

JVC

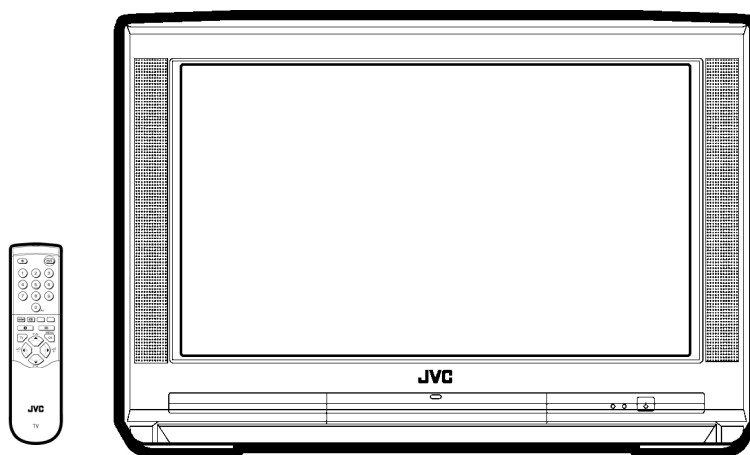
SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS

JKII

**AV28CT1EKS / AV28CT1EKB
AV28CT1EPS / AV28CT1EPB
AV28CT1EIS**



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REPLACEMENT OF MEMORY ICs

1. Memory ICs

This TV use memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

PROCEDURE	
(1) Power off	Switch the power off and unplug the power cord from the outlet.
(2) Replace ICs.	Be sure to use memory ICs written with the initial data values.
(3) Power on	Plug the power cord into the outlet and switch the power on.
(4) Check and set SYSTEM CONSTANT SET :	<ul style="list-style-type: none"> • It must not adjust without signal. 1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously. 2) The SERVICE MENU screen of Fig. 1 will be displayed. 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed. 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION +/- key. 5) Press the MENU key to memorize the setting value. 6) Press the INFORMATION key twice, and return to the normal screen.
(5) Setting of receive channels	Set the receive channel. For setting, refer to the OPERATING INSTRUCTIONS.
(6) User settings	Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS.
(7) Setting of SERVICE MENU	Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary. For setting, refer to the SERVICE ADJUSTMENTS.

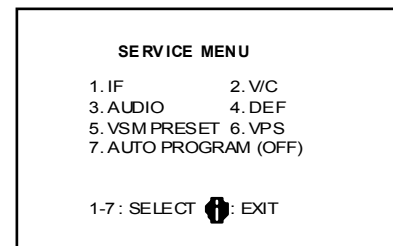


Fig.1

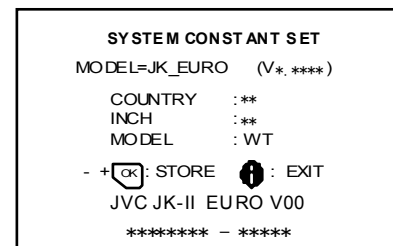


Fig.2

NAME OF REMOTE CONTROL KEY

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

AV28CT1EKS / AV28CT1EKB
 AV28CT1EPS / AV28CT1EPB
 AV28CT1EIS

SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value		
		AV28CT1EPS / EPB	AV28CT1EIS	AV28CT1EKS / EKB
COUNTRY	→ EK → IR → EP ←	EP	IR	EK
INCH	→ 24 → 28 → 32 ←	28	28	28
MODEL	→ WT → WR ←	WT	←	←

USER SETTING VALUES (TABLE 2)

PICTURE SETTING		EXT SETTING	
TINT CONTRAST BRIGHT SHARP COLOUR ECO MODE	COOL REFER to VSM PRESET NOTHING	ID S-IN DUBBING	BLANK BLANK EXT-1→EXT-2
PICTURE FEATURES		FEATURES	
AUTO VNR COLOUR SYSTEM 4:3 AUTO ASPECT	AUTO TV : According to preset CH EXT : AUTO PANORAMIC	SLEEP TIMER BLUE BACK CHILD LOCK DECODER (EXT-2)	OFF ON ID : No.**** ALL CH OFF OFF
SOUND SETTING		INSTALL	
STEREO/ I · II BASS TREBLE BALANCE HYPER SOUND	○ +8] CENTER OFF	LANGUAGE EDIT/MANUAL DEMO	ENGLISH PRESET CH only The others : BLANK OFF

SERVICE MENU SETTING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value
1. IF	VCO	4. DEF.	1. V-SHIFT 2. V-SIZE 3. SUBTITLE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. TRAPEZ 8. EW. COR. L 9. EW. COR. H 10. V. S-COR 11. V- LIN 12. H-BLK-R 13. H-BLK-L 14. V-EHT 15. H-EHT 16. EHT-GAIN
2. V / C	1. CUT OFF 2. DRIVE 3. BRIGHT 4. CONT. 5. COLOUR 6. HUE 7. BLACK OFFSET (Only SECAM) 8. SHARP 9. PURITY	5. VSM PRESET [COOL NORMAL WARM]	1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. B DRIVE
1. AUDIO (Do not adjust)	1. CONC LIMIT 2. A2 ID THR 3. ALC 4. BASS 5. TREBLE	6. VPS (Do not adjust)	VPS PDC
		7. AUTO PROGRAM (Do not adjust)	ON / OFF

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
ZOOM	PANORAMIC

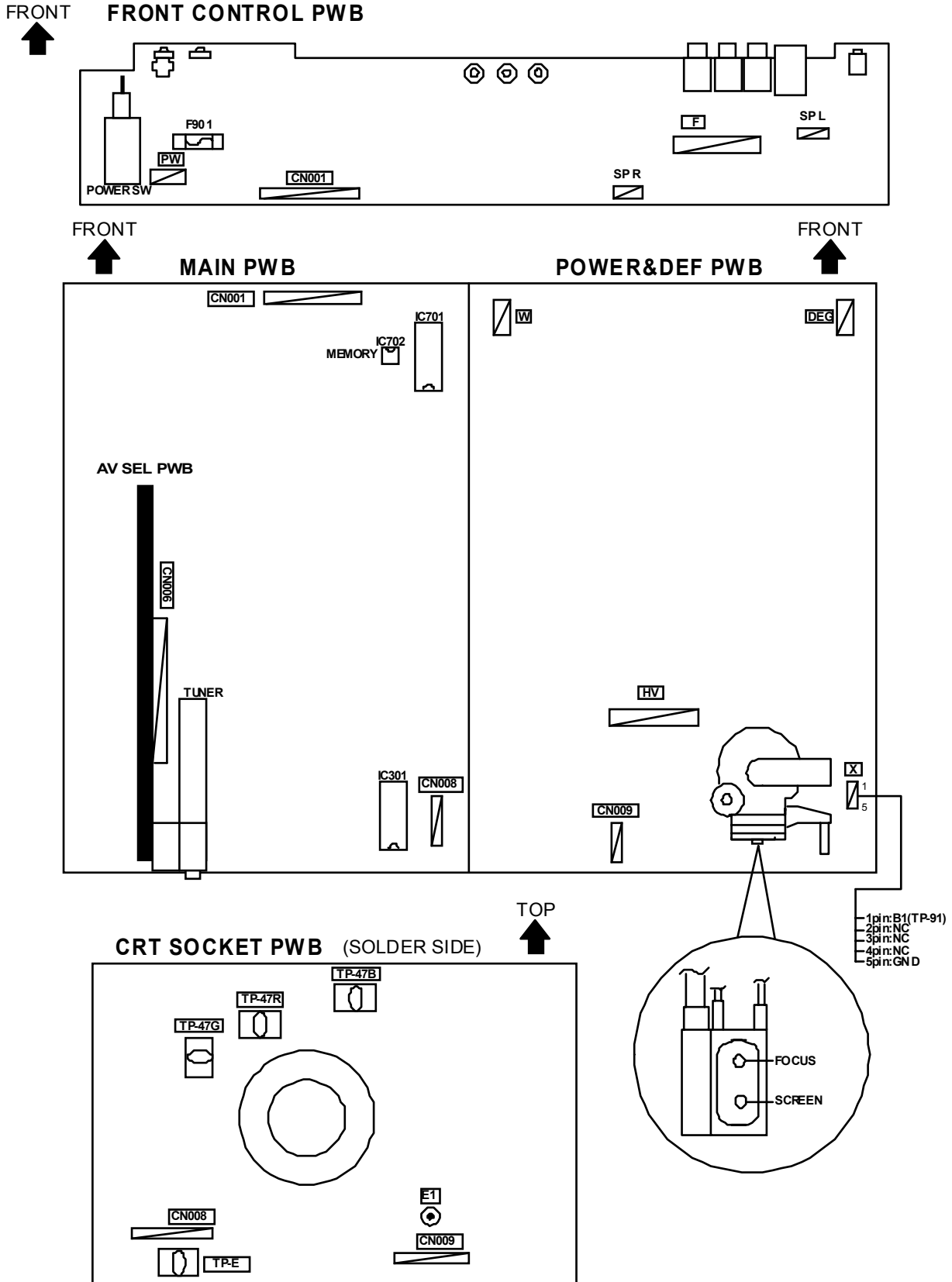
MEASURING INSTRUMENT AND FIXTURES

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

ADJUSTMENT ITEMS

- B1 power supply check.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset adjust setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- H. BLANKING ADJUSTMENT.
- AUDIO circuit adjustment. (Do not adjust)

ADJUSTMENT LOCATIONS



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)
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.

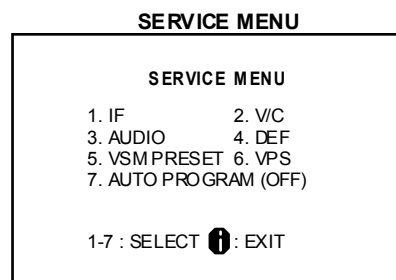


Fig.1

(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), from 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

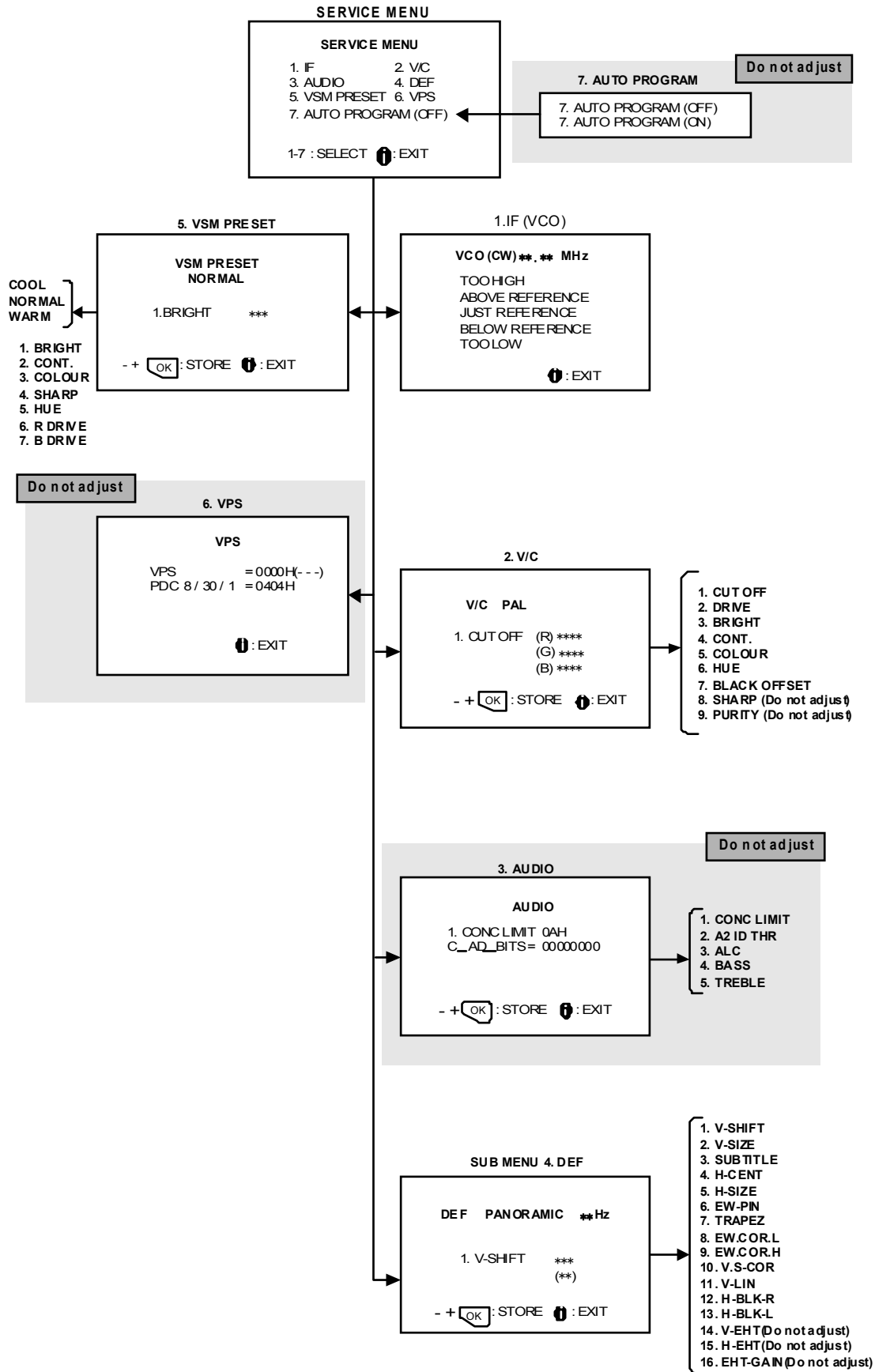


Fig. 3 SUB MENU SCREEN

(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.

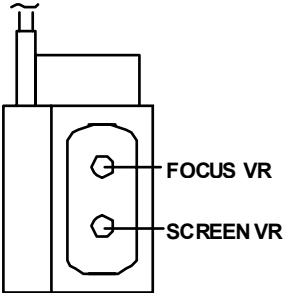
ADJUSTMENTS

CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power Supply	Signal generator DC voltmeter Remote control unit	TP-91(B1) TP-E(↗) [X connector on POWER DEF PWB]		<ol style="list-style-type: none"> 1. Receive a any broadcast. 2. Push the "ZOOM" key and select the FULL mode. 3. Select 2.V/C from the SERVICE MENU. 4. Select 1. CUT OFF with Function UP/DOWN key. 5. Show one horizontal line with the 1 key. 6. Turn the SCREEN VR, the whole black screen display. 7. Connect a DC voltmeter to TP-91(B1) and TP-E(↗). 8. Make sure that the voltage is DC144.5 ±2.0V. 9. Readjust the SCREEN VR to appear the horizontal line faintly, and cancel the horizontal line to press the 2 key.
Check of High Voltage	Signal generator DC voltmeter Remote control unit	CRT anode Chassis GND		<ol style="list-style-type: none"> 1. Receive a any broadcast. 2. Push the "ZOOM" key and select the FULL mode. 3. Select 2.V/C from the SERVICE MENU. 4. Select 1.CUT OFF with Function UP/DOWN key. 5. Show one horizontal line with the 1 key. 6. Turn the SCREEN VR, the whole black screen display. 7. Connect a DC voltmeter to CRT ANODE and chassis GND. 8. Make sure that the voltage is DC 30.0kV ±1.5kV. 9. Readjust the SCREEN VR to appear the horizontal line faintly, and connect the horizontal line to press 2 key.

ADJUSTMENT OF FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS VR [In FBT]	<ol style="list-style-type: none"> 1. Receive a cross-hatch signal. Select FULL mode. 2. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. 3. Make sure that when the screen is darkened, the lines remain in good focus.



The diagram shows a rectangular control panel with two potentiometers. The top one is labeled 'FOCUS VR' and the bottom one is labeled 'SCREEN VR'. Both have a central knob and two side terminals. A signal generator symbol is shown above the FOCUS VR potentiometer.

IF CIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO	Remote control unit			<ul style="list-style-type: none"> Under normal conditions, no adjustment is required. 1. Receive any broadcast. 2. Select 1.IF from the SERVICE MENU. 3. Check the characters colour of the JUST REFERENCE displayed to yellow.

VCO(QW) ***.** MHz ← fv

TOO HIGH

ABOVE REFERENCE

JUST REFERENCE ← YELLOW

BELOW REFERENCE

TOO LOW

: EXIT

VSM PRESET ADJUST SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
Setting of VSM PRESET	Remote control unit		1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. B DRIVE	1. Select 5.VSM PRESET from the SERVICE MENU. 2. Select COOL with the MENU key of the remote control unit. 3. Adjust the FUNCTION UP/DOWN and +/- key to bring the set values of 1.BRIGHT ~ 7.B DRIVE to the values shown in the table. 4. Press the MENU key and memorize the set value. 5. Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above. 6. Press the MENU key and memorize the set value. * Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.

Vsm preset mode	COOL	NORMAL	WARM
Setting item			
1. BRIGHT SETTING VALUE	+0	+0	+0
2. CONT. SETTING VALUE	+12	+10	+2
3. COLOUR SETTING VALUE	+6	+0	-2
4. SHARP SETTING VALUE	+0	+0	-2
5. HUE SETTING VALUE	+0	+0	+0
6. R DRIVE SETTING VALUE	-20	+0	+16
7. B DRIVE SETTING VALUE	+23	+0	-13

SETTING VALUES OF VSM PRESET

VIDEO / CHROMA CIRCUIT ADJUSTMENT

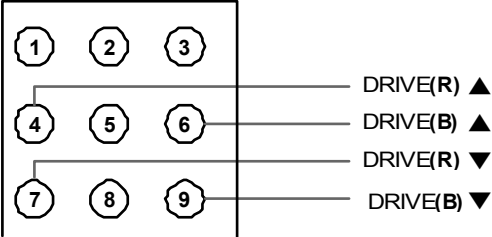
The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
 The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting Item (Adjustment Item)		Initial setting value	Colour system		Initial setting value			
			Setting item		PAL	SECAM	NT SC 3.58 NT SC 4.43	
1. CUTOFF	R	-100	5. COLOUR		+14	+0	+8	
	G	-100		6. HUE			+2	
	B	-100			7. BLACK OFFSET (SECAM)	R-Y		+0
2. DRIVE	R	+0		B-Y			+0	
	B	+0		8. SHARP (Do not adjust)		-7	←	←
3. BRIGHT		+0			9. PURITY (Do not adjust)		OFF	←
4. CONT.		-10						

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (Low Light)	Signal generator Remote control unit		1.CUT OFF (R)*** (G)*** (B)*** SCREEN VR [In FBT]	<ul style="list-style-type: none"> ● Set the PICTURE MODE to NORMAL. 1. Receive a black and white signal (colour off). 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.CUT OFF with the FUNCTION UP/DOWN key. 4. Push the "ZOOM" key and select the "PANORAMIC" mode. 5. Show one horizontal line with the 1 key. 6. Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green or blue colour faintly visible. 7. Press 4~9 key, and bring out the other 2 colours and make one horizontal line visible in white. 8. Turn the SCREEN VR and bring one white horizontal line faintly visible. 9. Press 2 key, turn off 1.CUT OFF screen. 10. Press the MENU key and memorize the set value.

