

AV28S2EKGR / AV28S2EKBL
AV28S2EIGR / AV28S2EIBL

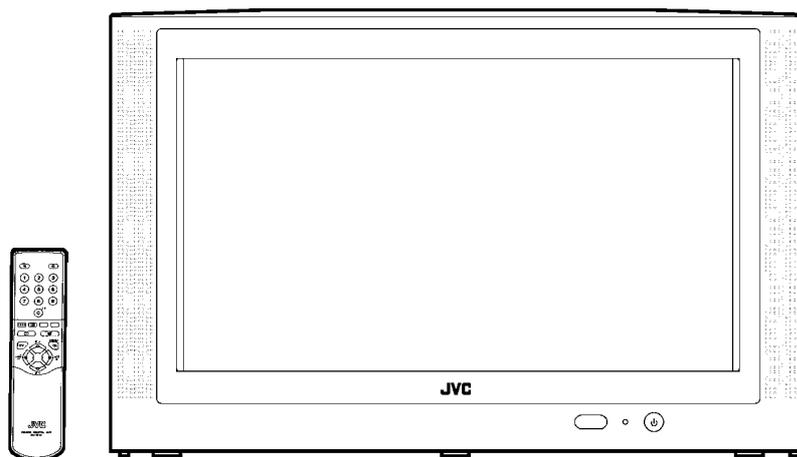
JVC

SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS
JK

AV28S2EKGR / AV28S2EKBL
AV28S2EIGR / AV28S2EIBL



SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. There are 2 ways of adjusting this TV: One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
2. The **setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
7. Preparation for adjustment (presetting):
Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

- Setting position

PICTURE MODE (VSM)	NORMAL
SLEEP TIMER	OFF
BALANCE	CENTER
ECO	OFF
ZOOM	PANORAMIC

MEASURING INSTRUMENT AND FIXTURES

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / NTSC]
4. Remote control unit

ADJUSTMENT ITEMS

- Checking items.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- H. BLANKING ADJUSTMENT.
- AUDIO circuit adjustment. (Do not adjust)

BASIC OPERATION SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

- (1) **1. IF** This mode adjusts the setting values of the IF circuit.
- (2) **2.V/C** This mode adjusts the setting values of the VIDEO / CHROMA circuit.
- (3) **3.AUDIO** This mode adjusts the setting values of the multiplicity SOUND circuit.
- (4) **4.DEF** This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below.
 - REGULAR (50/60Hz)
 - PANORAMIC (50/60Hz)
 - 14:9 ZOOM (50/60Hz)
 - 16:9 ZOOM (50/60Hz)
 - 16:9 ZOOM SUB TITLE (50/60Hz)
 - FULL (50/60Hz)
- (5) **5.VSM PRESET** This mode adjusts the initial setting values of COOL,NOMAL and WARM.
 (VSM : Video Status Memory)
- (6) **6.VPS** This mode shows the monitor of the VPS and PDC. **(Do not adjust)**.
 (VPS : Video Program System, PDC : Program Delivery Code)
- (7) **7.AUTO PROGRAM** By turning the power switch on, you can get the state of AUTO PROGRAM. **(Do not adjust)**

