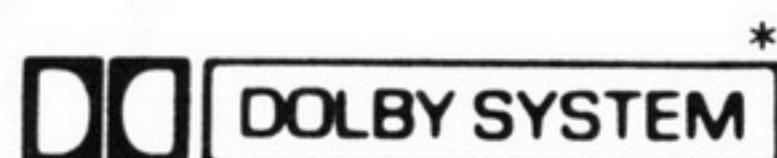


Service Manual



Stereo Radio Cassette Player

Radio Cassette

RQ-XV30

Colour

(K)... Black Type



Area

Suffix for Model No.	Area	Colour
(EG)	Europe.	(K)
(EB)	Great Britain.	

MECHANISM SERIES : AR20

■ SPECIFICATIONS

General:

Power Requirement: Battery:DC 1.5V
 (one UM-3,R6/LR6 battery)
 Rechargeable battery; DC 1.2V
 (include rechargeable battery)
 AC:DC IN 1.5V with optional
 panasonic AC adaptor RP-AC11

Power Output: 10mW (5mWX2)··RMS (max.)
 Input: DC IN: 1.5V(⬡-C-⬡)
 Output: Headphones: 16 Ω, ϕ3.5
 Dimensions: 109.6(W)X81.2(H)X30.5(D)mm
 Weight: 213g(with rechargeable battery)

CHARGER

Input: AC 220V (For UK, 230~240V) 50Hz, 4W
 Output: DC 210mA (For UK, 210mA), 1.2V

Notes:

- Weights and dimensions shown are approximate.
 - Design and specifications are subject to change without notice.
- * 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.

Radio Section:

Radio Frequency Range: FM: 87.5~108.0MHz (0.05MHz step)
 AM: 522~1611kHz (9kHz Steps)
 Intermediate Frequency: FM: 10.7MHz
 AM: 459kHz
 Sensitivity: FM: 446 μ V/0.5mW output
 (-3dB Limit, Sens)
 AM: 2,81 μ V/m/0.1mW output

Tape Deck Section:

Frequency Response: 30~18,000Hz (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

⚠ 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.