Remote Control Unit

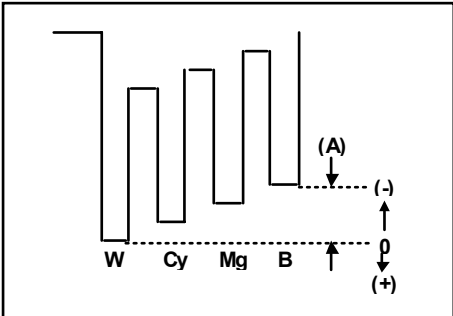
H.LINE ON	H.LINE OFF	
①	②	③
R CUTOFF▲	G CUTOFF▲	B CUTOFF▲
④	⑤	⑥
R CUTOFF▼	G CUTOFF▼	B CUTOFF▼
⑦	⑧	⑨

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (High Light)	Signal generator Remote control unit		2.DRIVE (R) * * * (B) * * *	<ul style="list-style-type: none"> ● The adjustment for Low Light WHITE BALANCE should be finished. ● Set the PICTURE MODE to NORMAL. <ol style="list-style-type: none"> 1. Receive a black and white signal (colour off). 2. Select 2.V/C from the SERVICE MENU. 3. Select 2.DRIVE with the FUNCTION UP/DOWN key. 4. Change the screen colour to white with 4 key or 7 key (Drive of Red), 6 key or 9 key (Drive of Blue). 5. Press the MENU key, and memorize the set values.
<div style="border: 1px solid black; width: fit-content; margin: 0 auto; padding: 2px;">REMOTE CONTROL UNIT</div> 				
Adjustment of SUB BRIGHT	Remote control unit		3.BRIGHT	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 3.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION +/- key. 5. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONTRAST	Remote control unit		4.CONT.	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 4.CONT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION +/- key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

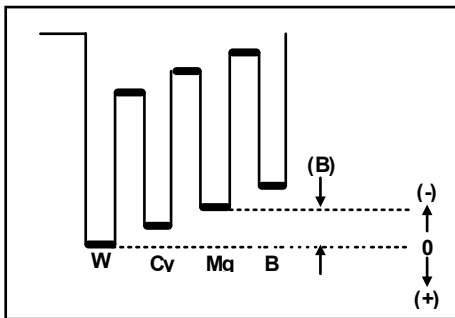
AV28CT1EKS / AV28CT1EKB
 AV28CT1EPS / AV28CT1EPB
 AV28CT1EIS

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR I	Remote control unit		5.COLOUR (PAL~NTSC) PAL COLOUR	<p>[Method of adjustment without measuring instrument]</p> <p>(PAL COLOUR)</p> <ol style="list-style-type: none"> 1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.
			SECAM COLOUR [Only AV28CT1EPS AV28CT1EPB]	<p>(SECAM COLOUR)</p> <ol style="list-style-type: none"> 1. Receive a SECAM broadcast. 2. Make fine adjustment of SECAM COLOUR in the same manner as for above.
			NTSC COLOUR	<p>(NTSC 3.58 COLOUR)</p> <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
				<p>(NTSC 4.43 COLOUR)</p> <ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	Signal generator Oscilloscope Remote control unit	TP-47B TP-E(↔) [CRT SOCKET PWB]	5.COLOUR (PAL~NTSC) PAL COLOUR	<p>[Method of adjustment using measuring instrument]</p> <p>(PAL COLOUR)</p> <ol style="list-style-type: none"> 1. Receive a PAL full field colour bar signal (75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E(↔). 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to +6V. 7. Press the MENU key and memorize the setting value. <div data-bbox="1018 808 1398 958" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>VOLTAGE (W-B)</p> <hr style="border: 1px solid black;"/> <p>+6V</p> </div>
			SECAM COLOUR [Only AV28CT1EPS AV28CT1EPB]	<p>(SECAM COLOUR)</p> <ol style="list-style-type: none"> 1. Receive a SECAM full field colour bar signal(75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ key. 3. Adjust SECAM COLOUR and bring the value of (A) in the illustration to -5V. 4. Press the MENU key and memorize the setting value. <div data-bbox="1011 1232 1398 1382" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>VOLTAGE (W-B)</p> <hr style="border: 1px solid black;"/> <p>-5V</p> </div>
			NTSC COLOUR	<p>(NTSC 3.58 COLOUR)</p> <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key. 3. Adjust NTSC 3.58 COLOUR and bring the value of (A) in the illustration to 0V (Voltage difference between white(W) and blue(B)). 4. Press the MENU key and memorize the setting value. <p>(NTSC 4.43 COLOUR)</p> <ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB HUE I	Remote control unit		6. HUE	[Method of adjustment without measuring instrument]
			NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V / C from the SERVICE MENU. 3. Select 6. HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key. 5. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. 6. Press the MENU key and memorize the set value.
			NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of SUB HUE II	Signal generator	TP-47B TP-E(↙)	6. HUE	[Method of adjustment using measuring instrument]
	Oscilloscope Remote control unit	[CRT SOCKET PWB]	NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 6. HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E(↙) 6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to -4V (voltage difference between white (W) and magenta (Mg)). 7. Press the MENU key and memorize the setting value
			NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.



[Only AV28CT1EPS / AV28CT1EPB]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BLACK OFFSET (SECAM) I	Remote control unit		7. BLACK OFFSET (R-Y) *** (B-Y) ***	<p>[Method of adjustment without measuring instrument]</p> <ol style="list-style-type: none"> 1. Receive a SECAM broadcast. 2. Select 2.V/C from SERVICE MENU. 3. Select 7. BLACK OFFSET with the FUNCTION UP/DOWN key. 4. Set the initial setting value for BLACK OFFSET (R-Y) and (B-Y) with 4 and 7 or 6 and 9 keys of the remote control. 5. If the picture is not the best with the initial setting value, make fine adjustment until you get the best picture. 6. Press the MENU key and memorize the setting value.
Adjustment of BLACK OFFSET (SECAM) II	Signal generator Oscilloscope Remote control unit	35 PIN (R-Y) 36 PIN (B-Y) IC-301 ON MAIN PWB	7. BLACK OFFSET (R-Y) *** (B-Y) ***	<p>[Method of adjustment using measuring instrument]</p> <ol style="list-style-type: none"> 1. Receive a SECAM COLOUR bar signal (full field colour bar 75% white). 2. Select 2.V/C from SERVICE MENU. 3. Select 7.BLACK OFFSET with the FUNCTION UP/DOWN key. 4. Connect the oscilloscope between 35 pin of IC-301 and TP-E (↗). 5. By using 4 and 7 keys of the remote control, adjust the BLACK OFFSET (R-Y) so that it becomes the waveform changes from (a) to (b) shown in the figure. 6. Connect the oscilloscope between 36 pin of IC-301 and TP-E. 7. By using 6 and 9 keys of the remote control, adjust the BLACK OFFSET (B-Y) so that it becomes the waveform changes from (c) to (d) shown in the figure. 8. If the picture is not the best with the adjusted picture, make fine adjustment until you get the best picture. 9. Press the MENU key and memorize the setting value.
<p>[R-Y]</p>				
<p>[B-Y]</p>				

DEFLECTION CIRCUIT ADJUSTMENT

There are 7 modes of the adjustment.

(1) 50Hz mode (①PANORAMIC ②FULL ③REGULAR ④14:9 ZOOM ⑤16:9 ZOOM ⑥16:9 ZOOM SUB TITLE)

(2) 60Hz mode (each aspect mode) Depending upon the kind of signals (vertical frequency 50Hz / 60Hz).

- The adjustment using the remote control unit is made on the basis of the initial setting values.
- When the 50Hz PANORAMIC mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Initial setting value (1/2)

Setting item	Adjustment name	Initial setting value							
		PANORAMIC		14:9 ZOOM		16:9 ZOOM		16:9 ZOOM SUB TITLE	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	-10	-1	+0	+0	+1	+0	+0	+0
2. V-SIZE	Vertical height	+8	-2	+18	+15	+38	+37	+42	+40
3. SUBTITLE	SUBTITLE BOTTOM Vertical Linearity	-8	+0	+0	+0	+0	+0	+15	+15
4. H-CENT	Horizontal center	-9	+5	+1	+1	+0	+0	+0	+0
5. H-SIZE	Horizontal width	+10	+0	-12	-14	-6	-6	-6	-6
6. EW-PIN	Side pin correction	-23	+0	-1	-1	-1	-1	-2	-1
7. TRAPEZ	Trapezoidal distortion correction	+2	+0	-1	+0	-1	+0	+0	+0
8. EW.COR.L	CORNER PIN correction Low side	+0	+0	+0	+0	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+0	+0	+0	+0	+0	+0	+0	+0
10.V.S-COR	Vertical height correction	+4	+0	+0	+0	+0	+0	+4	+0
11.V-LIN	Vertical Linearity	-1	+0	+0	+0	+1	+0	+0	+0
12.H-BLK-R	BLANKING POSITION of Right side	+0	+0	+123	+124	+0	+0	+0	+0
13.H-BLK-L	BLANKING POSITION of Left side	+0	+0	+36	+27	+0	+0	+0	+0
14.V-EHT (Do not adjust)	V size correction level caused by EHT change	-4	+0	+0	+0	+0	+0	+0	+0
15.H-EHT (Do not adjust)	H size correction level caused by EHT change	-3	+0	+0	+0	+0	+0	+0	+0
16.EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0	+0	+0	+0	+0

Initial setting value (2/2)

Setting item	Adjustment name	Initial setting value			
		FULL		REGULAR	
		50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	+0	+0	+0	+0
2. V-SIZE	Vertical height	-6	-6	-3	-3
3. SUBTITLE	SUBTITLE BOTTOM Vertical Linearity	+0	+0	+0	+0
4. H-CENT	Horizontal center	+0	+0	+1	+1
5. H-SIZE	Horizontal width	-6	-6	-21	-21
6. EW-PIN	Side pin correction	+0	+0	+0	+0
7. TRAPEZ	Trapezoidal distortion correction	+0	+0	-1	+0
8. EW.COR.L	CORNER PIN correction Low side	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+0	+0	+0	+0
10.V.S-COR	Vertical height correction	+0	+0	+0	+0
11.V-LIN	Vertical Linearity	+0	+0	+0	+0
12.H-BLK-R	BLANKING POSITION of Right side	+0	+0	+123	+124
13.H-BLK-L	BLANKING POSITION of Left side	+0	+0	+36	+27
14.V-EHT (Do not adjust)	Vsize correction level caused by EHT change	+0	+0	+0	+0
15.H-EHT (Do not adjust)	Hsize correction level caused by EHT change	+0	+0	+0	+0
16.EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V-SHIFT	Signal generator Remote control unit		1.V- SHIFT	<p>[50Hz PANORAMIC mode]</p> <ol style="list-style-type: none"> 1. Receive a circle pattern signal of vertical frequency 50Hz. 2. Select 4.DEF from the SERVICE MENU. 3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key. 4. Adjust V-SHIFT to make A = B. 5. Press the MENU key and memorize the set value. <p>* For JK chassis Set all data except for "PANORAMIC" to "0". Adjust V.CENTER of other aspects with "PANORAMIC" mode while also taking their positions into consideration. If you want to obtain horizontal lines with less noise on the screen, adjust V.LIN instead of "PANORAMIC" mode.</p>
Adjustment of V-SIZE & SUBTITLE			2.V-SIZE 3.SUBTITLE	<ol style="list-style-type: none"> 6. Receive a cross-hatch signal. 7. Select 2.V-SIZE and set the initial setting value. 8. Adjust V-SIZE and make sure that the vertical screen size of the picture size is in the bellow table. 9. Press the MENU key and memorize the set value. 10. When adjust the [SUBTITLE], select "3.SUBTITLE" and adjust to under part of picture size. 11. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below. 12. Press the MENU key and memorize the set value.

The diagram shows a rectangular screen with a circle inside. Two horizontal dashed lines are drawn across the circle. The vertical distance from the top edge of the screen to the upper dashed line is labeled 'A'. The vertical distance from the lower dashed line to the bottom edge of the screen is labeled 'B'. Arrows indicate the measurement directions.

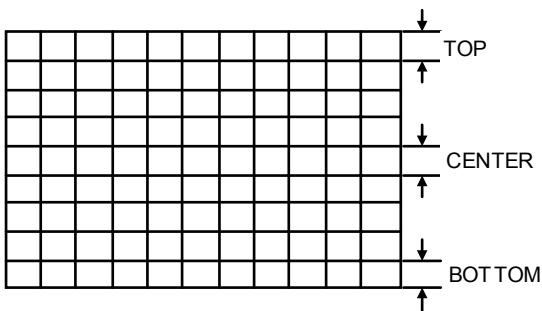
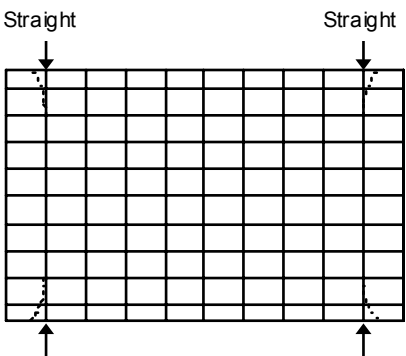
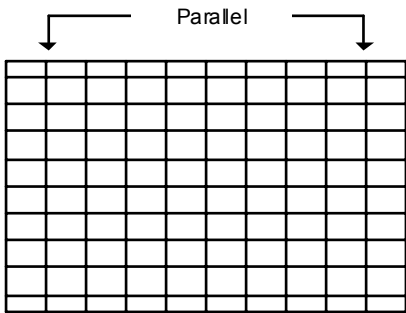
The diagram shows a grid representing a picture on a screen. The outer dimensions are labeled 'Screen size' (both horizontally and vertically). The inner dimensions of the grid are labeled 'Picture size 100%' (both horizontally and vertically). Dashed lines indicate the boundaries of the picture within the screen.

ASPECT MODE	PANORAMIC	14 : 9 ZOOM	16 : 9 ZOOM	16 : 9 ZOOM SUB TITLE	FULL	REGULAR
SCREEN TOP	87%	80%	70%	70%	92%	92%
SCREEN BOTTOM	87%	80%	70%	83%	92%	92%

[SCREEN SIZE]

Item	Measuring instrument	Test point	Adjustment part	Description																	
Adjustment of HORIZONTAL CENTER			4.H-CENT.	13. Receive a circle pattern signal. 14. Select 4.H-CENT and set the initial setting value. 15. Adjust H-CENT to make C=D. 16. Press the MENU key and memorize the set value.																	
<p>The diagram shows a rectangular screen with a circle inside. Two vertical dashed lines are drawn through the circle, one on the left and one on the right. The distance from the left edge of the screen to the left dashed line is labeled 'C'. The distance from the right edge of the screen to the right dashed line is labeled 'D'. The total width of the screen is labeled 'L'. The vertical positions of the dashed lines are marked as '90%' on both sides.</p>																					
Adjustment of HORIZONTAL SIZE			5.H-SIZE	17. Receive a circle pattern signal. 18. Select 5.H-SIZE and set the initial setting value. 19. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the below table. 20. Press the MENU key and memorize the set value. * The numeric of the REGULAR and 14:9 ZOOM modes are shown the length of the 90% horizontal size position(L) as shown in the figure above. 21. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size of the each ASPECT mode is in the below table. 22. Press the MENU key and memorize the set value.																	
<table border="1"> <thead> <tr> <th>ASPECT MODE</th> <th>PANORAMIC</th> <th>14:9 ZOOM</th> <th>16:9 ZOOM</th> <th>16:9 ZOOM SUB TITLE</th> <th>FULL</th> <th>REGULAR</th> </tr> </thead> <tbody> <tr> <td rowspan="2">H SIZE</td> <td>PAL=95%</td> <td rowspan="2">L=495mm</td> <td rowspan="2">92%</td> <td rowspan="2">92%</td> <td rowspan="2">92%</td> <td rowspan="2">L=440mm</td> </tr> <tr> <td>NTSC=94%</td> </tr> </tbody> </table>							ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUB TITLE	FULL	REGULAR	H SIZE	PAL=95%	L=495mm	92%	92%	92%	L=440mm	NTSC=94%
ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUB TITLE	FULL	REGULAR															
H SIZE	PAL=95%	L=495mm	92%	92%	92%	L=440mm															
	NTSC=94%																				
[SCREEN SIZE]																					
Adjustment of EW-PIN			6.EW-PIN	23. Select 6.EW-PIN and set the initial setting value 24. Adjust EW-PIN and make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. 25. Press the MENU key and memorize the set value.																	
<p>The diagram shows a 10x10 grid. Two vertical dashed lines are drawn through the grid, one on the left and one on the right. Arrows point inward from the left and right edges of the grid towards these dashed lines, indicating the adjustment process. The word 'Straight' is written above the grid.</p>																					

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ	Signal generator Remote control unit		7. TRAPEZ	26. Receive a cross-hatch signal. 27. Select 7.TRAPEZ with the FUNCTION UP/DOWN key. 28. Set the initial setting value of TRAPEZ with the FUNCTION - or + key. 29. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel . 30. Press the MENU key and memorize the set value.
Adjustment of EW. CORNER L/H	Signal generator Remote control unit		8.EW. COR. L 9.EW. COR. H	31. Select 8.EW. COR. L with the FUNCTION UP / DOWN key. 32. Set the initial setting value of EW. COR. L with the FUNCTION - or + key. 33. Adjust EW. COR. L, and bring the straight line at the low corner. 34. Select 9.EW. COR. H with the FUNCTION UP / DOWN key. 35. Set the initial setting value of EW. COR. H with the FUNCTION - or + key. 36. Adjust EW. COR. H, and bring the straight line at the upper corner. 37. Press the MENU key and memorize the set value.
Adjustment Of VERTICALS CORRECTION & VERTICAL LINEARITY			10. V-S.CR 11. V-LIN	<ul style="list-style-type: none"> ● When the vertical linearity has been deteriorated remarkably, perform the following steps. 38. Receive a cross-hatch signal. 39. Select 11.V-LIN with the FUNCTION UP / DOWN key. 40. Set the initial setting value of 11.V-LIN with the FUNCTION - / + key. 41. Select 10.V-S.COR with the FUNCTION UP / DOWN key. 42. Set the initial setting value of 10.V-S.COR with the FUNCTION - / + key. 43. Adjust 11.V-LIN and 10.V-S.COR so that the spaces of each line on TOP, CENTER and BOTTOM become uniform. <p>NOTE : Do not adjust "PANORAMIC" & "16 : 9 ZOOM SUBTITLE" mode.</p> <ul style="list-style-type: none"> * For JK chassis On account of CRT (ITC), set V-S.COR except for "PANORAMIC" mode to the minimum. When adjusting "PANORAMIC" mode, slightly expand the space at the CENTER while taking the circularity at the CENTER into consideration.

