

CIRCUIT DESCRIPTION

POWER SUPPLY

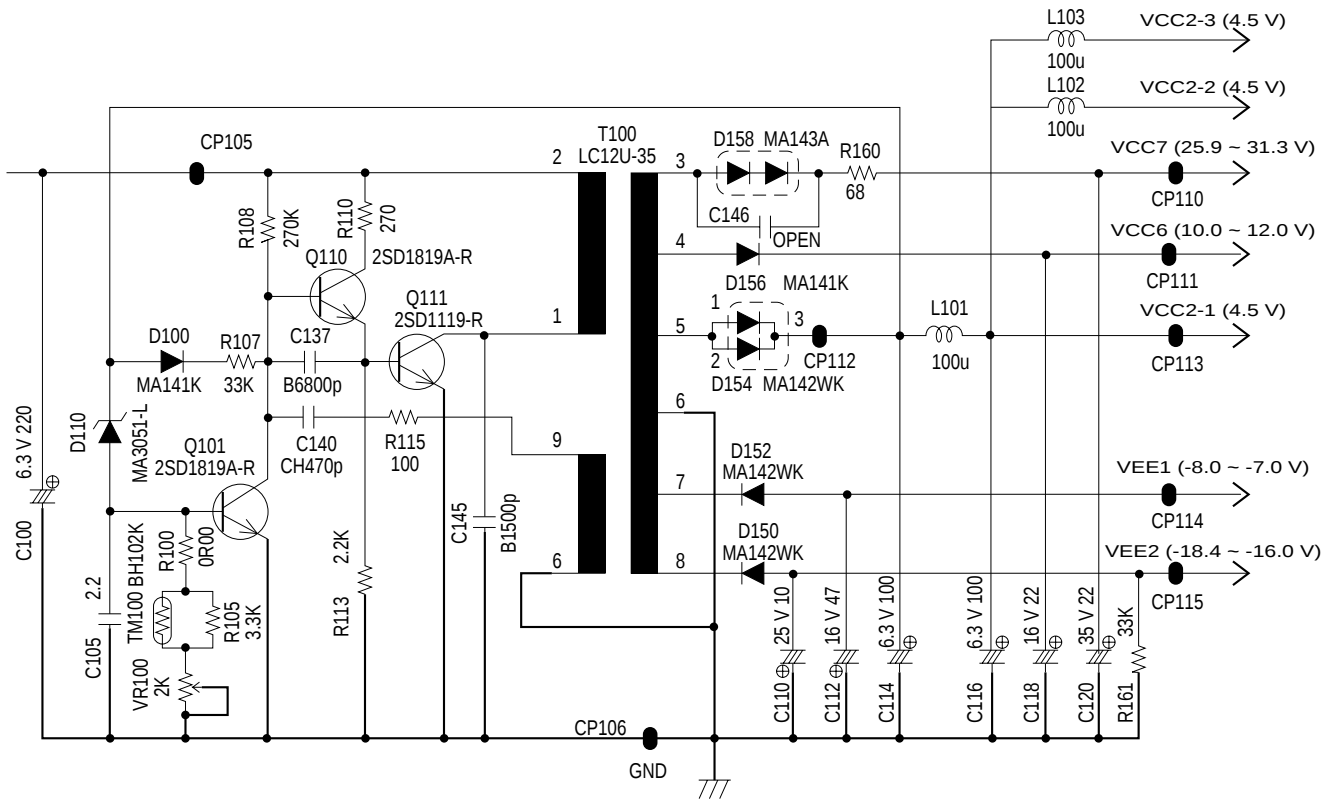


Figure 1

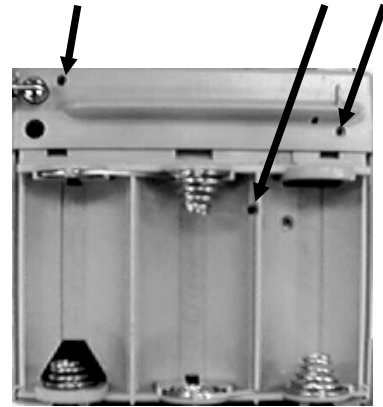
The power supply consists of a DC-DC converter and the associated circuit and supplies the voltages as shown in Table 1.

Name	Voltage	Function
VCC2-1	4.50 ± 0.02 V	Main voltage
VCC7	25.9 ~ 31.3 V	Tuning voltage
VCC6	10.0 ~ 12.0 V	Display voltage
VEE1	-8.0 ~ -7.0 V	Display voltage
VEE2	-18.4 ~ -16.0 V	Display voltage

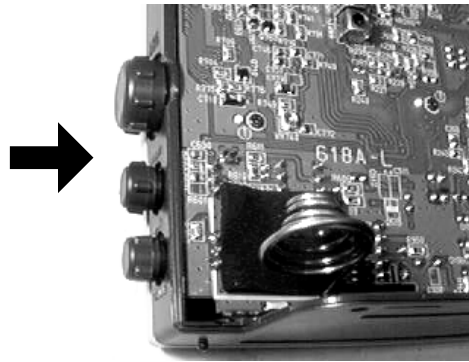
Table 1

DISASSEMBLY

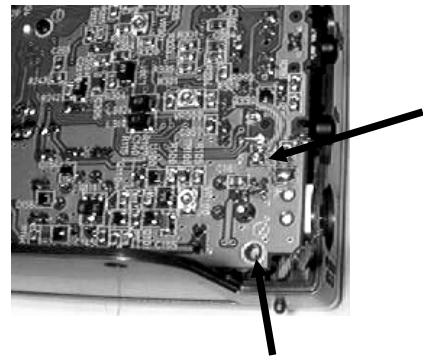
1. Remove the battery case.
2. Remove the three screws and the lower case.