Panasonic®

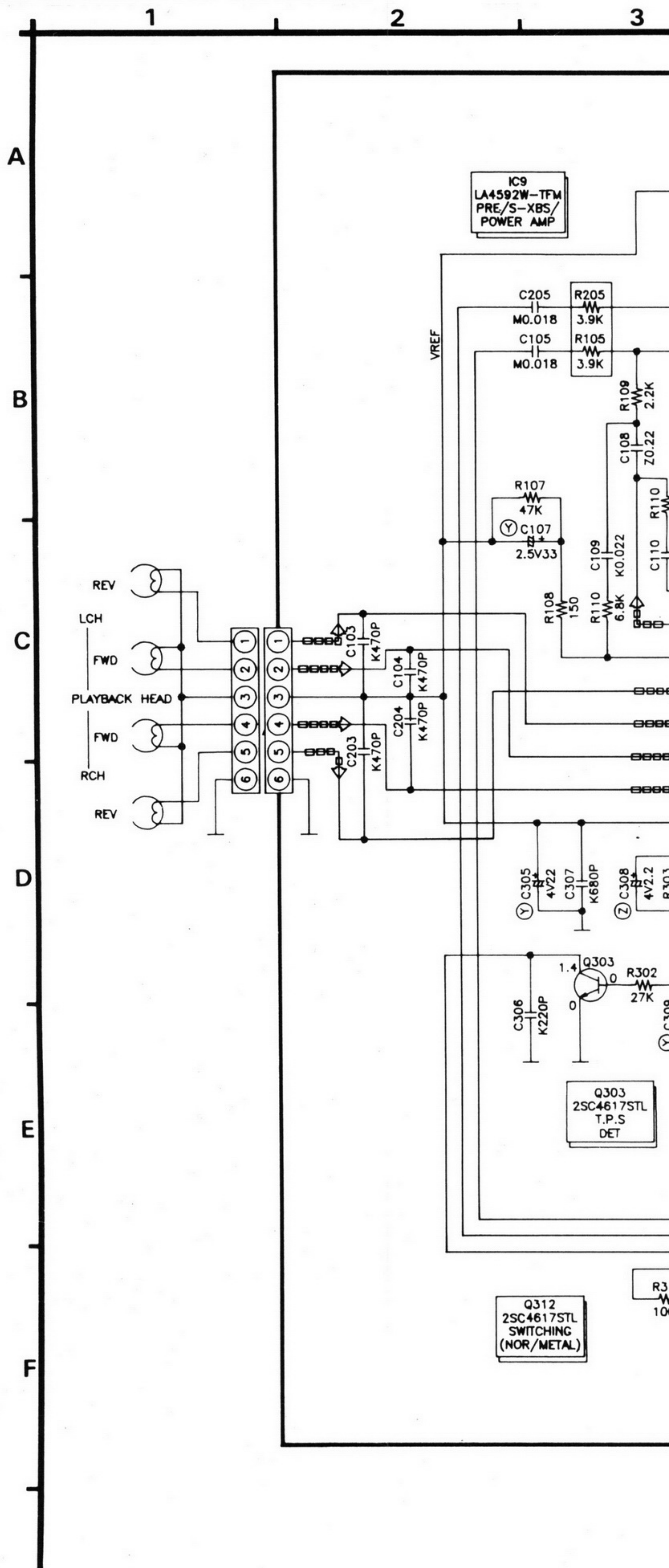
© 1995 Matsushita Electric Industrial Co., Ltd.
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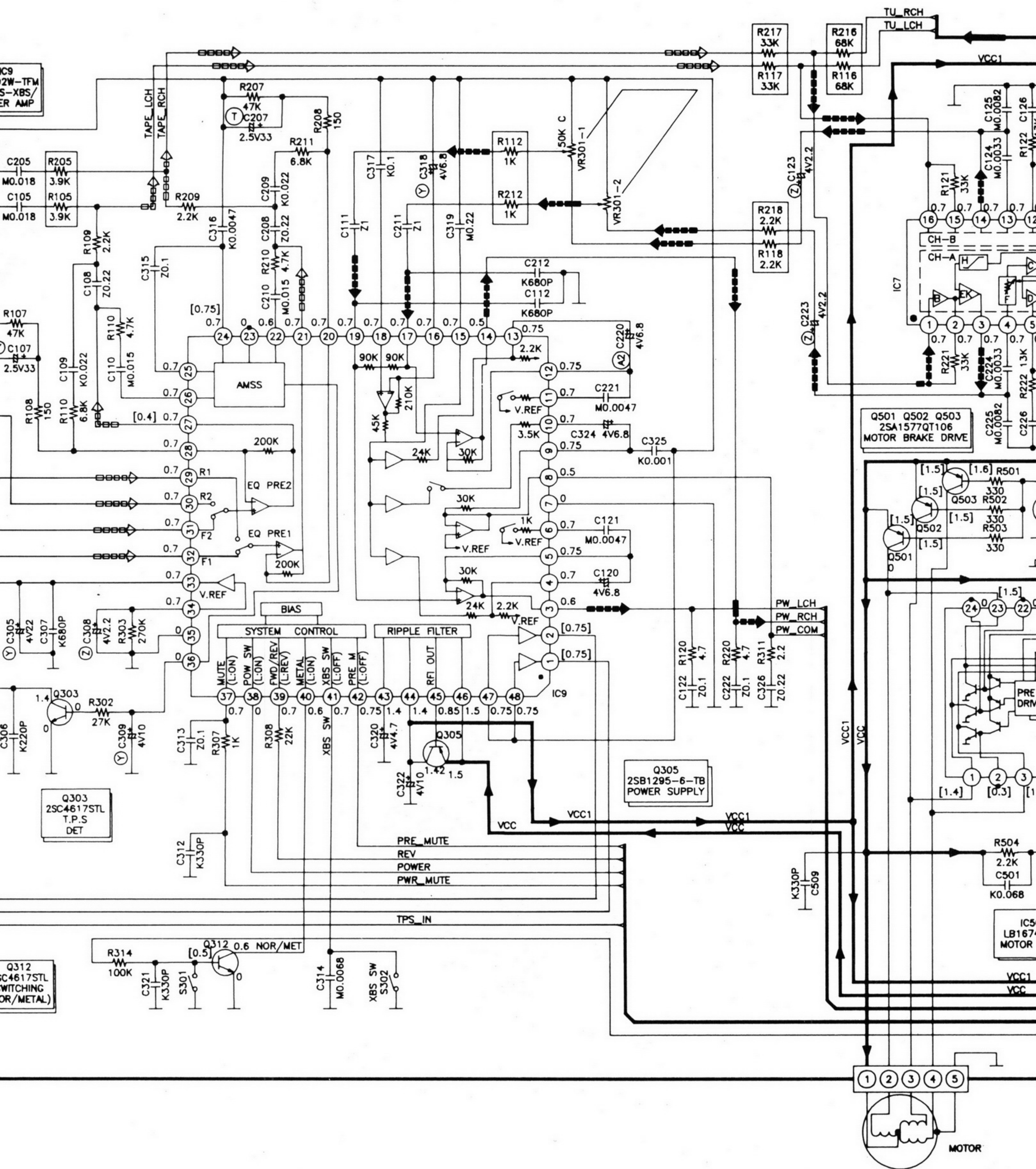
Notes:

