

Service Manual

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ORDER NO. MD0207195C3

Service Manual

CD Stereo System



1 SA-VK700GC

Colour

(K)... Black Type

TAPE SECTION :

AR2 MECHANISM SERIES



Specifications

AMPLIFIER SECTION

PMPO	4800 W
RMS power output	
THD 10% both channel driven	
Front 1 kHz (High channel)	90 W per channel (6Ω)
Front 80 Hz (Low channel)	85 W per channel (6Ω)
Surround 1 kHz	40 W per channel (8Ω)
Total Bi-Amp power	215 W per channel
Input sensitivity	
AUX	250 mV
MIC	0.7 mV
Input Impedance	
AUX	13.3 kΩ
MIC	680Ω

FM TUNER SECTION

Frequency range	87.50 - 108.00 MHz (50 kHz steps)
Sensitivity	2.5μV (IHF)
S/N 26 dB	2.2μV
Antenna terminal(s)	75Ω (unbalanced)

AM TUNER SECTION

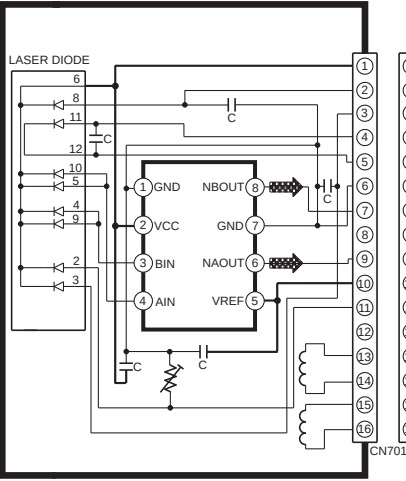
Frequency range	522 - 1629 kHz (9 kHz steps) 520 - 1630 MHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 999 kHz)	560μV/m

CASSETTE DECK SECTION

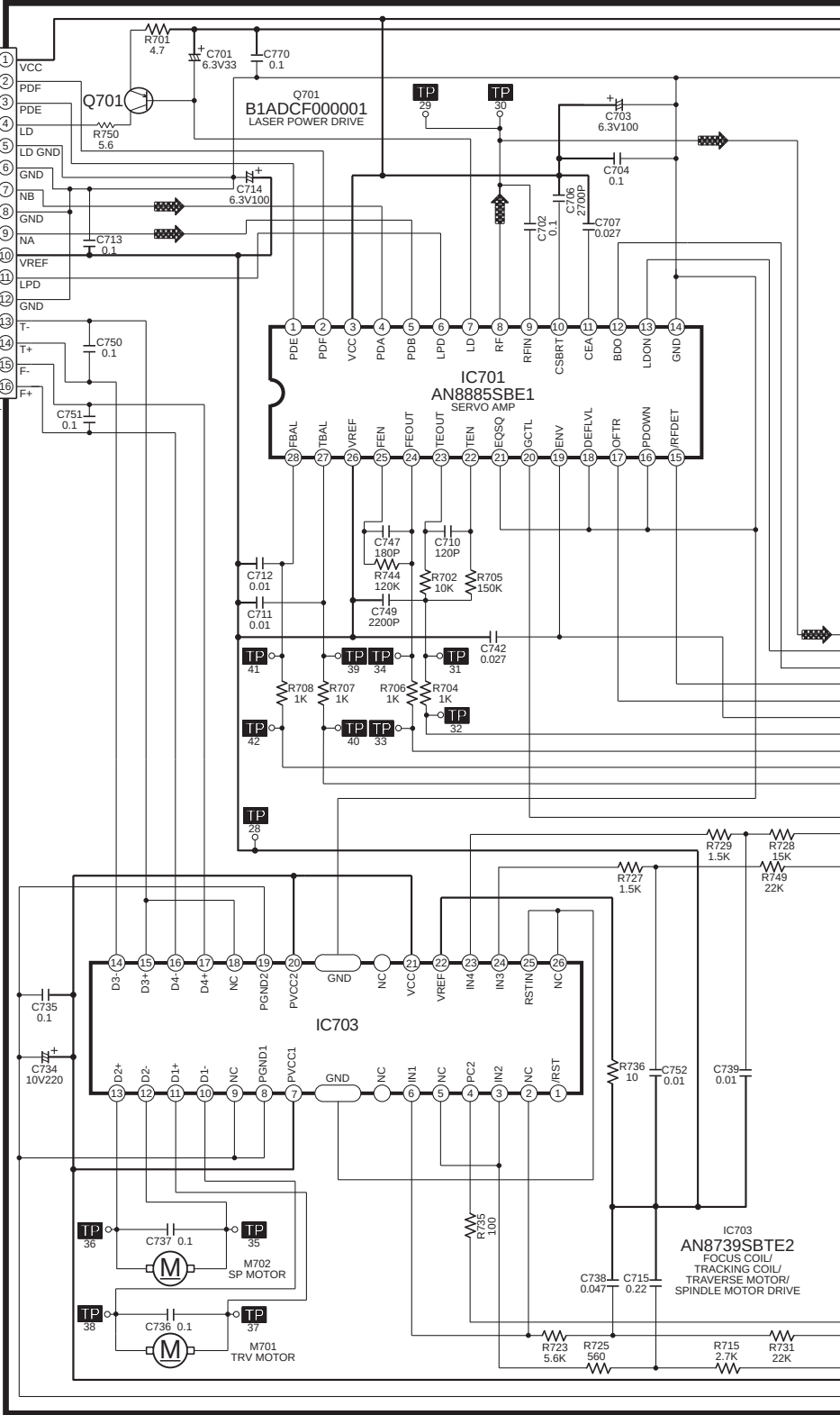
Track system	4 track, 2 channel
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SCHEMATIC DIAGRAM -1