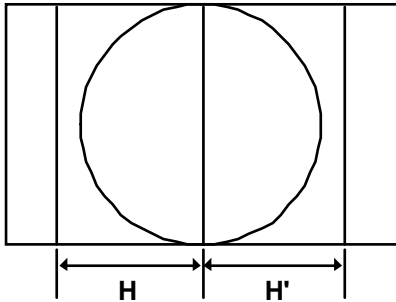


AV28CT1EPS / AV28CT1EPB
 AV28CT1EKS / AV28CT1EKB
 AV28CT1EIS

Item	Measuring instrument	Test point	Adjustment part	Description
				At first the adjustment in 50Hz-PANORAMIC mode should be done, then the data for the other zoom mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz (TSC EXT mode) PANORAMIC mode. If the adjustment in 50Hz each zoom mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

H. BLANKING ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of HORIZONTAL BLANKING			H.BLK Capacitor [On MAIN PWB]	<ol style="list-style-type: none"> 1. Receive the PAL circle pattern signal. 2. Select 4.DEF from the SERVICE MENU. 3. Select the aspect [14:9 ZOOM] mode. 4. Select 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the right side is displayed. 5. Select 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed. 6. Press the MENU key and memorize the set value. 7. Select the aspect [REGULAR] mode. 8. Select 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H'.BLANKING so that 92% of the picture on the right side is displayed. 9. Select 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed. 10. Press the MENU key and memorize the set value.



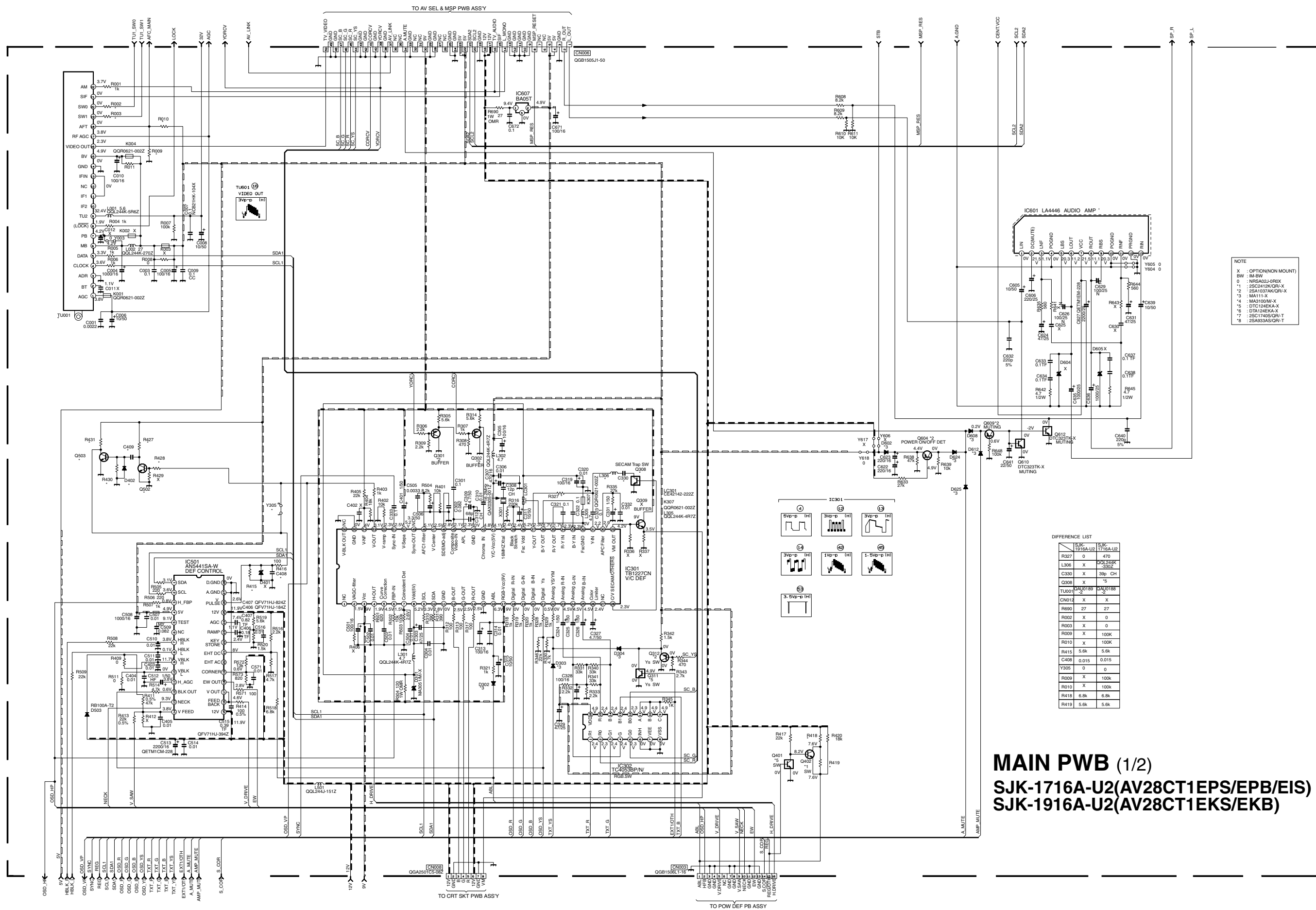
AUDIO CIRCUIT ADJUSTMENT

- Do not touch 3.AUDIO (1.CONC LIMIT, 2.A2 ID THR, 3.ALC, 4.BASS, 5.TREBLE) of the SERVICE MENU as it requires no adjustment.

3. AUDIO

Setting item	Variable range	fixed value
1. CONC LIMIT(<i>Do not adjust</i>)	00H ~ FFH	0AH
2. A2 ID THR(<i>Do not adjust</i>)	00H ~ FFH	19H
3. ALC (<i>Do not adjust</i>)	20MSEC → 2SEC → 4SEC → 8SEC	_____
4. BASS (<i>Do not adjust</i>)	-17 ~ +17	+0
5. TREBLE (<i>Do not adjust</i>)	-17 ~ +17	+0

CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/2]



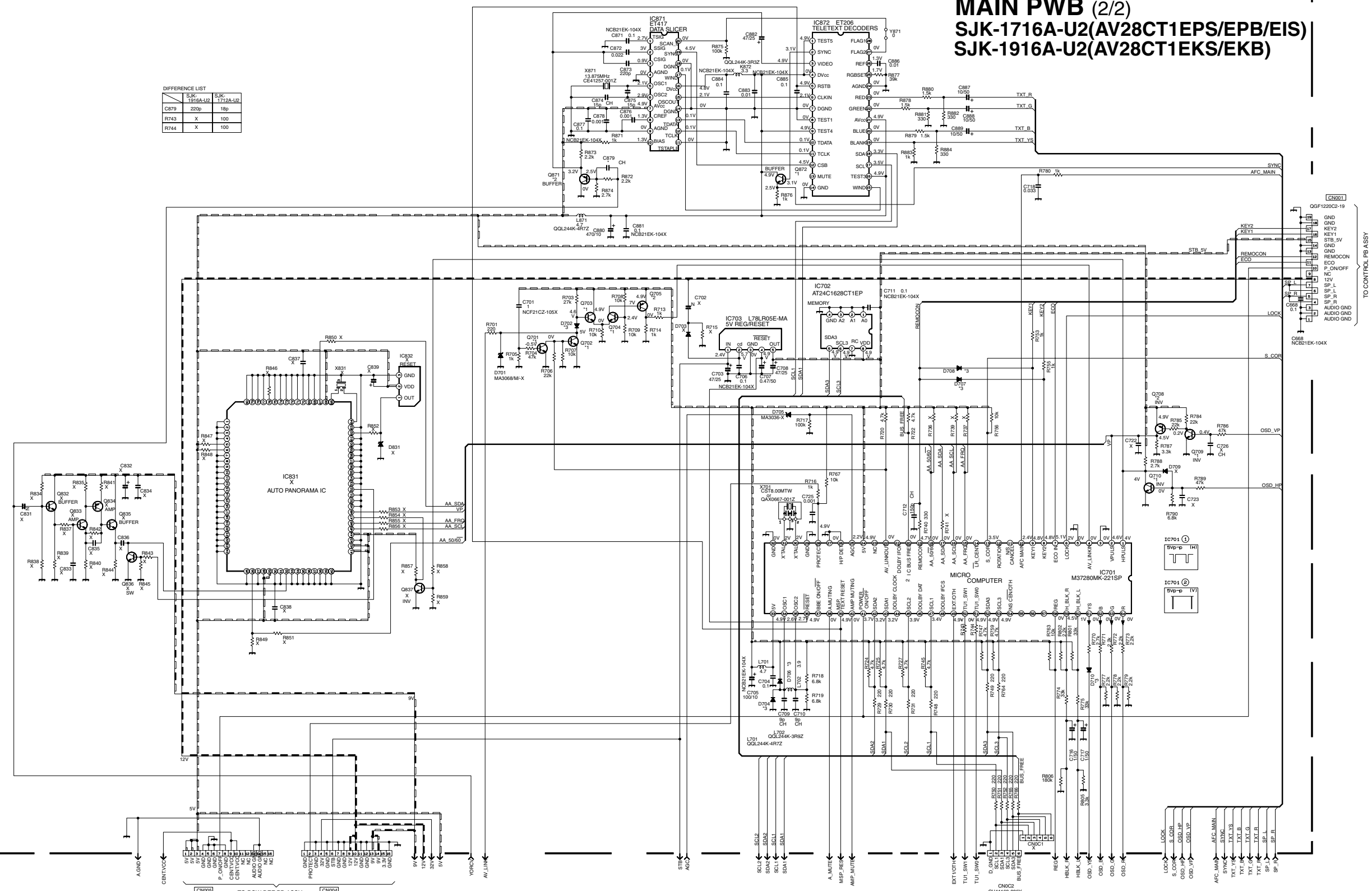
MAIN PWB (1/2)
SJK-1716A-U2(AV28CT1EPS/EPB/EIS)
SJK-1916A-U2(AV28CT1EKS/EKB)

MAIN PWB CIRCUIT DIAGRAM [2/2]

MAIN PWB (2/2)
SJK-1716A-U2(AV28CT1EPS/EPB/EIS)
SJK-1916A-U2(AV28CT1EKS/EKB)

DIFFERENCE LIST

	SJK-1916A-U2	SJK-1716A-U2
C879	220p	10p
R743	X	100
R744	X	100



NOTE

X : OPTION(NON MOUNT)

BW : M-BW

0 : NRS402J-GRX

1 : 2SC2410K-GRX

2 : 2SA1037AK-GRV-X

3 : MA111-X

4 : MA3100M-X

5 : DT124EKA-X

6 : DT124EKA-X

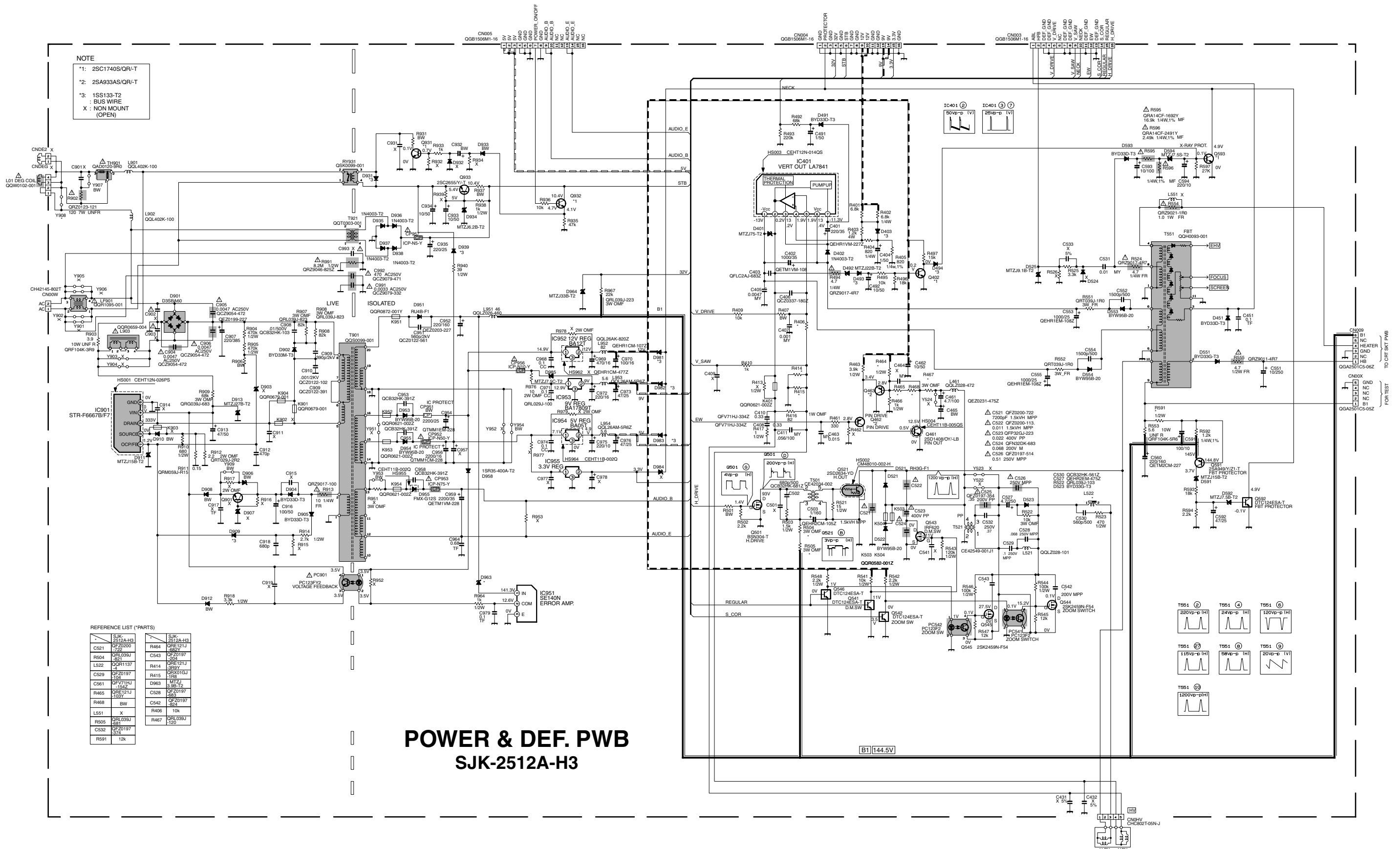
7 : 2SC1740S-GRV-T

8 : 2SA933AS-GRV-T

POWER & DEF. PWB CIRCUIT DIAGRAM

AV28CT1EKS / AV28CT1EKB
AV28CT1EPS / AV28CT1EPB
AV28CT1EIS

AV28CT1EKS / AV28CT1EKB
AV28CT1EPS / AV28CT1EPB
AV28CT1EIS



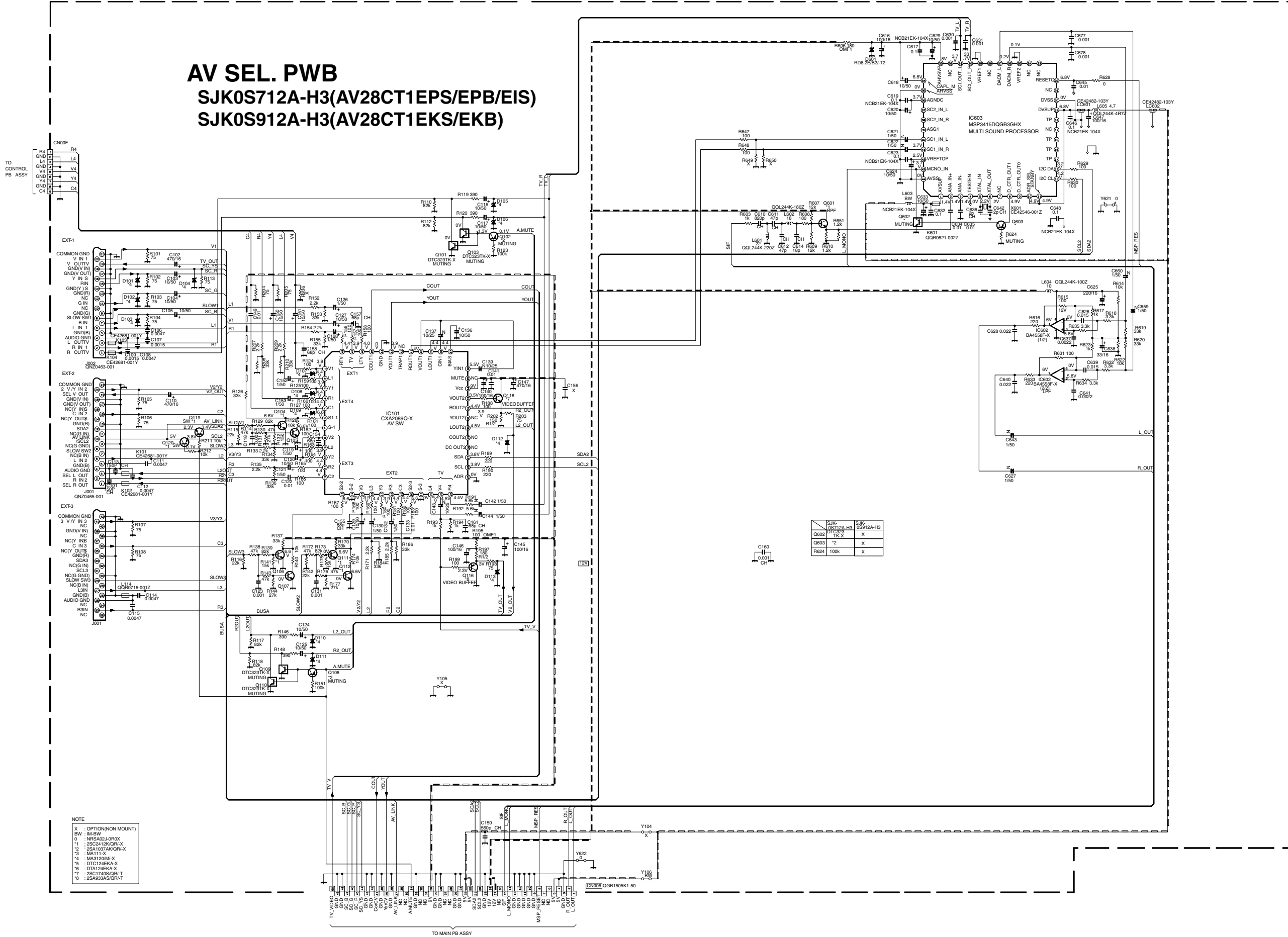
POWER & DEF. PWB
SJK-2512A-H3

REFERENCE LIST (*PARTS)