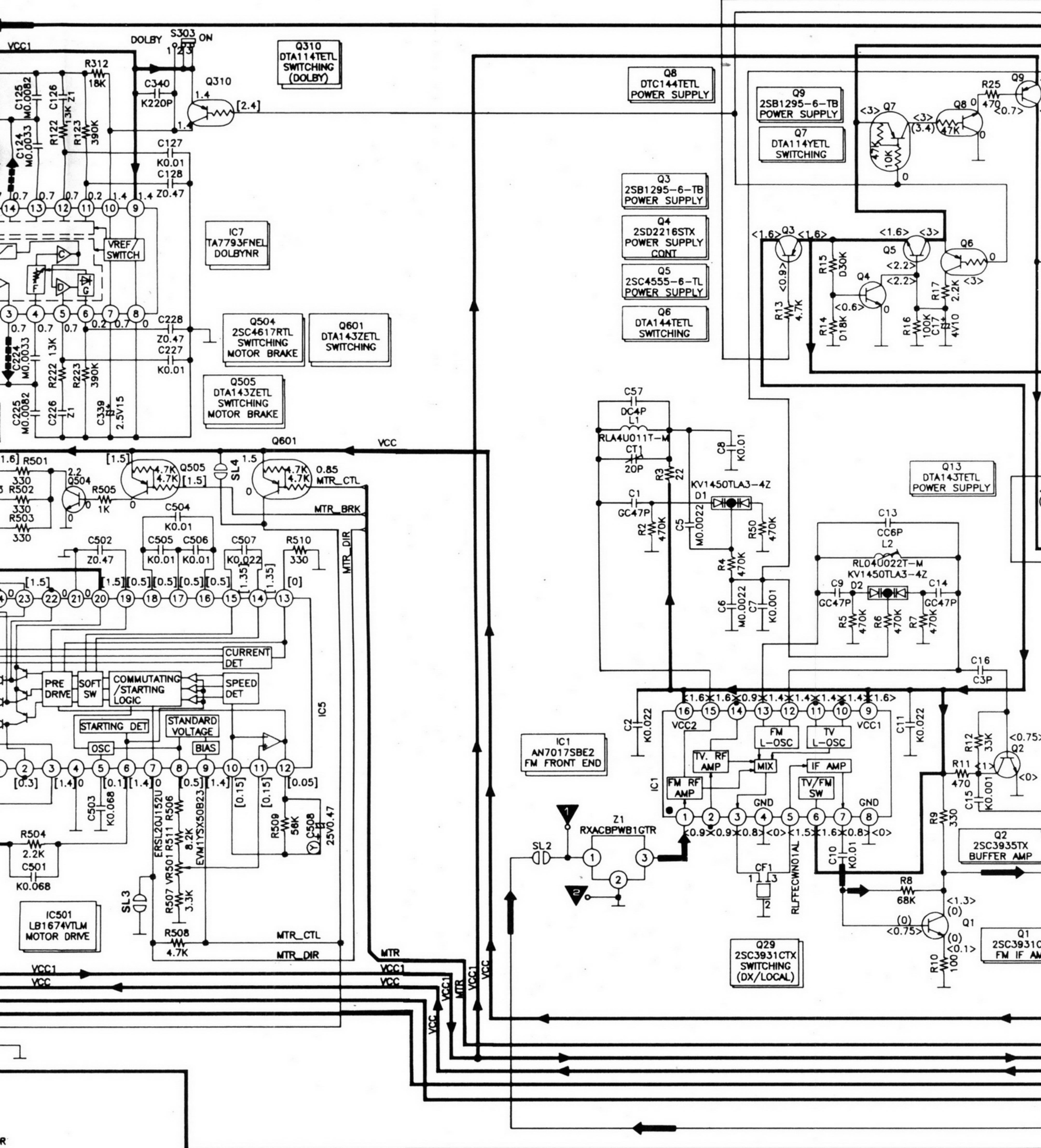
- S1: FM mode switch in "MONO" position. (1...MONO, 2...ST).
- S301: Metal/Normal switch in "Normal" position.
- S302: S-XBS switch in "ON" position.
- S303: Dolby NR switch in "ON" position.
- S601: Rotary switch in "FWD" position. (1...FWD, 2...FF, 3...REV, 4...REW)
- S602: Open/close switch in "OPEN" position.
- S701: M.SET switch in "OFF" position.
- S702: M. SELECT switch in "OFF" position.
- S703: STOP switch in "OFF" position.
- S704: PLAY switch in "OFF" position.
- S705: Fast forward/Tuning up switch in "OFF" position.
- S706: Rewind/Tuning down switch in "OFF" position.
- S708: Radio/Band switch in "OFF" position.
- S709: Hold switch in "OFF" position.
