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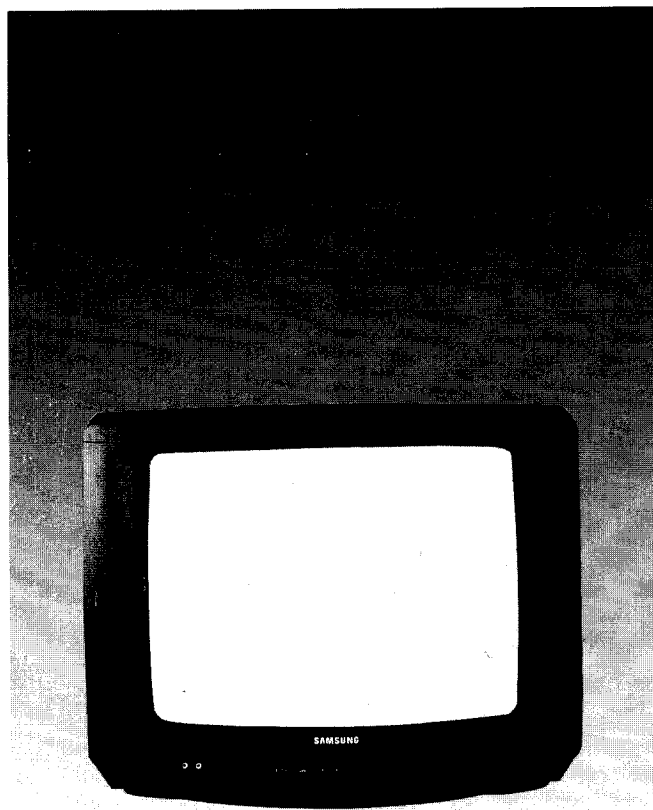
SAMSUNG

