

AV/V OPTION #

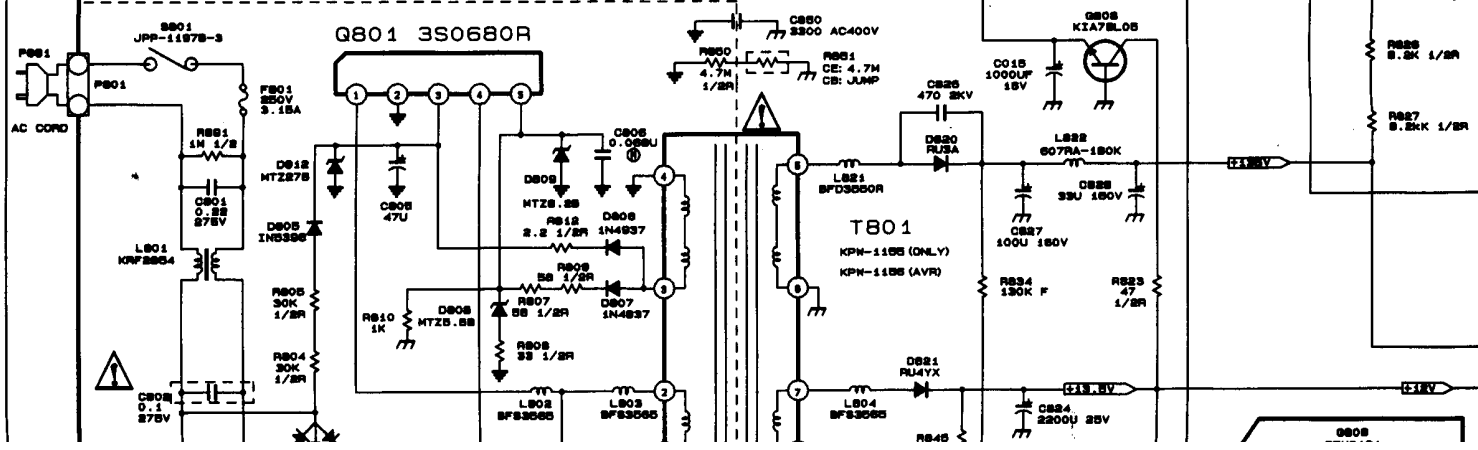
OPTION	AV	AV1/S
G001 #4	LOW	HIGH
SYSTEM	RV50	RV50