- VR1: FM Stereo adjustment VR.
- VR301,302: Volume control VR.
- VR501: Tape speed adjustment VR.
- The mark (▼) shows test point e.g. ▼ = test point 1.
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
- < >...FM position, ()...AM position.
- []...TAPE position NO mark...playback & Radio position.
- Battery current: Volume minimum output (Radio)... 98mA
 Volume minimum output (Tape)... 180mA
 Volume Maximum output (Radio)... 108mA
 Volume Maximum output (Tape)... 200mA
 (Radio, 74dB 30% Modulation.)
 (Tape, 315Hz 0dB tape playback)

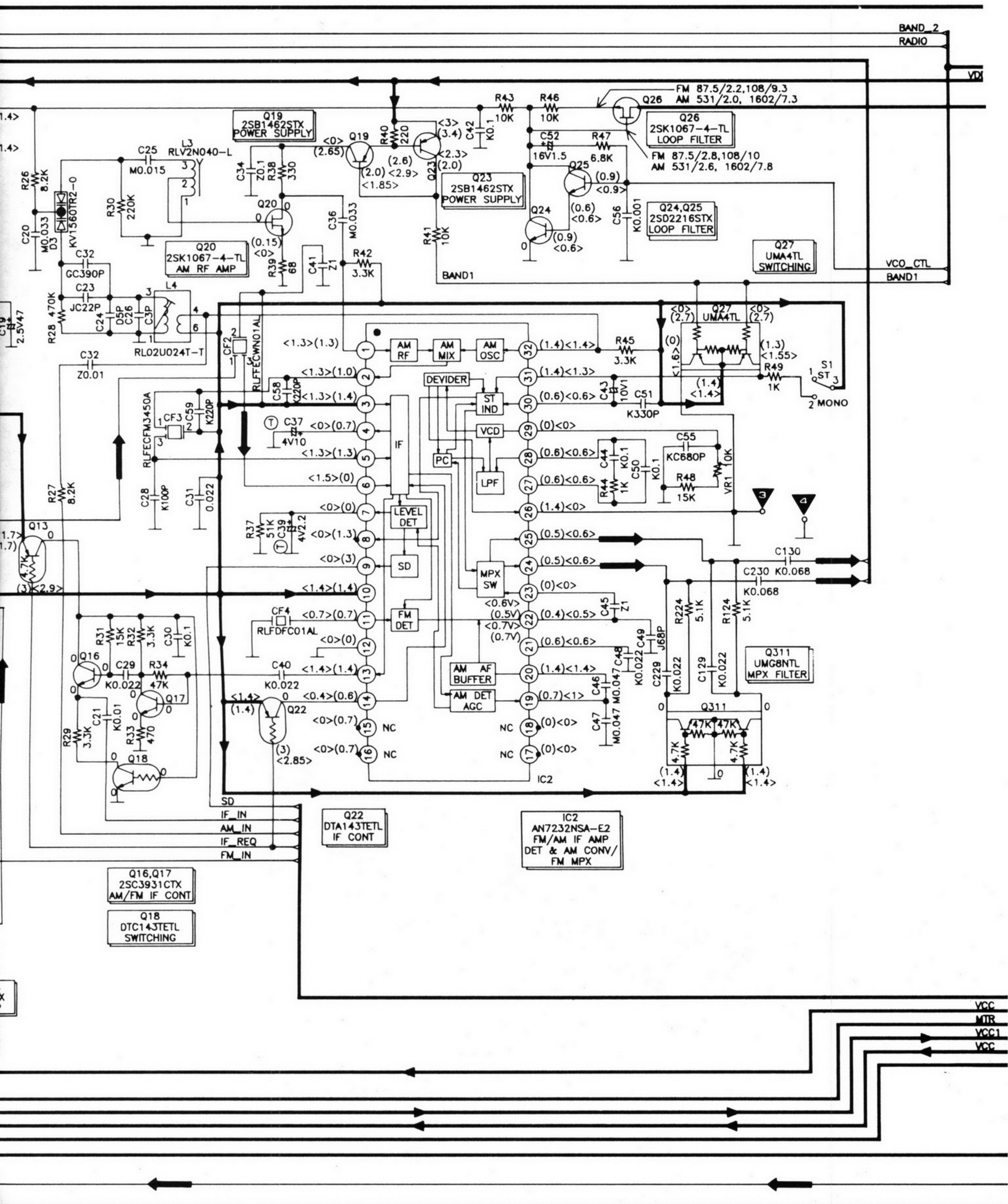
- ➔ +B Voltage Line.
- ▭▶ Playback Signal.
- ➔ FM Signal.
- ▭▶ Playback and Radio Signal.

