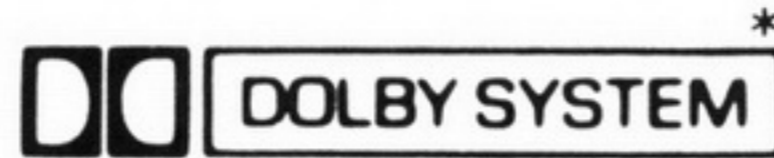


# Service Manual

Radio Cassette

## RQ-XF50



Stereo Radio Cassette Recorder

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 (⊖ ⊕)  
Input jack: MIC; 0.6mV (600 Ω)  
Output: Headphones: 16 Ω, ϕ3.5  
Dimensions: 109.6(W)X81.2(H)X30.5(D)mm  
Weight: 215g(with rechargeable battery)

##### CHARGER

Input: AC 230V (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: 2.81 μV/0.5mW output  
(-3dB Limit, Sens)  
AM: 446 μV/m/0.1mW output

##### Tape Deck Section:

Frequency range: Playback;30~18000Hz (-6dB)  
(TYPE I/TYPE II/TYPE IV)  
Recording;70~10000Hz (TYPE I)  
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®

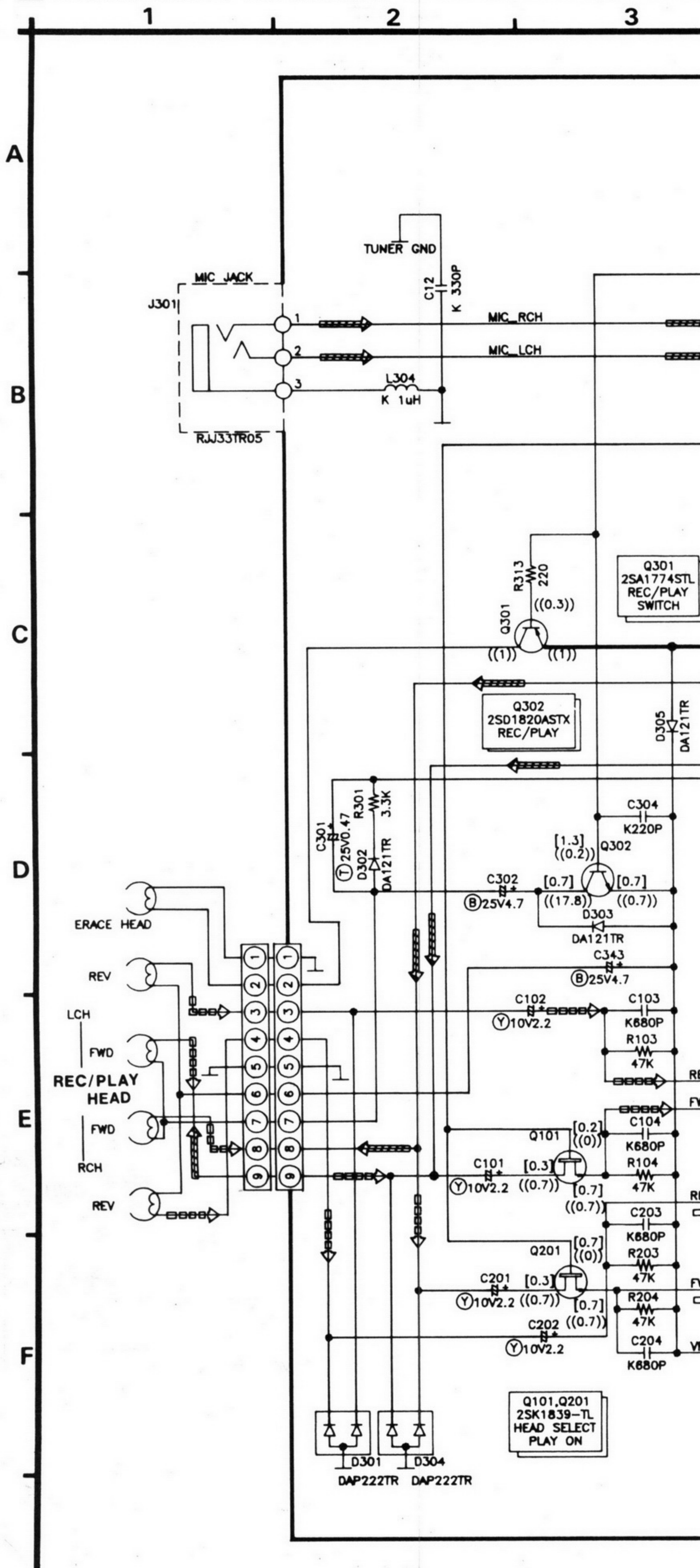
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Notes:

- S1: FM mode switch in "MONO/1" position.  
(1...MONO/1, 2...ST/2, 3...ST/3).
- 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.
- S603: REC ENBL switch in "OFF" 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 measurement are taken with electronics voltmeter from negative terminal of battery.
- ◁ ▷...FM position, ( )...AM position. (( ))...REC 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.
- ▤▤▤▤▤ RECORD Signal.