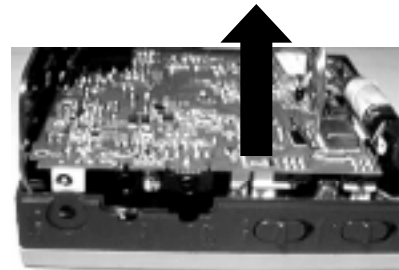
3. Remove the three knobs.



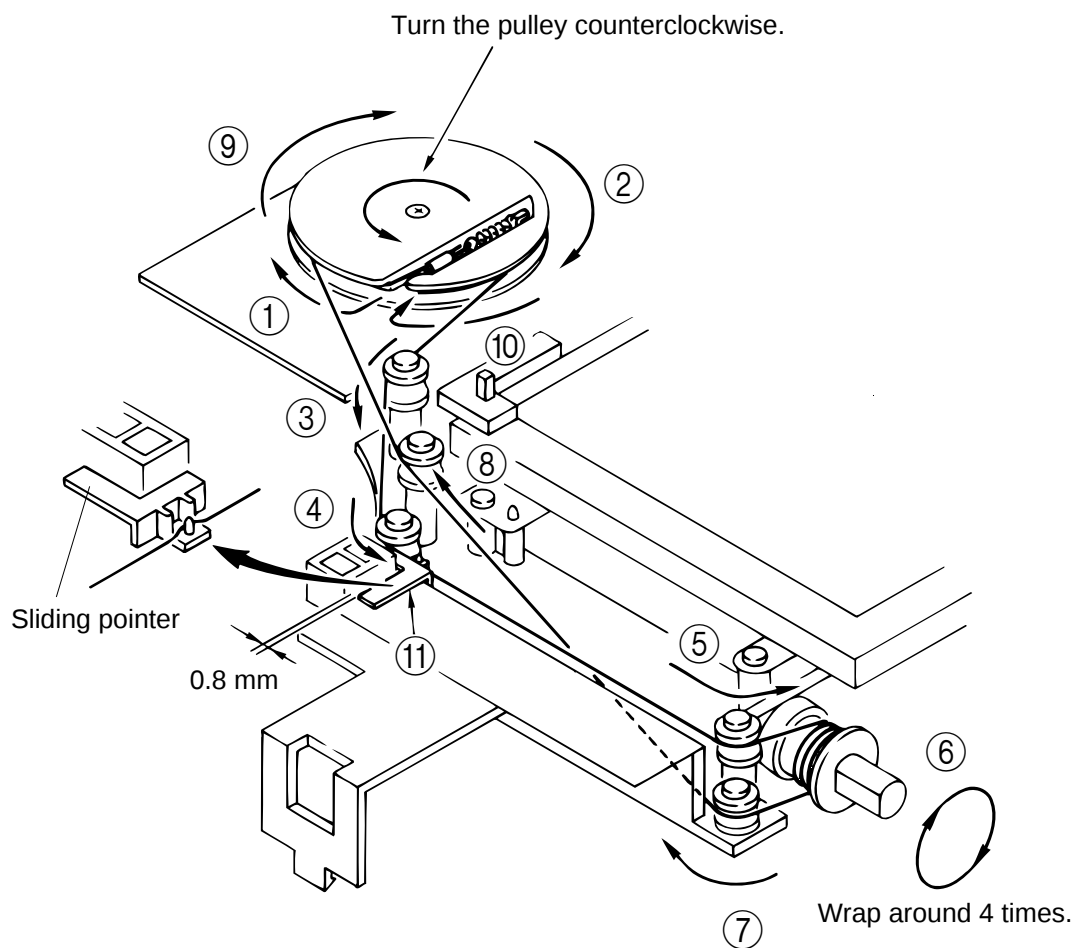
4. Remove the screw and resolder the two wires for the speaker.



