

Service Manual

COMPACT
disc
DIGITAL AUDIO

MASH*1
multi-stage noise shaping

*2  **DOLBY B NR**

CD Stereo System
SA-AK55

Colour

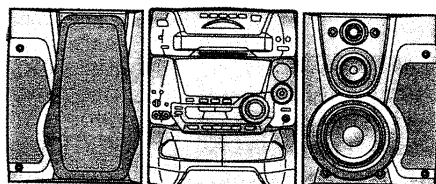
(S) ... Silver Type



Remote Control
Transmitter



SB-PS55 SB-PC55



SB-AK55

SA-AK55

SB-AK55



SB-PS55

Area

Suffix for Model No.	Area	Colour
(GC)	Asia, Latin America, Africa and Middle Near East	(S)

*1 MASH is a trademark of NTT.

System	Music Center	Speaker	Center Speaker	Surround Speaker
SC-AK55 (GC)	SA-AK55 (GC)	SB-AK55 (GC)	SB-PC55 (GC1)	SB-PS55 (GC1)

*2 Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

TAPE SECTION : AR2 MECHANISM SERIES
CD SECTION : RAE0152Z-M TRAVERSE DECK SERIES

Specifications

Amplifier Section

Front speaker power output	
PMPO	2000W (6Ω)
RMS power output	
THD 10%, both channels driven	100W per channel (6Ω)
Power output in Doldy Pro Logic mode	
PMPO	Total 2500W
RMS power output	
THD 10% both channel driven	
Front	100W per channel (6Ω)
Center	45W per channel (8Ω)
Surround	22.5W per channel (4Ω)
Input sensitivity and impedance	
AUX	250mV, 10KΩ
MIC	0.7mV, 600Ω

Cassette Deck Section

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase
Tape speed	4.8 cm/s
Frequency response (+3, -6 dB at DECK OUT)	
NORMAL (TYPE I)	35 Hz – 14 kHz
HIGH (TYPE II)	35 Hz – 14 kHz
S/N	
Dolby NR off	50dB(A weighted)
Dolby NR on	60dB(CCIR)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	

Approx. 120 seconds with C-60 cassette tape

FM Tuner Section

Frequency range	87.5 – 108.0 MHz (50 kHz steps)
Sensitivity	
S/N 26dB	1.5 μV
Antenna terminal(s)	75 Ω (unbalanced)

AM Tuner Section

Frequency range	522 – 1629 kHz (9kHz/Step) 520 – 1630 kHz (10kHz/Step)
Sensitivity	
S/N 20 dB	500 μV/m

CD Section

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser / 780 nm
Number of channels	Stereo
Frequency response	20Hz – 20kHz (+1dB, -2dB)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)

General

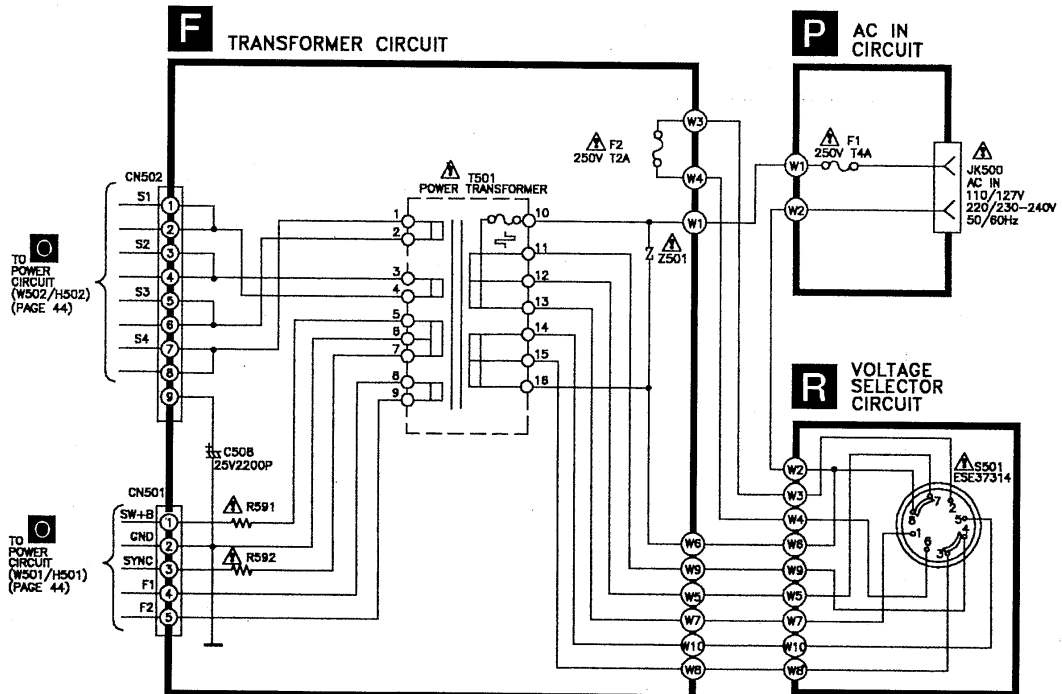
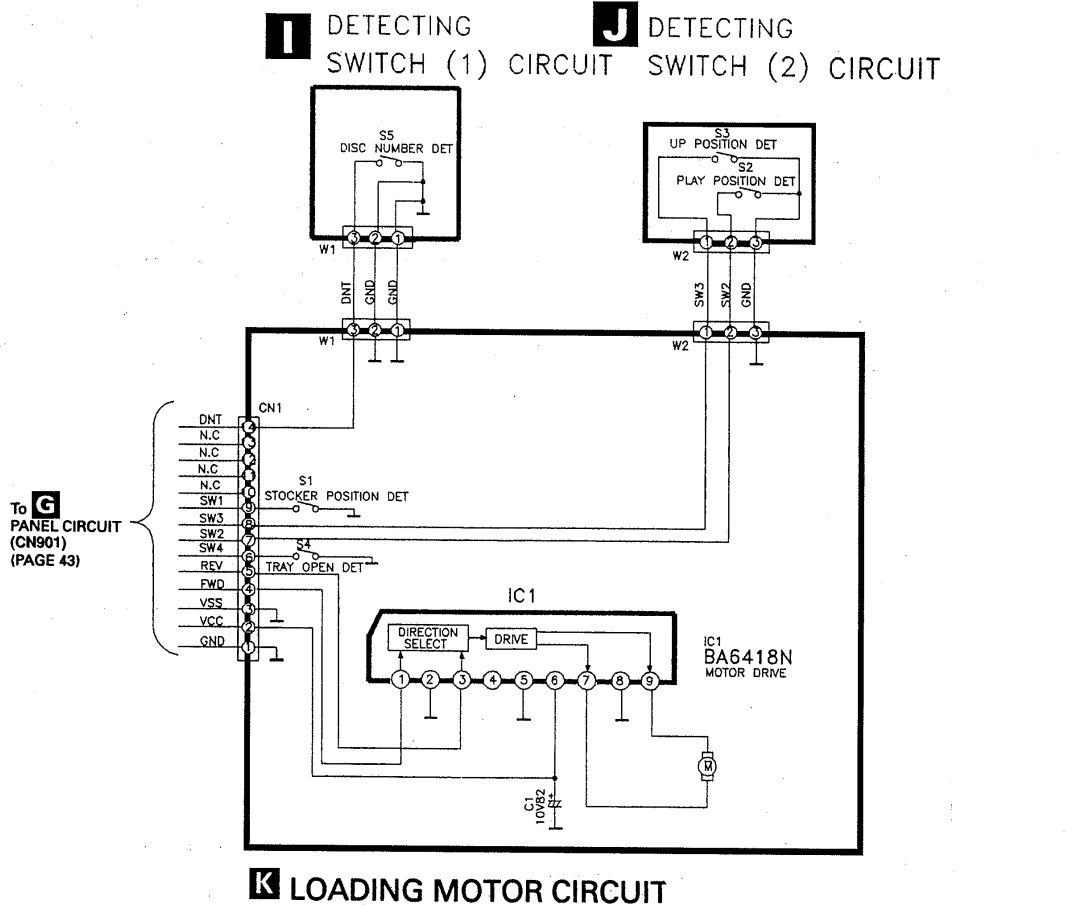
Power consumption	156W
Power supply	AC 110V/127V/220V/230 – 240V, 50/60 Hz
Dimensions (W x H x D)	270 x 336 x 347 mm
Weight	8.3 kg