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



# F50 RQ-XF50

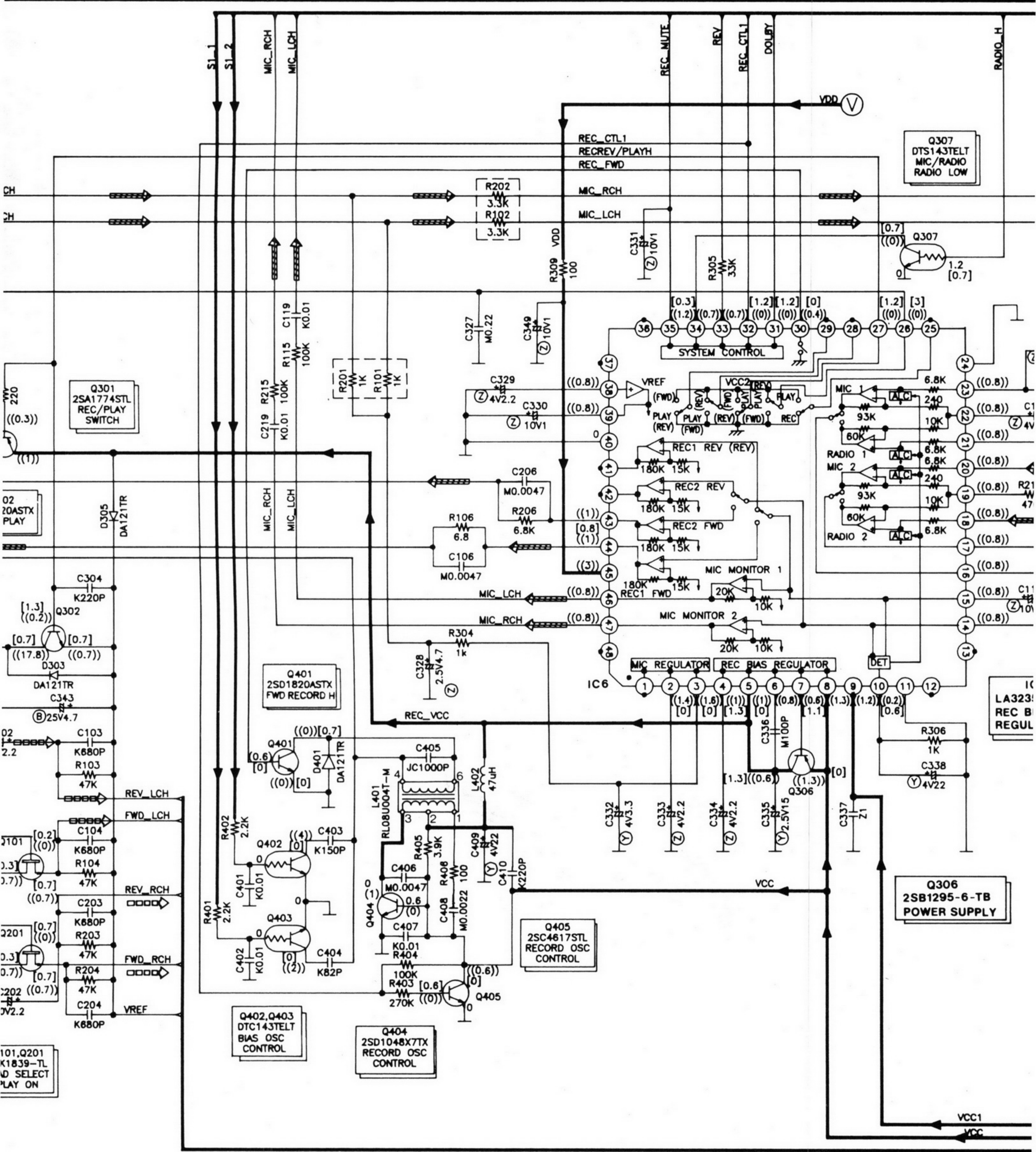
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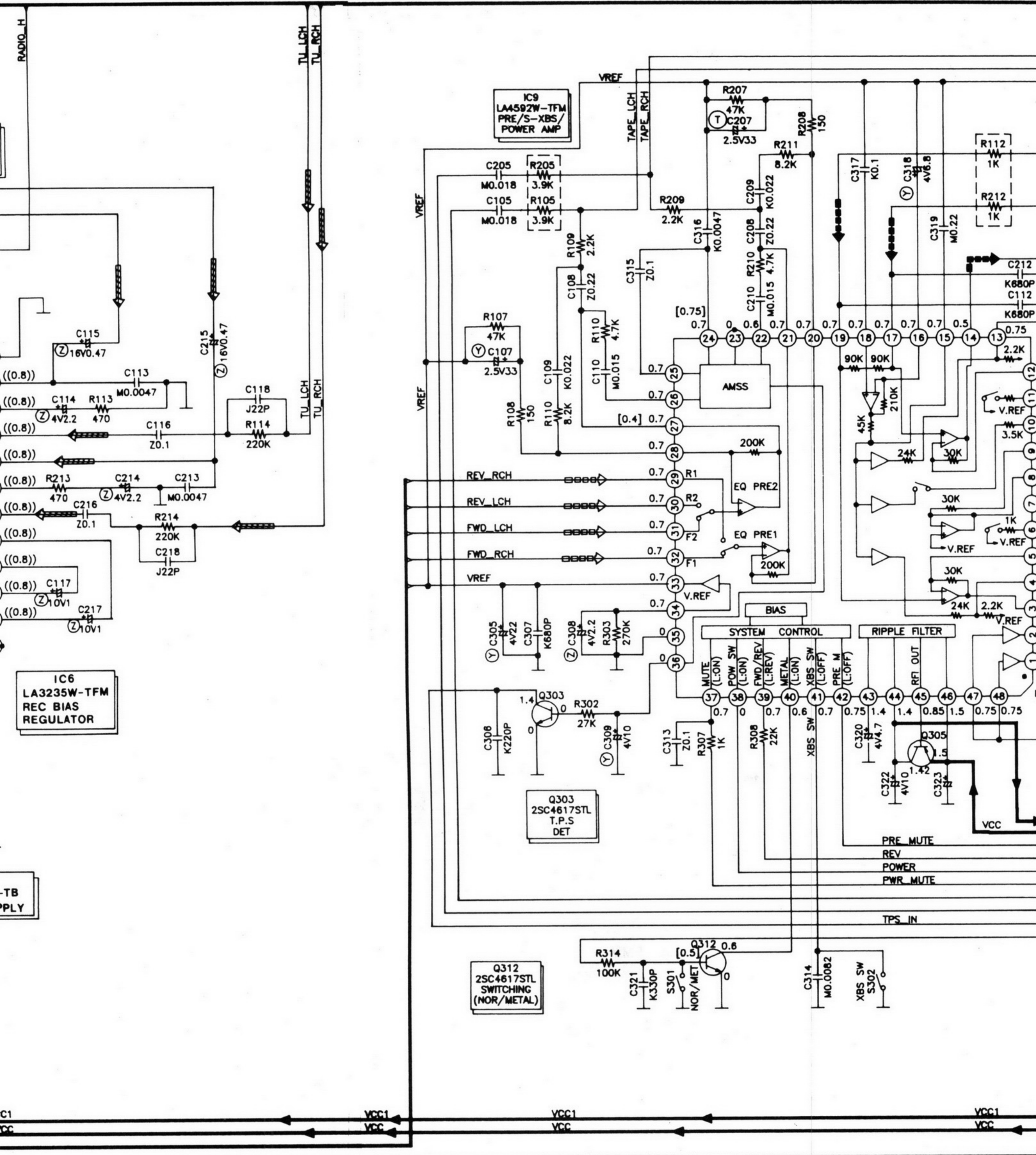