OPTICAL PICKUP CIRCUIT



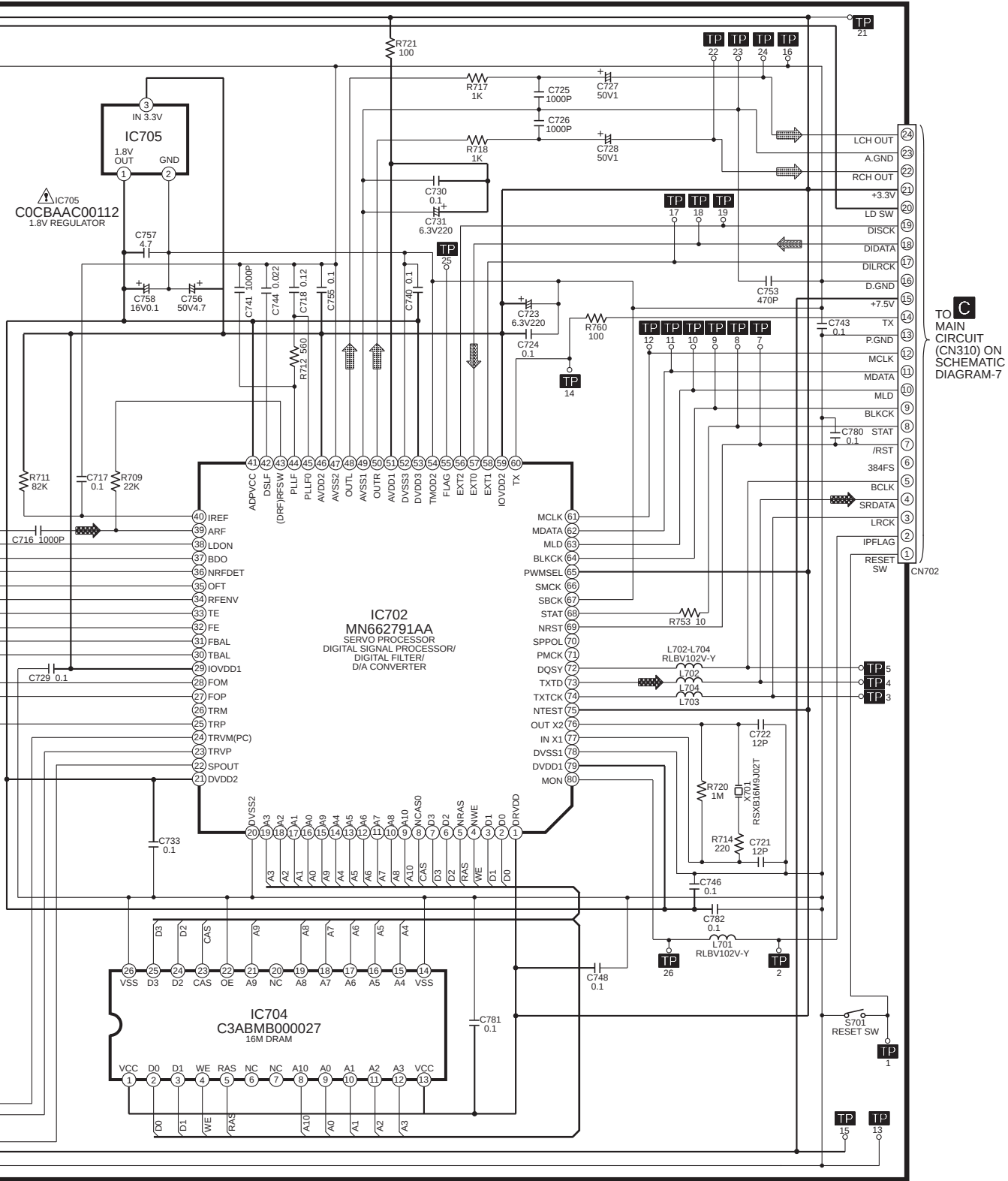
CD SERVO CIRCUIT



SCHEMATIC DIAGRAM - 2

A CD SERVO CIRCUIT

— : +B SIGNAL LINE  : CD-DA SIGNAL LINE  : CD SIGNAL LINE  : VCD AUDIO SIGNAL LINE

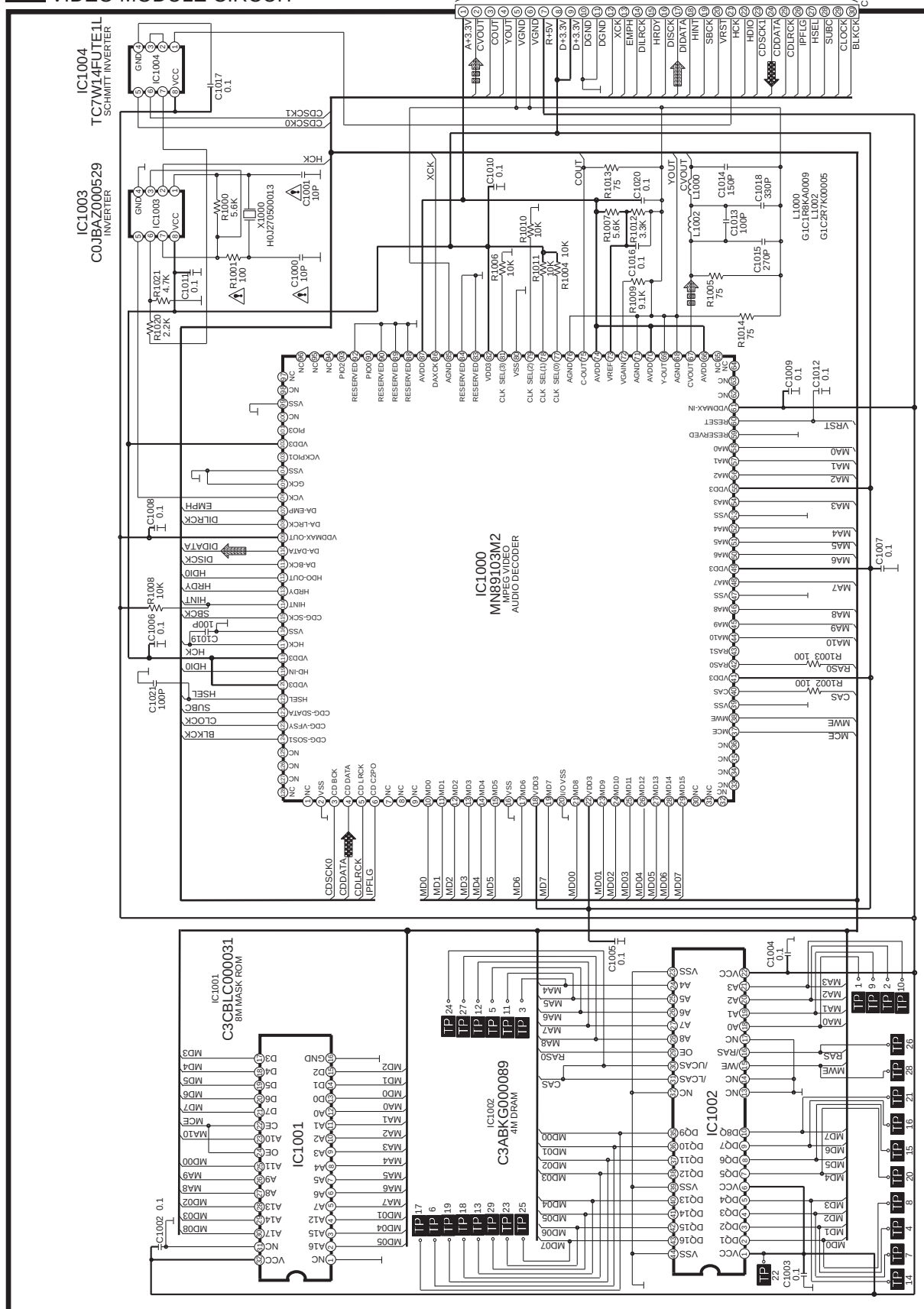


C TO MAIN CIRCUIT (CN310) ON SCHEMATIC DIAGRAM-7

B : CD-DA SIGNAL LINE
VIDEO MODULE CIRCUIT

C TO MAIN CIRCUIT

C TO MAIN CIRCUIT



SCHEMATIC DIAGRAM - 4

C TUNER/MAIN CIRCUIT

— : +B SIGNAL LINE

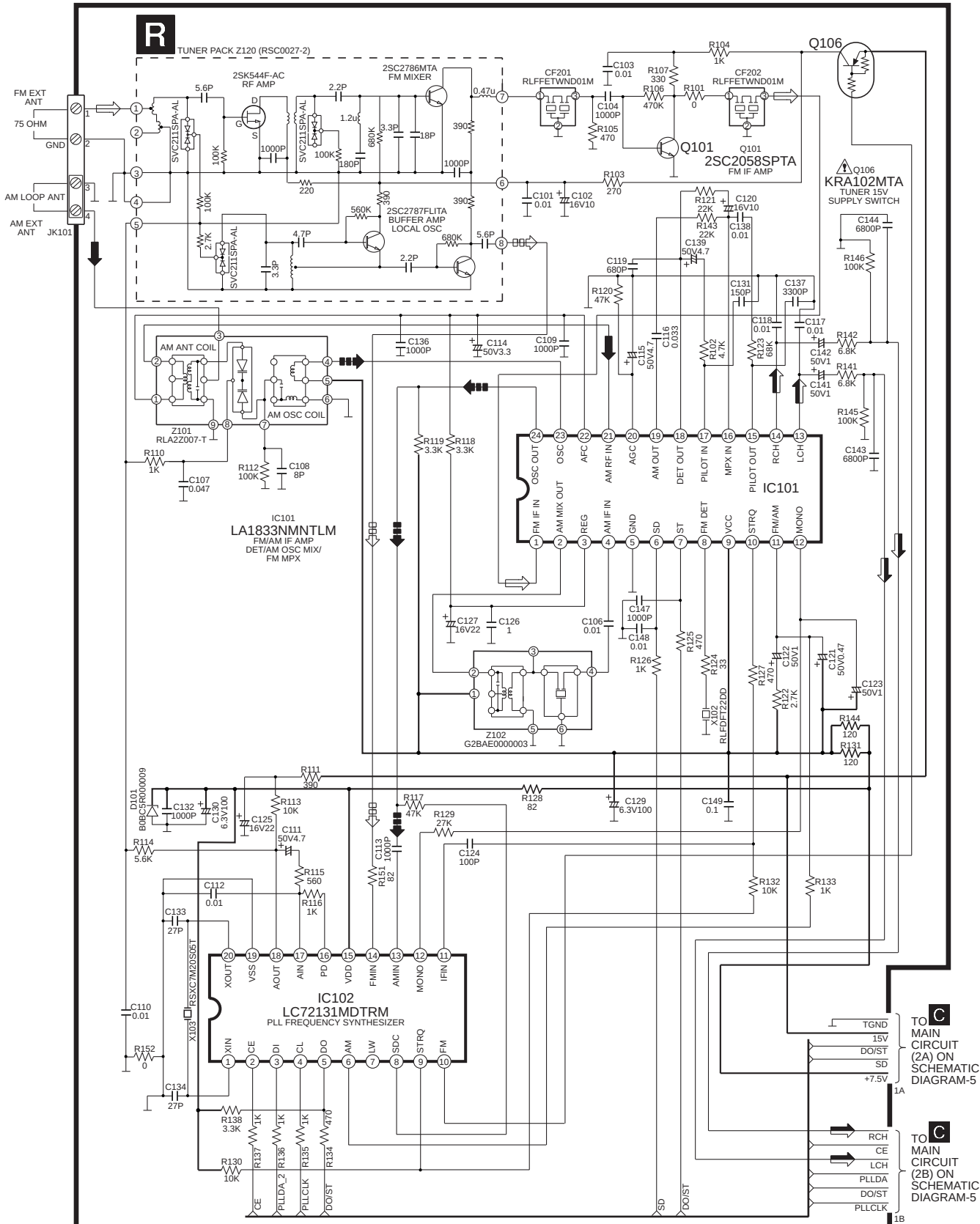
⇨ : FM SIGNAL LINE

➡ : AM SIGNAL LINE

⇨ : FM/AM SIGNAL LINE

⇨ : FM OSC SIGNAL LINE

➡ : AM OSC SIGNAL LINE



TO C MAIN CIRCUIT (2A) ON SCHEMATIC DIAGRAM-5

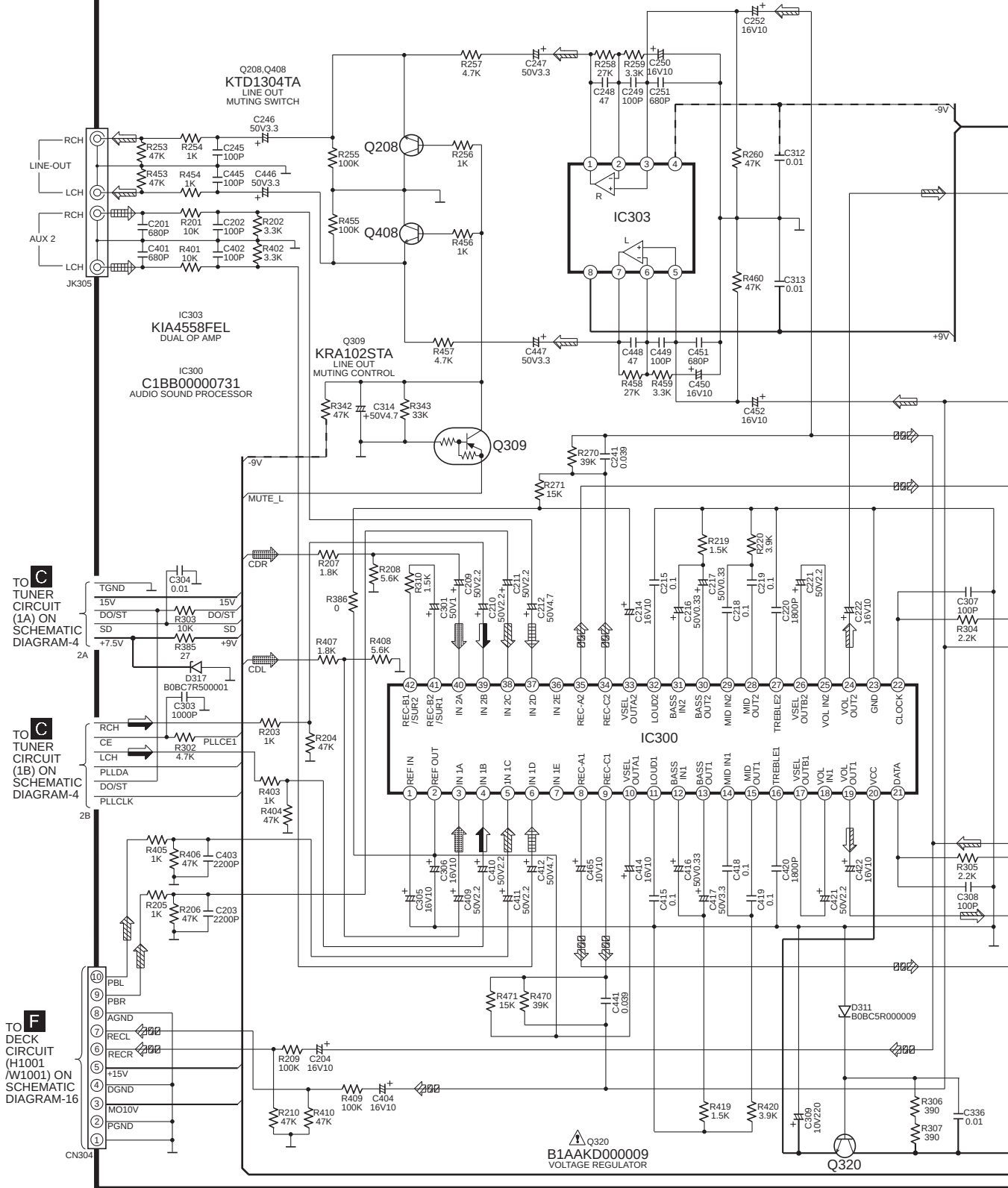
TO C MAIN CIRCUIT (2B) ON SCHEMATIC DIAGRAM-5

