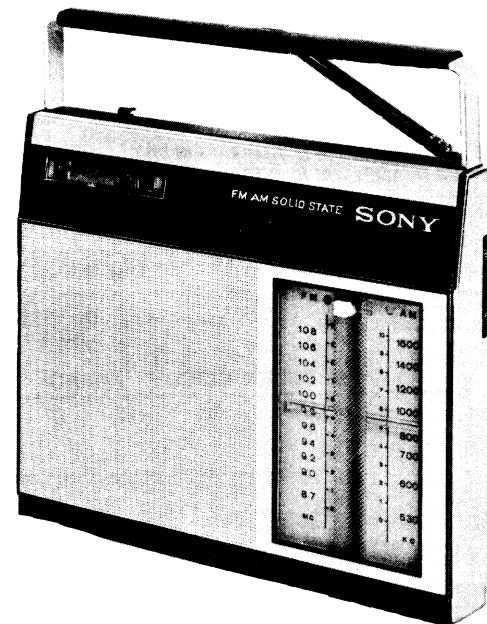
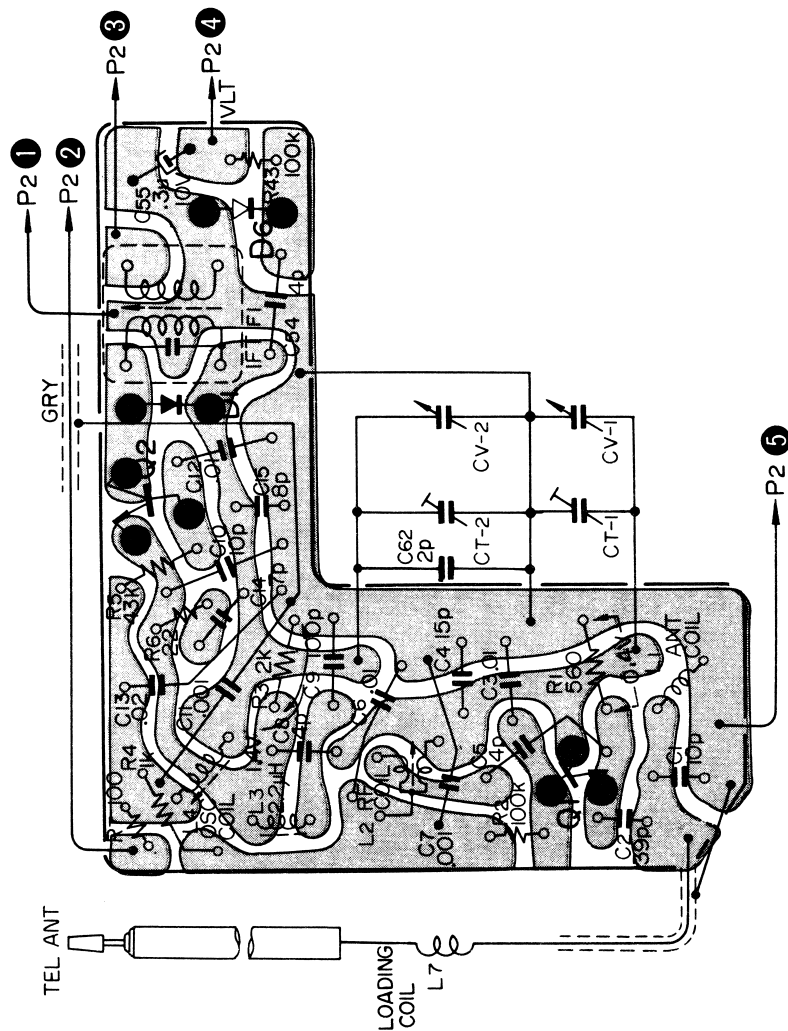