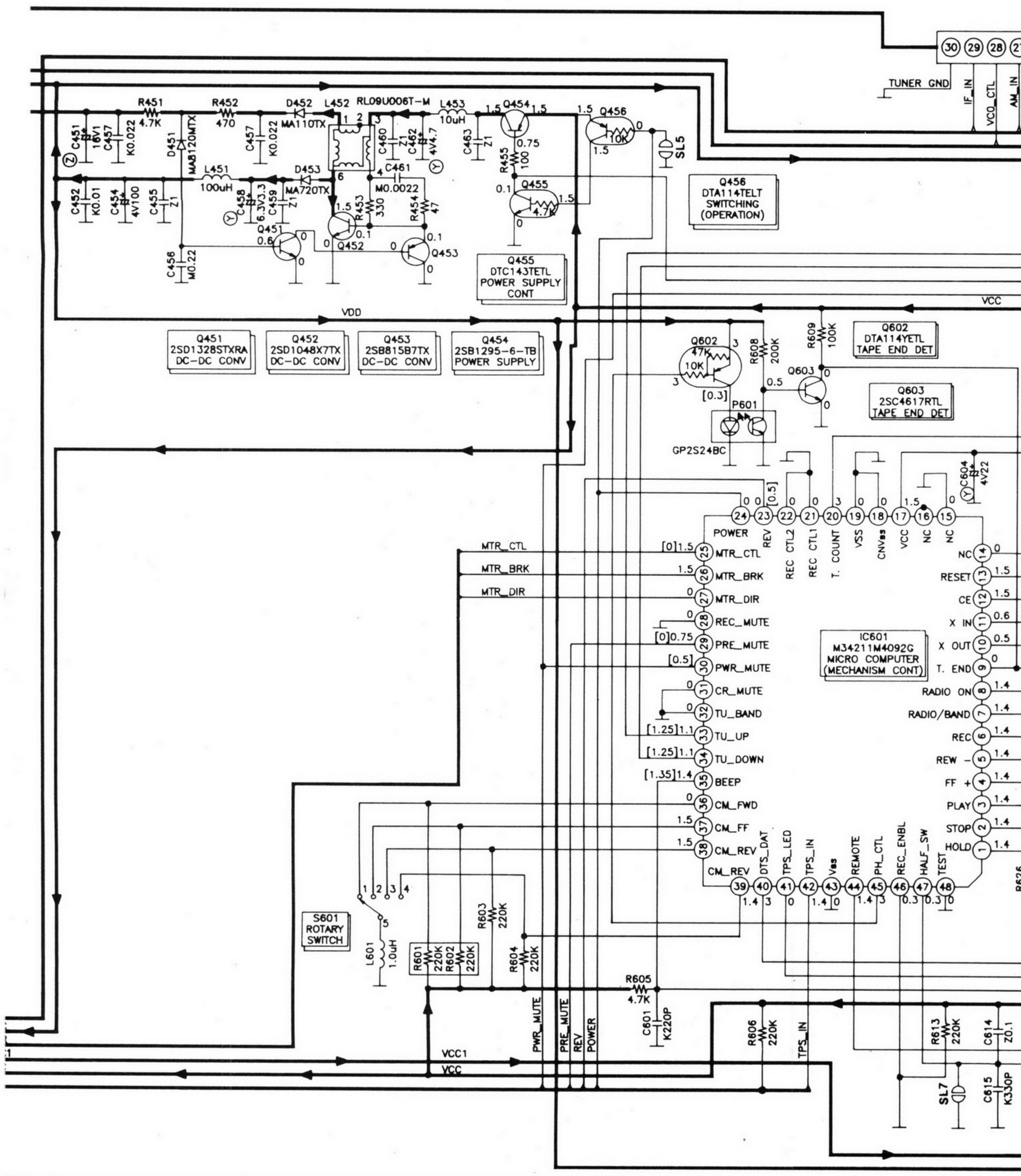
● This schematic diagram may be modified at any time with the development of new technology.

