

Service Manual

Portable Stereo CD System

Radio Cassette

RX-DS101

COMPACT
disc
DIGITAL AUDIO

MASH*
multi-stage noise shaping



Colour

(K) Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R.Germany & Italy	
(GN)	Oceania	

Tape section: SG-20W MECHANISM SERIES

CD section: RX-DT55 Traverse deck series (S0DD110)

■ SPECIFICATIONS

General:

Power Requirement: AC; 230V~240V, 50Hz
 Battery; 15V (10 "D" size, R20/LR20 size batteries)
 Power Consumption: 45W (AC only)
 Power Output: 45W (22.5 W x 2)...PMPO
 Speaker: Woofer; 10 cm (4") x 2 (2.7Ω)
 Input: MIC; 5mV (600Ω)
 Outputs: HEADPHONES; 32Ω, Ø 3.5
 Dimensions: 610(W) x 184(H) x 266(D) mm (24" x 7 1/4" x 10 1/2")
 Weight: 5.4 kg (11 lbs. 14 oz) without batteries.

Disc Player Section:

Sampling Frequency: 44.1 kHz
 D-A Conversion: MASH (1 Bit DAC)
 Beam Source: Semiconductor laser (wavelength 780 nm)

No. of Channels: 2 channels, stereo
 Frequency Range: 20~20,000 Hz (+0/-2 dB)
 S/N Ratio: 75 dB (1 kHz)
 Wow and Flutter: Unmeasurable

Radio Section:

Frequency Range: FM; 87.5 ~ 108 MHz
 MW; 520 ~ 1610 kHz
 LW; 148.5 ~ 285kHz
 Intermediate Frequency: FM; 10.7MHz
 AM; 459 kHz
 Sensitivity: FM; 12 dB/50mW output (-3 dB Limit Sens.)
 MW; 52 dB/m/50mW output
 LW; 54 dB/m/50mW output

Tape Deck Section:

Frequency Range: 40~14,000 Hz (with normal tape)
 Recording System: AC bias, AC erase
 Tape Speed: 4.8cm/s (1 7/8 ips)
 Monitor System: Variable sound monitor
 Track System: 4-track 2-channel stereo recording and playback.

***MASH**

- MASH (Multi-Stage Noise Shaping) is an effective oversampling D/A conversion technique which realizes a high S/N ratio and needs no highly complex manufacturing processes such as a laser trimming.
- MASH is a trademark of NTT (Nippon Telegraph and Telephone Corporation).

Notes:

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

Panasonic

SCHEMATIC DIAGRAM • CD CIRCUIT

→ : CD Signal Line

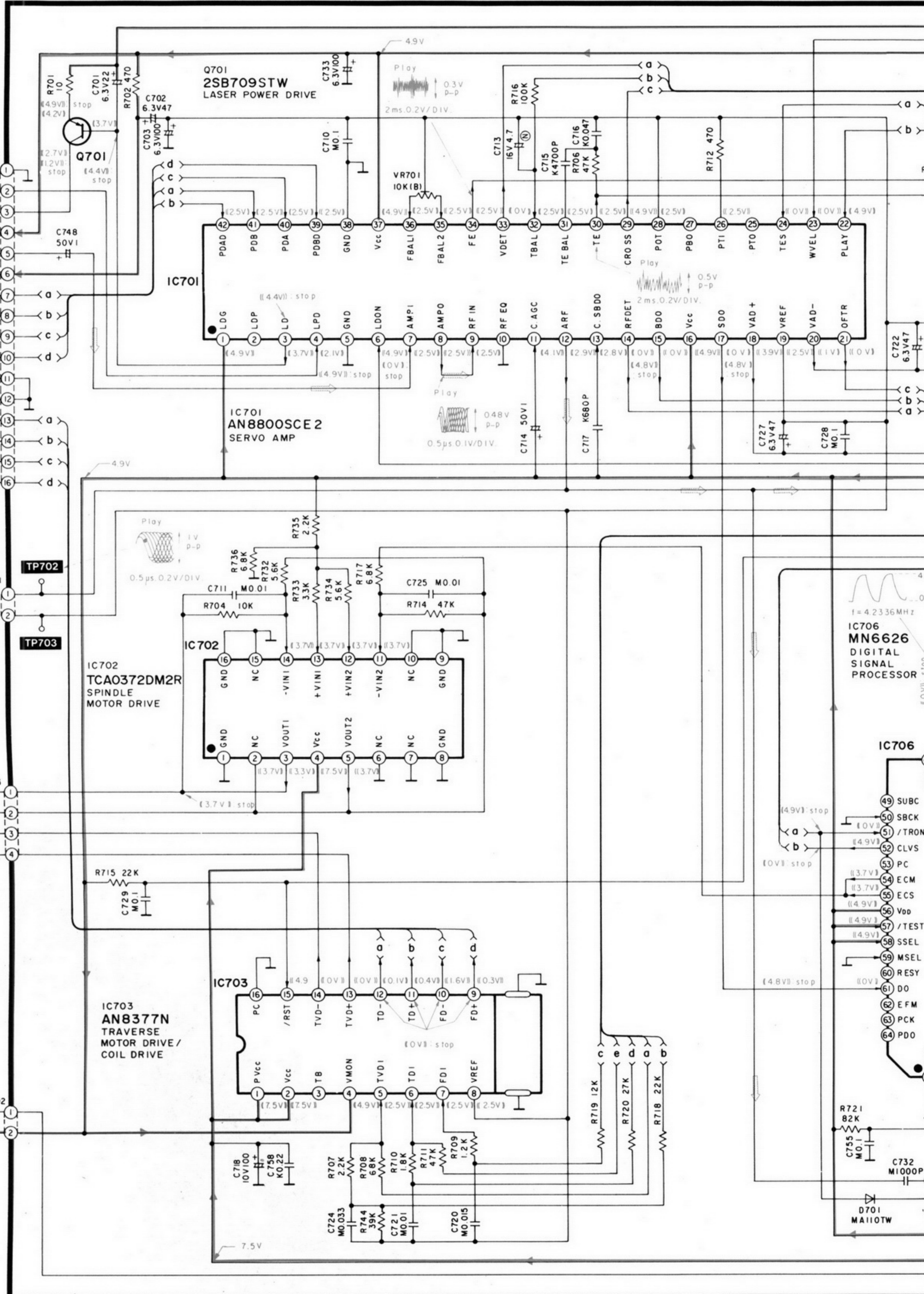
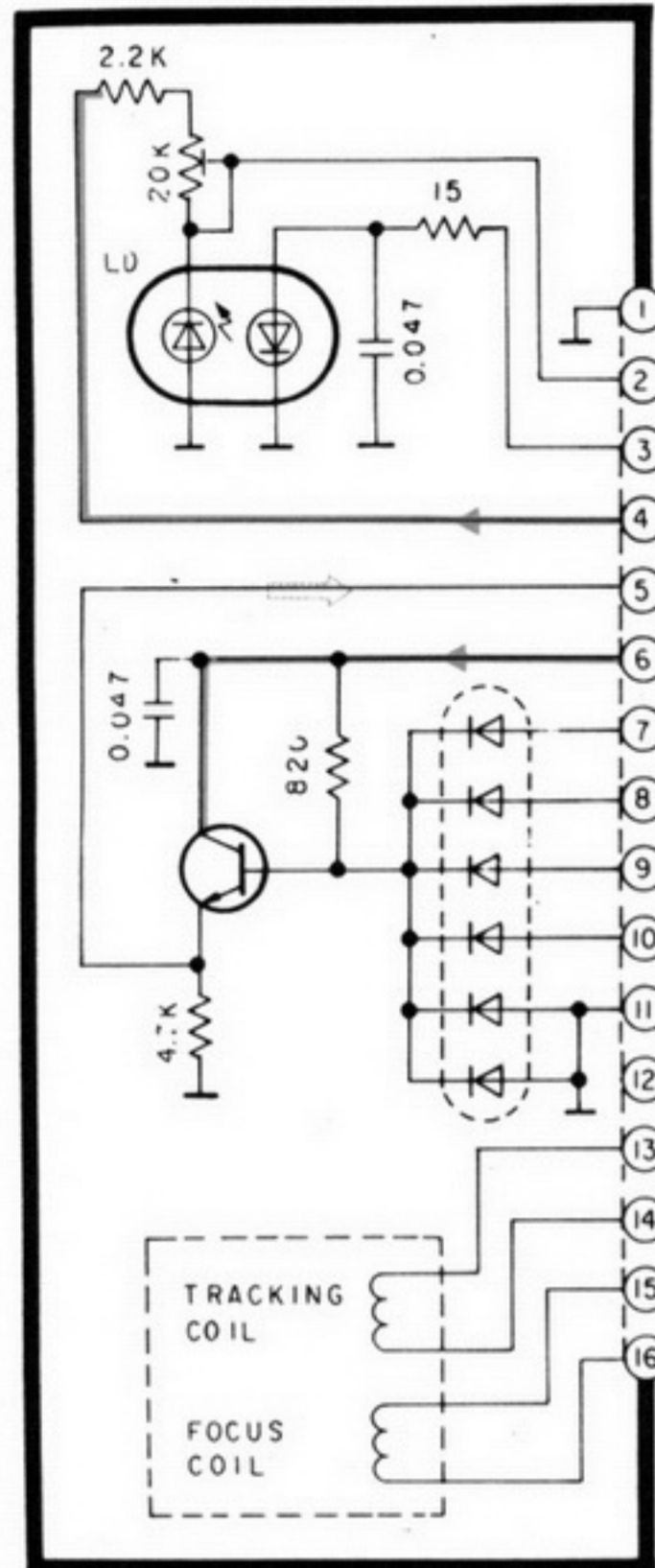
→ : +B