COLOR TELEVISION RECEIVER

CHASSIS : SCT11D
MODEL : CK5320TR1SEHCX
CK5320T1HPLCX
CK5320ZR1SEHCX
CK5320Z1HPLCX

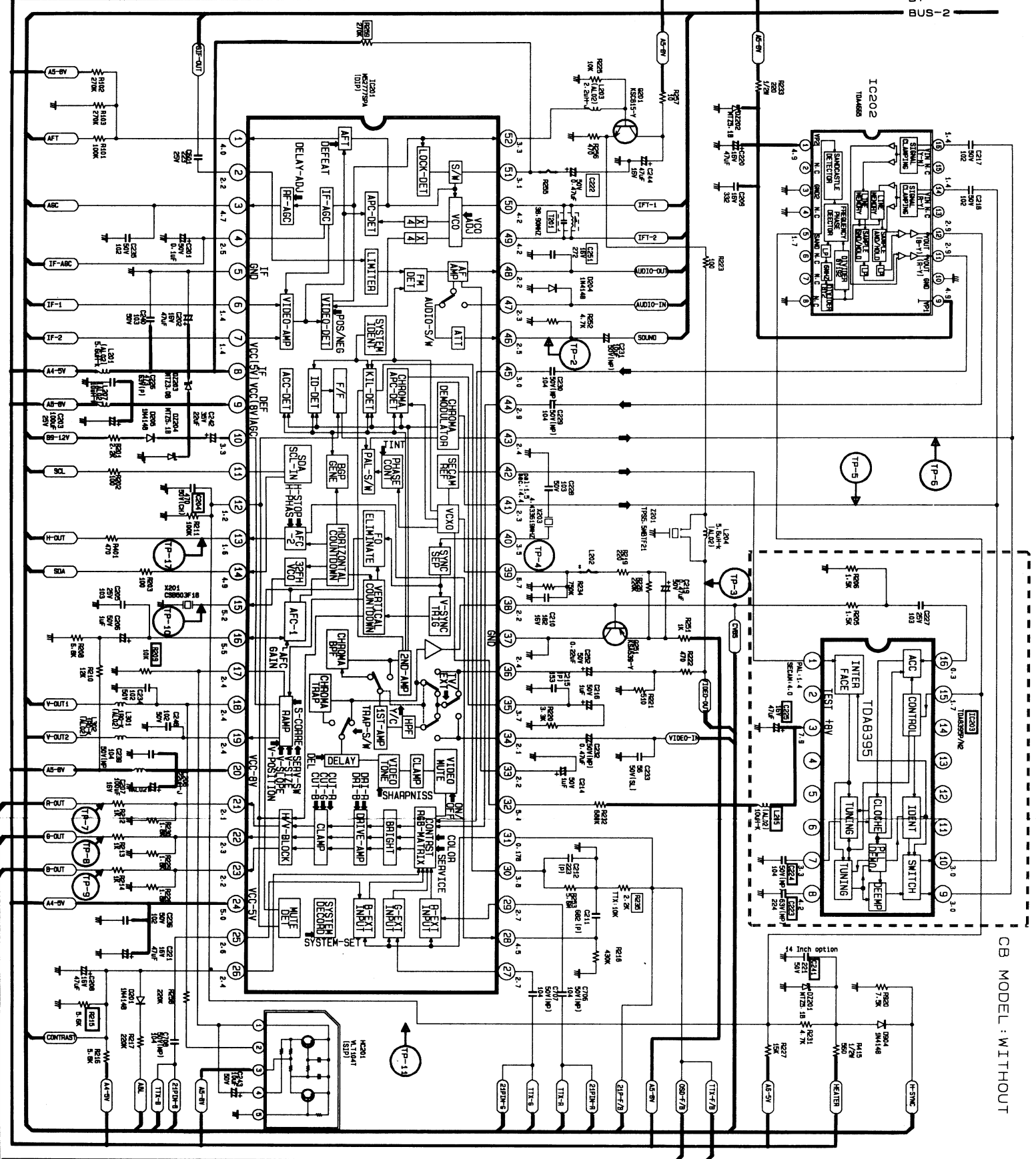
SERVICE *Manual*

COLOR TELEVISION RECEIVER



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CB MODEL: WITHOUT

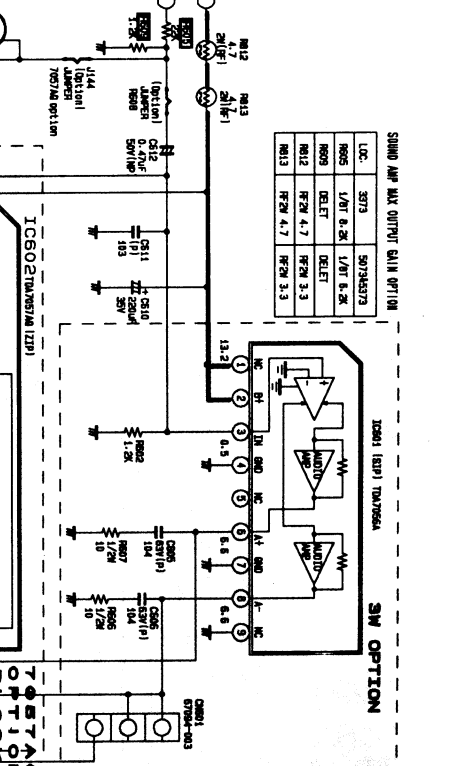
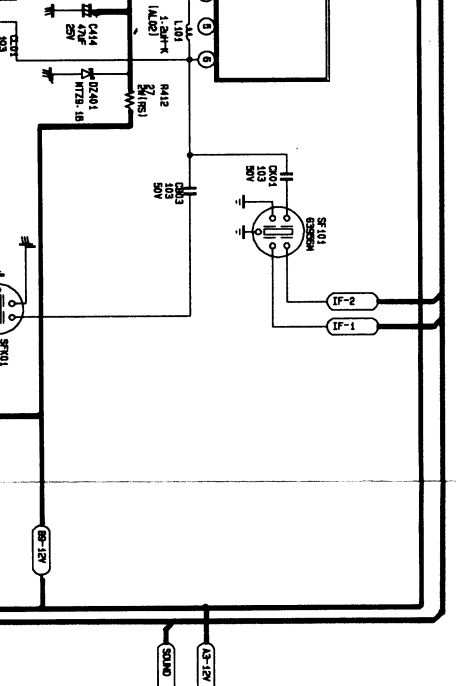
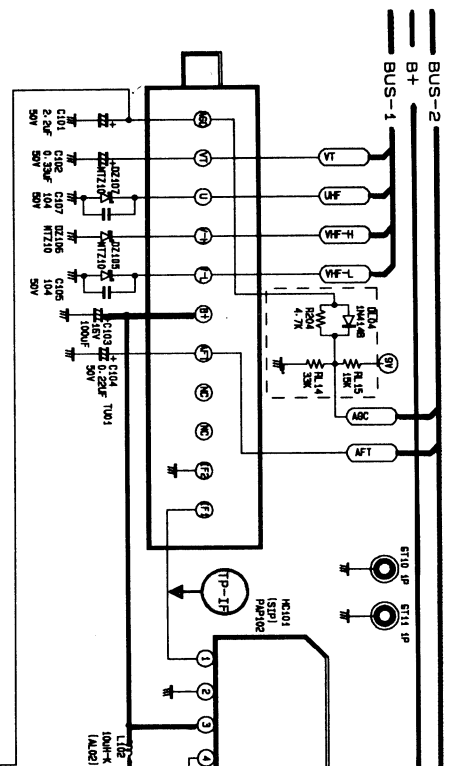
INCH OPTION

