

Service Manual

Radio Cassette

RQ-V164

Stereo Radio Cassette Player

Colour

(K)..... Black Type



Area

Suffix for Model No.	Areas	Colour
[E]	Europe	(K)
[E J]	F.R. Germany and Italy.	

SPECIFICATIONS

General:

Power Requirement: Battery: 3V (Two "AA" size, R6/LR6 batteries)
Power Output: 40mW (20mWx2)---RMS (max.)
Output: Headphones; 20 Ω , ϕ 3.5
Dimensions: 85.4(W) \times 120.1(H) \times 36.6(D)mm
Weight: 166g without batteries

Radio Section:

Radio Frequency Range: FM; 87.5~108MHz
AM; 520~1610kHz
Intermediate Frequency: FM; 10.7MHz
Am; 459kHz
Sensitivity: FM; 3.98 μ V/0.5mW output
(-3dB Limit, Sens)
AM; 100 μ V/m/0.5mW output

Tape Deck Section:

Frequency Response: 40~16,000Hz (Normal, CrO₂/Metal)
(-6dB)
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.

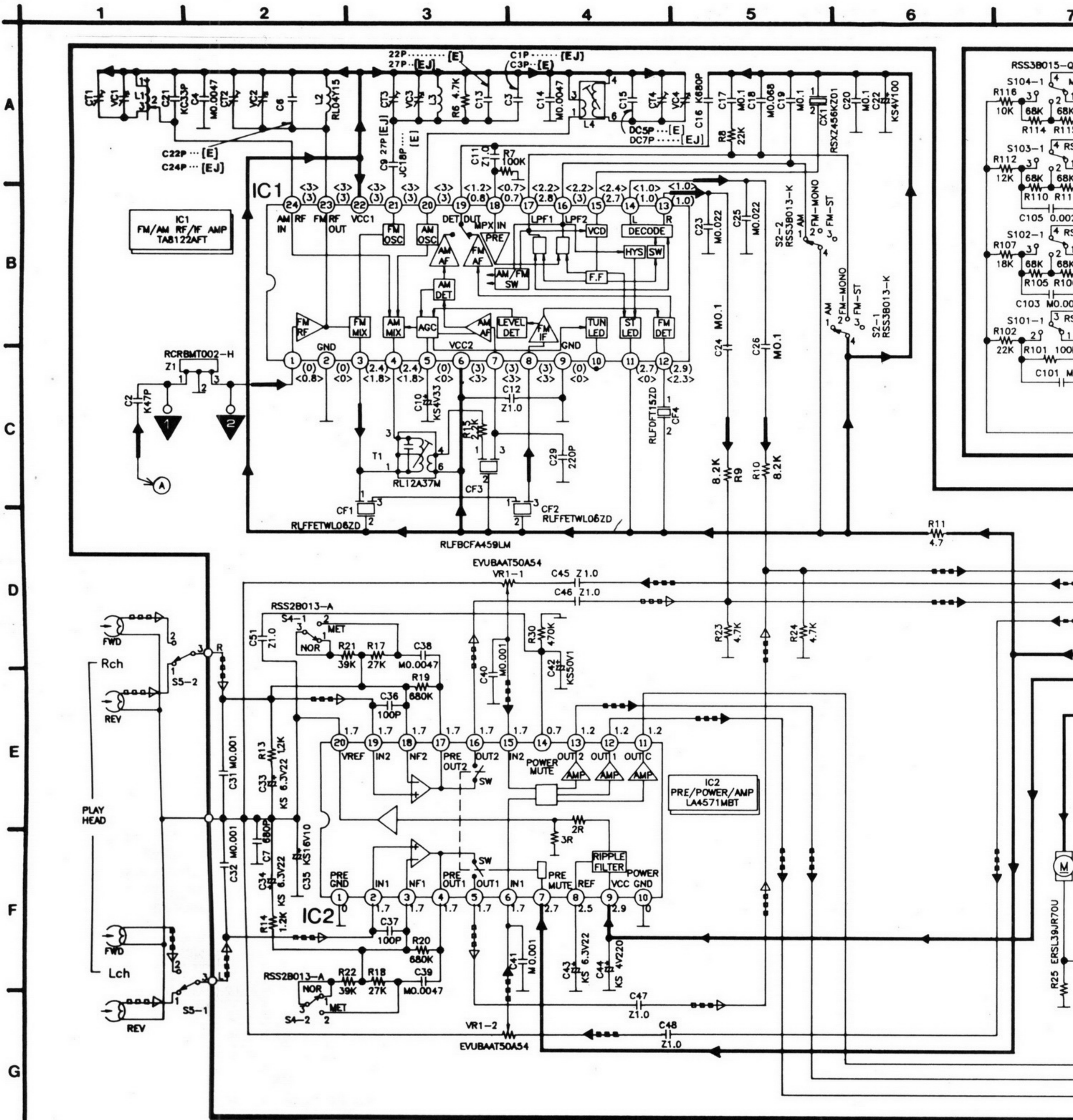
WARNING

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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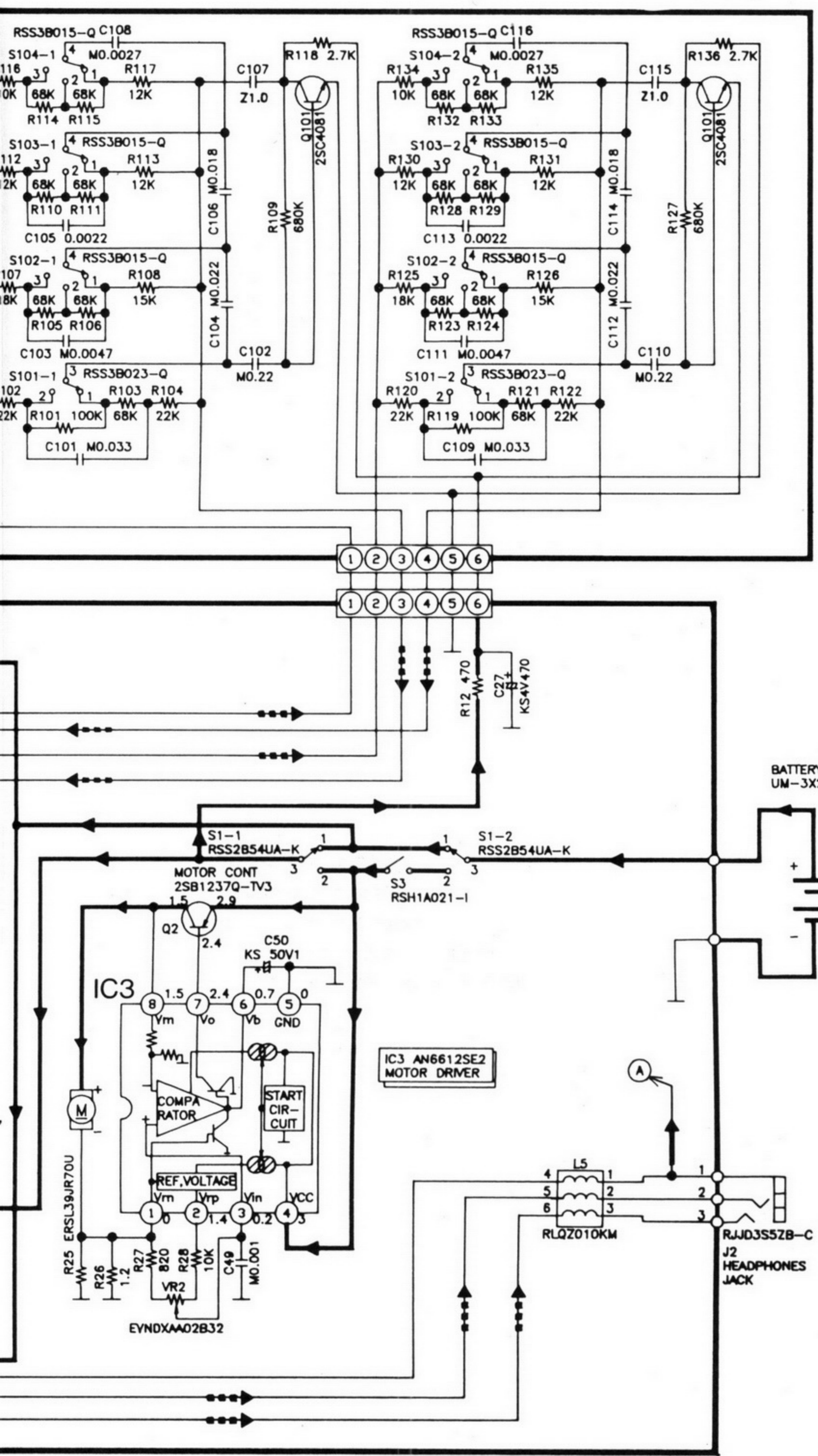
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SCHEMATIC DIAGRAM

