

SERVICE MANUAL

BA-5 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KV-27FS13	RM-Y180	USA	SCC-S40NA
KV-27FS13	RM-Y180	CND	SCC-S41LA
KV-27FS17	RM-Y181	USA	SCC-S40PA
KV-27FV17	RM-Y181	USA	SCC-S40MA
KV-27FV17	RM-Y181	CND	SCC-S41KA
KV-29FV17	RM-Y181	E	SCC-S38XA
KV-29FV17C	RM-Y181	E	SCC-S38YA
KV-32FS13	RM-Y180	USA	SCC-S40QA
KV-32FS13	RM-Y180	CND	SCC-S41MA
KV-32FS17	RM-Y181	USA	SCC-S40RA
KV-34FS13C	RM-Y180	E	SCC-S56DA
KV-34FS17	RM-Y181	E	SCC-S56JA



KV-27FV17



KV-27FS17




RM-Y181

TRINITRON® COLOR TELEVISION

SONY®

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SPECIFICATIONS

	KV-27FV17/ 29FV17	KV-29FV17C	KV-27FS13	KV-27FS17	KV-32FS13	KV-34FS13C	KV-32FS17/ 34FS17
Power requirements	120V, 60 Hz	220V, 50 Hz	120V, 60 Hz	120V, 60 Hz	120V, 60 Hz	220V, 50 Hz	120V, 60 Hz
Number of inputs/outputs							
Video ¹⁾	3	3	3	3	3	3	3
S Video ²⁾	2	2	1	1	1	1	1
Audio ³⁾	3	3	3	3	3	3	3
Audio Out ⁴⁾	1	1	1	1	1	1	1
Y, P _B , P _R ⁵⁾	1	1	1	1	1	1	1
Monitor Out	1	1	--	--	--	--	--
Speaker output(W)	15W x 2	15W x 2	7.5W x 2	7.5W x 2	10W x 2	10W x 2	10W x 2
Power Consumption(W)							
In use(Max)	220W	210W	170W	180W	195W	195W	205W
In standby	1W	1W	1W	1W	1W	1W	1W
Dimensions(W/H/D)							
(mm)	762 x 604 x 519 mm	762 x 604 x 519 mm	700 x 632 x 512 mm	762 x 604 x 519 mm	800 x 704 x 582 mm	700 x 632 x 512 mm	762 x 604 x 519 mm
(in)	30 x 23 ^{7/8} x 20 ^{1/2} in.	30 x 23 ^{7/8} x 20 ^{1/2} in.	27 ^{5/8} x 25 x 20 ^{1/4} in.	30 x 23 ^{7/8} x 20 ^{1/2} in.	31 ^{1/2} x 27 ^{3/4} x 23 in.	27 ^{5/8} x 25 x 20 ^{1/4}	30 x 23 ^{7/8} x 20 ^{1/2} in.
Mass							
(kg)	49 kg.	49 kg.	47 kg.	49 kg.	75 kg.	75 kg.	75 kg.
(lbs)	108 lbs.	108 lbs.	103 lbs. 10 oz.	108 lbs.	163 lbs.	163 lbs.	163 lbs.

Television system

American TV Standard/NTSC

Channel coverage

VHF: 2-13/ VHF: 14-69/ CATV: 1-125

Picture tube

Flat Trinitron[®] tube

Visible screen size

27-inch picture measured diagonally (KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)

32-inch picture measured diagonally (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)

Actual screen size

29-inch measured diagonally (KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)

34-inch measured diagonally (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-Y180 (KV-27FS13/32FS13/34FS13C ONLY)

Remote Commander RM-Y181 (KV-27FS17/27FV17/29FV17/29FV17C/32FS17/34FS17 ONLY)

Size AA (R6) batteries (2)

Optional Accessories

Connecting cables: VMC-810S/820S, VMC-720M,

YC-15V/30V, RK74A

U/V mixer EAC-66

TV Stand: SU-27FD4 (KV-27FS13/ 27FS17/ 27FV17 ONLY)

TV Stand: SU-27FD3 (KV-29FV17/ 29FV17C ONLY)

TV Stand: SU-32FD3 (KV-34FS17/34FS13C ONLY)

TV Stand: SU-32FD4 (KV-32FS13/ 32FS17 ONLY)

(●) SRS (SOUND RETRIEVAL SYSTEM)

The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word 'SRS' and the SRS symbol (●) are registered trademarks of SRS Labs, Inc. BBE and BBE symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258.