SCHEMATIC DIAGRAM - 5

C

MAIN CIRCUIT

— : +B SIGNAL LINE  : CD SIGNAL LINE  : AUX SIGNAL LINE  : RECORD SIGNAL LINE
 - - : -B SIGNAL LINE  : FM/AM SIGNAL LINE  : MAIN SIGNAL LINE  : PLAYBACK SIGNAL LINE

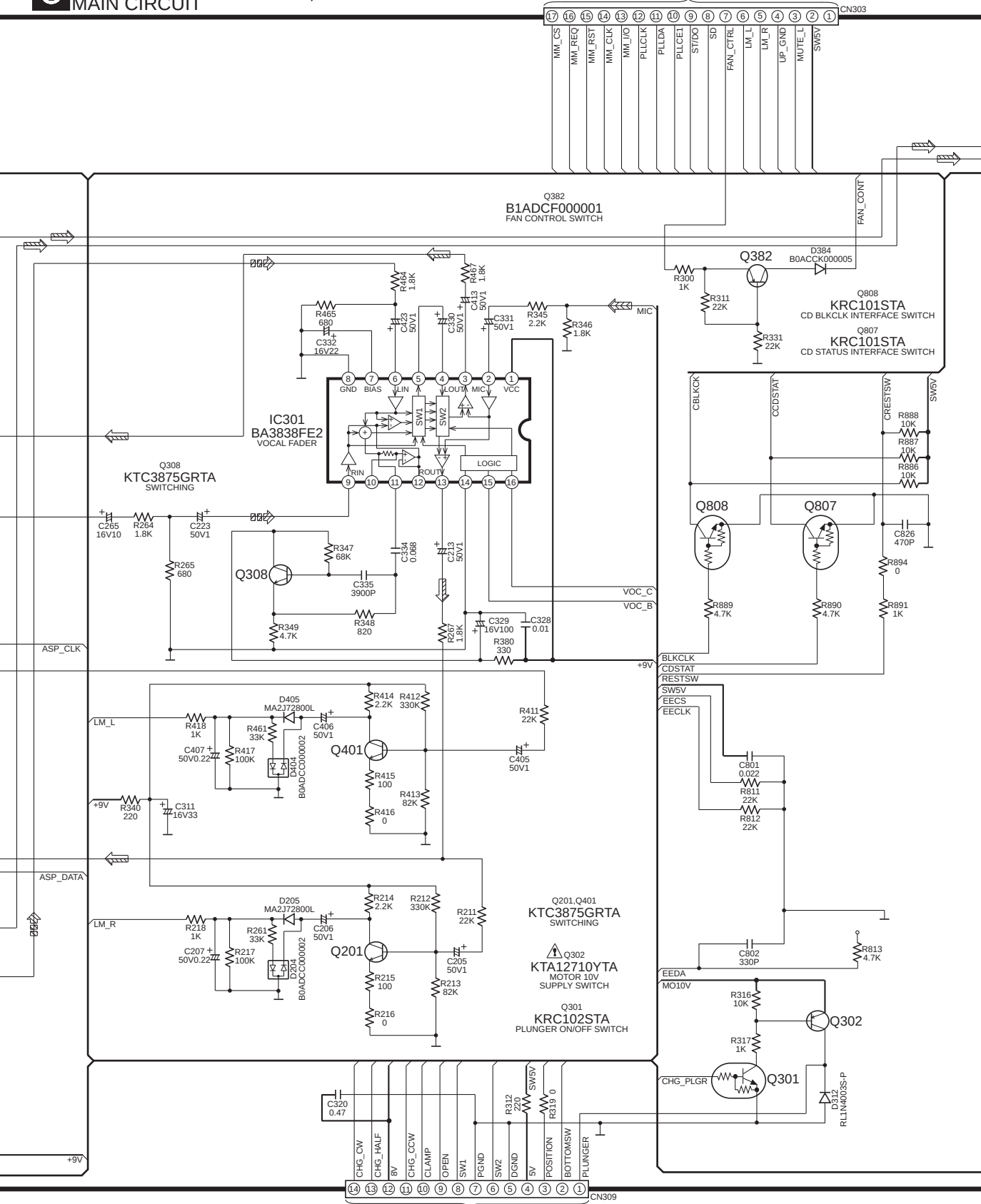


SCHEMATIC DIAGRAM - 6

C MAIN CIRCUIT

— : +B SIGNAL LINE  : MAIN SIGNAL LINE  : RECORD SIGNAL LINE
 : MIC SIGNAL LINE

TO D
PANEL CIRCUIT (CP601) ON
SCHEMATIC DIAGRAM-14



TO P
CD LOADING CIRCUIT
(CN1) ON SCHEMATIC DIAGRAM-22

C MAIN CIRCUIT

— — : -B SIGNAL LINE

 : CD-DA SIGNAL LINE

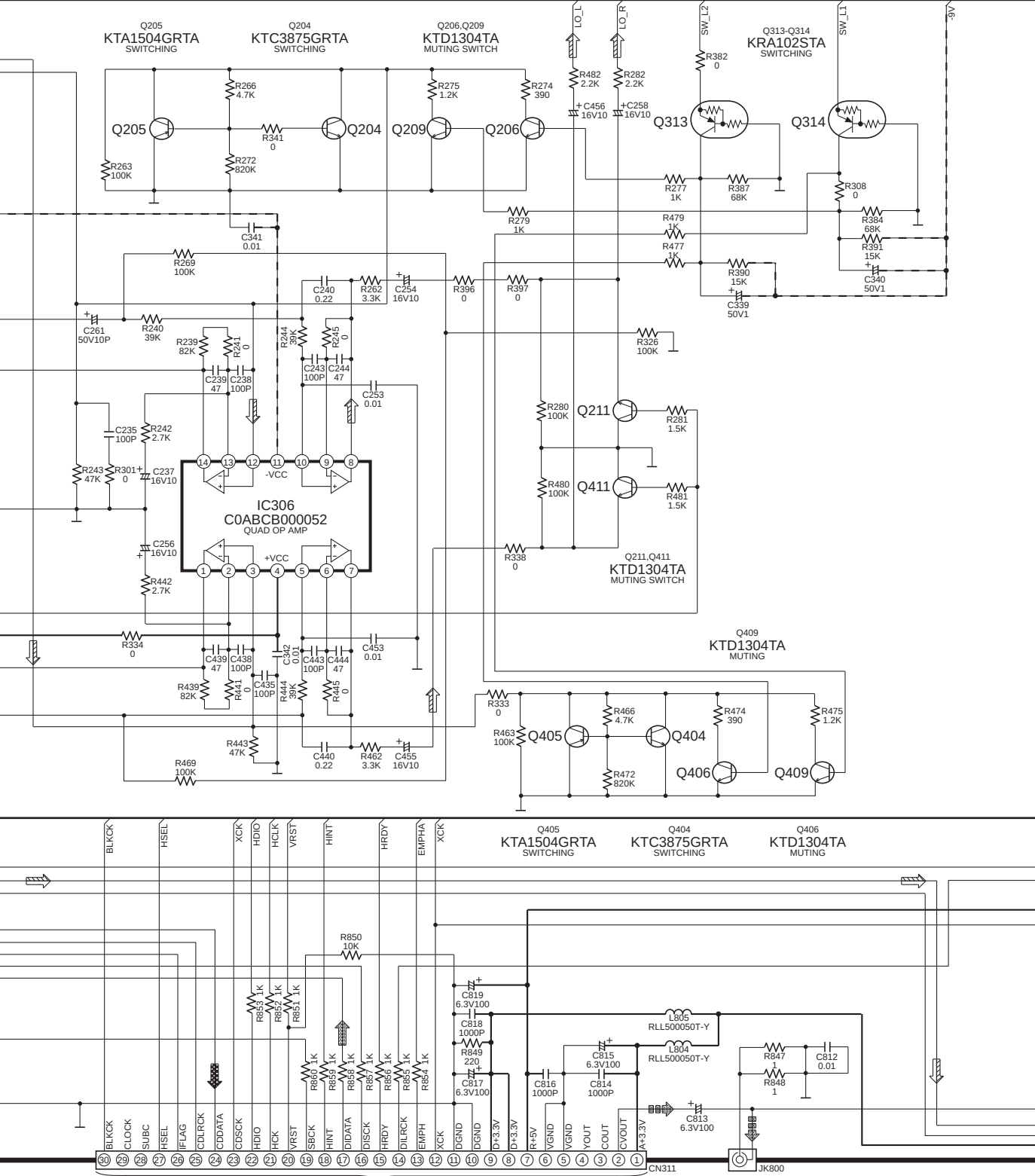
 : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 8

C MAIN CIRCUIT

— : +B SIGNAL LINE : VCD AUDIO SIGNAL LINE : CD-DA SIGNAL LINE
- - : -B SIGNAL LINE : VCD VIDEO SIGNAL LINE



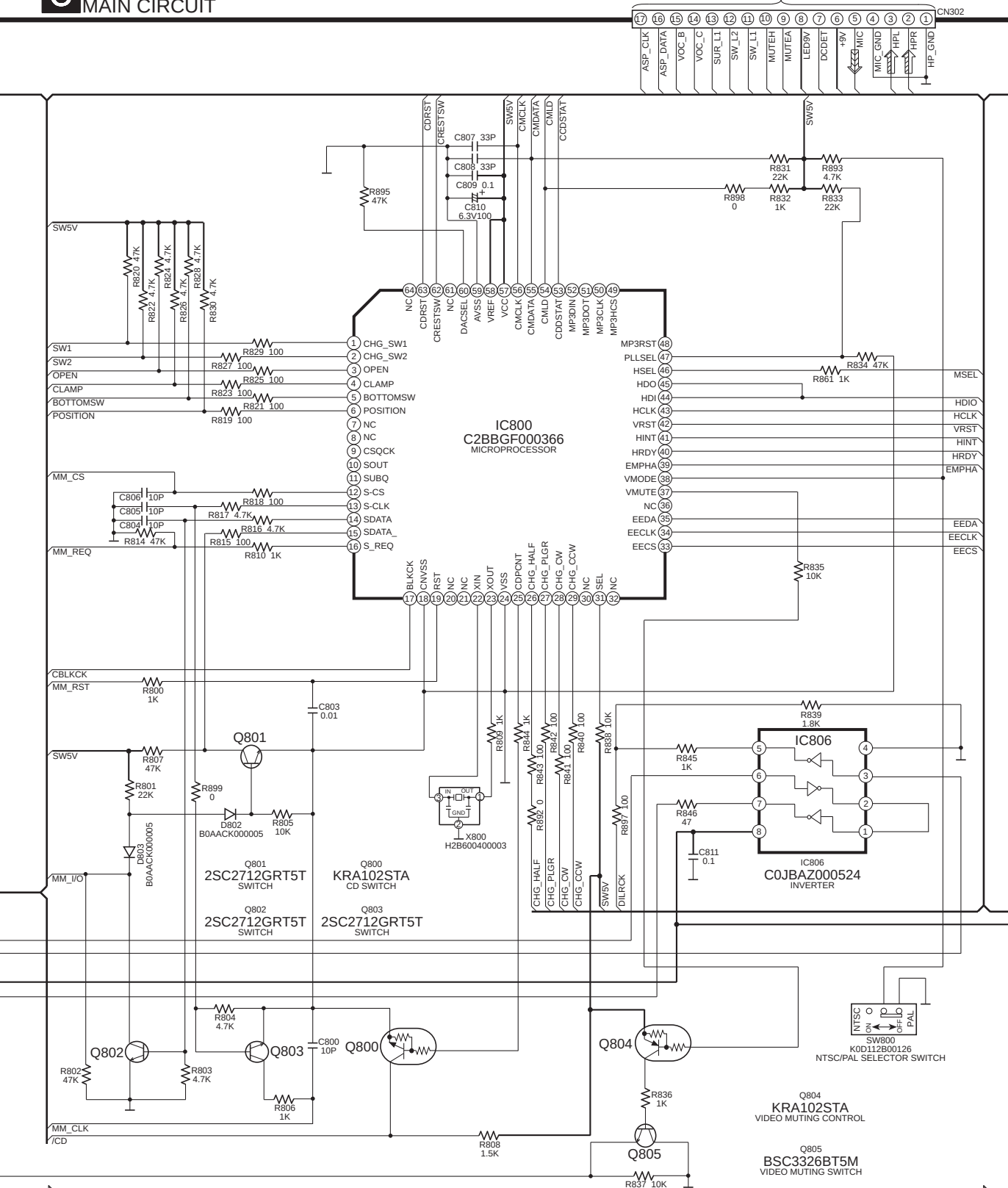
TO VIDEO MODULE CIRCUIT (CN1000)
ON SCHEMATIC DIAGRAM-3

