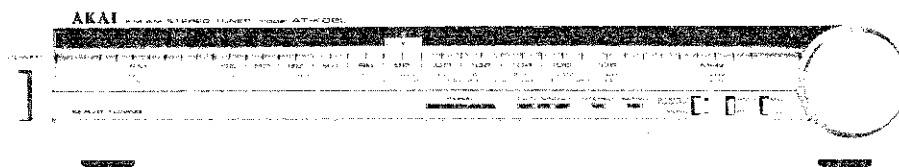


AKAI SERVICE MANUAL



FM/MW/LW STEREO TUNER

MODEL AT-K02L/BL/S

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This manual must be used as a set together with separately published AT-K02 SERVICE MANUAL AND PARTS LIST.

I. TECHNICAL DATA

FM TUNER SECTION

FREQUENCY RANGE	87.5 MHz to 108 MHz
SENSITIVITY (IHF)	1.9 μ V
CAPTURE RATIO	1.2 dB
SELECTIVITY (IHF)	More than 65 dB
IMAGE REJECTION	More than 60 dB (98 MHz)
IF REJECTION	More than 85 dB (98 MHz)
SPURIOUS REJECTION	More than 85 dB (98 MHz)
AM SUPPRESSION	60 dB
SIGNAL TO NOISE RATIO	73 dB
HARMONIC DISTORTION	MONO STEREO
	Less than 0.09% (100% modulation)
	Less than 0.12% (100% modulation)
TUNING INDICATOR	3 LEDs
SIGNAL INDICATOR	5 LEDs
MUTING	Switchable to ON-OFF
STEREO SEPARATION	More than 52 dB (1 kHz)
SUB CARRIER SUPPRESSION	More than 60 dB
OUTPUT VOLTAGE	Fixed 1V (100% modulation)
ANTENNA INPUT IMPEDANCE	300 ohms balanced, 75 ohms unbalanced

AM TUNER SECTION

	MW	LW
FREQUENCY RANGE	520 kHz to 1,605 kHz	135 kHz to 355 kHz
SENSITIVITY (IHF)	150 μ V/m (bar antenna) 10 μ V (external antenna)	200 μ V/m (bar antenna) 17 μ V (external antenna)
SELECTIVITY (IHF)	More than 30 dB	More than 30 dB
IMAGE REJECTION	More than 55 dB (1,000 kHz)	More than 50 dB (at 200 kHz)
IF REJECTION	More than 40 dB	More than 40 dB
SIGNAL TO NOISE RATIO	More than 55 dB	More than 55 dB
OUTPUT VOLTAGE	300 mV (30% modulation)	300 mV (30% modulation)
ANTENNA	Built-in ferrite bar antenna	Built-in ferrite bar antenna without ferrite bar antenna switchable

MISCELLANEOUS

SEMICONDUCTORS	Transistors: 27, Diodes: 13, LEDs: 6, ICs: 4
POWER REQUIREMENTS	220V, 50 Hz for Europe except UK 240V, 50 Hz for UK
POWER CONSUMPTION	20 W
DIMENSIONS	440 (W) x 78 (H) x 340 (D) mm (17.3 x 3.1 x 13.4) inches
WEIGHT	4.9 kg (10.8 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