Design and specifications are subject to change without notice.

WARNINGS AND CAUTIONS

CAUTION


Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the AC power line.



SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and  mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.


ATTENTION!!

Après avoir déconnecté le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au châssis métallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.



ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifiés par une trame et par une marque  sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel ou dans des suppléments publiés par Sony. Les réglages de circuit dont l'importance est critique pour la sécurité du fonctionnement sont identifiés dans le présent manuel. Suivre ces procédures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

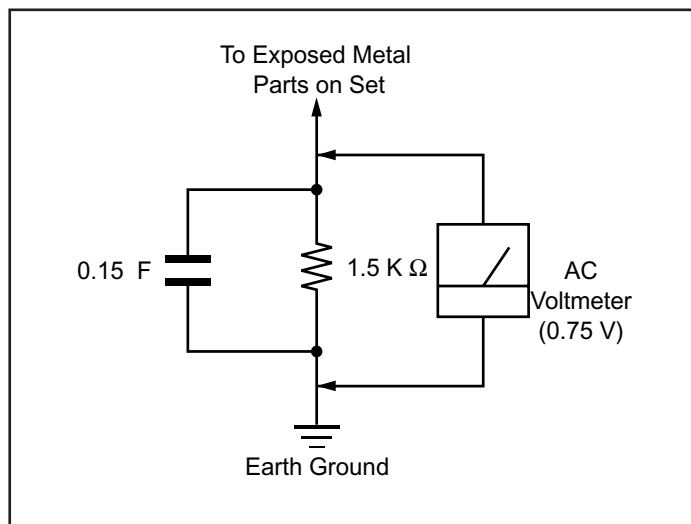


Figure A. Using an AC voltmeter to check AC leakage.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

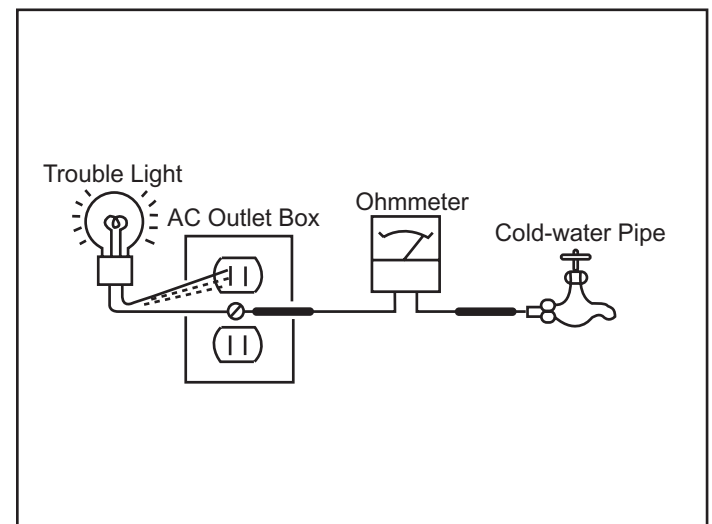


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

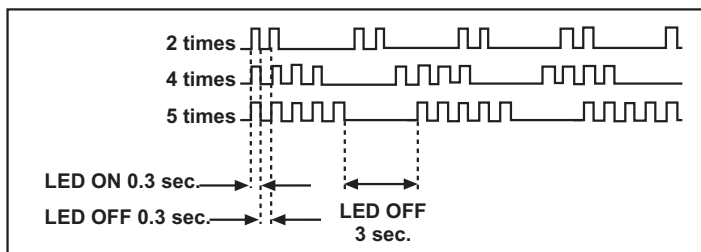
Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays "0".

