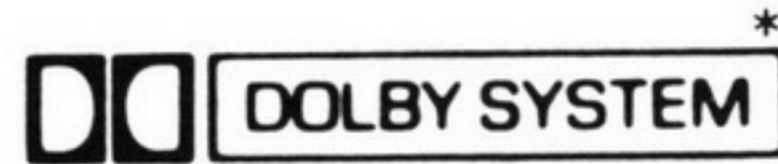


# Service Manual

Radio Cassette

## RQ-V203



Stereo Radio Cassette Player

Colour

(K)..... Black Type

Area

Suffix for Model No.	Areas	Colour
[EG]	Europe	(K)



\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

### ■ SPECIFICATIONS

#### General:

Power Requirement: Battery; 3V  
[Two "AA" size, (R6/LR6) batteries]  
AC; with optional AC adaptor  
RP-AC31

Power Output: 12mW (6.0mW x 2) ... RMS (max.)

Input: DC IN; 3V (  $\diamond$ - $\square$ - $\diamond$  )

Output: Headphones; 16  $\Omega$ ,  $\phi$ 3.5

Dimensions: 114.3(W) x 86.6(H) x 37.9(D)mm

Weight: 185g without batteries

#### Radio Section:

Radio Frequency Range: FM; 87.5~108MHz (0.05MHz step)  
AM; 522~1611kHz (9kHz step)

Intermediate Frequency: FM; 10.7MHz  
AM; 459kHz

Sensitivity: FM; 5.62  $\mu$ V/0.5mW output  
(-3dB Limit, Sens)  
AM; 398  $\mu$ V/m/0.5mW output

#### Tape Deck Section:

Frequency Response: 40~16,000Hz (Normal, CrO<sub>2</sub>/Metal)

Tape Speed: 4.8cm/s

Program Time: 1 hour with C-60 cassette tape

Track System: 4-track, 2-channel stereo playback

#### Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

### ⚠ WARNING

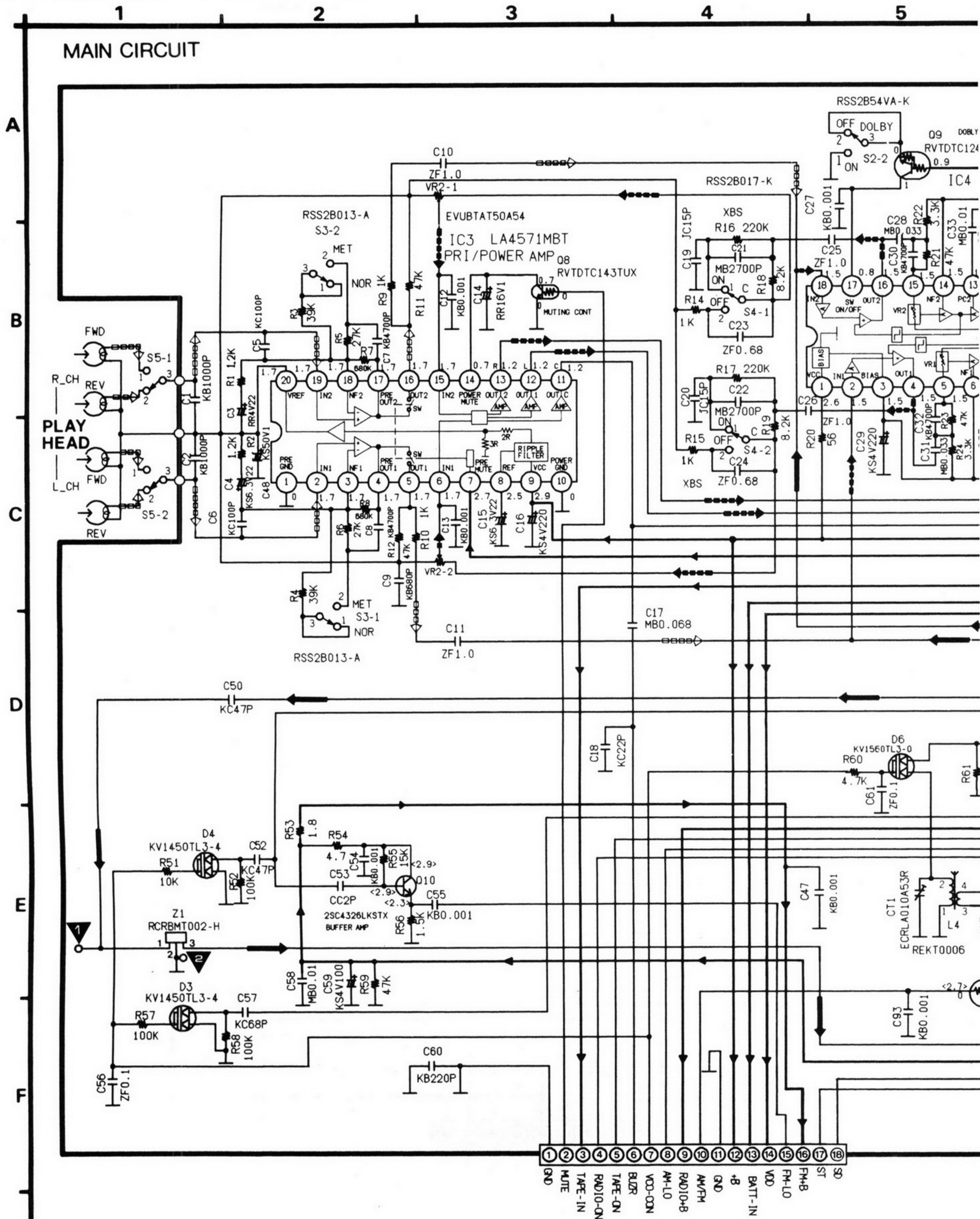
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# SCHEMATIC DIAGRAM