LOC.	INCH	14 INCH	16 INCH	20 INCH	21 INCH
R258	DELETE	DELETE	1/BW 220M	1/BW 220M	1/BW 220M
R209	DELETE	DELETE	1/BW 2.4K/1/BW 2.4K/1/BW 10K	1/BW 10K	1/BW 10K
R215	1/BW 5.1K/1/BW 5.6K/1/BW 5.6K	1/BW 5.6K	1/BW 5.6K	1/BW 5.6K	1/BW 5.6K
C241	50V 221	50V 221	DELETE	DELETE	DELETE
C204	DELETE	DELETE	CH 47PF	CH 47PF	DELETE
C243	DELETE	DELETE	50V 100F	50V 100F	50V 100F
HC201	DELETE	DELETE	VL T 104	VL T 104	VL T 104

CF MODEL OPTION

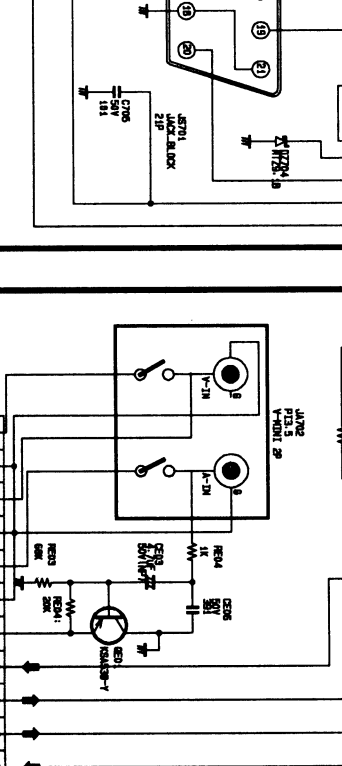
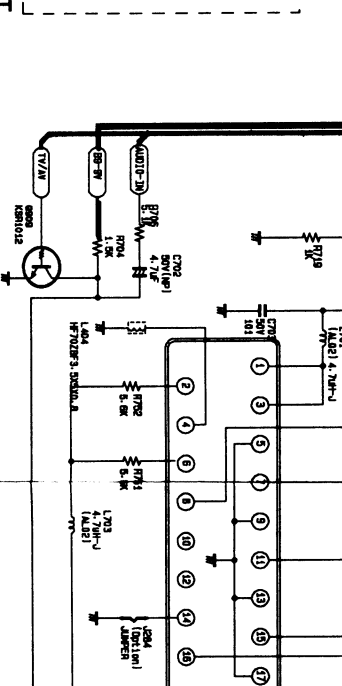
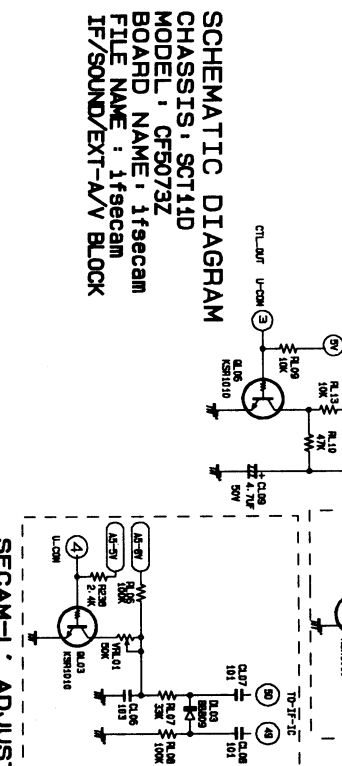
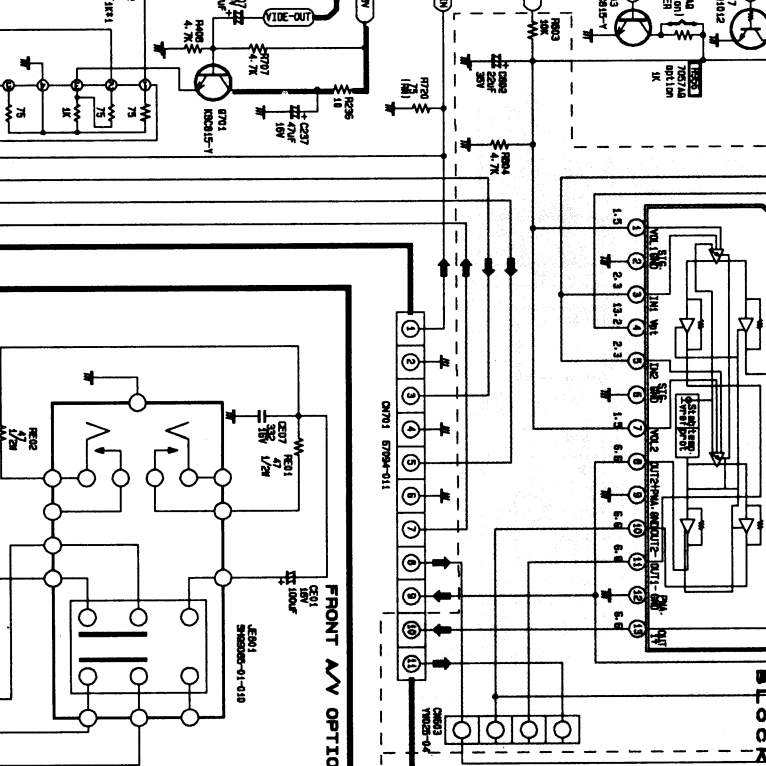
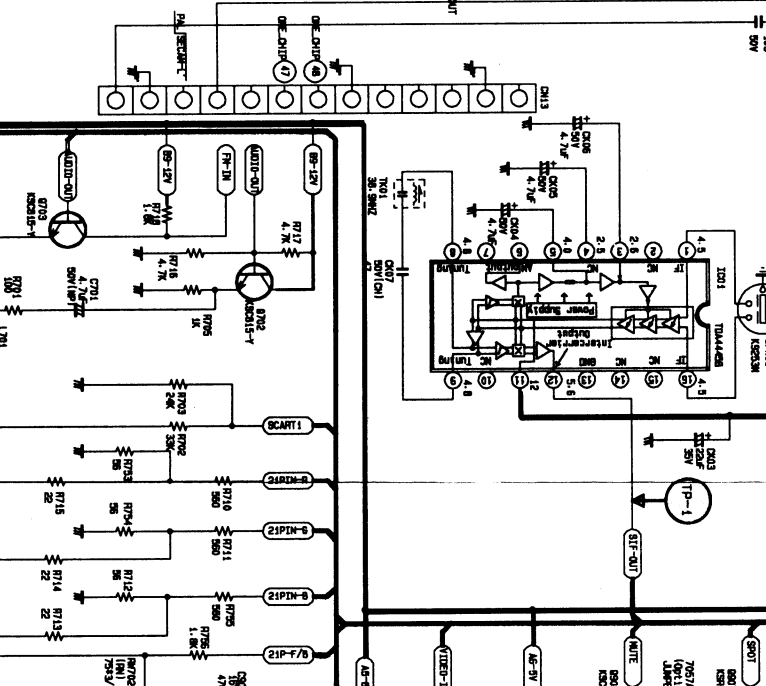
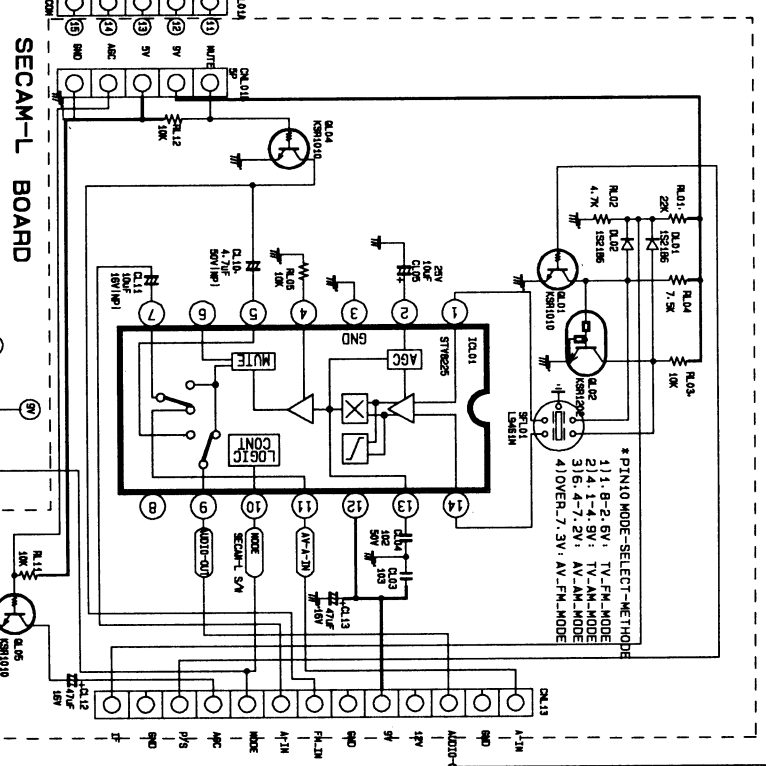
LOCATION	BASIC MODEL	CF MODEL
R259	1/BW 270K	1/BW 130K
C261	10V 272	10V 102
C222	C-ELEC. 50V 0.47UF	C-ONLY 714
T201	ADS-10040	ADS-10056

