

# Service Manual

Radio Cassette

## RQ-V190

Stereo Radio Cassette Player

Colour

(K)..... Black Type



Area

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

### ■ SPECIFICATIONS

#### General:

Power Requirement: Battery; 3V  
[Two "AA" size, (R6/LR6) batteries]  
AC; with optional Panasonic AC adaptor  
RP-AC33

Power Output: 30mW (15mW × 2)···RMS (max.)

Input: DC IN; 3V (⊖ ⊕)

Output: Headphones; 16 Ω, ϕ3.5

Dimensions: 114.2(W) × 84.5(H) × 36.5(D)mm

Weight: 184g without batteries

#### Radio Section:

Radio Frequency Range: FM; 87.5~108MHz  
AM; 522~1611kHz

Intermediate Frequency: FM; 10.7MHz  
AM; 459kHz

Sensitivity: FM; 3.16μV/0.5mW output  
(-3dB Limit, Sens)  
AM; 251μV/m/0.5mW output

#### Tape Deck Section:

Frequency Response: 40~14,000Hz (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:

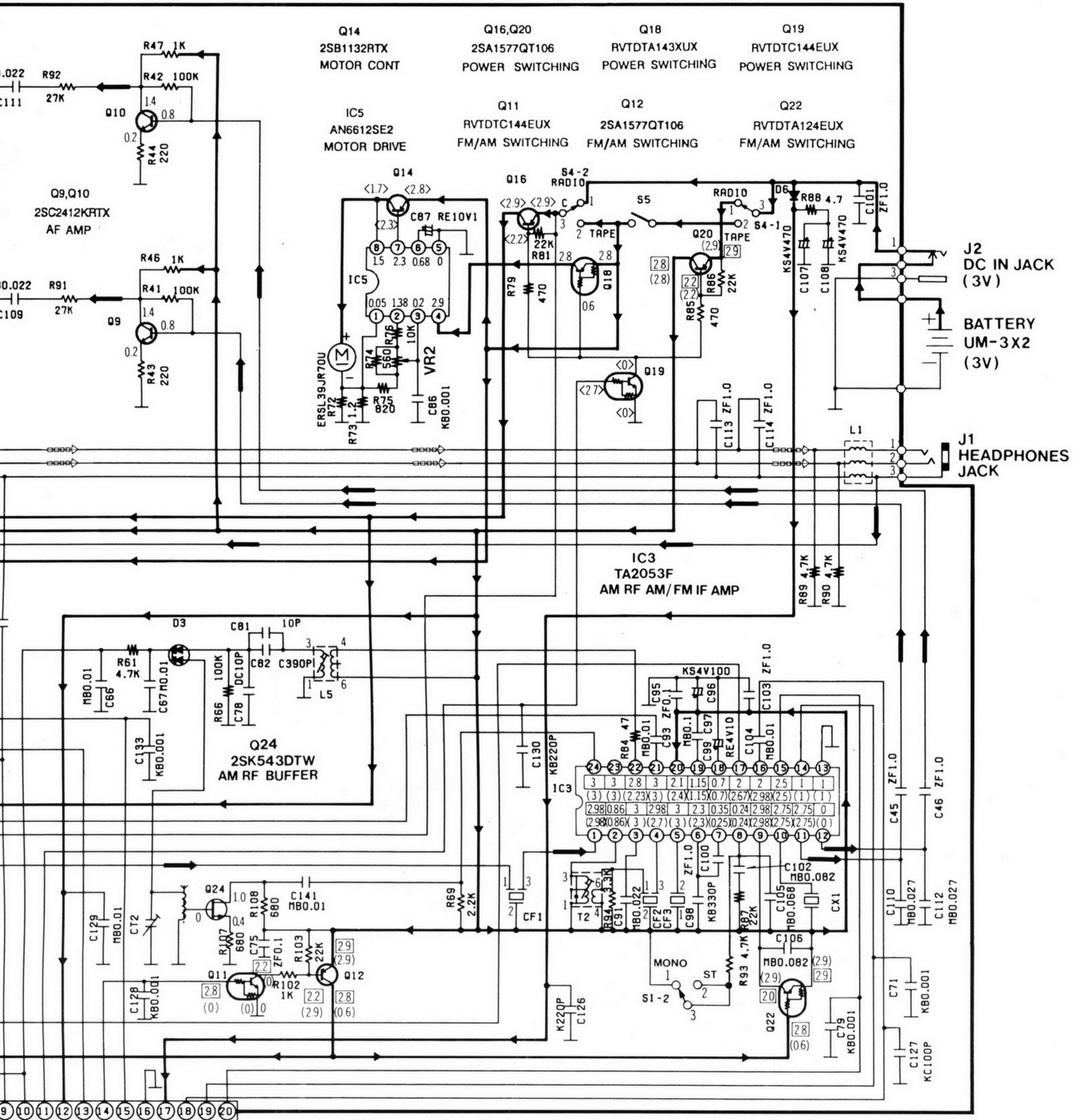
1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