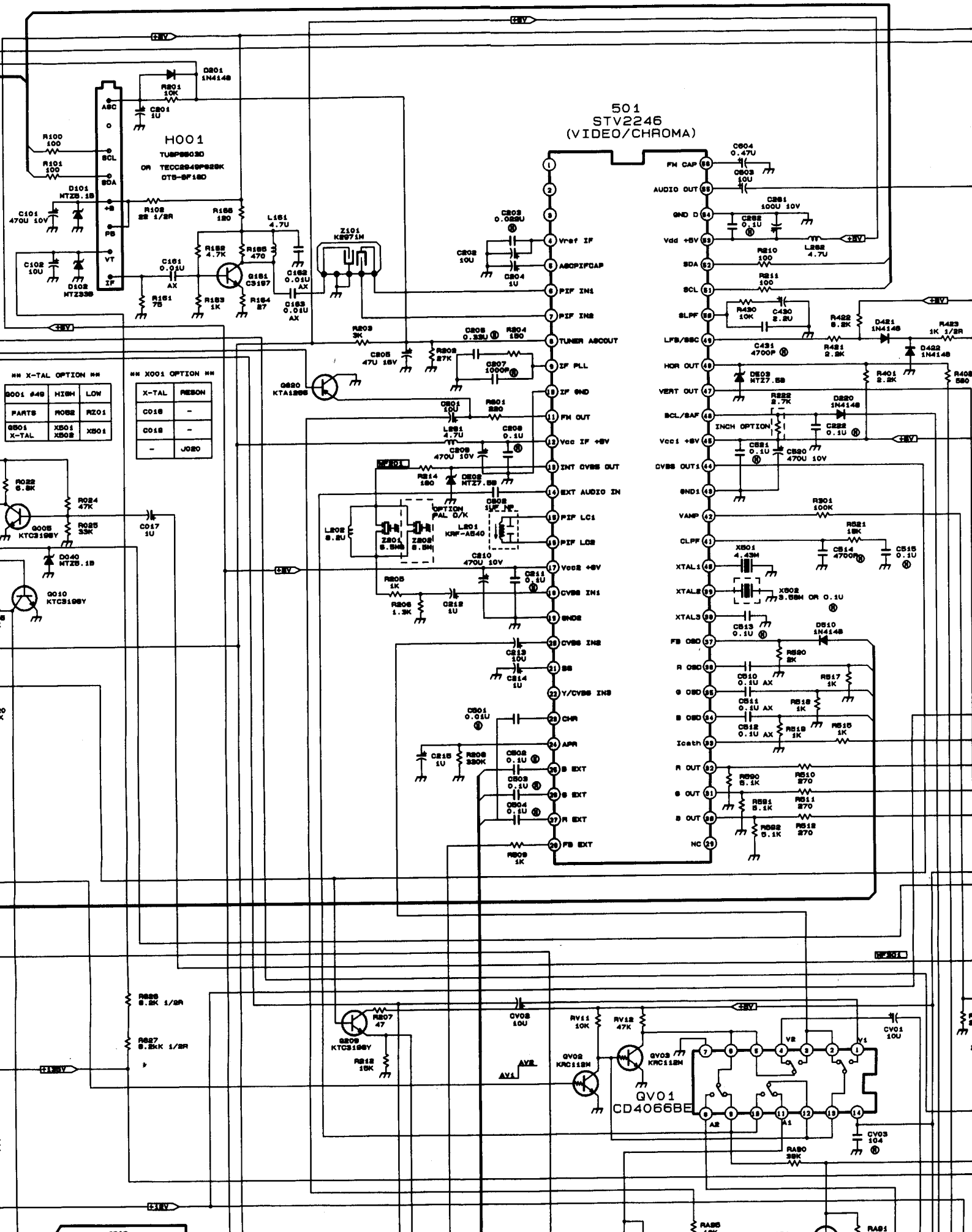
HW X-TAL OPTION HW

PARTS	HIGH	LOW
R001 #48	R002	R001
R001	X001	X001
X-TAL	X002	X001

HW X001 OPTION

X-TAL	RES
C018	-
C018	-
-	JOB





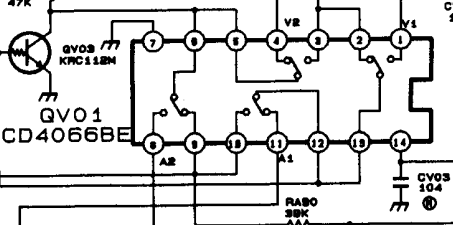
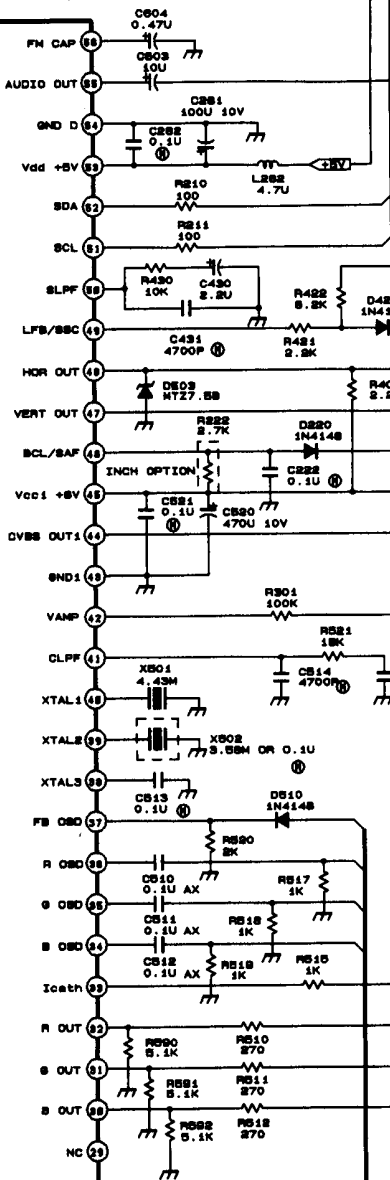
HM X-TAL OPTION MM