5. Remove the PCB ass'y.



DIAL STRINGING DIAGRAM



ADJUSTMENT

TV

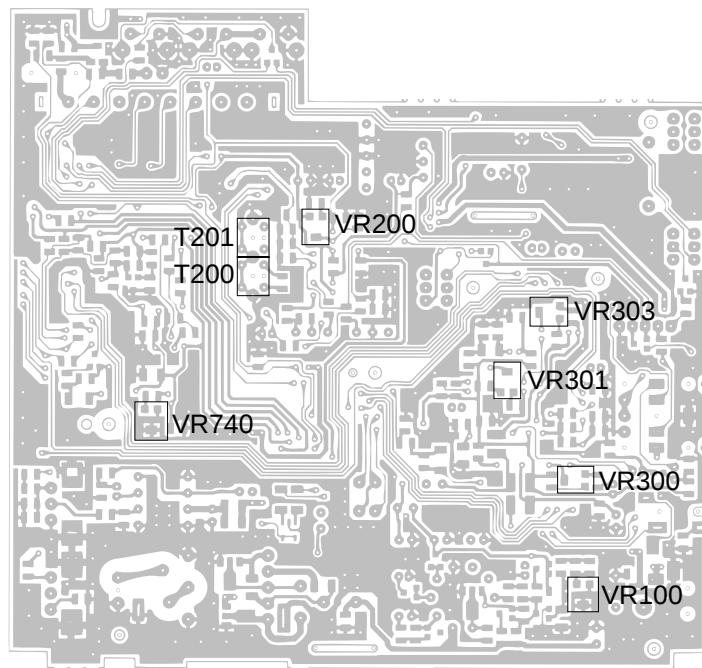
Items to Be Adjusted

Item	Measuring Instrument
VCC2-1 voltage setting	Voltmeter
Video detection coil adjustment	TV signal generator, pattern generator, oscilloscope, low-pass filter
AFT coil adjustment	Sweep generator, oscilloscope, voltmeter
Contrast adjustment	TV signal generator, pattern generator, oscilloscope
Tint adjustment	TV signal generator, pattern generator, oscilloscope
AGC adjustment	TV signal generator, pattern generator, IF levelmeter
Vcom adjustment	Photo diode, photo sensor amp., bandpass filter, oscilloscope
Free-Running frequency adjustment	Frequency counter

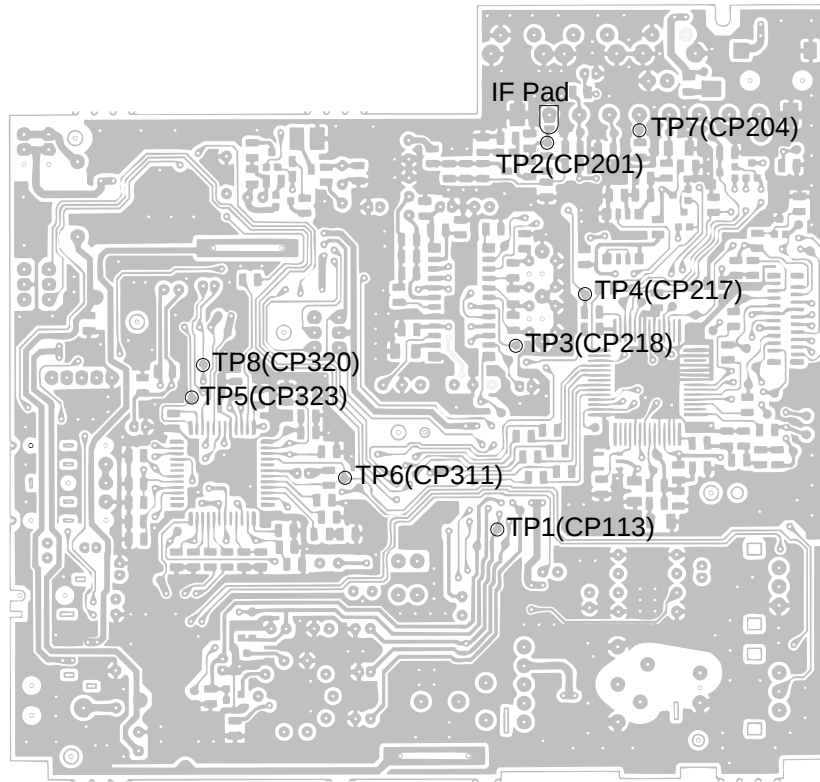
RADIO

When the radio is defect, replace the radio PCB unit.

