

# Service Manual

Portable Stereo Component System

Radio Cassette

## RX-CT890



### Colour

(K) ..... Black Type

### Areas

(GC) ..... Saudi Arabia, Kuwait,  
Singapore, Malaysia

(GU) ..... Asia, Latin America,  
Middle East and Africa

## TAPE DECK : SG20W Mechanism Series

### Specifications

#### Radio

##### Frequency range

FM	88 – 108 MHz
MW	530 – 1605 kHz
SW1	2.3 – 7.0 MHz
SW2	7.0 – 22.0 MHz

##### Intermediate frequency

FM	10.7 MHz
AM	450 kHz

##### Sensitivity

FM	3.55 $\mu$ V/50mW output (- 3dB limit sens.)
MW	178 $\mu$ V/50mW output
SW1	199.5 $\mu$ V/50mW output
SW2	15.85 $\mu$ V/50mW output

#### Tape recorder

Track system 4 track, 2 channel, stereo

Recording system AC bias

Erasing system Magnet

Monitor system Variable sound monitor

##### Frequency range

Normal	60 – 14000 Hz
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#### General

##### Power requirement

###### AC

110 – 127V/200 – 220V/  
230 – 250V, 50/60 Hz

Power consumption: 50W

###### Battery

12V (Eight R20/LR20, D, UM-1 batteries)

• Do Not use rechargeable type batteries.

##### Power Output

300W (150 W  $\times$  2) ...PMPO

27W ... RMS (max.)

2 Woofer; 12 cm

2 Tweeter; 1.5cm

##### Speakers

##### Jacks

###### Input

CD/LINE IN: - 14dB/49k  $\Omega$

###### Output

SPEAKER: 6 – 16  $\Omega$

Headphones; 32  $\Omega$

##### Dimensions

###### (W $\times$ H $\times$ D)

614  $\times$  255  $\times$  215 mm

Main unit; 283  $\times$  255  $\times$  215 mm

Speaker box; 174  $\times$  254  $\times$  189 mm

6.5 kg without batteries

##### Weight

#### Note:

Specifications are subject to change without notice.

Weight and dimensions are approximate.

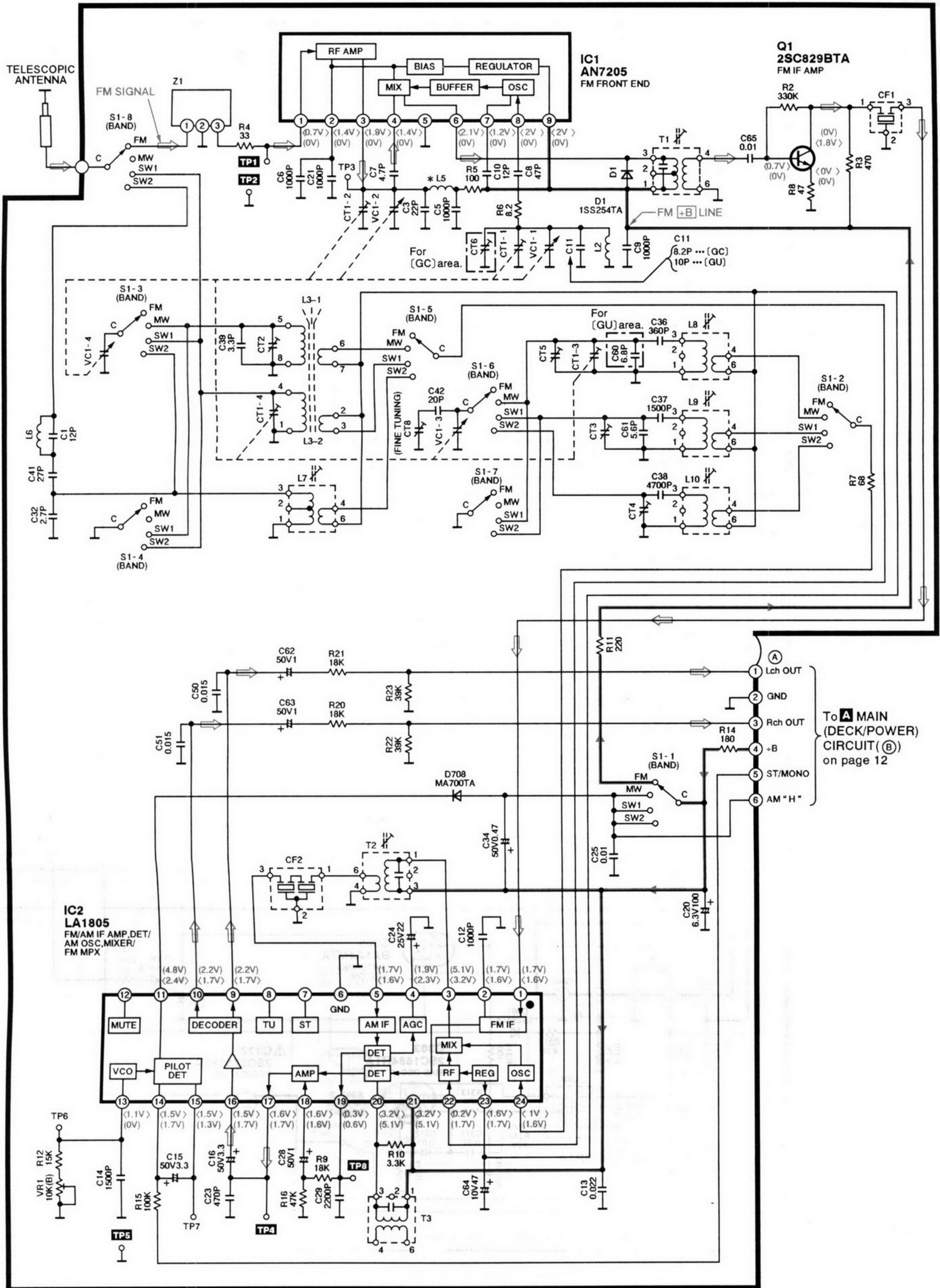
#### ⚠ WARNING

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.