Diagnostic Item Description	No. of times STANDBY/ TIMER lamp flashes	Self-Diagnostic Display/ Diagnostic Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	—————	<ul style="list-style-type: none"> Power cord is not plugged in. Fuse is burned out (F601). (A Board) 	<ul style="list-style-type: none"> Power does not come on. No power is supplied to the TV. AC Power supply is faulty.
+B overcurrent (OCP)*	2 times	2:0 or 2:1	<ul style="list-style-type: none"> H.OUT (Q502) is shorted. (A Board) IC702 is shorted. (CA Board) 	<ul style="list-style-type: none"> Power does not come on. Load on power line is shorted.
I-Prot	4 times	4:0 or 4:1	<ul style="list-style-type: none"> +13V is not supplied. (A Board) IC502 is faulty. (A Board) 	<ul style="list-style-type: none"> Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
IK (AKB)	5 times	5:0 or 5:1	<ul style="list-style-type: none"> Viedo OUT (IC502) is faulty. (A Board) IC301 is faulty. (MA Board) Screen (G2) is improperly adjusted.** 	<ul style="list-style-type: none"> No raster is generated. CRT Cathode current detection reference pulse output is small.

*If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

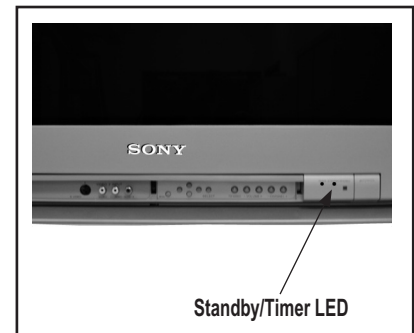
**Refer to Screen (G2) Adjustments in Section 2-4. of this manual.

Display of Standby/Timer LED Flash Count



Diagnostic Item	Flash Count*
+B Overcurrent	2 times
I-Prot	4 times
IK (AKB)	5 times

*One flash count is not used for self-diagnostic.



Stopping the Standby/Timer LED Flash

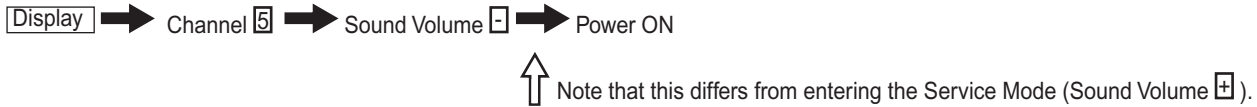
Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:



Self-Diagnostic Screen Display

SELF DIAGNOSTIC	
2:	000
3:	N/A
4:	000
5:	001
101:	N/A

Numeral “0” means that no fault was detected.
Numerical “1” means a fault was detected one time only.

Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

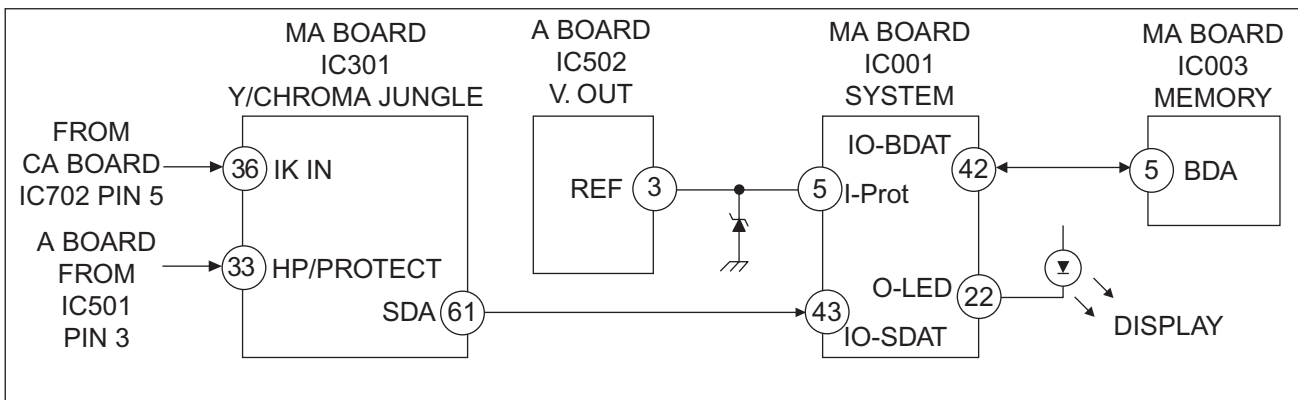
To clear the result display to “0”, press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:



Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



+B overcurrent (OCP)

Occurs when an overcurrent on the +B (135V) line is detected by pin 33 of IC301 (MA Board). If the voltage of pin 33 of IC301 (MA Board) is less than 1V when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

I-Prot

Occurs when an absence of the vertical deflection pulse is detected by pin 5 of IC001 (MA Board). Power supply will shut down when waveform interval exceeds 2 seconds.