0001 #48	HIGH	LOW
PARTS	R022	R201
S001	X001	X001
X-TAL	X002	X001

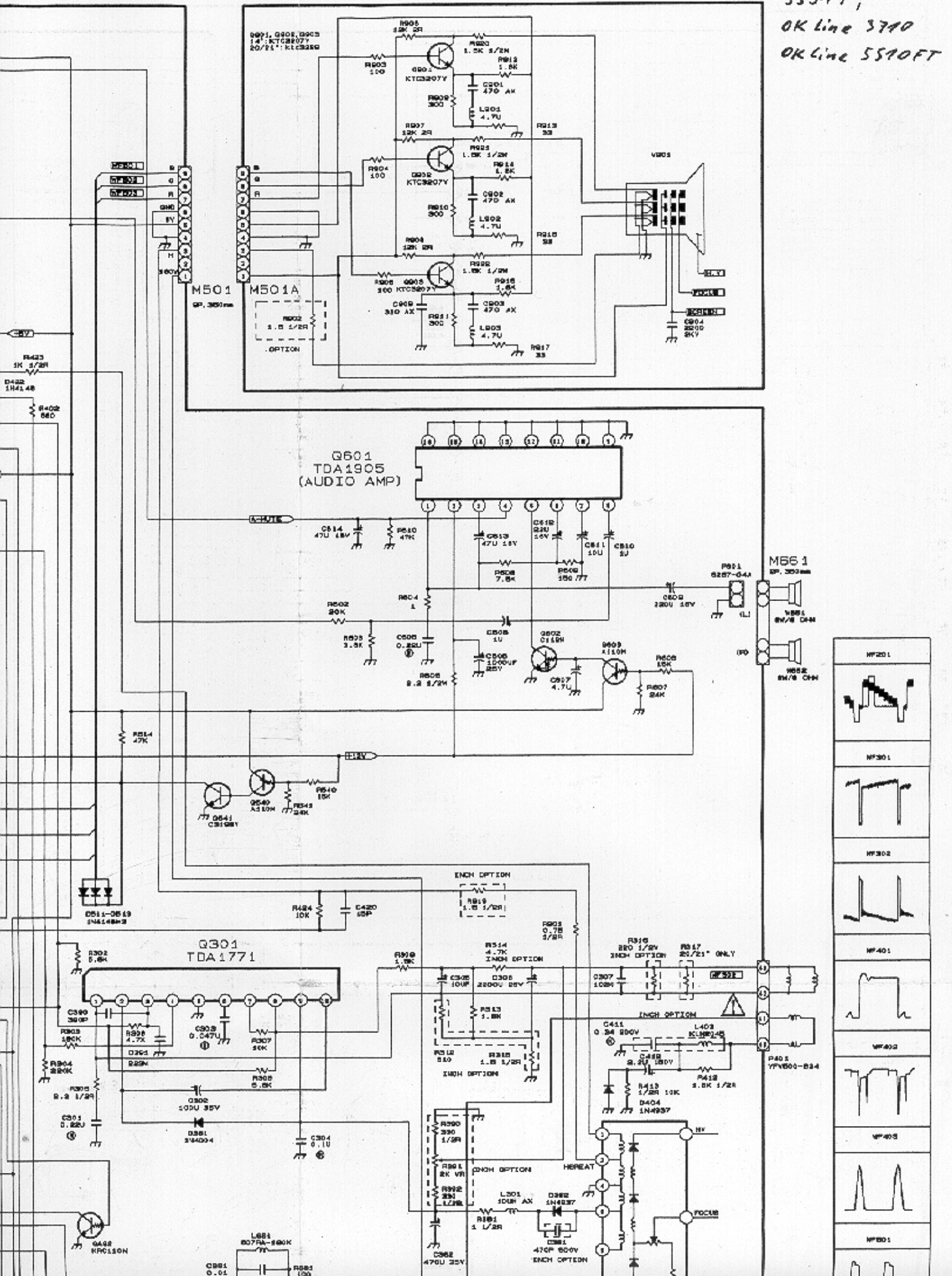