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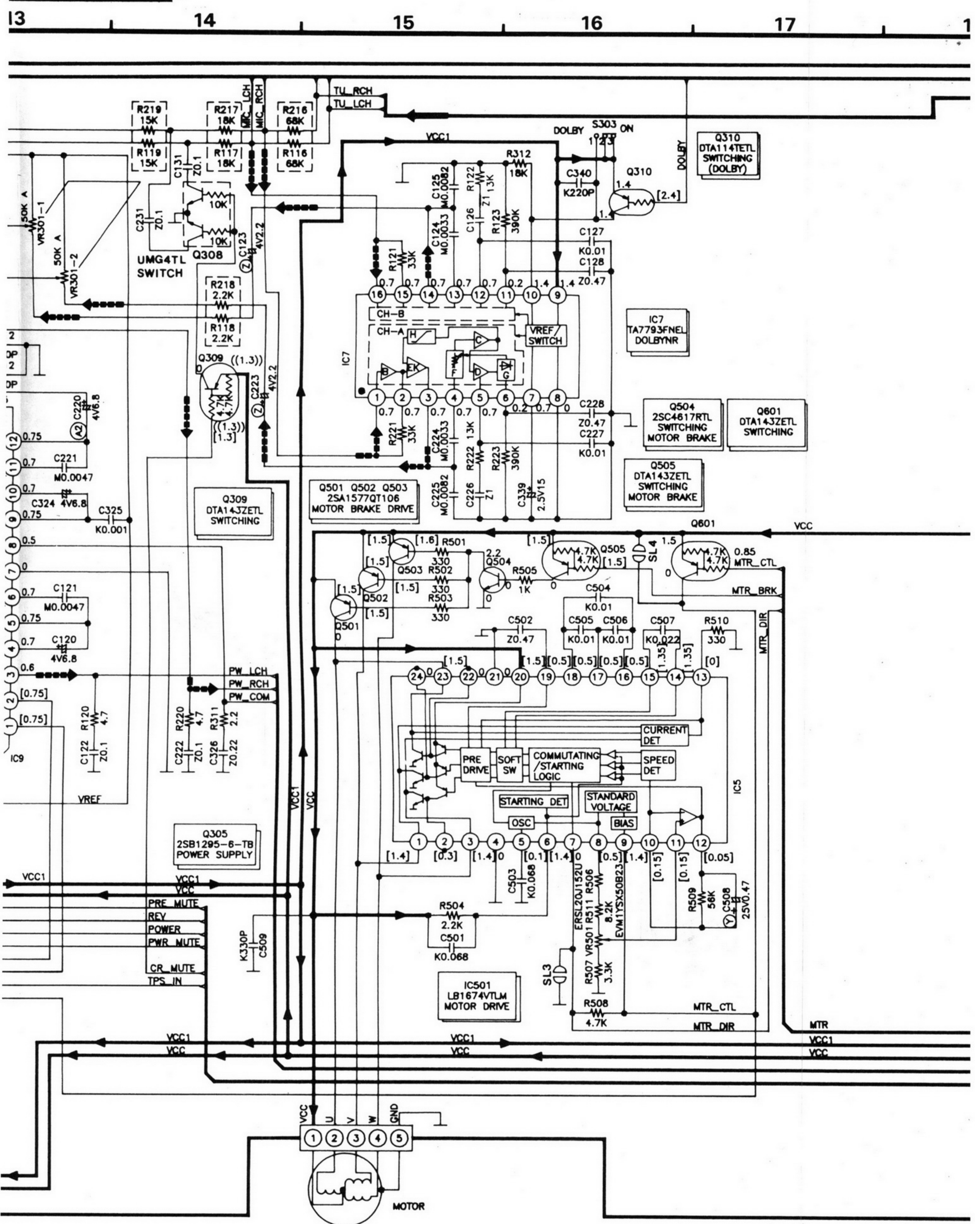
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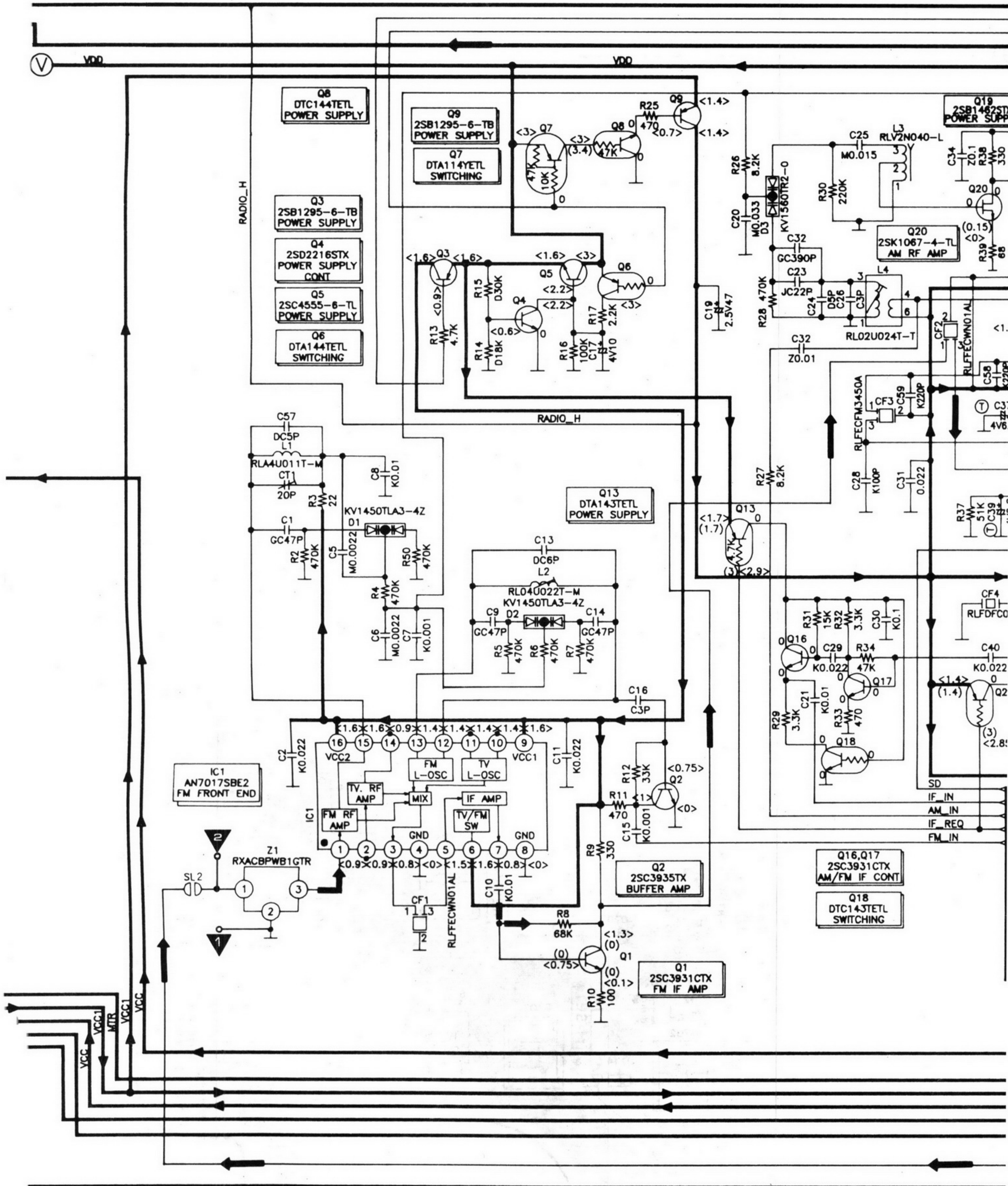