VIDEO
OUT

C

— : +B SIGNAL LINE : MAIN SIGNAL LINE : MIC SIGNAL LINE

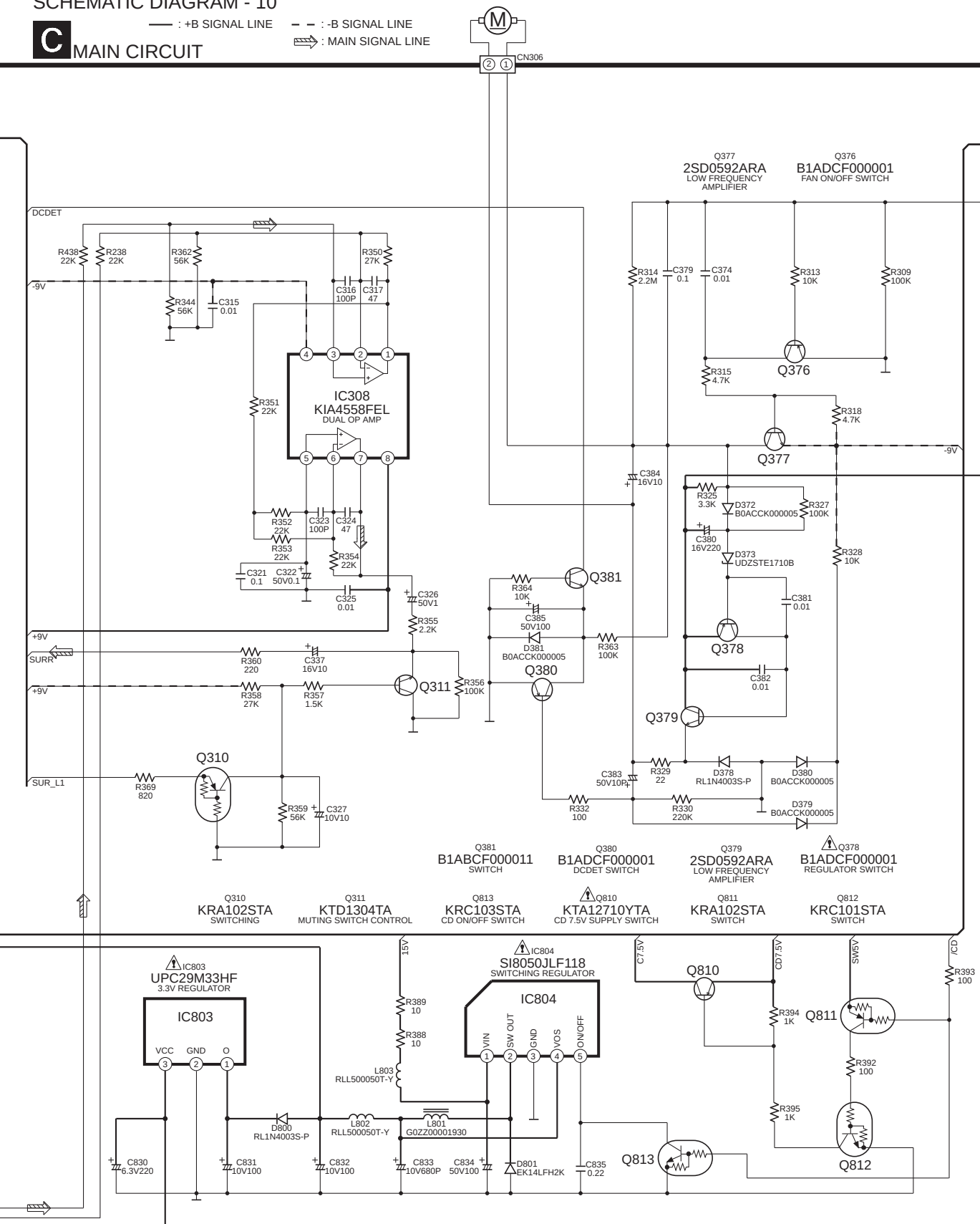
CN302



C MAIN CIRCUIT

— — : -B SIGNAL LINE

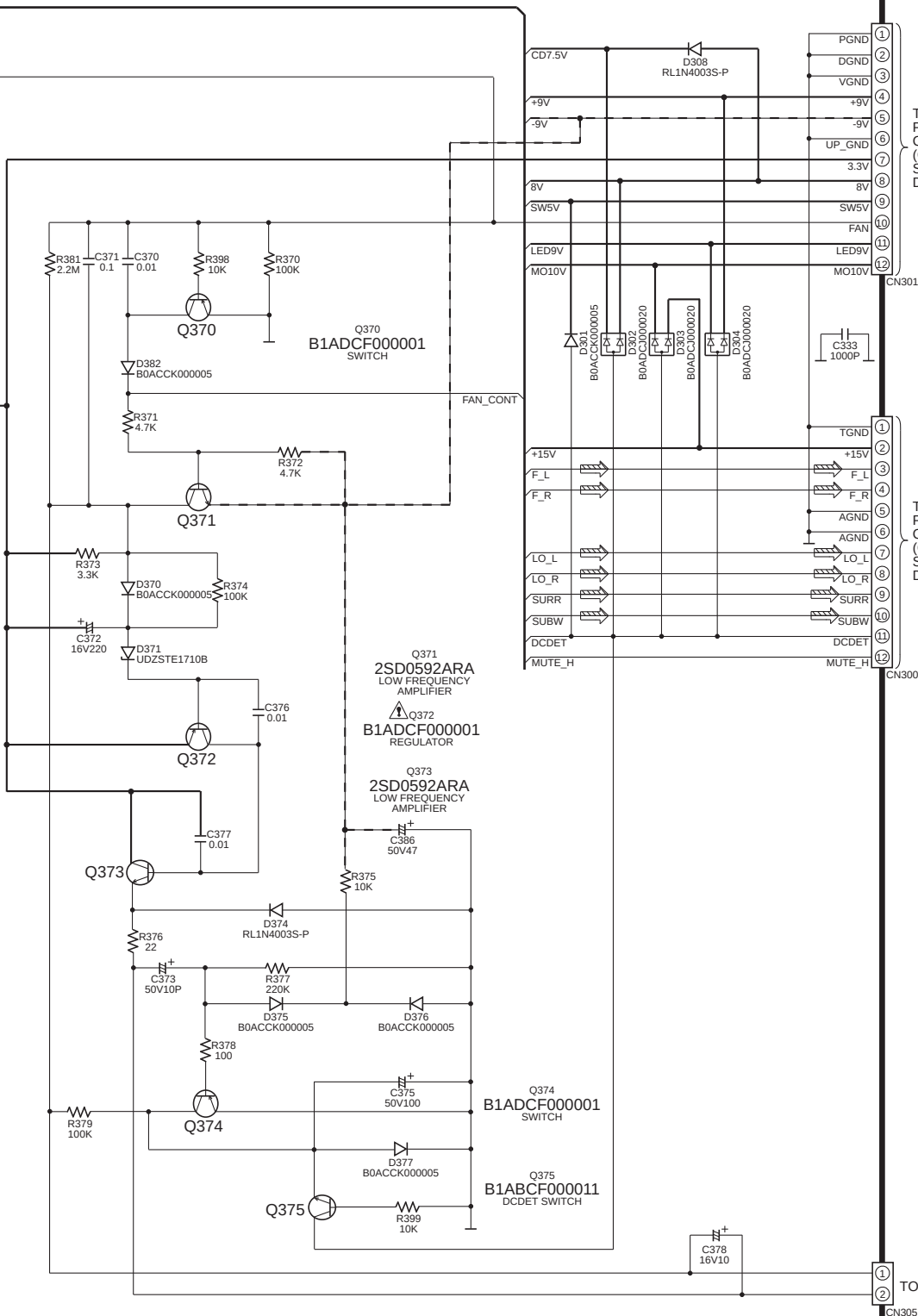
 : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 11