Notes :

- Specifications are subject to change without notice.
Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

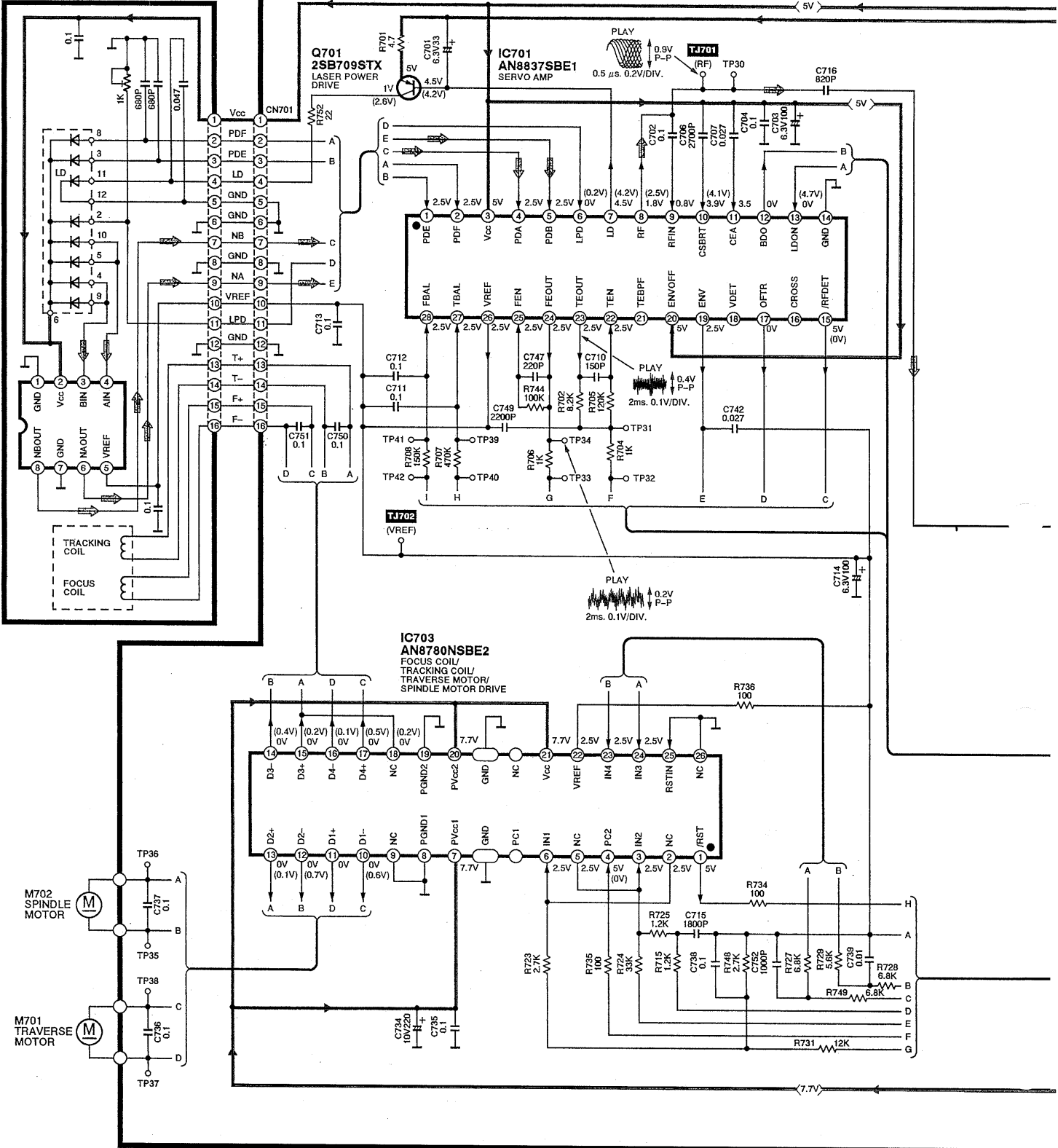
Panasonic[®]

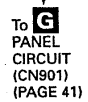
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A CD SERVO CIRCUIT