# SCHEMATIC DIAGRAM

## LCD CIRCUIT

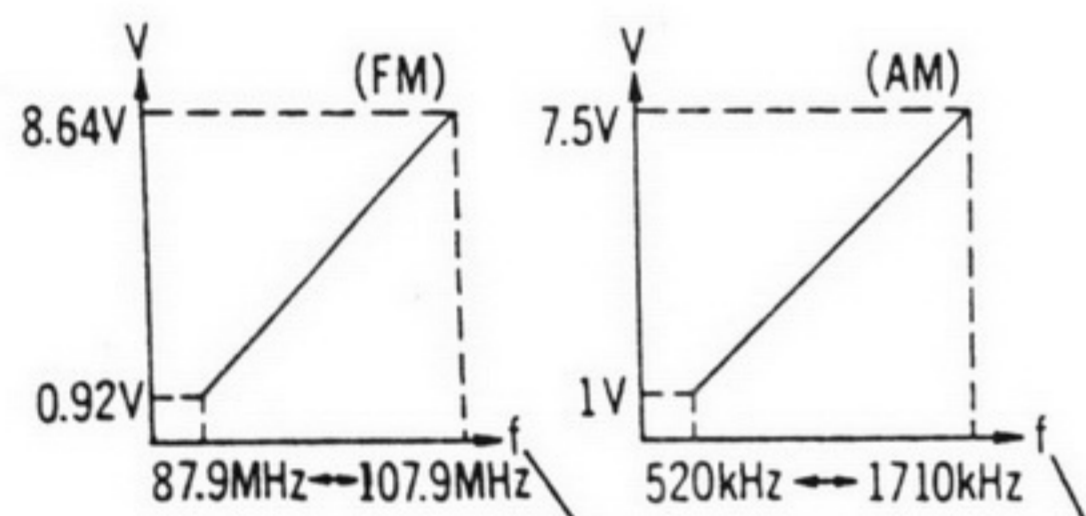
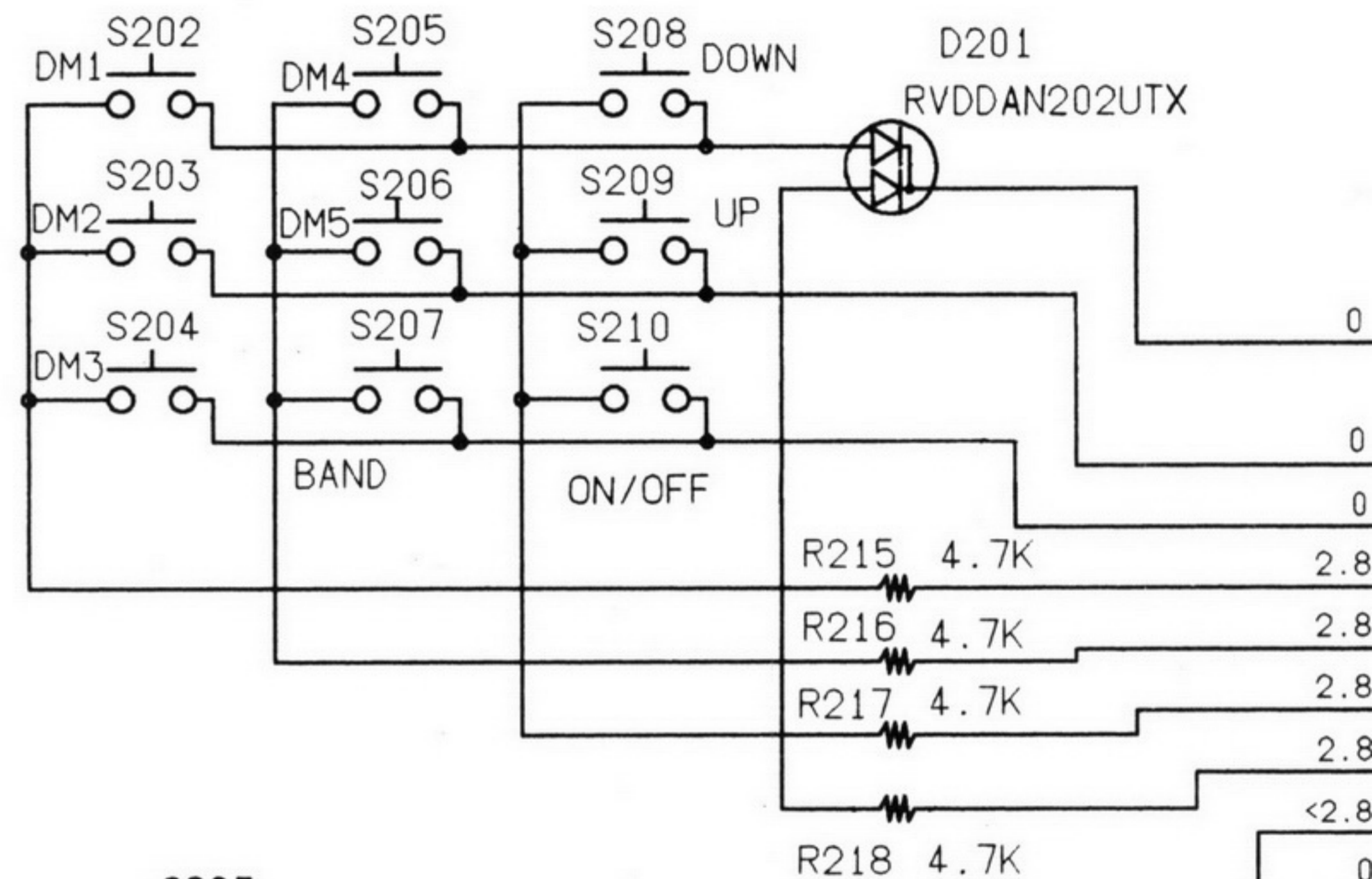
**Notes:**