C521	SJK OF20200-122	R464	SJK ORE121J-324
R504	QRL039J-381	C543	QF20197-324
L522	QF1137-4	R414	ORE121J-381Y
C529	QF20197-104	R415	QF1011GJ-118
C561	QFV71HJ-103	D963	MTZJ 3.95-T2
R465	ORE121J-103	C528	QF20197-324
R468	BW	C542	QF20197-324
L551	X	R406	10k
R505	QRL039J-381	R467	QRL039J-120
C532	QF20197-3174		
R591	12k		

AV SEL. PWB CIRCUIT DIAGRAM

AV SEL. PWB
SJK0S712A-H3(AV28CT1EPS/EPB/EIS)
SJK0S912A-H3(AV28CT1EKS/EKB)



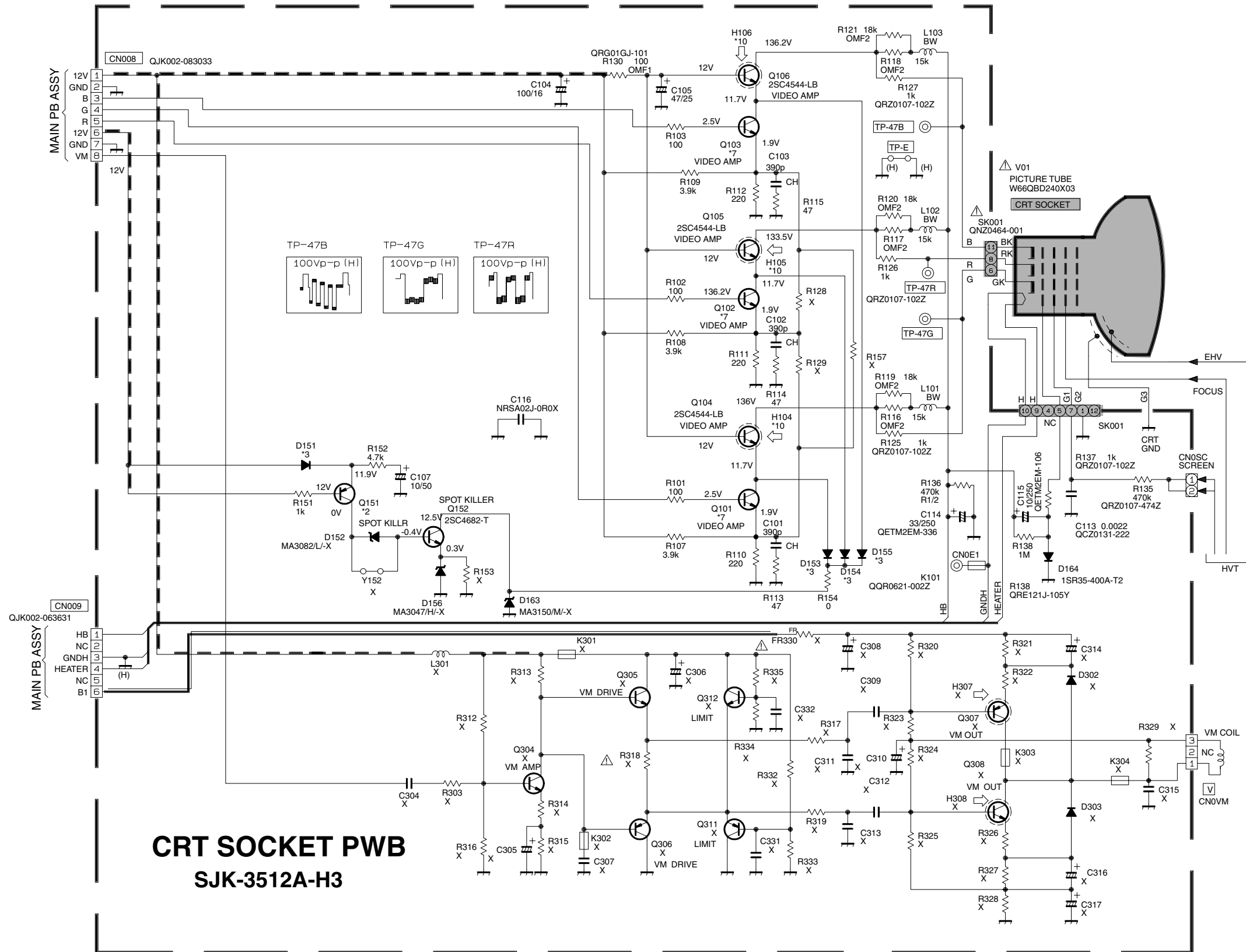
	SJK-0S712A-H3	SJK-0S912A-H3
Q602	X	X
Q603	X	X
R624	X	X

NOTE
X : OPTION(NON MOUNT)
BW : BK-SW
0 : NRS402J-OROX
*2 : 2SC2412K-GR-X
*3 : MA111-X
*4 : MA320M-X
*5 : DTC124EKA-X
*6 : DT1A124KA-X
*7 : 2SC1746S-GR-T
*8 : 2SA933AS-GR-T

CRT SOCKET PWB CIRCUIT DIAGRAM

AV28CT1EKS / AV28CT1EKB
AV28CT1EPS / AV28CT1EPB
AV28CT1EIS

AV28CT1EKS / AV28CT1EKB
AV28CT1EPS / AV28CT1EPB
AV28CT1EIS



NOTE

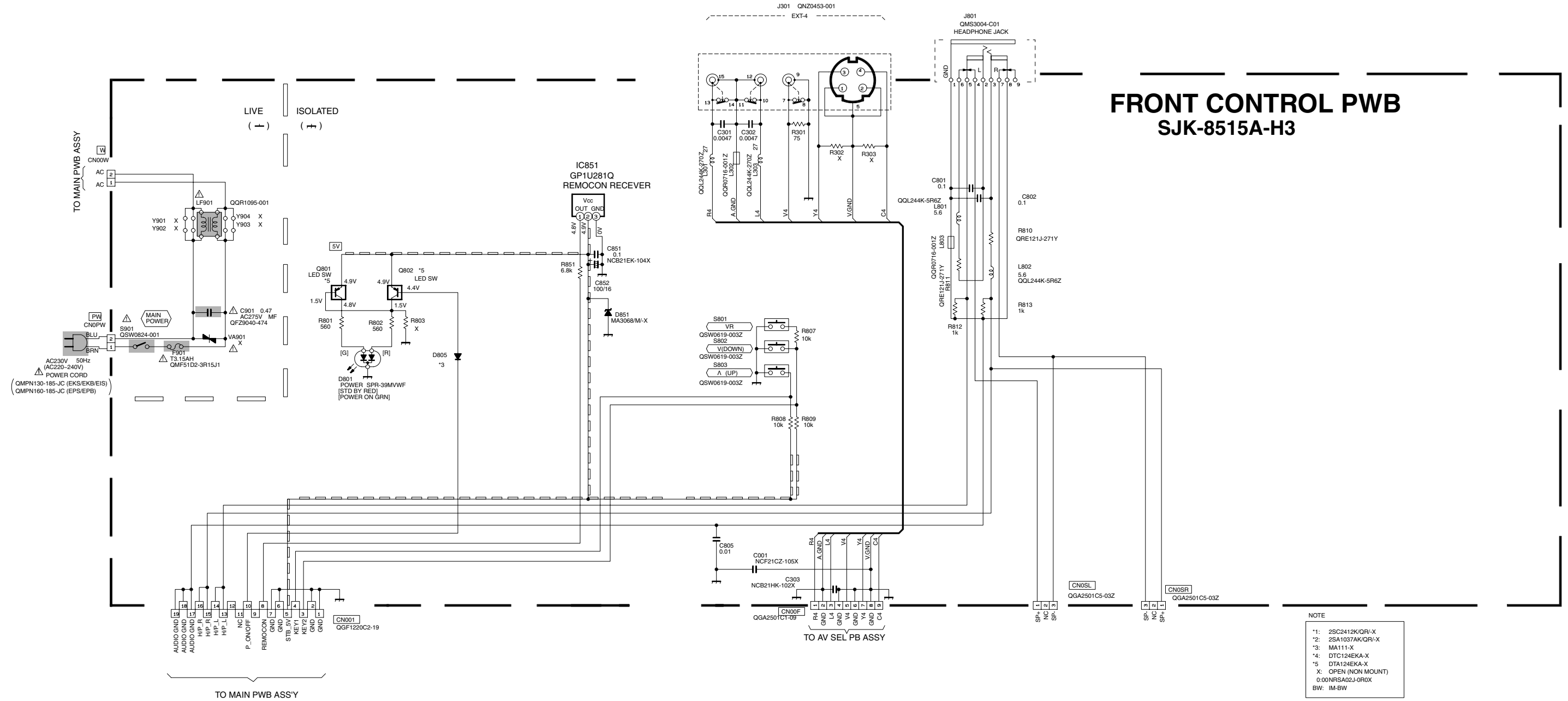
X	: OPTION (NON MOUNTED)
BW	: IM-BW
0	: NRSA02J-0R0X
*1	: 2SC242K/QR/-X
*2	: 2SA1037AK/QR/-X
*3	: MA111-X
*4	: MA3100/M-X
*5	: DTC124EKA-X
*6	: DTA124EKA-X
*7	: 2SC1740S/QR/-T
*8	: 2SA933AS/QR/-T
*9	: CE41492-001Z
*10	: CEHP00N-001Q
↑	: LOW B GND
⬆	: HIGH B GND

CRT SOCKET PWB
SJK-3512A-H3

FRONT CONTROL PWB CIRCUIT DIAGRAM

AV28CT1EKS/AV28CT1EKB
AV28CT1EPS/AV28CT1EPB
AV28CT1EIS

AV28CT1EKS/AV28CT1EKB
AV28CT1EPS/AV28CT1EPB
AV28CT1EIS



PARTS LIST

CAUTION

- The parts identified by the \triangle symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

AV28CT1EKS / AV28CT1EKB

PRINTED WIRING BOARD PARTS LIST

■ MAIN P.W. BOARD ASS'Y (SJK-1916A-U2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1001	NRSA02J-102X	MG R	1kΩ 1/10W J
R1004	NRSA02J-102X	MG R	1kΩ 1/10W J
R1005	NRSA02J-102X	MG R	1kΩ 1/10W J
R1006	NRSA02J-102X	MG R	1kΩ 1/10W J
R1007	NRSA02J-104X	MG R	100kΩ 1/10W J
R1008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1304	QRG01GJ-121	OM R	120Ω 1W J
R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1307	NRSA02J-102X	MG R	1kΩ 1/10W J
R1308	NRSA02J-471X	MG R	470Ω 1/10W J
R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1310-11	NRSA02J-391X	MG R	390Ω 1/10W J
R1312-13	NRSA02J-101X	MG R	100Ω 1/10W J
R1314	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1316	NRSA02J-224X	MG R	220kΩ 1/10W J
R1317	NRSA02J-101X	MG R	100Ω 1/10W J
R1318	NRSA02J-102X	MG R	1kΩ 1/10W J
R1319	NRSA02J-102X	MG R	1kΩ 1/10W J
R1320	NRSA02J-102X	MG R	1kΩ 1/10W J
R1321	NRSA02J-102X	MG R	1kΩ 1/10W J
R1327	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1328	NRSA02J-102X	MG R	1kΩ 1/10W J
R1329	NRSA02J-102X	MG R	1kΩ 1/10W J
R1330	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1331	NRSA02J-333X	MG R	33kΩ 1/10W J
R1332-33	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1335	NRSA02J-273X	MG R	27kΩ 1/10W J
R1340-41	NRSA02J-333X	MG R	33kΩ 1/10W J
R1342	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1343	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1344	NRSA02J-471X	MG R	470Ω 1/10W J
R1345	NRSA02J-102X	MG R	1kΩ 1/10W J
R1346	NRSA02J-223X	MG R	22kΩ 1/10W J
R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1403	NRSA02J-102X	MG R	1kΩ 1/10W J
R1404	NRSA02J-183X	MG R	18kΩ 1/10W J
R1405	NRSA02J-223X	MG R	22kΩ 1/10W J
R1409	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1411	NRVA02D-473X	MF R	47kΩ 1/10W D
R1413	NRVA02D-223X	MF R	22kΩ 1/10W D
R1414	NRVA02D-101X	MF R	100Ω 1/10W D
R1415	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1416	NRSA02J-101X	MG R	100Ω 1/10W J
R1417	NRSA02J-223X	MG R	22kΩ 1/10W J
R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1419	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1420	NRSA02J-183X	MG R	18kΩ 1/10W J
R1501	NRSA02J-621X	MG R	620Ω 1/10W J
R1502	NRSA02J-103X	MG R	10kΩ 1/10W J
R1503	NRSA02J-104X	MG R	100kΩ 1/10W J
R1504	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1505-06	NRSA02J-221X	MG R	220Ω 1/10W J
R1507	NRSA02J-102X	MG R	1kΩ 1/10W J
R1508	NRSA02J-223X	MG R	22kΩ 1/10W J
R1509	NRSA02J-223X	MG R	22kΩ 1/10W J
R1511	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1514	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1516	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1517	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1518	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1571	NRSA02J-101X	MG R	100Ω 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1572	NRSA02J-133X	MG R	13kΩ 1/10W J
R1573	NRSA02J-821X	MG R	82Ω 1/10W J
R1608-09	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1610-11	NRSA02J-103X	MG R	10kΩ 1/10W J
R1633	NRSA02J-273X	MG R	27kΩ 1/10W J
R1635	NRSA02J-561X	MG R	560Ω 1/10W J
R1638	NRSA02J-473X	MG R	47kΩ 1/10W J
R1639	NRSA02J-103X	MG R	10kΩ 1/10W J
R1642	QRK126J-4R7X	C R	4.7Ω 1/2W J
R1644	NRSA02J-561X	MG R	560Ω 1/10W J
R1645	QRK126J-4R7X	C R	4.7Ω 1/2W J
R1648	NRSA02J-104X	MG R	100kΩ 1/10W J
R1690	QRG01GJ-270	OM R	27Ω 1W J
R1701	NRSA02J-221X	MG R	220Ω 1/10W J
R1703	NRSA02J-273X	MG R	27kΩ 1/10W J
R1704	NRSA02J-473X	MG R	47kΩ 1/10W J
R1705	NRSA02J-102X	MG R	1kΩ 1/10W J
R1706	NRSA02J-223X	MG R	22kΩ 1/10W J
R1707-10	NRSA02J-103X	MG R	10kΩ 1/10W J
R1713	NRSA02J-102X	MG R	1kΩ 1/10W J
R1714	NRSA02J-102X	MG R	1kΩ 1/10W J
R1716	NRSA02J-102X	MG R	1kΩ 1/10W J
R1717	NRSA02J-104X	MG R	100kΩ 1/10W J
R1718	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1719	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1720	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1724-25	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1727	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1729-31	NRSA02J-221X	MG R	220Ω 1/10W J
R1740	NRSA02J-331X	MG R	330Ω 1/10W J
R1745	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1747	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1748-52	NRSA02J-221X	MG R	220Ω 1/10W J
R1753	NRSA02J-102X	MG R	1kΩ 1/10W J
R1755	NRSA02J-102X	MG R	1kΩ 1/10W J
R1756	NRSA02J-103X	MG R	10kΩ 1/10W J
R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1763	NRSA02J-103X	MG R	10kΩ 1/10W J
R1764-66	NRSA02J-221X	MG R	220Ω 1/10W J
R1767	NRSA02J-103X	MG R	10kΩ 1/10W J
R1770	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1771-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1774-75	NRSA02J-333X	MG R	33kΩ 1/10W J
R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1780	NRSA02J-102X	MG R	1kΩ 1/10W J
R1784	NRSA02J-223X	MG R	22kΩ 1/10W J
R1785	NRSA02J-223X	MG R	22kΩ 1/10W J
R1786	NRSA02J-473X	MG R	47kΩ 1/10W J
R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1789	NRSA02J-473X	MG R	47kΩ 1/10W J
R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1801	NRSA02J-333X	MG R	33kΩ 1/10W J
R1802	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1805	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1806	NRSA02J-184X	MG R	180kΩ 1/10W J
R1871	NRSA02J-102X	MG R	1kΩ 1/10W J
R1872-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1874	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1875	NRSA02J-104X	MG R	100kΩ 1/10W J
R1876	NRSA02J-102X	MG R	1kΩ 1/10W J
R1877	NRSA02J-393X	MG R	39kΩ 1/10W J
R1878-80	NRSA02J-152X	MG R	1.5kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1881-82	NRSA02J-331X	MG R	330Ω 1/10W J
R1883	NRSA02J-102X	MG R	1kΩ 1/10W J
R1884	NRSA02J-331X	MG R	330Ω 1/10W J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C1001	NCB21HK-222X	C CAP.	2200pF 50V K
C1003	NCB21EK-104X	C CAP.	0.1μF 25V K
C1004	QETNLCM-108Z	E CAP.	1000μF 16V M
C1005	QETNLCM-107Z	E CAP.	100μF 16V M
C1006	QETNLHM-106Z	E CAP.	10μF 50V M
C1007	NCB21HK-104X	C CAP.	0.1μF 50V K
C1008	QETNLHM-106Z	E CAP.	10μF 50V M
C1009	NCB21EK-104X	C CAP.	0.1μF 25V K
C1010	QETNLCM-107Z	E CAP.	100μF 16V M
C1301	NCB21EK-104X	C CAP.	0.1μF 25V K
C1302	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1303	QETNLEM-476Z	E CAP.	47μF 25V M
C1304	NCB21HK-103X	C CAP.	0.01μF 50V K
C1305	QETNLCM-107Z	E CAP.	100μF 16V M
C1306	NCB21HK-103X	C CAP.	0.01μF 50V K
C1307	QETNLCM-477Z	E CAP.	470μF 16V M
C1308	NDC21HJ-120X	C CAP.	12pF 50V J
C1309	QETNLHM-475Z	E CAP.	4.7μF 50V M
C1310	NCB21HK-103X	C CAP.	0.01μF 50V K
C1311	QETNLHM-106Z	E CAP.	10μF 50V M
C1312	NDC21HJ-680X	C CAP.	68pF 50V J
C1313	QETNLCM-107Z	E CAP.	100μF 16V M
C1314	NCB21HK-103X	C CAP.	0.01μF 50V K
C1315	QETNLHM-106Z	E CAP.	10μF 50V M
C1319	QETNLCM-107Z	E CAP.	100μF 16V M
C1320	NCB21HK-103X	C CAP.	0.01μF 50V K
C1321-23	NCB21EK-104X	C CAP.	0.1μF 25V K
C1324-26	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1327	QETNLHM-475Z	E CAP.	4.7μF 50V M
C1328	QETNLCM-107Z	E CAP.	100μF 16V M
C1329	QETNLEM-476Z	E CAP.	47μF 25V M
C1331	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1332	NCB21HK-103X	C CAP.	0.01μF 50V K
C1333	NCB21EK-104X	C CAP.	0.1μF 25V K
C1401	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1403-05	NCB21HK-103X	C CAP.	0.01μF 50V K
C1406	QFV71HJ-184Z	MF CAP.	0.18μF 50V J
C1407	QFV71HJ-824Z	MF CAP.	0.82μF 50V J
C1408	NCB21HK-153X	C CAP.	0.015μF 50V K
C1501	QETNLCM-107Z	E CAP.	100μF 16V M
C1502-04	NCB21HK-103X	C CAP.	0.01μF 50V K
C1505	NCB21HK-332X	C CAP.	3300pF 50V K
C1506	QETNLHM-335Z	E CAP.	3.3μF 50V M
C1507	NCB21HK-103X	C CAP.	0.01μF 50V K
C1508	QETNLCM-108Z	E CAP.	1000μF 16V M
C1509	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1510-11	NCB21HK-103X	C CAP.	0.01μF 50V K
C1512	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1513	QETMLCM-228	E CAP.	2200μF 16V M
C1514	NCB21HK-103X	C CAP.	0.01μF 50V K
C1515	QFV71HJ-394Z	MF CAP.	0.39μF 50V J
C1516	NCB21HK-103X	C CAP.	0.01μF 50V K
C1517	NCB21HK-103X	C CAP.	0.01μF 50V K
C1605	QETNLHM-106Z	E CAP.	10μF 50V M
C1606	QETNLEM-227Z	E CAP.	220μF 25V M
C1622-23	QETNLCM-227Z	E CAP.	220μF 16V M
C1624	QETNLEM-476Z	E CAP.	47μF 25V M
C1626	QENCIEM-107Z	BP E CAP.	100μF 25V M
C1627	QETNLEM-228	E CAP.	2200μF 25V M