C MAIN CIRCUIT

— : +B SIGNAL LINE - - : -B SIGNAL LINE ➡ : MAIN SIGNAL LINE



TO POWER (1)
CIRCUIT (CP501) ON
SCHEMATIC
DIAGRAM-17

TO POWER (1)
CIRCUIT (CP500) ON
SCHEMATIC
DIAGRAM-17

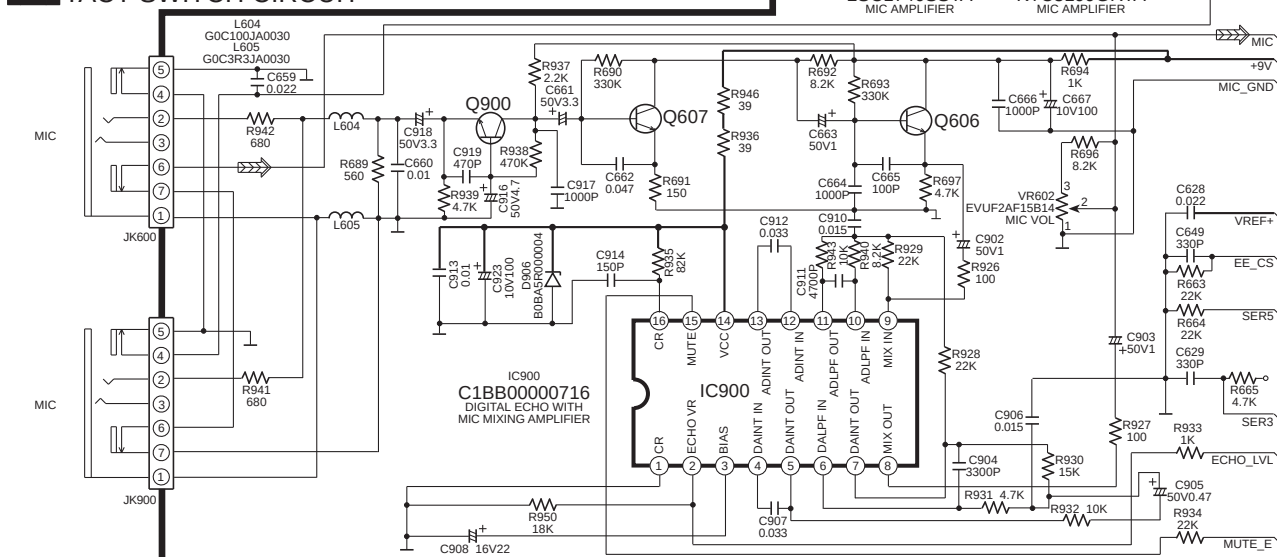
TO FAN

D

— : +B SIGNAL LINE : MAIN SIGNAL LINE : MIC SIGNAL LINE



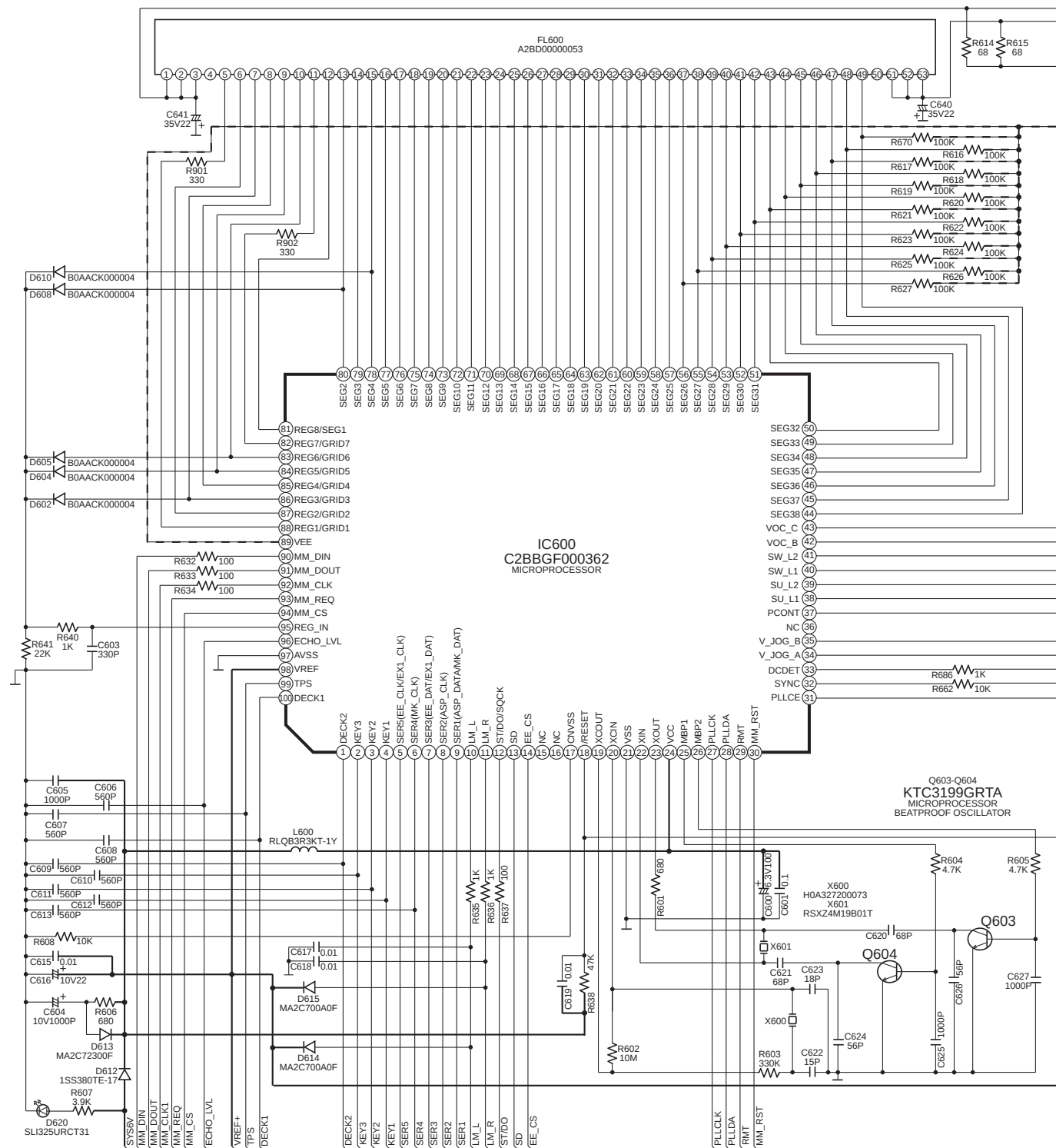
TACT SWITCH CIRCUIT



SCHEMATIC DIAGRAM - 13

D PANEL CIRCUIT

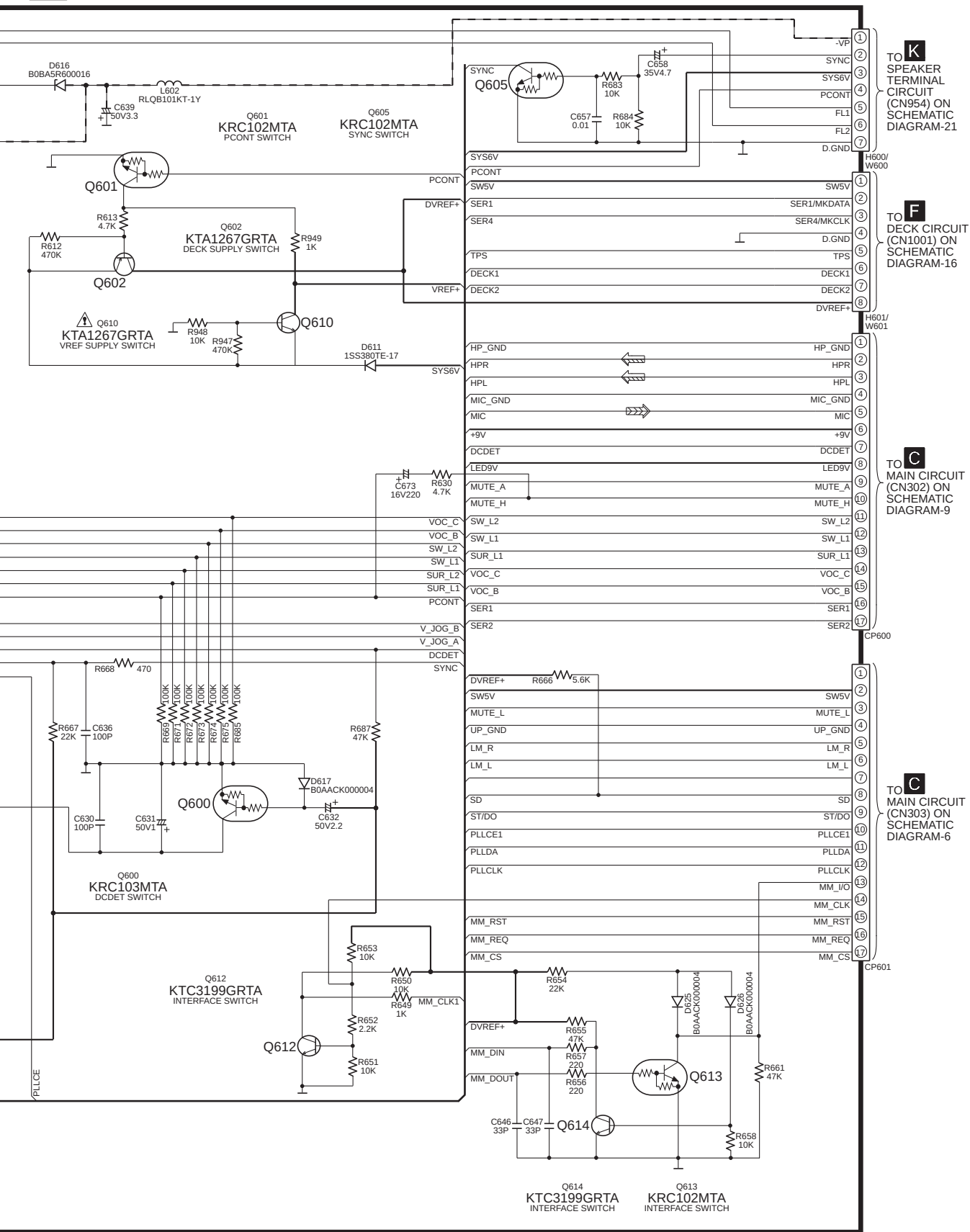
— : +B SIGNAL LINE - - : -B SIGNAL LINE