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

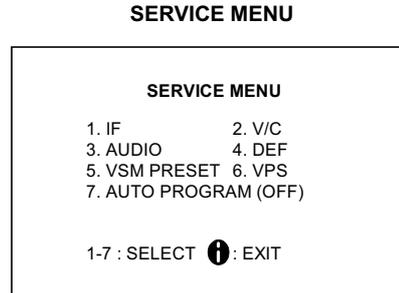


Fig.1

(2) Selection of SUB MENU SCREEN

Press one of keys 1~7 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

- 1. IF
- 2. V / C
- 3. AUDIO
- 4. DEF.
- 5. VSM PRESET
- 6. VPS
- 7. AUTO PROGRAM

NEME OF REMOTE CONTOROL KEY

Names of key	key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION +/-	

Fig.2

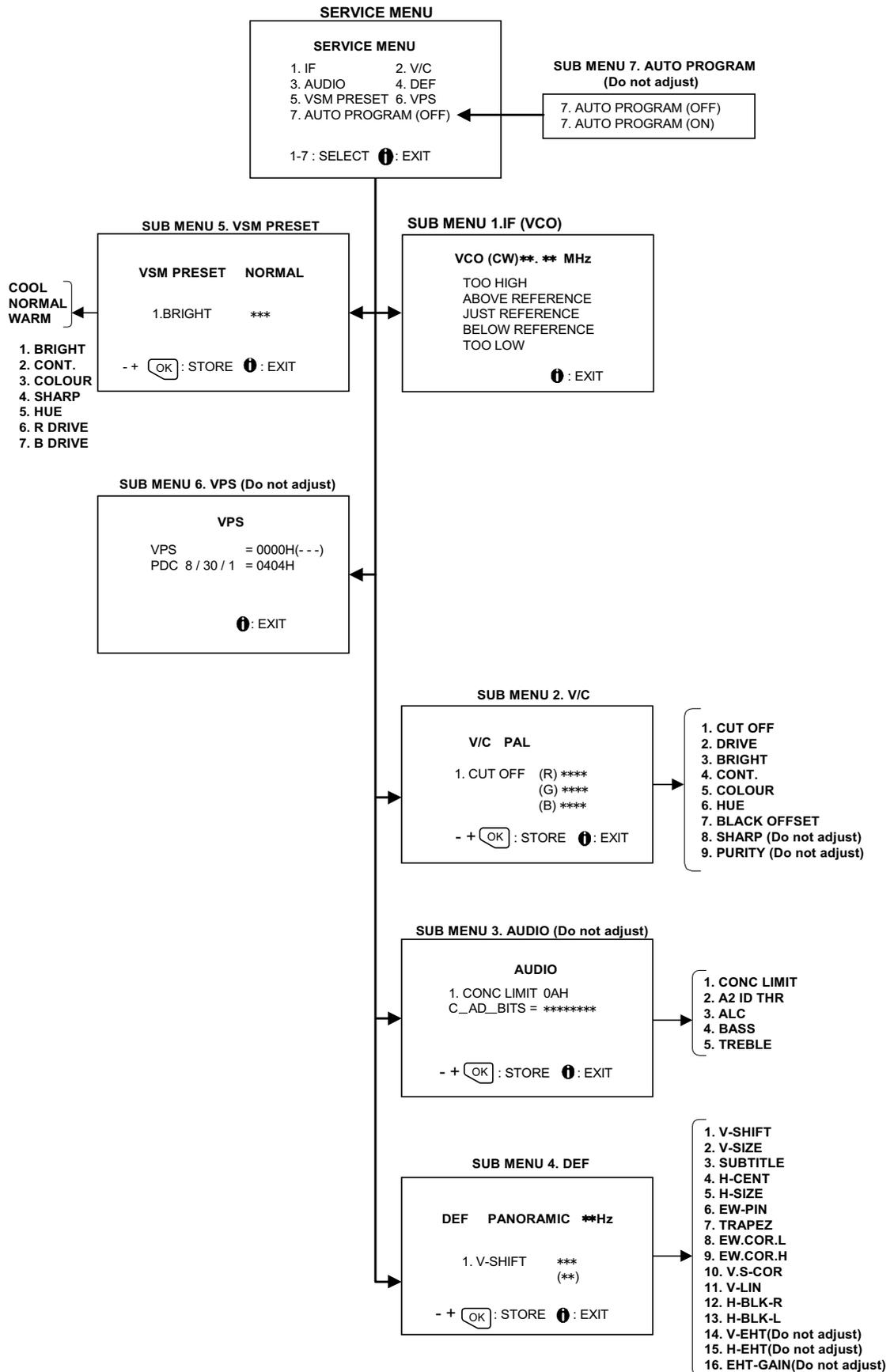


Fig. 3 SUB MENU SCREEN

(3) **Method of Setting**

1) Method of Setting **1.IF**

[VCO]

- ① 1 Key Select 1.IF.
- ② The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.
- ③ INFORMATION Key Return to the SERVICE MENU screen.

2) Method of setting **2.V/C, 3.AUDIO, 4.DEF** and **5.VSM PRESET**.

- ① 2~5 Key Select one from **2. V/C, 3. AUDIO, 4. DEF** and **5. VSM PRESET**.
- ② FUNCTION UP/DOWN Key Select setting items.
- ③ FUNCTION +/- Set (adjust) the setting values of the setting items.
(Use the number keys of the REMOTE CONTROL UNIT for setting of WHITE BALANCE.
For the setting, refer to each item concerned.)
- ④ MENU Key Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -
if you do, the values will not be stored in memory.)
- ⑤ INFORMATION Key Return to the **SERVICE MENU** screen.

