

Service Manual

Portable Stereo Component System

Radio Cassette
RX-DS660

COMPACT
disc
DIGITAL AUDIO

DIGITAL



Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	
(EG)	F.R. Germany & Italy.	

RX-FD55 MECHANISM SERIES (AR300)

■ SPECIFICATIONS

General:

Power Requirement: AC; 220V 50Hz...(E, EG)
240V, 50Hz...(EB)
Battery; 15V (10 UM-1, R20/LR20 batteries)

Memory Back-up Battery for Computer; 6V (4 UM-3, R6/LR6 batteries)

DC IN; 13.2V (⊖ ⊕)

Power Consumption: 45W (AC only)

Power Output: 30W × 2...PMPO.

15W × 2... MPO....(E)

Speakers:

2-Woofers; 16cm (2.7Ω)

2-Tweeters; 2cm

Input:

AUX; 200mV/47kΩ

Mix. Mic; 5mV/600Ω (φ3.5)

FM ANT; 75Ω

Output:

Speaker; 2.7~8Ω

Headphones; 32Ω (φ3.5)

Dimensions (W × H × D):

702 × 229 × 218mm

Main unit; 349 × 229 × 218mm

Speaker box; 185 × 218 × 183mm

7.1kg without batteries

Weight:

CD Player Section:

Sampling Frequency: 44.1kHz

D-A Conversion: 16-bit linear

Beam Source: Semiconductor laser
(wavelength 780nm)

No. of Channels: 2 channels, stereo

Frequency Response: 20~20,000Hz (+0/-2dB)

S/N Ratio: 79dB (1kHz)

Meure point: speaker out

Wow and Flutter: Unmeasurable

Radio Section:

Frequency Range: FM; 87.5~108MHz

LW; 146~288kHz

MW; 522~1611kHz

Intermediate Frequency: FM; 10.7MHz

AM; 459kHz

Sensitivity:

FM; 1.8μV/50mW output
(-3dB Limit Sens)

LW; 180μV/m/50mW output

MW; 140μV/m/50mW output

Tape Deck Section:

Frequency Response: 30~16,000Hz (with normal tape)

30~17,000Hz (with CrO₂ tape)

Tape Speed: 4.8cm/s (1-7/8 ips)

Track System: 4-track 2-channel, stereo

Recording System: AC bias

Erasing System: AC erase

Monitor System: Variable sound monitor

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic

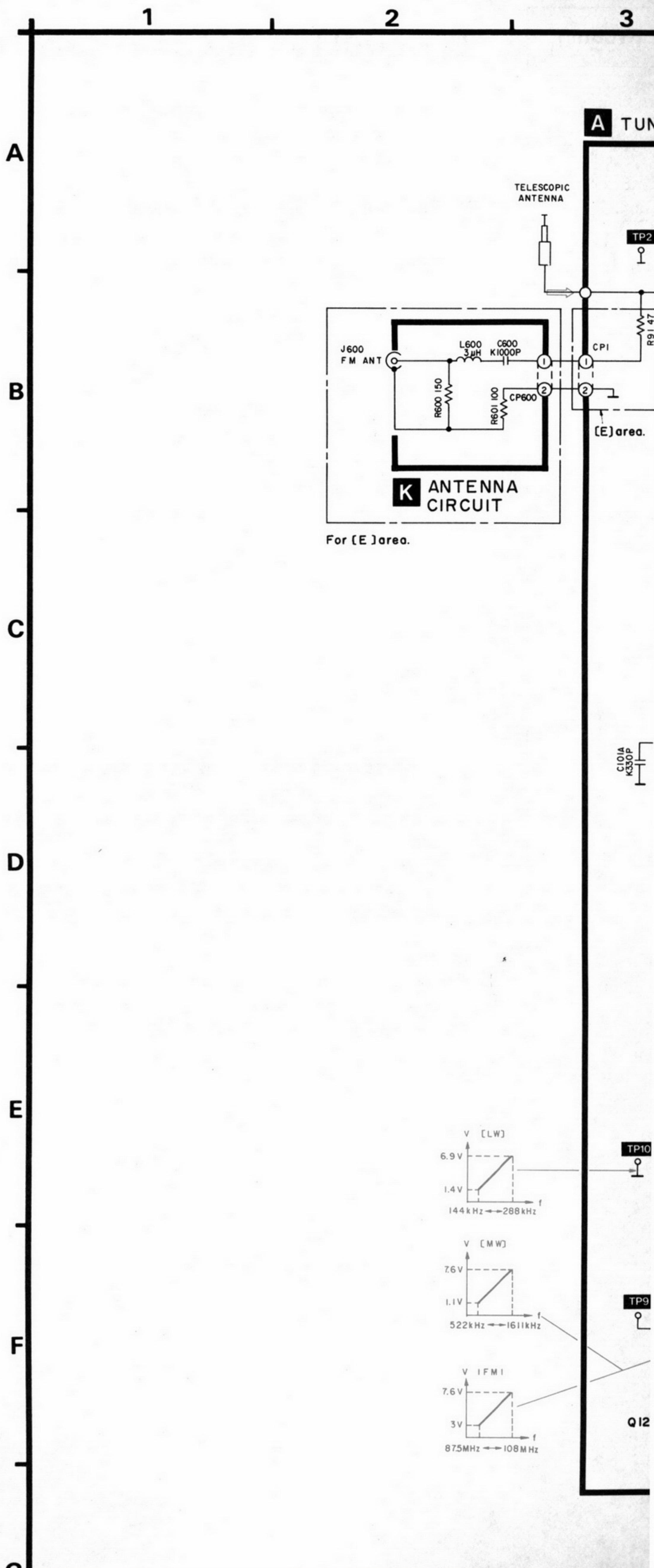
Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