# Panasonic



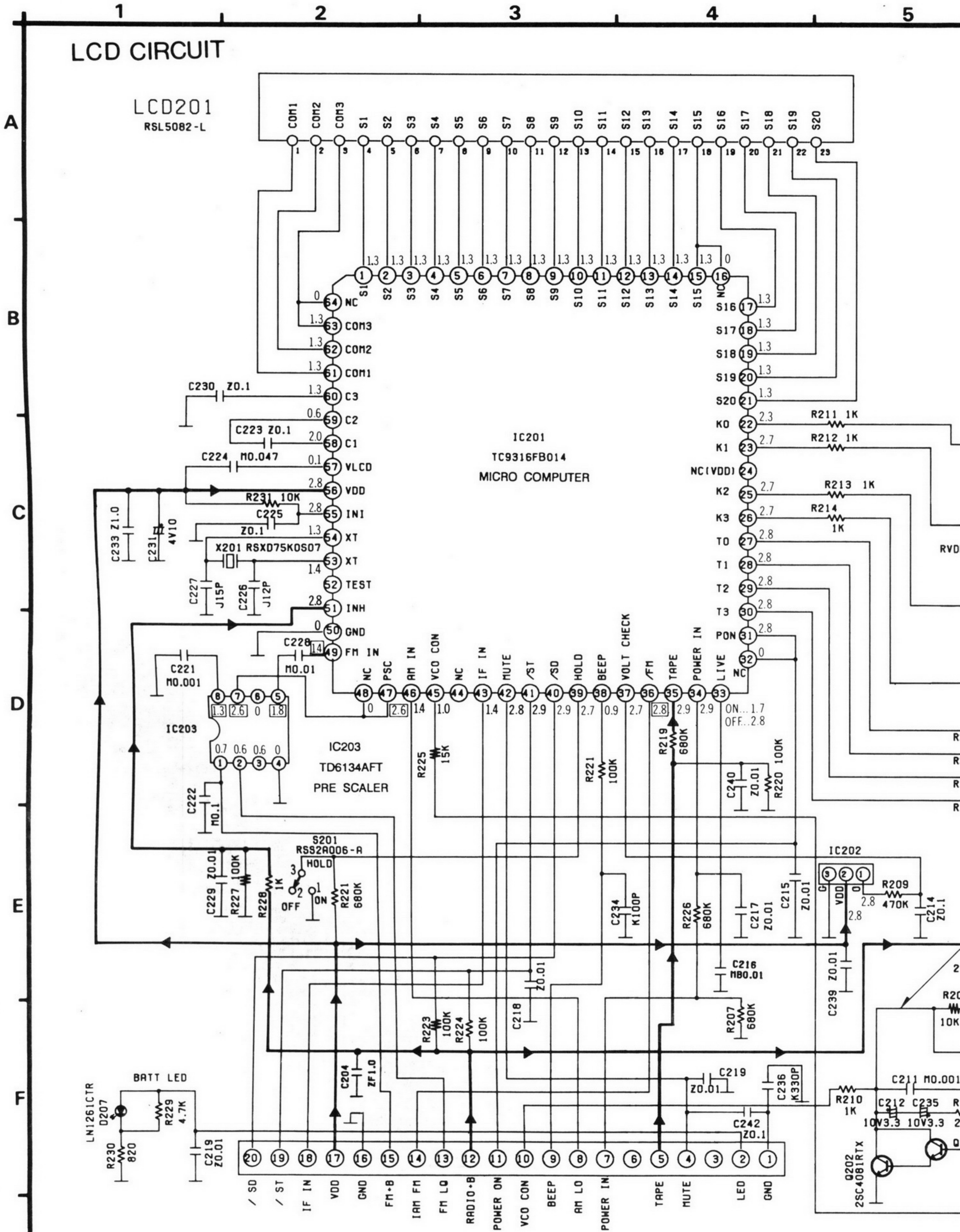








