5. Alignment and Adjustment

5-1 Reference

1) X-Point (Tracking center) adjustment, "Head switching adjustment" and "NVRAM option setting" can be adjusted with remote control.
2) When replacing the Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the "Head switching adjustment" and "NVRAM option setting".
3) When replacing the cylinder ass'y, be sure to adjust the "X-Point" and "Head switching adjustment".
4) Remote control used for same chassis as a accessory is available for all adjustments.
5) How to adjustment.
   - Press the "SW701" button on Main PCB to set the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.
   - If the adjustment is completed, be sure to turn the power off.

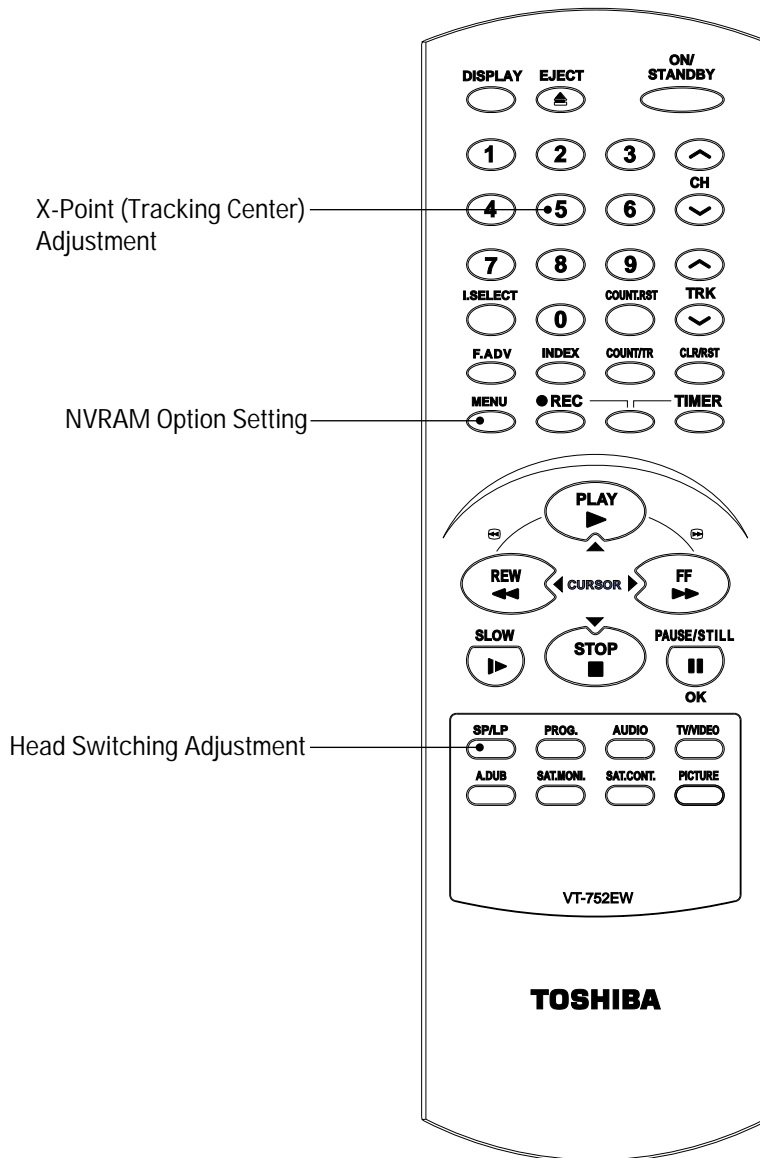### 5-1-1 Location of adjustment button of remote control