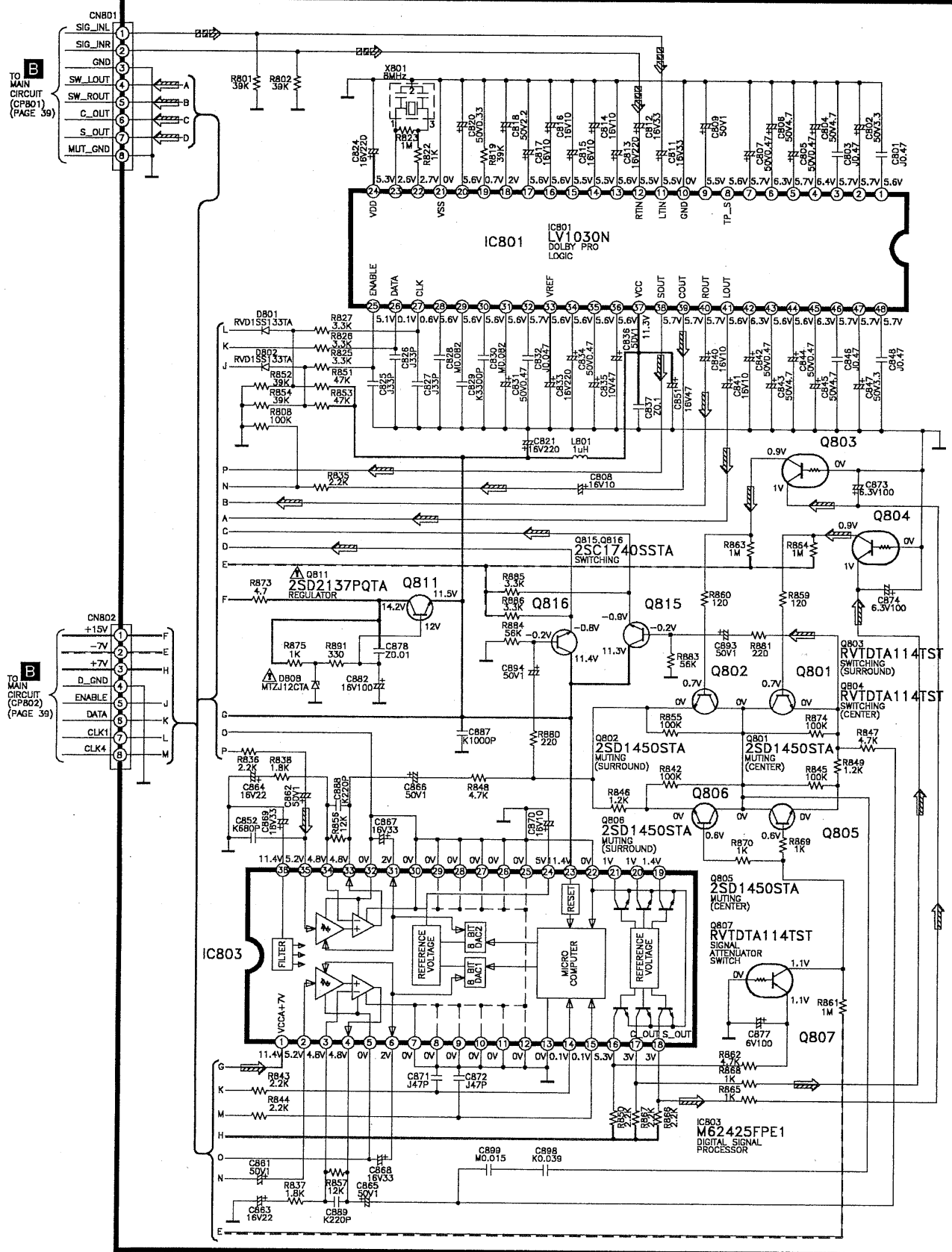
△ OPTICAL PICKUP CIRCUIT



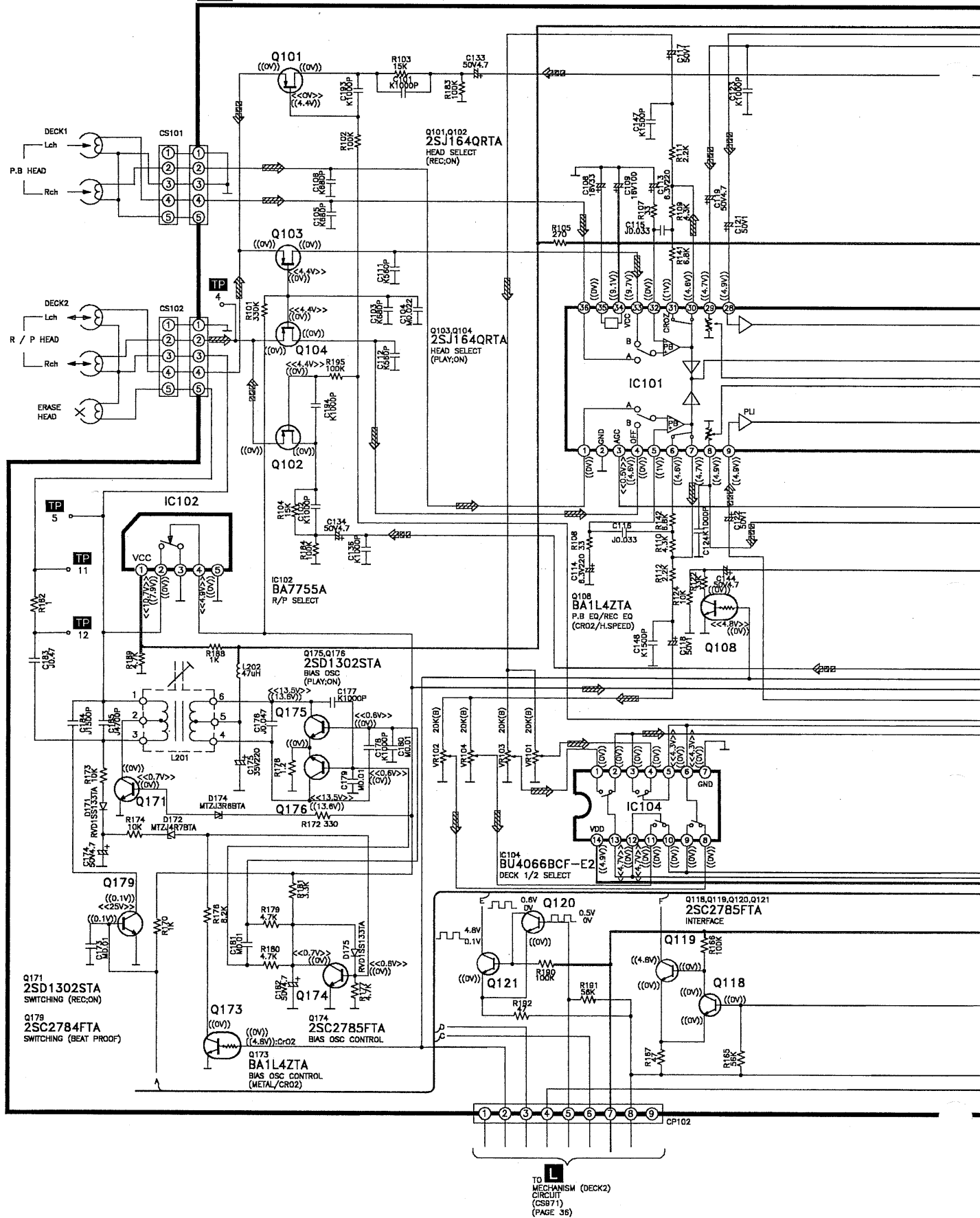


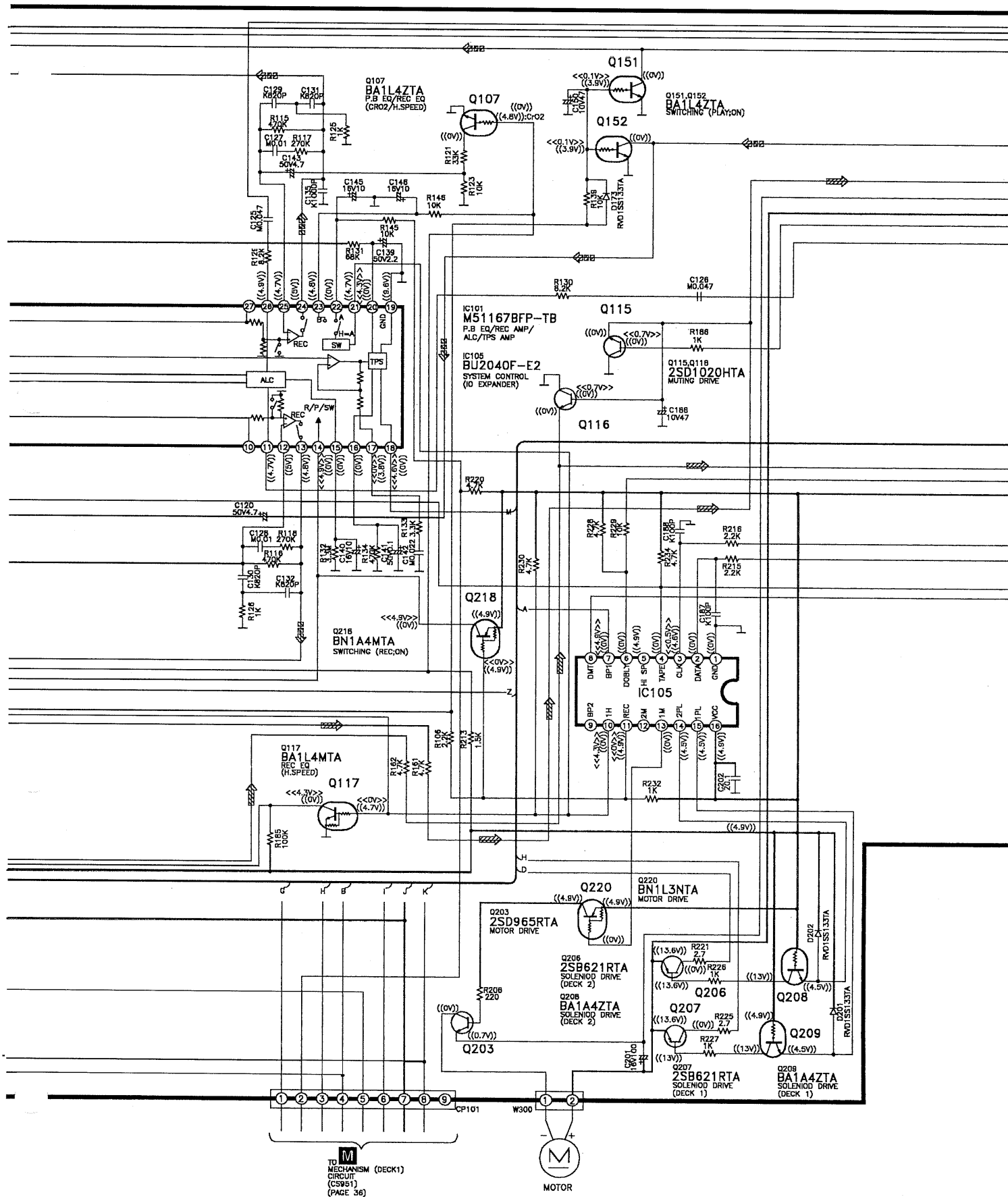