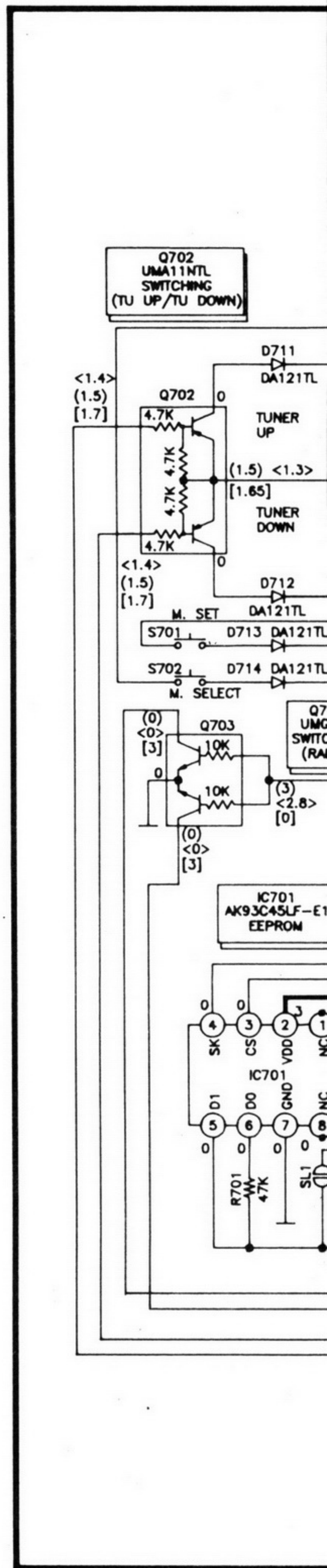
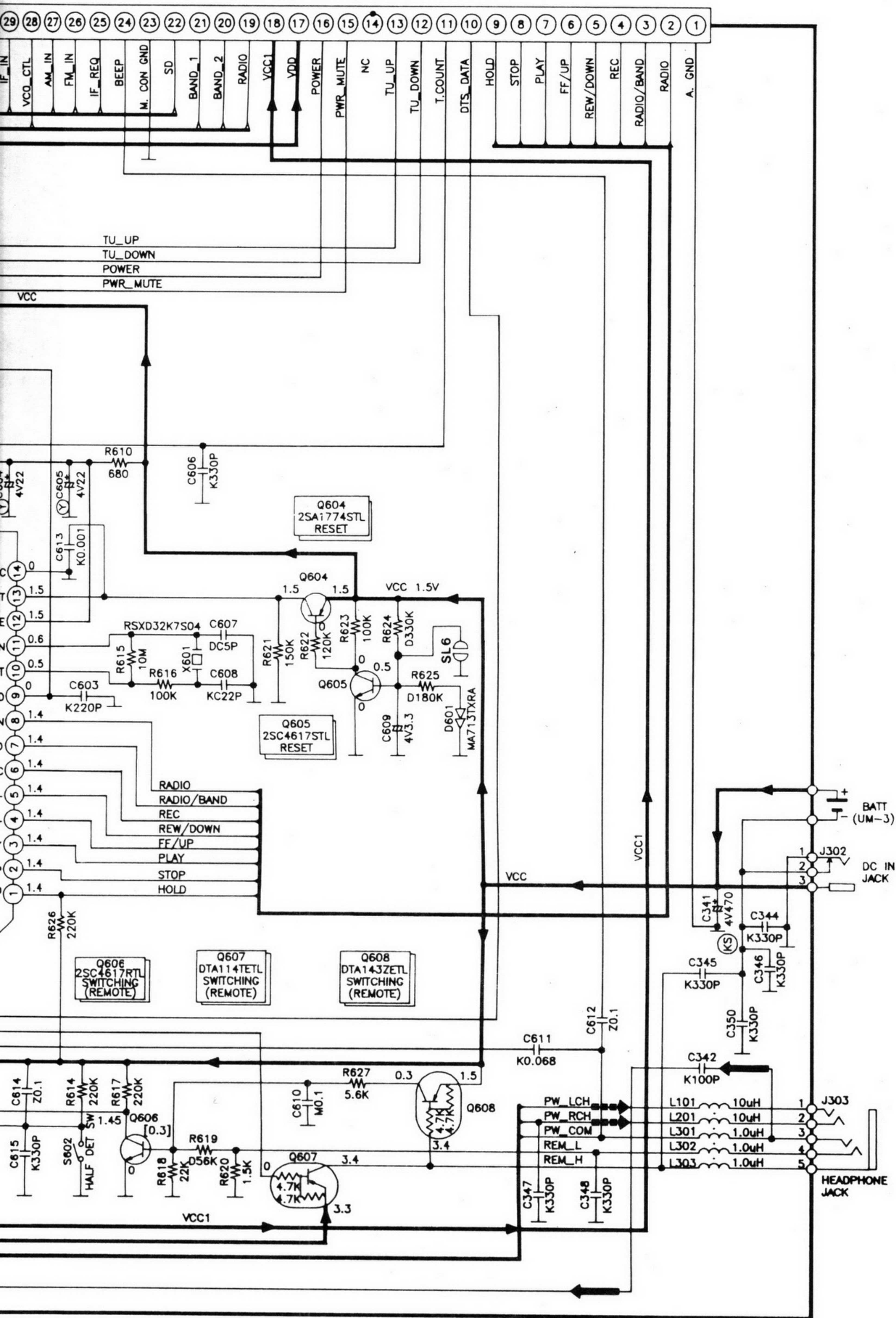