SCHEMATIC DIAGRAM

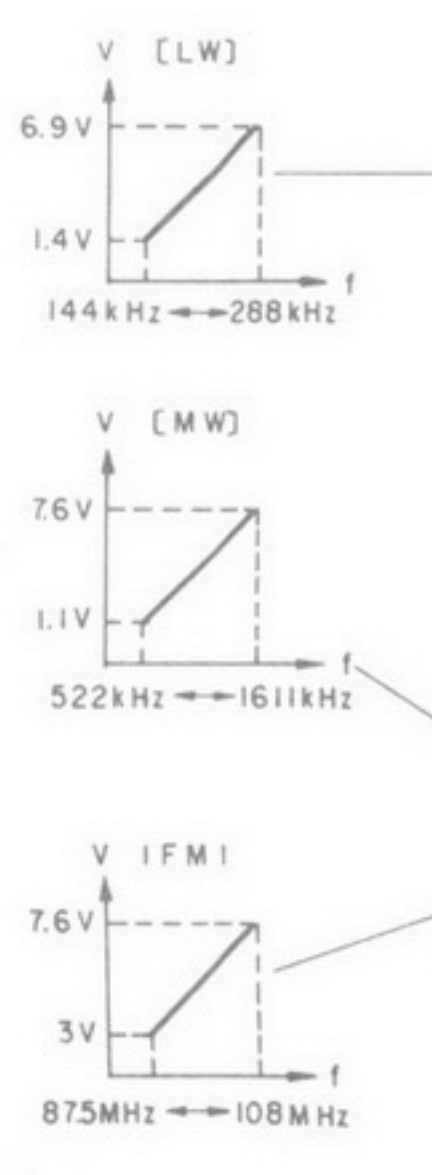
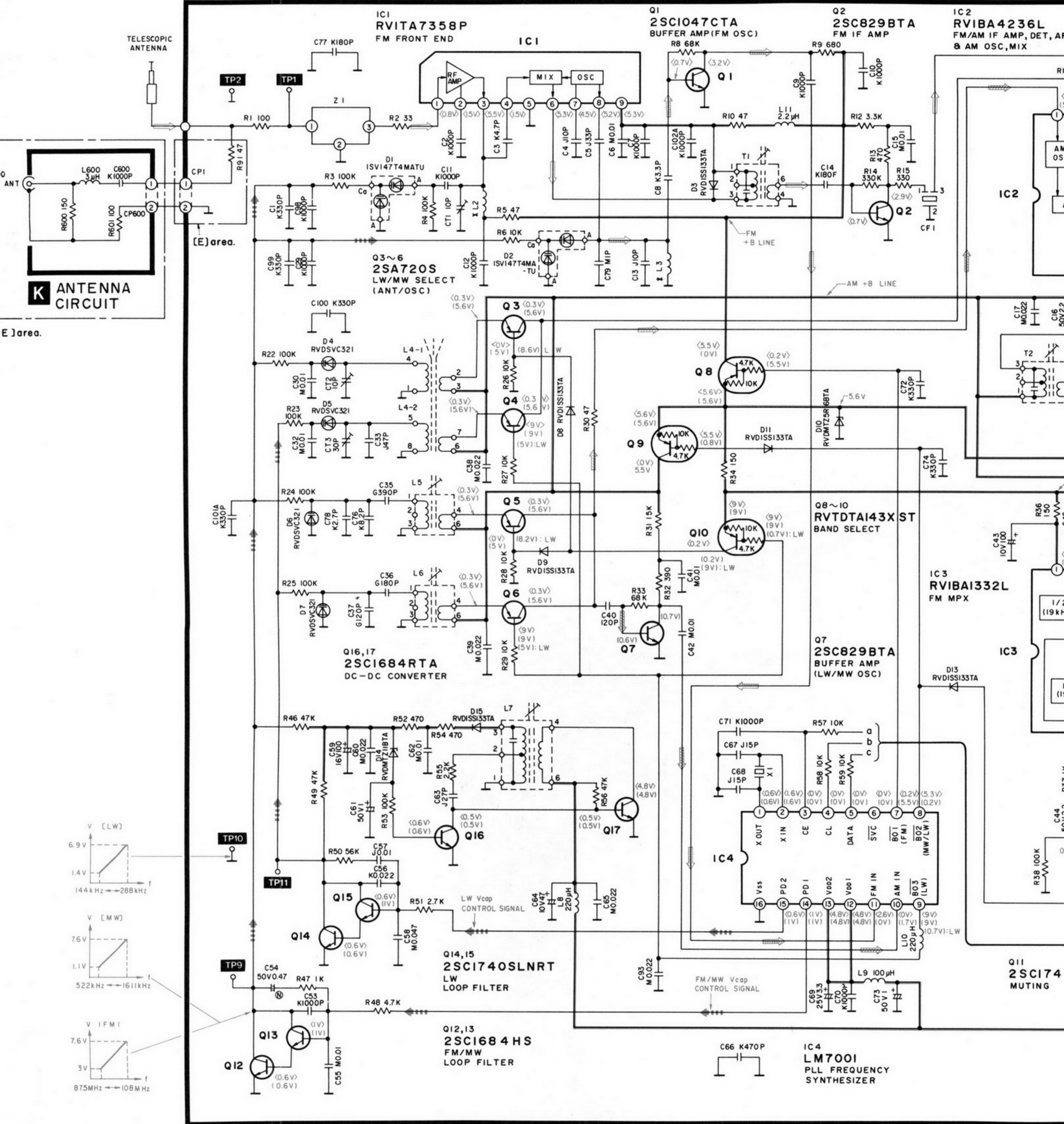
(See parts list on pages 51~53, 63~66.)

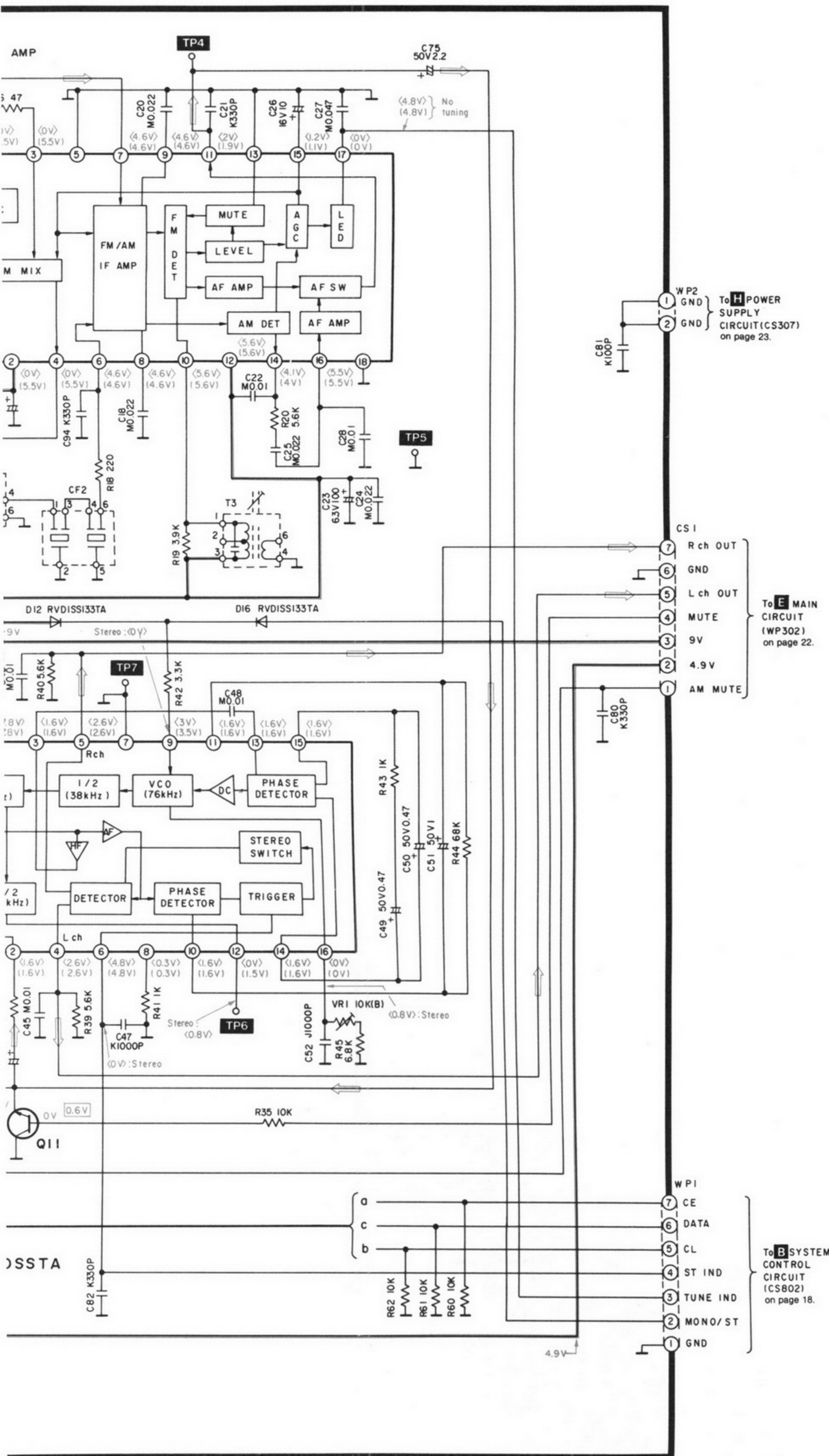
Notes:

1. VR1: FM MPX VCO adjustment VR.
 2. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
- No mark: Playback, < >: FM, (): AM,
- : Muting
 - : FM signal line
 - ▨ : FM/AM Vcap control line
 - ▧ : FM OSC signal line
 - ▩ : AM OSC signal line
 - : (+) B line
3. The mark (■) shows test point. e.g. TP1 = test point 1.
- This schematic diagram may be modified at any time with the development of new technology.



A TUNER CIRCUIT





WP2
1 GND
2 GND
To **H** POWER SUPPLY CIRCUIT (CS307) on page 23.

CS1
7 R ch OUT
6 GND
5 L ch OUT
4 MUTE
3 9V
2 4.9V
1 AM MUTE
To **E** MAIN CIRCUIT (WP302) on page 22.

WP1
7 CE
6 DATA
5 CL
4 ST IND
3 TUNE IND
2 MONO/ST
1 GND
To **B** SYSTEM CONTROL CIRCUIT (CS802) on page 18.

SCHEMATIC DIAGRAM

(See parts list on pages 56 and 57.)

Notes:

1. S701 : Rest switch.
2. VR701 : Best eye adjustment VR.
3. VR702 : Tracking balance adjustment VR.
4. VR703 : Focus offset adjustment VR.
5. VR704 : Focus gain adjustment VR.
6. VR705 : Tracking gain adjustment VR.
7. VR706 : Tracking offset adjustment VR.
8. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.

