

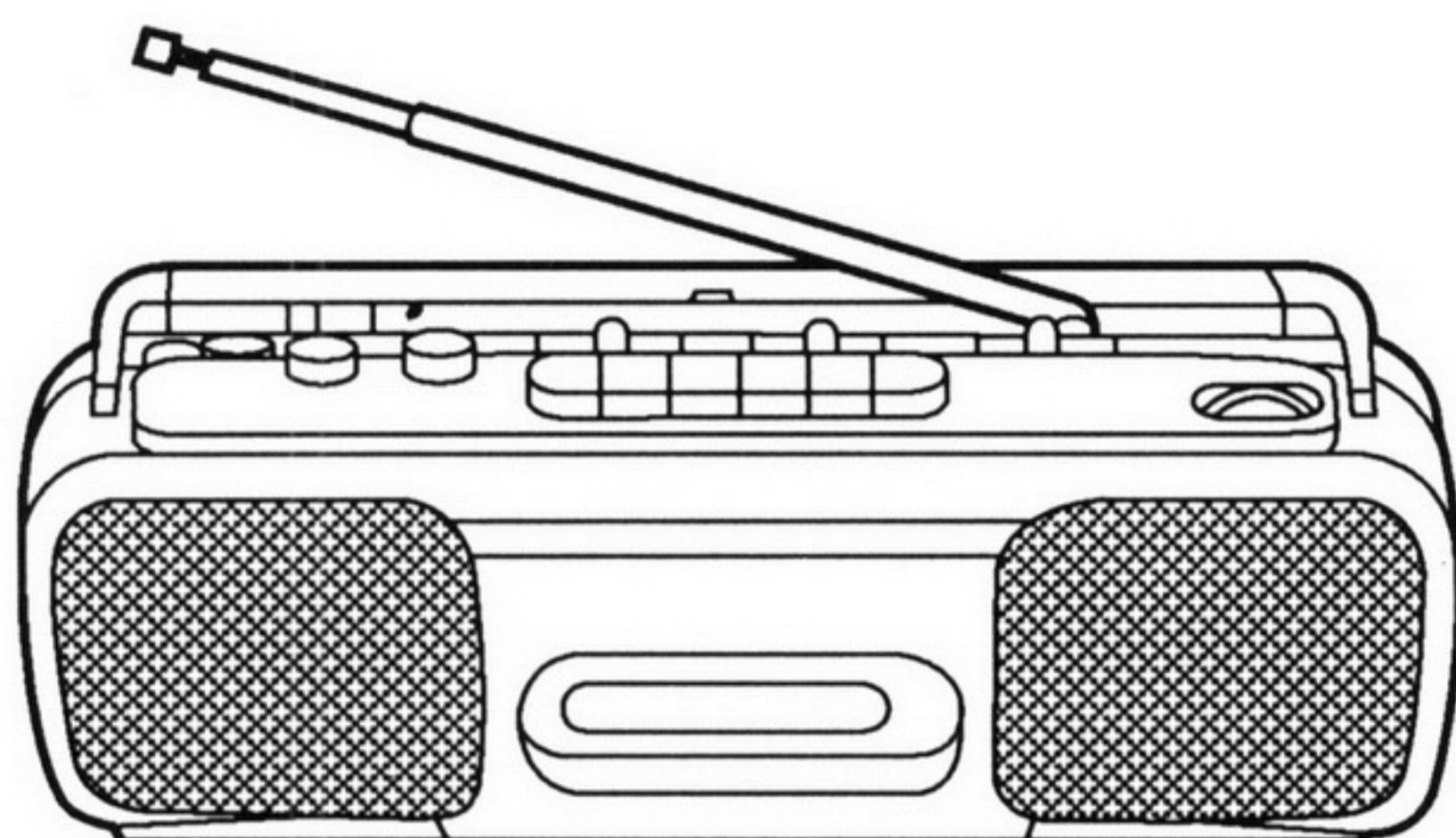
# Service Manual

Stereo-radio/Cassette recorder

Radio Cassette  
**RX-FS21**

Colour

(K) ... Black Type



## Area

Suffix for Model No.	Area	Colour
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany/Italy	

## MECHANISM SERIES (YS28Z-22)

### ■ SPECIFICATIONS

#### ■ Radio

Frequency Range: FM; 87.5—108 MHz  
AM; 520—1610 kHz

#### ■ Tape Recorder

Track System: 4-track, 2-channel, stereo  
Recording System: AC bias, magnet erase  
Monitor System: Variable sound monitor  
Frequency Range: 70 — 8,000 Hz

#### ■ General

Power Requirement: AC; 230 V—240 V, 50 Hz  
Power consumption; 15W  
Battery; 9V (six R6/LR6, "UM-3" batteries)

Power output: 7 W x 2 ... PMPO  
Speakers: 8 cm x 2  
Jack:  
Output; HEADPHONES; 32 Ω  
Dimensions (W X H X D): 361 x 120 x 113 mm  
Weight: 1.7 kg without batteries

#### Notes :

- Specifications are subject to change without notice.
- Weight and dimensions shown are approximate.