Fig. 5-1

5-1-2 SW701 location for adjustment mode setting

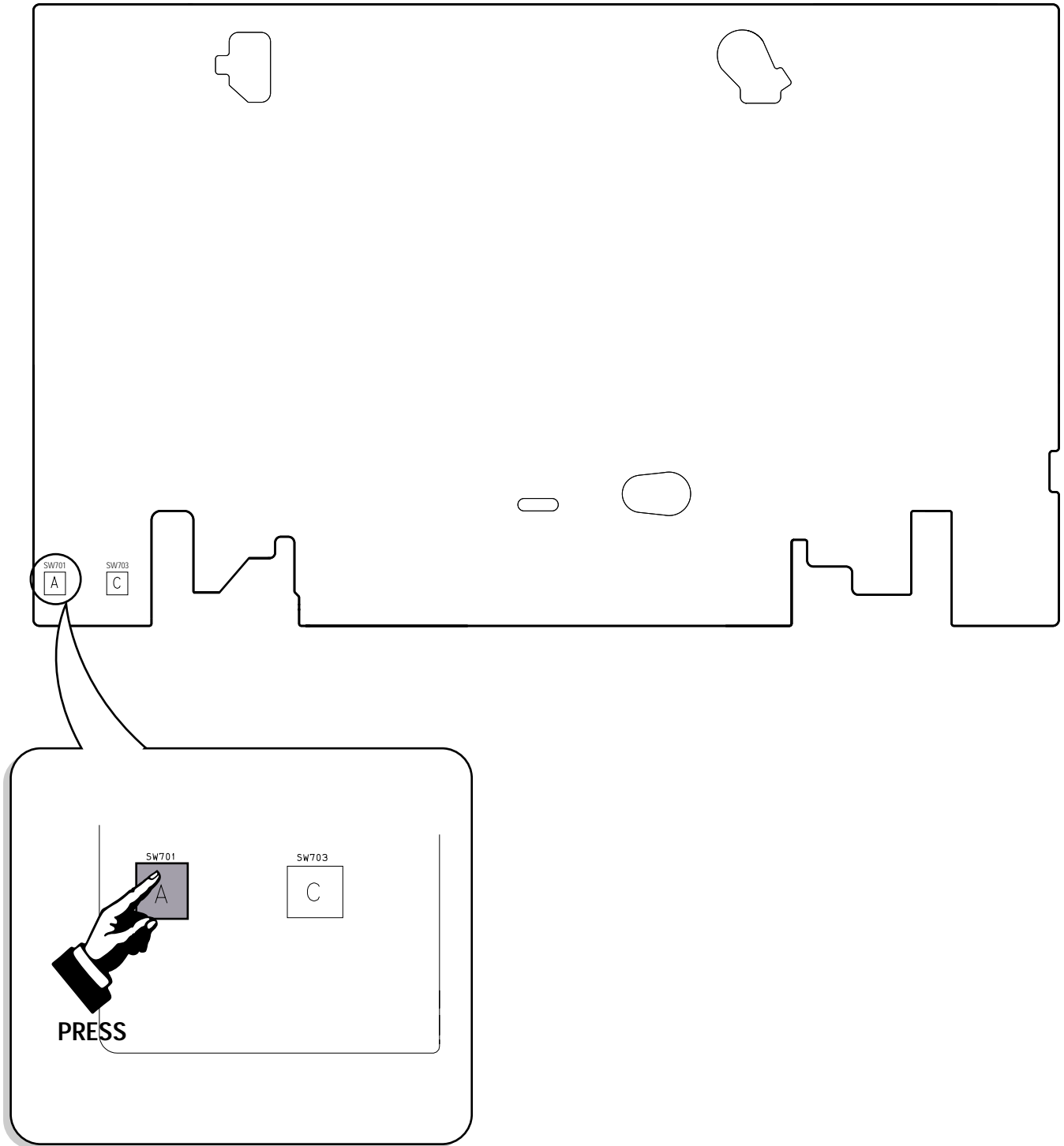SW701   SW703
A   C

SW701   SW703
A   C

PRESS

Fig. 5-2 Main PCB (Top View)

5-3 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Press the "SW701" button on Main PCB with pincers to set the adjustment mode. (See Fig. 5-2)
3) Press the "SP/LP" button of remote control then adjustment is operated automatically. (See Fig. 5-1)
4) Turn the Power off.

5-4 NVRAM Option Setting

1) NVRAM Option is adjusted at production line basically.
2) In case Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding ooption number of the repaired model. (If the option is not set, the unit is not operated.)