(()): CD

→ : CD SIGNAL LINE

— : (+) B LINE

9. The mark (■) shows test point. e.g. TP1 = test point 1.

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

A

B

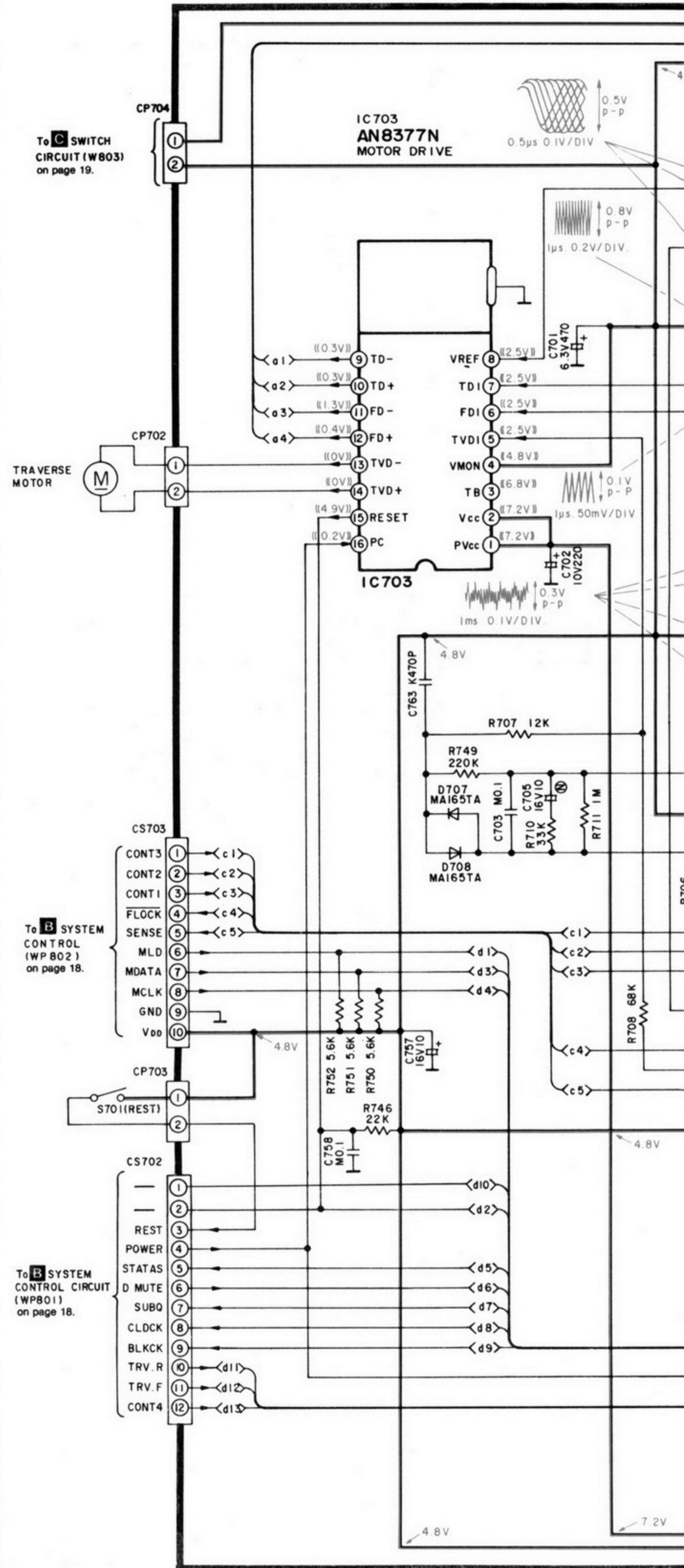
C

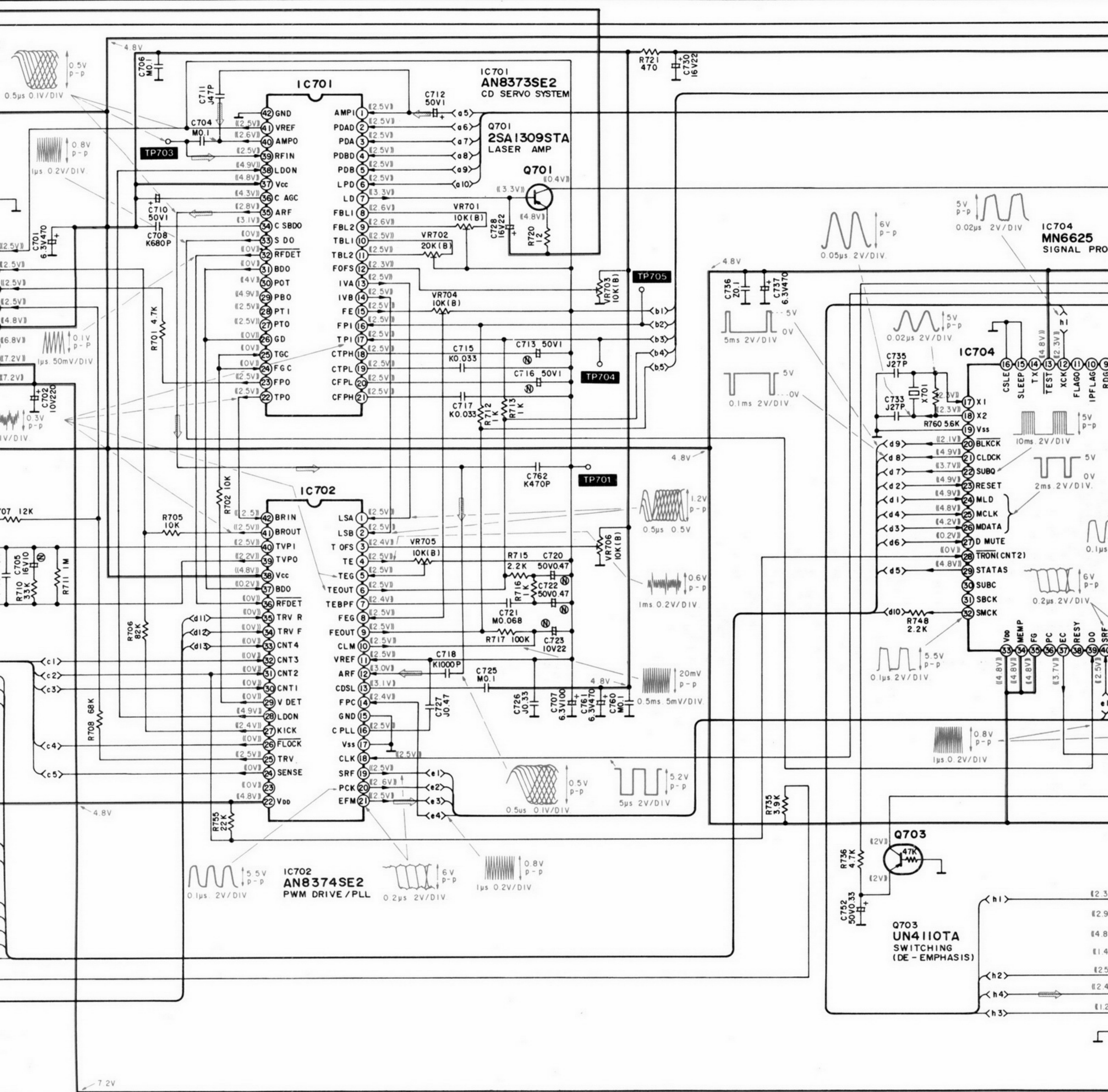