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C1629	QENCIEM-107Z	BP E CAP.	100μF 25V M
C1631	QETNLEM-476Z	E CAP.	47μF 25V M
C1632	NCS21HJ-221X	C CAP.	220pF 50V J
C1633-34	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1635-36	QETNLEM-108Z	E CAP.	1000μF 25V M
C1637-38	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1639	QETNLHM-106Z	E CAP.	10μF 50V M
C1640	NCS21HJ-221X	C CAP.	220pF 50V J

C1641	QETNLHM-226Z	E CAP.	22μF 50V M
C1668	NCB21EK-104X	C CAP.	0.1μF 25V K
C1671	QETNLCM-107Z	E CAP.	100μF 16V M
C1672	NCB21EK-104X	C CAP.	0.1μF 25V K
C1701	NCF21CZ-105X	C CAP.	1μF 16V Z
C1708	QETNLEM-476Z	E CAP.	47μF 25V M
C1704	NCB21EK-104X	C CAP.	0.1μF 25V K
C1705	QETNLAM-107Z	E CAP.	100μF 10V M
C1706	NCB21EK-104X	C CAP.	0.1μF 25V K
C1707	QETNLHM-474Z	E CAP.	0.47μF 50V M
C1708	QETNLEM-476Z	E CAP.	47μF 25V M
C1709-10	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
C1711	NCB21EK-104X	C CAP.	0.1μF 25V K
C1712	NDC21HJ-151X	C CAP.	150pF 50V J
C1716-17	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1718	NCB21HK-333X	C CAP.	0.033μF 50V K

C1725	NCB21HK-102X	C CAP.	1000pF 50V K
C1837	NCB21EK-104X	C CAP.	0.1μF 25V K
C1839	QETNLHM-106Z	E CAP.	10μF 50V M
C1871	NCB21EK-104X	C CAP.	0.1μF 25V K
C1872	NCB21HK-223X	C CAP.	0.022μF 50V K
C1873	NDC21HJ-221X	C CAP.	220pF 50V J
C1874-75	NDC21HJ-150X	C CAP.	150pF 50V J
C1876	NCB21HK-102X	C CAP.	1000pF 50V K

C1877	NCB21EK-104X	C CAP.	0.1μF 25V K
C1878	NCB21HK-102X	C CAP.	1000pF 50V K
C1879	NDC21HJ-221X	C CAP.	220pF 50V J
C1880	QETNLAM-477Z	E CAP.	470μF 10V M
C1881	NCB21EK-104X	C CAP.	0.1μF 25V K
C1882	QETNLEM-476Z	E CAP.	47μF 25V M
C1883	NCB21HK-103X	C CAP.	0.01μF 50V K
C1884-85	NCB21EK-104X	C CAP.	0.1μF 25V K

C1886	NCB21HK-103X	C CAP.	0.01μF 50V K
C1887-89	QETNLHM-106Z	E CAP.	10μF 50V M
C1890	NCB21HK-103X	C CAP.	0.01μF 50V K

Symbol No.	Part No.	Part Name	Description
COIL			
L1001	QQL244K-5R6Z	COIL	5.6μH K
L1002	QQL244K-270Z	PEAKING COIL	
L1301-02	QQL244K-4R7Z	COIL	4.7μH K
L1305	QQL244K-4R7Z	COIL	4.7μH K
L1501	QQL244J-151Z	PEAKING COIL	
L1701	QQL244K-4R7Z	COIL	4.7μH K
L1702	QQL244K-3R9Z	COIL	3.9μH K
L1871	QQL244K-4R7Z	COIL	4.7μH K

Symbol No.	Part No.	Part Name	Description
DIODE			
D1301	MA3051/M/-X	ZENER DIODE	
D1302-04	MA111-X	SI DIODE	
D1503	RB100A-T2	SI DIODE	
D1602	MA111-X	SI DIODE	
D1608	MA111-X	SI DIODE	
D1612	MA111-X	SI DIODE	
D1624-25	MA111-X	SI DIODE	
D1701	MA3068/M/-X	ZENER DIODE	
D1702	MA111-X	SI DIODE	
D1704	MA111-X	SI DIODE	
D1705	MA3086-X	ZENER DIODE	
D1706-08	MA111-X	SI DIODE	

Symbol No.	Part No.	Part Name	Description
DIODE			
D1710	MA111-X	SI. DIODE	
TRANSISTOR			
Q1301-02	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1311	DTC124EKA-X	DIGI. TRANSISTOR	
Q1312	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1401	DTC124EKA-X	DIGI. TRANSISTOR	
Q1402	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1604	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1609	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1610	DTC323TK-X	DIGI. TRANSISTOR	
Q1612	DTC323TK-X	DIGI. TRANSISTOR	
Q1701-04	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1705	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1708	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1709-10	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1871	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1872	2SC2412K/QR/-X	SI. TRANSISTOR	
IC			
IC1301	TB1227CN	I. C. (DIGI-OTHER)	
IC1302	TC4053BP/N/	I. C. (DIGI-MOS)	
IC1501	AN54415A-W	I. C. (MONO-ANA)	
IC1601	LA4446	I. C. (MONO-ANA)	
IC1607	BA05T	I. C. (MONO-ANA)	
IC1701	M37280MK-221SP	I. C.	
IC1702	AT24C1628CTLEP	I. C.	(SERVICE)
IC1703	L78L05E-MA	I. C. (MONO-ANA)	
IC1871	ET417	I. C. (M)	
IC1872	ET206	I. C. (M)	
OTHERS			
CN1008	QGA2501C5-08Z	W TO B CONNE	
LC1301	CE42142-222Z	EMI FILTER	
K1001	QQR0621-002Z	BEADS CORE	
K1004	QQR0621-002Z	BEADS CORE	
K1307	QQR0621-002Z	BEADS CORE	
K1872	QQL244K-3R3Z	COIL	3.3uH K
TU1001	QAUD189-002	TUNER	
X1301	QAX0305-001Z	CRYSTAL	
X1701	QAX0667-001Z	CRYSTAL	
X1871	CE41257-001Z	CRYSTAL	

POWER & DEF. P.W. BOARD ASS'Y
(SJK-2512A-H3)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R2401	QRA14CF-6801Y	MF R	6.8kΩ 1/4W F
R2402	QRA14CF-6801Y	MF R	6.8kΩ 1/4W F
R2403	QRA14CF-2201Y	MF R	2.2kΩ 1/4W F
R2404-05	QRA14CF-8200Y	MF R	820Ω 1/4W F
R2406	QRE141J-103Y	C R	10kΩ 1/4W J
R2409	QRE141J-103Y	C R	10kΩ 1/4W J
R2410	QRE141J-102Y	C R	1kΩ 1/4W J
R2414	QRE121J-3R9Y	C R	3.9Ω 1/2W J
R2415	QRX01GJ-1R8	MF R	1.8Ω 1W J
R2416	QRG01GJ-820	OM R	820Ω 1W J
R2417	QRE121J-1R0Y	C R	1.0Ω 1/2W J
R2461	QRE141J-331Y	C R	330Ω 1/4W J
R2463	QRE121J-392Y	C R	3.9kΩ 1/2W J
R2464	QRE121J-682Y	C R	6.8kΩ 1/2W J
R2465	QRE121J-103Y	C R	10kΩ 1/2W J
R2466	QRE121J-102Y	C R	1kΩ 1/2W J
R2467	QRL089J-120	OM R	120Ω 3W J
R2492	QRE141J-683Y	C R	68kΩ 1/4W J
R2493	QRE141J-224Y	C R	220kΩ 1/4W J
R2494	QRZ9017-4R7	F R	4.7Ω 1/4W J
R2495	QRE141J-103Y	C R	10kΩ 1/4W J
R2496	QRE141J-183Y	C R	18kΩ 1/4W J
R2497	QRE141J-153Y	C R	15kΩ 1/4W J
R2502	QRE141J-222Y	C R	2.2kΩ 1/4W J
R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
R2504	QRL089J-821	OM R	820Ω 3W J
R2505	QRL089J-681	OM R	680Ω 3W J
R2521	QRE121J-150Y	C R	15Ω 1/2W J
R2522	QRL089J-103	OM R	10kΩ 3W J
R2523	QRE121J-471Y	C R	470Ω 1/2W J
R2524	QRZ9017-4R7	F R	4.7Ω 1/4W J
R2525	QRE141J-332Y	C R	3.3kΩ 1/4W J
R2541	QRE121J-103Y	C R	10kΩ 1/2W J
R2542	QRE121J-222Y	C R	2.2kΩ 1/2W J
R2543	QRE121J-124Y	C R	120kΩ 1/2W J
R2544	QRE121J-104Y	C R	100kΩ 1/2W J
R2545	QRE141J-123Y	C R	12kΩ 1/4W J
R2546	QRE121J-104Y	C R	100kΩ 1/2W J
R2547	QRE141J-123Y	C R	12kΩ 1/4W J
R2548	QRE121J-222Y	C R	2.2kΩ 1/2W J
R2551-52	QRT089J-1R0	MF R	1.0Ω 3W J
R2553	QRF104K-5R6	UNF R	5.6Ω 10W K
R2554	QRZ9021-1R0	F R	1.0Ω 1W J
R2555	QRZ9011-4R7	F R	4.7Ω 1/2W J
R2591	QRE121J-123Y	C R	12kΩ 1/2W J
R2592	QRA14CF-1201Y	MF R	1.2kΩ 1/4W F
R2593	QRE141J-183Y	C R	18kΩ 1/4W J
R2594	QRE141J-222Y	C R	2.2kΩ 1/4W J
R2595	QRA14CF-1692Y	MF R	16.9kΩ 1/4W F
R2596	QRA14CF-2491Y	MF R	2.49kΩ 1/4W F
R2597	QRE141J-273Y	C R	27kΩ 1/4W J
R2902	QRZ0123-121	UNF R	120Ω 7W J
R2903	QRF104K-3R9	UNF R	3.9Ω 10W K
R2904-05	QRE121J-474Y	C R	470kΩ 1/2W J
R2907-08	QRL089J-823	OM R	82kΩ 3W J
R2909	QRG089J-683	OM R	68kΩ 3W J
R2910	QRE121J-681Y	C R	680Ω 1/2W J
R2911	QRH059J-R15	MP R	0.15Ω 5W K
R2912	QRT029J-2R2	MF R	2.2Ω 2W J
R2913	QRZ9017-100	F R	10Ω 1/4W K
R2914	QRE121J-272Y	C R	2.7kΩ 1/2W J
R2918	QRE121J-332Y	C R	3.3kΩ 1/2W J
R2933	QRE141J-102Y	C R	1kΩ 1/4W J
R2935	QRE141J-473Y	C R	47kΩ 1/4W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R2936	QRE141J-103Y	C R	10kΩ 1/4W J
R2938	QRE121J-102Y	C R	1kΩ 1/2W J
R2940	QRE121J-390Y	C R	39Ω 1/2W J
R2964	QRE121J-102Y	C R	1kΩ 1/2W J
R2967	QRL089J-223	OM R	22kΩ 3W J
R2976	QRL029J-100	OM R	10Ω 2W J
R2991	QRZ9046-825Z	C R	8.2MΩ 1/2W K
CAPACITOR			
C2401	QEHRLVM-227Z	E CAP.	220μF 35V M
C2402	QETMLVM-108	E CAP.	1000μF 35V M
C2403	QFLCZAJ-683Z	M CAP.	0.068μF 100V J
C2404	QETNLHM-105Z	E CAP.	1.0μF 50V M
C2405	QFLCHJ-472Z	M CAP.	4700pF 50V J
C2406	QCZ037-180Z	C CAP.	18pF 2kV K
C2407	QFLCHJ-102Z	M CAP.	1000pF 50V J
C2408	QFV71HJ-334Z	MF CAP.	0.33μF 50V J
C2410	QFV71HJ-334Z	MF CAP.	0.33μF 50V J
C2411	QFLCZAJ-563Z	M CAP.	0.056μF 100V J
C2451	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C2461	QEZO231-475Z	E CAP.	4.7μF 160V M
C2462	QETNLHM-106Z	E CAP.	10μF 50V M
C2463	QFLCHJ-153Z	M CAP.	0.015μF 50V J
C2491	QETNLHM-105Z	E CAP.	1.0μF 50V M
C2492	QETNLHM-106Z	E CAP.	10μF 50V M
C2502	QCB32HK-681Z	C CAP.	680pF 500V K
C2503	QEHRCM-105Z	E CAP.	1μF 160V M
C2521	QFZO00-72Z	MPP CAP.	7200pF1.5KVH±3%
C2522	QFZO00-113	MPP CAP.	0.011μF1.5KVH±3%
C2523	QFP32GJ-223	PP CAP.	0.022μF 400V J
C2524	QFN32DK-683	M CAP.	0.068μF 200V K
C2525	QFZO197-354	MPP CAP.	0.35μF 250V J
C2526	QFZO197-514	MPP CAP.	0.51μF 250V J
C2527	QEHREM-475Z	E CAP.	4.7μF 250V M
C2528	QFZO197-683	MPP CAP.	0.068μF 250V J
C2529	QFZO197-104	MPP CAP.	0.1μF 250V J
C2530	QCB32HK-561Z	C CAP.	560pF 500V K
C2531	QFLCHJ-103Z	M CAP.	0.01μF 50V J
C2532	QFZO197-374	MPP CAP.	0.37μF 250V J
C2542	QFZO197-824	MPP CAP.	0.82μF 250V J
C2543	QFZO197-204	MPP CAP.	0.2μF 250V J
C2551	QETNLEM-106	E CAP.	10μF 250V M
C2552	QCB32HK-152Z	C CAP.	1500pF 500V K
C2553	QEHRLM-108Z	E CAP.	1000μF 25V M
C2554	QCB32HK-152Z	C CAP.	1500pF 500V K
C2555	QEHRLM-108Z	E CAP.	1000μF 25V M
C2560	QETMLCM-227	E CAP.	220μF 160V M
C2591	QETNLAM-107Z	E CAP.	100μF 10V M
C2592	QETNLEM-476Z	E CAP.	47μF 25V M
C2593	QETNLAM-106Z	E CAP.	10μF 100V M
C2594	QETNLAM-227Z	E CAP.	220μF 10V M
C2904	QCZ9054-47Z	C CAP.	4700pFAC250V Z
C2905	QCZ9054-47Z	C CAP.	4700pFAC250V Z
C2906	QCZ9054-47Z	C CAP.	4700pFAC250V Z
C2907	QEZO199-227	E CAP.	220μF 400V M
C2908	QCB32HK-103	C CAP.	0.01μF 500V K
C2909	QCZ0122-391	C CAP.	390pF 2kV K
C2910	QCZ0122-102	C CAP.	1000pF 2kV K
C2912	QCB31HK-471Z	C CAP.	470pF 50V K
C2913	QETNLHM-476Z	E CAP.	47μF 50V M
C2916	QETNLHM-107Z	E CAP.	100μF 50V M
C2918	QCB31HK-681Z	C CAP.	680pF 50V K
C2933-34	QETNLHM-106Z	E CAP.	10μF 50V M
C2935	QETNLEM-227Z	E CAP.	220μF 25V M

