

# Service Manual

Radio Cassette

## RX-F6L

FM-LW-MW-SW Stereo Radio Cassette Recorder



### ■ SPECIFICATIONS

#### General:

Power Requirement: Battery; 9V (Six "C" Size Flashlight Batteries)  
(National UM-2 or equivalent)  
AC; 220V, 50Hz with AC Adaptor  
(240V, 50Hz with AC Adaptor...For U.K)

Car battery; with optional car adaptor RP-917

Power Consumption: AC Adaptor only (10W)

Power Output: 7W (3.5W×2)...MPO

Speaker: Woofer; 10cm (4") PM Dynamic Speaker (3Ω)

Tweeter; 1.5cm (5/8") Ceramic Speaker (700Ω)

Input: MIC; sensitivity 0.25mV/applicable microphone impedance  
200~600Ω

LINE IN; sensitivity 200mV/50kΩ over

DC IN; 9V

Output: LINE OUT; sensitivity 420mV/10kΩ under

EXT SP; 3Ω~8Ω

Headphones; 32Ω, 320mV

Dimensions: 412mm(W)×131mm(H)×100mm(D)  
(16<sup>1</sup>/<sub>4</sub>×5<sup>3</sup>/<sub>16</sub>×3<sup>15</sup>/<sub>16</sub>"

Weight: 2kg (4 lb. 6.5 oz.) without batteries

#### Radio Section:

Radio Frequency Range: FM; 87.5~108MHz  
LW; 150~285kHz (2,000~1,060m)  
MW; 520~1,610kHz (577~186m)  
SW; 5.9~18MHz (50.8~16.7m)

Intermediate Frequency: FM; 10.7MHz  
AM (LW/MW/SW); 455kHz  
AM (LW/MW/SW); 470kHz (For U.K.)

Sensitivity: FM; 2.5μV/500mW output  
LW; 251μV/m/50mW output  
MW; 141μV/m/50mW output  
SW; 10μV/50mW output

#### Tape Deck Section:

Frequency Response: 100~10,000Hz

Recording System: AC bias, Magnet erase

Tape Speed: 4.8cm/s, (1<sup>7</sup>/<sub>8</sub> ips)

Wow and flutter: 0.2% (WRMS)