D

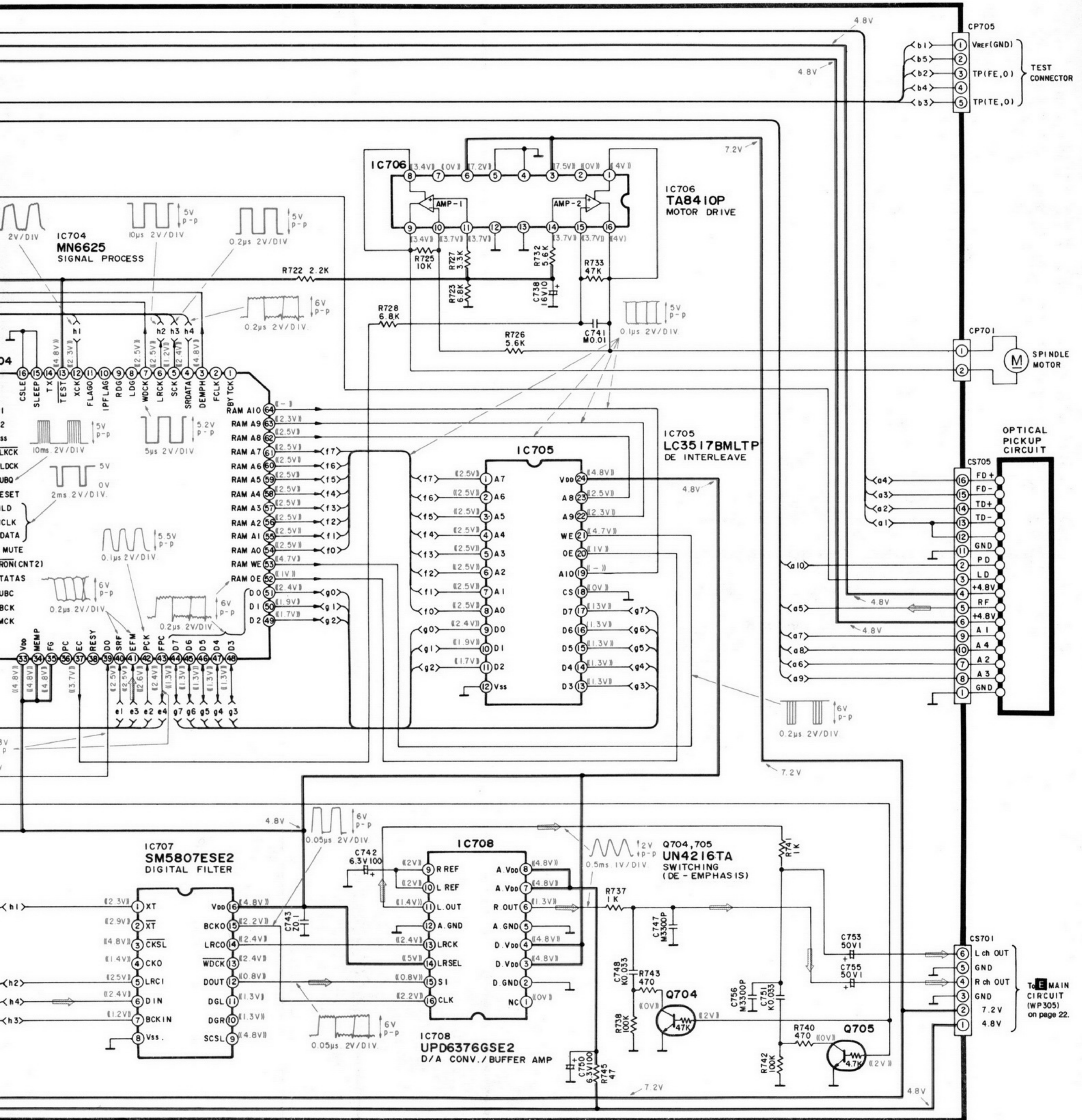
E

F

D CD CIRCUIT





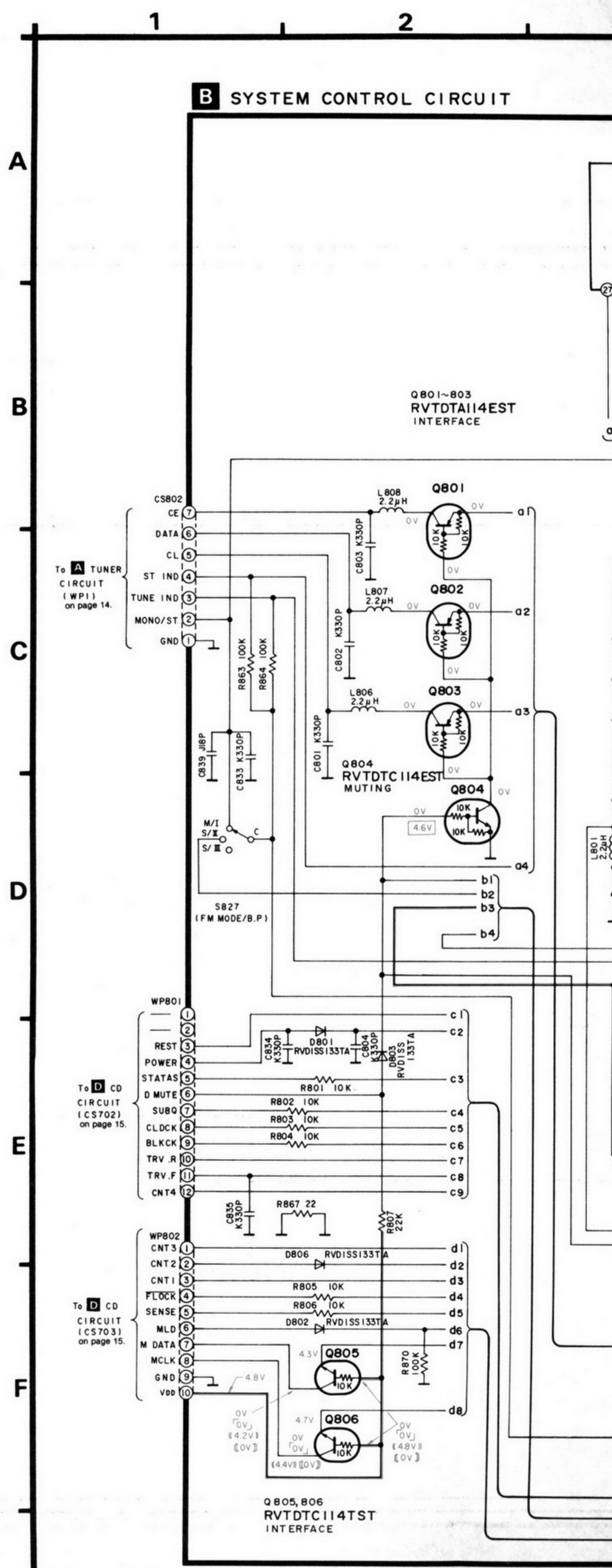


SCHEMATIC DIAGRAM

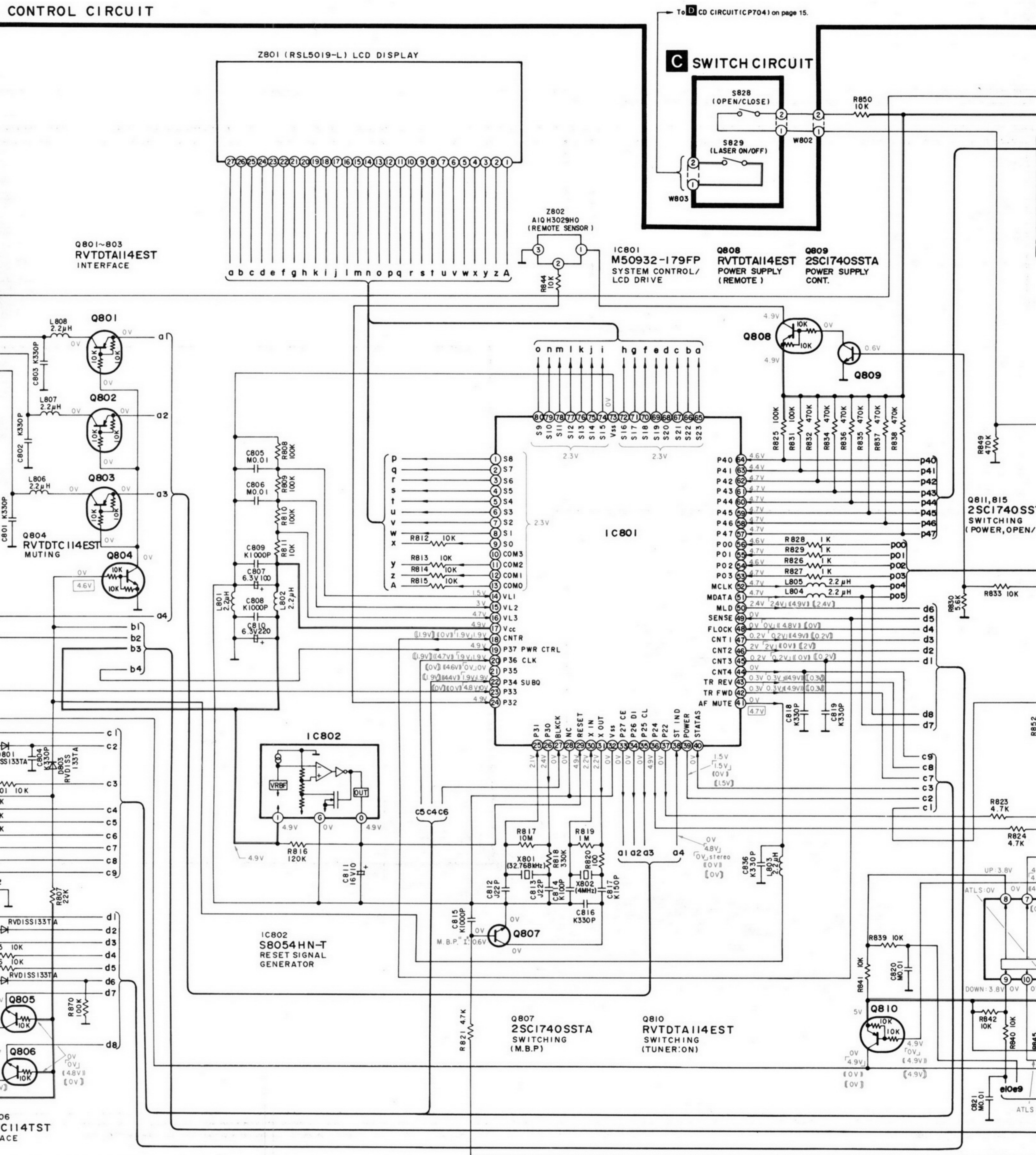
(See parts list on pages 51~53, 63~66.)