Adjustment and Test Point Locations



Top View



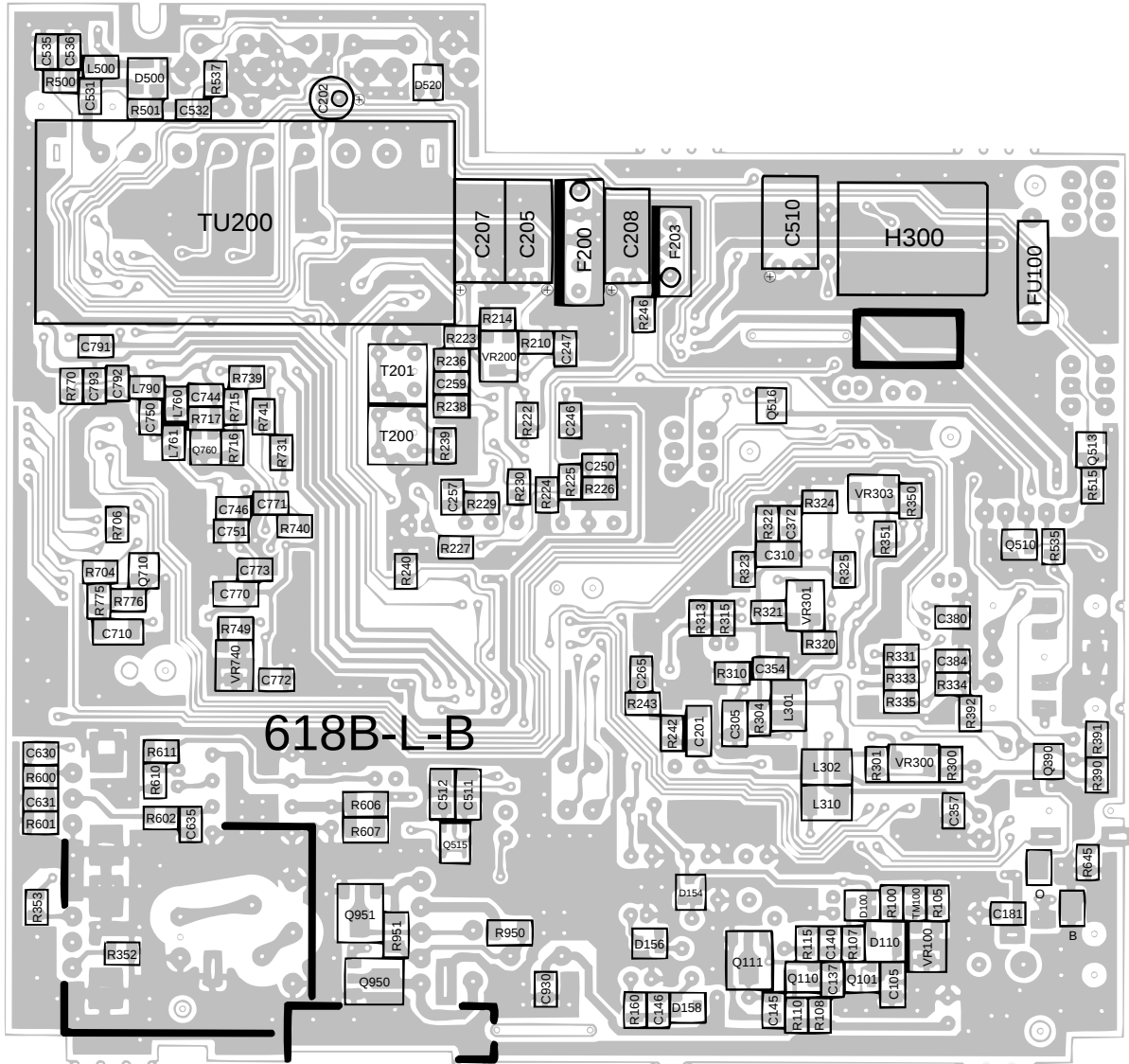
Bottom View

Equipment Connection / Adjustment Procedure

VCC2-1 Voltage Setting						
EV-2500 set Output TP1 Voltmeter						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
_____	_____	_____	VR100	Voltmeter	TP1	Adjust to obtain a 4.50 ± 0.02 V reading on the voltmeter.