3) Method of setting **6.VPS** and **7.AUTO PROGRAM**.

6.VPS This mode displayed monitor of VPS systems. **(Do not adjust)**

7.AUTO PROGRAM When the MAIN POWER is turned on with the state of AUTO PROGRAM ON, you get a mode that initializes every existing set value including language selection. Because this mode is set at the factory upon completion of the adjustment, you need not to use it for service. **(Do not adjust in this mode.)**

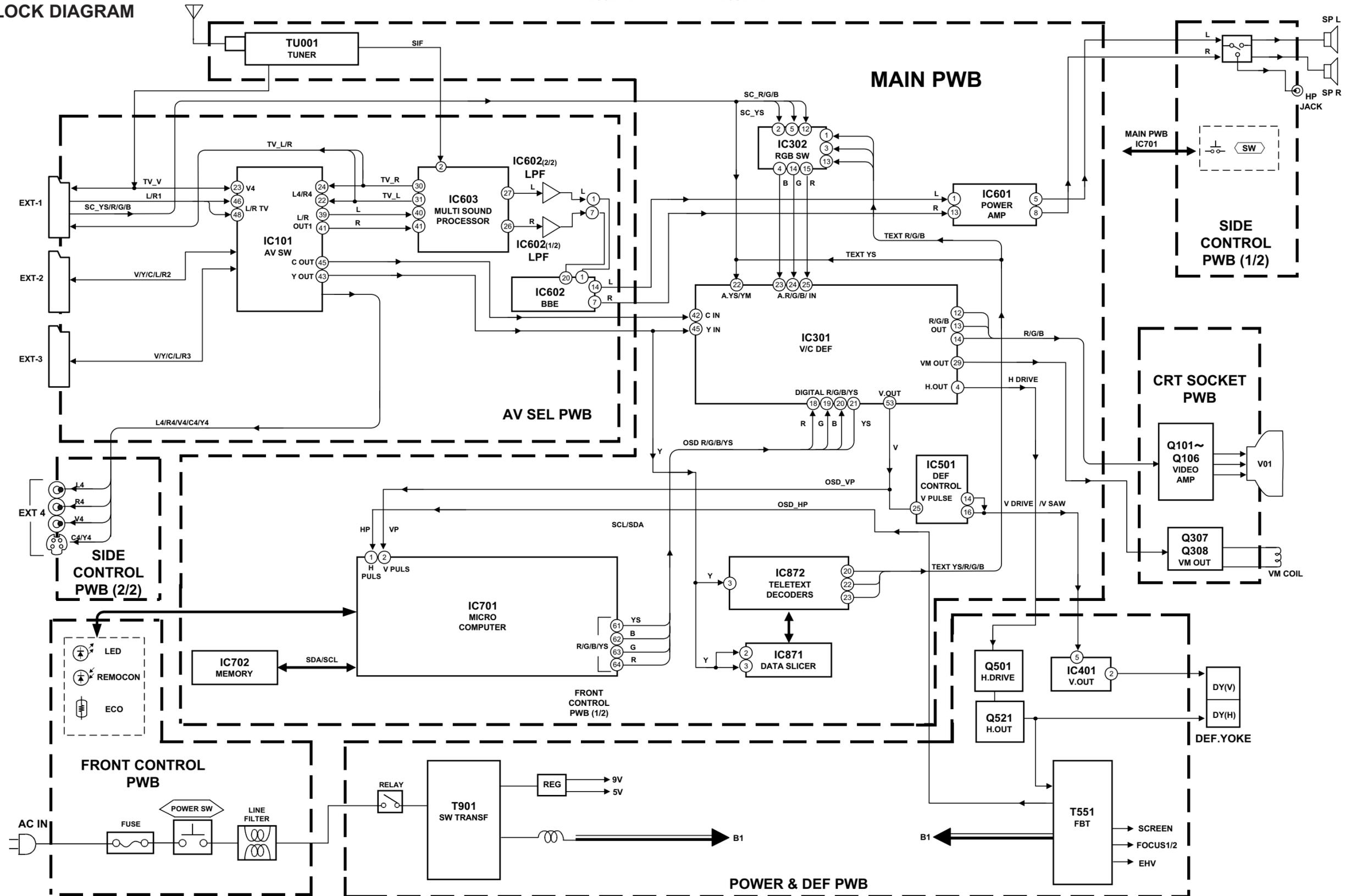
(4) **Release of SERVICE MENU**