SCHEMATIC DIAGRAM - 14

D PANEL CIRCUIT

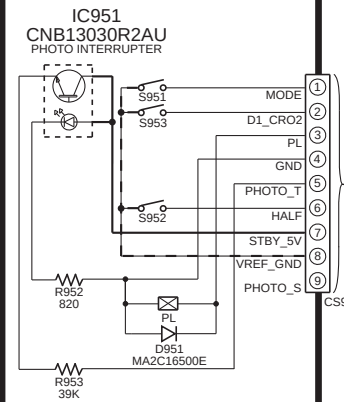
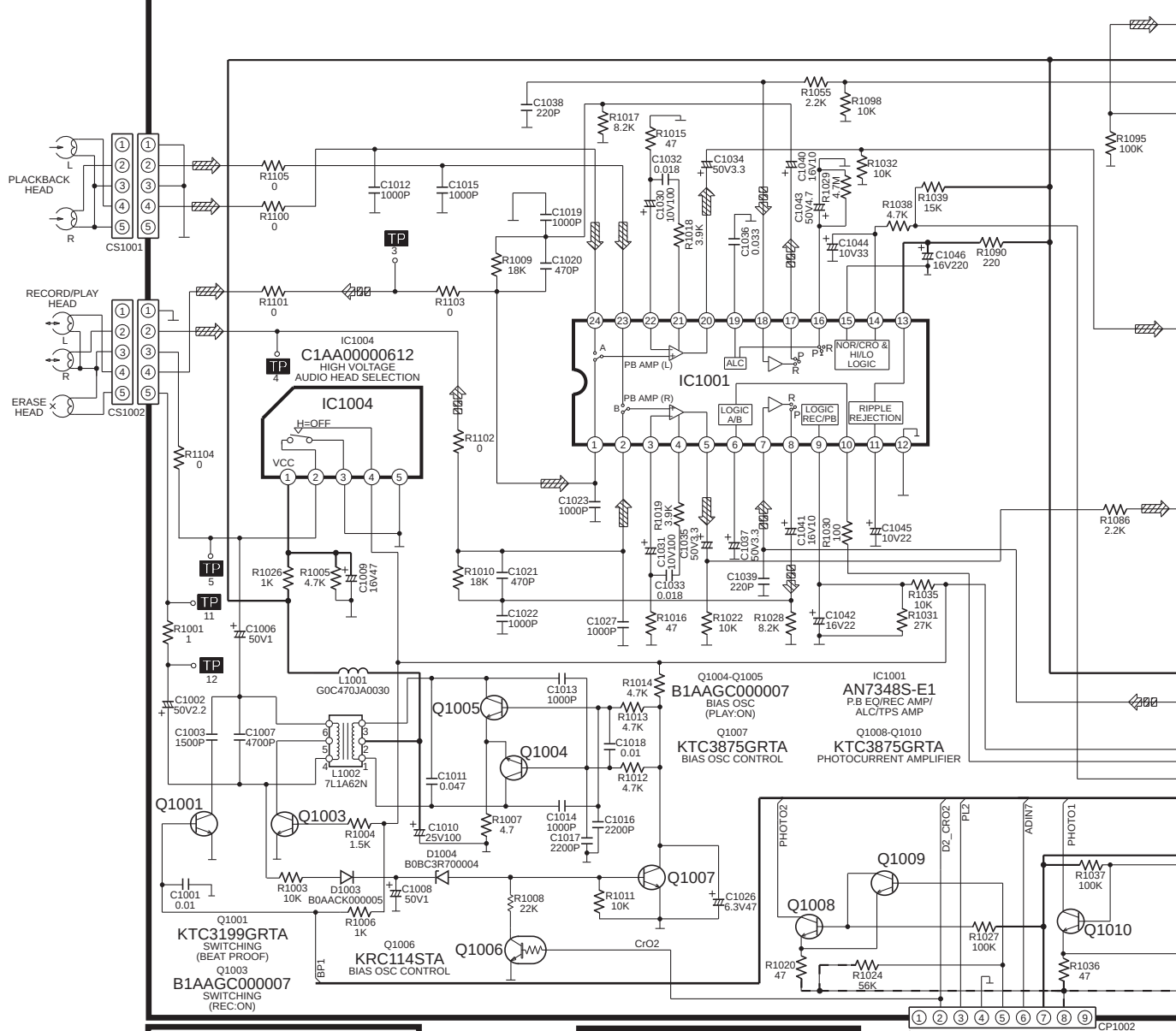
— : +B SIGNAL LINE - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ⇨⇨ : MIC SIGNAL LINE



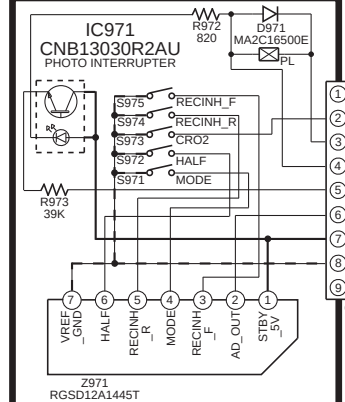
SCHEMATIC DIAGRAM - 15

— : +B SIGNAL LINE
 - - - : -B SIGNAL LINE
 ▨ : PLAYBACK SIGNAL LINE
 ▩ : RECORD SIGNAL LINE

F DECK CIRCUIT



G MECHANISM CIRCUIT (DECK 1)

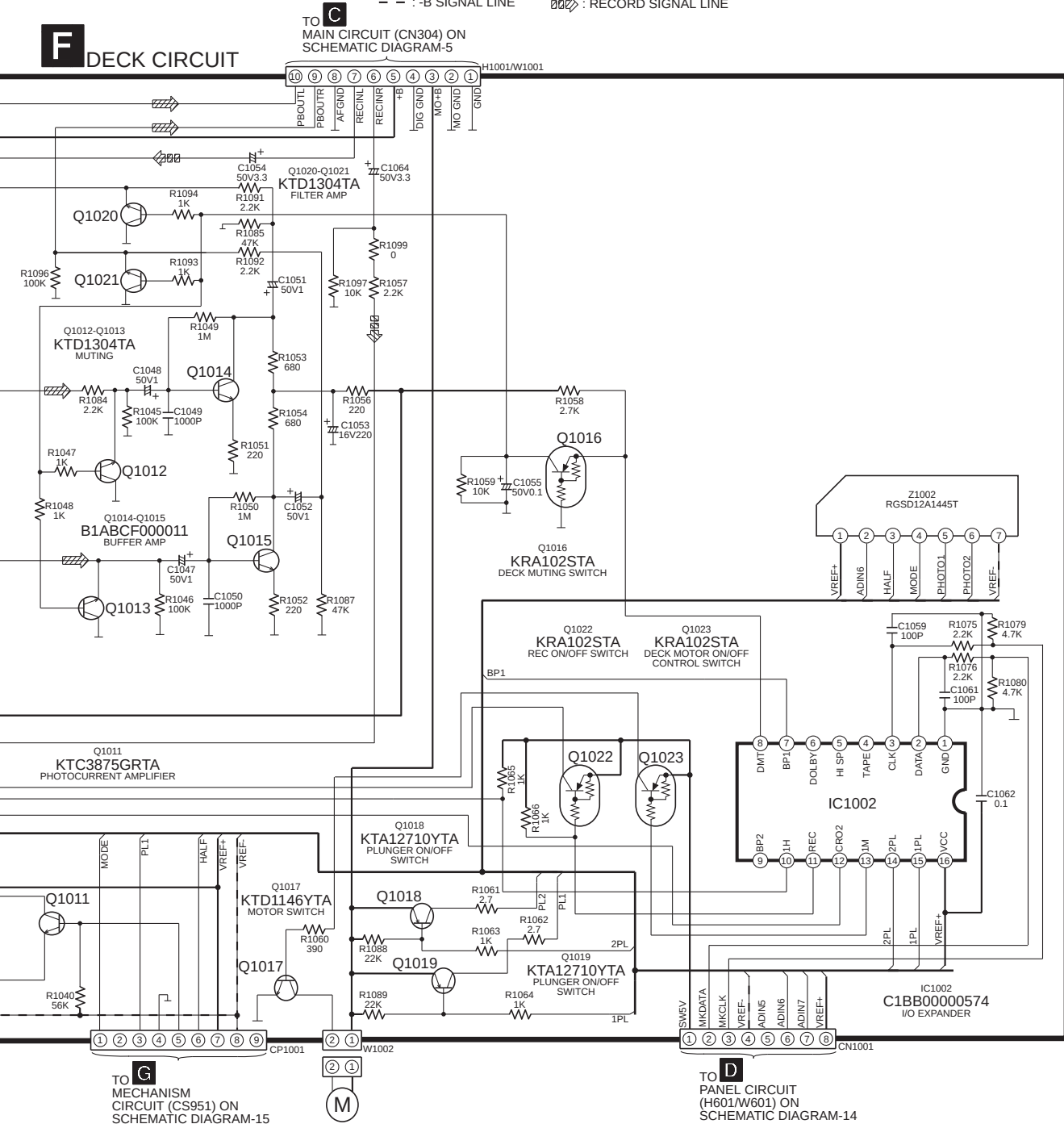


H MECHANISM CIRCUIT (DECK 2)