1) Press the "SW701" button on Main PCB to set the adjustment mode. (See Fig. 5-2)
2) Press the "MENU" button on the remote control about 5 seconds then option setting display is appeared.
   (See Fig. 5-14)
3) Select the option number (See Table 5-2) of corresponding model with "CURSOR" button on the
   remote control.
4) If selecting the option number is completed, press the "OK" button of remote control.
   (If "OK" button is pressed, the selected number is changes reversed color. ; See Fig. 5-14)
5) Press the "MENU" button of remote control again to store the option number.
   ("PLEASE WAIT" is displayed for a second as shown Fig. 5-15 and this setting is completed.)
6) Turn the Power off.
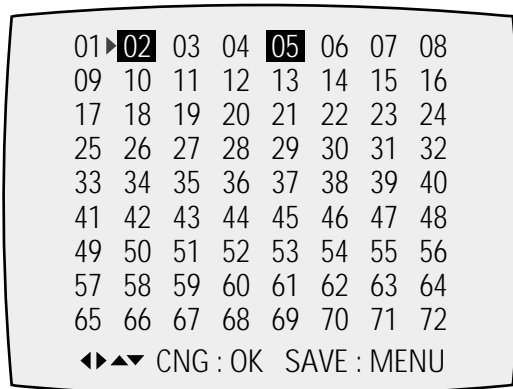
Fig. 5-14
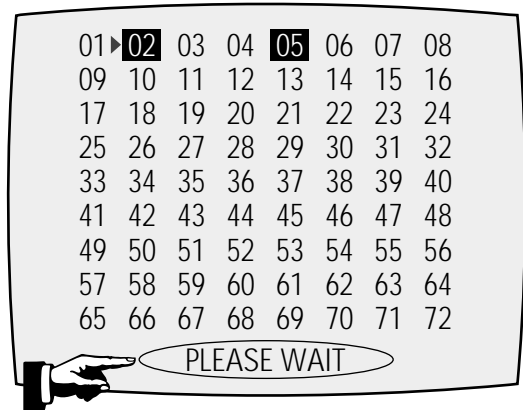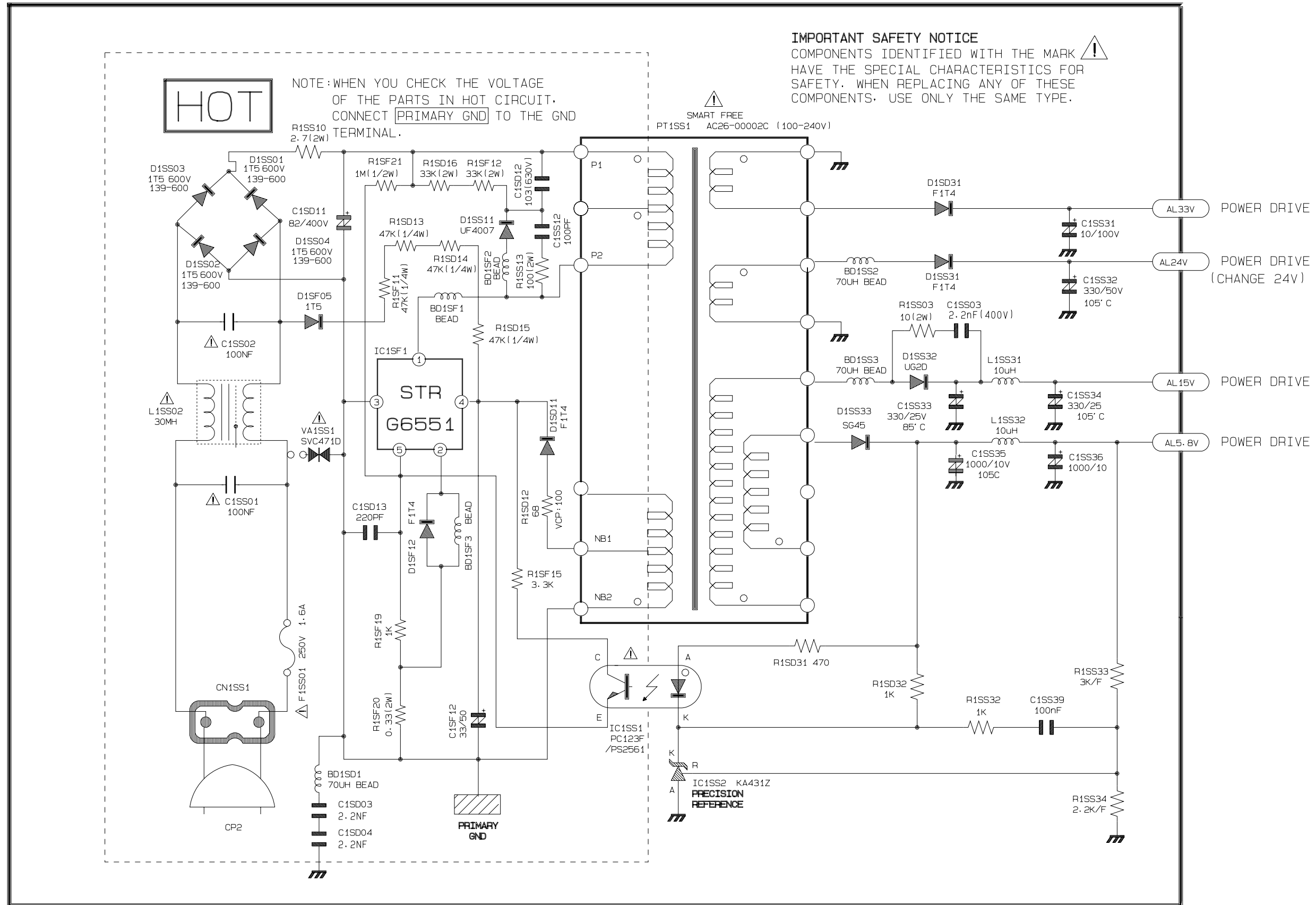
Fig. 5-15
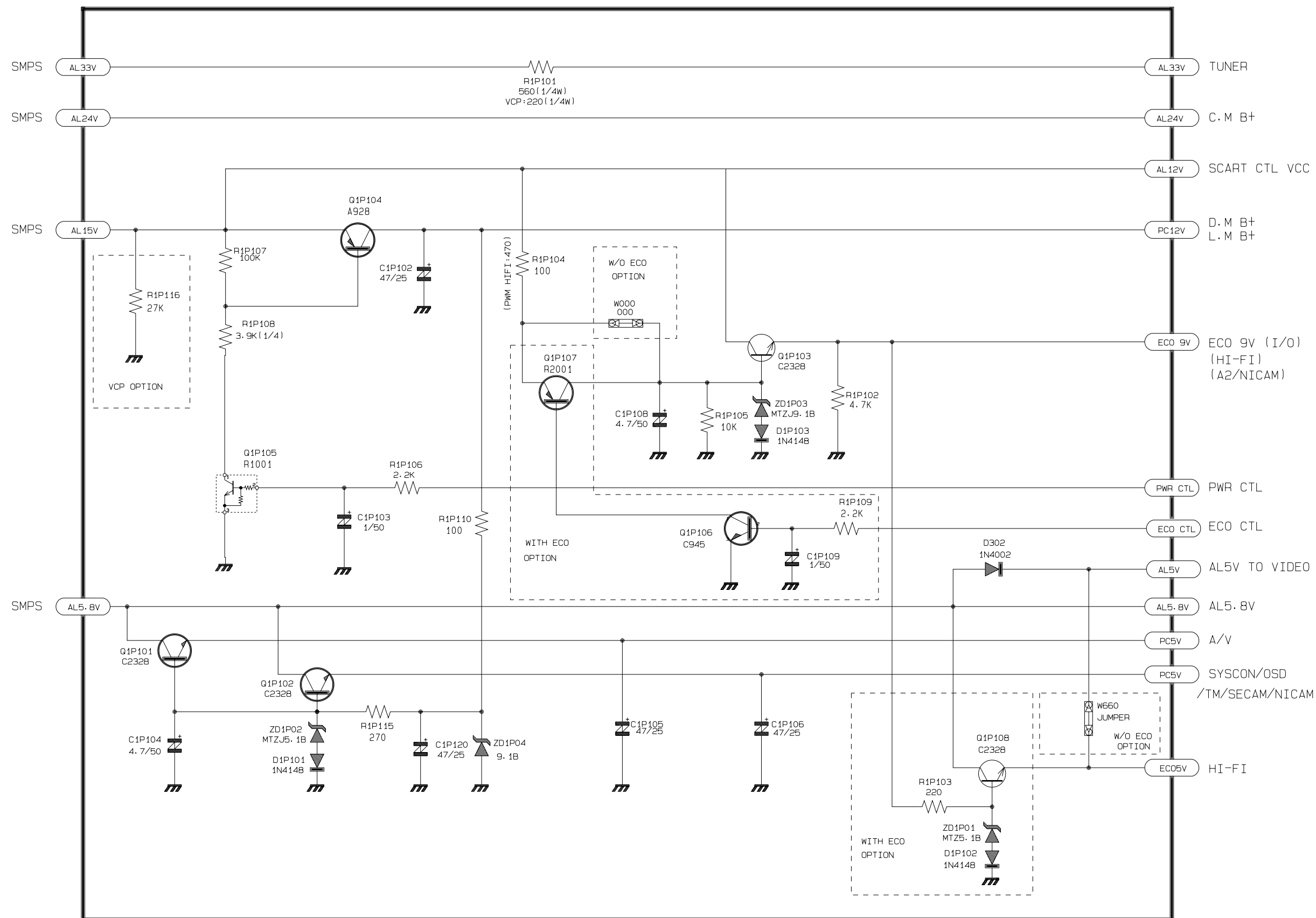
<Table 5-2>