IK (AKB)

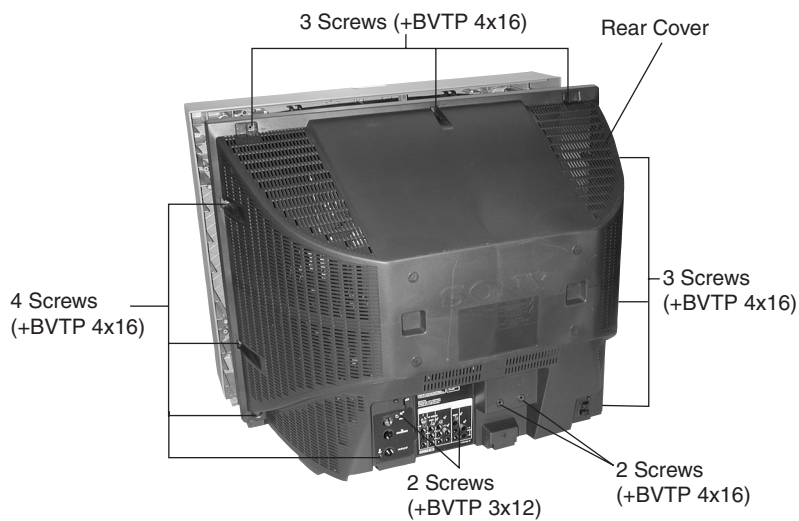
If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC301 (MA Board). TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

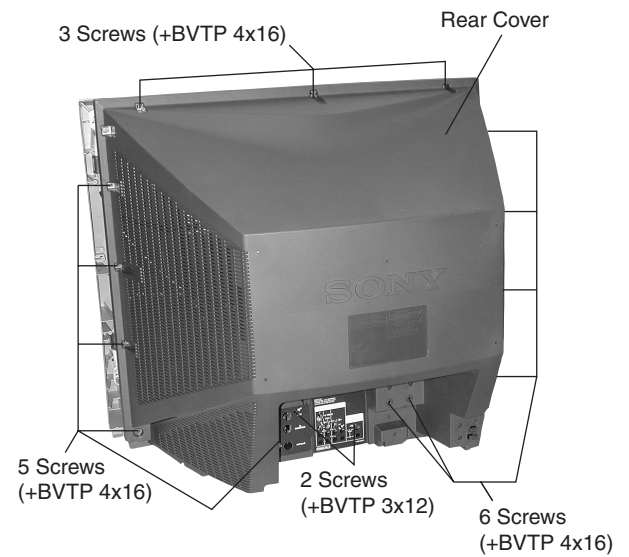
SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL

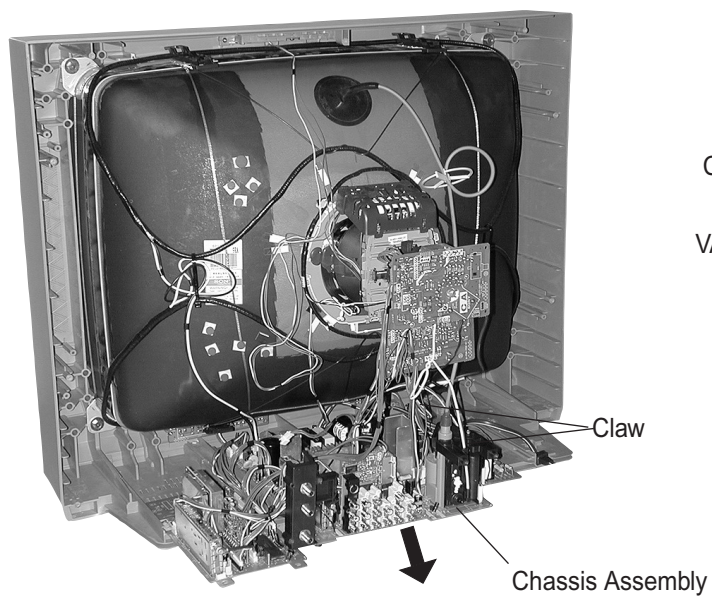
KV-27FS13/27FS17/27FV17/29FV17/29FV17C



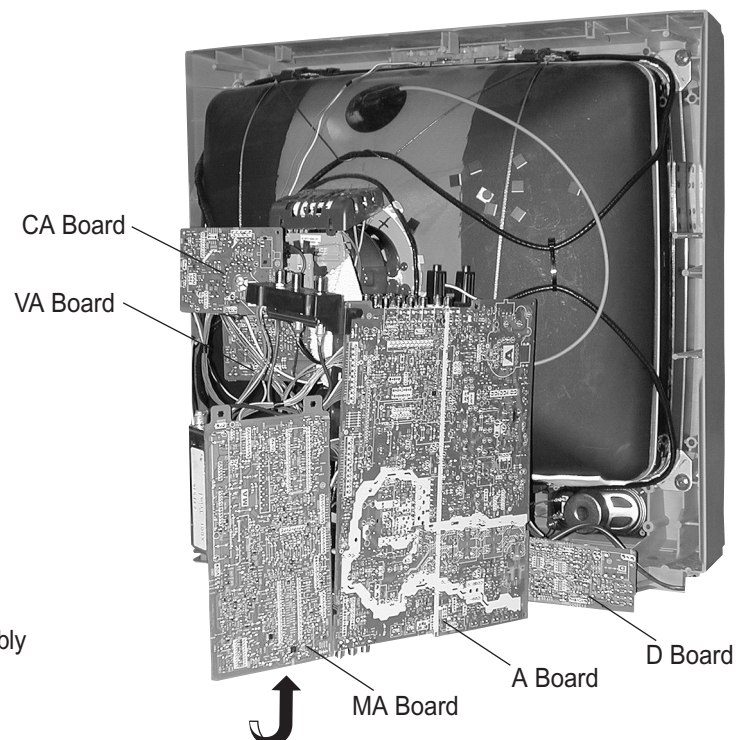
KV-32FS13/32FS17/34FS13C/34FS17 ONLY



1-2. CHASSIS ASSEMBLY REMOVAL



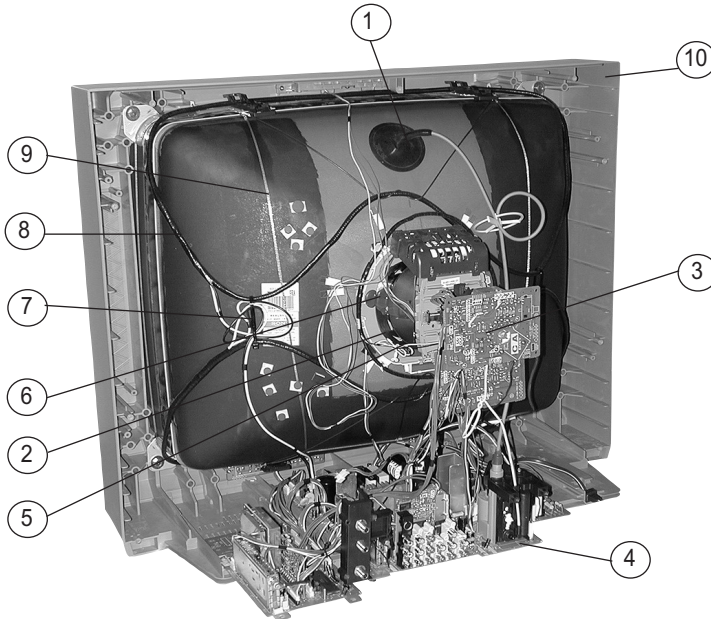
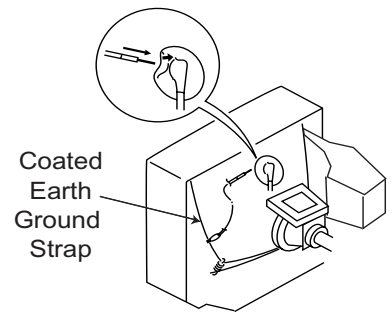
1-3. SERVICE POSITION