CD CIRCUIT

1 2 3 4 5

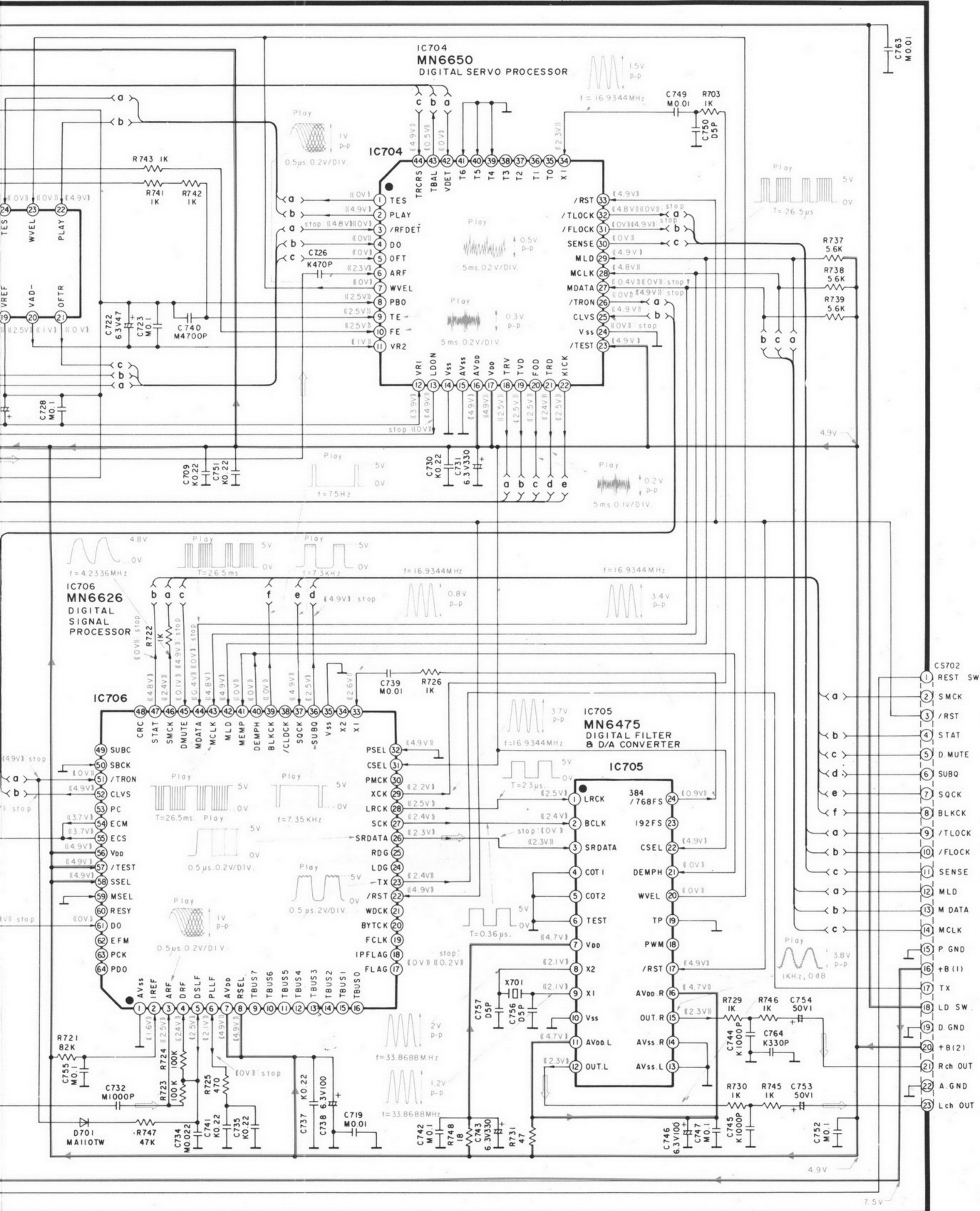
A B C D E F

OPTICAL PICKUP CIRCUIT



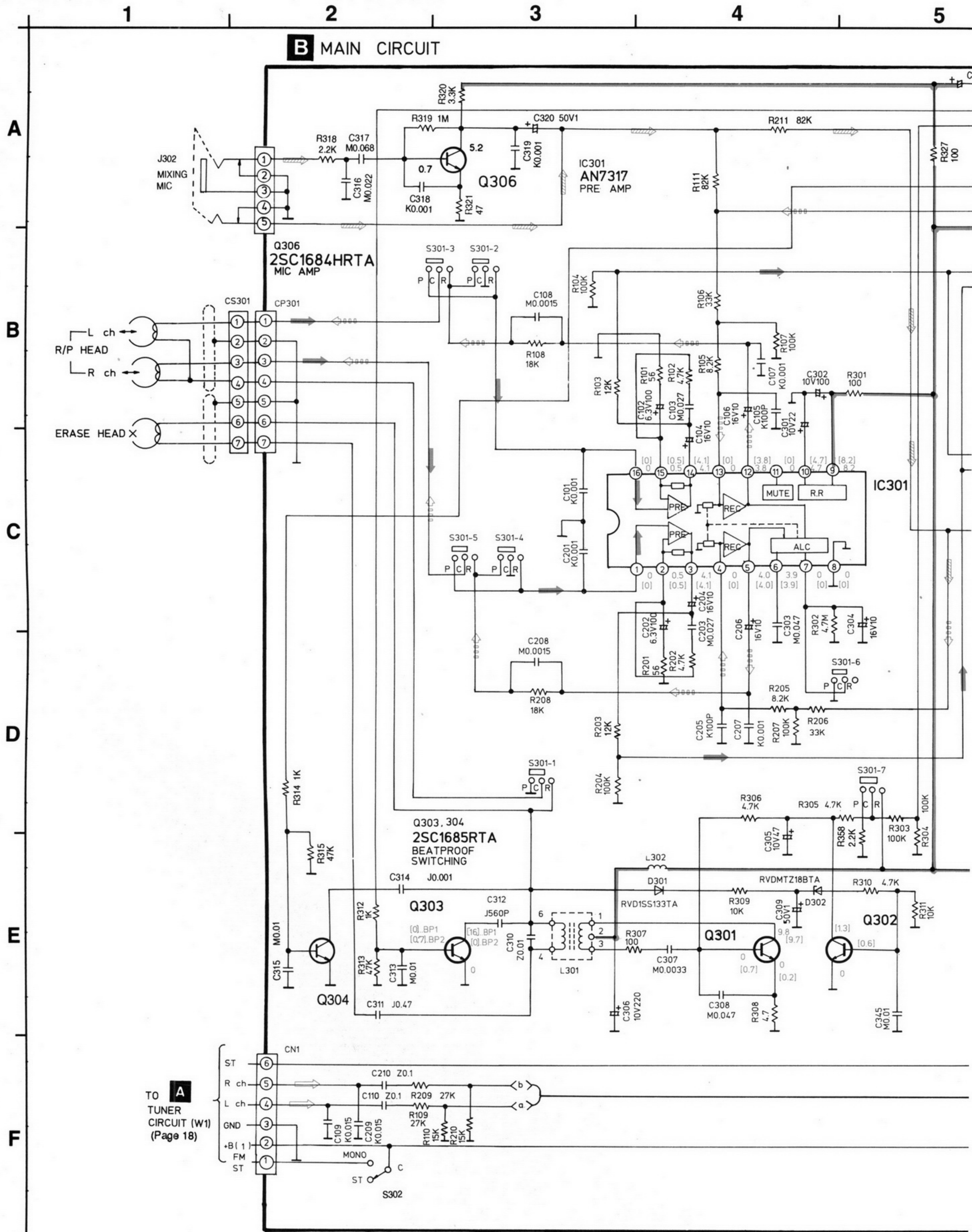