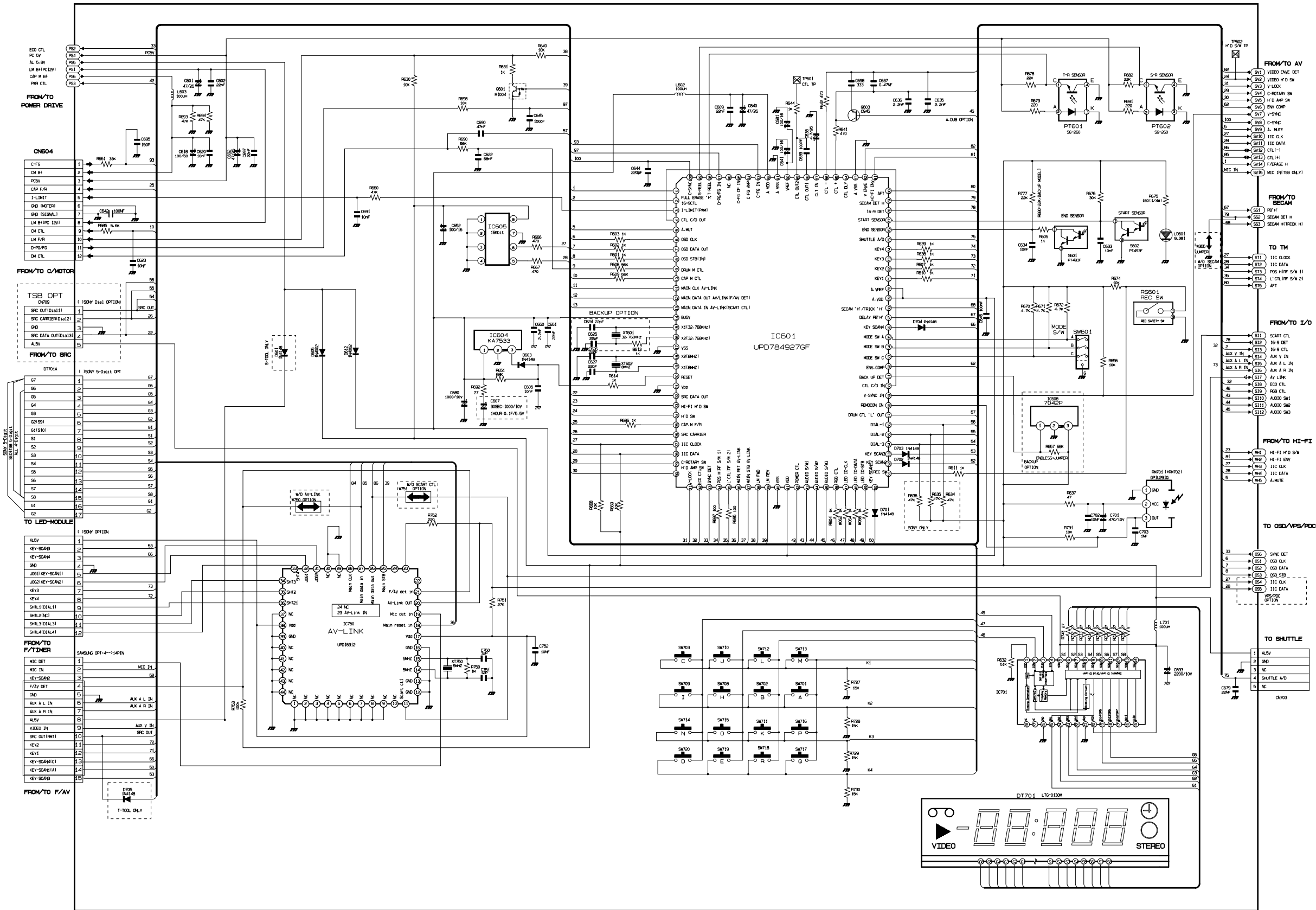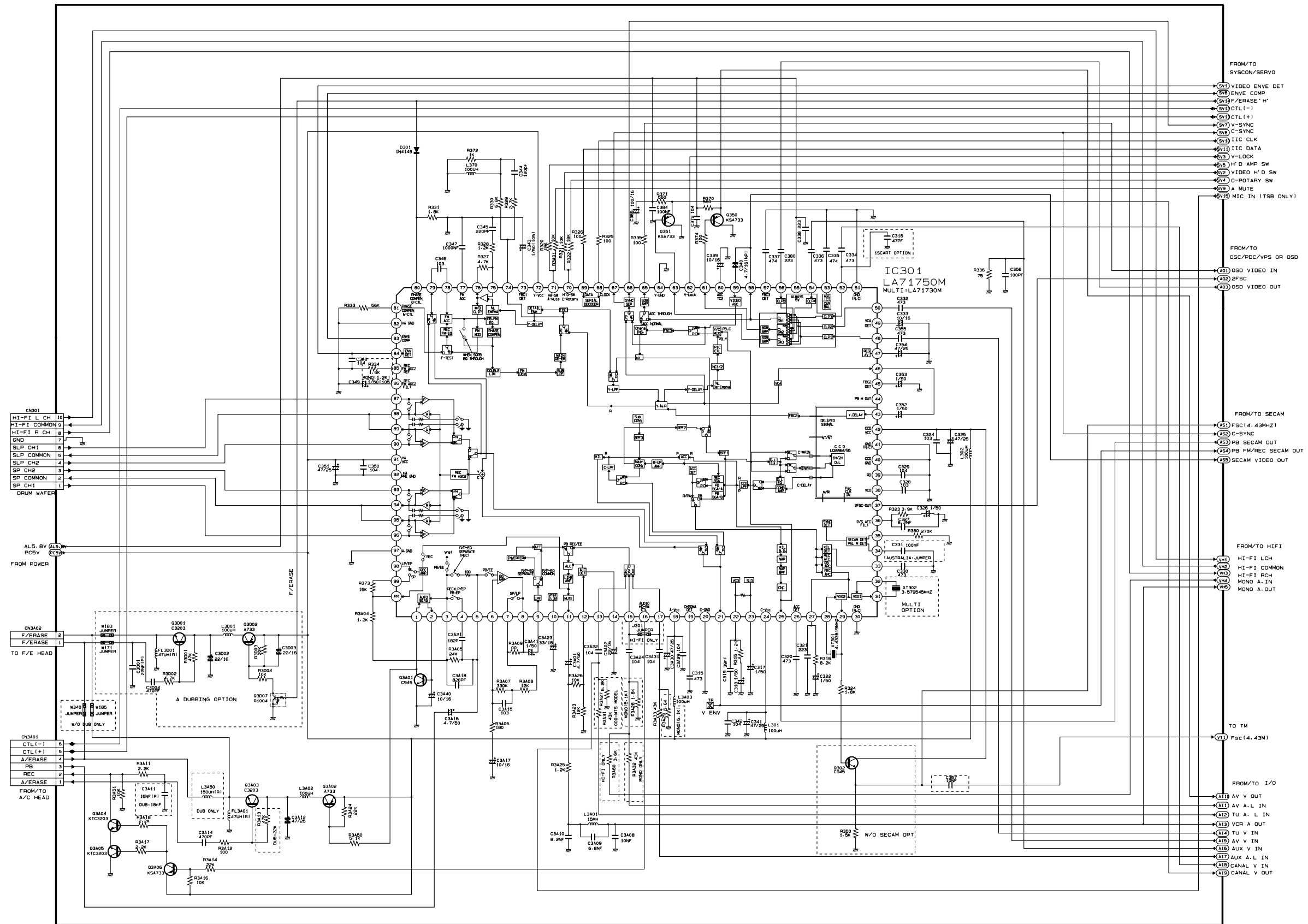| MODEL	OPTION NUMBER
V-E59	6, 7, 8, 9, 10, 12, 15, 20, 22, 25, 27, 29, 33, 35, 38, 42, 44, 49, 51, 52, 53, 57, 60, 61, 62, 63
V-E39	9, 10, 12, 20, 22, 25, 27, 33, 35, 38, 42, 44, 49, 51, 52, 53, 57, 60, 61, 62, 63
V-E29	10, 12, 20, 22, 25, 27, 33, 35, 38, 42, 44, 49, 51, 52, 53, 57, 60, 61, 62, 63