HM X001 OPTION MM

X-TAL	RESON
CD18	-
CD18	-
-	JO80

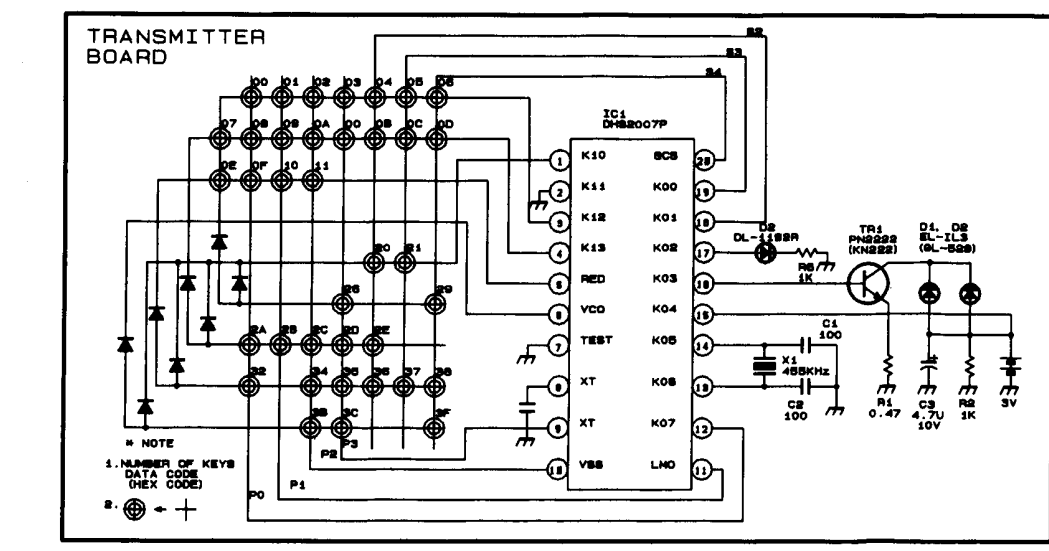