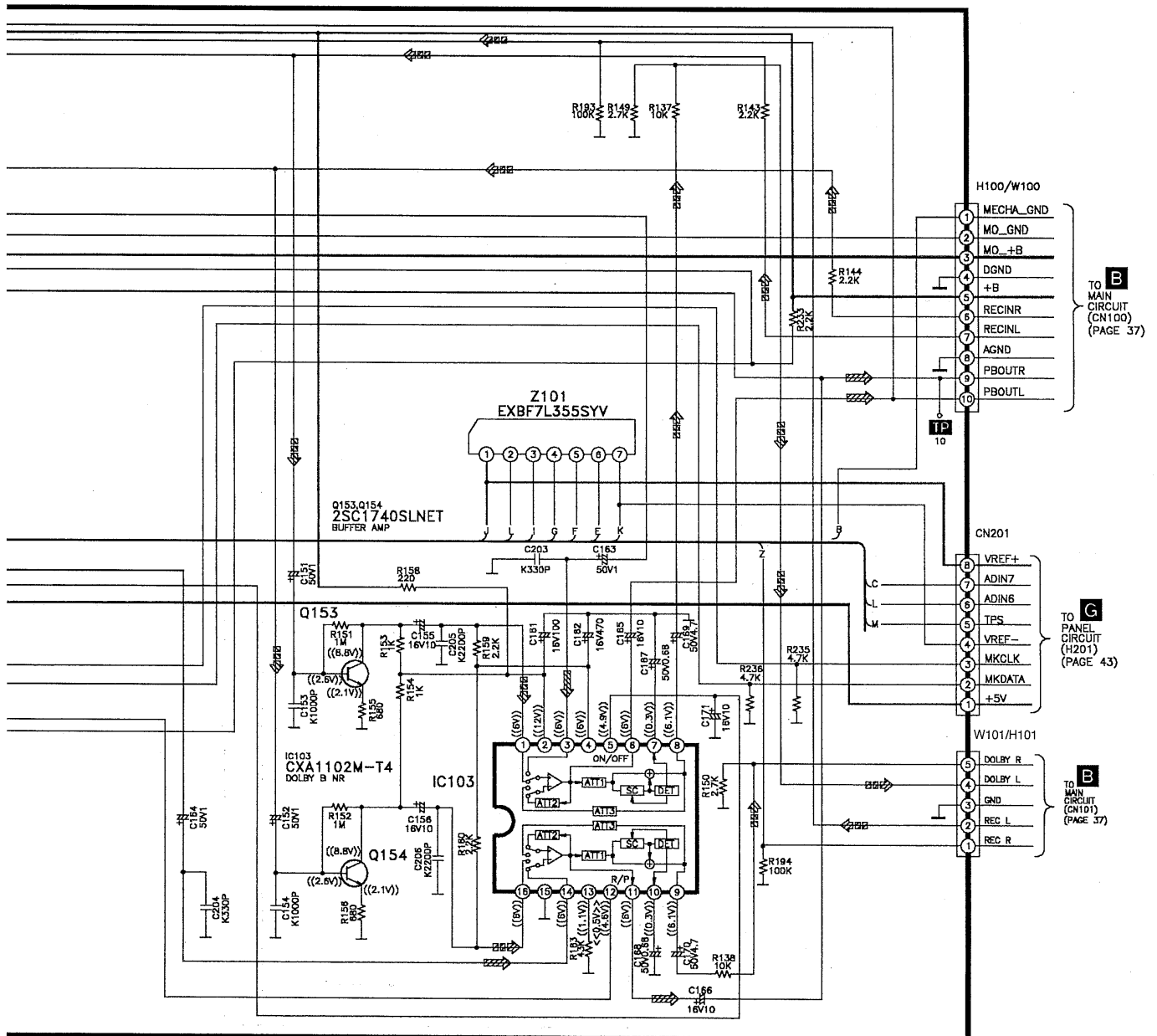
S PRO LOGIC CIRCUIT



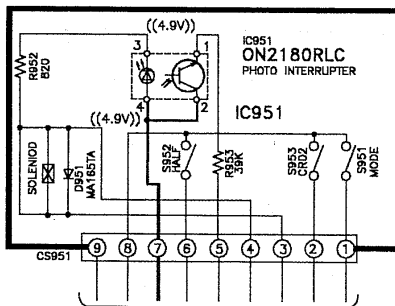
C DECK CIRCUIT