## MOUNTING DIAGRAM FM Tuner Circuit Board P1

— Conductor Side —

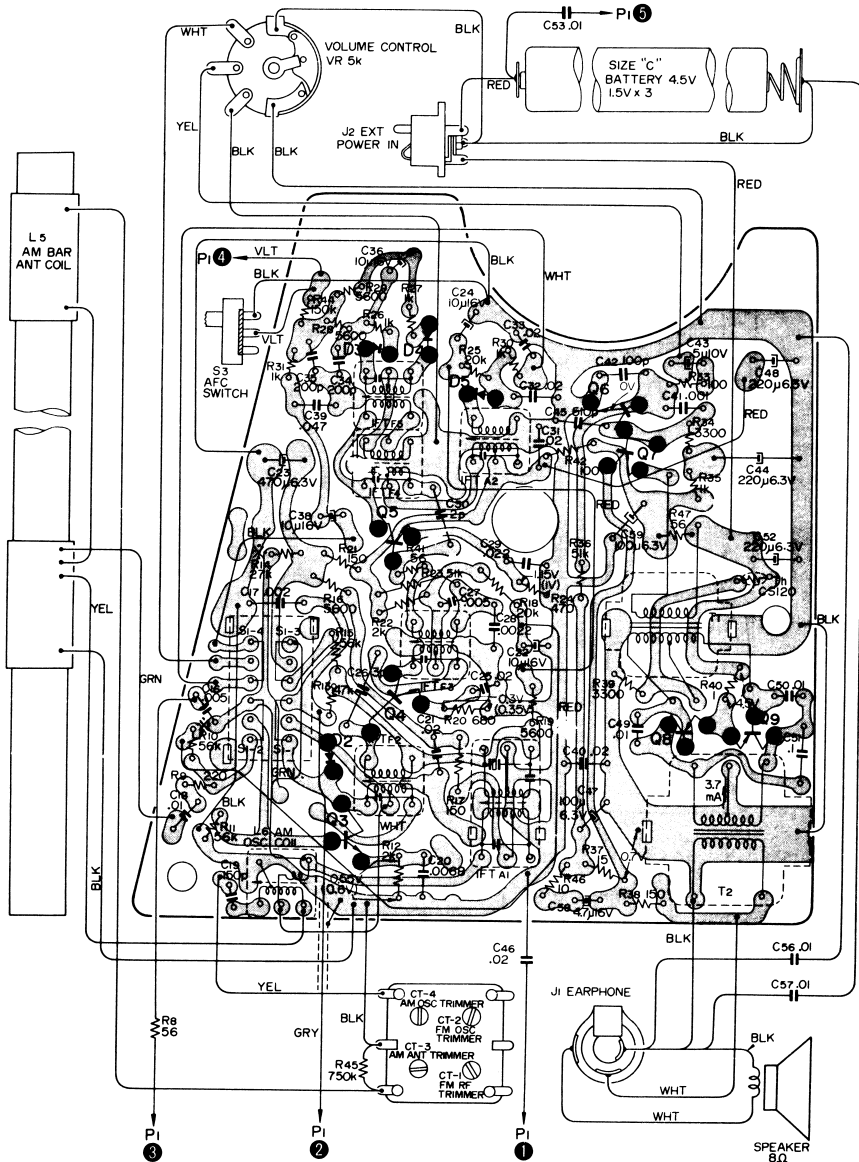


### SPECIFICATIONS

- Circuit System:** 9-transistor 6-diode superheterodyne
- Frequency Coverage:** FM 87~108 MHz (3.45~2.78 m)  
AM 530~1,605 kHz (566~187 m)
- Intermediate Frequency:** FM 10.7 MHz  
AM 455 kHz
- Antenna System:** FM built-in telescopic antenna  
AM built-in ferrite bar antenna
- Power Requirements:** Three "C" size flashlight batteries,  
4.5 V in total or house current by using  
"SONY" ac adaptor
- Power Output:** 350 mW (undistorted)  
500 mW (maximum)
- Current Drain:** 16 mA (FM), 12.2 mA (AM) at zero signal  
225 mA at 500 mW output
- Maximum Sensitivity:** FM 1.6  $\mu$ V  
(at 50 mW output) AM 78  $\mu$ V/m
- Selectivity:** 21dB at 10 kHz off resonance, at 1,400 kHz
- Speaker:** 3 1/2" (92 mm) 8  $\Omega$
- Dimensions:** 6 7/8" (W) x 5 1/2" (H) x 1 13/16" (D)  
(175 mm x 140 mm x 46 mm)
- Weight:** 1 lb 10 oz (750 g) with batteries

# MOUNTING DIAGRAM IF-AF Circuit Board P2

—Conductor Side—



**Note:**

R47, C23, C44: mounted on the conductor side.  
Resistor marked with  $\phi$  is to be selected in value.