→ : +B Line

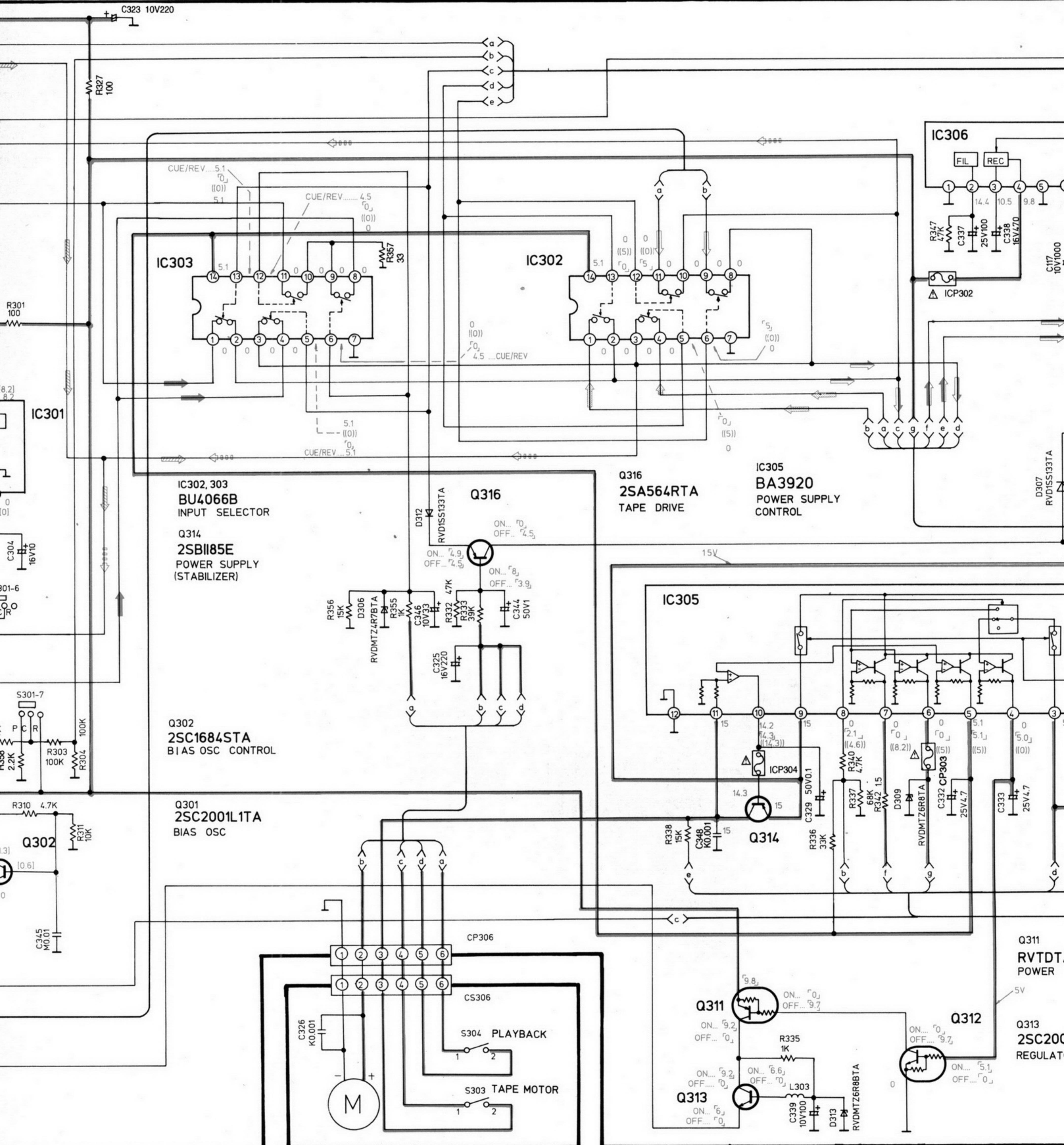
5 6 7 8 9

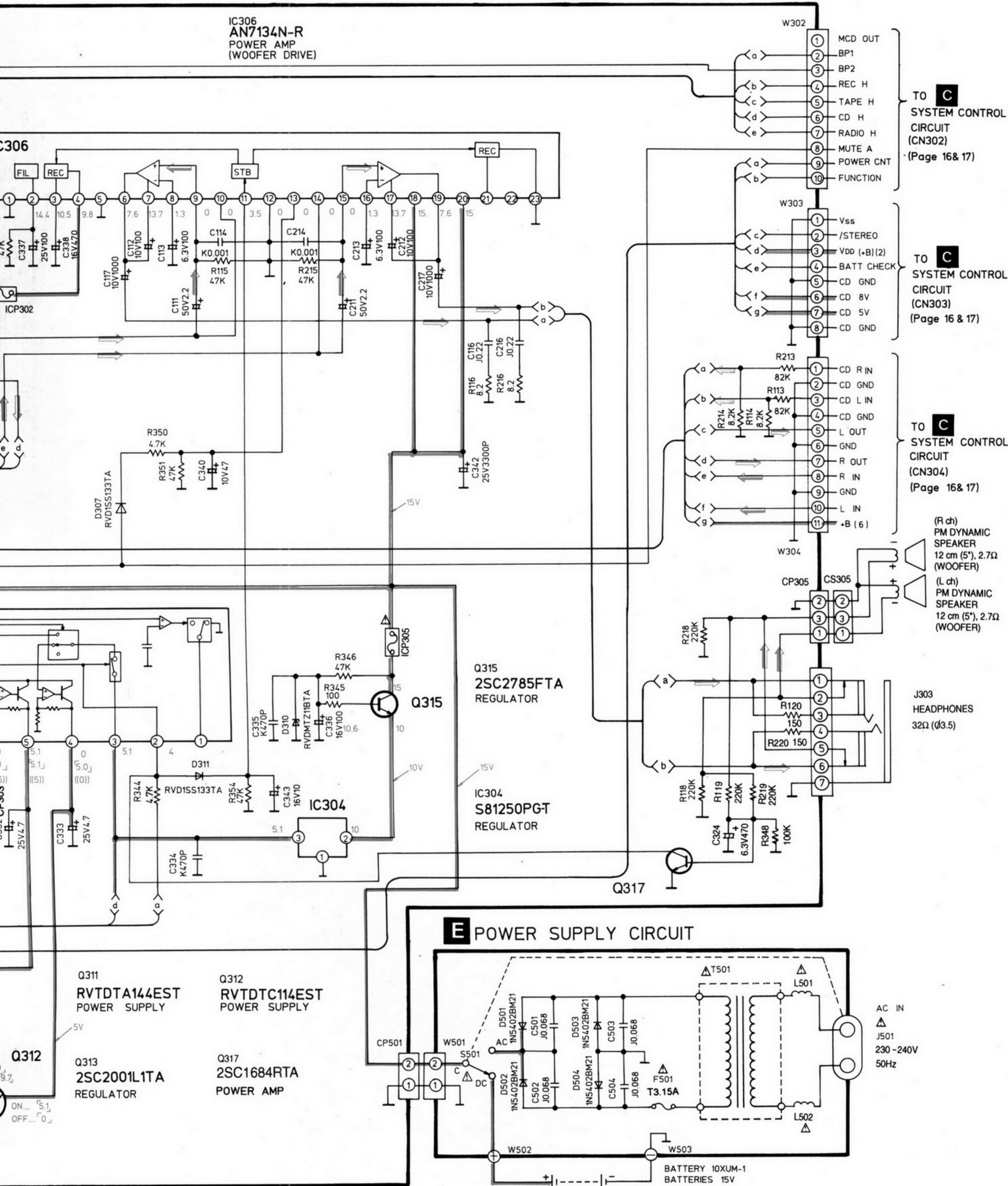


To SYSTEM CONTROL CIRCUIT (CS702) (Page 16)

SCHEMATIC DIAGRAM • MAIN CIRCUIT , POWER SUPPLY CIRCUIT







TO **C**
SYSTEM CONTROL
CIRCUIT
(CN302)
(Page 16 & 17)

TO **C**
SYSTEM CONTROL
CIRCUIT
(CN303)
(Page 16 & 17)

TO **C**
SYSTEM CONTROL
CIRCUIT
(CN304)
(Page 16 & 17)