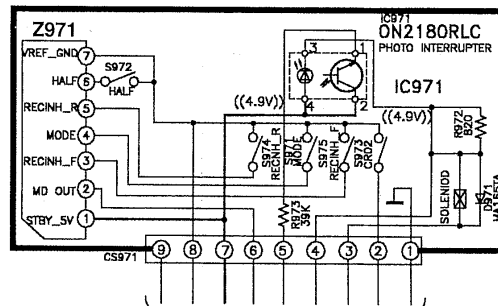




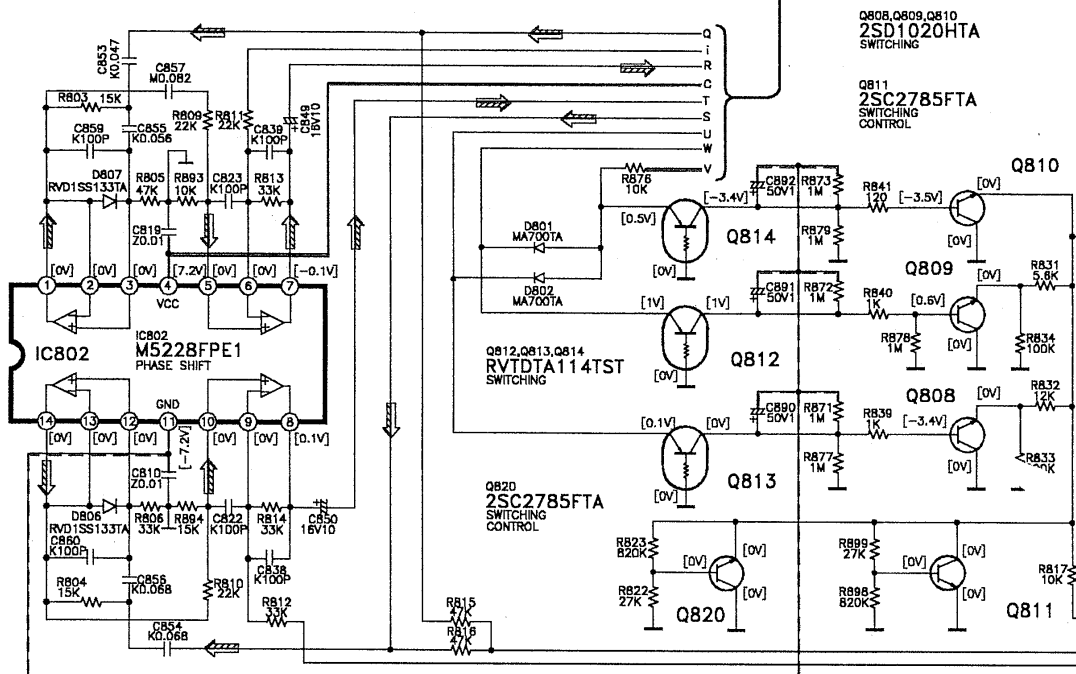
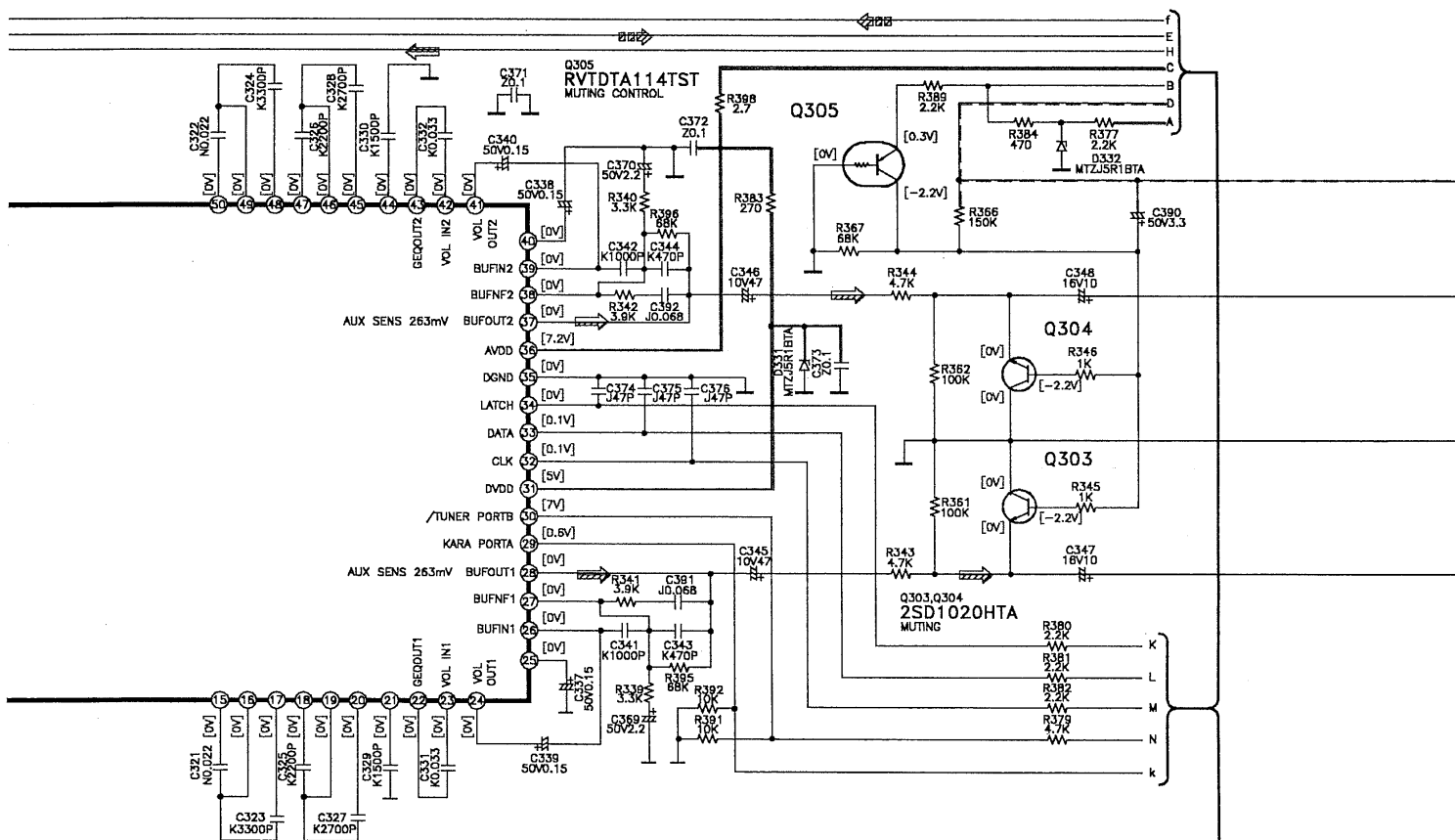
M MECHANISM (DECK 1) CIRCUIT

