

CFS-B5LMK2

SERVICE MANUAL

East European Model

Ver 1.0 1999.05



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MF-B5MK2-117

SPECIFICATIONS

Frequency range

FM: 65.0 - 108 MHz
MW: 531 - 1,602 kHz
LW: 153 - 279 kHz
SW: 5.95 - 18 MHz

Aerials

FM/SW: Telescopic antenna
MW/LW: Built-in ferrite bar

Recording system

4-track, 2-channel stereo

Frequency response

70 - 10,000 Hz

Speakers

Full range: 10 cm (4 inches) dia.,
2.8 ohms cone type × 2

Output

Headphones jack (stereo minijack),
for 16 - 68 ohms impedance headphones

Maximum power output

2.5 W + 2.5 W

Battery life

FM recording

Sony R20P: approx. 16 hours

Sony LR20 alkaline: approx. 36 hours

Playback

Sony R20P: approx. 8 hours

Sony LR20 alkaline: approx. 21 hours

Power requirements

230 V AC, 50 Hz

9 V DC, six R20 (size D) batteries

Power consumption

AC 14 W

Dimensions

Approx. 500 × 155 × 164 mm (w/h/d)
(19 3/4 × 6 1/8 × 6 1/2 inches) incl. projecting parts
and controls, not incl. handle

Mass

Approx. 2.7 kg (5 lb. 15 oz.) not incl. batteries

Supplied accessory

Mains lead (1)

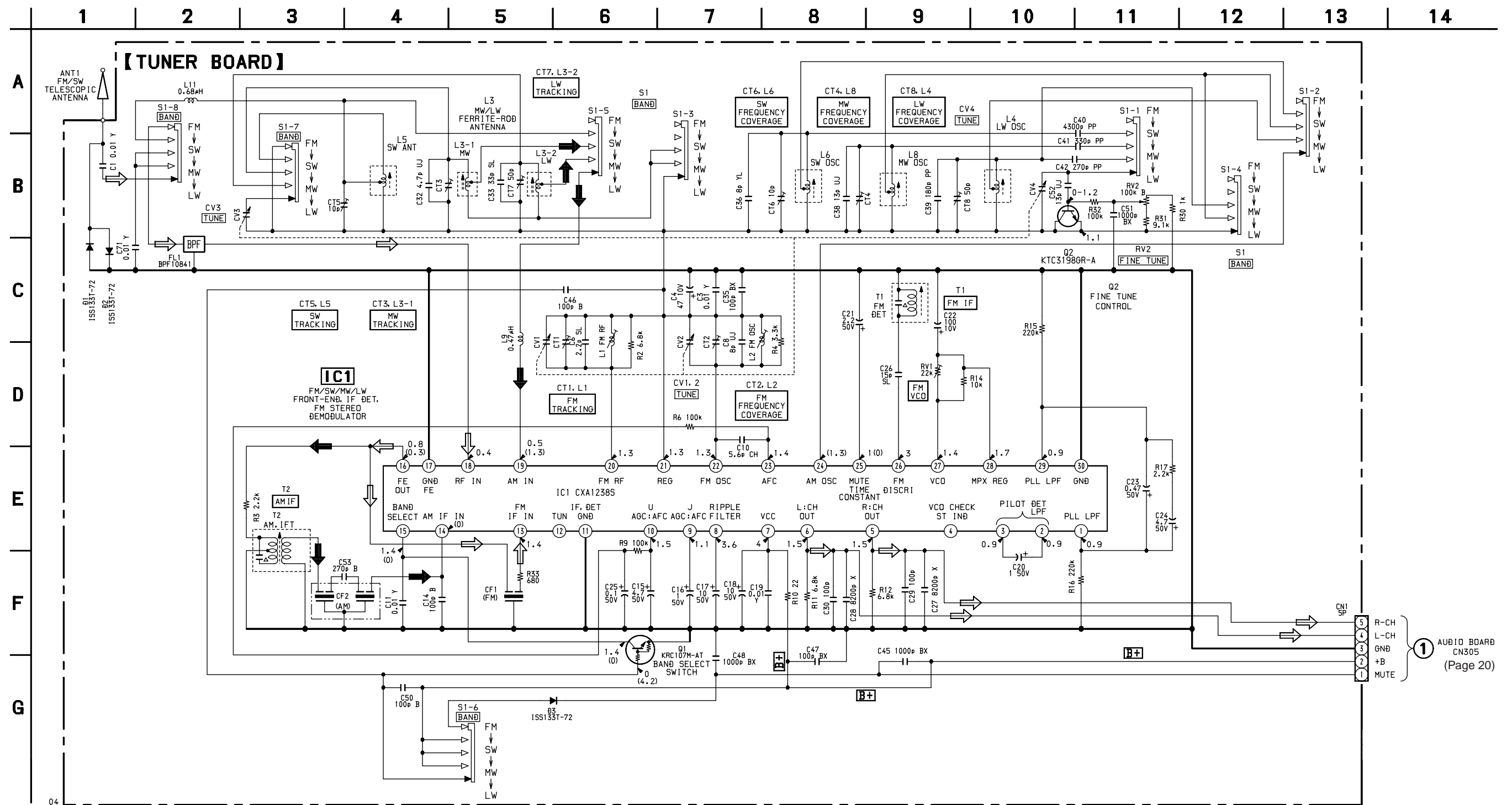
Design and specifications are subject to change without
notice.