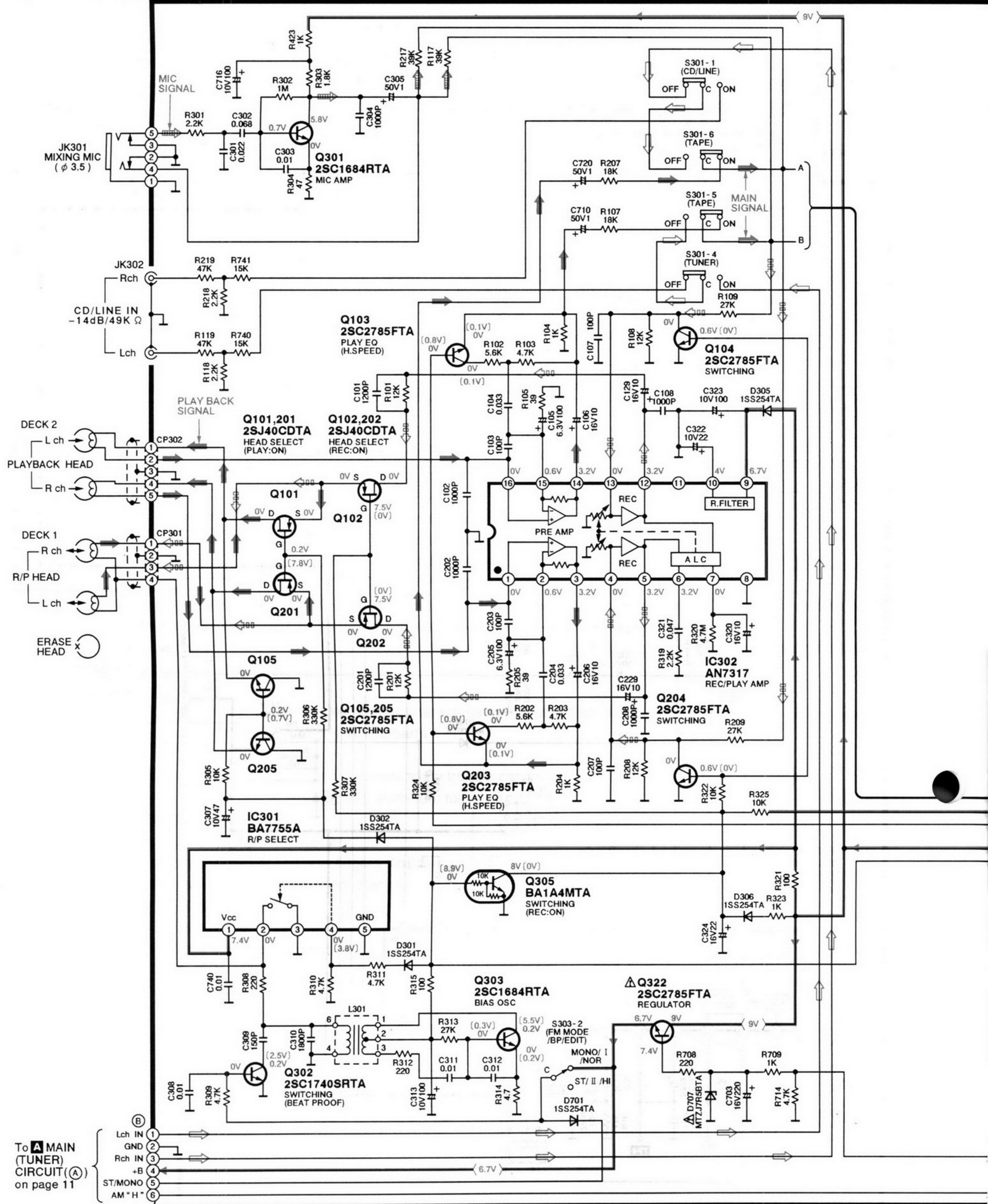
# Panasonic®

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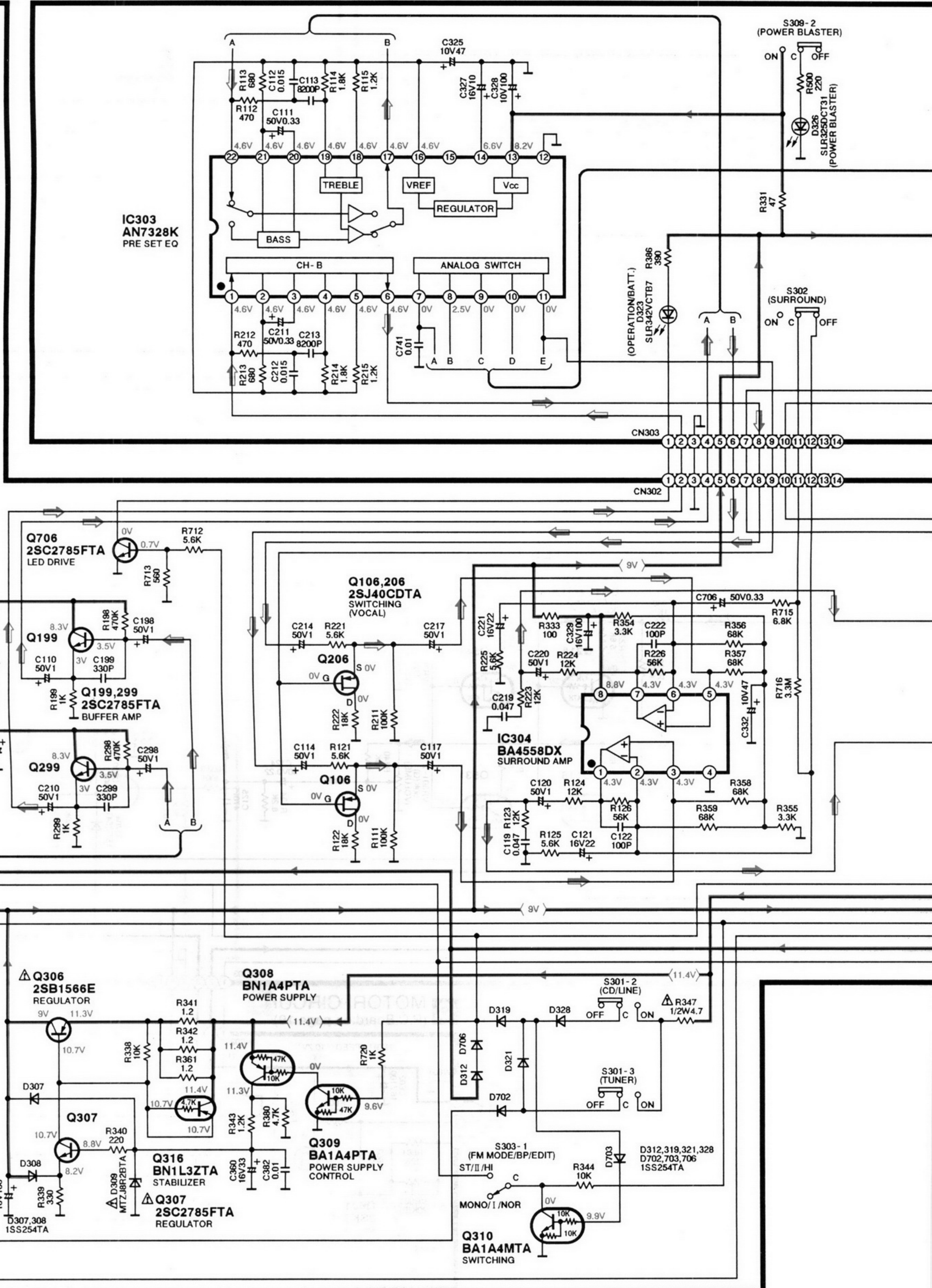
**A** MAIN(TUNER) CIRCUIT (P.C.Board: on page 17)