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C2951	QCZ0122-561	C CAP.	560pF 2kV K
C2952	QEZO203-227	E CAP.	220μF 160V M
C2953	QCB32HK-391Z	C CAP.	390pF 500V K
C2954	QTMMLM-228	E CAP.	2200μF 25V M
C2955	QCB32HK-391Z	C CAP.	390pF 500V K
C2956	QTMMLCM-228	E CAP.	2200μF 16V M
C2958	QCB32HK-391Z	C CAP.	390pF 500V K
C2959	QETMLVM-228	E CAP.	2200μF 35V M
C2964	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
C2968	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C2969	QEHRLCM-477Z	E CAP.	470μF 16V M
C2970	QEHRLCM-107Z	E CAP.	100μF 16V M
C2971	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C2972	QETNLCM-227Z	E CAP.	220μF 16V M
C2973	QETNLEM-476Z	E CAP.	47μF 25V M
C2974	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C2975	QETNLAM-227Z	E CAP.	220μF 10V M
C2976	QETNLEM-476Z	E CAP.	47μF 25V M
C2979	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C2991	QCZ9079-33Z	C CAP.	3300pFAC250V M
C2992	QCZ9079-471	C CAP.	470pFAC250V K
TRANSFORMER			
T2501	CE42034-002	H.DRIVE TRANSF	
T2521	CE42549-001J1	COIL	
T2551	QOH0093-001	H.V. TRANSF	
T2901	QOS0099-001	SW TRANSF	
T2921	QOT0803-001	POWER TRANSF	
COIL			
L2461	QQLZ028-47Z	CHOKI	
L2521	QQLZ028-101	CHOKI	
L2522	QQR1137-004	RENJARIITY COIL	
L2901-02	QQL402K-100	COIL	10μH K
L2908	QQR0659-004	CHOKI	
L2951	QQLZ026-460	CHOKI	
L2952	QQL26AK-820Z	COIL	82μH K
L2953-54	QQL26AM-5R6Z	CHOKI	
DIODE			
D2401	MTZJ75-T2	ZENER DIODE	
D2402	1N4003-T2	DIODE	
D2408	1SS133-T2	DIODE	
D2451	BYD33D-T3	SI DIODE	
D2491	BYD33D-T3	SI DIODE	
D2492	MTZJ22B-T2	ZENER DIODE	
D2493	1SS133-T2	DIODE	
D2494	1SS133-T2	DIODE	
D2521	RH3G-F1	SI DIODE	
D2522	BYW95B-20	SI DIODE	
D2523	BYD33G-T3	SI DIODE	
D2525	MTZJ9.1B-T2	ZENER DIODE	
D2551	BYD33G-T3	SI DIODE	
D2553-54	BYW95B-20	SI DIODE	
D2591	MTZJ15B-T2	ZENER DIODE	
D2592	MTZJ7.5B-T2	ZENER DIODE	
D2593	BYD33D-T3	SI DIODE	
D2594	MTZJ7.5S-T2	ZENER DIODE	
D2901	D35BA60	BRIDGE DIODE	
D2902	BYD33M-T3	SI DIODE	
D2904	BYD33D-T3	SI DIODE	
D2905	BYD33D-T3	SI DIODE	
D2909	1SS133-T2	DIODE	
D2911	MTZJ15B-T2	ZENER DIODE	
D2913	MTZJ27B-T2	ZENER DIODE	
D2931	1SS133-T2	DIODE	
D2934	MTZJ6.2B-T2	ZENER DIODE	
D2935-38	1N4003-T2	DIODE	
D2939	1SS133-T2	DIODE	
D2951	RU4B-F1	SI DIODE	

Symbol No.	Part No.	Part Name	Description
DIODE			
D2953-54	BYW95B-20	SI DIODE	
D2955	FMX-G12S	SI DIODE	
D2958	1SR35-400A-T2	SI DIODE	
D2963	MTZJ3.9B-T2	ZENER DIODE	
D2964	MTZJ33B-T2	ZENER DIODE	
D2981	1SS133-T2	DIODE	
D2982	1SS133-T2	DIODE	
D2988	1SS133-T2	DIODE	
D2985	MTZJ7.5C-T2	ZENER DIODE	
TRANSISTOR			
Q2402	2SC1740S/QR/-T	SI TRANSISTOR	
Q2461	2SD1408/OY/-LB	SI TRANSISTOR	
Q2462-63	2SA933AS/QR/-T	SI TRANSISTOR	
Q2501	BSN304-T	FET	
Q2521	2SD2634-YD	TRANSISTOR	H. OUT
Q2541-42	DTC124ESA-T	DIGI TRANSISTOR	
Q2543	IRF620	FET	
Q2544-45	2SK2459N-F54	FET	
Q2546	DTC124ESA-T	DIGI TRANSISTOR	
Q2591	2SA1208/ST/Z1-T	SI TRANSISTOR	
Q2592	DTC124ESA-T	DIGI TRANSISTOR	
Q2598	2SC1740S/QR/-T	SI TRANSISTOR	
Q2931-32	2SC1740S/QR/-T	SI TRANSISTOR	
Q2933	2SC2655/Y/-T	SI TRANSISTOR	
IC			
IC2401	LA7841	IC	
IC2901	STR-F6667B/F7	IC	
IC2951	SE140N	IC	
IC2952	BA12T	IC	
IC2953	BA17809T	IC	
IC2954	BA05T	IC	
OTHERS			
CN2003-05	QGB1506M1-16	CONNECTOR	
CN2009	QGA2501C5-06Z	EH POST HEADER	
CP2952	ICP-N50-Y	I. C. PROTECT	
CP2953	ICP-N75-Y	I. C. PROTECT	
CP2956	ICP-N10-Y	I. C. PROTECT	
CP2957	ICP-N5-Y	I. C. PROTECT	
K2401	QQR0621-002Z	BEADS CORE	
K2508-04	QQR0582-001Z	BEADS CORE	
K2901	QQR0679-001	FERRITE BEADS	
K2904	QQR0679-001	FERRITE BEADS	
K2951	QQR0872-001Y	FERRITE CORE	
K2952	QQR0621-002Z	BEADS CORE	
K2953	QQR0621-002Z	BEADS CORE	
K2954	QQR0621-002Z	BEADS CORE	
LF2901	QQR1095-001	LINE FILTER	
PC2541	PC123F2	PHOTO COUPLER	
PC2542	PC123F2	PHOTO COUPLER	
PC2901	PC123FY2	PHOTO COUPLER	
RY2981	QSK0099-001	RERAY	
TH2901	QAD0120-9R0	P. THERMISTOR	

**■ CRT SOCKET P.W. BOARD ASS'Y
(SJK-3512A-H3)**

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R3101-03	NRSA02J-101X	MG R	100Ω 1/10W J
R3107	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R3108	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R3109	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R3110-12	NRSA02J-221X	MG R	220Ω 1/10W J
R3113-15	NRSA02J-470X	MG R	470Ω 1/10W J
R3116-18	QRL029J-153	OM R	15kΩ 2W J
R3119-21	QRL029J-183	OM R	18kΩ 2W J
R3125-27	QRZ0107-102Z	C R	1kΩ 1/2W K
R3130	QRG01GJ-101	OM R	100Ω 2W J
R3135	QRZ0107-474Z	C R	470kΩ 1/2W K
R3136	QRE121J-474Y	C R	470kΩ 1/2W J
R3137	QRZ0107-102Z	C R	1kΩ 1/2W K
R3138	QRE121J-105Y	C R	1MΩ 1/2W J
R3151	NRSA02J-102X	MG R	1kΩ 1/10W J
R3152	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R3154	NRSA02J-0ROX	MG R	0.0Ω 1/10W J
CAPACITOR			
C3101-03	NDC21HJ-391X	C CAP.	390pF 50V J
C3104	QETNLCM-107Z	E CAP.	100μF 16V M
C3105	QETNLEM-476Z	E CAP.	47μF 25V M
C3107	QETNLHM-106Z	E CAP.	10μF 50V M
C3113	QCZ0131-222	C CAP.	2200pF 2KV K
C3114	QETM2EM-336	E CAP.	33μF 250V M
C3115	QETM2EM-106	E CAP.	10μF 250V M
C3116	NRSA02J-0ROX	MG R	0.0Ω 1/10W J
DIODE			
D3151	MA111-X	SI DIODE	
D3152	MA3082/L/-X	ZENER DIODE	
D3153-55	MA111-X	SI DIODE	
D3156	MA3047/H/-X	ZENER DIODE	
D3163	MA3150/M/-X	ZENER DIODE	
D3164	1SR35-400A-T2	SI DIODE	
TRANSISTOR			
Q3101-03	2SC1740S/QR/-T	SI TRANSISTOR	
Q3104-06	2SC4544-LB	SI TRANSISTOR	
Q3151	2SA1037AK/QR/-X	SI TRANSISTOR	
Q3152	2SC4682-T	SI TRANSISTOR	
OTHERS			
K3101	QQR0621-002Z	BEADS CORE	
SK3001	QNZ0464-001	CRT SOCKET	

**FRONT CONTROL P.W. BOARD ASS'Y
(SJK-8515A-H3)**

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R8301	NRSA02J-750X	MG R	75Ω 1/10W J
R8801-02	NRSA02J-561X	MG R	560Ω 1/10W J
R8807-09	NRSA02J-103X	MG R	10kΩ 1/10W J
R8810-11	QRE121J-271Y	C R	270Ω 1/2W J
R8812	NRSA02J-102X	MG R	1kΩ 1/10W J
R8813	NRSA02J-102X	MG R	1kΩ 1/10W J
R8851	NRSA02J-682X	MG R	6.8kΩ 1/10W J
CAPACITOR			
C8001	NCF21CZ-105X	C CAP.	1μF 16V Z
C8301-02	NCB21HK-472X	C CAP.	4700pF 50V K
C8303	NCB21HK-102X	C CAP.	1000pF 50V K
C8801-02	NCB21HK-104X	C CAP.	0.1μF 50V K
C8805	NCB21HK-103X	C CAP.	0.01μF 50V K
C8851	NCB21EK-104X	C CAP.	0.1μF 25V K
C8852	QETN1CM-107Z	E CAP.	100μF 16V M
C8901	QFZ9040-474	MF CAP.	0.47μFAC275V M
COIL			
L8301	QQL244K-270Z	PEAKING COIL	
L8302	QQR0716-001Z	COIL	
L8303	QQL244K-270Z	PEAKING COIL	
L8801-02	QQL244K-5R6Z	COIL	5.6μH K
L8803	QQR0716-001Z	COIL	
DIODE			
D8801	SPR-39MVWF	LED	
D8805	MA111-X	SI DIODE	
D8851	MA3068/M/-X	ZENER DIODE	
TRANSISTOR			
Q8801-02	DTA124EKA-X	DIGI TRANSISTOR	
IC			
IC8851	GPI1Q81Q	IC	
OTHERS			
	LC30349-001A-H	LED HOLDER	
	CEM002-001Z	FUSE CLIP	
	QGF1220C2-19	FFC/FPC CONNECTOR	
CN8001	QMF51D2-3R15J1	FUSE	3.15A
F8901	QNZ0453-001	JACK	
J8301	QMS3004-C01	HEADPHONE JACK	
J8801	QQR1095-001	LINE FILTER	
LF8901	QSW0619-003Z	PUSH SWITCH	MENU
S8801	QSW0619-003Z	PUSH SWITCH	CH DOWN
S8802	QSW0619-003Z	PUSH SWITCH	CH UP
S8803	QSW0619-003Z	PUSH SWITCH	MAIN POWER
S8901	QSW0824-001	PUSH SWITCH	

AV SEL. P.W. BOARD ASS'Y (SJK0S912A-H3)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0101-08	NRSA02J-750X	MG R	75Ω 1/10W J
R0110	NRSA02J-823X	MG R	82kΩ 1/10W J
R0112	NRSA02J-823X	MG R	82kΩ 1/10W J
R0113	NRSA02J-750X	MG R	75Ω 1/10W J
R0114	NRSA02J-473X	MG R	47kΩ 1/10W J
R0115	NRSA02J-223X	MG R	22kΩ 1/10W J
R0116	NRSA02J-223X	MG R	22kΩ 1/10W J
R0117-18	NRSA02J-823X	MG R	82kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0119-20	NRSA02J-391X	MG R	390Ω 1/10W J
R0123	NRSA02J-104X	MG R	100kΩ 1/10W J
R0124-25	NRSA02J-101X	MG R	10kΩ 1/10W J
R0126	NRSA02J-333X	MG R	33kΩ 1/10W J
R0127	NRSA02J-101X	MG R	100Ω 1/10W J
R0128	NRSA02J-103X	MG R	10kΩ 1/10W J
R0129	NRSA02J-823X	MG R	82kΩ 1/10W J
R0130	NRSA02J-473X	MG R	47kΩ 1/10W J
R0131	NRSA02J-273X	MG R	27kΩ 1/10W J
R0132	NRSA02J-153X	MG R	15kΩ 1/10W J
R0133	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0134	NRSA02J-333X	MG R	33kΩ 1/10W J
R0135	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0136-37	NRSA02J-333X	MG R	33kΩ 1/10W J
R0138	NRSA02J-473X	MG R	47kΩ 1/10W J
R0139	NRSA02J-823X	MG R	82kΩ 1/10W J
R0140	NRSA02J-103X	MG R	10kΩ 1/10W J
R0141	NRSA02J-153X	MG R	15kΩ 1/10W J
R0142	NRSA02J-223X	MG R	22kΩ 1/10W J
R0143	NRSA02J-473X	MG R	47kΩ 1/10W J
R0144	NRSA02J-273X	MG R	27kΩ 1/10W J
R0146	NRSA02J-391X	MG R	390Ω 1/10W J
R0148	NRSA02J-391X	MG R	390Ω 1/10W J
R0151	NRSA02J-104X	MG R	100kΩ 1/10W J
R0152	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0153	NRSA02J-333X	MG R	33kΩ 1/10W J
R0154	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0155	NRSA02J-333X	MG R	33kΩ 1/10W J
R0156-69	NRSA02J-101X	MG R	10kΩ 1/10W J
R0170	NRSA02J-333X	MG R	33kΩ 1/10W J
R0171	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0172	NRSA02J-473X	MG R	47kΩ 1/10W J
R0173	NRSA02J-823X	MG R	82kΩ 1/10W J
R0174	NRSA02J-103X	MG R	10kΩ 1/10W J
R0175	NRSA02J-153X	MG R	15kΩ 1/10W J
R0176	NRSA02J-473X	MG R	47kΩ 1/10W J
R0177	NRSA02J-273X	MG R	27kΩ 1/10W J
R0180-83	NRSA02J-101X	MG R	10kΩ 1/10W J
R0184	NRSA02J-333X	MG R	33kΩ 1/10W J
R0185	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0186	NRSA02J-333X	MG R	33kΩ 1/10W J
R0188	NRSA02J-101X	MG R	10kΩ 1/10W J
R0189-90	NRSA02J-221X	MG R	220Ω 1/10W J
R0191-92	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R0193	NRSA02J-102X	MG R	1kΩ 1/10W J
R0194	NRSA02J-102X	MG R	1kΩ 1/10W J
R0195	QRG01GJ-101	OM R	100Ω 1W J
R0197	QRK126J-181X	C R	180Ω 1/2W J
R0198	NRSA02J-750X	MG R	75Ω 1/10W J
R0199	NRSA02J-101X	MG R	10kΩ 1/10W J
R0202	QRK126J-151X	C R	150Ω 1/2W J
R0203-05	NRSA02J-750X	MG R	75Ω 1/10W J
R0207	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0208	NRSA02J-333X	MG R	33kΩ 1/10W J
R0209	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0210	NRSA02J-333X	MG R	33kΩ 1/10W J
R0211-12	NRSA02J-103X	MG R	10kΩ 1/10W J
R0608	NRSA02J-102X	MG R	1kΩ 1/10W J
R0606	QRG01GJ-181	OM R	180Ω 1W J
R0607	NRSA02J-123X	MG R	12kΩ 1/10W J
R0608	NRSA02J-181X	MG R	180Ω 1/10W J
R0609	NRSA02J-123X	MG R	12kΩ 1/10W J
R0610	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R0614	NRSA02J-103X	MG R	10kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0615	NRSA02J-101X	MG R	100Ω 1/10W J
R0616	NRSA02J-221X	MG R	220Ω 1/10W J
R0617	NRSA02J-102X	MG R	1kΩ 1/10W J
R0618	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R0619-20	NRSA02J-333X	MG R	33kΩ 1/10W J
R0622	NRSA02J-103X	MG R	10kΩ 1/10W J
R0623	NRSA02J-102X	MG R	1kΩ 1/10W J
R0628	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R0629-31	NRSA02J-101X	MG R	100Ω 1/10W J
R0632	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R0633	NRSA02J-221X	MG R	220Ω 1/10W J
R0634-35	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R0647-48	NRSA02J-101X	MG R	100Ω 1/10W J
R0651	NRSA02J-122X	MG R	1.2kΩ 1/10W J
CAPACITOR			
C0101	NDC21HJ-151X	C CAP.	150pF 50V J
C0102	QETNLCM-477Z	E CAP.	470μF 16V M
C0103-05	QETNLCM-106Z	E CAP.	10μF 50V M
C0106	NCB21HK-472X	C CAP.	4700pF 50V K
C0107	NCB21HK-152X	C CAP.	1500pF 50V K
C0108	NCB21HK-472X	C CAP.	4700pF 50V K
C0109	NCB21HK-152X	C CAP.	1500pF 50V K
C0110	QETNLCM-477Z	E CAP.	470μF 16V M
C0111-12	NCB21HK-472X	C CAP.	4700pF 50V K
C0113	NDC21HJ-151X	C CAP.	150pF 50V J
C0114-15	NCB21HK-472X	C CAP.	4700pF 50V K
C0116-17	QETNLCM-106Z	E CAP.	10μF 50V M
C0118	NCB21HK-102X	C CAP.	1000pF 50V K
C0119	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0120	QETNLCM-106Z	E CAP.	10μF 50V M
C0121	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0122	NCB21HK-103X	C CAP.	0.01μF 50V K
C0123	NCB21HK-102X	C CAP.	1000pF 50V K
C0124-25	QETNLCM-106Z	E CAP.	10μF 50V M
C0126	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0127	QETNLCM-106Z	E CAP.	10μF 50V M
C0128	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0129	QETNLCM-106Z	E CAP.	10μF 50V M
C0130	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0131	NCB21HK-102X	C CAP.	1000pF 50V K
C0132	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0133	NCB21HK-103X	C CAP.	0.01μF 50V K
C0136	QETNLCM-106Z	E CAP.	10μF 50V M
C0137	QENCLHM-106Z	BP E CAP.	10μF 25V M
C0139	QENCLHM-106Z	BP E CAP.	10μF 25V M
C0140	QETNLCM-107Z	E CAP.	100μF 16V M
C0141	NCB21HK-103X	C CAP.	0.01μF 50V K
C0142	QENCLHM-105Z	BP E CAP.	1.0μF 50V M
C0143	QENCLHM-106Z	BP E CAP.	10μF 25V M
C0144	QENCLHM-105Z	BP E CAP.	1.0μF 50V M
C0145-46	QETNLCM-107Z	E CAP.	100μF 16V M
C0147	QETNLCM-477Z	E CAP.	470μF 16V M
C0149	NCB21HK-103X	C CAP.	0.01μF 50V K
C0150-51	QETNLCM-106Z	E CAP.	10μF 50V M
C0152-53	QETNLCM-105Z	E CAP.	1.0μF 50V M
C0154-55	NDC21HJ-680X	C CAP.	68pF 50V J
C0157-58	NDC21HJ-680X	C CAP.	68pF 50V J
C0159	NDC21HJ-561X	C CAP.	560pF 50V J
C0160	NDC21HJ-102X	C CAP.	1000pF 50V J
C0161	NDC21HJ-680X	C CAP.	68pF 50V J
C0610	NDC21HJ-821X	C CAP.	820pF 50V J
C0611-12	NDC21HJ-470X	C CAP.	47pF 50V J
C0614	NDC21HJ-180X	C CAP.	18pF 50V J
C0616	QETNLCM-107Z	E CAP.	100μF 16V M