1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

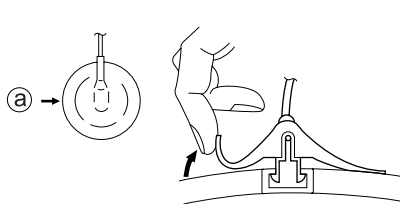


1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the CA and VA Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the neck assembly fixing screw and remove.
6. Loosen the deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
8. Remove the degaussing coils.
9. Remove the CRT grounding strap and spring tension devices.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

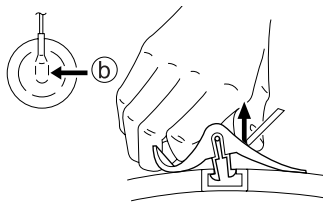
ANODE CAP REMOVAL PROCEDURE

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

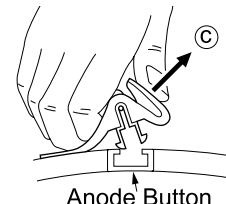
NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.



- ① Turn up one side of the rubber cap in the direction indicated by arrow (a) .



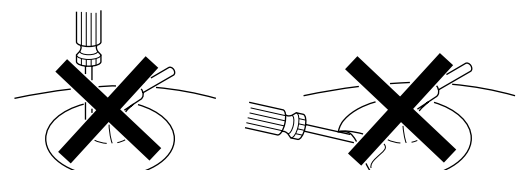
- ② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b) .



- ③ When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow (c) .

HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Set the controls as follows unless otherwise noted:

VIDEO MODE: Standard

PICTURE CONTROL: Normal

BRIGHTNESS CONTROL: Normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Note Test Equipment Required:

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

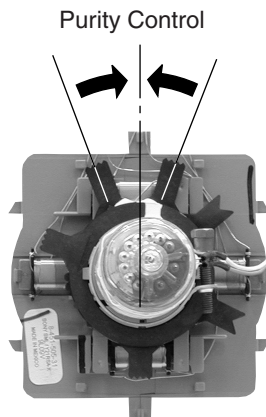
2-1. BEAM LANDING

Before beginning adjustment procedure:

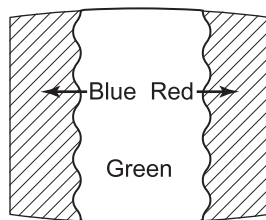
1. Degauss the entire screen.
2. Feed in the white pattern signal.

ADJUSTMENT PROCEDURE

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:

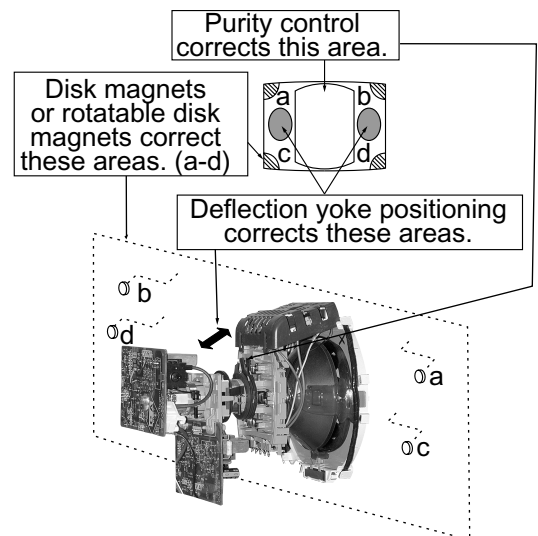
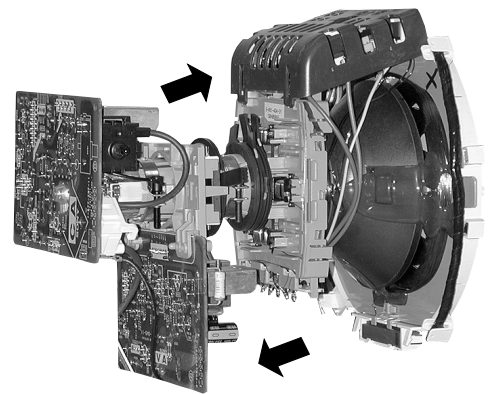


3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. If landing at the corner is not right, adjust by using the disk magnets.