(R ch)
PM DYNAMIC
SPEAKER
12 cm (5"), 2.7Ω
(WOOFER)

(L ch)
PM DYNAMIC
SPEAKER
12 cm (5"), 2.7Ω
(WOOFER)

J303
HEADPHONES
32Ω (Ø3.5)

AC IN
J501
230-240V
50Hz

SCHEMATIC DIAGRAM • SYSTEM CONTROL CIRCUIT, TUNER CIRCUIT

1

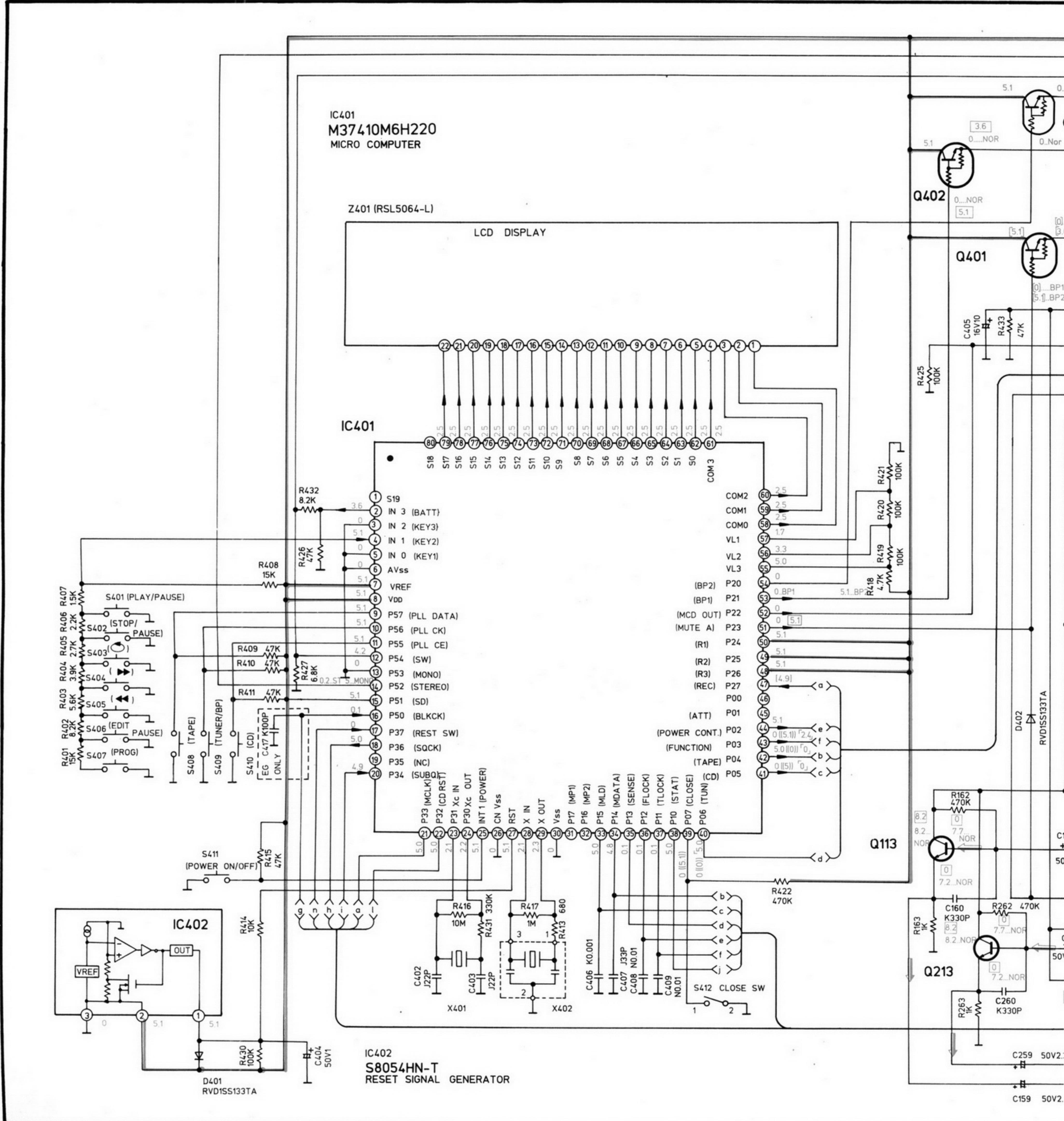