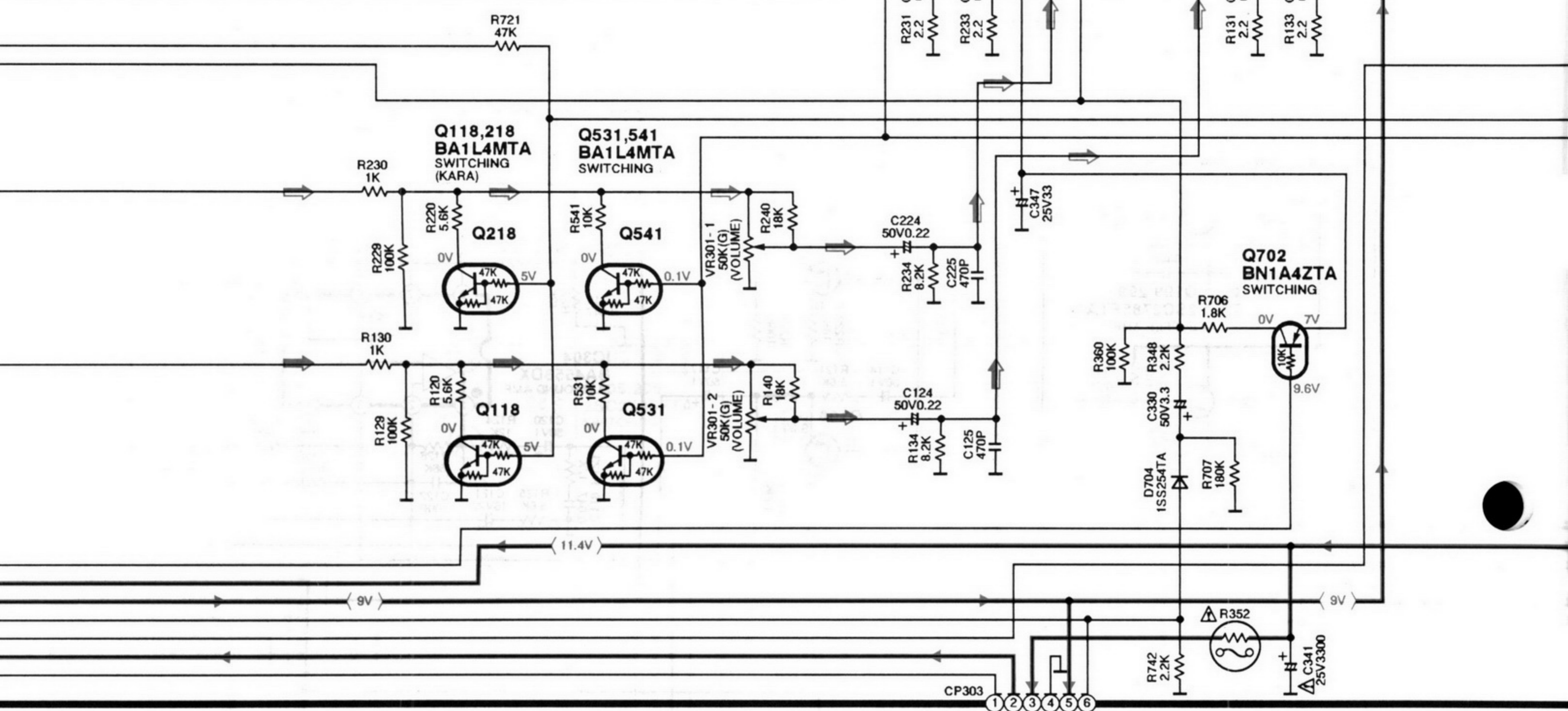
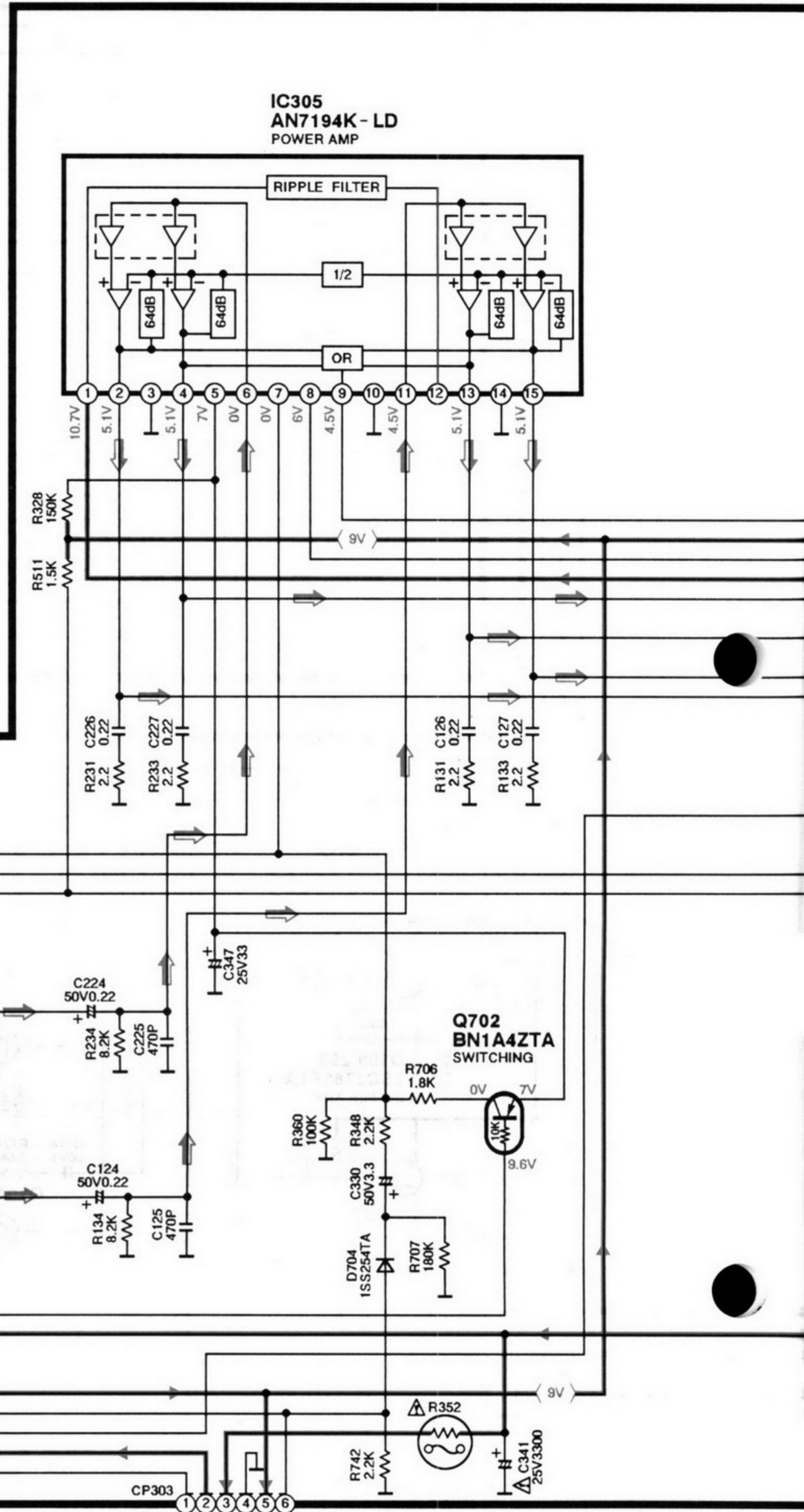