10-1 S.M.P.S. (Free Voltage)

HOT

NOTE:WHEN YOU CHECK THE VOLTAGE
OF THE PARTS IN HOT CIRCUIT,
CONNECT PRIMARY GND TO THE GND
TERMINAL.

IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED WITH THE MARK ⚠
HAVE THE SPECIAL CHARACTERISTICS FOR
SAFETY. WHEN REPLACING ANY OF THESE
COMPONENTS, USE ONLY THE SAME TYPE.

SMART FREE
PT1SS1 AC26-00002C (100-240V)

R1SS10
2.7(2W)

D1SS03
1T5 600V
139-600

D1SS01
1T5 600V
139-600

R1SF21
1M(1/2W)

R1SD16
33K(2W)

R1SF12
33K(2W)

C1SD12
103(630V)

C1SD11
82/400V

R1SD13
47K(1/4W)

D1SS11
UF4007

C1SS12
100PF

D1SS04
1T5 600V
139-600

D1SS02
1T5 600V
139-600

R1SD14
47K(1/4W)

BD1SF2
BEAD

R1SS13
100(2W)

D1SF05
1T5

R1SF11
47K(1/4W)

BD1SF1
BEAD

R1SD15
47K(1/4W)

C1SS02
100NF

L1SS02
30MH

IC1SF1

STR
G6551

VA1SS1
SVC471D

D1SD11
F1T4

C1SS01
100NF

C1SD13
220PF

D1SF12
F1T4

BD1SF3 BEAD

R1SD12
68
VCP:100

R1SF15
3.3K

NB1

NB2

F1SS01 250V 1.6A

R1SF19
1K

R1SF20
0.33(2W)

C1SF12
33/50

BD1SD1
70UH BEAD

C1SD03
2.2NF

C1SD04
2.2NF

CN1SS1

CP2

PRIMARY
GND

P1

P2

D1SD31
F1T4

C1SS31
10/100V

AL33V POWER DRIVE

BD1SS2
70UH BEAD

D1SD31
F1T4

C1SS32
330/50V
105°C

AL24V POWER DRIVE
(CHANGE 24V)

R1SS03
10(2W)

C1SS03
2.2nF(400V)