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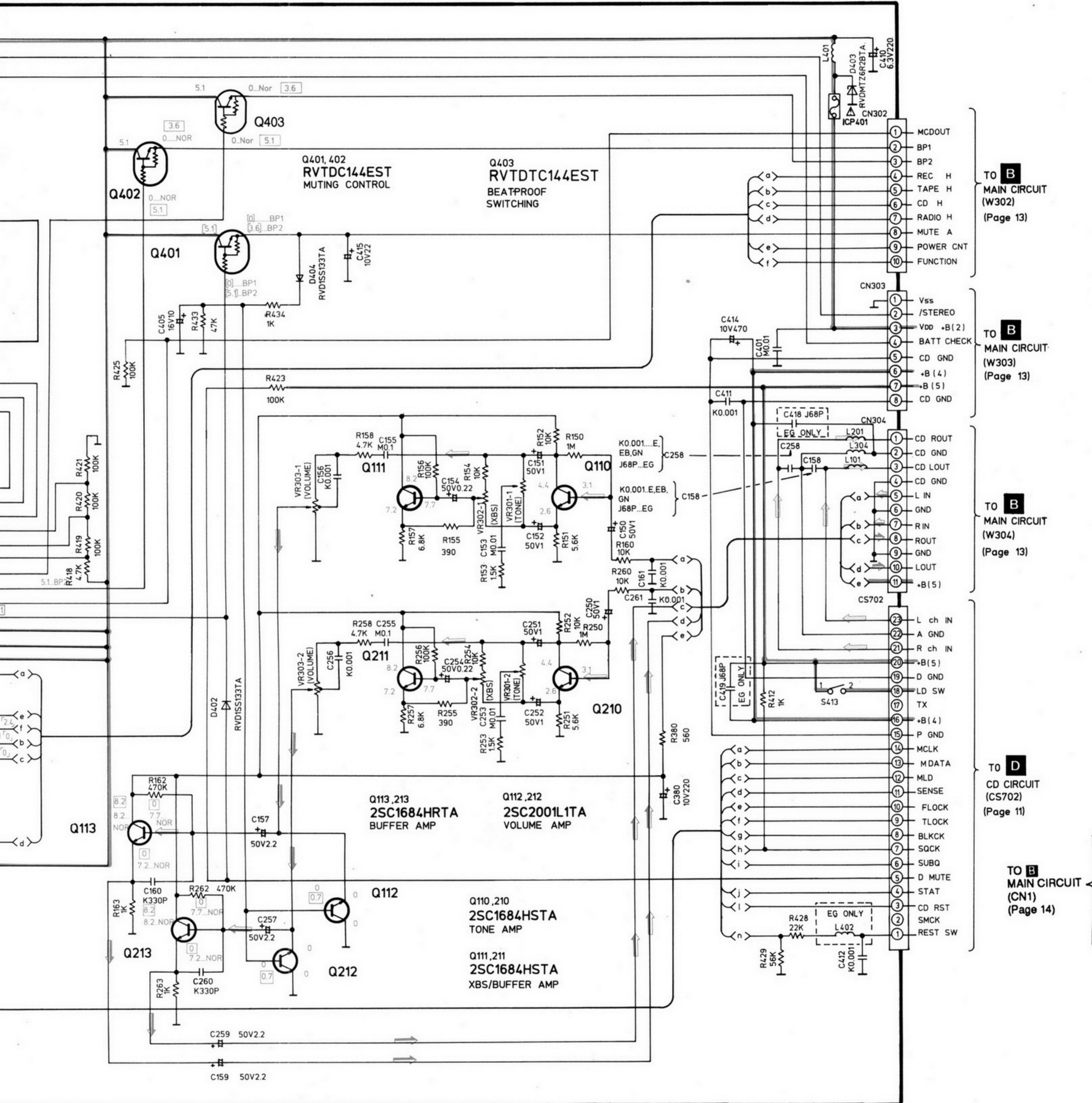
3

4

5

C SYSTEM CONTROL CIRCUIT





TO B
MAIN CIRCUIT
(W302)
(Page 13)

TO B
MAIN CIRCUIT
(W303)
(Page 13)

TO B
MAIN CIRCUIT
(W304)
(Page 13)

TO D
CD CIRCUIT
(CS702)
(Page 11)

TO B
MAIN CIRCUIT
(CN1)
(Page 14)

A TUNER P.C.B