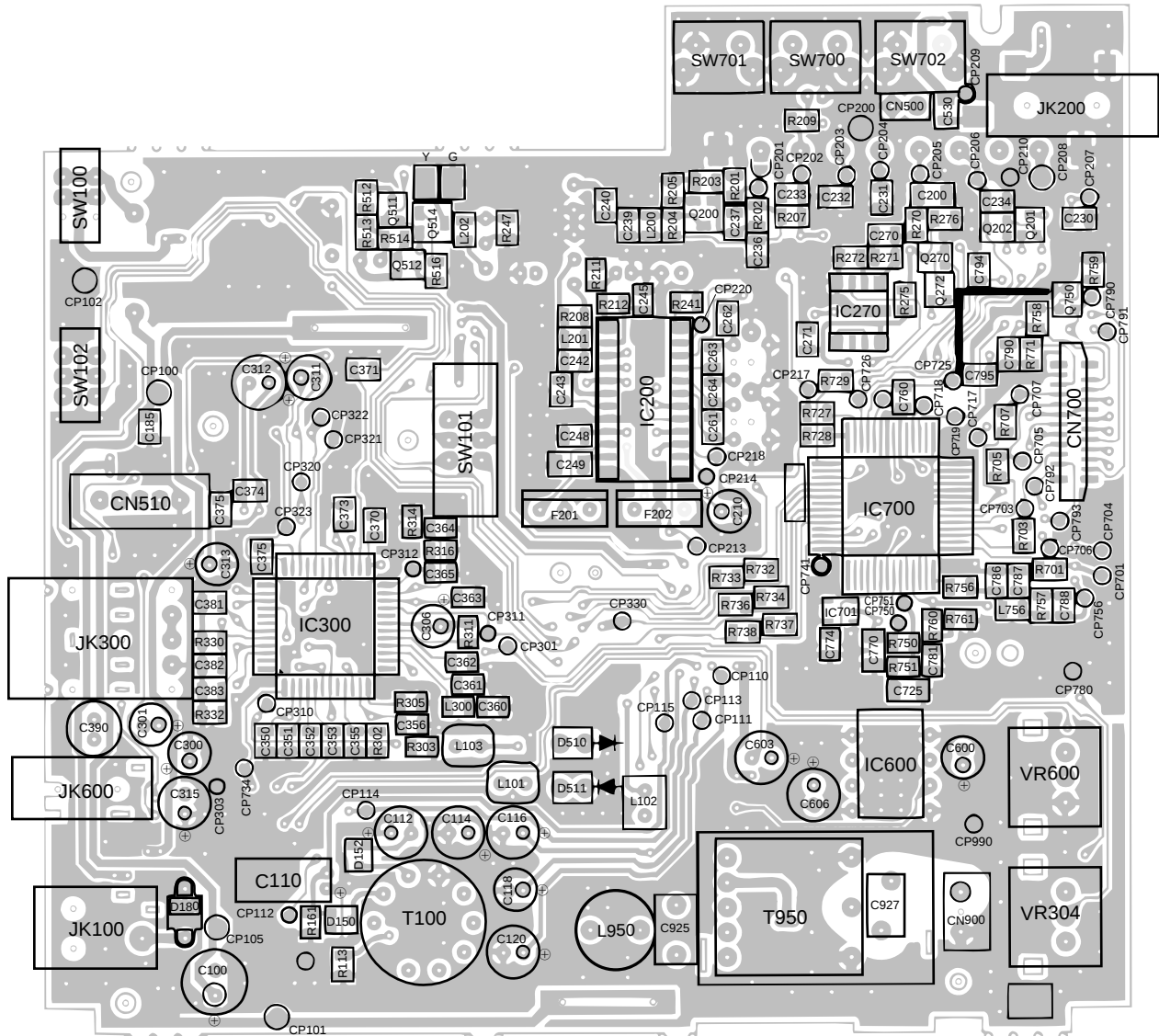
PRINTED CIRCUIT BOARDS

TV



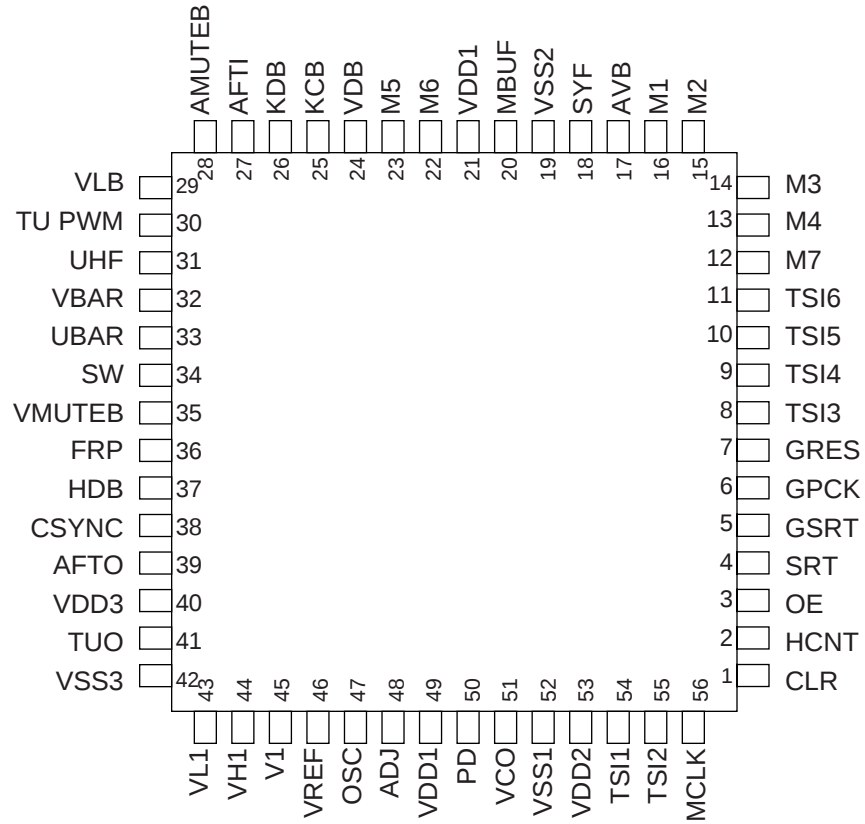
Top view

TV

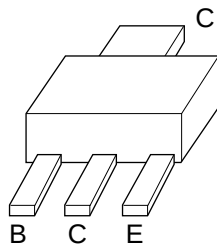


Bottom view

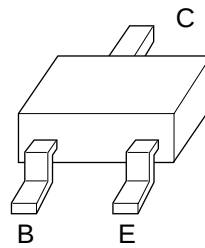