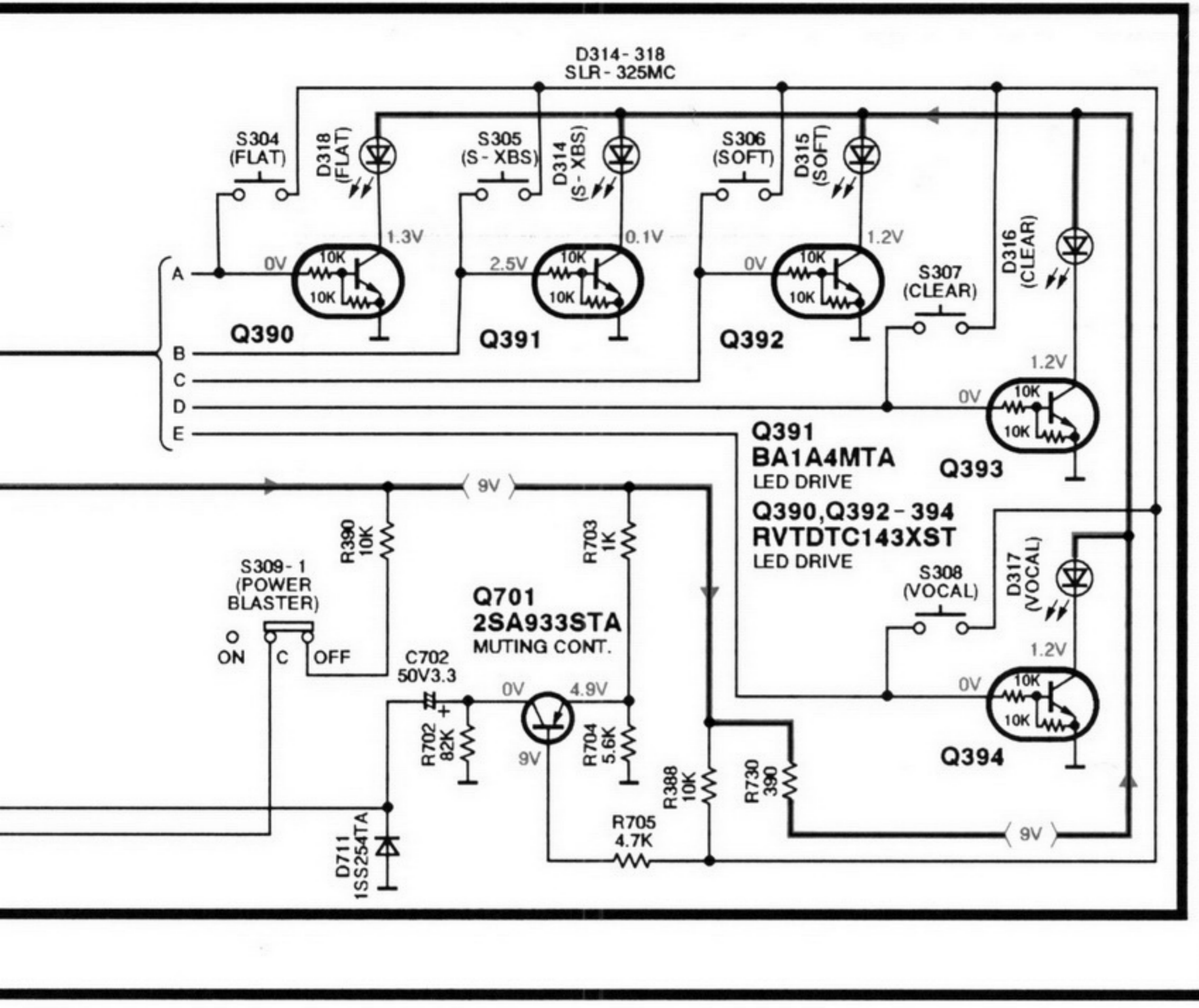
**A** MAIN(DECK/POWER)CIRCUIT (P.C.Board: on page 17)