# Panasonic



# SCHEMATIC DIAGRAM

1

2

3

4

5

A

B

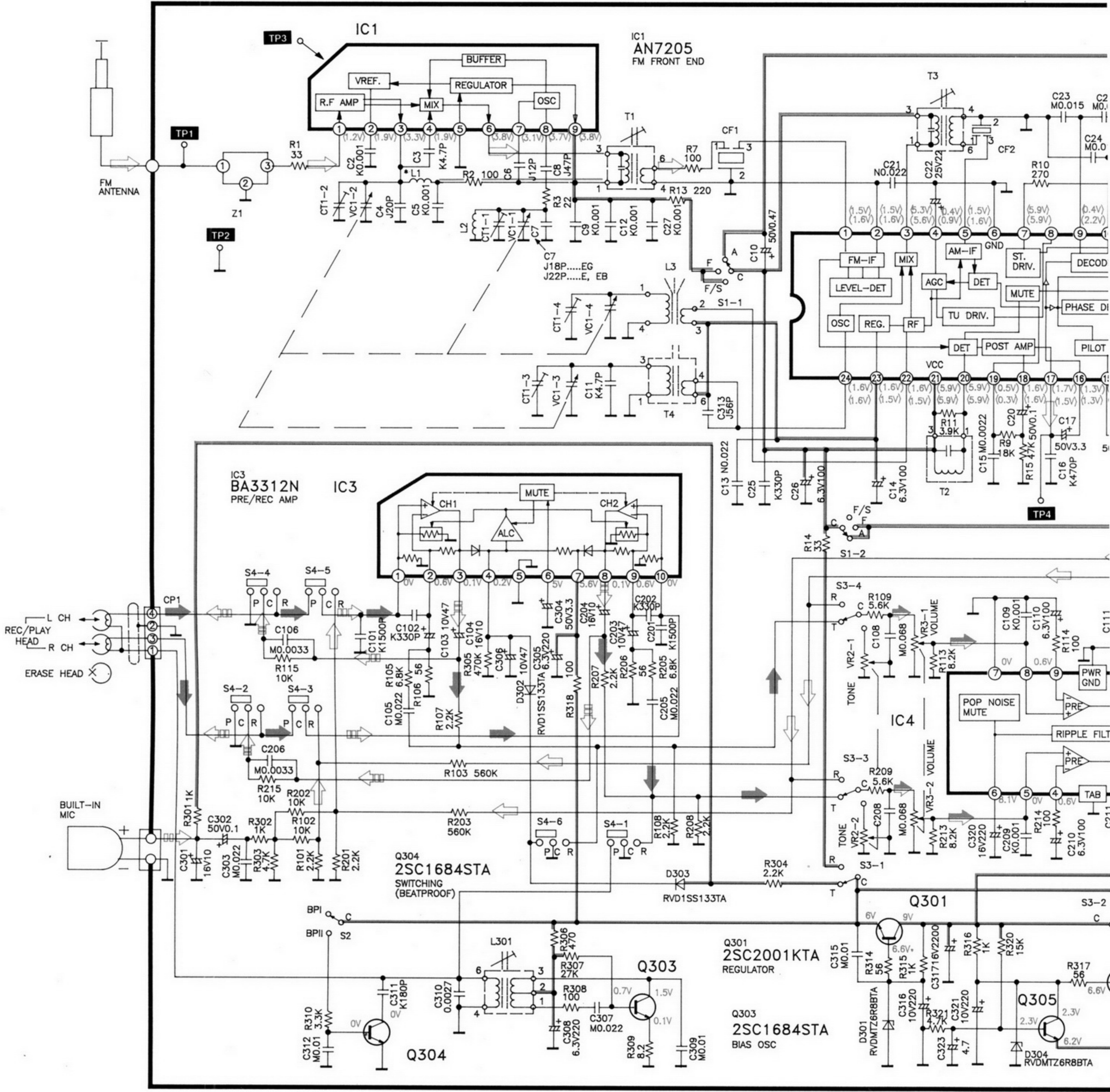
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D