IC700 MSM6770GS



TRANSISTORS

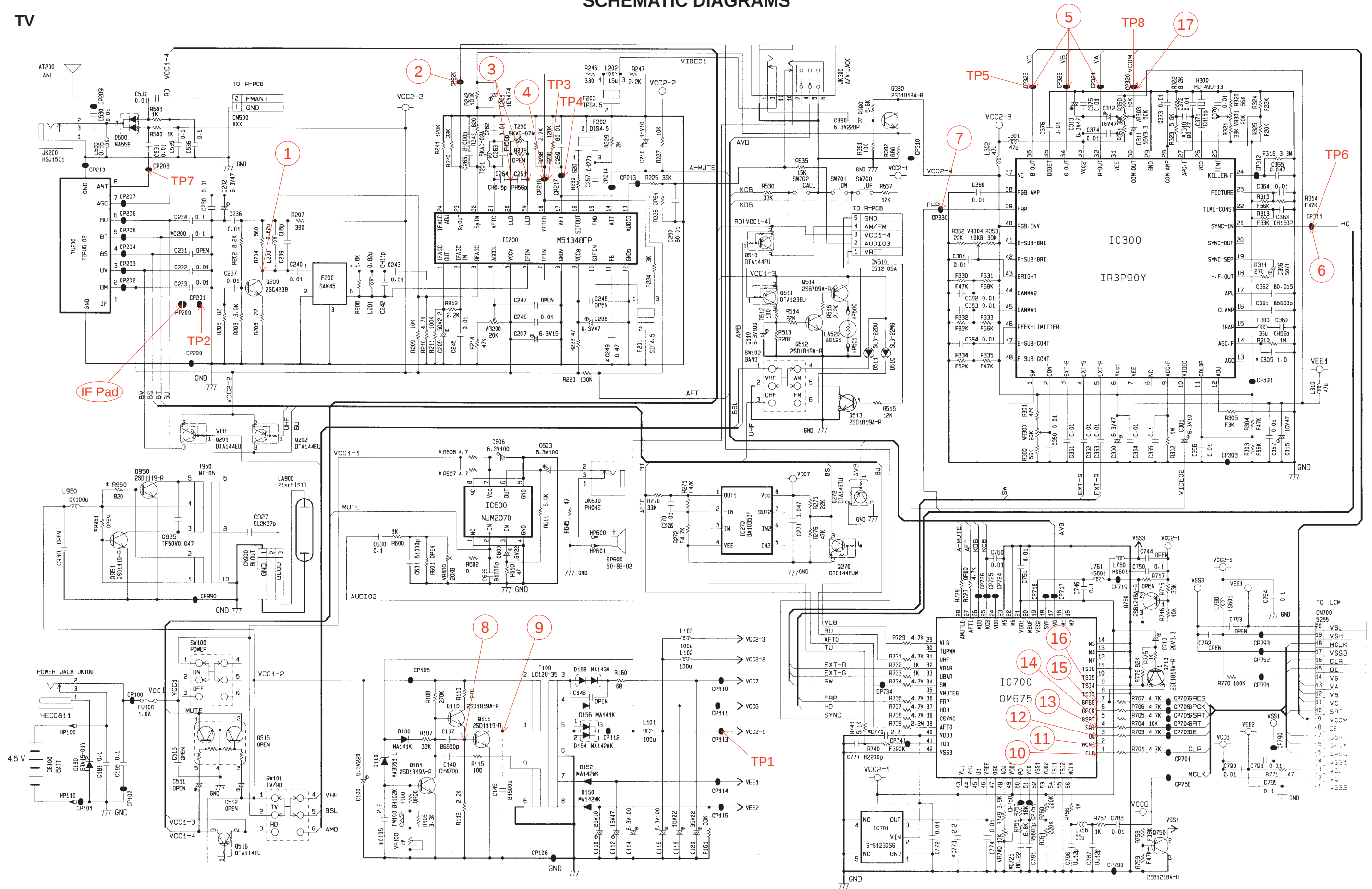


2SD1119



2SB1218A 2SC4238
2SD1819A
DTC144EUW
DTA143TUW

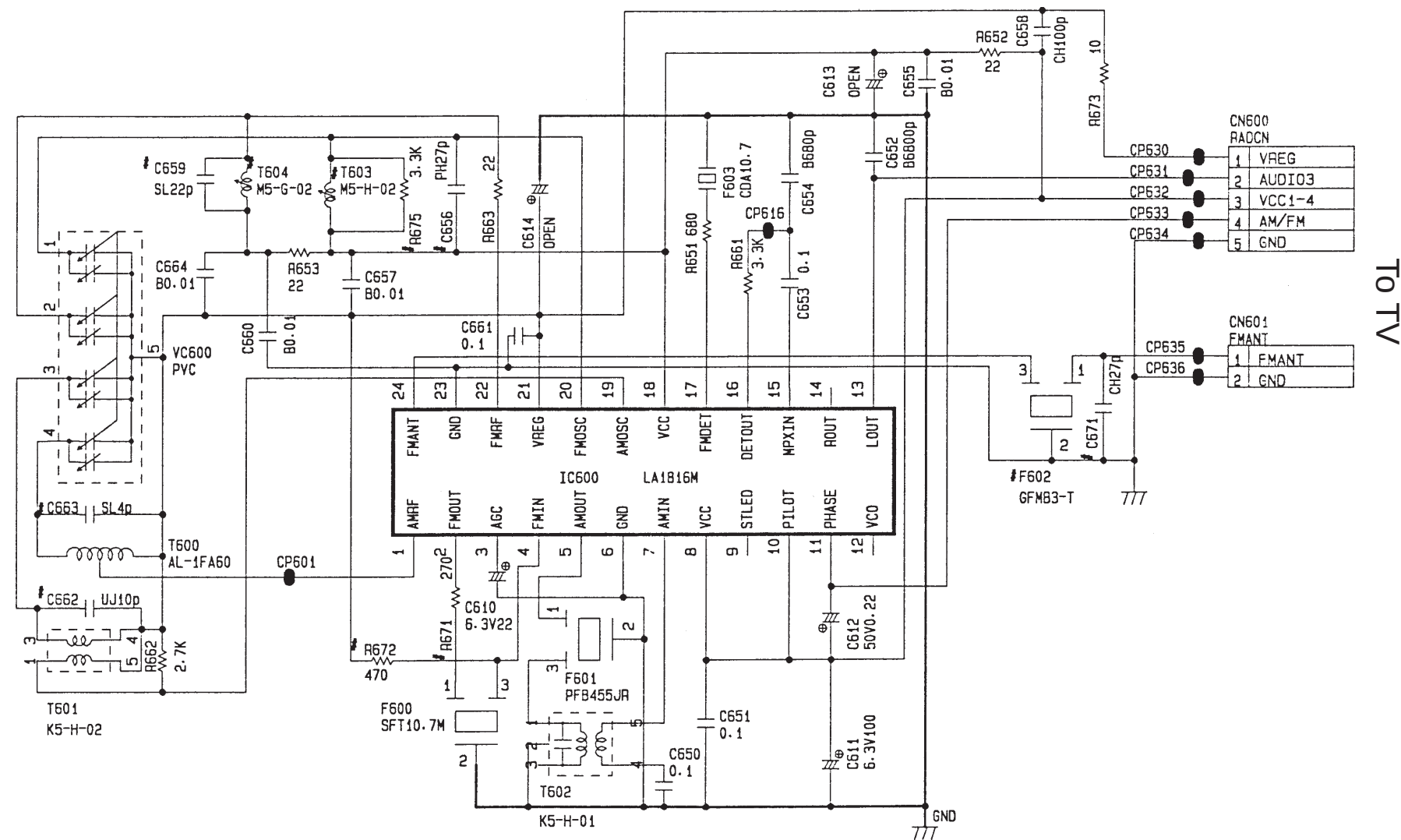
SCHEMATIC DIAGRAMS



Notes:

1. All resistance values are indicated in "ohms" ($k=10^3$ ohms, $M=10^6$ ohms).
2. All capacitance values are indicated in " μF " ($p=10^{-6}$ μF).
3. All inductance values are indicated in " μH ".