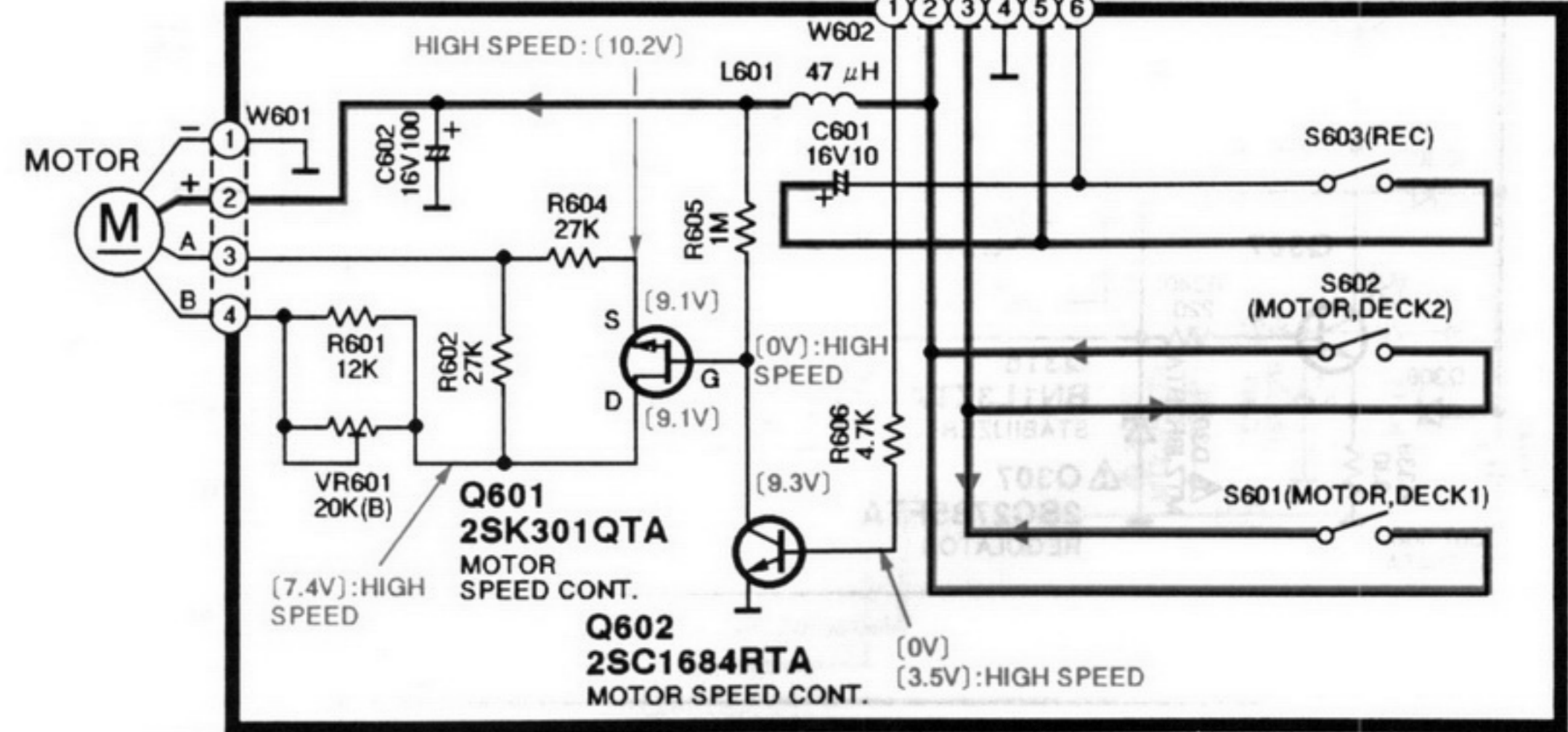
**B** OPERATION CIRCUIT (P.C.Board: on page 18)