Printed circuit board  
Part No. 1-538-910-14

Sony 6F-19WA

S37-1

SCHMATIC DIAGRAM

Q1 2SC629  
(FM RF AMP)

Q2 2SC629  
(FM CONV)

Q3 2SC403A  
(FM IF AMP1)  
(AM CONV)

Q4 2SC403A  
(FM IF AMP2)  
(AM IF AMP1)

Q5 2SC403A  
(FM IF AMP2)  
(AM IF AMP2)

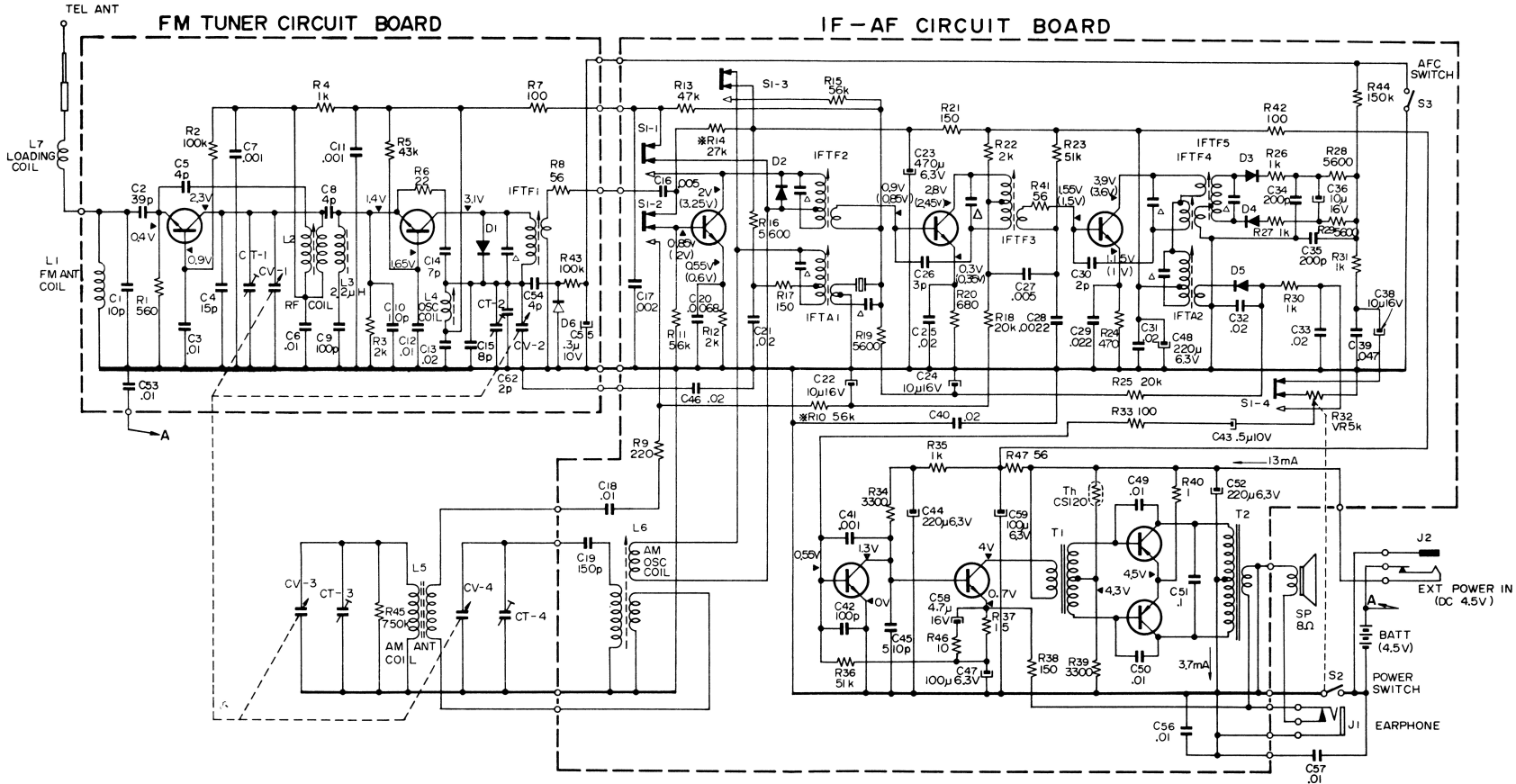
D1 IT26  
(LIMITER)

D6 IT243  
(AFC)

D2 IT261

D3 IT261  
(FM RATIO DET)

D5 IT23  
(AM DET)



Note:

1. All resistors and capacitors are in  $\Omega$  and  $\mu\text{F}$ , unless otherwise indicated.
2. Capacitor marked with  $\Delta$  is built in  $\pi$ -f transformer and ceramic filter.
3. Resistor marked with  $\times$  is to be selected in value.
4. Voltage value is measured to ground circuit with a dc voltmeter (20 k $\Omega$ /V) and current value is measured with a dc ammeter. Voltage and current values are taken with no radio signal received and the values shown in ( ) are taken with band selector set to AM. Variations may be noted due to normal production tolerances.

Q6 2SC633  
(AF AMP 1)

Q7 2SC633  
(AF AMP 2)

Q8 2SB136  
(POWER AMP)