SCHEMATIC DIAGRAM
 CHASSIS: SCT11D
 MODEL: CK5073Z, CK5073T
 BOARD NAME: MAIN
 FILE NAME: 0nech1p
 ONECHIP/CHROMA BLOCK



SOUND AMP MAX OUTPUT GAIN OPTION

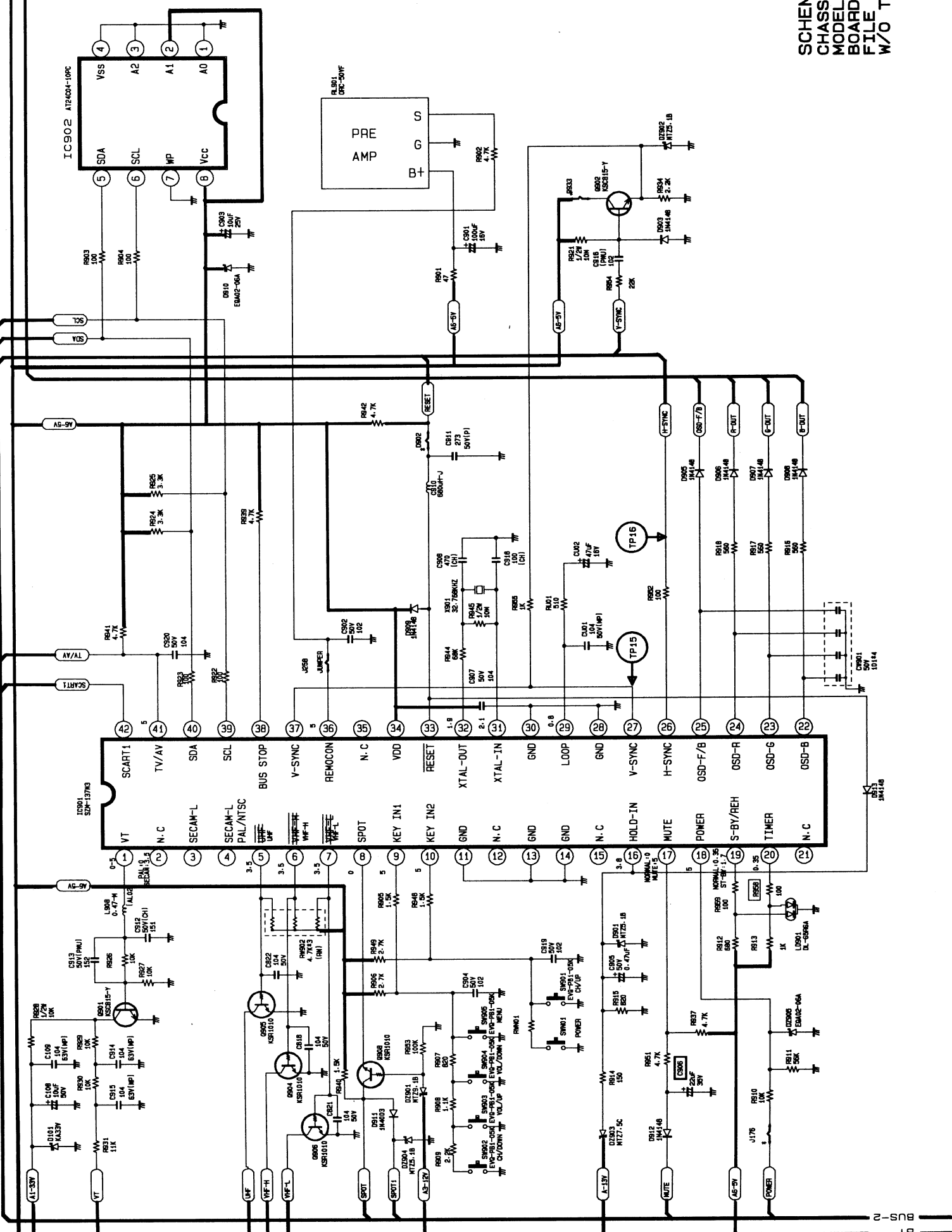
LOC.	3973	5073/4373
R905	L/RT 8.2K	L/RT 8.2K
R909	DELET	DELET
R912	RF2W 4.7	RF2W 3.3
R913	RF2W 4.7	RF2W 3.3