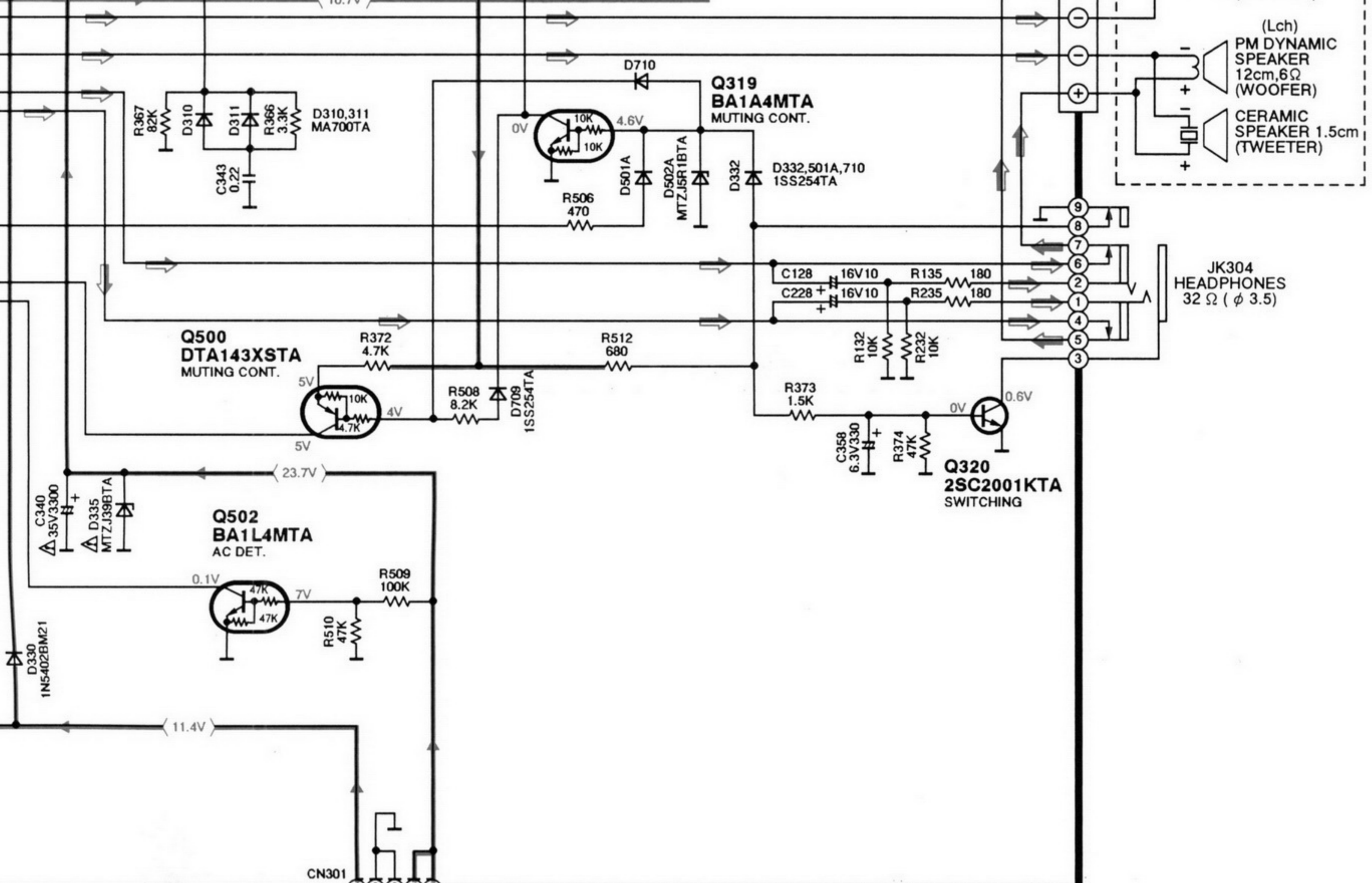
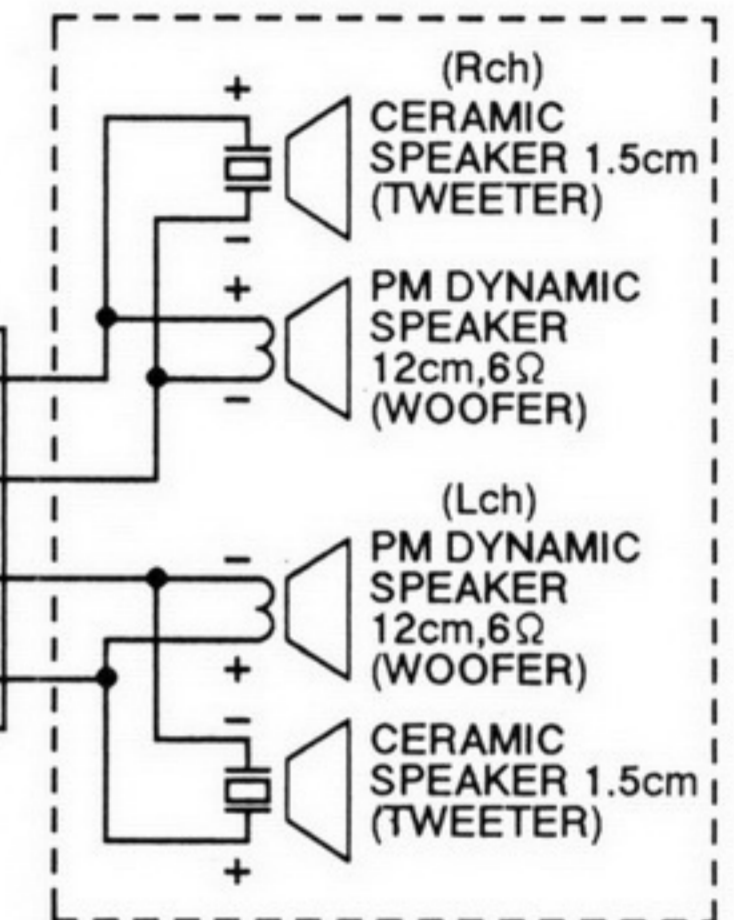
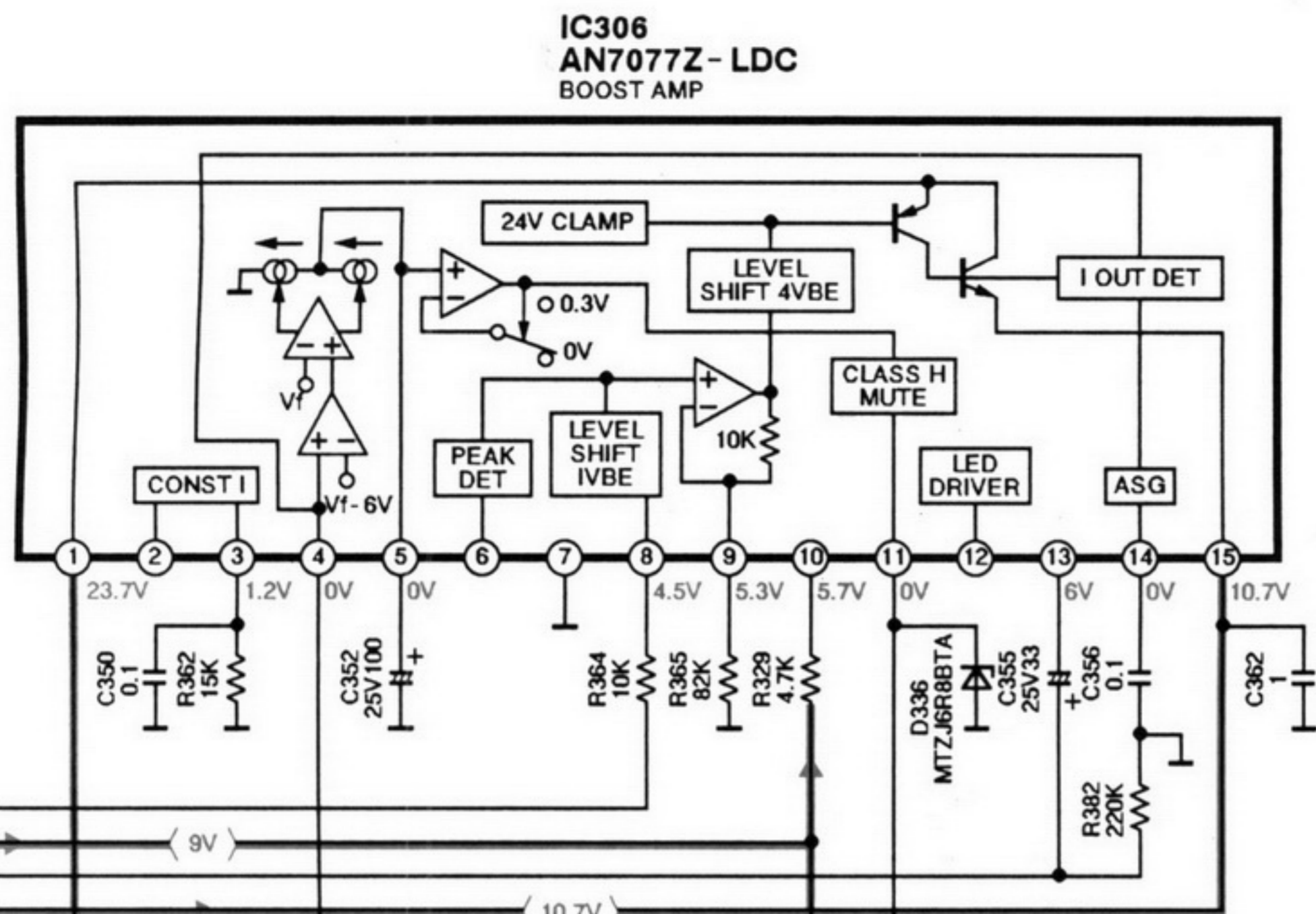