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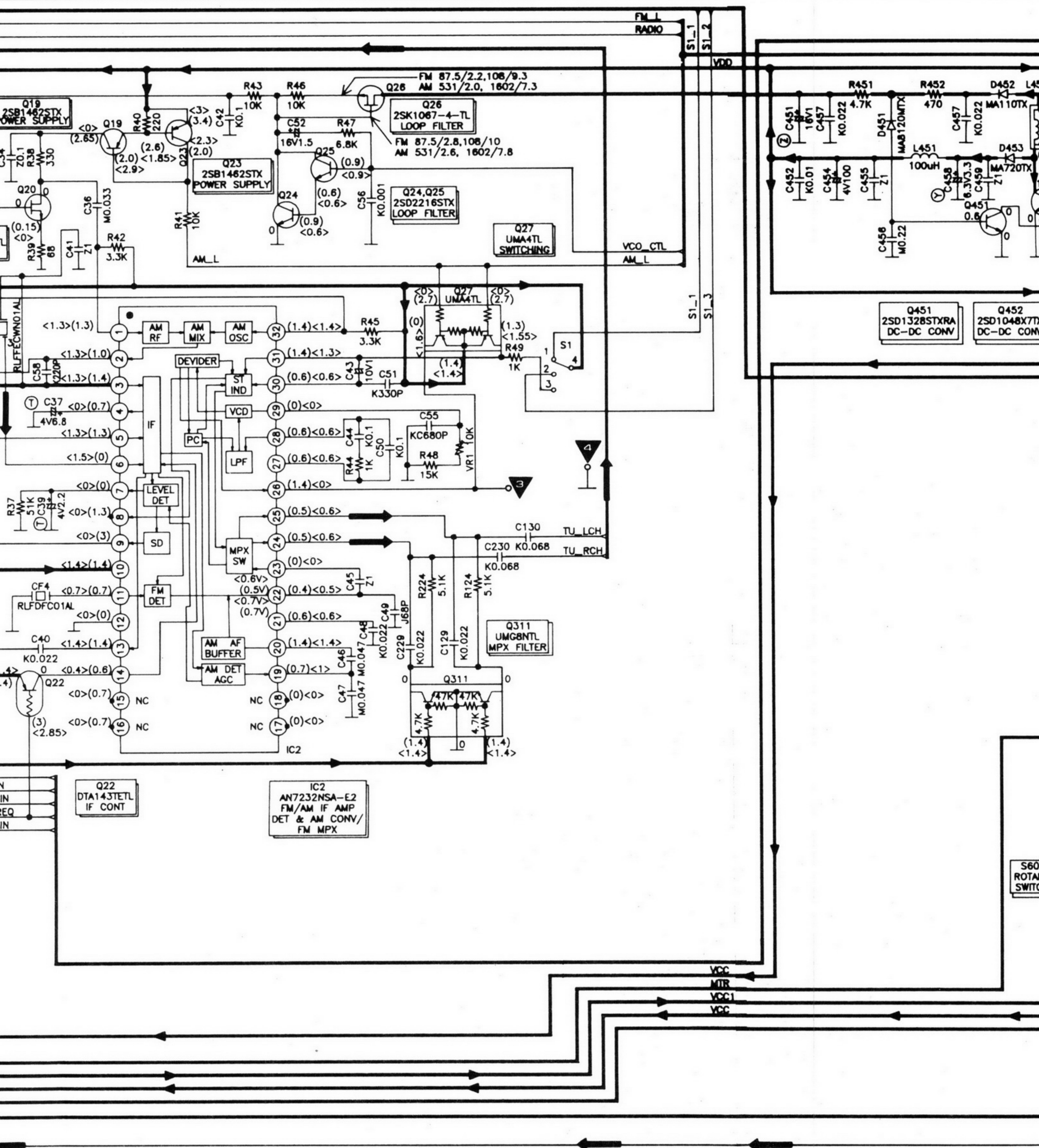
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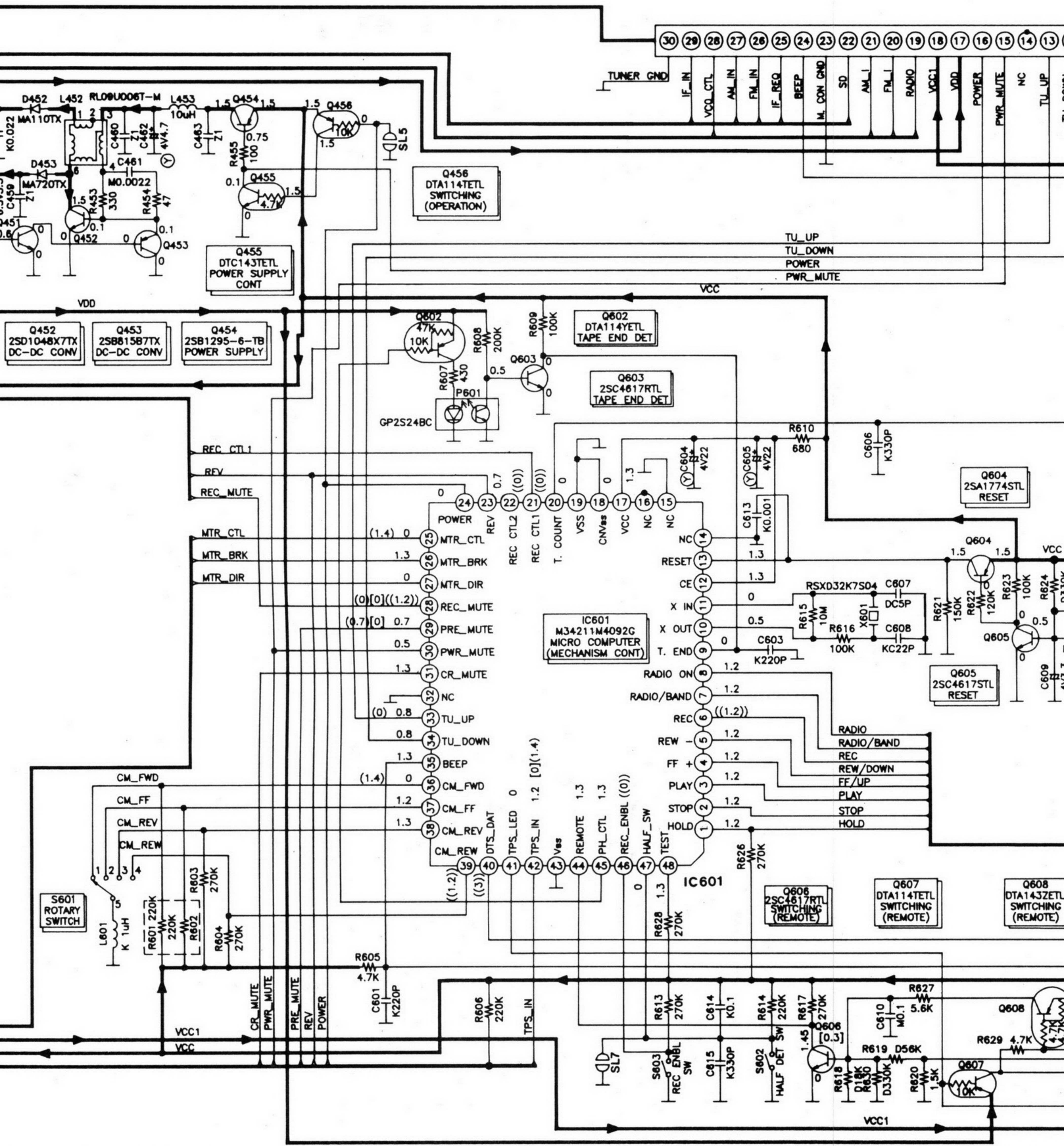