- S1: Motor switch in "OFF" position.
- S2-1: FM mode switch in "ST" position. (1...MONO, 2...ST)
- S2-2: Dolby NR switch in "OFF" position.
- S3-1, 3-2: Tape selector switch in "NOR" position, (1...NOR, 2...CrO<sub>2</sub>/MET)
- S4-1, 4-2: XBS switch in "ON" position. (1...ON, 2...OFF)
- S5-1, 5-2: FWD/REV select switch in "REV" position. (1...FWD, 2...REV)
- S201: Hold switch in "OFF" position
- S202~206: Direct tuning switches. [S202: 1, S203: 2, S204: 3, S205: 4, S206: 5]
- S207: Band/Mode select (• FM/AM/-MODE) switch in "OFF" position.
- S208: Tuning down switch in "OFF" position.
- S209: Tuning up switch in "OFF" position.
- S210: Radio ON/OFF switch in "OFF" position.
- VR1: Tape speed adjustment VR.
- VR2-1: Volume control VR (Rch).
- VR2-2: Volume control VR (Lch).
- The mark (▼) shows test point e.g. ▼ = test point 1.
- DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
- < >...FM position, ( )...AM position.
- No mark...Playback position

- Battery current: Volume minimum output (Radio)..... 75mA
- Volume minimum output (Tape)..... 160mA
- Volume Maximum output (Radio)..... 125mA
- Volume Maximum output (Tape)..... 200mA
- (Radio, 74dB 30% Modulation.)
- (Tape, 315Hz 0dB tape playback)

- ➔ +B Voltage Line.
- ◻◻◻◻◻ Playback Signal.
- ➔ FM Signal.
- ◻◻◻◻◻ Playback and Radio Signal.

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



Q204, 205  
2SC4081RTX  
DC-DC CONV

Q203  
2SK303V3TB  
FET STABILIZER

Q201, 202  
2SC4081RTX  
POWER SUPPLY CONT