# SCHEMATIC DIAGRAM



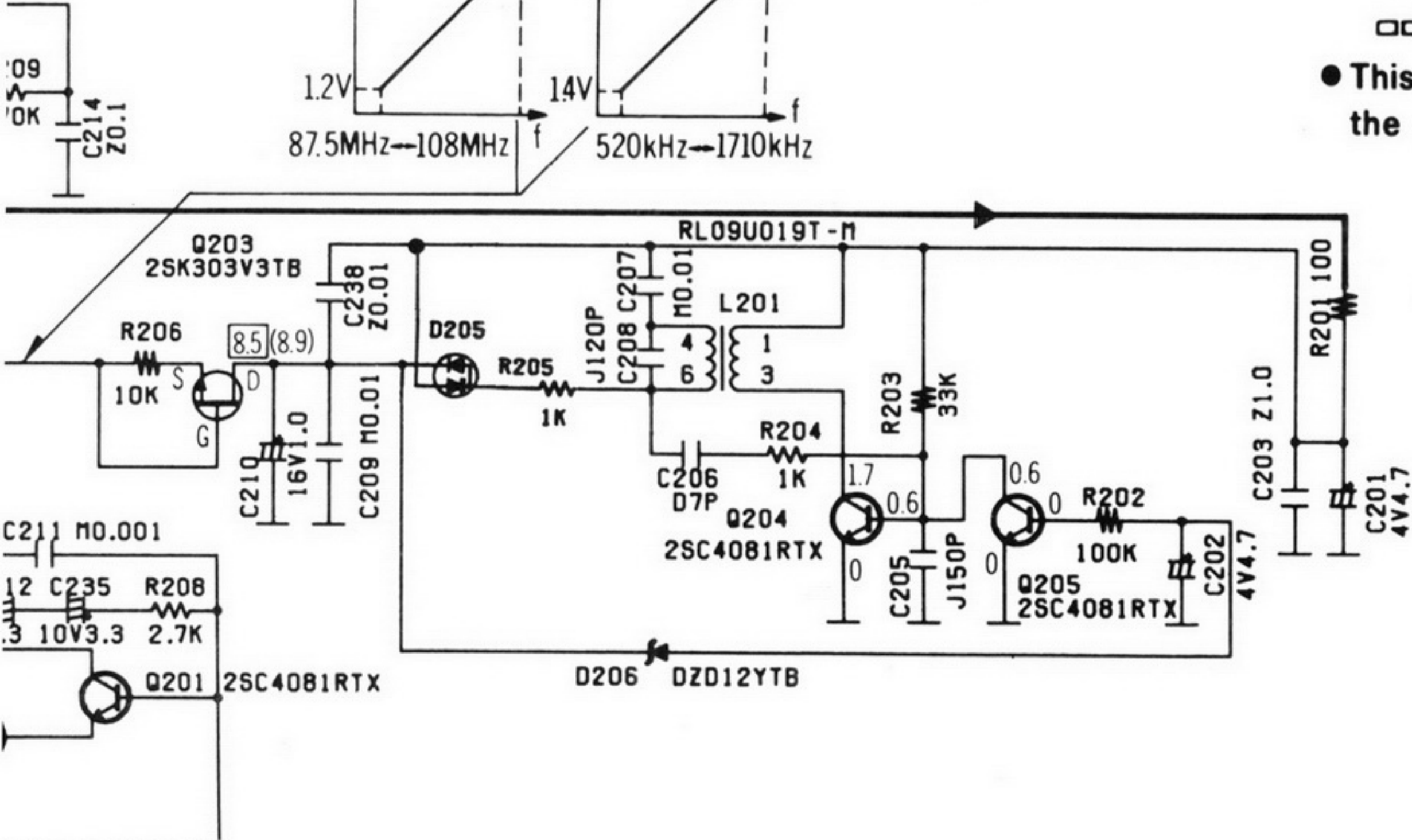