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0617	NCB21EK-104X	C CAP.	0.1μF 25V K
C0618	QETNLCM-106Z	E CAP.	10μF 50V M
C0619	NCB21EK-104X	C CAP.	0.1μF 25V K
C0620	QETNLCM-106Z	E CAP.	10μF 50V M
C0621-22	QENCLHM-105Z	BP E CAP.	1.0μF 50V M
C0623	NCB21EK-104X	C CAP.	0.1μF 25V K
C0624	QETNLCM-106Z	E CAP.	10μF 50V M
C0625	QETNLCM-227Z	E CAP.	220μF 16V M
C0626	NCB21HK-153X	C CAP.	0.015μF 50V K
C0627	QENCLHM-105Z	BP E CAP.	1.0μF 50V M
C0628	NCB21HK-223X	C CAP.	0.022μF 50V K
C0629	QETNLCM-106Z	E CAP.	10μF 50V M
C0630-31	NCB21HK-102X	C CAP.	1000pF 50V K
C0632	NCB21EK-104X	C CAP.	0.1μF 25V K
C0633	QETNLCM-106Z	E CAP.	10μF 50V M
C0634-35	NCB21HK-103X	C CAP.	0.01μF 50V K
C0636	NDC21HJ-2R0X	C CAP.	2.0pF 50V J
C0637	NCB21HK-222X	C CAP.	2200pF 50V K
C0638	QETNLCM-336Z	E CAP.	33μF 16V M
C0639	NCB21HK-153X	C CAP.	0.015μF 50V K
C0640	NCB21HK-223X	C CAP.	0.022μF 50V K
C0641	NCB21HK-222X	C CAP.	2200pF 50V K
C0642	NDC21HJ-2R0X	C CAP.	2.0pF 50V J
C0643	QENCLHM-105Z	BP E CAP.	1.0μF 50V M
C0645	NCB21HK-103X	C CAP.	0.01μF 50V K
C0646	NCB21EK-104X	C CAP.	0.1μF 25V K
C0647	QETNLCM-107Z	E CAP.	100μF 16V M
C0648	NCB21EK-104X	C CAP.	0.1μF 25V K
C0659-60	QENCLHM-105Z	BP E CAP.	1.0μF 50V M
C0677-78	NCB21HK-102X	C CAP.	1000pF 50V K
COIL			
L0114	QQR0716-001Z	COIL	
L0601	QLL244K-220Z	PEAKING COIL	
L0602	QLL244K-180Z	COIL	18μH K
L0604	QLL244K-100Z	COIL	10μH K
L0605	QLL244K-4R7Z	COIL	4.7μH K
DIODE			
D0101-13	MA3120/M/-X	ZENER DIODE	
D0601	RD8.2E/B2/-T2	ZENER DIODE	
TRANSISTOR			
Q0101	DTC323TK-X	DIGI TRANSISTOR	
Q0102	2SA1037AK/QR/-X	SI TRANSISTOR	
Q0103	DTC323TK-X	DIGI TRANSISTOR	
Q0104-07	2SC2412K/QR/-X	SI TRANSISTOR	
Q0108	2SA1037AK/QR/-X	SI TRANSISTOR	
Q0109-10	DTC323TK-X	DIGI TRANSISTOR	
Q0111-12	2SC2412K/QR/-X	SI TRANSISTOR	
Q0116	2SA993AS/QR/-T	SI TRANSISTOR	
Q0118	2SC1740S/QR/-T	SI TRANSISTOR	
Q0119-20	2SC2412K/QR/-X	SI TRANSISTOR	
Q0601	2SC2412K/QR/-X	SI TRANSISTOR	
IC			
IC0101	CXA2089Q-X	IC	
IC0602	BA4558F-X	IC	
IC0603	MSP3415DQGB3GHX	IC	
OTHERS			
CN006	QGB1505K1-50	CONNECTOR	
J0001	QN20465-001	PIN CONNECTOR	
J0002	QN20463-001	PIN CONNECTOR	
K0101-04	CE42681-001Y	BEADS CORE	
K0601	QQR0621-002Z	BEADS CORE	
LC0601-02	CE42482-103Y	EMI FILTER	
X0601	CE42546-001Z	X TAL	

AV28CT1EPS / AV28CT1EPB / AV28CT1EIS

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SJK-1716A-U2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1001	NRSA02J-102X	MG R	1kΩ 1/10W J
R1002	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1003	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1004	NRSA02J-102X	MG R	1kΩ 1/10W J
R1005	NRSA02J-102X	MG R	1kΩ 1/10W J
R1006	NRSA02J-102X	MG R	1kΩ 1/10W J
R1007	NRSA02J-104X	MG R	100kΩ 1/10W J
R1008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1009-10	NRSA02J-104X	MG R	100kΩ 1/10W J
R1304	QRG01GJ-121	OM R	120Ω 1W J
R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1307	NRSA02J-102X	MG R	1kΩ 1/10W J
R1308	NRSA02J-471X	MG R	470Ω 1/10W J
R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1310-11	NRSA02J-391X	MG R	390Ω 1/10W J
R1312-13	NRSA02J-101X	MG R	100Ω 1/10W J
R1314	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1316	NRSA02J-224X	MG R	220kΩ 1/10W J
R1317	NRSA02J-101X	MG R	100Ω 1/10W J
R1318	NRSA02J-102X	MG R	1kΩ 1/10W J
R1319	NRSA02J-102X	MG R	1kΩ 1/10W J
R1320	NRSA02J-102X	MG R	1kΩ 1/10W J
R1321	NRSA02J-102X	MG R	1kΩ 1/10W J
R1327	NRSA02J-471X	MG R	470Ω 1/10W J
R1328	NRSA02J-102X	MG R	1kΩ 1/10W J
R1329	NRSA02J-102X	MG R	1kΩ 1/10W J
R1330	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1331	NRSA02J-333X	MG R	33kΩ 1/10W J
R1332-33	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1335	NRSA02J-273X	MG R	27kΩ 1/10W J
R1340-41	NRSA02J-333X	MG R	33kΩ 1/10W J
R1342	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1343	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1344	NRSA02J-471X	MG R	470Ω 1/10W J
R1345	NRSA02J-102X	MG R	1kΩ 1/10W J
R1346	NRSA02J-223X	MG R	22kΩ 1/10W J
R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1403	NRSA02J-102X	MG R	1kΩ 1/10W J
R1404	NRSA02J-183X	MG R	18kΩ 1/10W J
R1405	NRSA02J-223X	MG R	22kΩ 1/10W J
R1409	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1411	NRVA02D-473X	MF R	47kΩ 1/10W D
R1413	NRVA02D-223X	MF R	22kΩ 1/10W D
R1414	NRVA02D-101X	MF R	100Ω 1/10W D
R1415	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1416	NRSA02J-101X	MG R	100Ω 1/10W J
R1417	NRSA02J-223X	MG R	22kΩ 1/10W J
R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1419	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1420	NRSA02J-183X	MG R	18kΩ 1/10W J
R1501	NRSA02J-621X	MG R	620Ω 1/10W J
R1502	NRSA02J-103X	MG R	10kΩ 1/10W J
R1503	NRSA02J-104X	MG R	100kΩ 1/10W J
R1504	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1505-06	NRSA02J-221X	MG R	220Ω 1/10W J
R1507	NRSA02J-102X	MG R	1kΩ 1/10W J
R1508	NRSA02J-223X	MG R	22kΩ 1/10W J
R1509	NRSA02J-223X	MG R	22kΩ 1/10W J
R1511	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1514	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1516	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1517	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1518	NRSA02J-682X	MG R	6.8kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1571	NRSA02J-101X	MG R	100Ω 1/10W J
R1572	NRSA02J-133X	MG R	13kΩ 1/10W J
R1573	NRSA02J-821X	MG R	82Ω 1/10W J
R1608-09	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1610-11	NRSA02J-103X	MG R	10kΩ 1/10W J
R1633	NRSA02J-273X	MG R	27kΩ 1/10W J
R1635	NRSA02J-561X	MG R	560Ω 1/10W J
R1638	NRSA02J-473X	MG R	47kΩ 1/10W J
R1639	NRSA02J-103X	MG R	10kΩ 1/10W J
R1642	QRK126J-4R7X	C R	4.7Ω 1/2W J
R1644	NRSA02J-561X	MG R	560Ω 1/10W J
R1645	QRK126J-4R7X	C R	4.7Ω 1/2W J
R1648	NRSA02J-104X	MG R	100kΩ 1/10W J
R1690	QRG01GJ-270	OM R	27Ω 1W J
R1701	NRSA02J-221X	MG R	220Ω 1/10W J
R1703	NRSA02J-273X	MG R	27kΩ 1/10W J
R1704	NRSA02J-473X	MG R	47kΩ 1/10W J
R1705	NRSA02J-102X	MG R	1kΩ 1/10W J
R1706	NRSA02J-223X	MG R	22kΩ 1/10W J
R1707-10	NRSA02J-103X	MG R	10kΩ 1/10W J
R1713	NRSA02J-102X	MG R	1kΩ 1/10W J
R1714	NRSA02J-102X	MG R	1kΩ 1/10W J
R1716	NRSA02J-102X	MG R	1kΩ 1/10W J
R1717	NRSA02J-104X	MG R	100kΩ 1/10W J
R1718	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1719	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1720	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1724-25	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1727	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1729-31	NRSA02J-221X	MG R	220Ω 1/10W J
R1740	NRSA02J-331X	MG R	330Ω 1/10W J
R1743-44	NRSA02J-101X	MG R	100Ω 1/10W J
R1745	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1747	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1748-52	NRSA02J-221X	MG R	220Ω 1/10W J
R1753	NRSA02J-102X	MG R	1kΩ 1/10W J
R1755	NRSA02J-102X	MG R	1kΩ 1/10W J
R1756	NRSA02J-103X	MG R	10kΩ 1/10W J
R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1763	NRSA02J-103X	MG R	10kΩ 1/10W J
R1764-66	NRSA02J-221X	MG R	220Ω 1/10W J
R1767	NRSA02J-103X	MG R	10kΩ 1/10W J
R1770	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1771-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1774-75	NRSA02J-333X	MG R	33kΩ 1/10W J
R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1780	NRSA02J-102X	MG R	1kΩ 1/10W J
R1784	NRSA02J-223X	MG R	22kΩ 1/10W J
R1785	NRSA02J-223X	MG R	22kΩ 1/10W J
R1786	NRSA02J-473X	MG R	47kΩ 1/10W J
R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1789	NRSA02J-473X	MG R	47kΩ 1/10W J
R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1801	NRSA02J-333X	MG R	33kΩ 1/10W J
R1802	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1805	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1806	NRSA02J-184X	MG R	180kΩ 1/10W J
R1871	NRSA02J-102X	MG R	1kΩ 1/10W J
R1872-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1874	NRSA02J-272X	MG R	2.7kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1875	NRSΔ02J-104X	MG R	100kΩ 1/10W J
R1876	NRSΔ02J-102X	MG R	1kΩ 1/10W J
R1877	NRSΔ02J-393X	MG R	39kΩ 1/10W J
R1878-80	NRSΔ02J-152X	MG R	1.5kΩ 1/10W J
R1881-82	NRSΔ02J-331X	MG R	330Ω 1/10W J
R1883	NRSΔ02J-102X	MG R	1kΩ 1/10W J
R1884	NRSΔ02J-331X	MG R	330Ω 1/10W J
CAPACITOR			
C1001	NCB21HK-222X	C CAP.	2200pF 50V K
C1003	NCB21EK-104X	C CAP.	0.1μF 25V K
C1004	QETNLCM-108Z	E CAP.	1000μF 16V M
C1005	QETNLCM-107Z	E CAP.	100μF 16V M
C1006	QETNLHM-106Z	E CAP.	10μF 50V M
C1007	NCB21HK-104X	C CAP.	0.1μF 50V K
C1008	QETNLHM-106Z	E CAP.	10μF 50V M
C1009	NCB21EK-104X	C CAP.	0.1μF 25V K
C1010	QETNLCM-107Z	E CAP.	100μF 16V M
C1301	NCB21EK-104X	C CAP.	0.1μF 25V K
C1302	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1303	QETNLEM-476Z	E CAP.	47μF 25V M
C1304	NCB21HK-103X	C CAP.	0.01μF 50V K
C1305	QETNLCM-107Z	E CAP.	100μF 16V M
C1306	NCB21HK-103X	C CAP.	0.01μF 50V K
C1307	QETNLCM-477Z	E CAP.	470μF 16V M
C1308	NDC21HJ-120X	C CAP.	12pF 50V J
C1309	QETNLHM-475Z	E CAP.	4.7μF 50V M
C1310	NCB21HK-103X	C CAP.	0.01μF 50V K
C1311	QETNLHM-106Z	E CAP.	10μF 50V M
C1312	NDC21HJ-680X	C CAP.	680pF 50V J
C1313	QETNLCM-107Z	E CAP.	100μF 16V M
C1314	NCB21HK-103X	C CAP.	0.01μF 50V K
C1315	QETNLHM-106Z	E CAP.	10μF 50V M
C1319	QETNLCM-107Z	E CAP.	100μF 16V M
C1320	NCB21HK-103X	C CAP.	0.01μF 50V K
C1321-23	NCB21EK-104X	C CAP.	0.1μF 25V K
C1324-26	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1327	QETNLHM-475Z	E CAP.	4.7μF 50V M
C1328	QETNLCM-107Z	E CAP.	100μF 16V M
C1329	QETNLEM-476Z	E CAP.	47μF 25V M
C1330	NDC21HJ-390X	C CAP.	390pF 50V J
C1331	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1332	NCB21HK-103X	C CAP.	0.01μF 50V K
C1333	NCB21EK-104X	C CAP.	0.1μF 25V K
C1401	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1403-05	NCB21HK-103X	C CAP.	0.01μF 50V K
C1406	QFV71HJ-184Z	MF CAP.	0.18μF 50V J
C1407	QFV71HJ-824Z	MF CAP.	0.82μF 50V J
C1408	NCB21HK-153X	C CAP.	0.015μF 50V K
C1501	QETNLCM-107Z	E CAP.	100μF 16V M
C1502-04	NCB21HK-103X	C CAP.	0.01μF 50V K
C1505	NCB21HK-332X	C CAP.	3300pF 50V K
C1506	QETNLHM-335Z	E CAP.	3.3μF 50V M
C1507	NCB21HK-103X	C CAP.	0.01μF 50V K
C1508	QETNLCM-108Z	E CAP.	1000μF 16V M
C1509	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1510-11	NCB21HK-103X	C CAP.	0.01μF 50V K
C1512	QTMNLHM-105Z	E CAP.	
C1513	QETNLCM-228	E CAP.	2200μF 16V M
C1514	NCB21HK-103X	C CAP.	0.01μF 50V K
C1515	QFV71HJ-394Z	MF CAP.	0.39μF 50V J
C1516	NCB21HK-103X	C CAP.	0.01μF 50V K
C1571	NCB21HK-103X	C CAP.	0.01μF 50V K
C1605	QETNLHM-106Z	E CAP.	10μF 50V M
C1606	QETNLEM-227Z	E CAP.	220μF 25V M