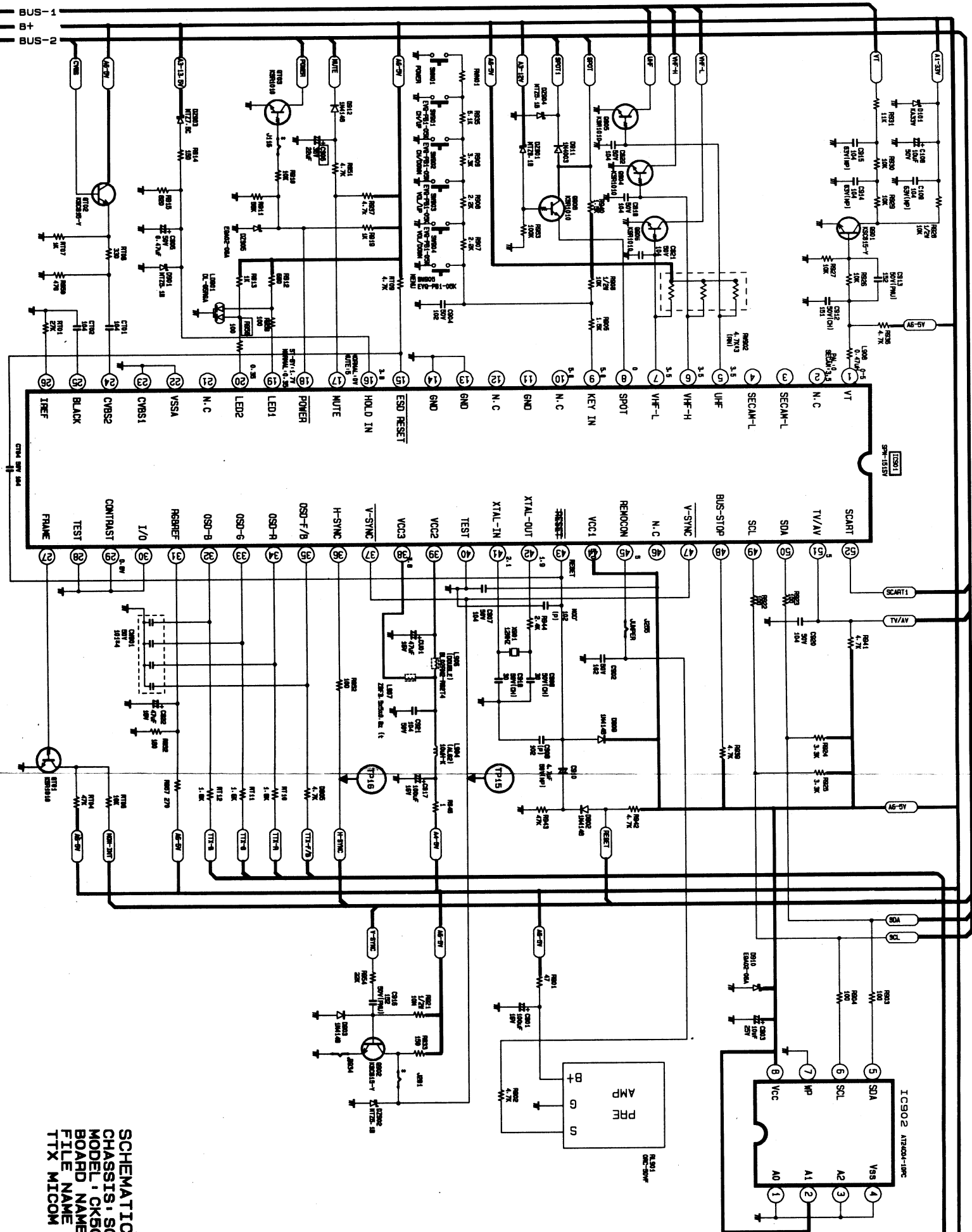
SCHEMATIC DIAGRAM
 CHASSIS: SC711D
 MODEL: CF5073Z
 BOARD NAME: 1fsecam
 FILE NAME: 1fsecam
 IF/SOUND/EXT-AV BLOCK

SECAM-L ADJUST

SECAM-L ADJUST



SCHEMATIC DIAGRAM
 CHASSIS: SCT111D
 MODEL: CK5073Z, CK5073T
 BOARD NAME: MAIN
 FILE NAME: Z11UCOM
 W/O TTX MICOM BLOCK



SCHEMATIC DIAGRAM
 CHASSIS: SCT11D
 MODEL: CK5073Z, CK5073T
 BOARD NAME: MAIN
 FILE NAME: txucum
 ITX MICOM BLOCK

4. Alignment and Adjustment

4-1 Preadjustment

4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

4-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to their initial values. It is necessary to re-program this data.
2. After IC902 is replaced, warm up the TV for 10 seconds

4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence:

White Balance
Sub-Brightness
Vertical Center
Vertical Size
Horizontal Size

4-2 Factory/Service Mode

4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated by (1) pressing the "HIDDEN" service key on the local-keyboard, or (2) by entering the following remote-control sequence:

STAND-BY → P.STD → HELP → SLEEP → POWER ON
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: Adjustment, Test Pattern, Option Bytes and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys (▲, ▼). The adjustment parameters adjusted are listed in the accompanying table, and they are selected by pressing the CHANNEL keys (▲, ▼).

4. Selection sequences for the PAL system:

down or up key:
AGC>SBT>SCT>SCR>PDL>RC>GC>BC>RG>BG>PSL>PVS>PVA>PHS

The diagram shows a horizontal line with an upward-pointing arrow at the left end and a downward-pointing arrow at the right end. The sequence of menu items is written above the line: AGC>SBT>SCT>SCR>PDL>RC>GC>BC>RG>BG>PSL>PVS>PVA>PHS.