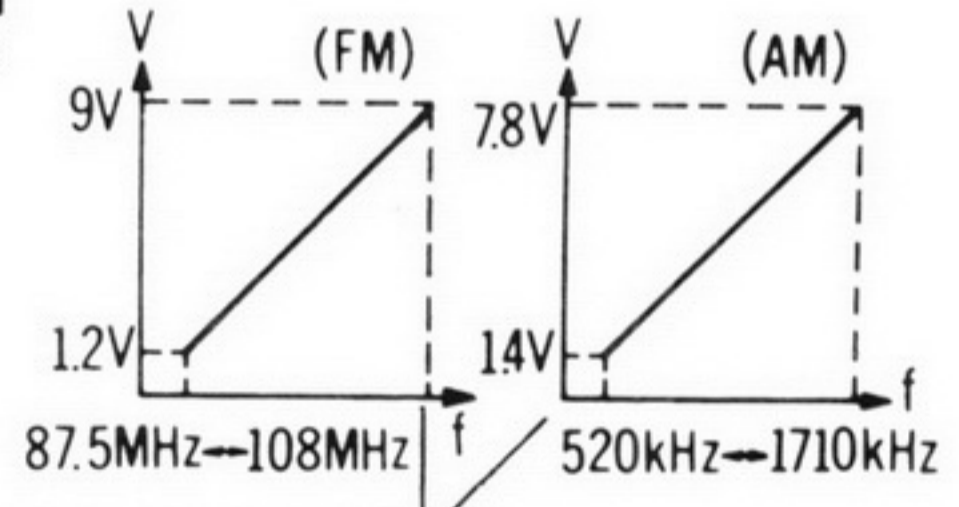
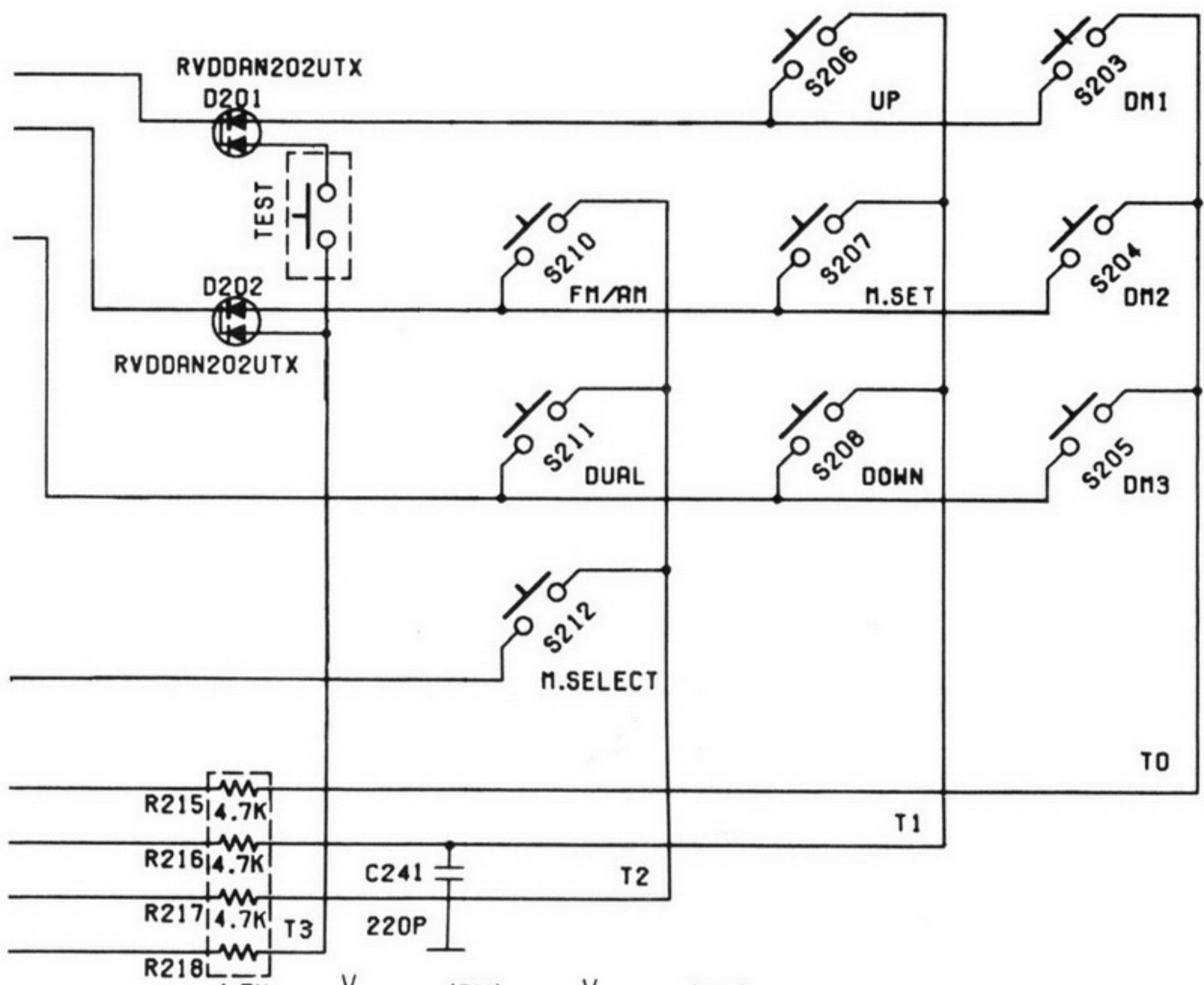