Program Time: 1 hour with C-60 cassette tape

Track System: 4-track 2 channel stereo recording and playback

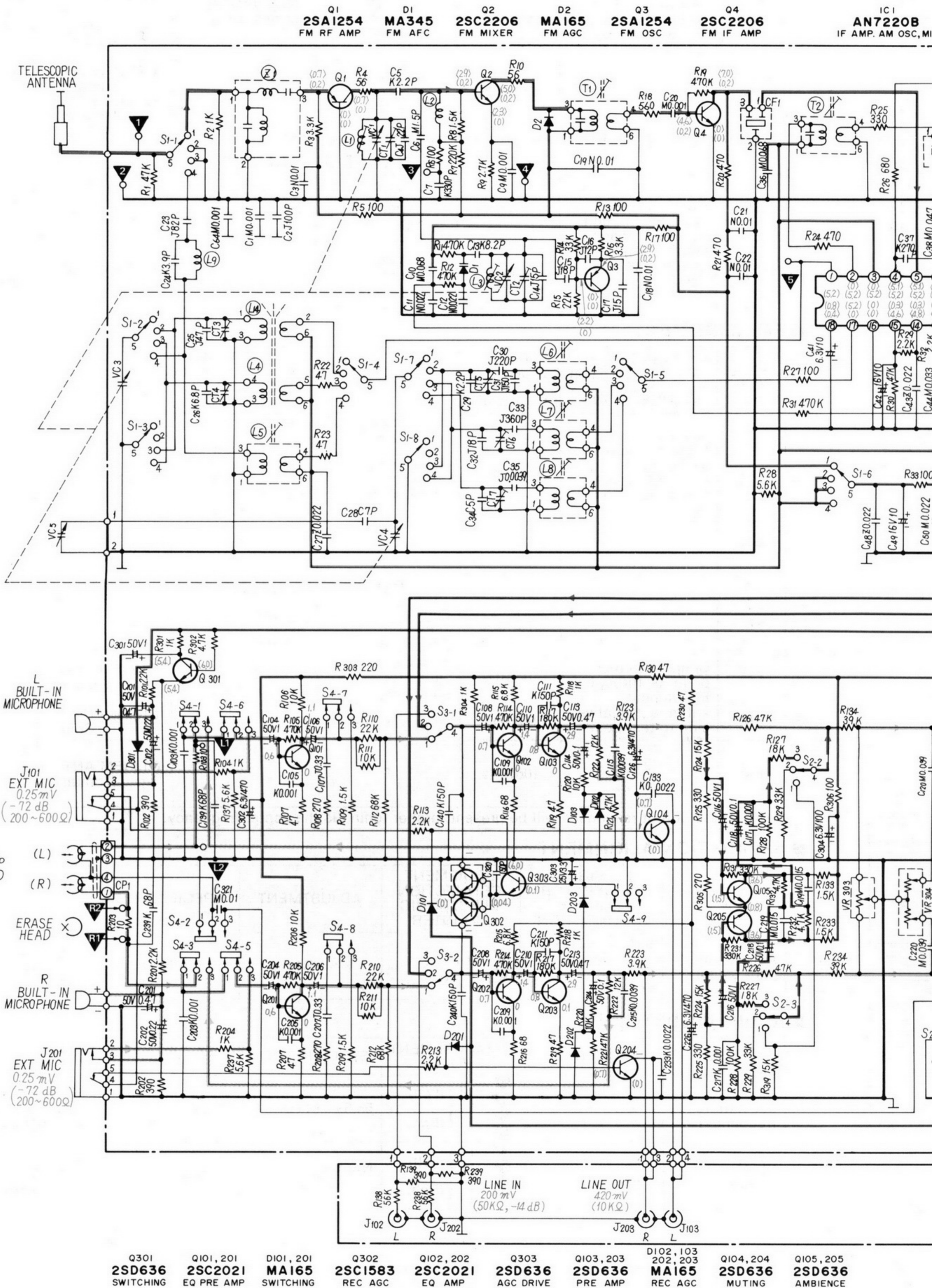
Specifications are subject to change without notice.

# Panasonic

Matsushita Electric Trading Co., Ltd.