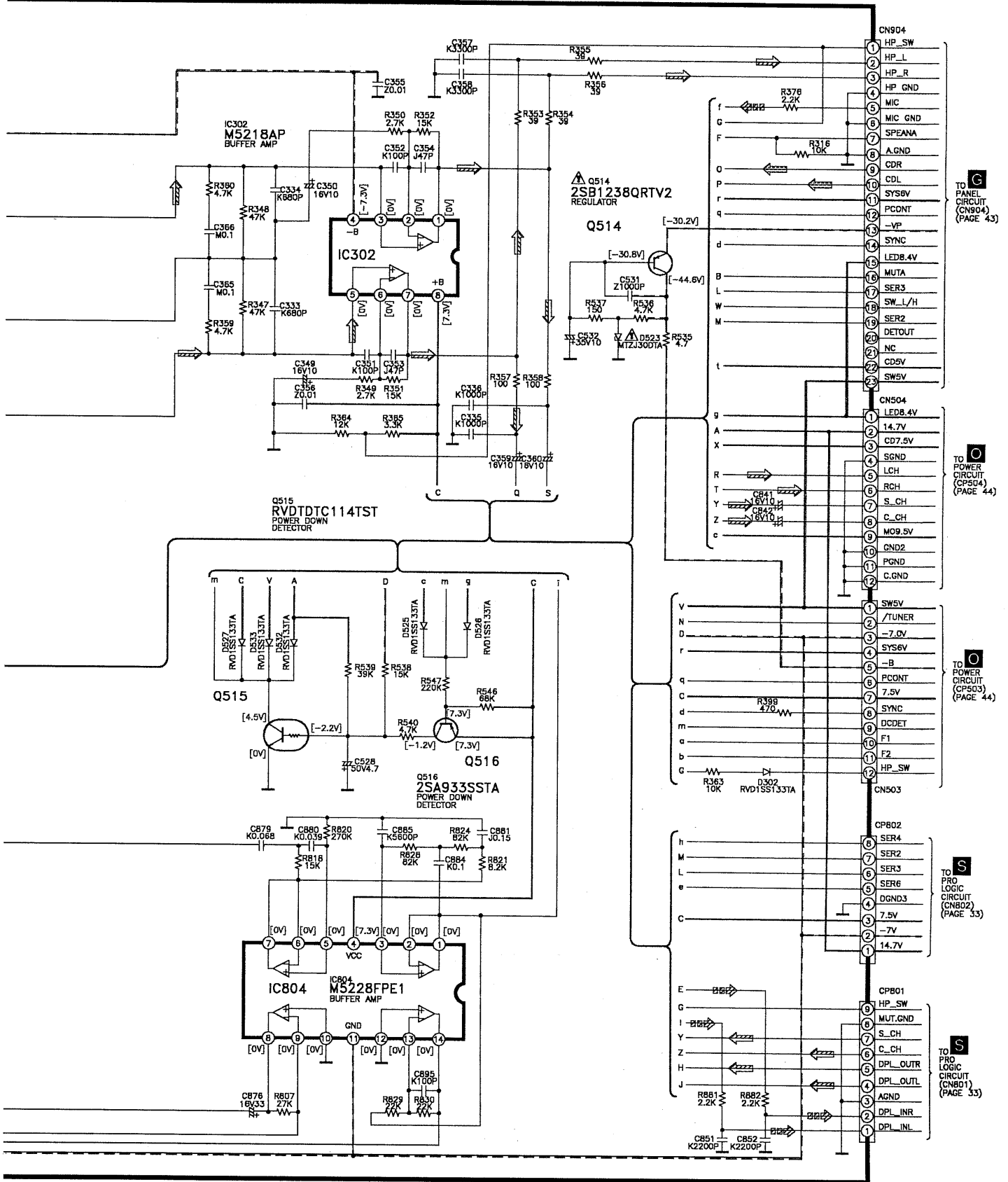


L MECHANISM (DECK 2) CIRCUIT

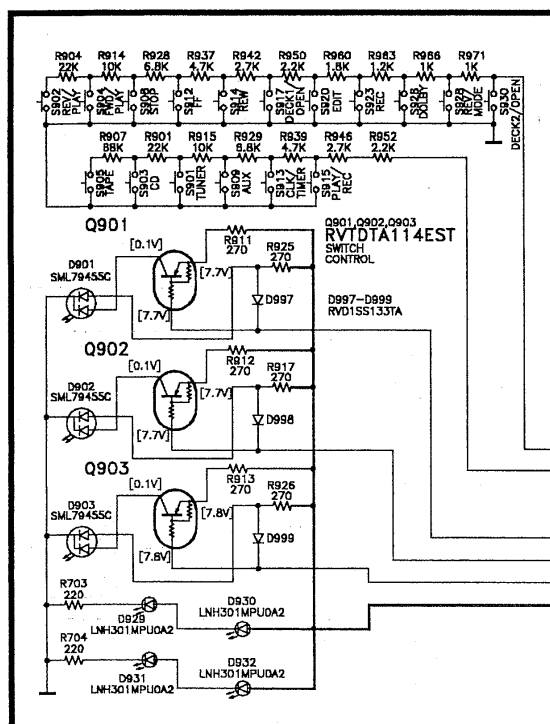




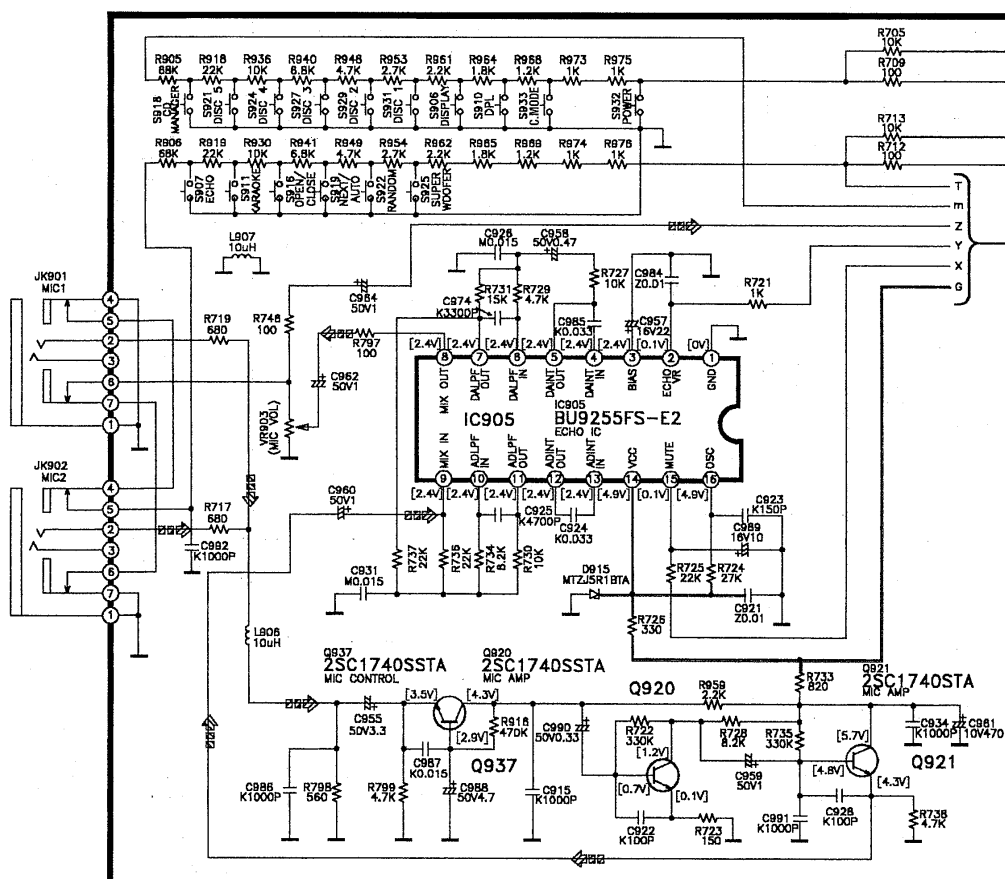
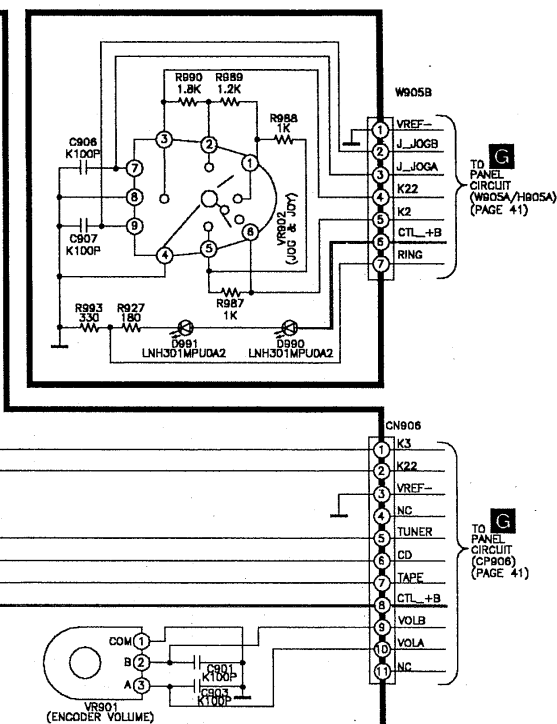