- 1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

BLOCK DIAGRAM

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AV28S2EKBL
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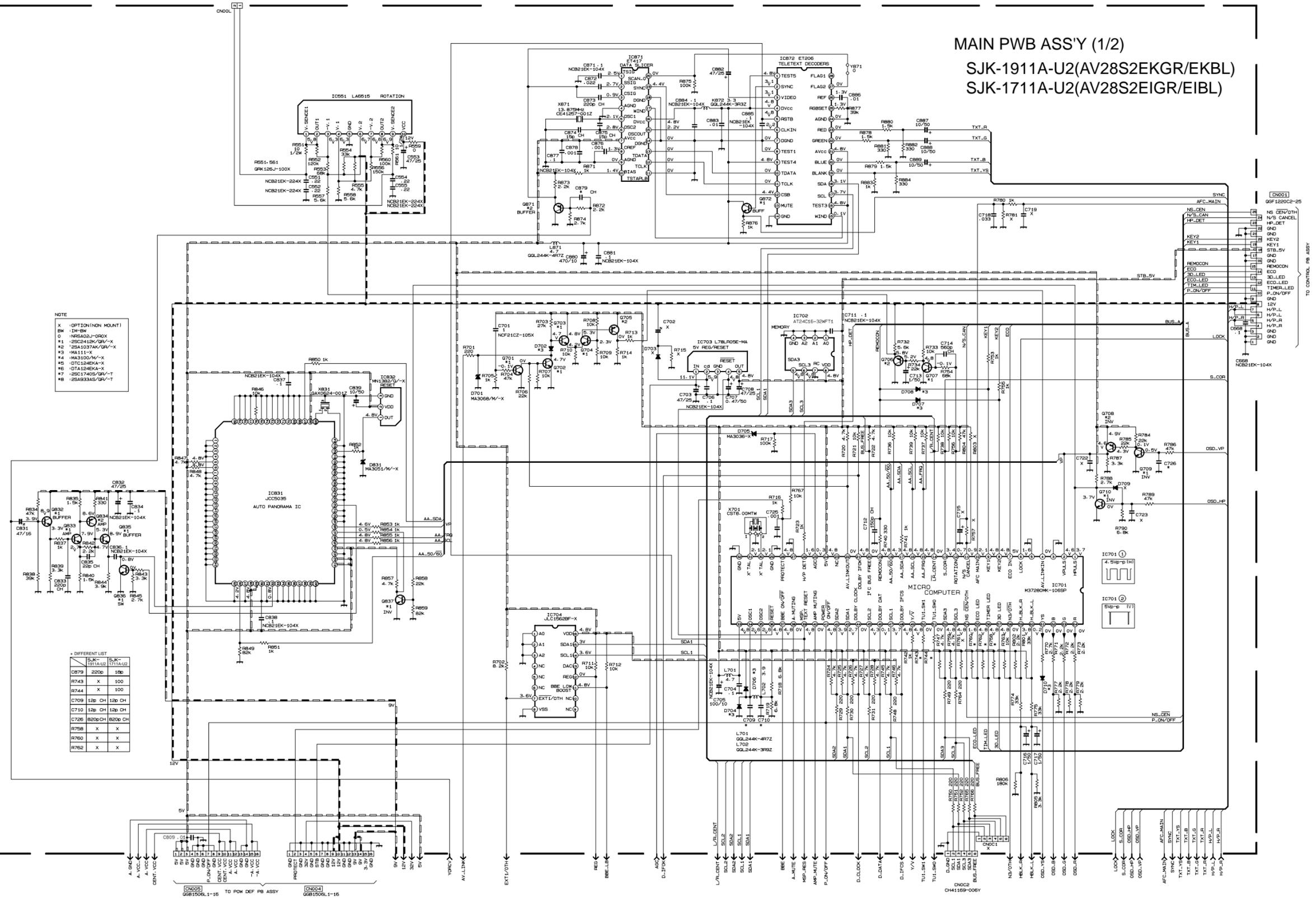
AV28S2EKGR
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CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM

AV28S2EKGR AV28S2EKBL
 AV28S2EIGR AV28S2EIBL
 AV28S2EIBL AV28S2EIBL

MAIN PWB ASS'Y (1/2)
 SJK-1911A-U2(AV28S2EKGR/EKBL)
 SJK-1711A-U2(AV28S2EIGR/EIBL)