BD1SS3
70UH BEAD

D1SS32
UG2D

L1SS31
10uH

C1SS34
330/25
105°C

AL15V POWER DRIVE

D1SS33
SG45

C1SS33
330/25V
85°C

L1SS32
10uH

C1SS35
1000/10V
105C

C1SS36
1000/10

AL5.8V POWER DRIVE

C
A
R1SD31 470

R1SD32
1K

R1SS33
3K/F

E
IC1SS1
PC123F
/PS2561

K

K   R

A

IC1SS2 KA431Z
PRECISION
REFERENCE

R1SS32
1K

C1SS39
100nF
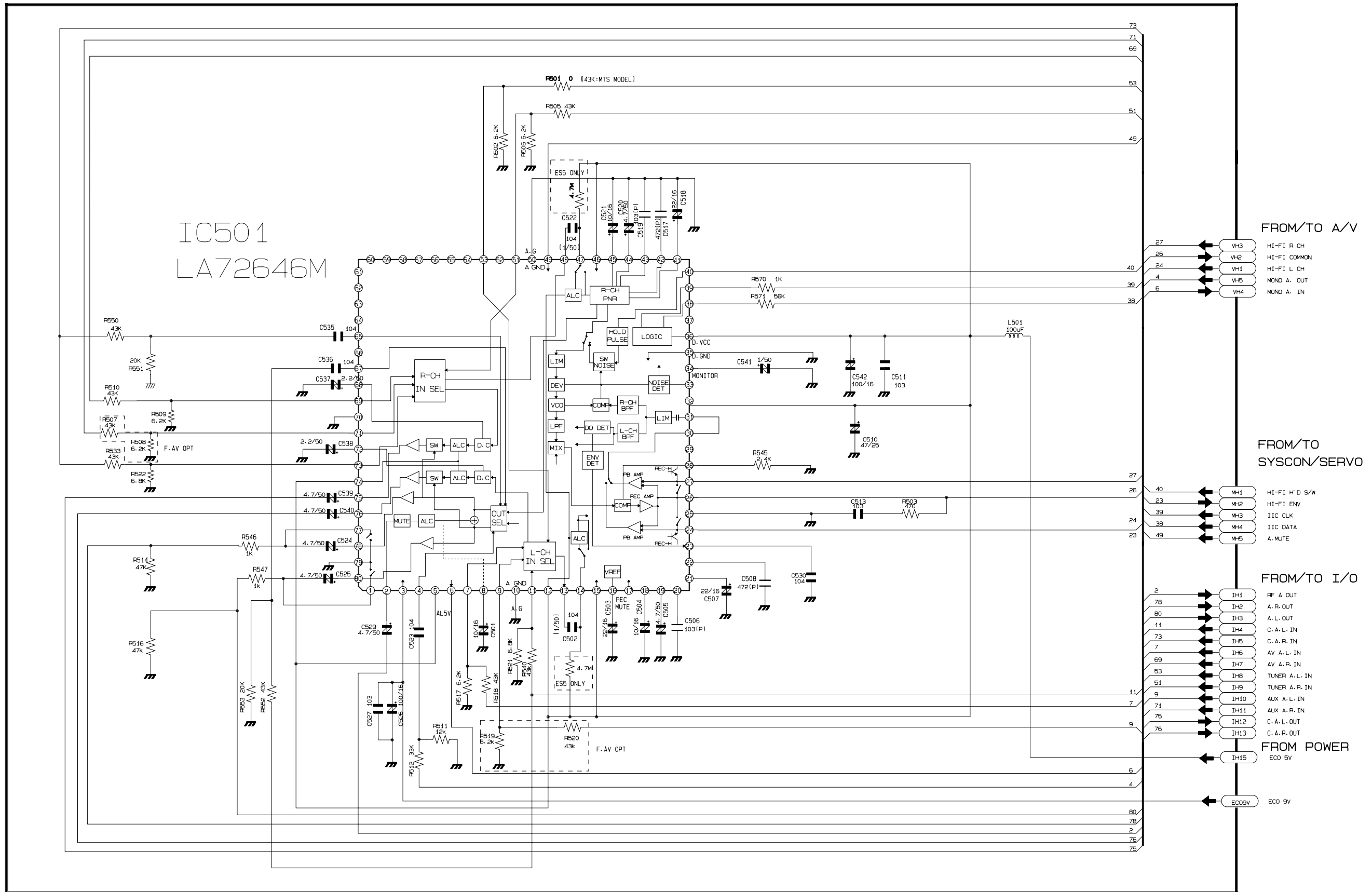
R1SS34
2.2K/F

10-2 Power
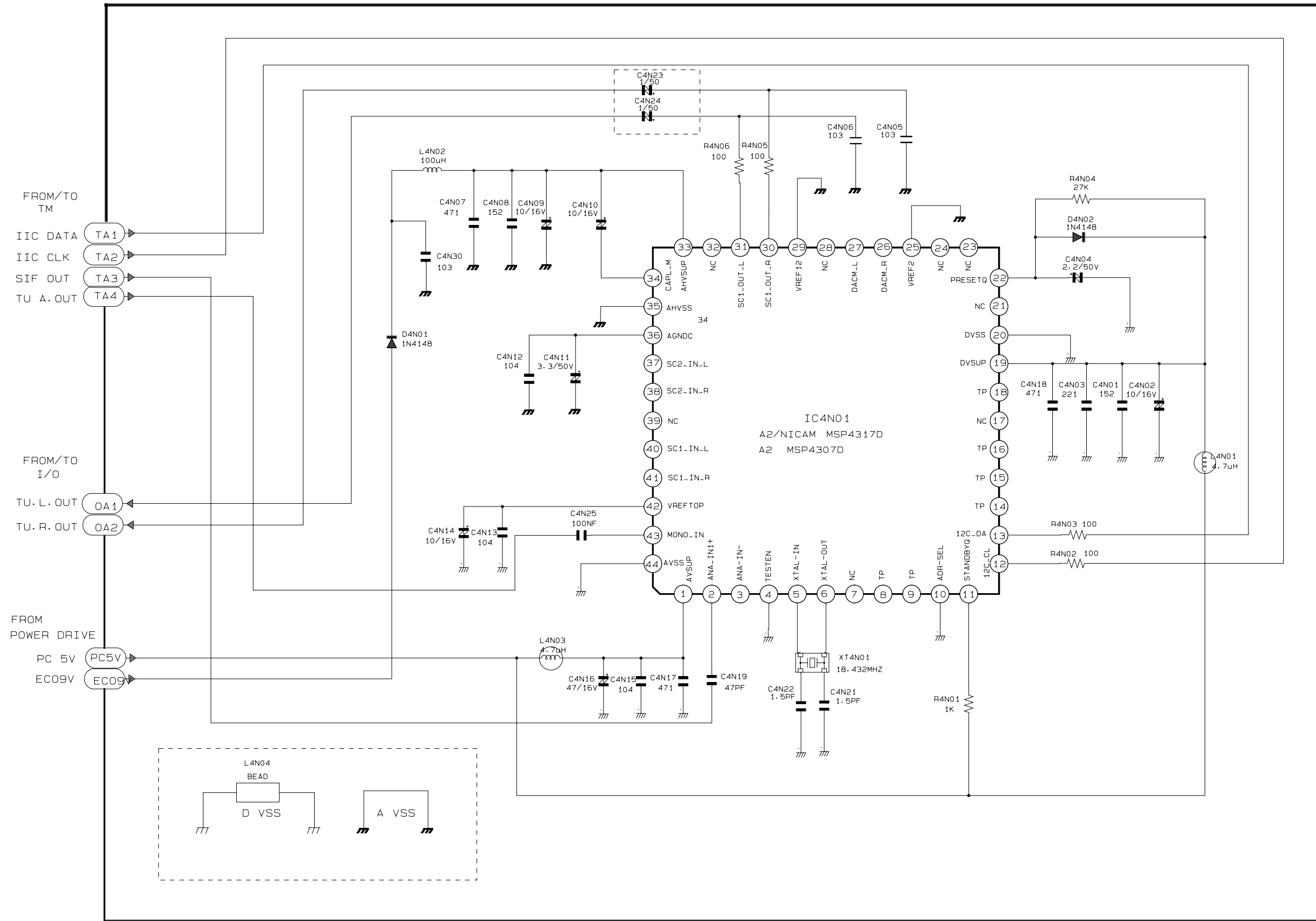
10-3 System Control/Servo/Display

10-4 Audio/Video

10-5 Hi-Fi (For V-E59 Only)

IC501
LA72646M

FROM/TO A/V

27	VH3	HI-FI R CH
26	VH2	HI-FI COMMON
24	VH1	HI-FI L CH
4	VH5	MONO A. OUT
6	VH4	MONO A. IN

FROM/TO
SYSCON/SERVO