II. TUNER ADJUSTMENT

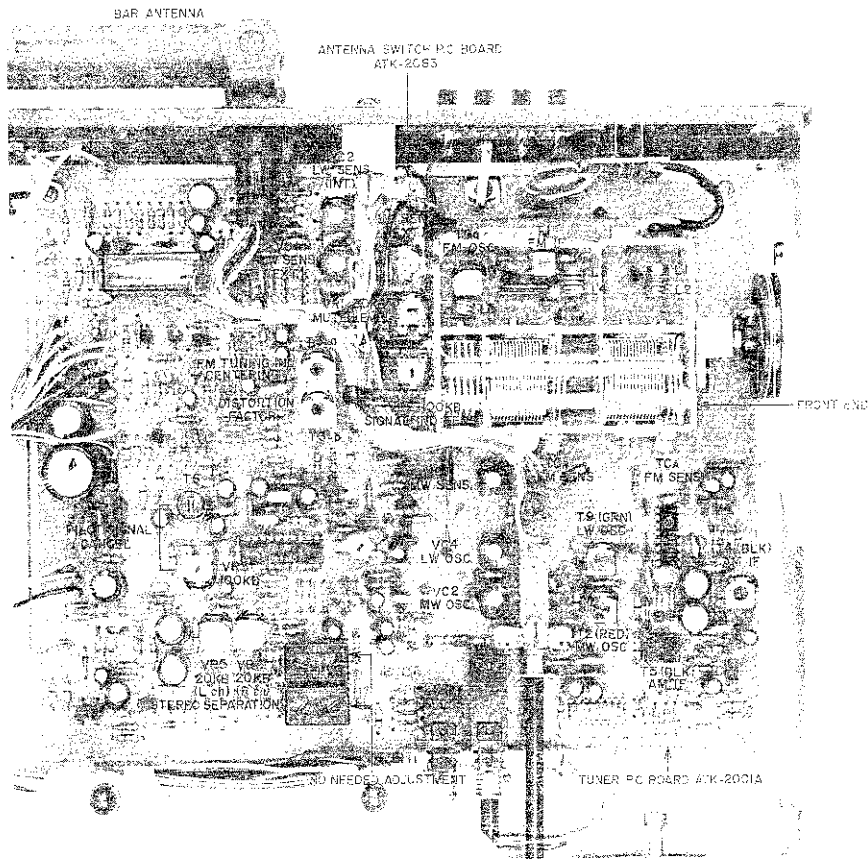


Fig. 1 Tuner P.C Board ATK-2001A

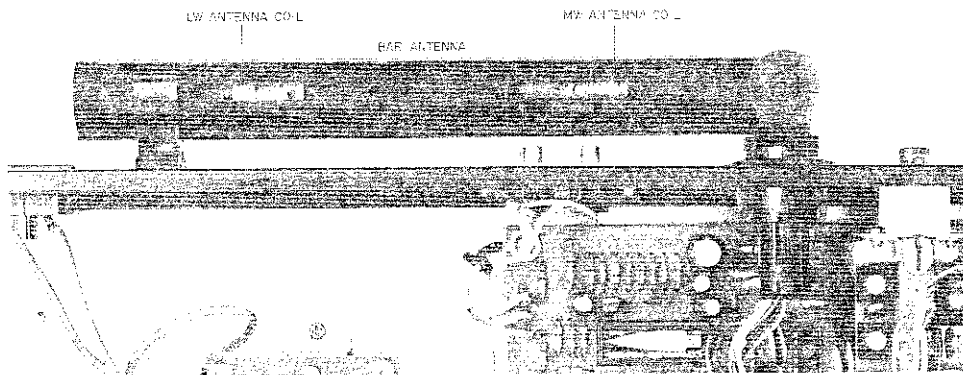


Fig. 2 Bar Antenna

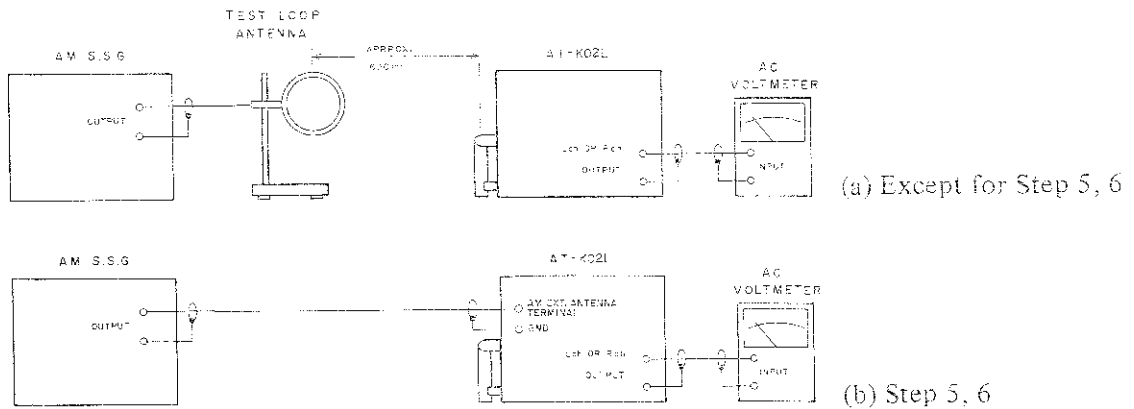
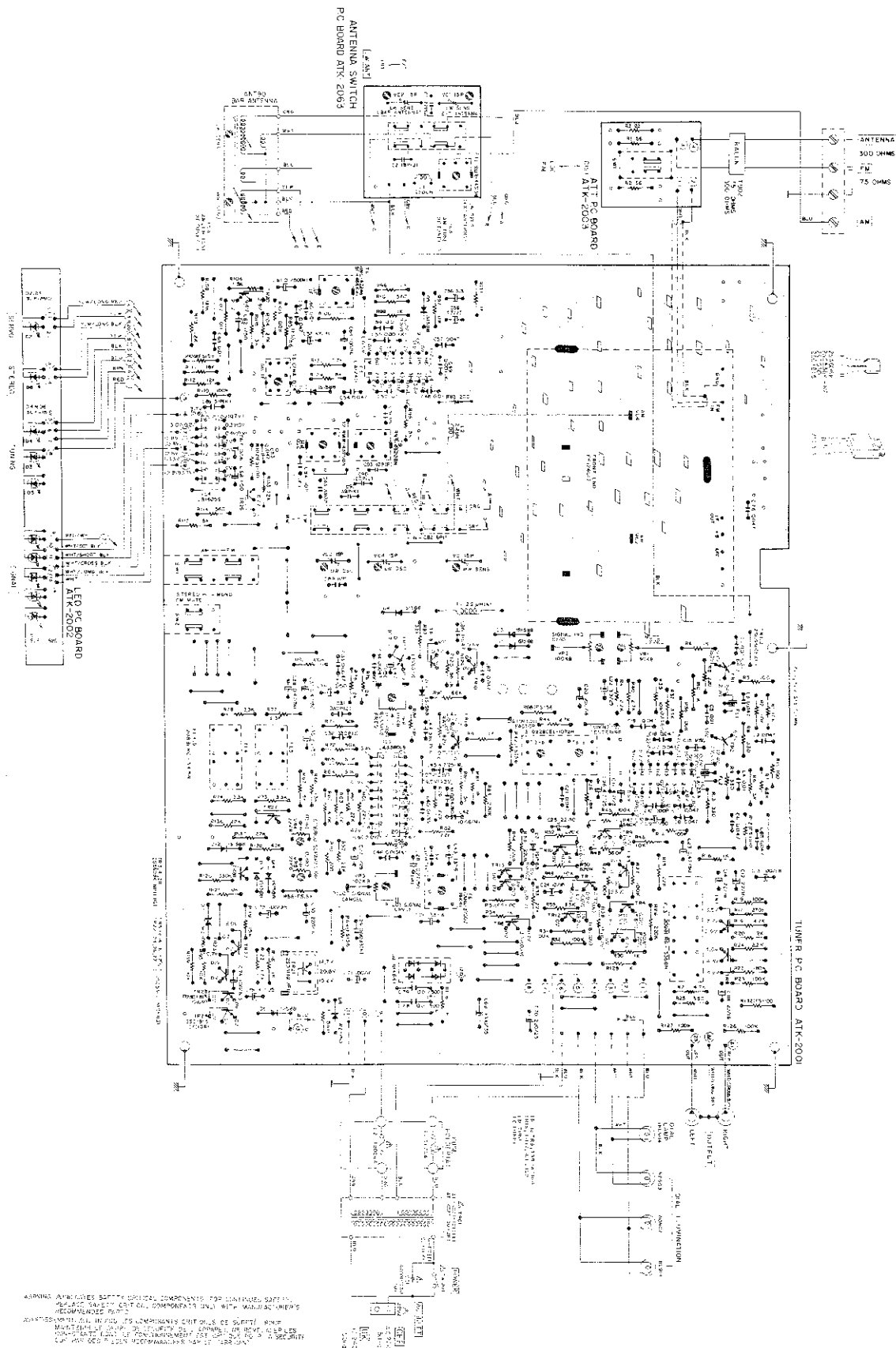


Fig. 3 LW and MW Adjustment Instrument Connection

III. COMPOSITION OF VARIOUS P.C BOARDS

Tuner P.C Board ATK-2001A (3ED), LED P.C Board ATK-2002, ATT P.C Board ATK-2003 & Antenna Switch P.C Board ATK-2063



IV. PARTS LIST

The composite parts of Model AT-K02L, except for those which have been changed as per the list below, are identical to those of Model AT-K02.

Therefore, when ordering parts for this tape deck, please utilize Model AT-K02 Parts List.

1. TUNER P.C BOARD (ATK-2001A) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
1-1	BA320289	Tuner P.C Board Comp. AT-K02L	
1-SW1,2	ES324451	2-Throw Push SW, J-K2107	25-5-369
1-SW3	ES324452	Push SW. SUF12	25-5-368
1-T9	EO310432	OSC Coil RNR-43734N	23-4-49
1-C90	EC269515	Styrol/C. (Vert.) 120 PF(J) 50WV	24-11-3

2. ANT. SW. P.C BOARD (ATK-2063) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
2-SW1	ES319168	Push SW. SUF12	25-5-385
2-L1	EO485278	Ferri Inductor FL5H 220 μ H(K)	23-1-2
2-T1	EO324453	ANT. Coil RUR44313N	23-1-405
2-VC1,2	EC616342	Trimmer/C. CTY122D33 15 PF	24-2-32

3. ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.
3-1	EC327382	MP/C. (Vert.) 0.0047 μ F(M) 250 WV	24-9-134
3-2	TP327621	Dial Thread D0.4	

4. SCALE PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.
4-1	SP324443	Scale Panel (B)	ATK-2016, 2017
4-2	SP324444	Scale Panel (B-BL)	ATK-2016, 2017