NOTE
 X OPT10N (INDN MOUNT)
 BW 12H-BW
 O NRSAG2J-OROX
 #1 25C2412K/GRV-X
 #2 25A1037AK/GRV-X
 #3 MA111-X
 #4 MA330M-X
 #5 DT124EKA-X
 #6 DT124EKA-X
 #7 25C17462/GRV-T
 #8 25A933AS/GRV-T

* DIFFERENT LIST

Part No.	SJK-1911A-U2	SJK-1711A-U2
C879	220p	10p
R743	X	100
R744	X	100
C709	12p CH	12p CH
C710	12p CH	12p CH
C726	820p CH	820p CH
R758	X	X
R760	X	X
R762	X	X

No.51777

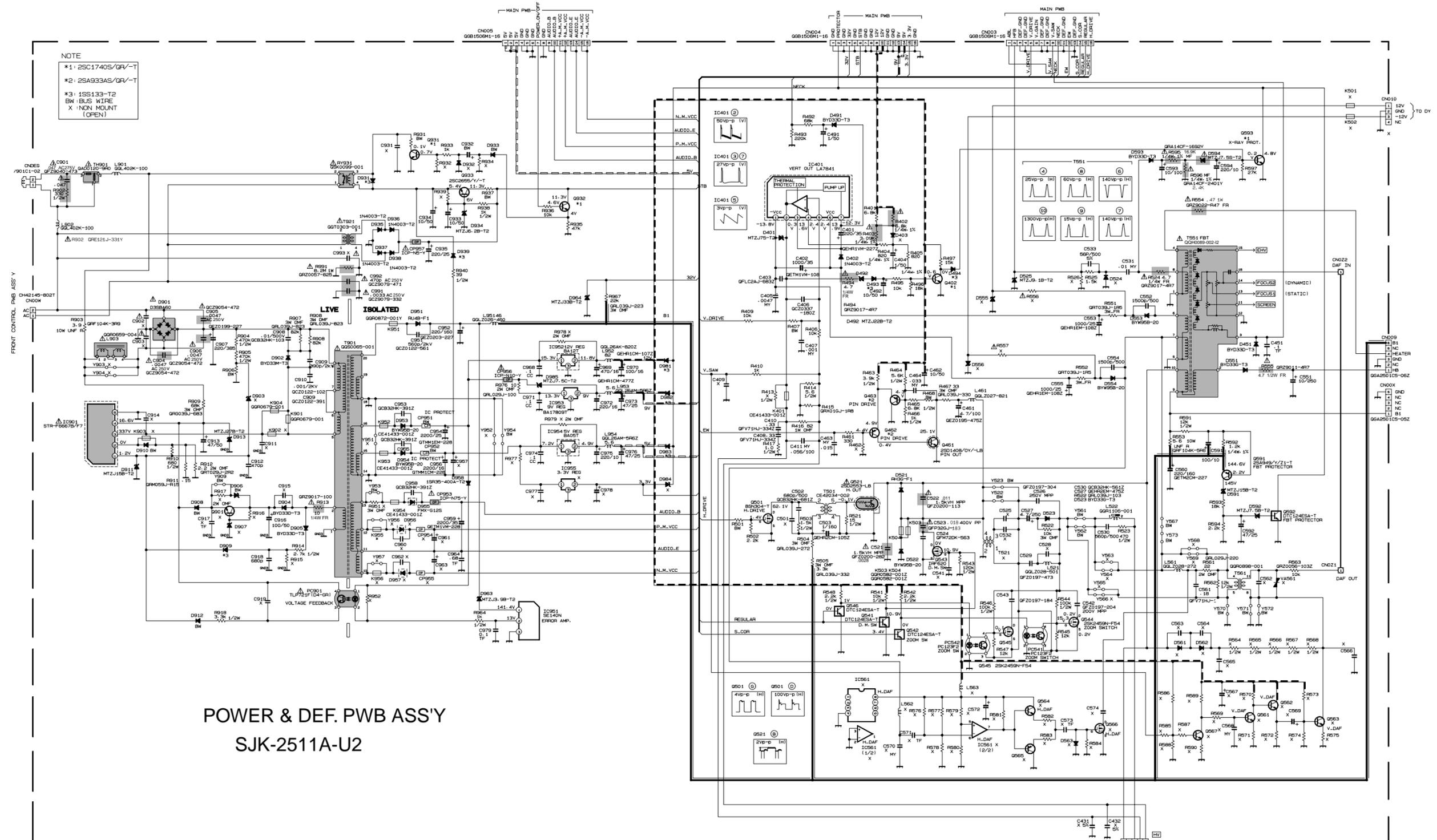
2-5

2-6

No.51777

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POWER & DEF PWB CIRCUIT DIAGRAM