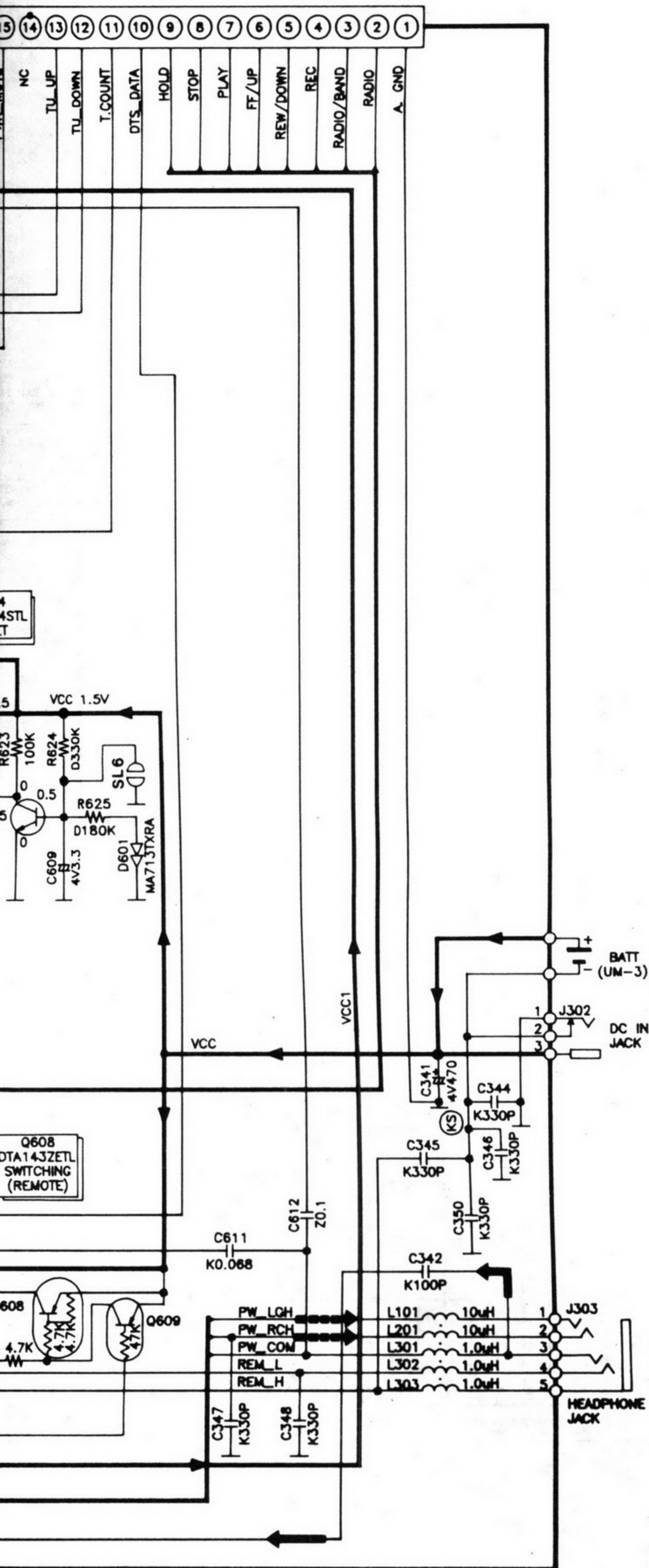




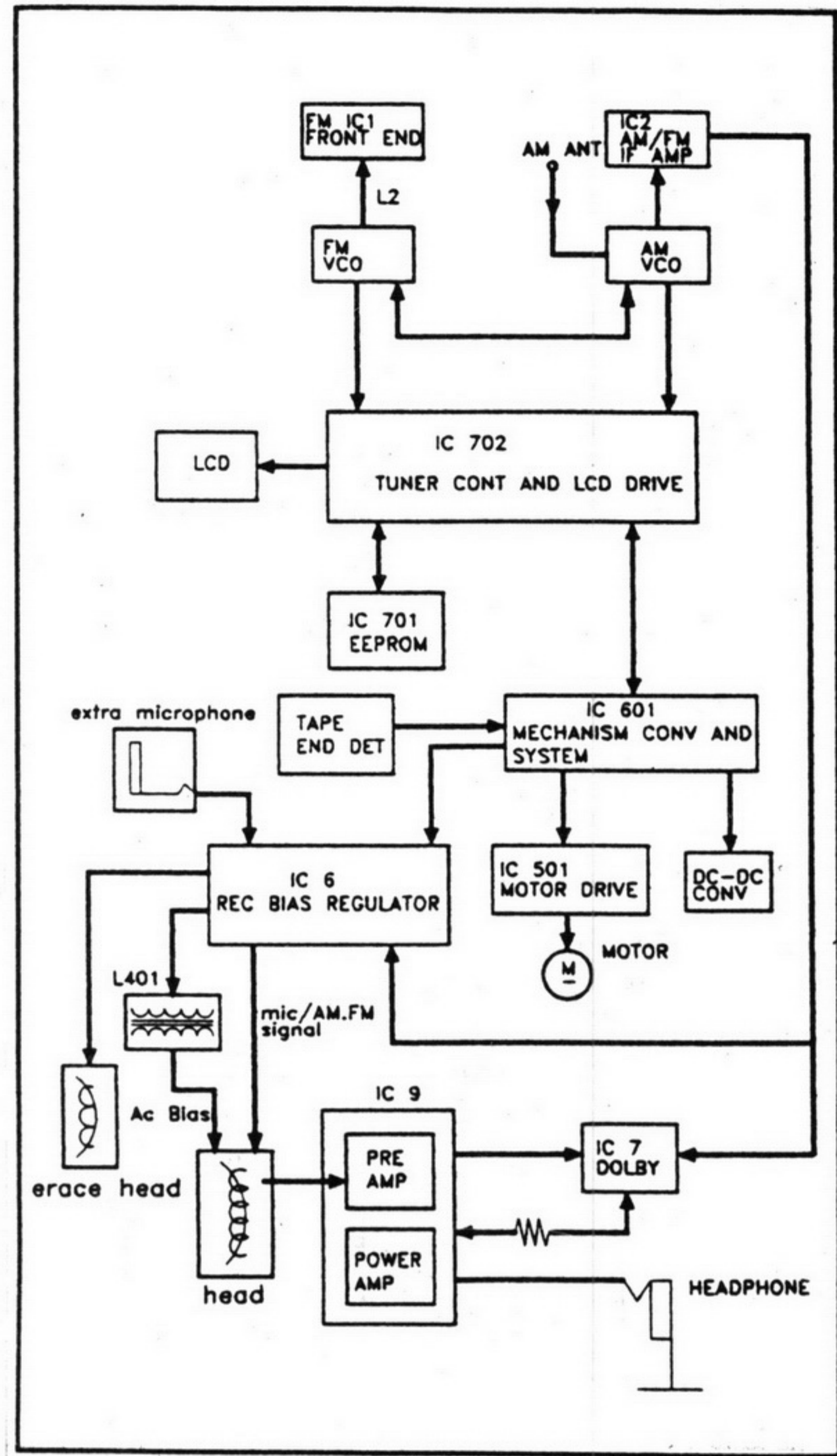