**A** MAIN (DECK/POWER) CIRCUIT  
(P.C.Board: on page 17)

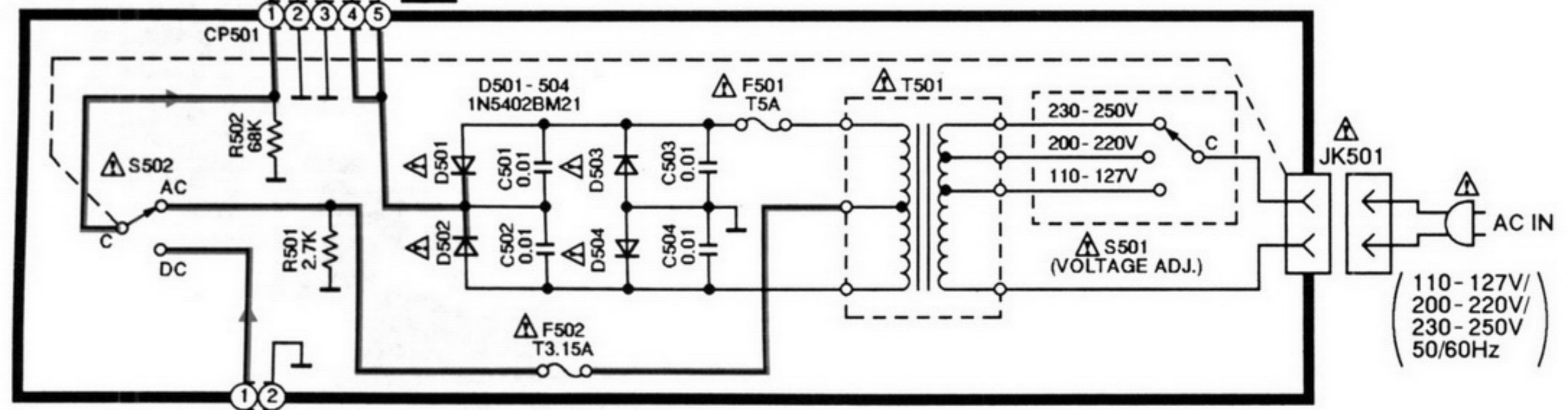


**C** MOTOR CIRCUIT  
(P.C.Board: on page 19)

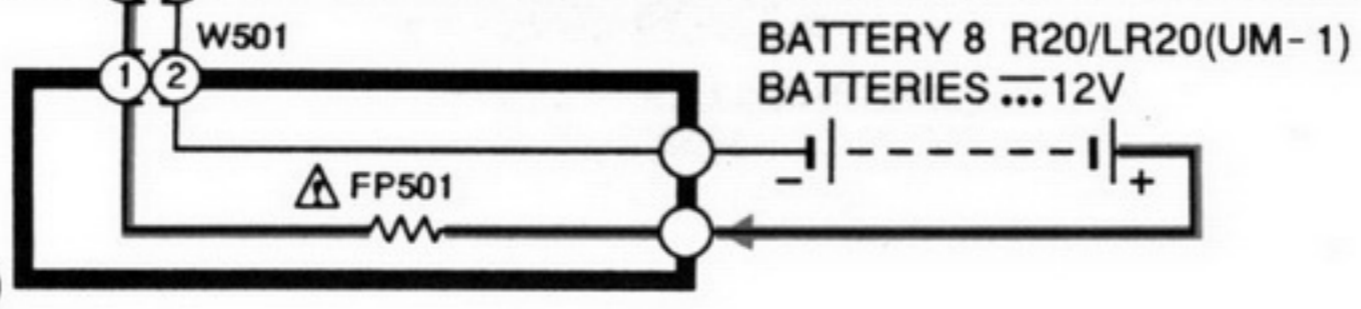




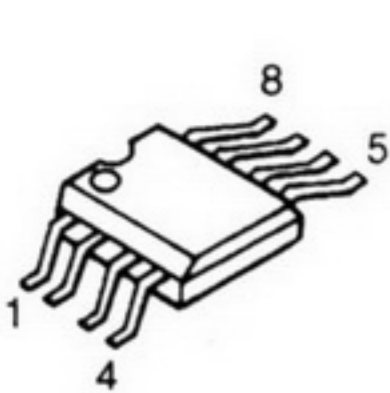
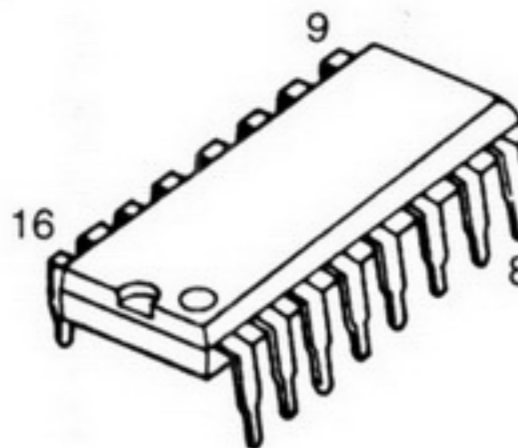
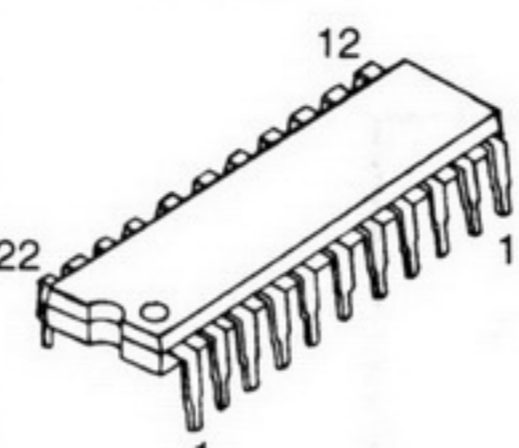
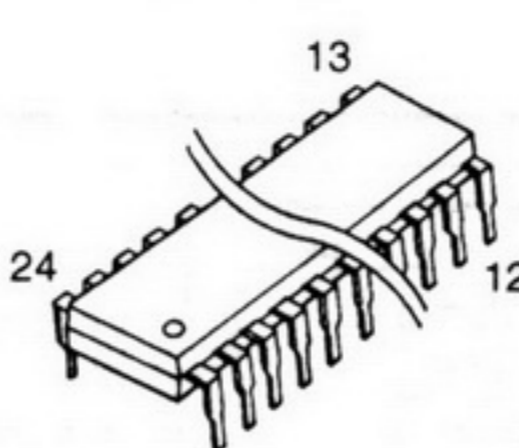
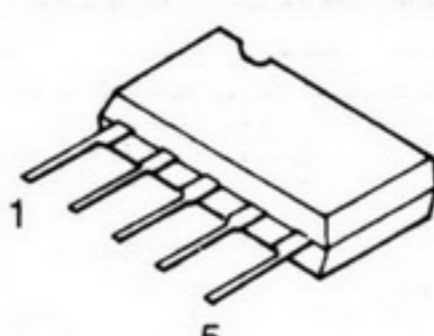
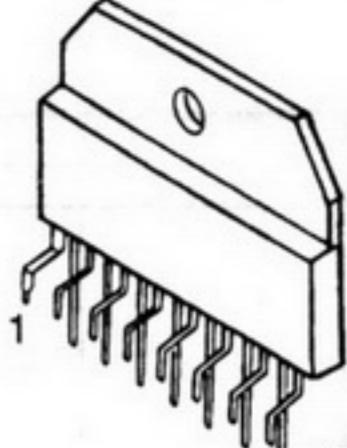
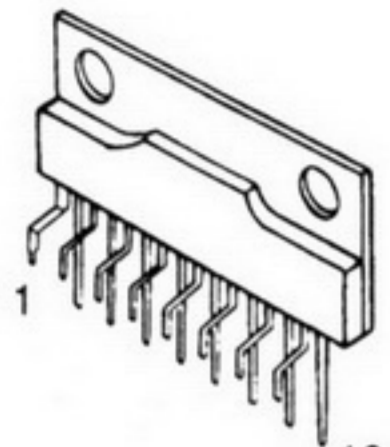
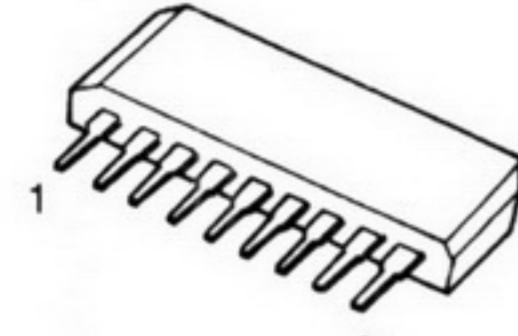
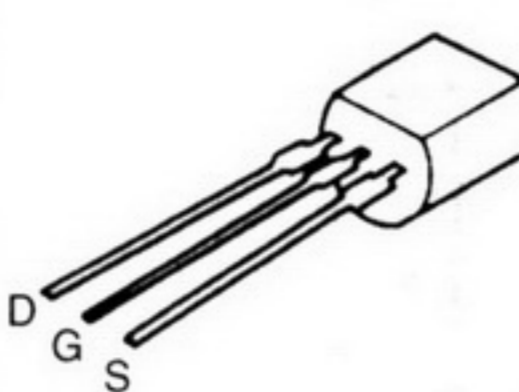
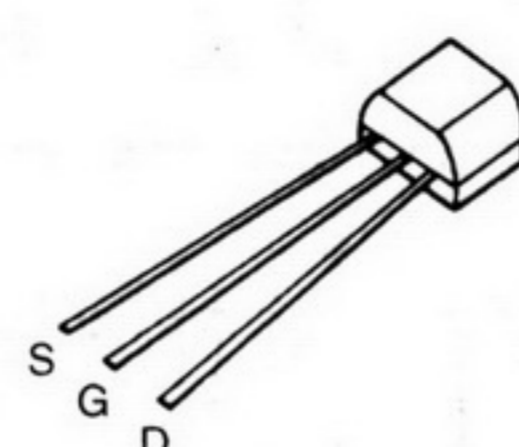
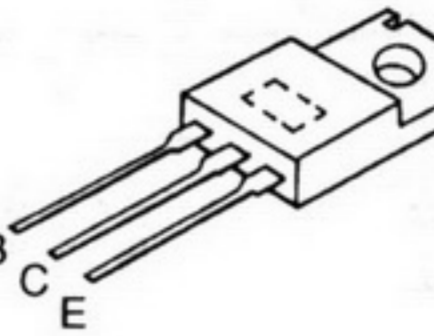
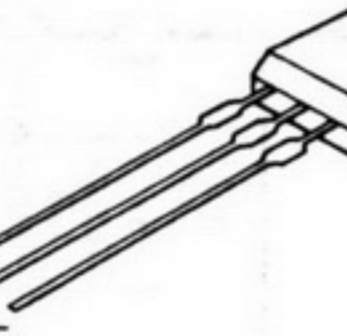