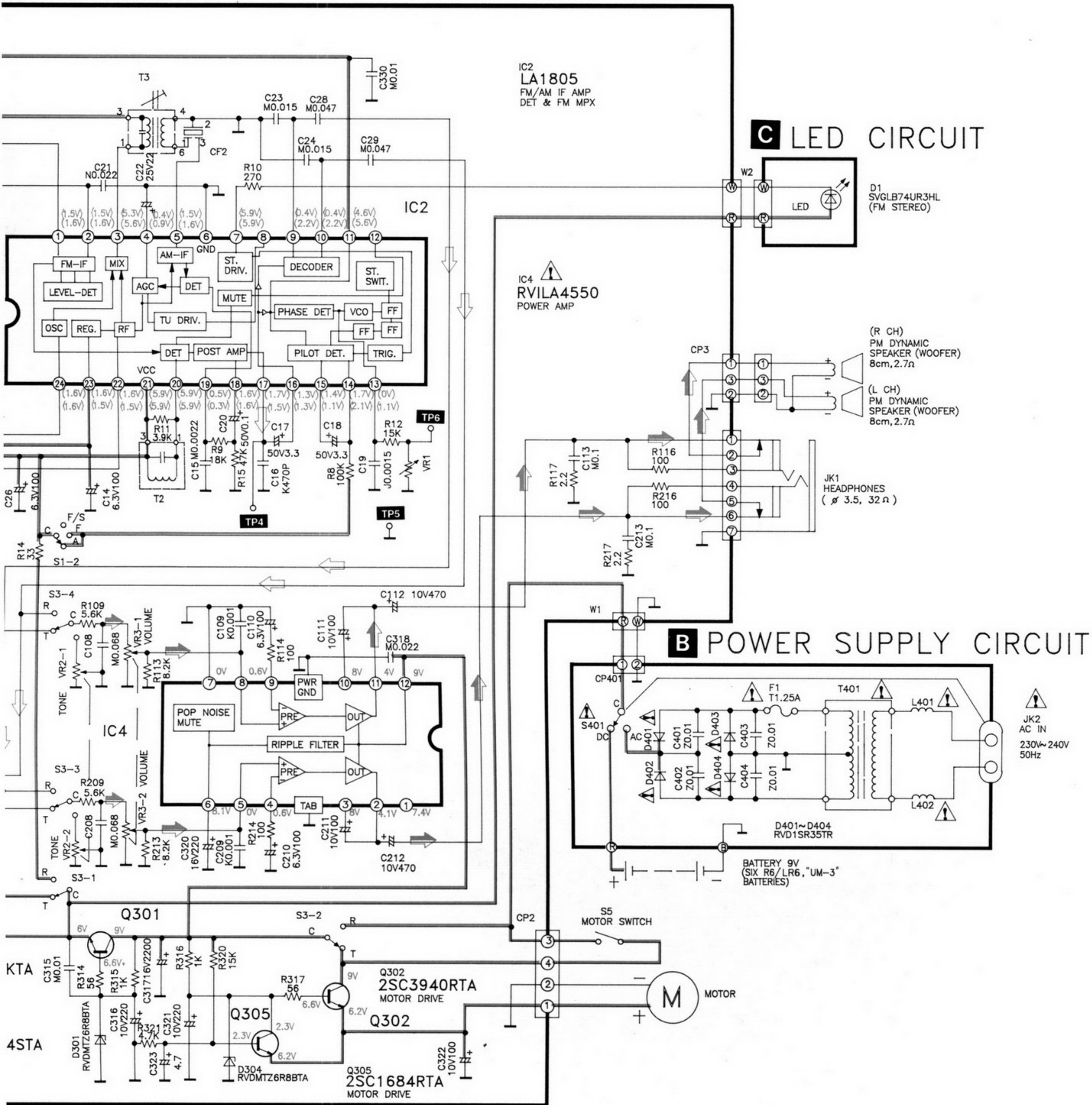
E

F

## A MAIN CIRCUIT









Notes:


1. S1-1 ~ S1-2 : Band select switch in "AM" position.  
(A...AM, F...FM, F/S...FM STEREO)
2. S2 : TAPE mode switch in "BPI" position.  
(BPI...TAPE STEREO, BPII...TAPE MONO)
3. S3-1 ~ S3-4 : Function select switch in "TAPE" position.  
(T...TAPE, R...RADIO)
4. S4-1 ~ S4-6 : Record/playback switch in "PLAYBACK" position.  
(P...PLAYBACK, R...RECORD)
5. S5 : Motor switch in "OFF" position.
6. S401 : AC/DC select switch in "DC" position.
7. VR1 : FM VCO adjustment VR.
8. VR2-1, VR2-2 : Tone control VR.
9. VR3-1, VR3-2 : Volume control VR.
10. DC voltage measurements are taken with electronic voltmeter.  
The negative terminal of the battery provides negative meter connection point.