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C1622-23	QETNLCM-227Z	E CAP.	220μF 16V M
C1624	QETNLEM-476Z	E CAP.	47μF 25V M
C1626	QENCLM-107Z	BP E CAP.	100μF 25V M
C1627	QETNLEM-228	E CAP.	2200μF 25V M
C1629	QENCLM-107Z	BP E CAP.	100μF 25V M
C1631	QETNLEM-476Z	E CAP.	47μF 25V M
C1632	NCS21HJ-221X	C CAP.	220pF 50V J
C1633-34	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1635-36	QETNLEM-108Z	E CAP.	1000μF 25V M
C1637-38	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1639	QETNLHM-106Z	E CAP.	10μF 50V M
C1640	NCS21HJ-221X	C CAP.	220pF 50V J
C1641	QETNLHM-226Z	E CAP.	22μF 50V M
C1668	NCB21EK-104X	C CAP.	0.1μF 25V K
C1671	QETNLCM-107Z	E CAP.	100μF 16V M
C1672	NCB21EK-104X	C CAP.	0.1μF 25V K
C1701	NCF21CZ-105X	C CAP.	1μF 16V Z
C1703	QETNLEM-476Z	E CAP.	47μF 25V M
C1704	NCB21EK-104X	C CAP.	0.1μF 25V K
C1705	QETNLAM-107Z	E CAP.	100μF 10V M
C1706	NCB21EK-104X	C CAP.	0.1μF 25V K
C1707	QETNLHM-474Z	E CAP.	0.47μF 50V M
C1708	QETNLEM-476Z	E CAP.	47μF 25V M
C1709-10	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
C1711	NCB21EK-104X	C CAP.	0.1μF 25V K
C1712	NDC21HJ-151X	C CAP.	150pF 50V J
C1716-17	QETNLHM-105Z	E CAP.	1.0μF 50V M
C1718	NCB21HK-333X	C CAP.	0.033μF 50V K
C1725	NCB21HK-102X	C CAP.	1000pF 50V K
C1837	NCB21EK-104X	C CAP.	0.1μF 25V K
C1839	QETNLHM-106Z	E CAP.	10μF 50V M
C1871	NCB21EK-104X	C CAP.	0.1μF 25V K
C1872	NCB21HK-223X	C CAP.	0.022μF 50V K
C1873	NDC21HJ-221X	C CAP.	220pF 50V J
C1874-75	NDC21HJ-150X	C CAP.	150pF 50V J
C1876	NCB21HK-102X	C CAP.	1000pF 50V K
C1877	NCB21EK-104X	C CAP.	0.1μF 25V K
C1878	NCB21HK-102X	C CAP.	1000pF 50V K
C1879	NDC21HJ-180X	C CAP.	180pF 50V J
C1880	QETNLAM-477Z	E CAP.	470μF 10V M
C1881	NCB21EK-104X	C CAP.	0.1μF 25V K
C1882	QETNLEM-476Z	E CAP.	47μF 25V M
C1883	NCB21HK-103X	C CAP.	0.01μF 50V K
C1884-85	NCB21EK-104X	C CAP.	0.1μF 25V K
C1886	NCB21HK-103X	C CAP.	0.01μF 50V K
C1887-89	QETNLHM-106Z	E CAP.	10μF 50V M
C1890	NCB21HK-103X	C CAP.	0.01μF 50V K
COIL			
L1001	QQL244K-5R6Z	COIL	5.6μH K
L1002	QQL244K-270Z	PEAKING COIL	
L1301-02	QQL244K-4R7Z	COIL	4.7μH K
L1305	QQL244K-4R7Z	COIL	4.7μH K
L1306	QQL244K-330Z	COIL	33μH K
L1501	QQL244J-151Z	PEAKING COIL	
L1701	QQL244K-4R7Z	COIL	4.7μH K
L1702	QQL244K-3R9Z	COIL	3.9μH K
L1871	QQL244K-4R7Z	COIL	4.7μH K
DIODE			
D1301	MA3061/M/-X	ZENER DIODE	
D1302-04	MA111-X	SI DIODE	
D1503	RB100A-T2	SI DIODE	
D1602	MA111-X	SI DIODE	
D1608	MA111-X	SI DIODE	
D1612	MA111-X	SI DIODE	
D1624-25	MA111-X	SI DIODE	
D1701	MA3068/M/-X	ZENER DIODE	

■ AV SEL. P.W. BOARD ASS'Y (SJK0S712A-H3)

Symbol No.	Part No.	Part Name	Description
DIODE			
D1702	MA111-X	SI. DIODE	
D1704	MA111-X	SI. DIODE	
D1705	MA3036-X	ZENER DIODE	
D1706-08	MA111-X	SI. DIODE	
D1710	MA111-X	SI. DIODE	
TRANSISTOR			
Q1301-02	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1308	DTC124EKA-X	DIGI. TRANSISTOR	
Q1311	DTC124EKA-X	DIGI. TRANSISTOR	
Q1312	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1401	DTC124EKA-X	DIGI. TRANSISTOR	
Q1402	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1604	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1609	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1610	DTC323TK-X	DIGI. TRANSISTOR	
Q1612	DTC323TK-X	DIGI. TRANSISTOR	
Q1701-04	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1705	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1708	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1709-10	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1871	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1872	2SC2412K/QR/-X	SI. TRANSISTOR	
IC			
IC1301	TB1227CN	I. C. (DIGI-OTHER)	
IC1302	TC4053BP/N/	I. C. (DIGI-MOS)	
IC1501	AN5441SA-W	I. C. (MONO-ANA)	
IC1601	LA4446	I. C. (MONO-ANA)	
IC1607	BA05T	I. C. (MONO-ANA)	
IC1701	M37280MK-221SP	I. C.	
IC1702	AT24C1628CT1EP	I. C.	(SERVICE)
IC1703	L78LR05E-MA	I. C. (MONO-ANA)	
IC1871	ET417	I. C. (M)	
IC1872	ET206	I. C. (M)	
OTHERS			
CN1008	QGA2501C5-08Z	W TO B CONNE	
K1001	QQR0621-002Z	BEADS CORE	
K1004	QQR0621-002Z	BEADS CORE	
K1307	QQR0621-002Z	BEADS CORE	
K1872	QQL244K-3R3Z	COIL	3.3uH K
LC1301	CE42142-222Z	EMI FILTER	
TU1001	QAU0188-004	TUNER	
X1301	QAX0305-001Z	CRYSTAL	
X1701	QAX0667-001Z	CRYSTAL	
X1871	CE41257-001Z	CRYSTAL	

■ POWER & DEF. P.W. BOARD ASS'Y
(SJK-2512A-H3)

Refer to PARTS LIST in page 40 for this P.W. board.

■ CRT SOCKET P.W. BOARD ASS'Y
(SJK-3512A-H3)

Refer to PARTS LIST in page 42 for this P.W. board.

■ FRONT CONTROL P.W. BOARD ASS'Y
(SJK-8515A-H3)

Refer to PARTS LIST in page 43 for this P.W. board.

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0101-08	NRSA02J-750X	MG R	75Ω 1/10W J
R0110	NRSA02J-823X	MG R	82kΩ 1/10W J
R0112	NRSA02J-823X	MG R	82kΩ 1/10W J
R0113	NRSA02J-750X	MG R	75Ω 1/10W J
R0114	NRSA02J-473X	MG R	47kΩ 1/10W J
R0115	NRSA02J-223X	MG R	22kΩ 1/10W J
R0116	NRSA02J-223X	MG R	22kΩ 1/10W J
R0117-18	NRSA02J-823X	MG R	82kΩ 1/10W J
R0119-20	NRSA02J-391X	MG R	390Ω 1/10W J
R0123	NRSA02J-104X	MG R	100kΩ 1/10W J
R0124-25	NRSA02J-101X	MG R	100Ω 1/10W J
R0126	NRSA02J-333X	MG R	33kΩ 1/10W J
R0127	NRSA02J-101X	MG R	100Ω 1/10W J
R0128	NRSA02J-103X	MG R	10kΩ 1/10W J
R0129	NRSA02J-823X	MG R	82kΩ 1/10W J
R0130	NRSA02J-473X	MG R	47kΩ 1/10W J
R0131	NRSA02J-273X	MG R	27kΩ 1/10W J
R0132	NRSA02J-153X	MG R	15kΩ 1/10W J
R0133	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0134	NRSA02J-333X	MG R	33kΩ 1/10W J
R0135	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0136-37	NRSA02J-333X	MG R	33kΩ 1/10W J
R0138	NRSA02J-473X	MG R	47kΩ 1/10W J
R0139	NRSA02J-823X	MG R	82kΩ 1/10W J
R0140	NRSA02J-103X	MG R	10kΩ 1/10W J
R0141	NRSA02J-153X	MG R	15kΩ 1/10W J
R0142	NRSA02J-223X	MG R	22kΩ 1/10W J
R0143	NRSA02J-473X	MG R	47kΩ 1/10W J
R0144	NRSA02J-273X	MG R	27kΩ 1/10W J
R0146	NRSA02J-391X	MG R	390Ω 1/10W J
R0148	NRSA02J-391X	MG R	390Ω 1/10W J
R0151	NRSA02J-104X	MG R	100kΩ 1/10W J
R0152	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0153	NRSA02J-333X	MG R	33kΩ 1/10W J
R0154	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0155	NRSA02J-333X	MG R	33kΩ 1/10W J
R0156-69	NRSA02J-101X	MG R	100Ω 1/10W J
R0170	NRSA02J-333X	MG R	33kΩ 1/10W J
R0171	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0172	NRSA02J-473X	MG R	47kΩ 1/10W J
R0173	NRSA02J-823X	MG R	82kΩ 1/10W J
R0174	NRSA02J-103X	MG R	10kΩ 1/10W J
R0175	NRSA02J-153X	MG R	15kΩ 1/10W J
R0176	NRSA02J-473X	MG R	47kΩ 1/10W J
R0177	NRSA02J-273X	MG R	27kΩ 1/10W J
R0180-83	NRSA02J-101X	MG R	100Ω 1/10W J
R0184	NRSA02J-333X	MG R	33kΩ 1/10W J
R0185	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0186	NRSA02J-333X	MG R	33kΩ 1/10W J
R0188	NRSA02J-101X	MG R	100Ω 1/10W J
R0189-90	NRSA02J-221X	MG R	220Ω 1/10W J
R0191-92	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R0193	NRSA02J-102X	MG R	1kΩ 1/10W J
R0194	NRSA02J-102X	MG R	1kΩ 1/10W J
R0195	QRG01G-101	OM R	100Ω 1W J
R0197	QRK126J-181X	C R	180Ω 1/2W J
R0198	NRSA02J-750X	MG R	75Ω 1/10W J
R0199	NRSA02J-101X	MG R	100Ω 1/10W J
R0202	QRK126J-151X	C R	150Ω 1/2W J
R0203-05	NRSA02J-750X	MG R	75Ω 1/10W J
R0207	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0208	NRSA02J-333X	MG R	33kΩ 1/10W J
R0209	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0210	NRSA02J-333X	MG R	33kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0211-12	NRSA02J-103X	MG R	10kΩ 1/10W J
R0608	NRSA02J-102X	MG R	1kΩ 1/10W J
R0606	QRG01GJ-181	OM R	180Ω 1W J
R0607	NRSA02J-123X	MG R	12kΩ 1/10W J
R0608	NRSA02J-181X	MG R	180Ω 1/10W J
R0609	NRSA02J-123X	MG R	12kΩ 1/10W J
R0610	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R0614	NRSA02J-103X	MG R	10kΩ 1/10W J
R0615	NRSA02J-101X	MG R	100Ω 1/10W J
R0616	NRSA02J-221X	MG R	220Ω 1/10W J
R0617	NRSA02J-102X	MG R	1kΩ 1/10W J
R0618	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R0619-20	NRSA02J-333X	MG R	33kΩ 1/10W J
R0622	NRSA02J-103X	MG R	10kΩ 1/10W J
R0623	NRSA02J-102X	MG R	1kΩ 1/10W J
R0624	NRSA02J-104X	MG R	100kΩ 1/10W J
R0628	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R0629-31	NRSA02J-101X	MG R	100Ω 1/10W J
R0632	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R0633	NRSA02J-221X	MG R	220Ω 1/10W J
R0634-35	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R0647-48	NRSA02J-101X	MG R	100Ω 1/10W J
R0651	NRSA02J-122X	MG R	1.2kΩ 1/10W J
CAPACITOR			
C0101	NDC21HJ-151X	C CAP.	150pF 50V J
C0102	QETNLCM-477Z	E CAP.	470pF 16V M
C0103-05	QETNLHM-106Z	E CAP.	10pF 50V M
C0106	NCB21HK-472X	C CAP.	4700pF 50V K
C0107	NCB21HK-152X	C CAP.	1500pF 50V K
C0108	NCB21HK-472X	C CAP.	4700pF 50V K
C0109	NCB21HK-152X	C CAP.	1500pF 50V K
C0110	QETNLCM-477Z	E CAP.	470pF 16V M
C0111-12	NCB21HK-472X	C CAP.	4700pF 50V K
C0113	NDC21HJ-151X	C CAP.	150pF 50V J
C0114-15	NCB21HK-472X	C CAP.	4700pF 50V K
C0116-17	QETNLHM-106Z	E CAP.	10pF 50V M
C0118	NCB21HK-102X	C CAP.	1000pF 50V K
C0119	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0120	QETNLHM-106Z	E CAP.	10pF 50V M
C0121	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0122	NCB21HK-103X	C CAP.	0.01pF 50V K
C0123	NCB21HK-102X	C CAP.	1000pF 50V K
C0124-25	QETNLHM-106Z	E CAP.	10pF 50V M
C0126	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0127	QETNLHM-106Z	E CAP.	10pF 50V M
C0128	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0129	QETNLHM-106Z	E CAP.	10pF 50V M
C0130	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0131	NCB21HK-102X	C CAP.	1000pF 50V K
C0132	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0133	NCB21HK-103X	C CAP.	0.01pF 50V K
C0136	QETNLHM-106Z	E CAP.	10pF 50V M
C0137	QENCLHM-106Z	BP E CAP.	10pF 25V M
C0139	QENCLHM-106Z	BP E CAP.	10pF 25V M
C0140	QETNLCM-107Z	E CAP.	100pF 16V M
C0141	NCB21HK-103X	C CAP.	0.01pF 50V K
C0142	QENCLHM-105Z	BP E CAP.	1.0pF 50V M
C0143	QENCLHM-106Z	BP E CAP.	10pF 25V M
C0144	QENCLHM-105Z	BP E CAP.	1.0pF 50V M
C0145-46	QETNLCM-107Z	E CAP.	100pF 16V M
C0147	QETNLCM-477Z	E CAP.	470pF 16V M
C0149	NCB21HK-103X	C CAP.	0.01pF 50V K
C0150-51	QETNLHM-106Z	E CAP.	10pF 50V M
C0152-53	QETNLHM-105Z	E CAP.	1.0pF 50V M
C0154-55	NDC21HJ-680X	C CAP.	68pF 50V J
C0157-58	NDC21HJ-680X	C CAP.	68pF 50V J
C0159	NDC21HJ-561X	C CAP.	560pF 50V J
C0160	NDC21HJ-102X	C CAP.	1000pF 50V J
C0161	NDC21HJ-680X	C CAP.	68pF 50V J
C0610	NDC21HJ-821X	C CAP.	820pF 50V J
C0611-12	NDC21HJ-470X	C CAP.	47pF 50V J
C0614	NDC21HJ-180X	C CAP.	18pF 50V J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0616	QETNLCM-107Z	E CAP.	100pF 16V M
C0617	NCB21EK-104X	C CAP.	0.1pF 25V K
C0618	QETNLHM-106Z	E CAP.	10pF 50V M
C0619	NCB21EK-104X	C CAP.	0.1pF 25V K
C0620	QETNLHM-106Z	E CAP.	10pF 50V M
C0621-22	QENCLHM-105Z	BP E CAP.	1.0pF 50V M
C0623	NCB21EK-104X	C CAP.	0.1pF 25V K
C0624	QETNLHM-106Z	E CAP.	10pF 50V M
C0625	QETNLCM-227Z	E CAP.	220pF 16V M
C0626	NCB21HK-153X	C CAP.	0.015pF 50V K
C0627	QENCLHM-105Z	BP E CAP.	1.0pF 50V M
C0628	NCB21HK-223X	C CAP.	0.022pF 50V K
C0629	QETNLHM-106Z	E CAP.	10pF 50V M
C0630-31	NCB21HK-102X	C CAP.	1000pF 50V K
C0632	NCB21EK-104X	C CAP.	0.01pF 25V K
C0633	QETNLHM-106Z	E CAP.	10pF 50V M
C0634-35	NCB21HK-103X	C CAP.	0.01pF 50V K
C0636	NDC21HJ-2R0X	C CAP.	2.0pF 50V J
C0637	NCB21HK-222X	C CAP.	2200pF 50V K
C0638	QETNLCM-336Z	E CAP.	33pF 16V M
C0639	NCB21HK-153X	C CAP.	0.015pF 50V K
C0640	NCB21HK-223X	C CAP.	0.022pF 50V K
C0641	NCB21HK-222X	C CAP.	2200pF 50V K
C0642	NDC21HJ-2R0X	C CAP.	2.0pF 50V J
C0643	QENCLHM-105Z	BP E CAP.	1.0pF 50V M
C0645	NCB21HK-103X	C CAP.	0.01pF 50V K
C0646	NCB21EK-104X	C CAP.	0.1pF 25V K
C0647	QETNLCM-107Z	E CAP.	100pF 16V M
C0648	NCB21EK-104X	C CAP.	0.1pF 25V K
C0659-60	QENCLHM-105Z	BP E CAP.	1.0pF 50V M
C0677-78	NCB21HK-102X	C CAP.	1000pF 50V K
COIL			
L0114	QR0716-001Z	COIL	
L0601	QQL244K-220Z	PEAKING COIL	
L0602	QQL244K-180Z	COIL	18pH K
L0604	QQL244K-100Z	COIL	10pH K
L0605	QQL244K-4R7Z	COIL	4.7pH K
DIODE			
D0101-13	MA3120/M/-X	ZENER DIODE	
D0601	R08.2E/B2/-T2	ZENER DIODE	
TRANSISTOR			
Q0101	DTC323TK-X	DIGI TRANSISTOR	
Q0102	2SA1037AK/QR/-X	SI TRANSISTOR	
Q0103	DTC323TK-X	DIGI TRANSISTOR	
Q0104-07	2SC2412K/QR/-X	SI TRANSISTOR	
Q0108	2SA1037AK/QR/-X	SI TRANSISTOR	
Q0109-10	DTC323TK-X	DIGI TRANSISTOR	
Q0111-12	2SC2412K/QR/-X	SI TRANSISTOR	
Q0116	2SA933AS/QR/-T	SI TRANSISTOR	
Q0118	2SC1740S/QR/-T	SI TRANSISTOR	
Q0119-20	2SC2412K/QR/-X	SI TRANSISTOR	
Q0601	2SC2412K/QR/-X	SI TRANSISTOR	
Q0602	DTC323TK-X	DIGI TRANSISTOR	
Q0603	2SA1037AK/QR/-X	SI TRANSISTOR	
IC			
IC0101	CXA20890-X	IC	
IC0602	BA4558F-X	IC	
IC0603	MSP3415DQGB3GHX	IC	
OTHERS			
CN0006	QGBJ505K1-50	CONNECTOR	
J0001	QN20465-001	PIN CONNECTOR	
J0002	QN20463-001	PIN CONNECTOR	
K0101-04	CE42681-001Y	BEADS CORE	
K0601	QR0621-002Z	BEADS CORE	
LC0601-02	CE42482-103Y	EMI FILTER	
X0601	CE42546-001Z	X TAL	