SCHEMATIC DIAGRAM - 16

— : +B SIGNAL LINE
 - - : -B SIGNAL LINE
 ▨ : PLAYBACK SIGNAL LINE
 ▩ : RECORD SIGNAL LINE

F DECK CIRCUIT



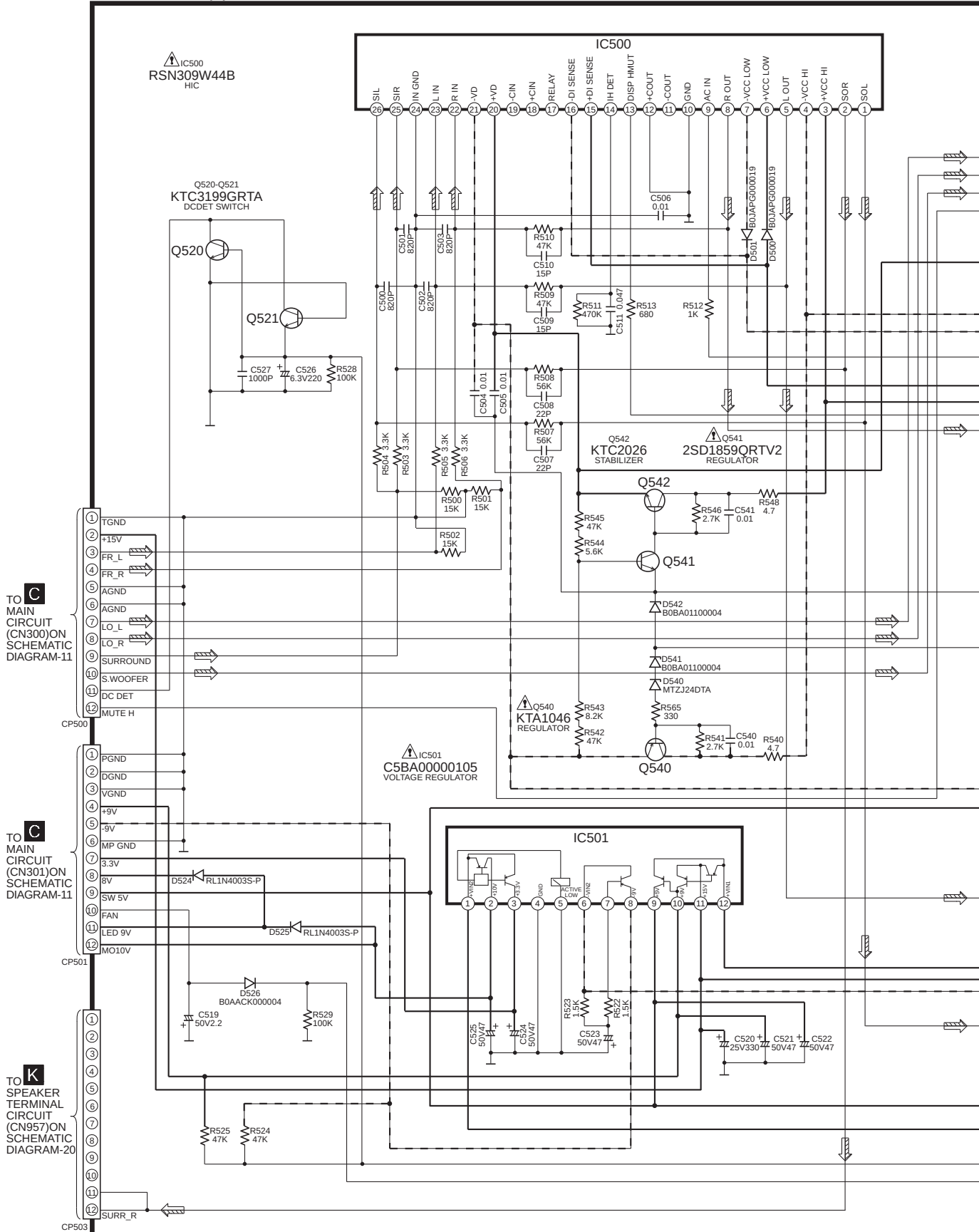
SCHEMATIC DIAGRAM - 17

— : +B SIGNAL LINE

- - - : -B SIGNAL LINE

⇒ : MAIN SIGNAL LINE

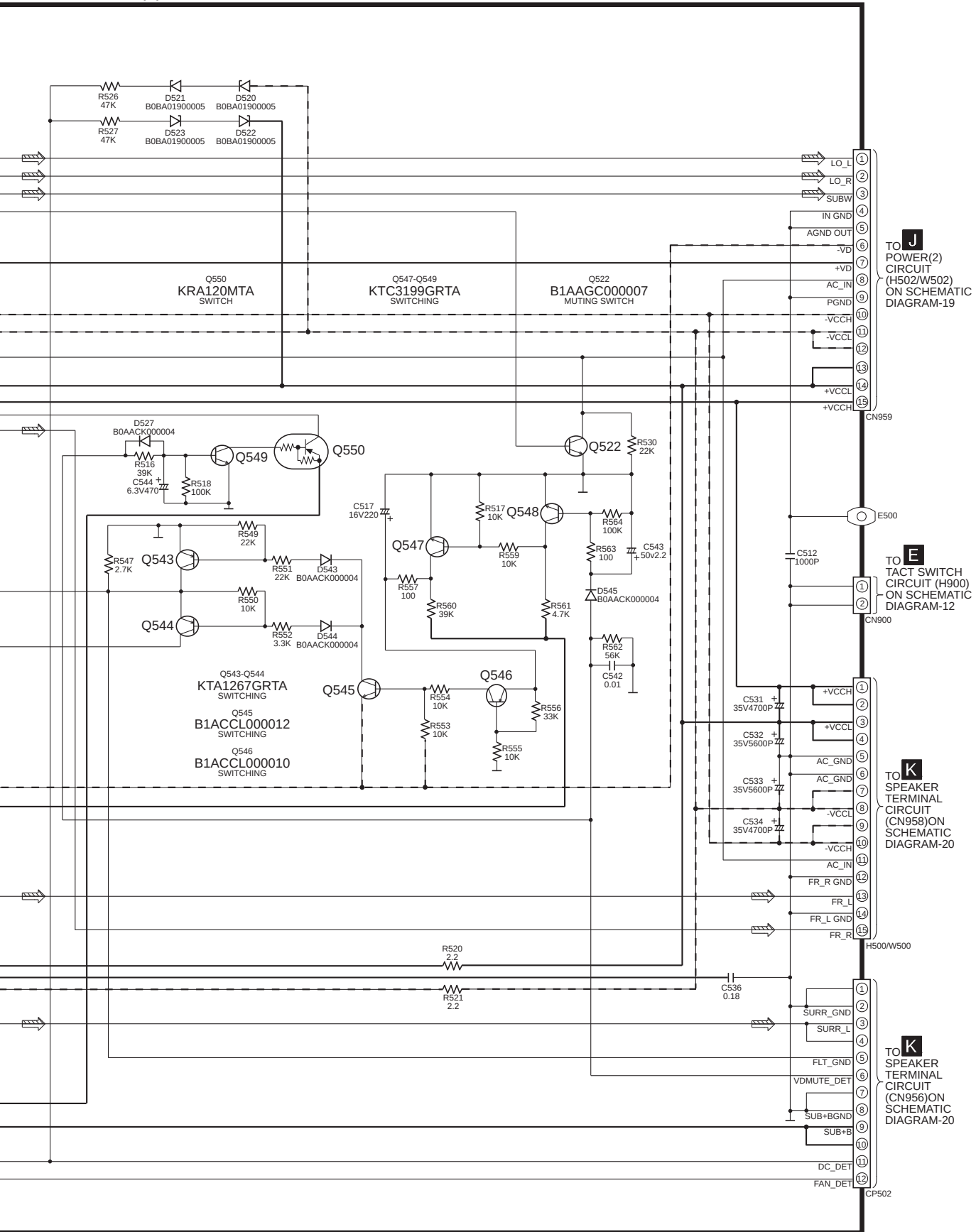
POWER (1) CIRCUIT



SCHEMATIC DIAGRAM - 18

I POWER (1) CIRCUIT

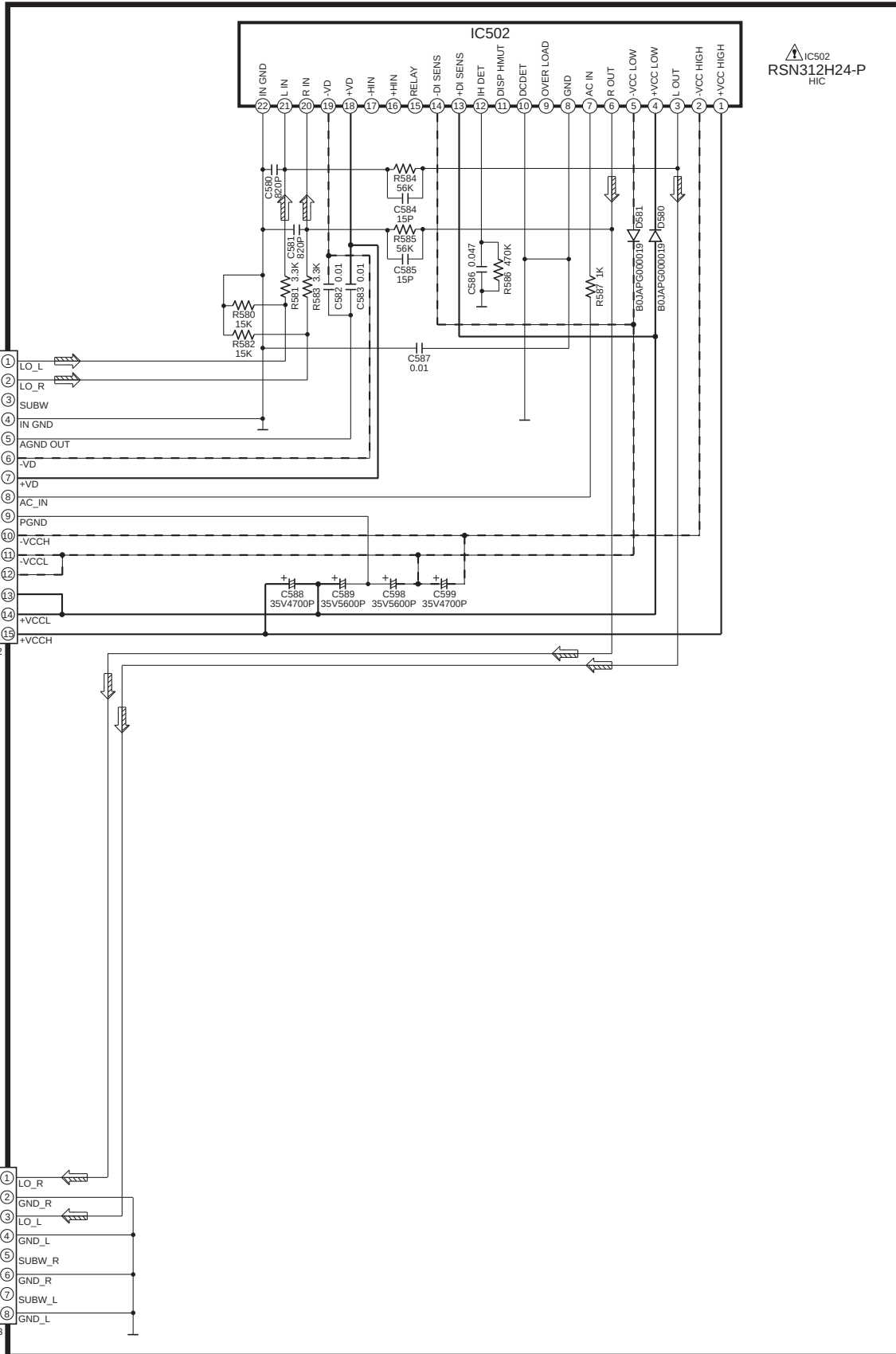
— : +B SIGNAL LINE - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 19

J — : +B SIGNAL LINE - - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

POWER CIRCUIT (2)