RADIO CASSETTE-CORDER







SONY®

5-4. SCHEMATIC DIAGRAM — TUNER SECTION — • Refer to page 13 for IC Block Diagram.

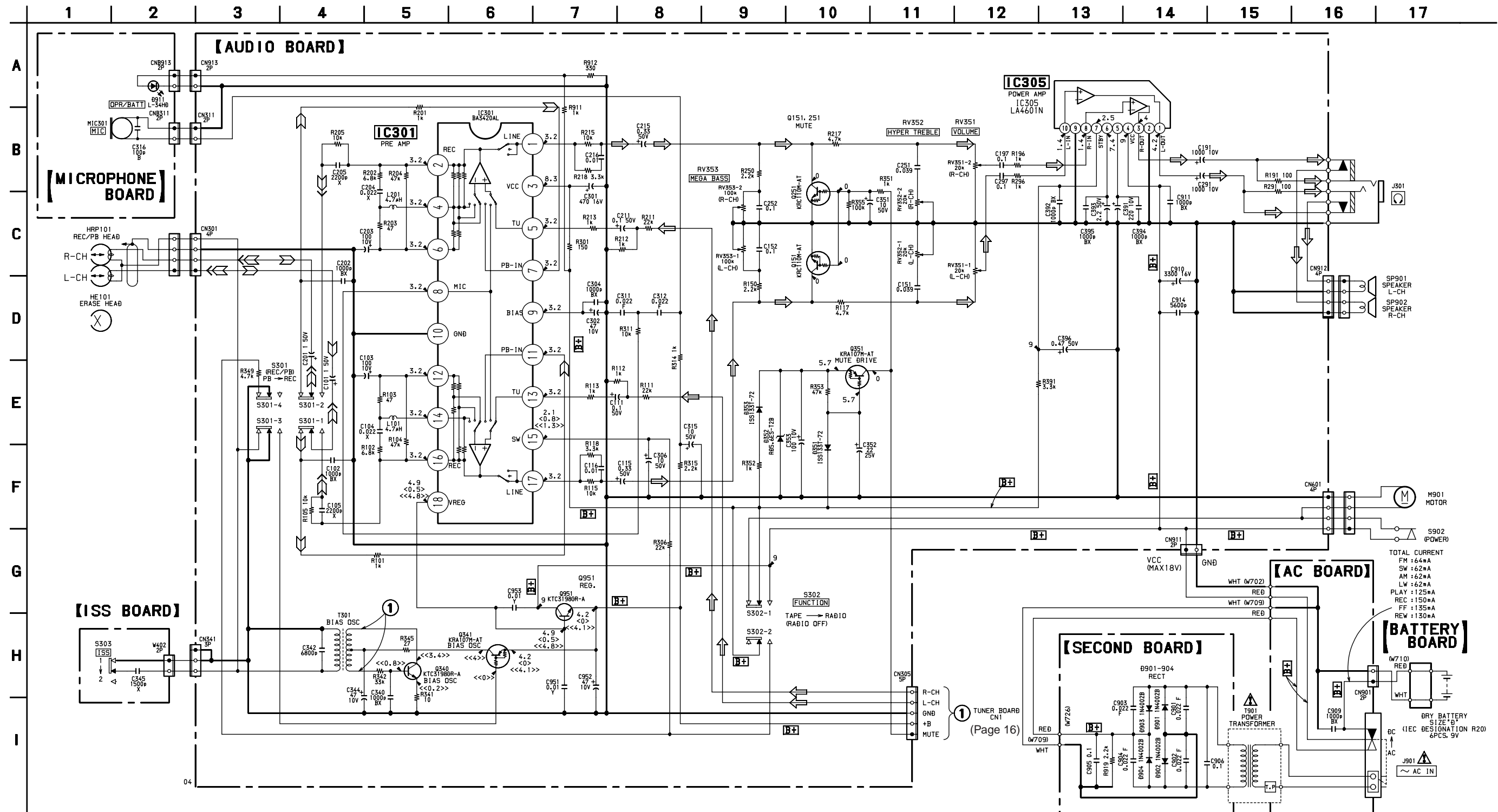


Note:

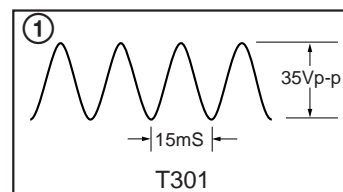
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4 \text{ W}$ or less unless otherwise specified.
- Δ : internal component.
-  : panel designation.
-  : B+ Line.
-  : adjustment for repair.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.

- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM
() : MW/LW, SW
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.

 - ⇨ : FM/SW
 - ➡ : MW/LW

5-6. SCHEMATIC DIAGRAM — MAIN SECTION —





- **Waveform** (MODE:REC)



Note:

- All capacitors are in μF unless otherwise noted. pF : μpF
50 WV or less are not indicated except for electrolytics
and tantalums.
- : panel designation.

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

- **[B +]** : B+ Line.
 - Total current is measured with no cassette installed.
 - Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
 - Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
 < : PB
 << >> : REC

- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - ➡ : FM
 - : PB
 - : REC