40	MH1	HI-FI H'D S/W
23	MH2	HI-FI ENV
39	MH3	IIC CLK
38	MH4	IIC DATA
49	MH5	A.MUTE

FROM/TO I/O

2	IH1	RF A OUT
78	IH2	A.R.OUT
80	IH3	A.L.OUT
11	IH4	C.A.L.IN
73	IH5	C.A.R.IN
7	IH6	AV A.L.IN
69	IH7	AV A.R.IN
53	IH8	TUNER A.L.IN
51	IH9	TUNER A.R.IN
11	IH10	AUX A.L.IN
7	IH11	AUX A.R.IN
75	IH12	C.A.L.OUT
9	IH13	C.A.R.OUT

FROM POWER

	IH15	ECO 5V
	ECO9V	ECO 9V

10-6 TM-Block

10-7 NICAM (For V-E59 Only)

10-8 OSD/VPS/PDC

IC6P01

LC74776-9821 256F PDC(EC·SONY)
LC74759-9820 256F OSD(M/EAST·CIS)
LC74775NM-9808 128F PDC(EC)
LC74758-9779 128F OSD(EC)
LC74783-9745 128F OSD (VCP)
LC74783-9735 128F OSD (SONY ASIA)

10-9 Input-Output

10-10 Sub F A/V (For V-E59 Only)