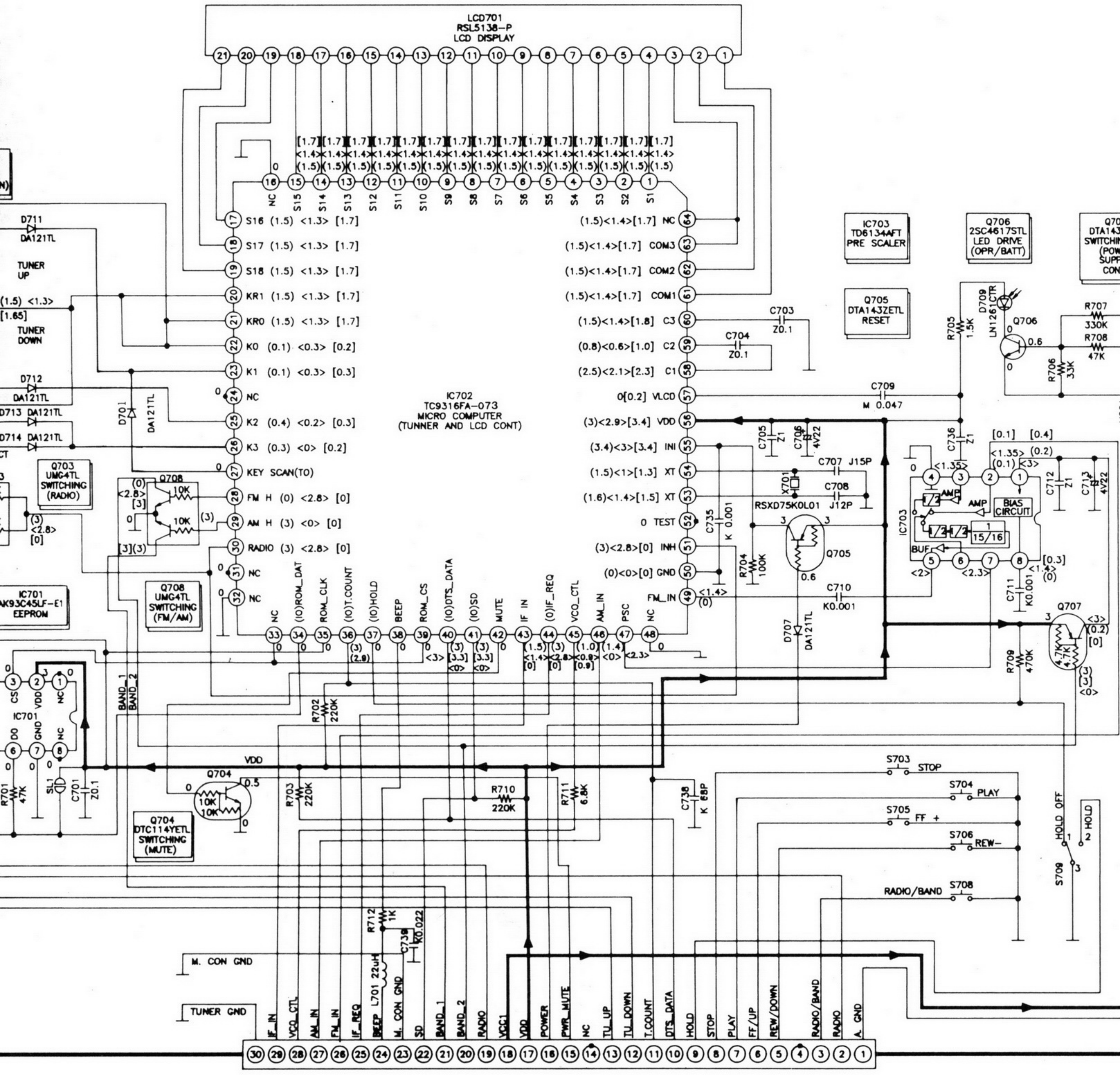




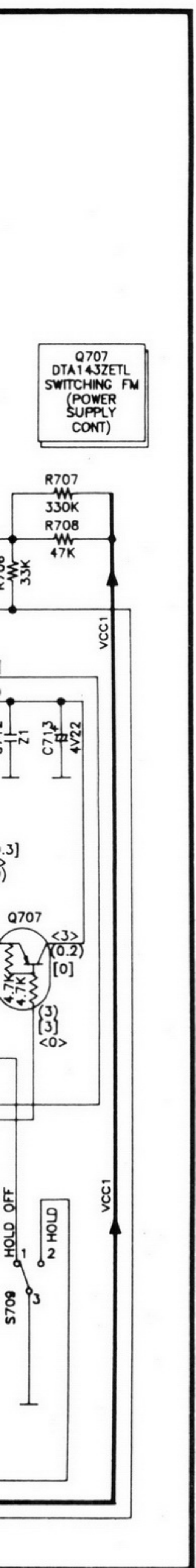
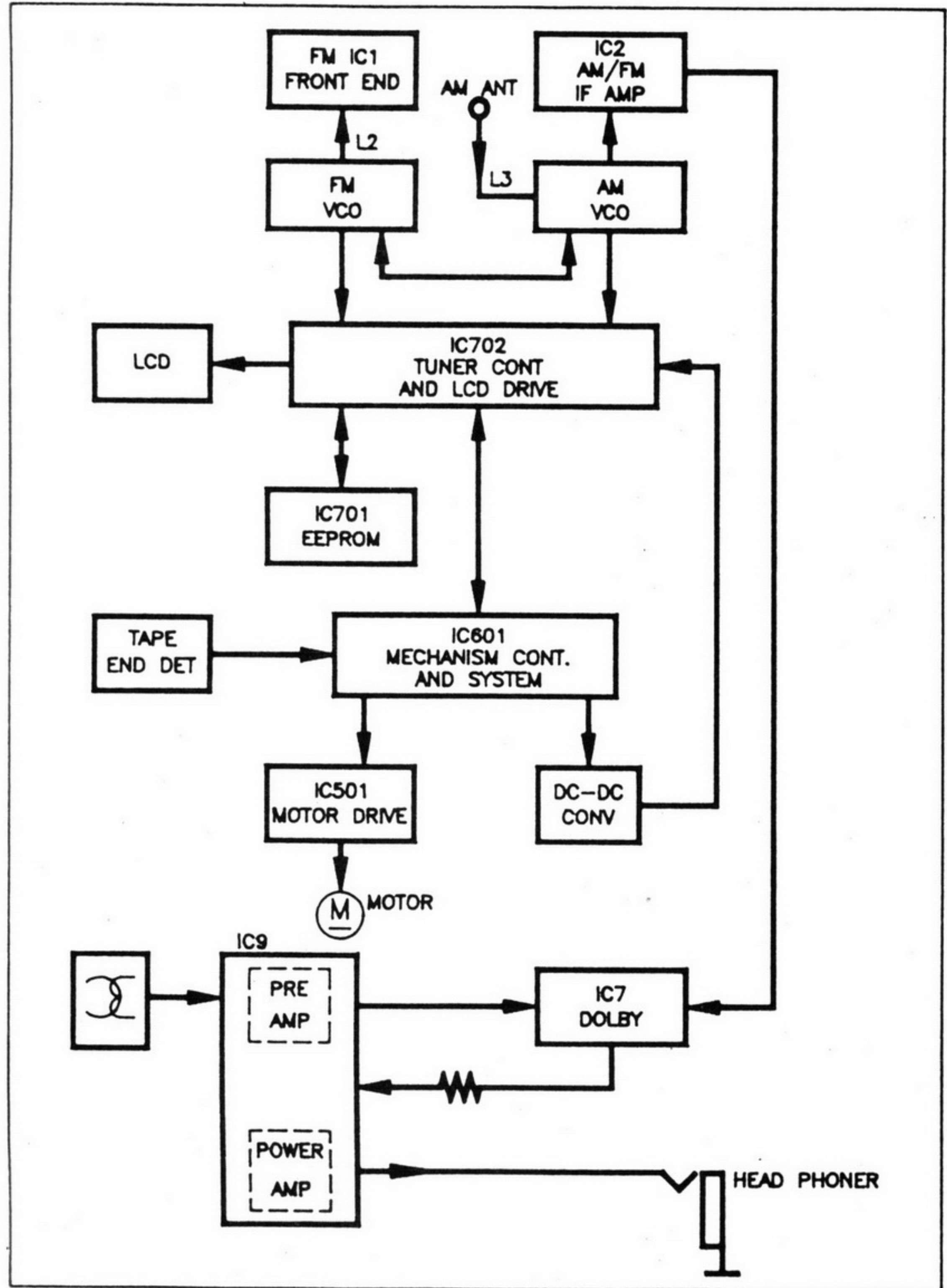