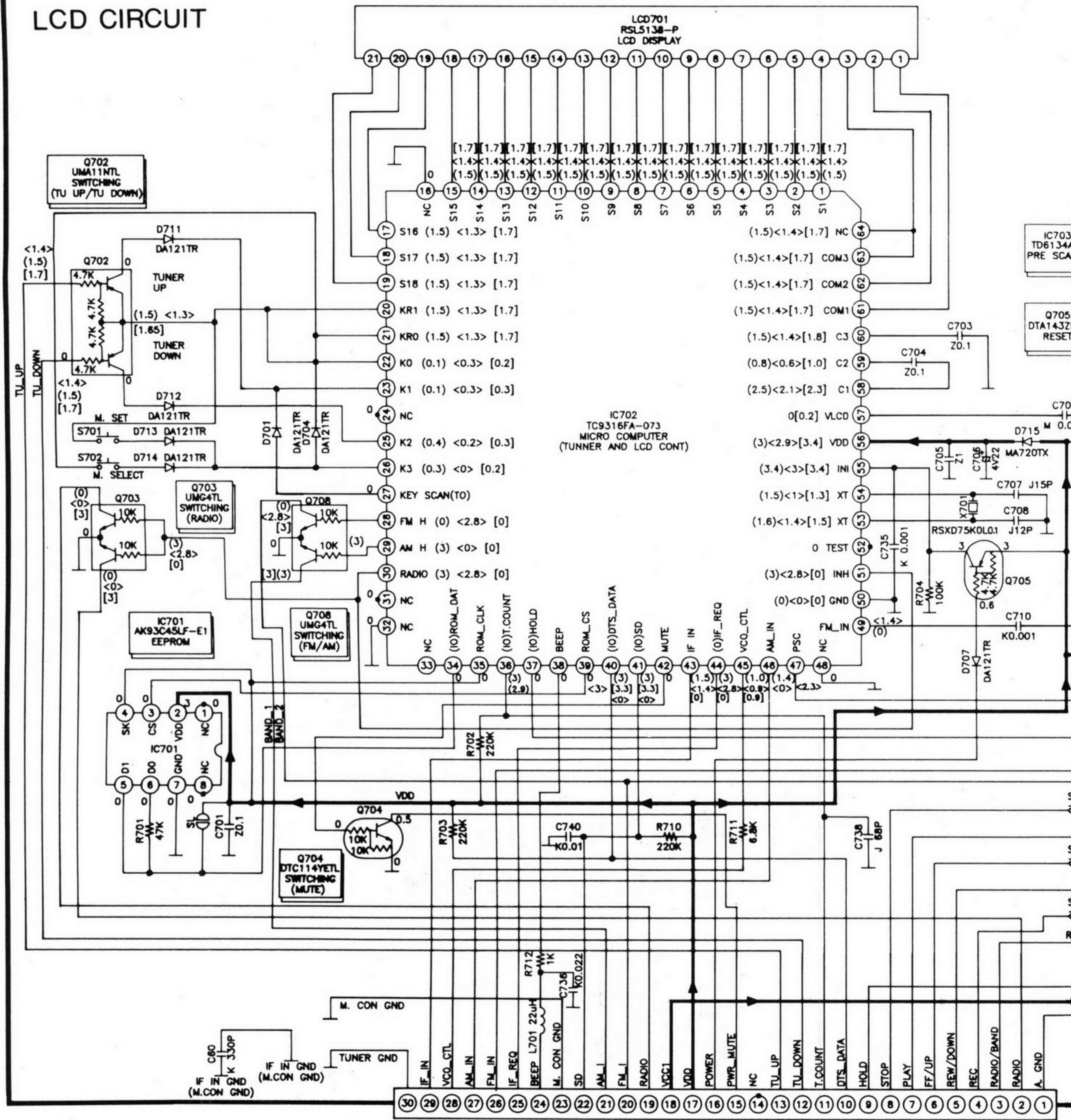


● BLOCK DIAGRAM



# SCHEMATIC DIAGRAM