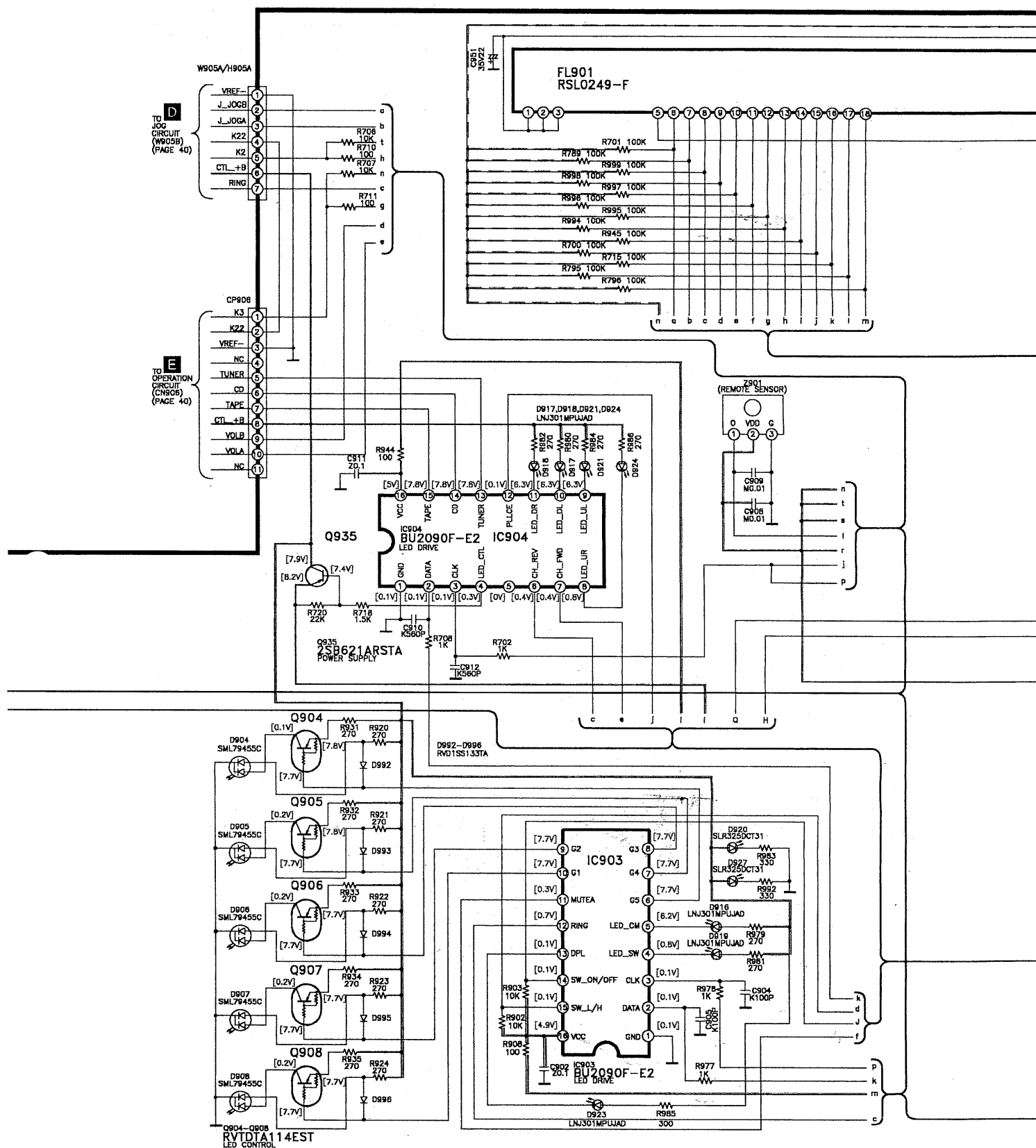


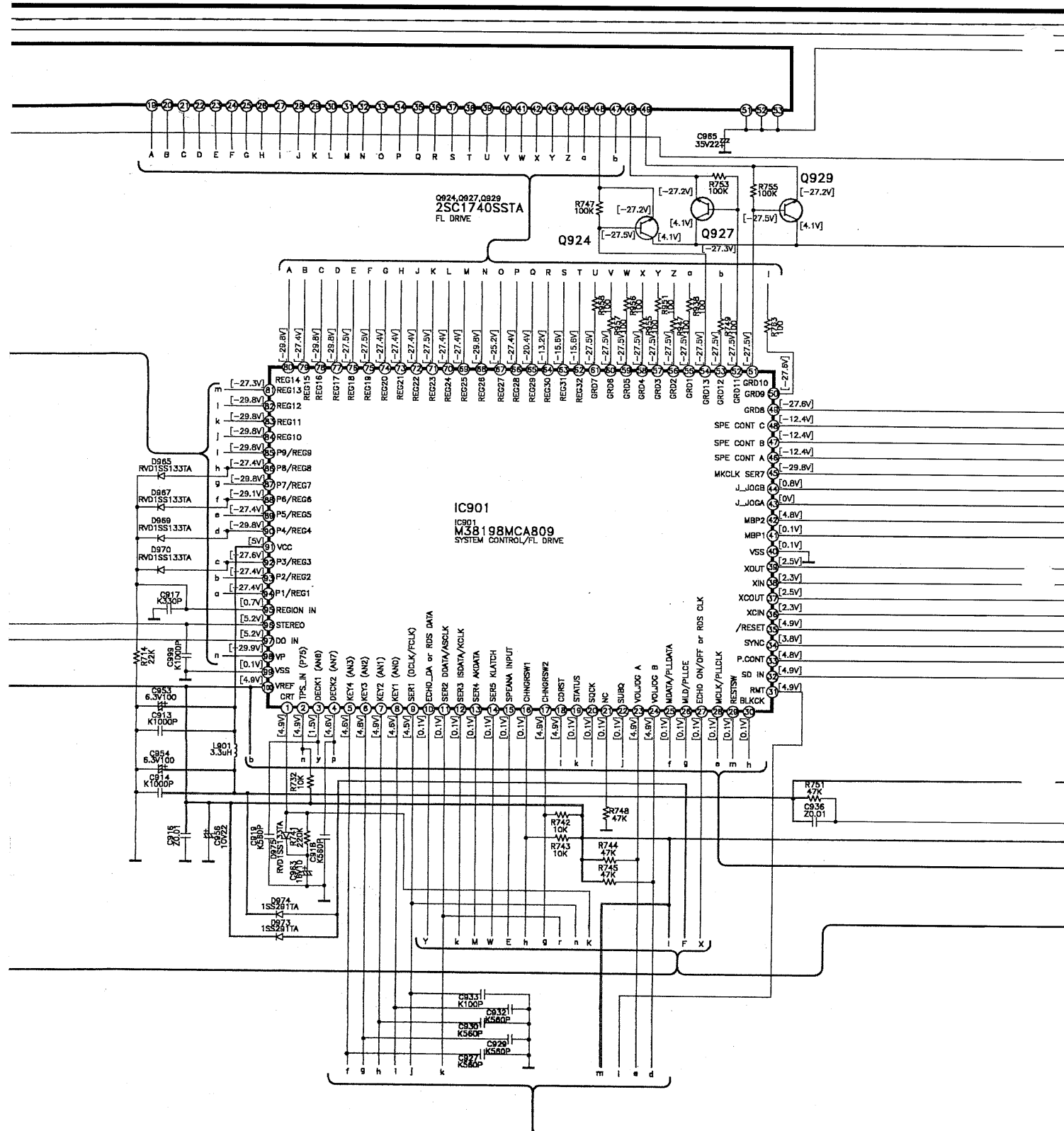
E OPERATION CIRCUIT