I TO POWER(1) CIRCUIT (CN959) ON SCHEMATIC DIAGRAM-18

K TO SPEAKER TERMINAL CIRCUIT (CN955) ON SCHEMATIC DIAGRAM-21

SCHEMATIC DIAGRAM - 20

K

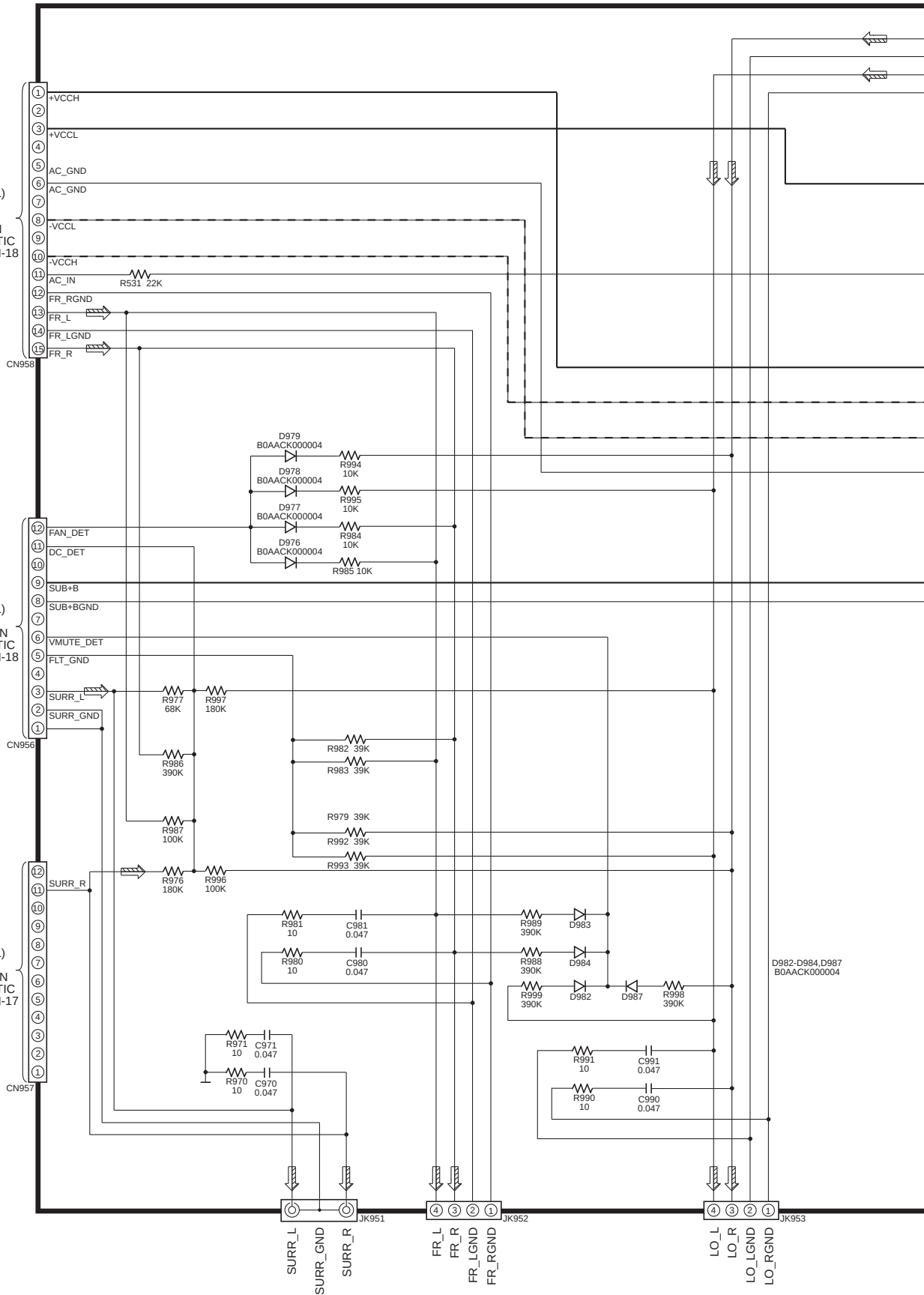
SPEAKER TERMINAL CIRCUIT

— : +B SIGNAL LINE - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

TO POWER(1)
CIRCUIT
(H500/
W500) ON
SCHEMATIC
DIAGRAM-18

TO POWER(1)
CIRCUIT
(CP502) ON
SCHEMATIC
DIAGRAM-18

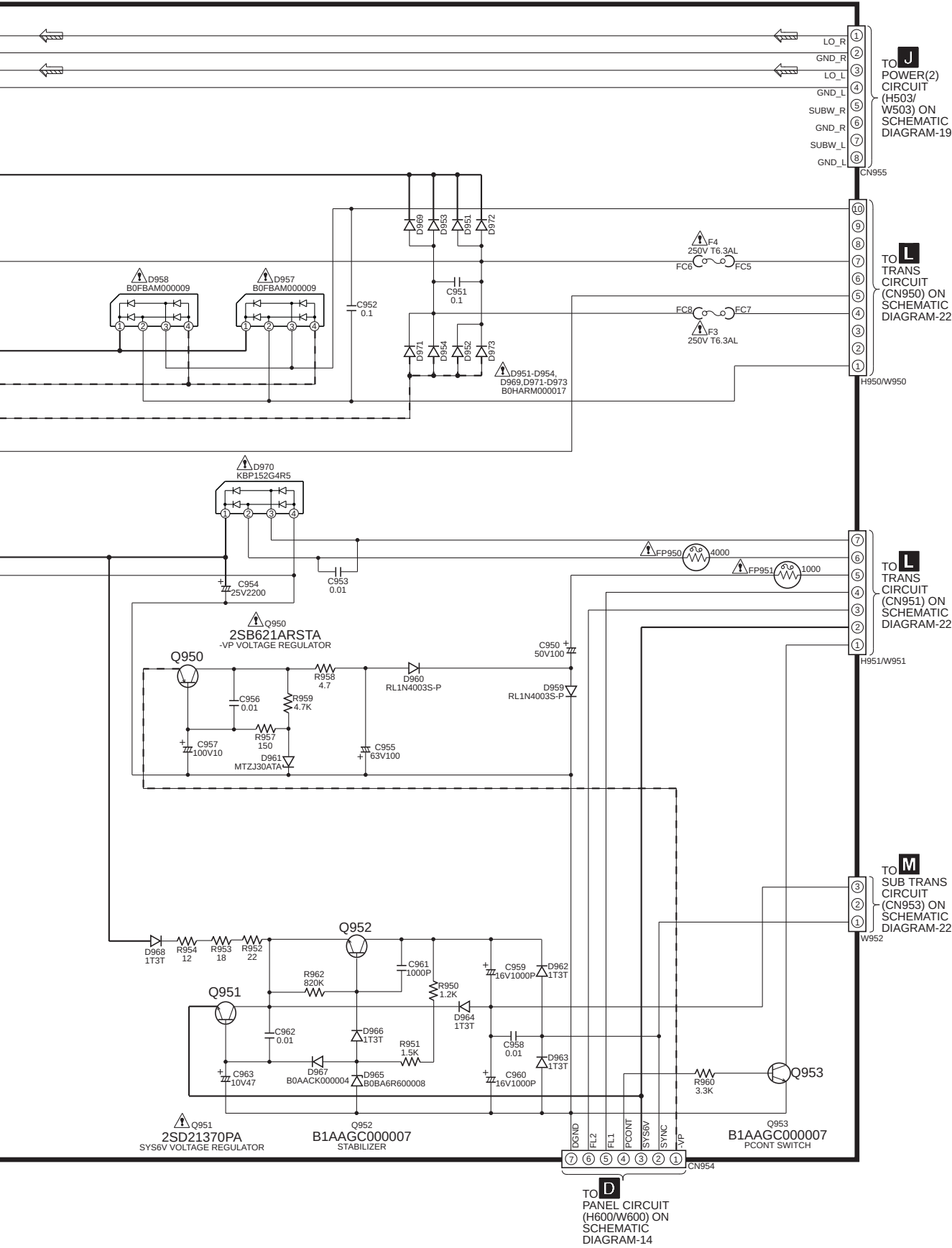
TO POWER(1)
CIRCUIT
(CP503) ON
SCHEMATIC
DIAGRAM-17



SCHEMATIC DIAGRAM - 21

K — : +B SIGNAL LINE - - - : -B SIGNAL LINE  : MAIN SIGNAL LINE

K SPEAKER TERMINAL CIRCUIT



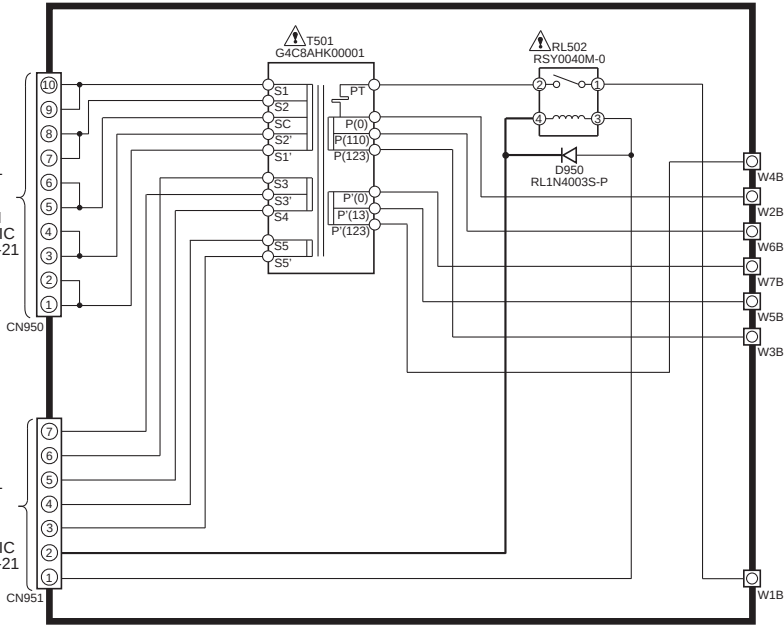
SCHEMATIC DIAGRAM - 22

— : +B SIGNAL LINE

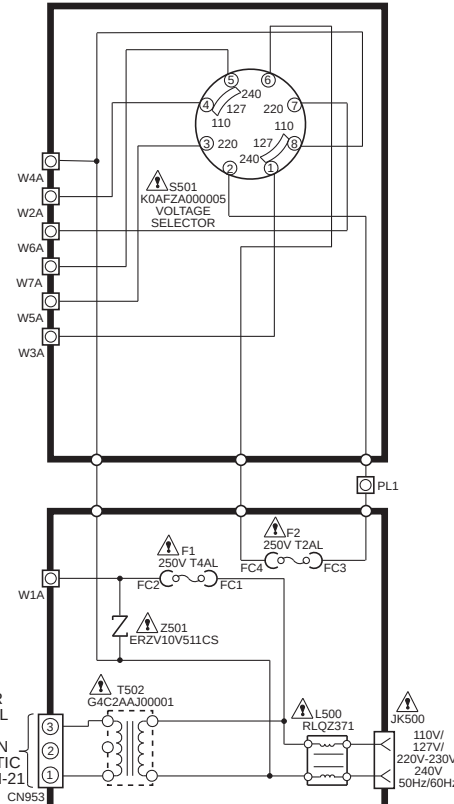
L AC TRANSFORMER CIRCUIT

K TO SPEAKER TERMINAL CIRCUIT (H950/W950) ON SCHEMATIC DIAGRAM-21

K TO SPEAKER TERMINAL CIRCUIT (H951/W951) ON SCHEMATIC DIAGRAM-21



Q VOLTAGE SELECTOR CIRCUIT

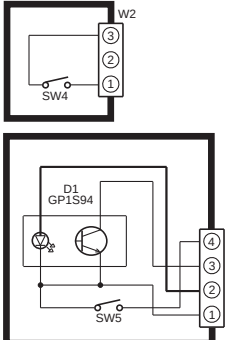


K TO SPEAKER TERMINAL CIRCUIT (W952) ON SCHEMATIC DIAGRAM-21

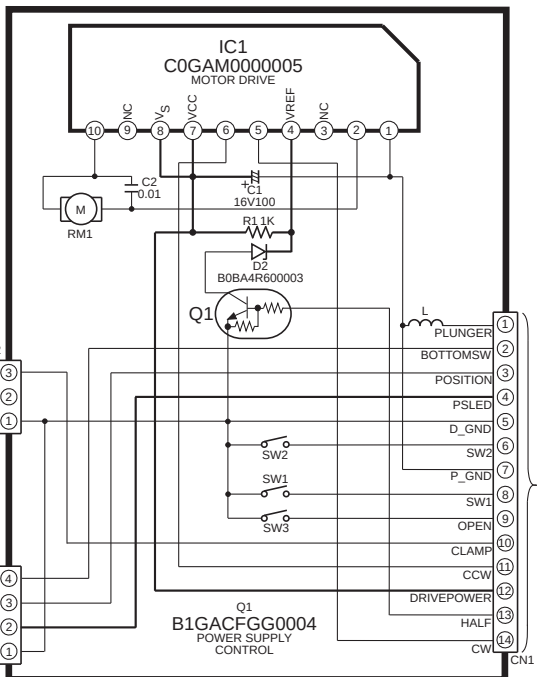
M SUB TRANSFORMER CIRCUIT



N CD DETECT CIRCUIT



O SPINDLE POSITION CIRCUIT



P CD LOADING CIRCUIT

C TO MAIN CIRCUIT (CN309) ON SCHEMATIC DIAGRAM-6