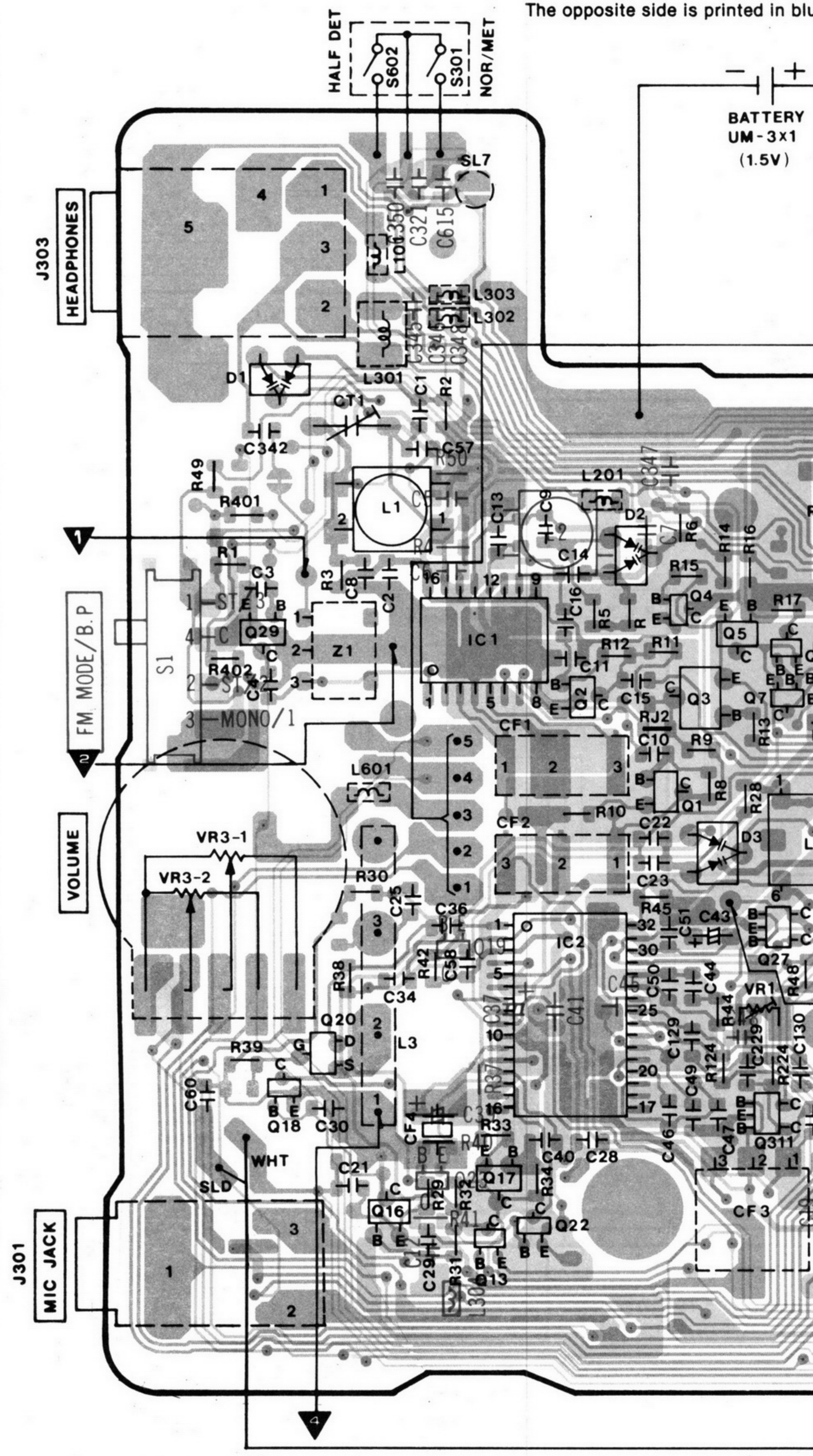
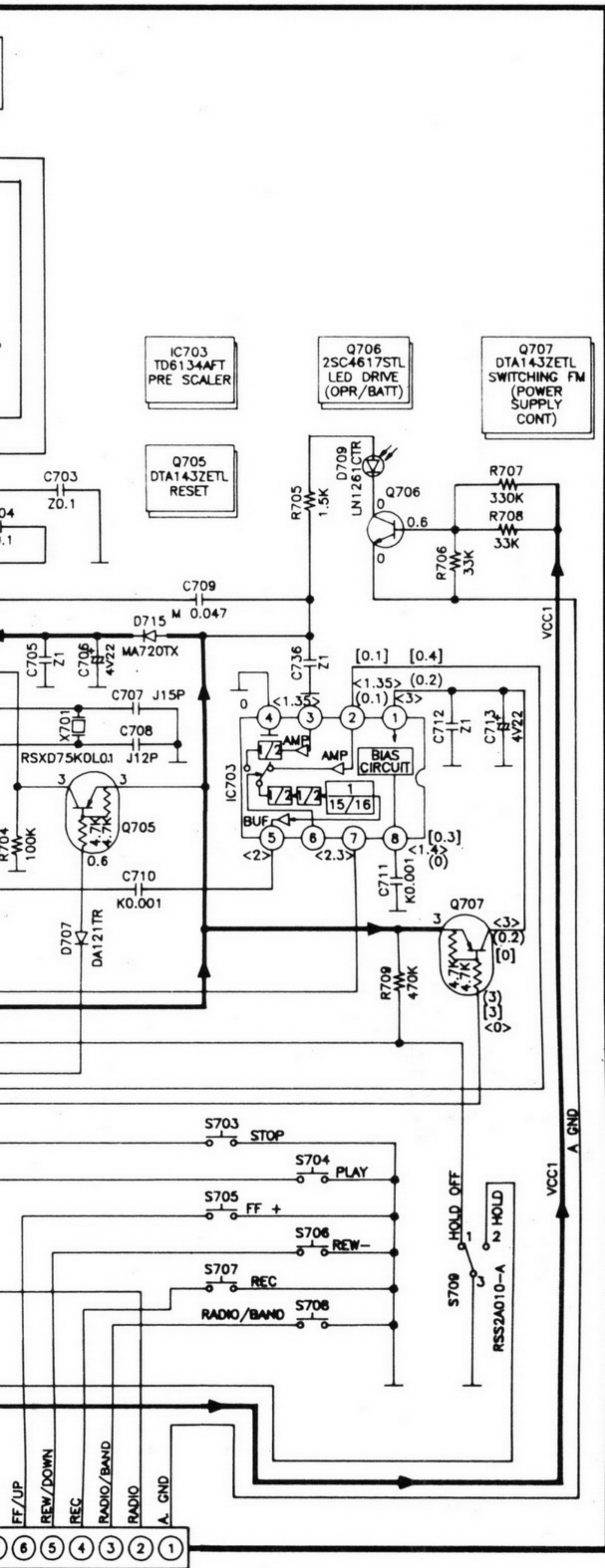
## LCD CIRCUIT