5. REAR PANEL BLOCK

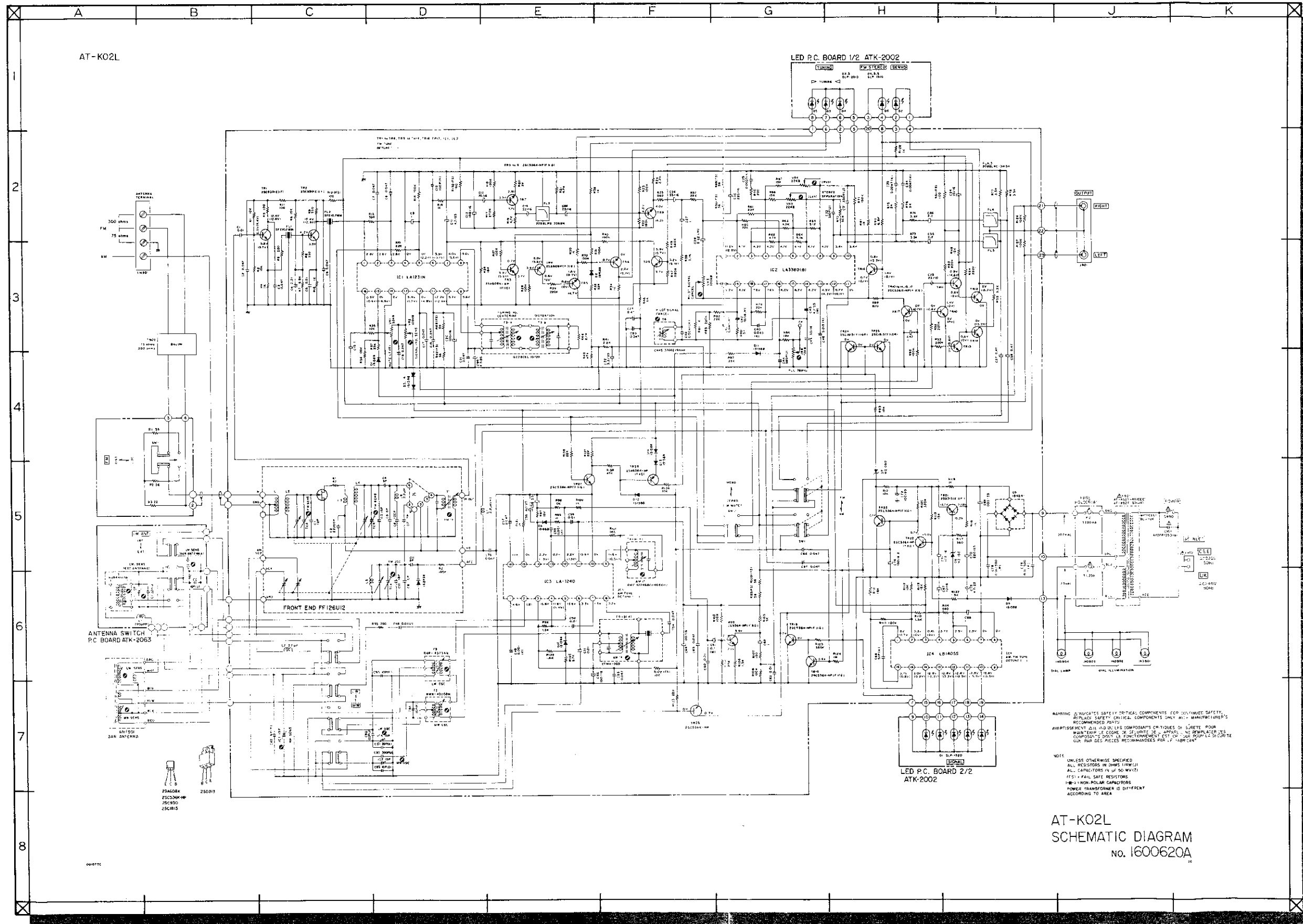
Ref. No.	Parts No.	Description	Schematic No.
5-1	SP324441	Rear Panel (CEE-2) (CEE)	ATK-2040
5-2	SP324442	Rear Panel (UK, SAA-2) (UK)	ATK-2040
5-3	SK607127	Push Knob A (Black)	2-9-127
5-4	EE320334	Bar Antenna	55-1-65
5-5	ZS447761	Tapping Screw #2 BR 3x6 (Black)	
5-6	ZS317216	Screw pan 3x4	
5-7	ZS608185	Screw pan 2.6x4 (Black)	

6. FRONT PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.
6-1	BD320291	Front Panel Block AT-K02L	
6-2	BD320292	Front Panel Block AT-K02L-BL	
6-3	BD320293	Front Panel Block AT-K02L-S	

When ordering parts, please quote Parts Number, Description and Model Number.

V. SCHEMATIC DIAGRAM



AT-K02L
 SCHEMATIC DIAGRAM
 No. 1600620A