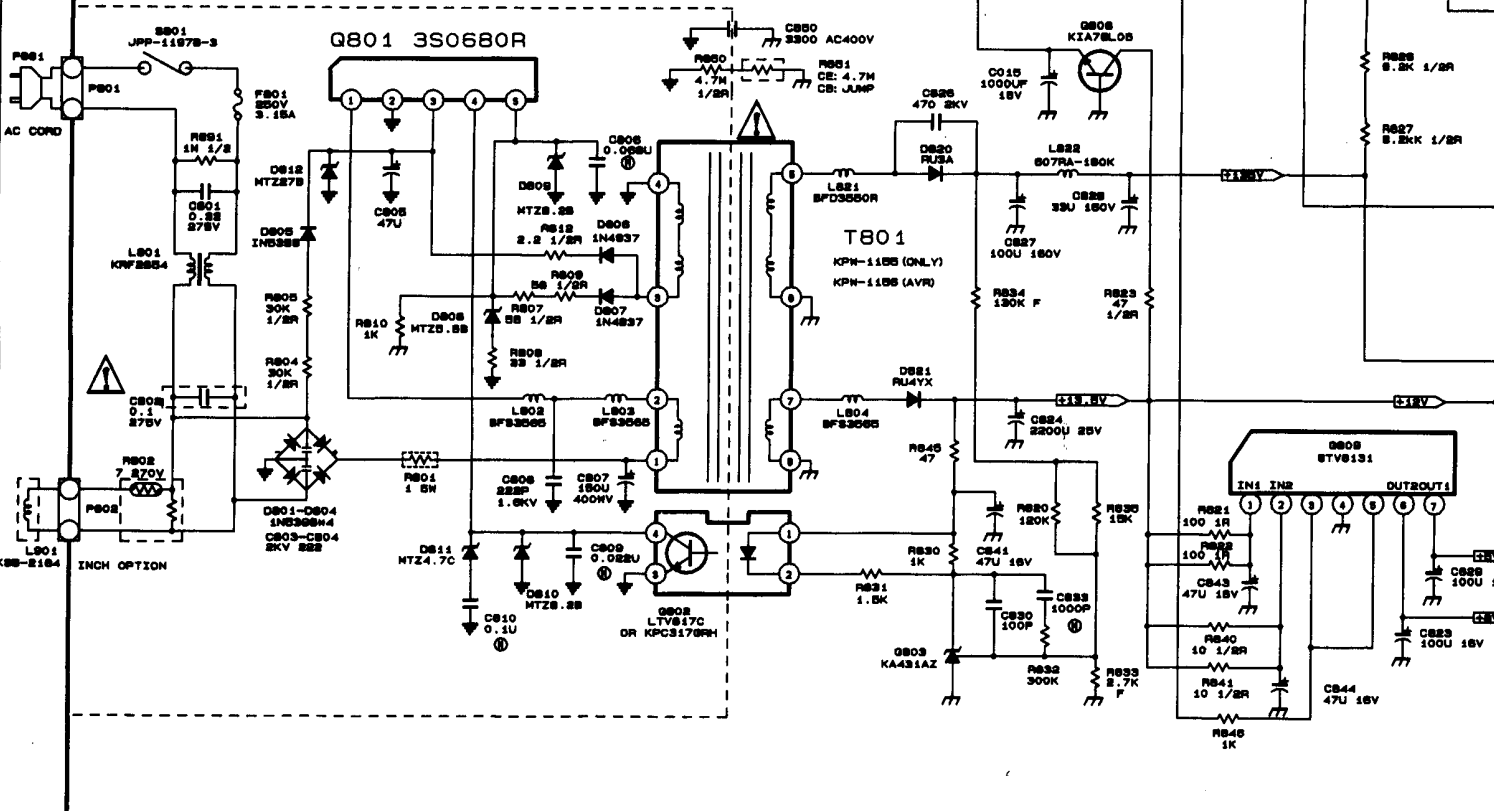
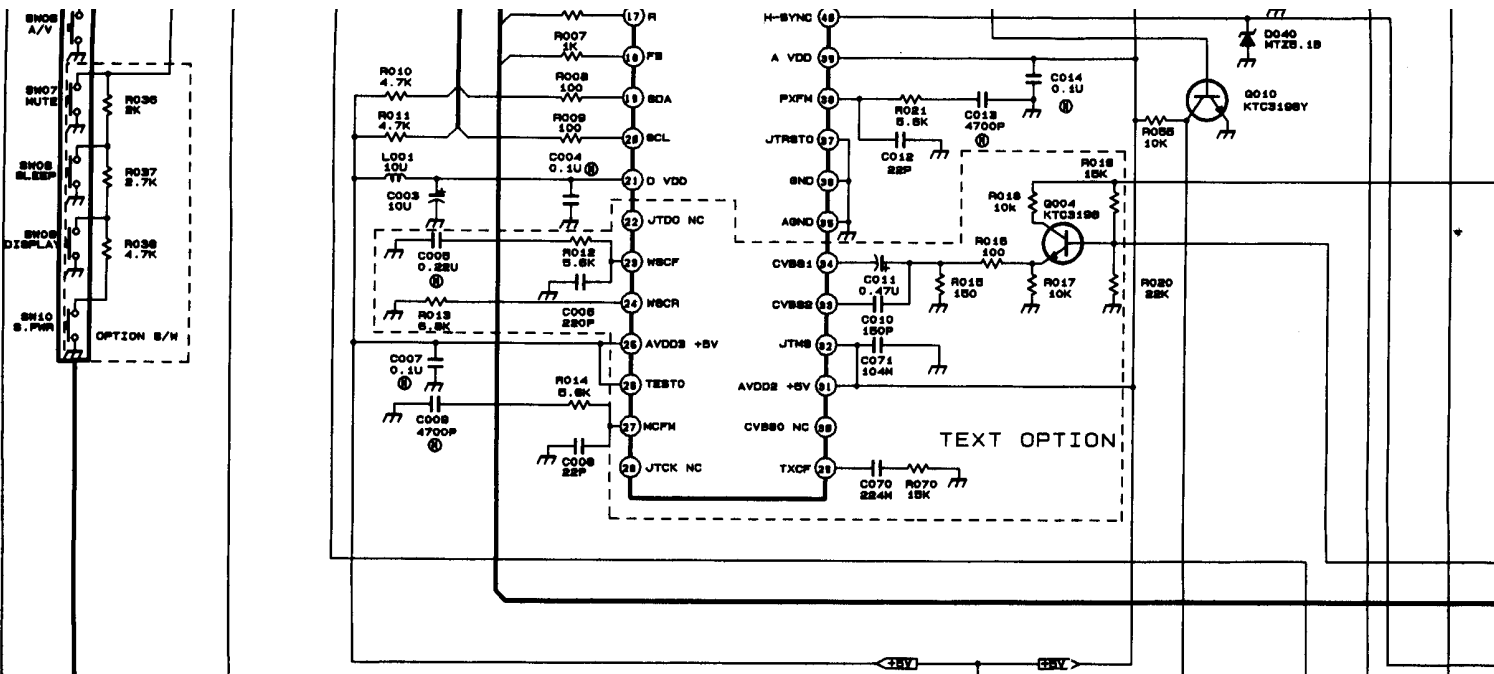
501
STV2246
(VIDEO/CHROMA)



