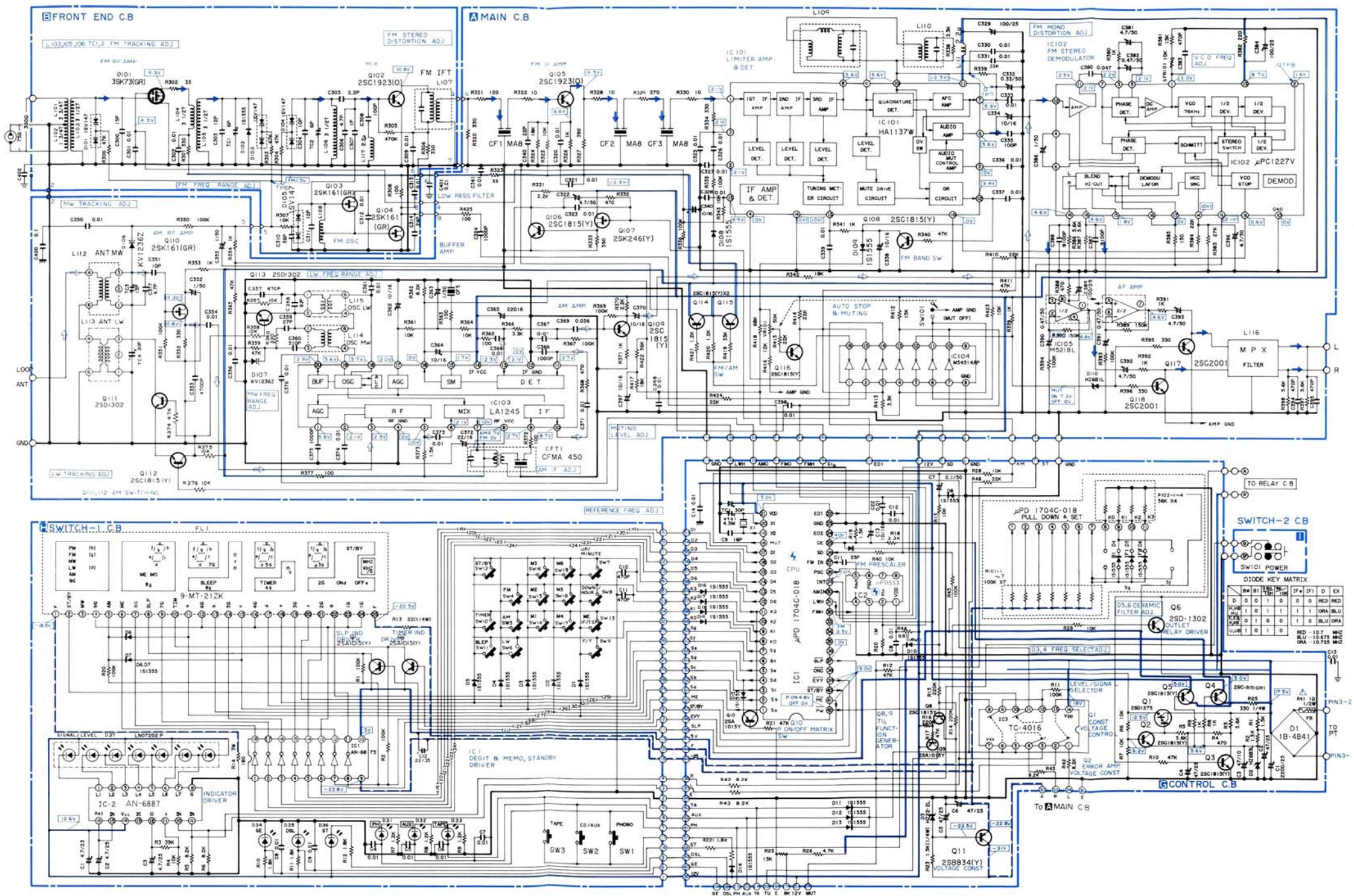












**AIWA Co., Ltd. Tokyo Japan**