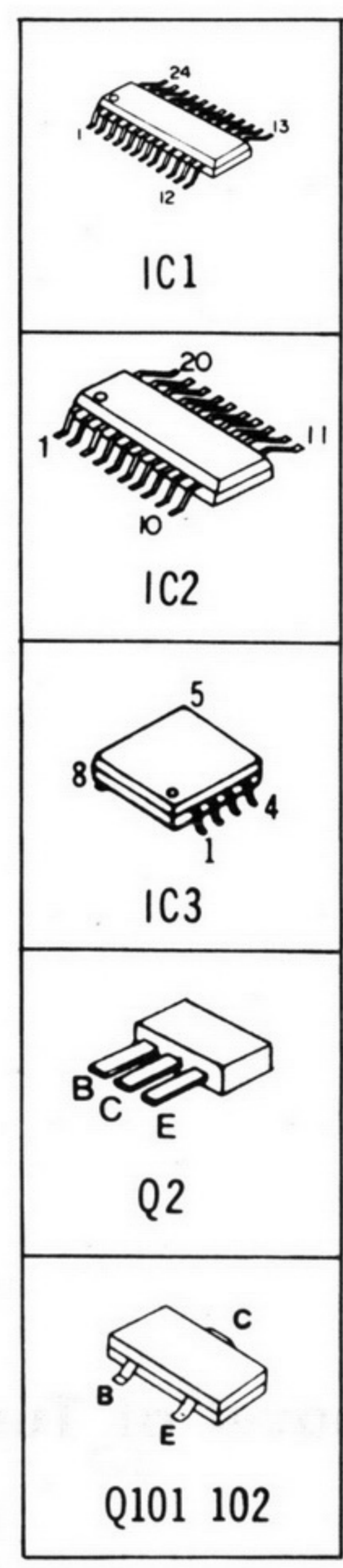


Notes:

- S1-1, S1-2: Function switch in "RADIO" position. (1...RADIO, 2...TAPE)
- S2-1 ~ S2-2: Band select switch in AM position. (1...AM, 2...FM MONO, 3...FM ST.)
- S3: Motor switch in "OFF" position.
- S4-1, S4-2: Tape selector switch in "NORMAL". position. (1...Normal, 2...Metal)
- S5-1, S5-2: FWD/REV select switch in "REV" position. (1...REV, 2...FWD)
- S101-1, 101-2: XBS switch in "OFF" position (1...OFF, 2...ON)
- S102-1, 102-2: BASS switch in "LOW" position (1...LOW, 3...HIGH)
- S103-1, 103-2: MID switch in "LOW" position (1...LOW, 3...HIGH)
- S104-1, 104-2: TREBLE switch in "LOW" position (1...LOW, 3...HIGH)
- VR1-1, 1-2: Volume control VR.
- VR2: Tape speed adjustment VR.



■ TERMINAL GUIDE OF IC'S AND TRANSISTORS



- 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,
- —▶ +B Voltage Line.
- —▶ Playback Signal.
- —▶ FM Signal.
- —▶ Playback and Radio Signal.

- Battery current: Volume minimum output (Radio)..... 40mA
- Volume maximum output (Radio)..... 60mA
- Volume minimum output (Tape).....160mA
- Volume maximum output (Tape).....190mA
- (Radio, 74dB 30% Modulation)
- (Tape, 315 Hz 0dB tape playback)