# PRINTED CIRCUIT BOARDS

### Notes:

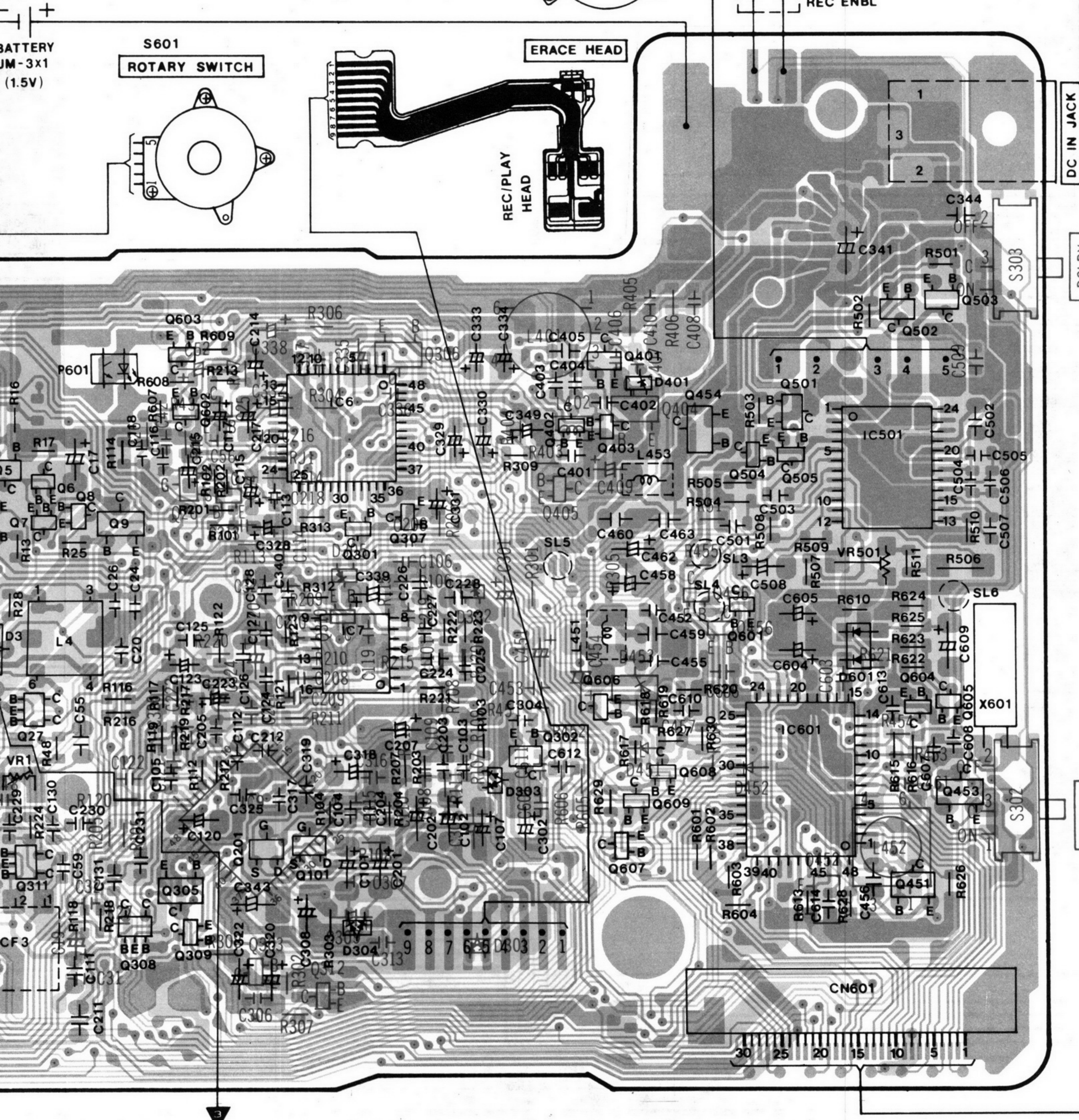
- In this printed circuit board diagram foil patterns on the board facing the viewer are printed in black. The opposite side is printed in blue.



rd diagram, the parts and facing toward you are

- The "•" mark denotes the connection points of double-faced foil patterns (through holes) on both side of the printed circuit board.
- This printed circuit board diagram may be modified at any time with the development of new technology.

ted in blue.



P.C.B. Ass'y (RFKJQXF50E)