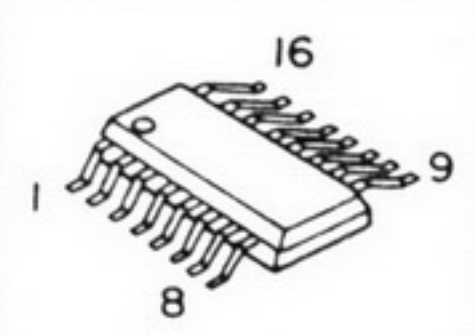
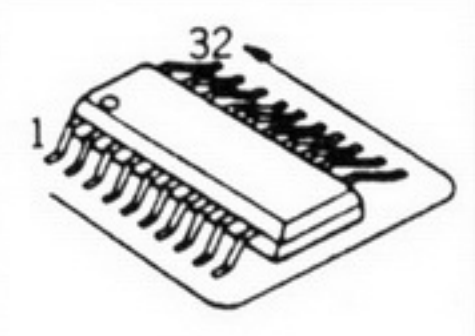
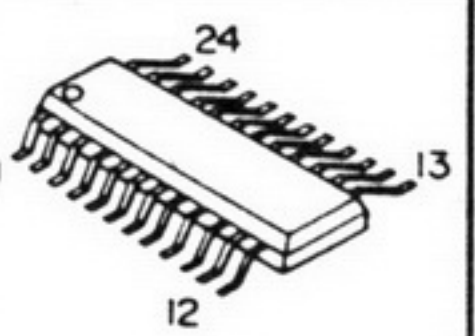
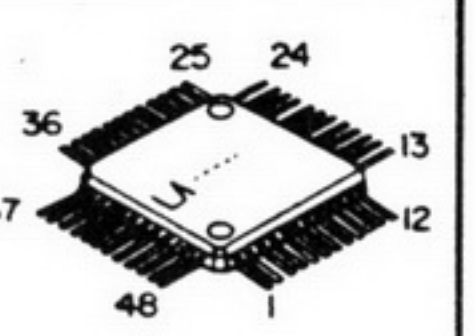
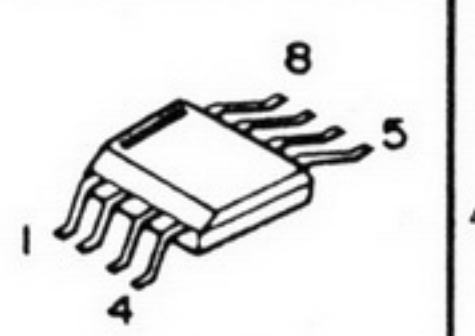
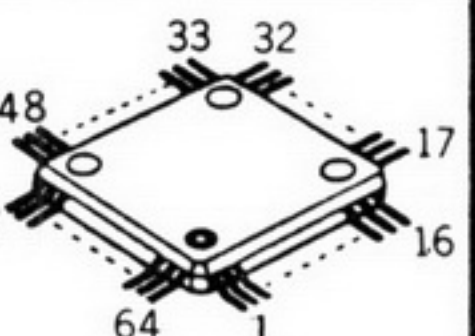
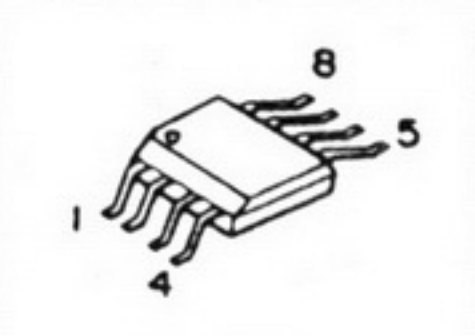
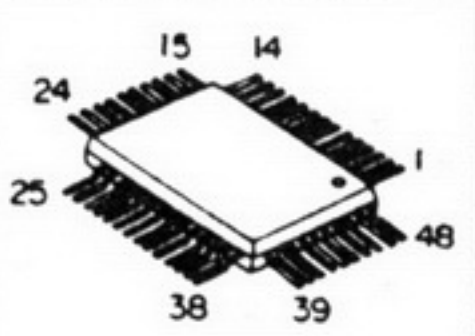
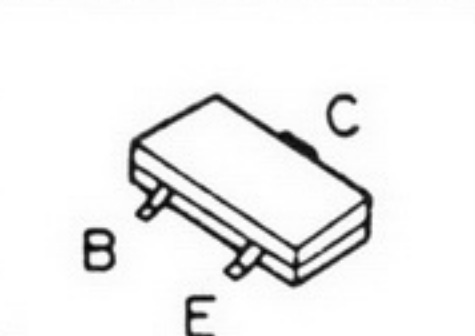
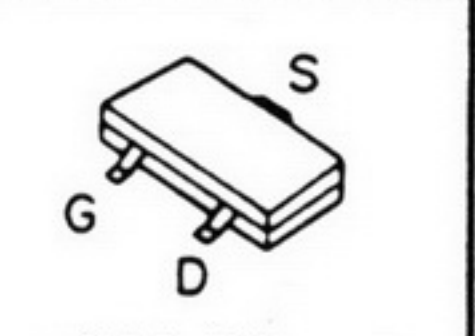

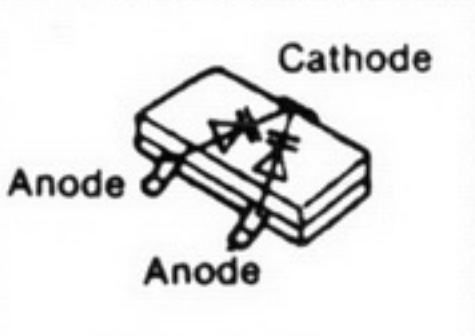
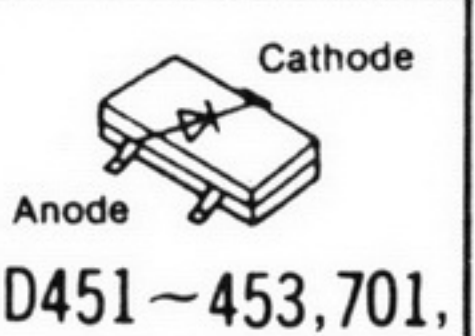
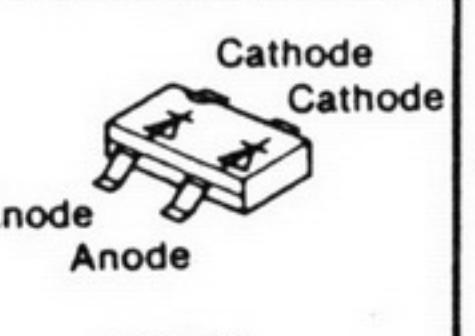
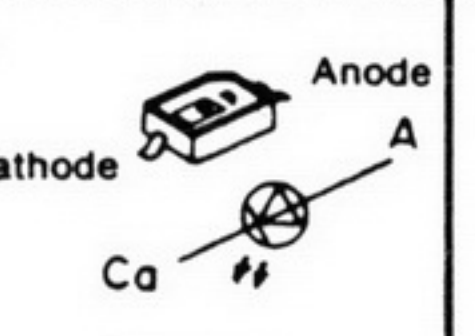






• BLOCK DIAGRAM



 IC1,7	 IC2	 IC5	 IC9	 IC701	 IC702
 IC703	 IC601	 C B E	Q1~9,13,16~19,22~25, 303,305,310,312 451~455, 501~505,601~608, 704~707.		 S G D Q20,26
 Q27,311,702, 703,708.	 Cathode Anode D1,2,3.	 Cathode Anode D451~453,701, 707,711~714.	 Cathode Anode D601	 Cathode Anode D709	