5531T,
OK Line 3700
OK Line 5510FT

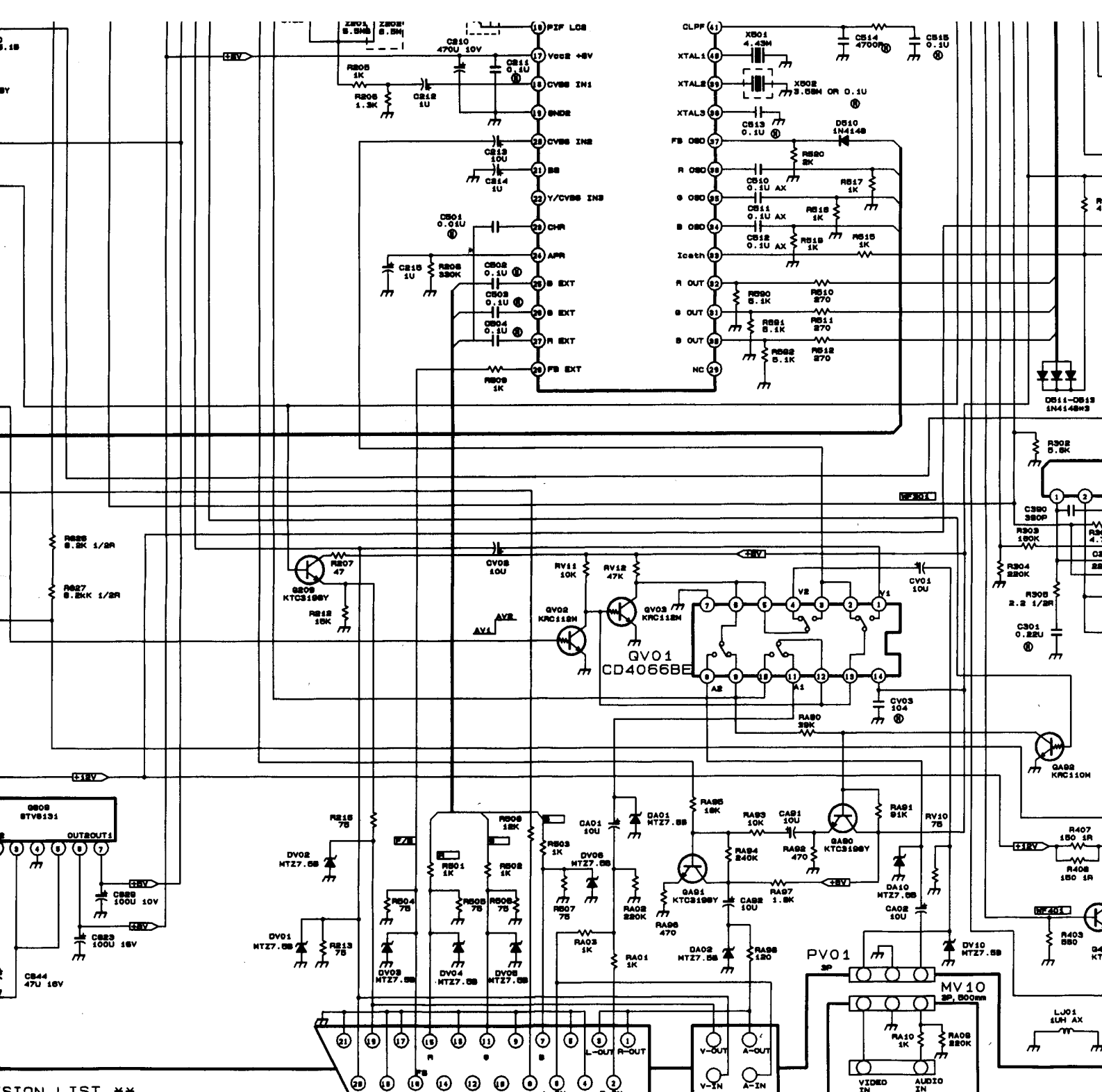


- MF201
- MF301
- MF302
- MF401
- MF402
- MF403
- MF501



** COMPARISON LIST **
 INCH

PART	14	20	21
B404	KBC8011	KTD888	KTD888
C801	470P 800V	222P 800V	222P 800V
C408	880P 2KV	880P 2KV	330P/880P
C411	344P 200V	384P 200V	384/384
L403	KLNB04E	KLNB143	KLNB143/KLNB143
L801	K8B-2184	K8B-2185	K8B-2185
R822	2.7K	2.8K	2.8K/1.5K
R812	510	380	330
R814	4.7K	5.1K	4.7K
R816	1.5 1/2R	1.0 1/2R	1.0 1/2R
R818	280 1/2R	280 1/2R	280 1/2R
R817	-	280 1/2R	280 1/2R
R820	330 1/2R	270 1/2R	270 1/2R
R801	2KFB VR	1KFB VR	1KFB VR
R802	280 1/2R	270 1/2R	270 1/2R
R802	1.5 1/2R	1.2 2R	0.88/2.3
R819	1.5 1/2R	0.75 1/2R	0.75/1.5
T481	F01421 (DNF)	FX80017 (DNF)	FX80017 (DNF)
T481	F8V-20B13 (B/B)	F8V-20B13 (B/B)	F8V-20B13 (B/B)
J105	JUMP	-	JUMP
LJ01	1UH	JUMP	1UH
Q801A	H/S SMALL	H/S LARGE	H/S LARGE
D404A	-	HEAT SINK	HEAT SINK



INCH

20	21
KTDB488	KTDB488
222P 500V	222P 500V
880P 2KV	330P/880P 2KV
384P 200V	384/334 200V
KLNB143	KLNB143/KLNB018
K88-2185	K88-2185
2.2K	2.2K/1.8K
380	330
5.8K	4.7K
1.0 1/2R	1.0 1/2R
380 1/2R	380 1/2R
380 1/2R	380 1/2R
270 1/2R	270 1/2R
1KFB VR	1KFB VR
270 1/2R	270 1/2R
1.2 2R	0.82/2.2 2R
0.75 1/2R	0.75/1.5 1/2R
FXB0017 (DNP)	FXB0017 (DNP)
FBV-20B13 (B/B)	FBV-20B13 (B/B)
-	JUMP
JUMP	1UH
H/S LARGE	H/S LARGE
HEAT SINK	HEAT SINK

*** A/V OPTION LIST ***

NO	PARTS NO	A/V ONLY	A/V 1, 2
1	RV50	10K	-
2	RV50	-	10K
3	JV01	JUMP	-
4	JV02	JUMP	-
5	PV02	-	RCA 3P JACK
6	PV01	-	2P PLUS
7	MV10	-	HARNESS 3P
8	RA08	-	220K
9	RA10	-	1K
10	DV10	-	MTZ7.5B
11	DA10	-	MTZ7.5B
12	CV02	-	10UF 50V
13	CA02	-	10UF 50V
14	GV01	-	CD4066BP
15	CV01	-	10UF 50V
16	GV02	-	KRC118M
17	GV03	-	KRC118M
18	RV11	-	10K
19	RV12	-	47K
20	RV10	-	75
21			

*** KRTS OPTION ***

NO	PARTS NO	14 INCH	20 INCH	21 INCH
1	L408	KRF8082	KRF8051	KRF8051
2	RV10	JUMP	JUMP	JUMP
3	RV01	JUMP	0.75 1/2R	1 1/2R
4	C411	444 200V	384 200V	384 200V
5	CS81	470P 500V	222P 500V	222P 500V
6	R822	2.7K	1.8K	1.8K
7	RV02	1.5 1/2R	1.2 2R	1.2 2R
8	J011	DELET	DELET	DELET
9	Q404	KTDB488	KTDB488	KTDB488
10	Q404A	HEAT SINK	HEAT SINK	HEAT SINK
11	EL08	EYE LET	->	->
12	EL10	EYE LET	->	->
13	EL12	EYE LET	->	->
14	EL13	EYE LET	->	->
15	J105	JUMP	JUMP	JUMP