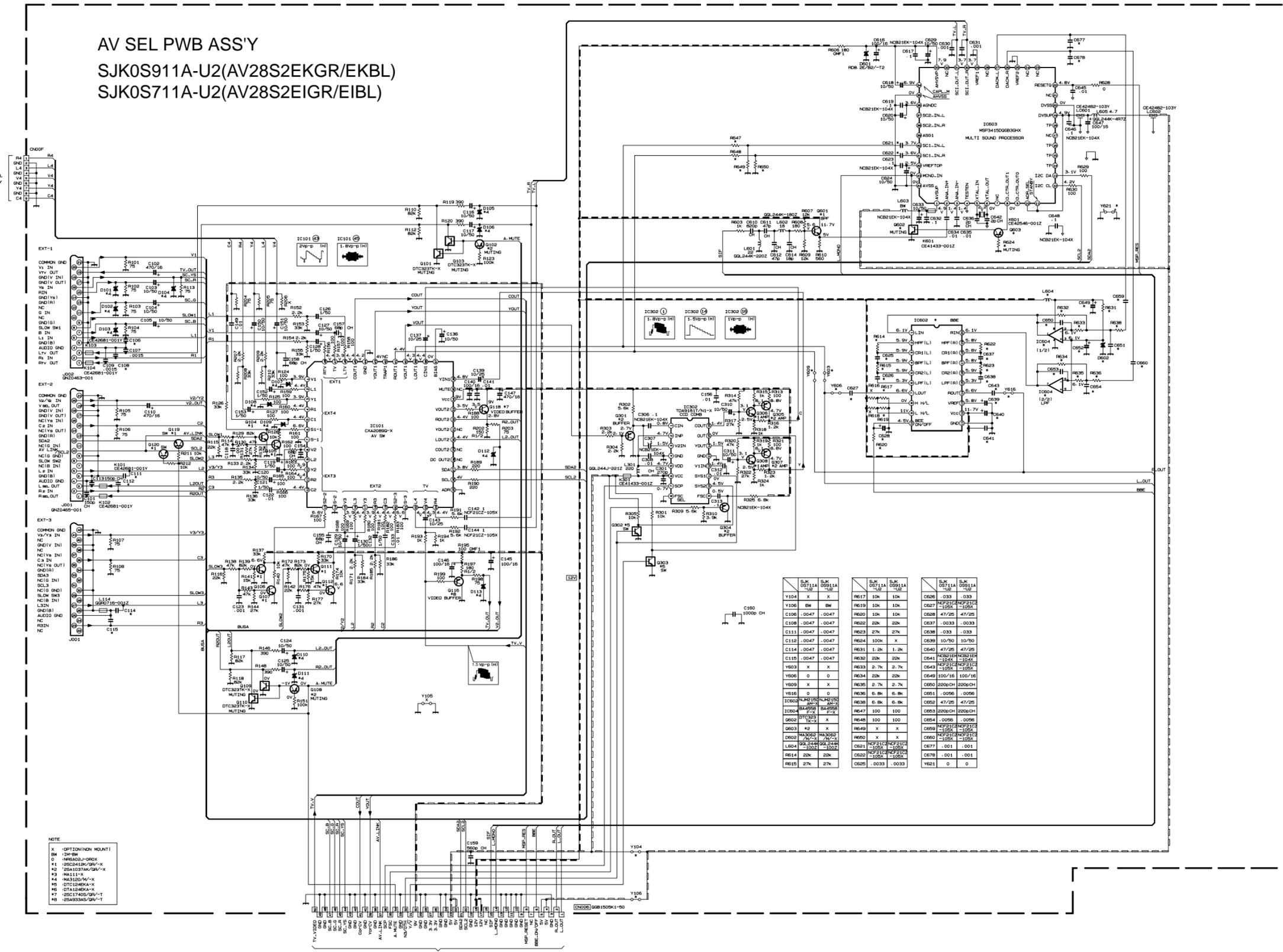


POWER & DEF. PWB ASS'Y
 SJK-2511A-U2

AV28S2EKGR
 AV28S2EKBL
 AV28S2EIGR
 AV28S2EIBL

AV28S2EKGR
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