No mark ... PLAYBACK, ( ) ... AM, < > ... FM

11. Battery Current : Vol. min..... 63 mA (Radio)  
742 mA (Playback)  
Vol. max..... 146 mA (Radio)  
813 mA (Playback)  
841 mA (Recording)

Measurement condition:  
 ( Radio : FM 60 dB, 30% Mod.  
     AM 74 dB/m, 30% Mod.  
   Tape : 315 Hz, 0 dB )

12. Important safety notice:

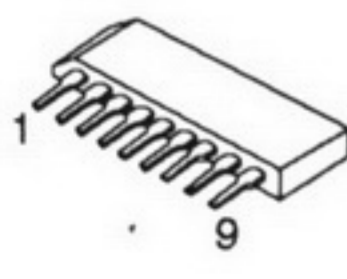
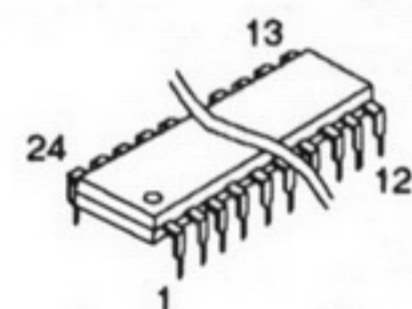
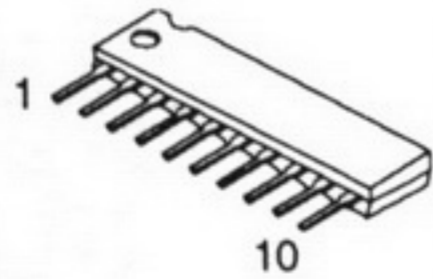
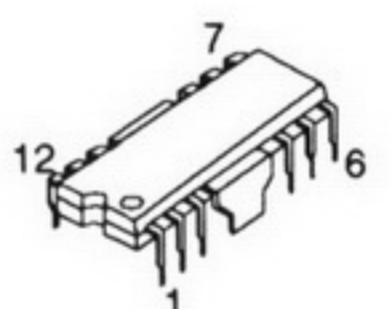
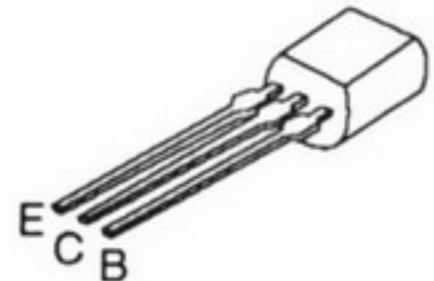
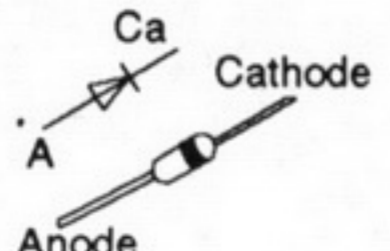
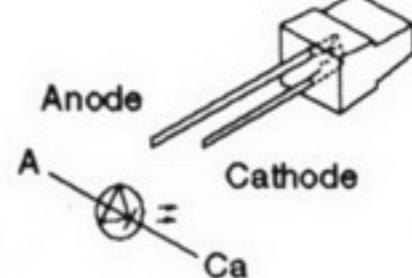
Components identified by  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.

13. The mark (  ) shows test point. e.g. **TP1** = test point 1.

• This schematic diagram may be modified at any time with the development of new technology.



**■ TERMINAL GUIDE OF ICs, TRANSISTORS AND DIODES**

<p>AN7205</p> 	<p>LA1805</p> 	<p>BA3312N</p> 	<p>RVILA4550</p> 
<p>2SC2001KTA 2SC3940RTA 2SC1684STA 2SC1684RTA</p> 	<p>RVD1SS133TA RVD1SR35TR</p> 	<p>SVGLB74UR3HL</p> 	
<p>RVDMTZ6R8BTA</p> 