NO	DATE	MODIFY CONTENTS	MODIFY REASON

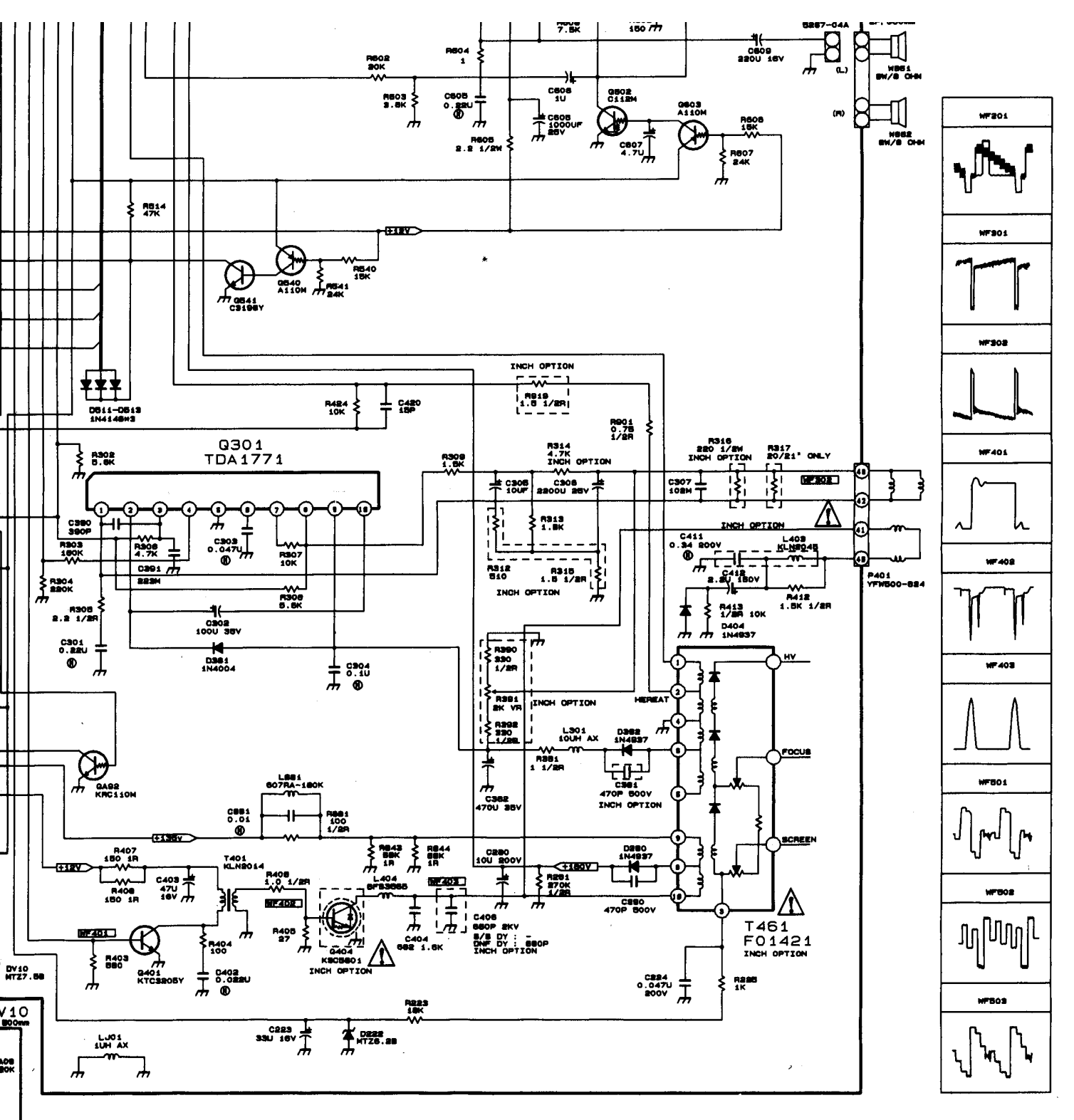
V 1

V 2

P202 (BCAPT)

P201 PJ-6037A 4P

PV01 JACK S-441S 2P



****NOTE****

1. ALL RESISTORS 1/4W CARBON FILM RESISTOR UNLESS OTHERWISE LISTED
RESISTANCE UNIT IS IN OHM. K=1,000 M=1,000,000
1/BR: METAL OR METAL OXIDE 1/2W. 1/SS: SOLID 1/2W.
1/RF: FUSE RESISTOR 1/2W. 10M: CEMENT RESISTOR 10W
2. ALL CAPACITORS ARE 50V CERAMIC CAPACITOR UNLESS OTHERWISE LISTED.
CAPACITANCE LESS THAN 1 ARE EXPRESS IN UF. AND GREATER THAN 1 IN OF.
3. VOLTAGES ARE MEASURED WITH DVM FROM POINT INDICATED TO CHASSIS GROUND.
USING COLOR BAR SIGNAL WITH ALL CONTROLS AT NORMAL.
4. WAVEFORMS ARE MEASURED WITH SYNCHROSCOPE FROM POINT INDICATED TO CHASSIS GROUND. USING COLOR BAR SIGNAL WITH ALL CONTROLS AT NORMAL.

MODIFY REASON	F. APPD	APPD	CHKD

COLOR TV RECEIVER SCHEMATIC DIAGRAM			
DRAWING BY :	1988.08.30	MODEL	14/80/81 Z CHASSIS
DESIGNED BY :	KIM YONG HAN	DOMESTIC MODEL NO.	
CHECKED BY :	J.S.KIM	CHASSIS NO.	
APPROVED BY :	D. CHUN	KOREA ELECTRONICS CO., LTD	
FIN. APPROVED BY :	88.09.09	DRAWING NO.	CD-C-0043

4. Alignment and Adjustments

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(Q002) or the CPT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. The screen is intended only for factory use.

4-1-2 When EEPROM (Q002) is replaced

1. When Q002 is replaced all adjustment data revert to their initial values. It is necessary to re-program this data.
2. After Q002 is replaced, warm up the TV for 10 seconds.

4-1-3 When CPT is replaced

1. Make the following the adjustments after setting up purity and convergence:
 - White Balance
 - 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 Factory (Service) Mode is activated by pressing the "Factory" key on the remote control.
2. The Factory Mode will be displayed. The Factory Mode has six components :
VCO ADJ, SCR ADJ, HRS, HEIGHT, W. Bal, AGC Auto.
3. Access the Adjustment Mode by pressing the VOLUME keys (Up or Down). The adjustment Parameters adjusted are listed in the accompanying table, and they are selected by pressing the PROGRAM keys (Up or Down).
4. The VOLUME keys increase or decrease the adjustment values.