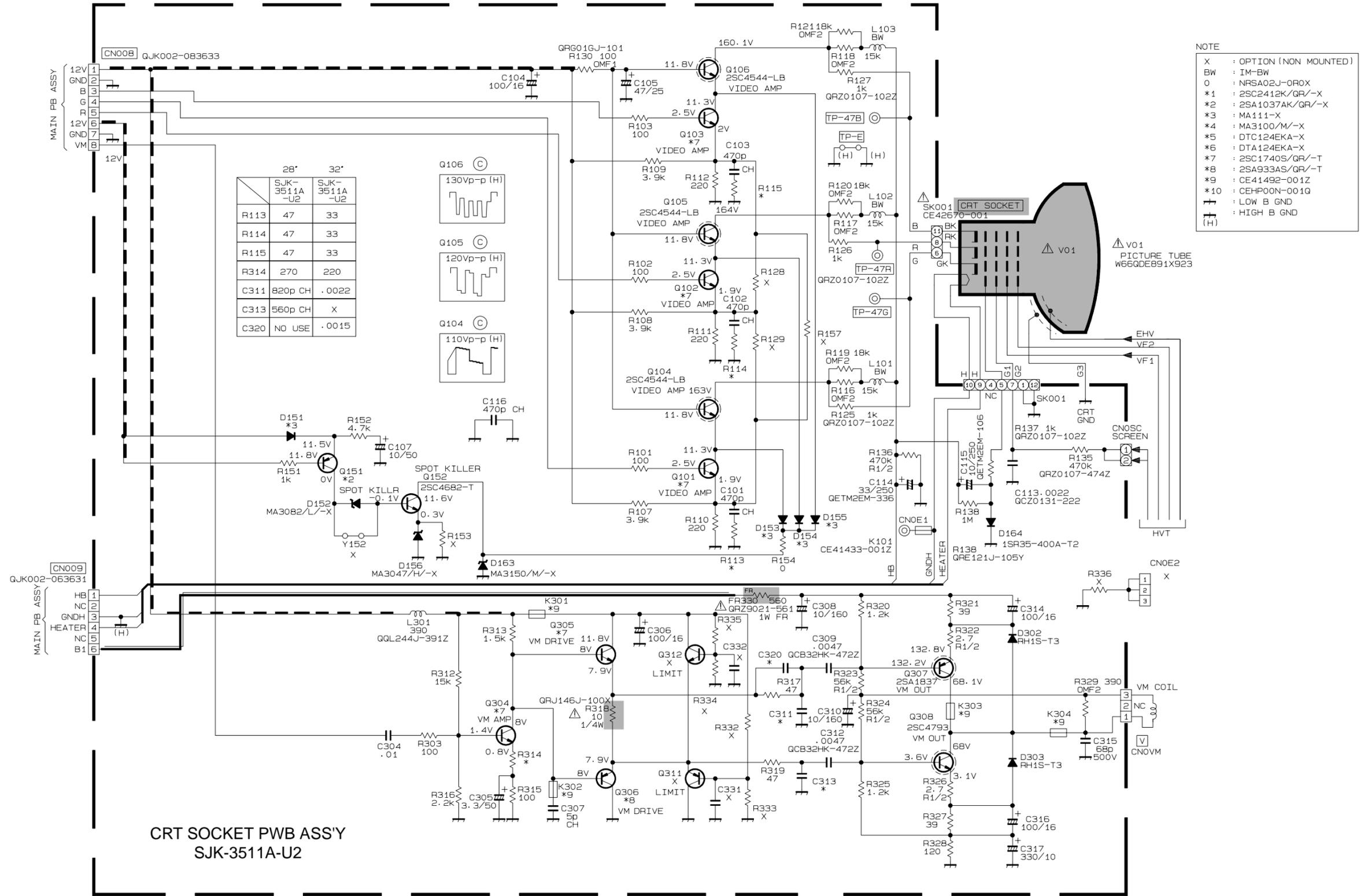
AV SEL. PWB CIRCUIT DIARAM



CRT SOCKET PWB CIRCUIT DIAGRAM

AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL



CRT SOCKET PWB ASS'Y
SJK-3511A-U2