D JOG CIRCUIT



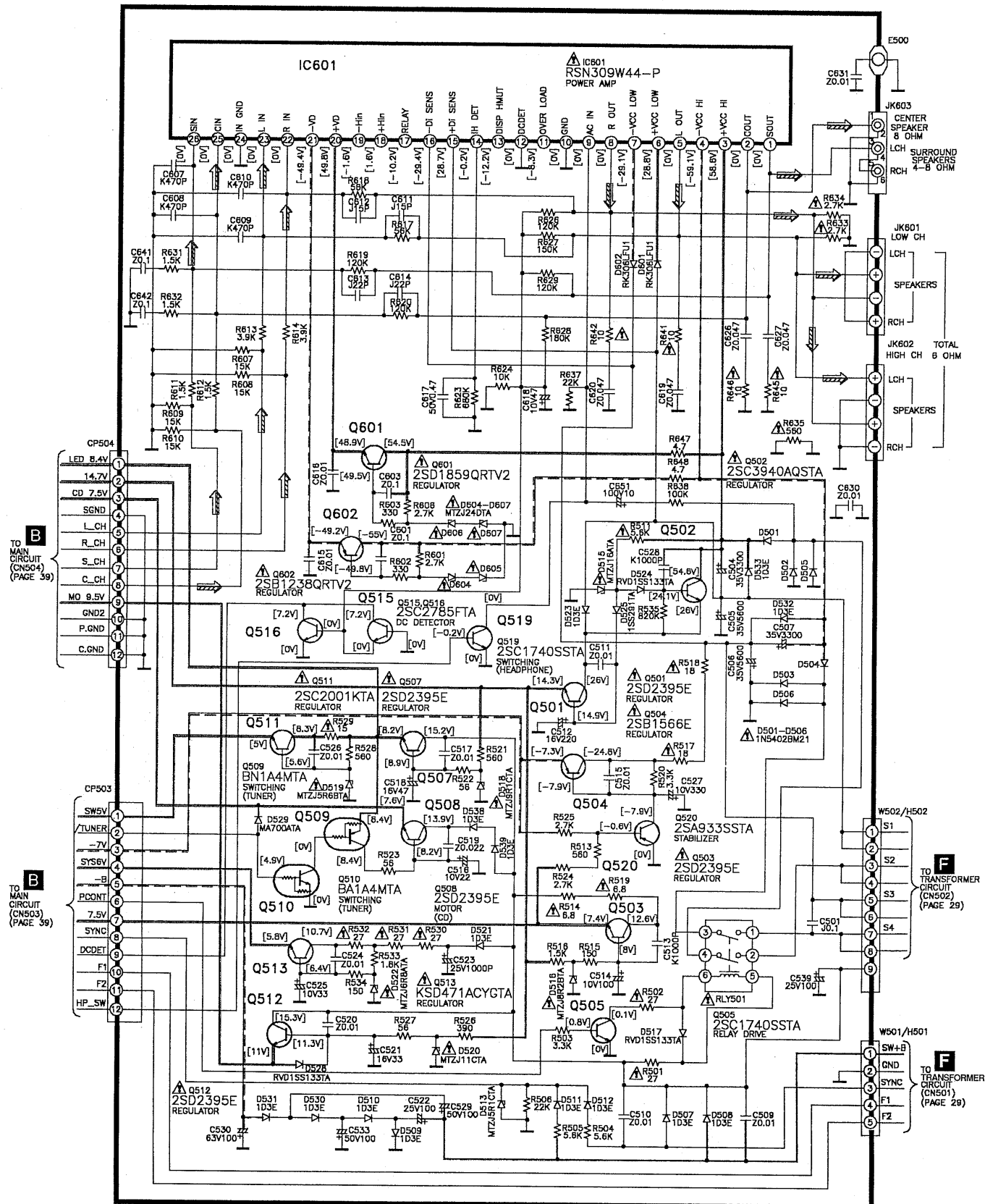
G PANEL CIRCUIT








POWER CIRCUIT



Block Diagram