4-2-2 Service Adjustment Parameter

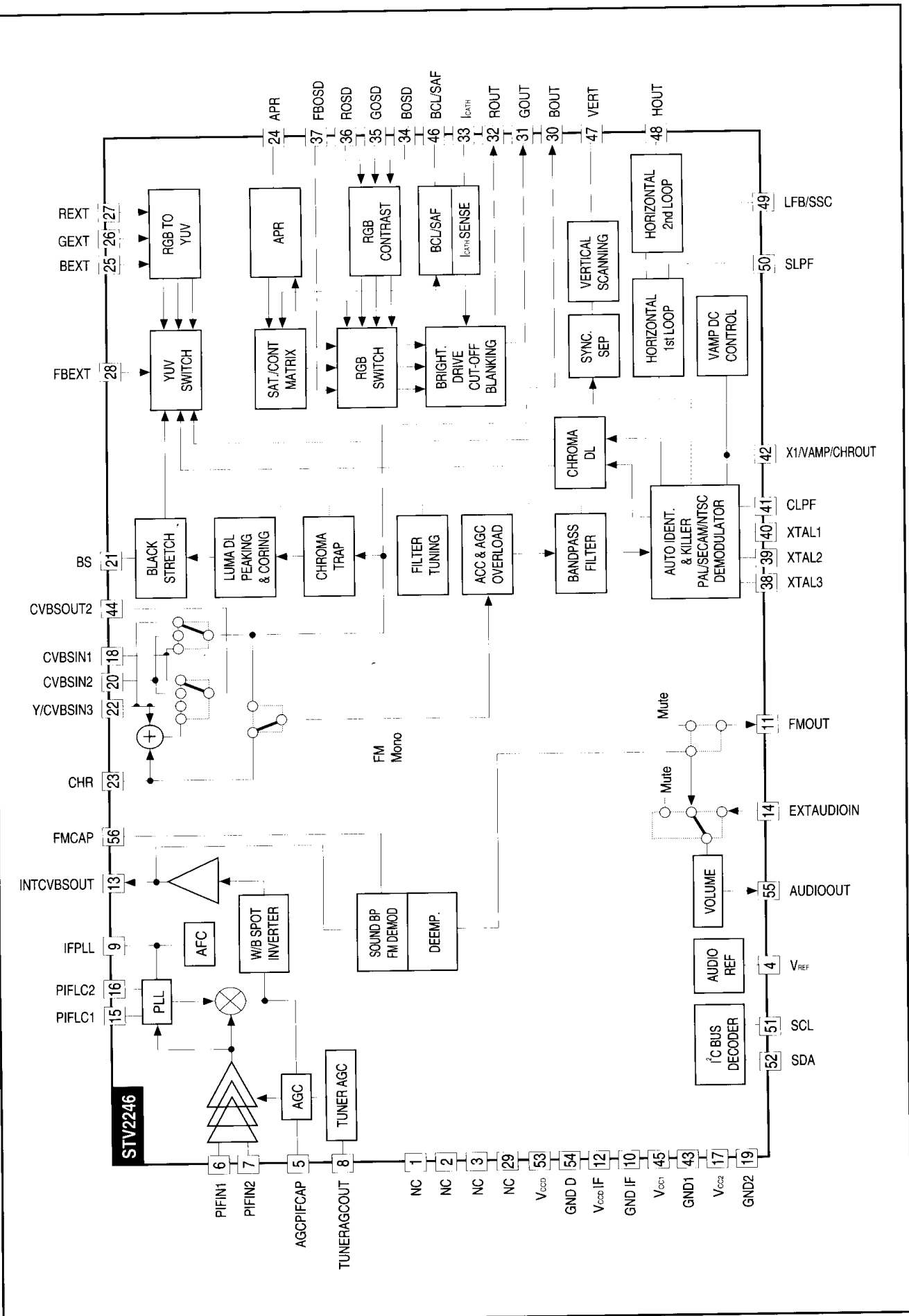
Function	OSD Abbreviation	Range	Initial Date
PIF VCO	VCO ADJ	0 ~ 127	64
Screen voltage	SCR ADJ		
Horizontal SHIFT	HRS	0 ~ 63	32
Vertical Amplitude	HEIGHT	0 ~ 63	32
RED Gain	R-H	0 ~ 63	35
Green Gain	G-H	0 ~ 63	35
Blue Gain	B-H	0 ~ 63	35
RED Cutoff	R-L	0 ~ 511	380
Green Cutoff	G-L	0 ~ 511	380
Blue Cutoff	B-L	0 ~ 511	380
Auto Gain Control	AGC Auto	0 ~ 63	47
Wide PIF VCO	VCO CORS	0 ~ 15	8
Narrow PIF VCO	VCO Fine	0 ~ 127	64
Auto Gain Control	AGC Manual	0 ~ 63	47

4-3 Other Adjustments

4-3-1 General Alignment Instructions

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. Observe the picture for good black and white details. There should be no objectionable color, shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.

5-1-3 Block Diagram (STV2246) (SDIP56)



Block Diagram (STV2248) (SDIP56)