5. Selection sequences for the NTSC system:

down or up key:
AGC>SBT>SCT>SCR>STT>NDL>RC>GC>BC>RG>BG>NSL>NVS>NVA>NHS

The diagram shows a horizontal line with an upward-pointing arrow at the left end and a downward-pointing arrow at the right end. The sequence of menu items is written above the line: AGC>SBT>SCT>SCR>STT>NDL>RC>GC>BC>RG>BG>NSL>NVS>NVA>NHS.

6. The VOLUME keys increase or decrease the adjustment values, which are stored in the non-volatile memory as soon as the Adjustment mode is cancelled.
7. Cancel the Adjustment Mode by repressing the "HIDDEN" key or the "status" key.

4-2-2 Main Adjustment Parameter

Table 4-1 Main Adjustment Parameter (Zilog μ -com) NON TTX

FUNCTION	OSD ABBREVIATION	RANGE	INITIAL DATA
AUTO GAIN CONTROL	AGC	0 ~ 63 STEP	40
SUB BRIGHT	SBT	0 ~ 63 STEP	44
SUB CONTRAST	SCT	0 ~ 63 STEP	32
SUB COLOR	SCR	0 ~ 27 STEP	13
SUB TINT	STT	0 ~ 27 STEP	13
PAL DELAY	PDL	0 ~ 7 STEP	2
NTSC DELAY	NDL	0 ~ 7 STEP	2
RED CUTOFF	RC	0 ~ 255 STEP	0
GREEN CUTOFF	GC	0 ~ 255 STEP	0
BLUE CUTOFF	BC	0 ~ 255 STEP	0
RED-GREEN DRIVE GAIN	RG	0 ~ 63 STEP	32
BLUE-GREEN DRIVE GAIN	BG	0 ~ 63 STEP	32
PAL VERTICAL SHIFT	PSL	0 ~ 31 STEP	8
PAL PEAK WHITE	PVS	0 ~ 15 STEP	6
PAL VERTICAL AMPLITUDE	PVA	0 ~ 63 STEP	32
PAL HORIZONTAL SHIFT	PHS	0 ~ 15 STEP	0
NTSC PEAK WHITE	NSL	0 ~ 31 STEP	8
NTSC VERTICAL SHIFT	NVS	0 ~ 15 STEP	1
NTSC VERTICAL AMPLITUDE	NVA	0 ~ 63 STEP	32
NTSC HORIZONTAL SHIFT	NHS	0 ~ 15 STEP	1

NOTE : PVS,PVA, PHS, NVS, NVA,NHS parameters must be aligned using both the 50Hz and 60Hz vertical-field rates.

Table 4-2 Main Adjustment Parameter (TTX μ -COM)

FUNCTION	OSD ABBREVIATION	RANGE	INITIAL DATA
AUTO GAIN CONTROL	AGC	0 ~ 63 STEP	40
SUB BRIGHT	SBT	0 ~ 63 STEP	44
SUB CONTRAST	SCT	0 ~ 63 STEP	32
SUB COLOR	SCR	0 ~ 27 STEP	13
PAL DELAY	PDL	0 ~ 7 STEP	2
RED CUTOFF	RC	0 ~ 254 STEP	0
GREEN CUTOFF	GC	0 ~ 254 STEP	0
BLUE CUTOFF	BC	0 ~ 254 STEP	0
RED-GREEN DRIVE GAIN	RG	0 ~ 63 STEP	32
BLUE-GREEN DRIVE GAIN	BG	0 ~ 63 STEP	32
PAL VERTICAL SHIFT	PSL	0 ~ 31 STEP	15
PAL PEAK WHITE	PVS	0 ~ 15 STEP	8
TTX SUB-CONTRAST	TSC	0 ~ 63 STEP	16

NOTE : PVS,PVA, PHS, parameters must be aligned using both the 50Hz vertical-field rates.

4-2-3 Test Pattern (Aging mode)

1. This mode can be used during servicing, or for confirming that the convergence and purity adjustments are correct.
2. Access the Test Pattern parameters by pressing a CHANNEL keys (\blacktriangle , \blacktriangledown) while the Service Mode is on. The cursor will move to the test pattern. Press the VOLUME keys. On-screen display:

- RED
 - GREEN
 - BLUE
 - AGING
- NON -TTX MICOM ONLY

TTX MICOM

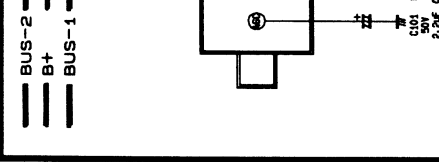
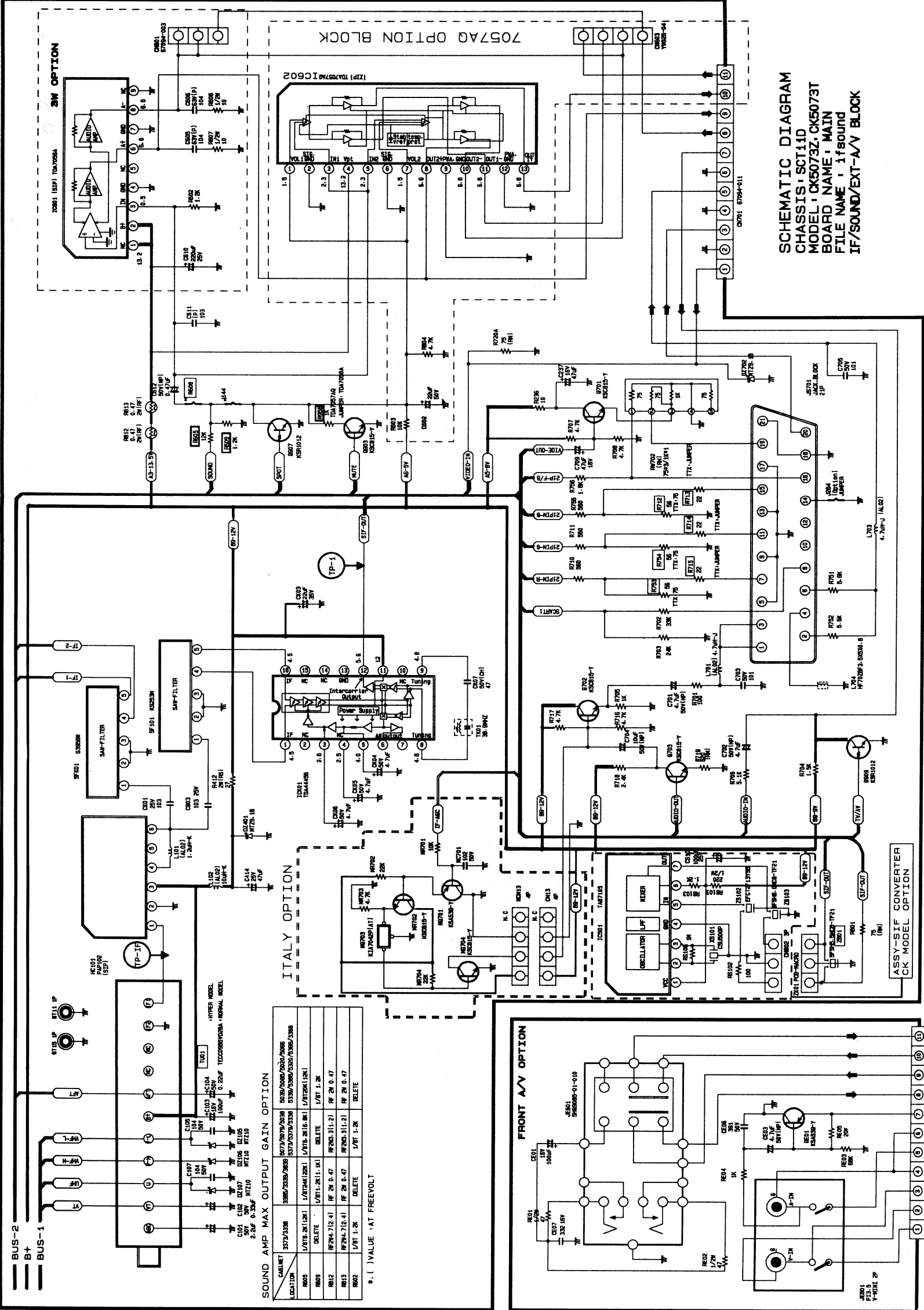
3. AGING Mode (Reference Only)

This pattern is used for pre-heating the CRT during manufacturing--it is accessed in the factory by twice pressing the "FACTORY" key .

Even if the TV power is cut off, the Aging Mode is not cancelled. The AGING mode is cancelled by repressing the "FACTORY" key.

The patterns are displayed at 5 sec intervals : NON-TTX MICOM ONLY.

SCHEMATIC DIAGRAM
 CHASSIS: SCT110
 MODEL: CK5073Z, CK5073T
 BOARD NAME: MAIN
 FILE NAME: 1fsound
 IF/SOUND/EXT-A/V BLOCK



SOUND AMP MAX OUTPUT GAIN OPTION

CHAR. NET LOCATION	3370/3308	3380/3330/3365	3370/3370/3330	3370/3370/3330	3370/3370/3330	3370/3370/3330	3370/3370/3330
R605	1/RT1.2K(1.2K)	1/RT1.2K(1.2K)	1/RT1.2K(1.2K)	1/RT1.2K(1.2K)	1/RT1.2K(1.2K)	1/RT1.2K(1.2K)	1/RT1.2K(1.2K)
R606	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE
R607	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47
R608	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47	RF 2K 0.47
R609	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE
R610	1/RT 1.2K	1/RT 1.2K	1/RT 1.2K	1/RT 1.2K	1/RT 1.2K	1/RT 1.2K	1/RT 1.2K

* () VALUE *AT FREVOULT