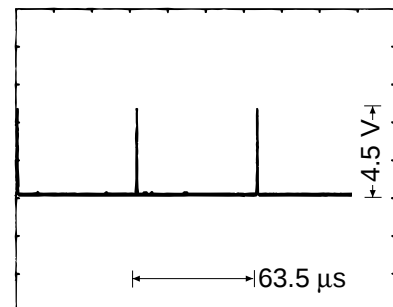
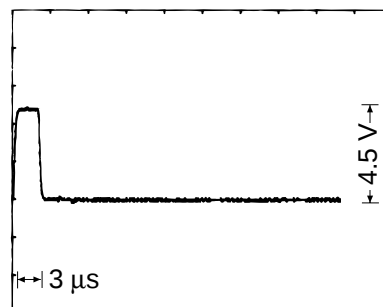
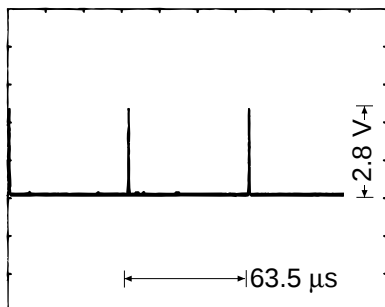
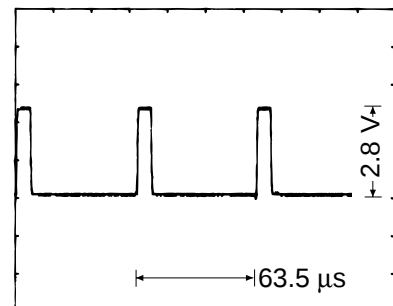
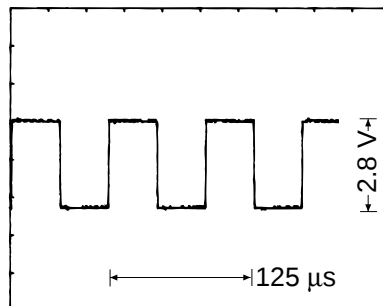
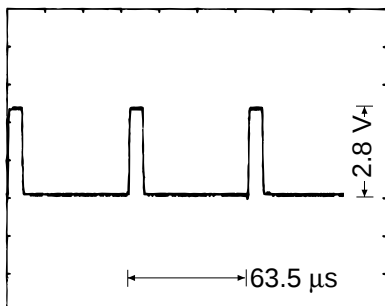
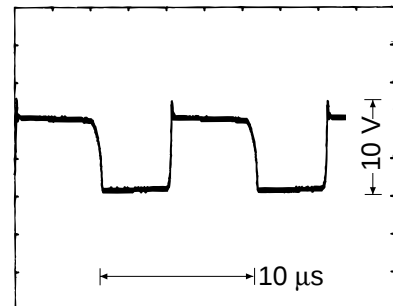
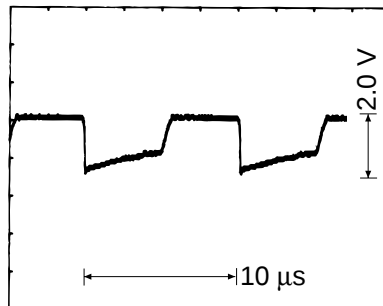
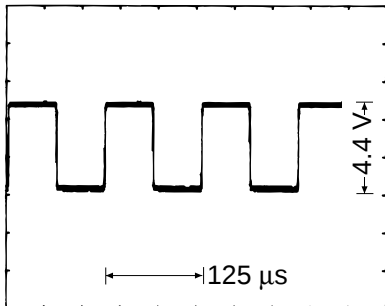
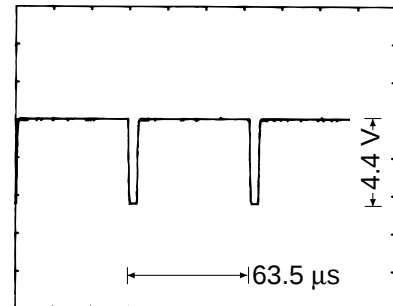
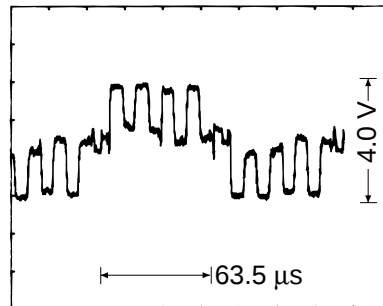
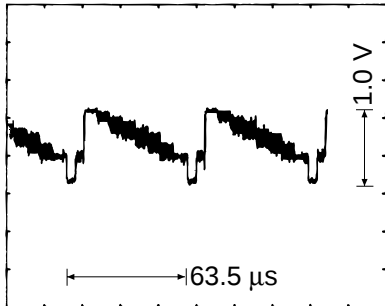
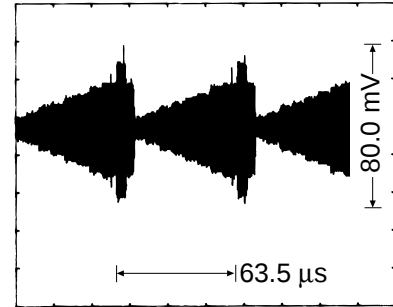
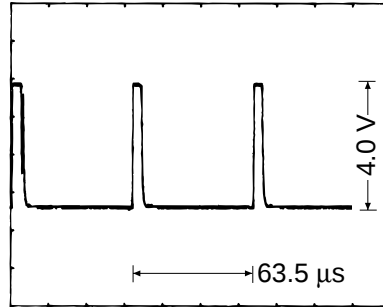
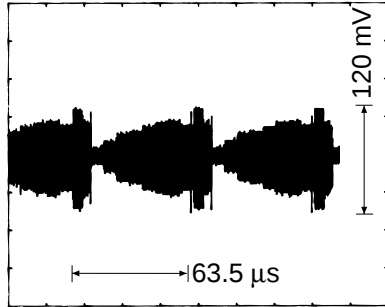
RADIO

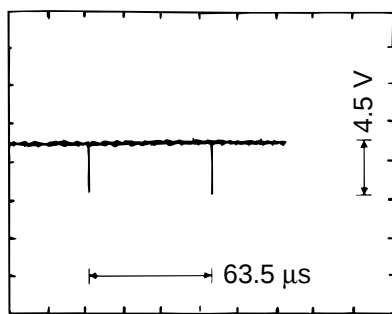


Notes:

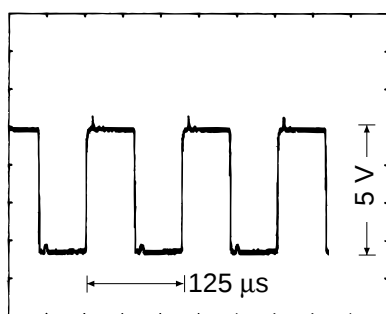
1. All resistance values are indicated in "ohms" ($k=10^3$ ohms, $M=10^6$ ohms).
2. All capacitance values are indicated in " μF " ($p=10^{-6}$ μF).
3. All inductance values are indicated in " μH ."

WAVEFORMS





⑩ IC700 pin 7



⑪ IC300 pin 30