Notes:

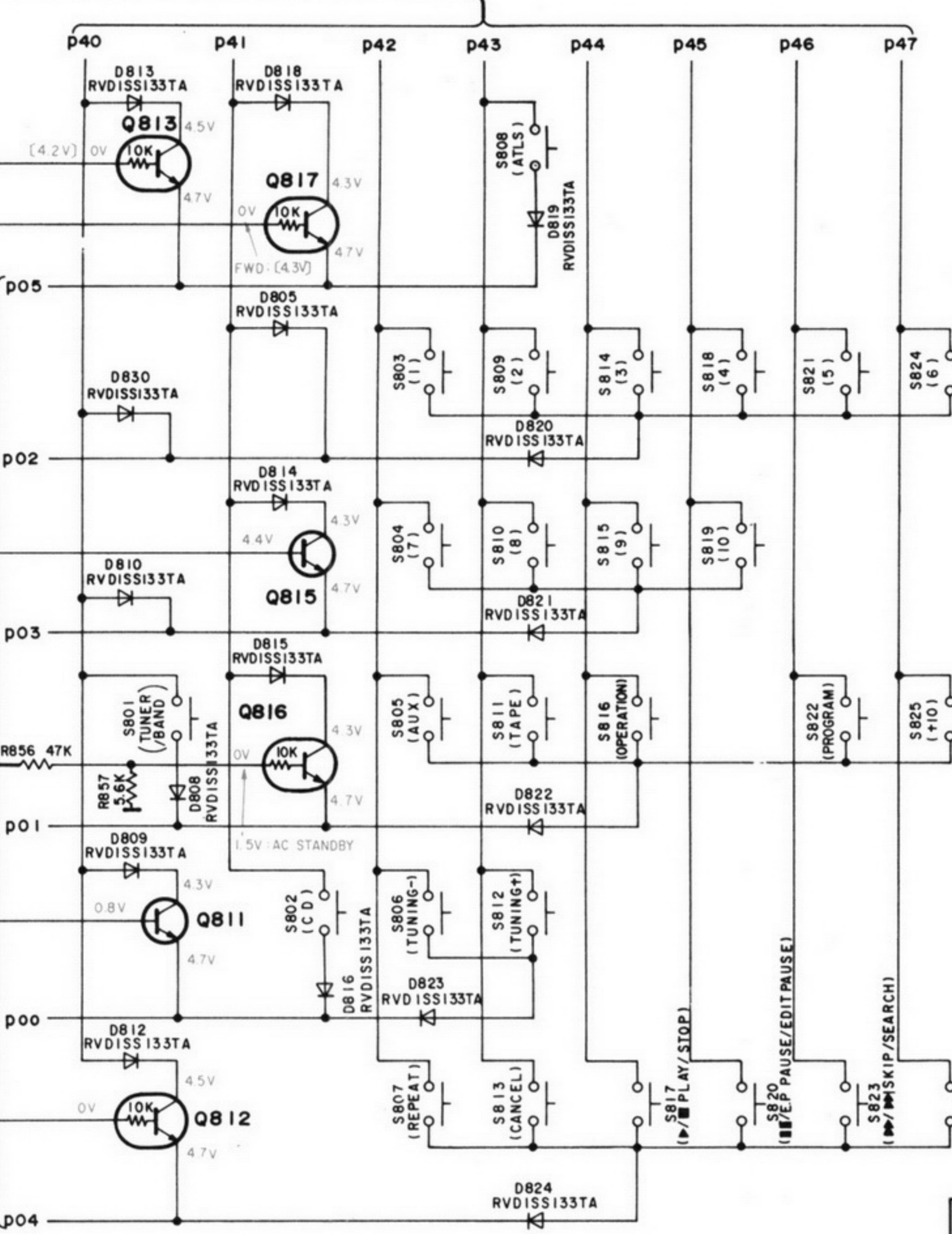
1. S801 : Tuner/Band select switch.
 2. S802 : CD select switch.
 3. S803 : Numeric switch "1".
 4. S804 : Numeric switch "7".
 5. S805 : Auxiliary input select switch.
 6. S806 : Tuning "-" switch.
 7. S807 : Repeat switch.
 8. S808 : ATLS (Auto Tape Level Settings) switch.
 9. S809 : Numeric switch "2".
 10. S810 : Numeric switch "8".
 11. S811 : Tape select switch.
 12. S812 : Tuning "+" switch.
 13. S813 : Cancel switch.
 14. S814 : Numeric switch "3".
 15. S815 : Numeric switch "9".
 16. S816 : Operation switch.
 17. S817 : Play/Stop switch.
 18. S818 : Numeric switch "4".
 19. S819 : Numeric switch "10".
 20. S820 : Pause/Edit pause switch.
 21. S821 : Numeric switch "5".
 22. S822 : Program switch.
 23. S823 : Skip/Search switch (▶▶/▶▶)
 24. S824 : Numeric switch "6".
 25. S825 : Numeric switch "+10".
 26. S826 : Skip/Search switch (◀◀/◀◀)
 27. S827 : FM mode/Beat proof select switch in "MONO/I" position.
(M/I...MONO/I, S/II...STEREO/II, S/III...STEREO/III)
 28. S828 : Open/Close switch. (CD lid close detection).
 29. S829 : Laser ON/OFF switch.
 30. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
No mark: Playback, []: Recording, □: Muting, ◻: Tuner, (()): CD, [[]]: AUX
- This schematic diagram may be modified at any time with the development of new technology.