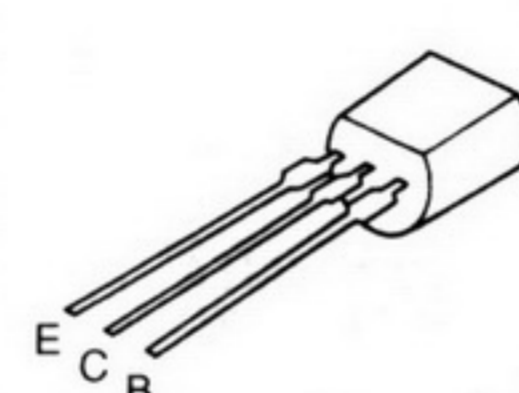
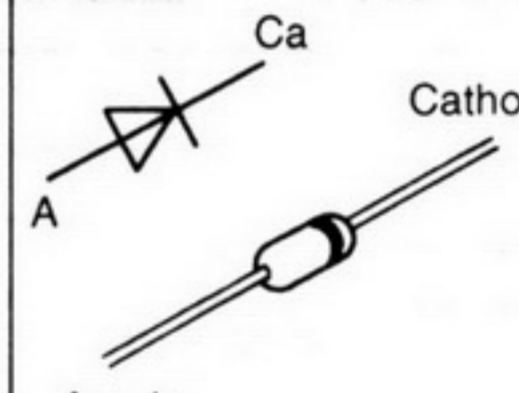
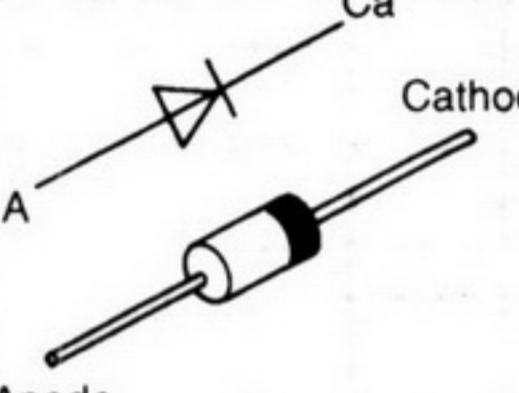
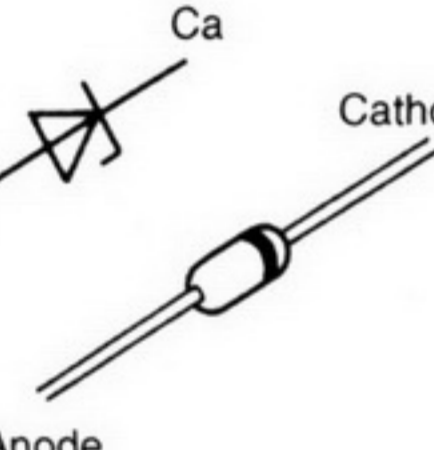
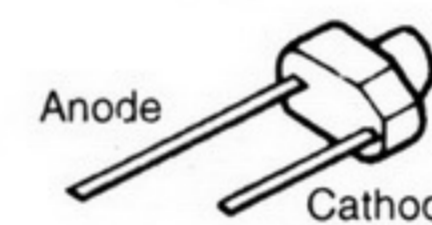
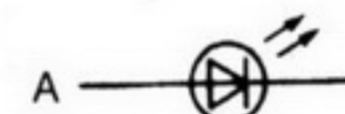
**E POWER SUPPLY CIRCUIT (P.C.Board: on page 19)**



**D BATTERY TERMINAL CIRCUIT (P.C.Board: on page 18)**



● Type Illustration of IC's Transistors and Diodes

<p>BA4558DX</p> 	<p>AN7317</p> 	<p>AN7328K</p> 	<p>LA1805</p> 	<p>BA7755A</p> 	<p>AN7077Z-LDC</p> 
<p>AN7194K-LD</p> 	<p>AN7205</p> 	<p>2SK301QTA</p> 	<p>2SJ40CDTA</p> 	<p>2SB1566E</p> 	<p>2SA933STA 2SC1740SRTA</p> 
 <p>2SC2785FTA RVTDTA143XST BA1A4MTA BA1A4PTA BA1L4MTA BN1A4PTA BN1A4ZTA BN1L3ZTA</p>	 <p>2SC1684RTA 2SC2001KTA 2SC829BTA</p>		<p>1SS254TA MA700TA</p> 	<p>1N5402BM21</p> 	
 <p>MTZJ5R1BTA MTZJ6R8BTA MTZJ7R5BTA MTZJ8R2BTA MTZJ39CTA</p>	<p>SLR-325MC SLR325DCT31</p>  	<p>SLR342VCTB7</p> 