P.O. Box 288, Central Osaka Japan

# SCHEMATIC DIAGRAM MO

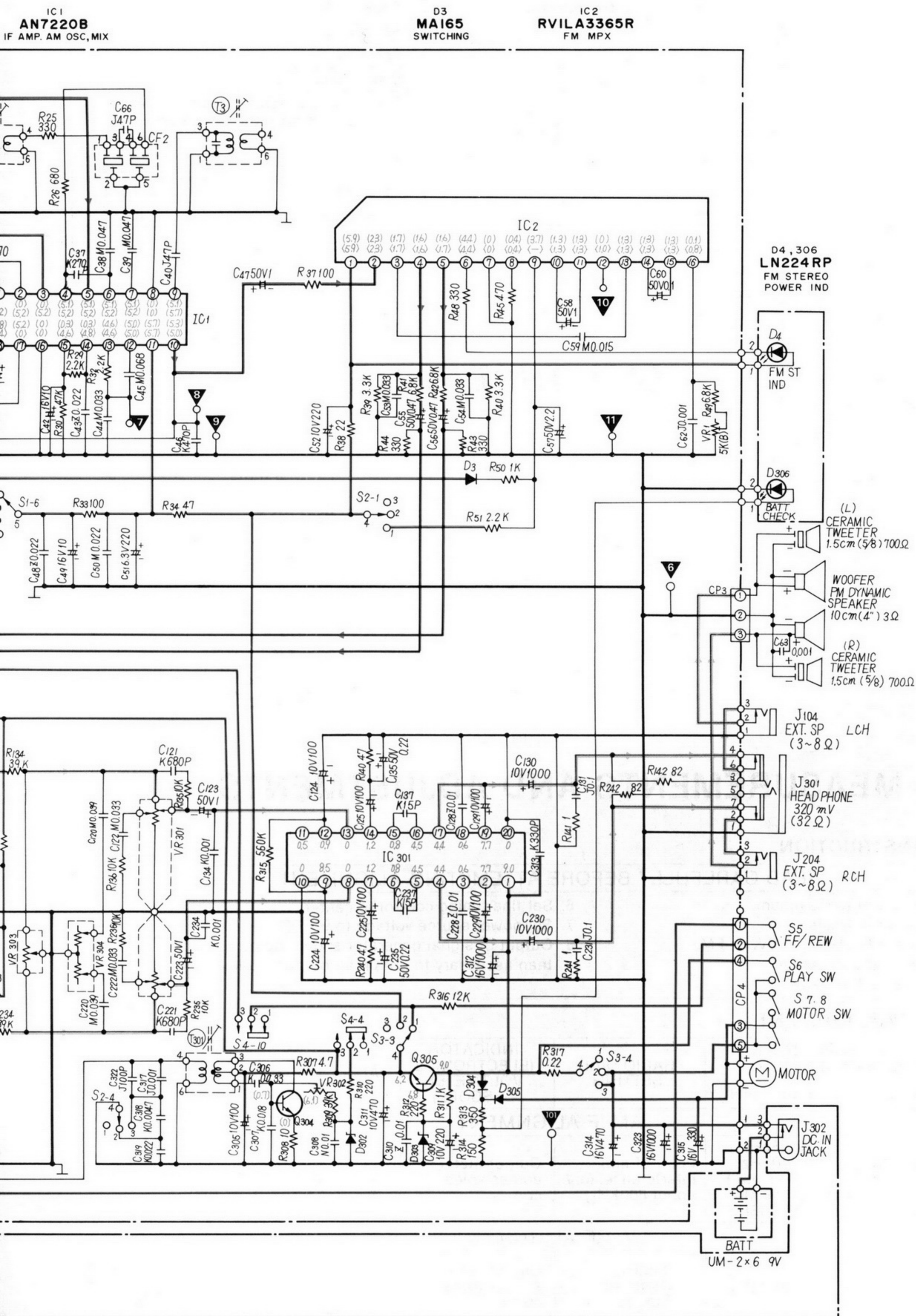


- |                            |                       |                           |                       |                         |                            |                                      |
|----------------------------|-----------------------|---------------------------|-----------------------|-------------------------|----------------------------|--------------------------------------|
| Q1<br>2SA1254<br>FM RF AMP | D1<br>MA345<br>FM AFC | Q2<br>2SC2206<br>FM MIXER | D2<br>MA165<br>FM AGC | Q3<br>2SA1254<br>FM OSC | Q4<br>2SC2206<br>FM IF AMP | IC1<br>AN7220B<br>IF AMP. AM OSC, MI |
|----------------------------|-----------------------|---------------------------|-----------------------|-------------------------|----------------------------|--------------------------------------|

- |                             |                                    |                                 |                            |                                |                             |                                |   |                               |                                 |
|-----------------------------|------------------------------------|---------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------------|---|-------------------------------|---------------------------------|
| Q301<br>2SD636<br>SWITCHING | Q101, 201<br>2SC2021<br>EQ PRE AMP | D101, 201<br>MA165<br>SWITCHING | Q302<br>2SC1583<br>REC AGC | Q102, 202<br>2SC2021<br>EQ AMP | Q303<br>2SD636<br>AGC DRIVE | Q103, 203<br>2SD636<br>PRE AMP | D102, 103<br>202, 203<br>MA165<br>REC AGC | Q104, 204<br>2SD636<br>MUTING | Q105, 205<br>2SD636<br>AMBIENCE |
|-----------------------------|------------------------------------|---------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------------|---|-------------------------------|---------------------------------|

+ (B) Voltage Line      → Tape (PLAY BACK) Signal Line      → Radio (FM) Signal Line      → Tape

# AM MODEL RX-F6L



Q5 36 ICE	Q304 2SD638 BIAS OSC	D302 MA1056 BIAS OSC	Q305 2SD638 REGULATOR	D303 MA1068 REGULATOR	IC301 RVILA4505R POWER AMP	D304,305 MA165 SWITCHING
-----------------	----------------------------	----------------------------	-----------------------------	-----------------------------	----------------------------------	--------------------------------

Tape (RECORD) Signal Line

Ambience (DELAY) Signal