CONTROL CIRCUIT

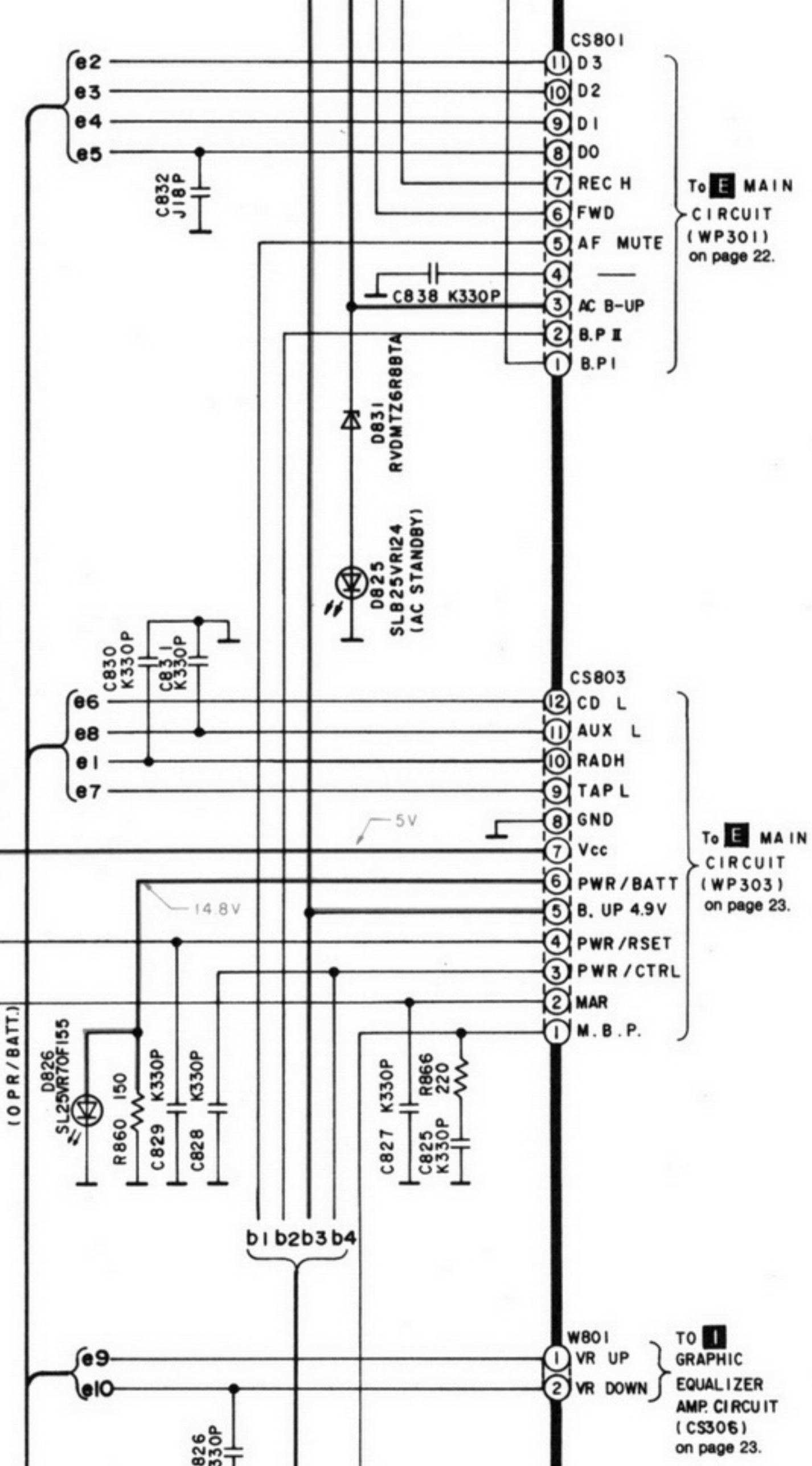
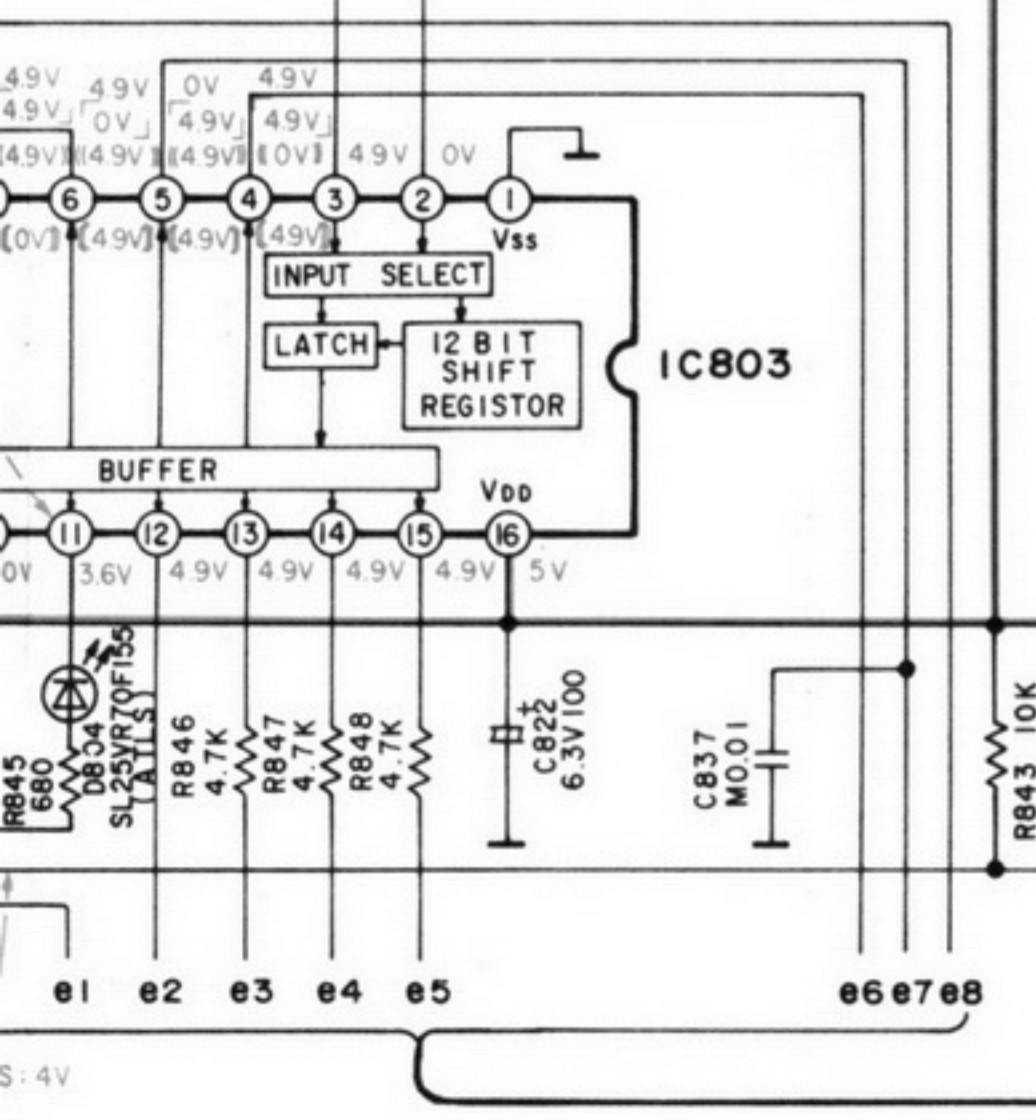


Q813,817
RVTDC114TST
SWITCHING
(REC/FWD)



Q812,816
RVTDC114TST
SWITCHING
(RESET, AC BACK-UP)