IC202  
S80719SLAGT1  
RESET

Q201,Q202  
2SC4081RTX  
POWER SUPPLY CONT

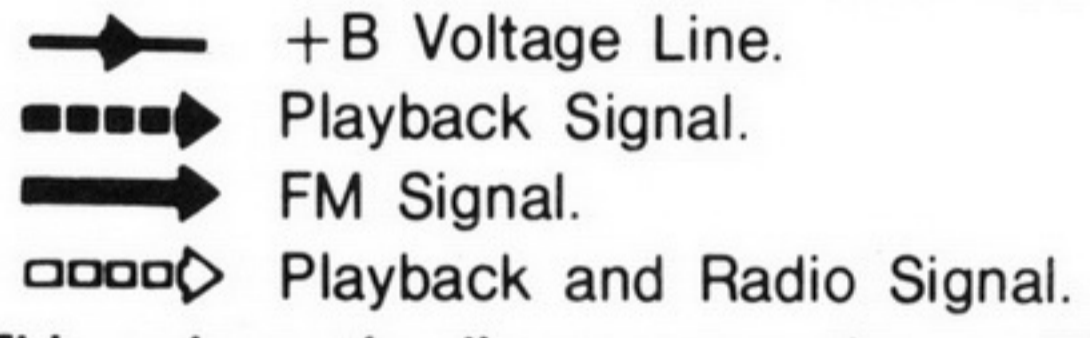
Q203  
2SK303V3TB  
F.E.T STABILIZER

Q204,Q205  
2SC4081RTX  
DC-DC CONV



**Notes:**

- S1-1: Tape selector switch in "NOR" position, (1...NOR,2...CrO<sub>2</sub>/MET)
- S1-2: FM mode switch in "ST" position. (1...ST,2...MONO)
- S2-1, 2-2: XBS switch in "OFF" position. (1...ON, 2...OFF)
- S4-1, 4-2: Selector switch in "RADIO" position. (1...RADIO, 2...TAPE)
- S5: Motor switch in "OFF" position.
- S6-1, 6-2: FWD/REV select switch in "REV" position. (1...FWD, 2...REV)
- S201: Hold switch in "OFF" position
- S203~205: Direct tuning (•1, •2, •3) switches. [S203: •1, S204: •2, S205: •3]
- S206: Tuning up/Time adj ⊕ switch in "OFF" position.
- S207: Memory/time set switch in "OFF" position.
- S208: Tuning down/Time adj ⊖ switch in "OFF" position.
- S210: Band/Mode select (• FM/AM/-MODE) switch in "OFF" position.
- S211: Dual clock switch in "OFF" position.
- S212: Memory select/Memory scan switch in "OFF" position.
- VR1-1: Volume control VR (Rch).
- VR1-2: Volume control VR (Lch).
- VR2: Tape speed adjustment VR.
- 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) .....60mA  
 Volume minimum output (Tape) ..... 160mA  
 Volume Maximum output (Radio)..... 90mA  
 Volume Maximum output (Tape) ..... 200mA  
 (Radio, 74dB 30% Modulation.  
 Tape, 315Hz 0dB tape playback)



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