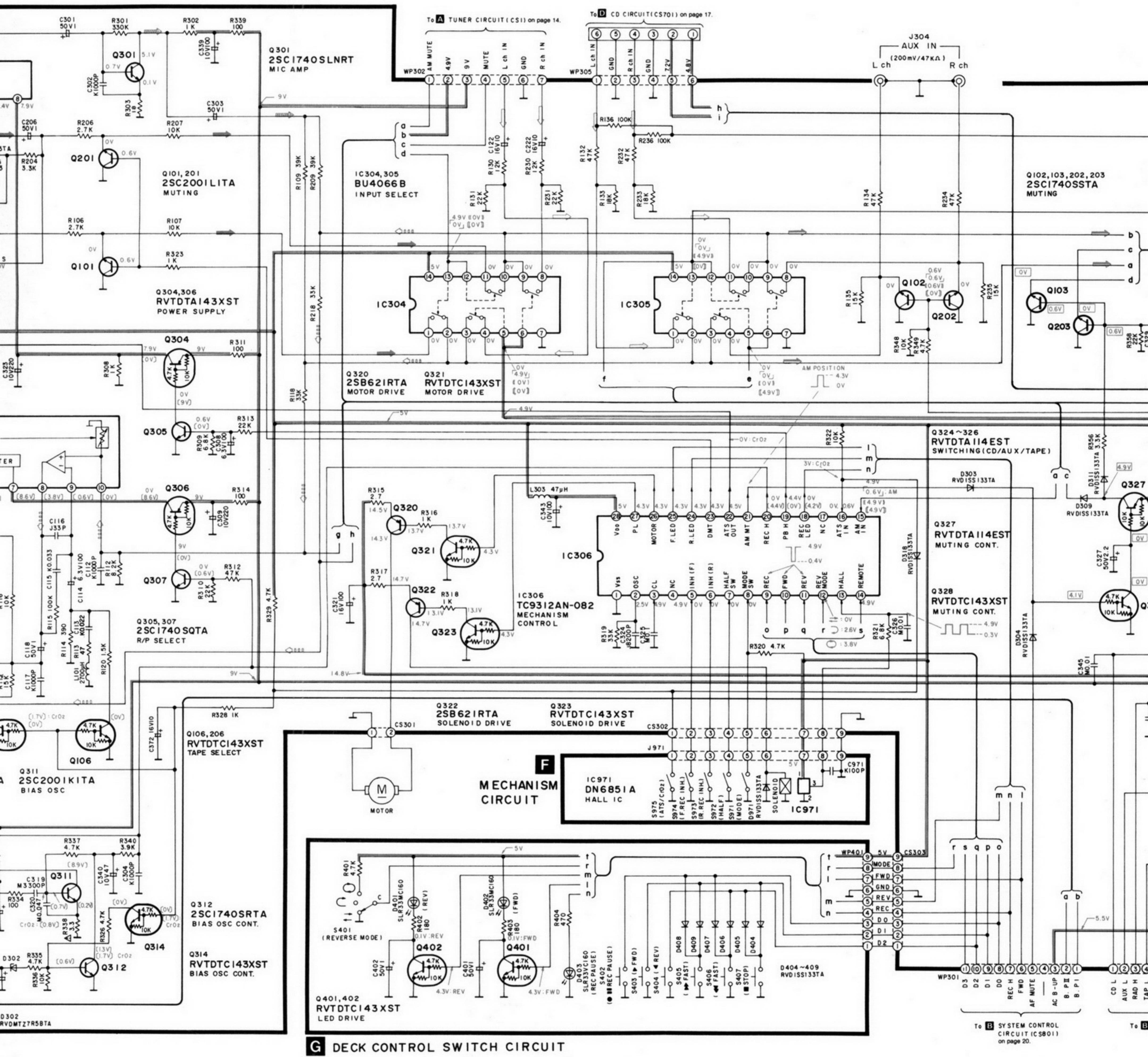
IC803
M50253P
SYSTEM CONTROL



To MAIN
CIRCUIT
(WP301)
on page 22.

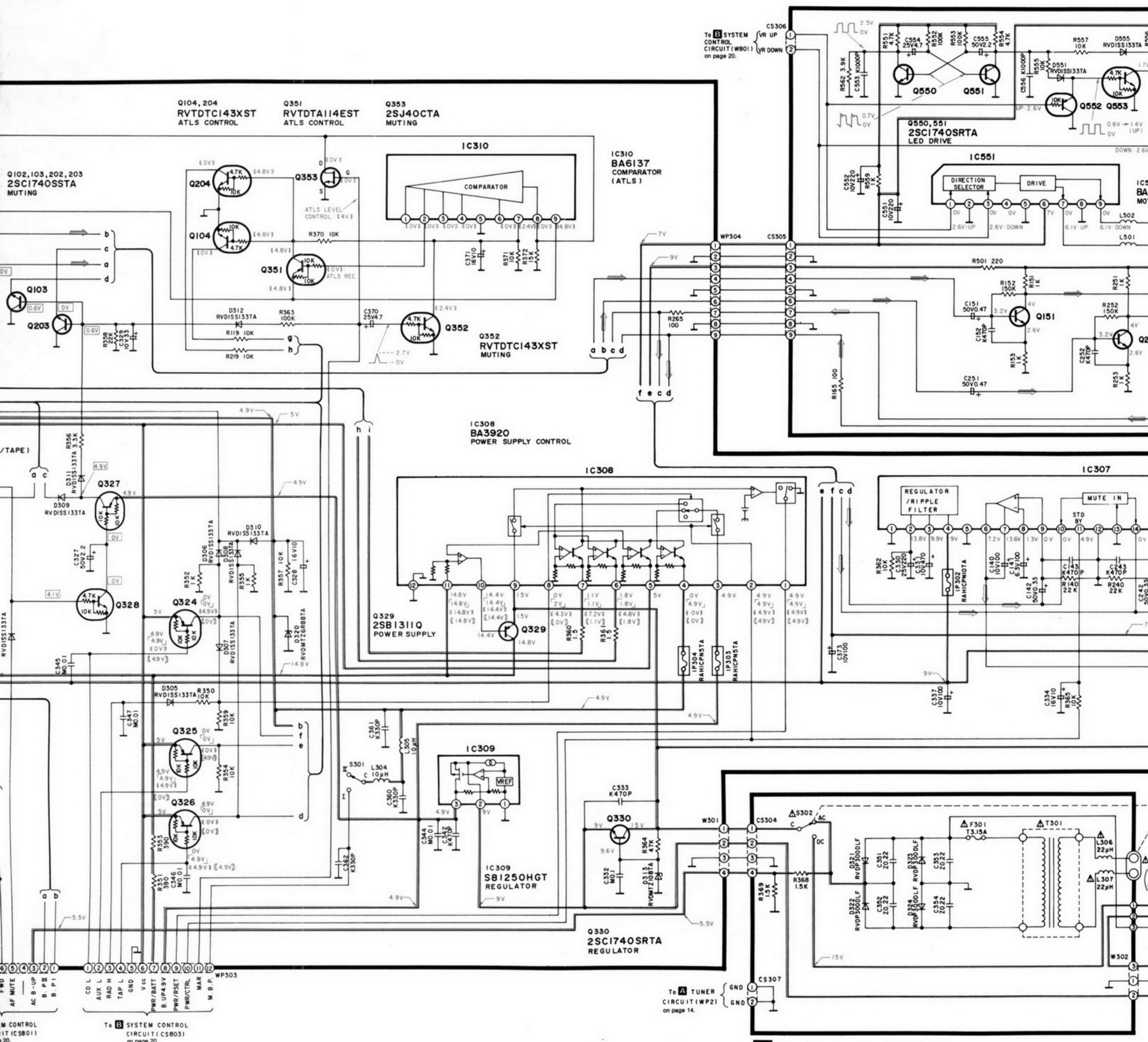
To MAIN
CIRCUIT
(WP303)
on page 23.

To GRAPHIC
EQUALIZER
AMP CIRCUIT
(CS306)
on page 23.



G DECK CONTROL SWITCH CIRCUIT

To B SYSTEM CONTROL CIRCUIT (CS801) on page 20.



H POWER SUPPLY CIRCUIT