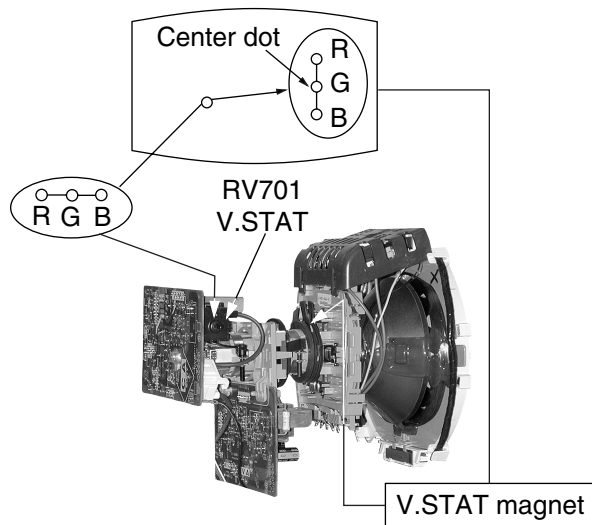
2-2. CONVERGENCE

Before starting convergence adjustments:

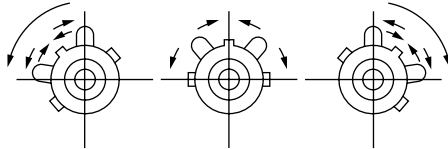
1. Perform FOCUS, VLIN and VSIZE adjustments.
2. Set BRIGHTNESS control to minimum.
3. Feed in dot pattern.

VERTICAL STATIC CONVERGENCE

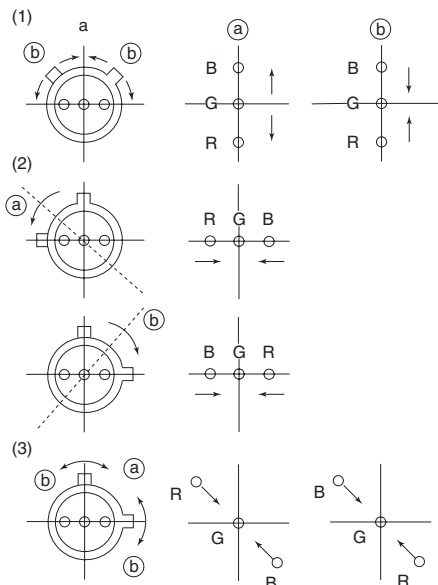
1. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen (Vertical movement adjusts V.STAT RV701 to converge).



2. Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



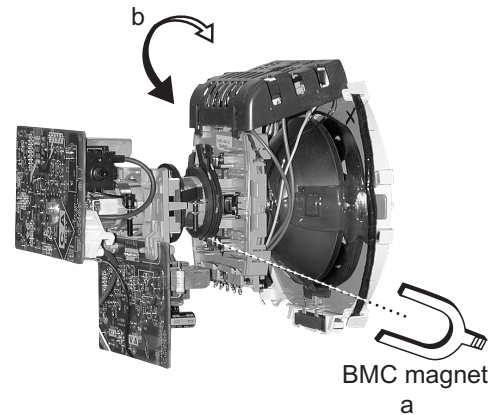
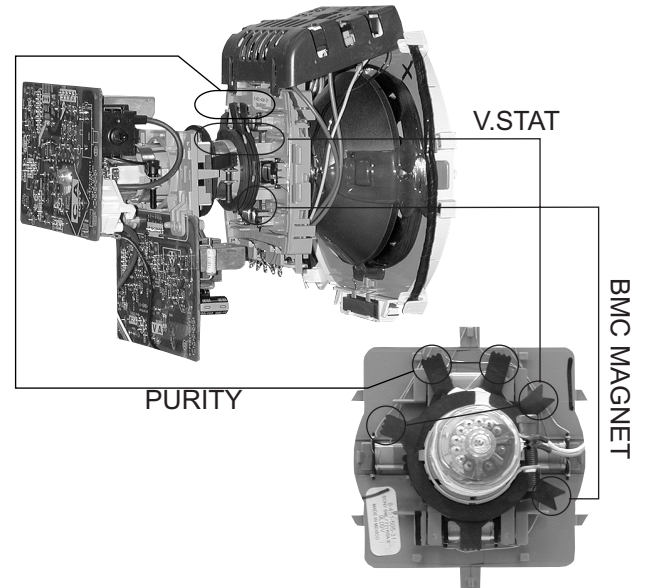
When the V. STAT magnet is moved in the direction of arrow a and b, red, green, and blue dots move as shown below:



HORIZONTAL STATIC CONVERGENCE

If the blue dot does not converge with the red and green dots, perform the following:

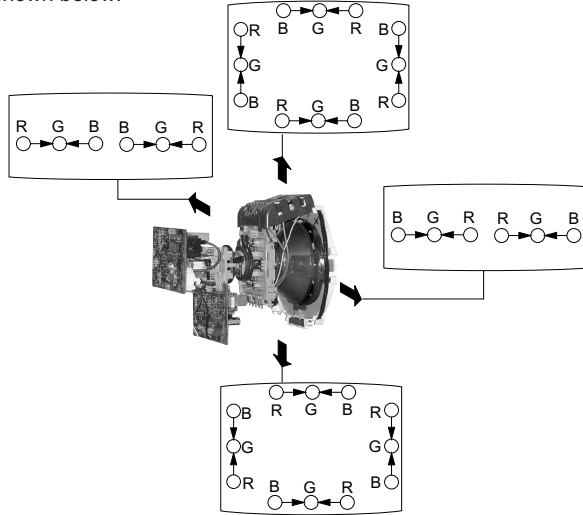
1. Move BMC magnet (a) to correct insufficient H.Static convergence.
2. Rotate BMC magnet (b) to correct insufficient V.Static convergence.
3. After adjusting the BMC magnet, repeat Beam Landing Adjustment.



DYNAMIC CONVERGENCE ADJUSTMENT

Before performing this adjustment, perform Horizontal and Vertical Static Convergence Adjustment.

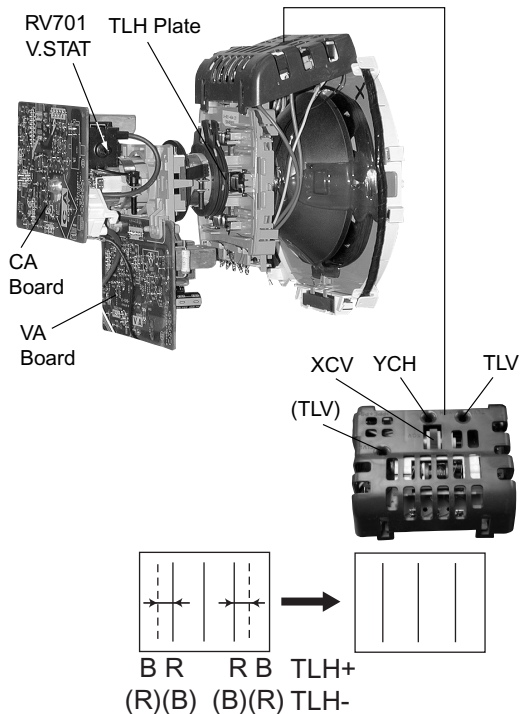
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below:



4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

TLH PLATE ADJUSTMENT

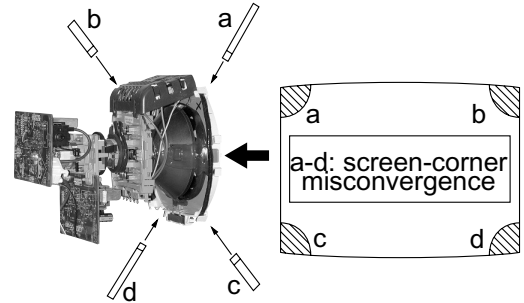
1. Input crosshatch pattern.
2. Adjust PICTURE QUALITY to standard, PICTURE and BRIGHTNESS to 50%, and OTHER to standard.
3. Adjust the Horizontal Convergence of red and blue dots by tilting the TLH plate on the deflection yoke.



4. Adjust XCV core to balance X axis.
 5. Adjust YCH VR to balance Y axis.
 6. Adjust vertical red and blue convergence with V.TILT (TLV VR).
- Note: Perform adjustment 3-6 while tracking items 1 and 2.

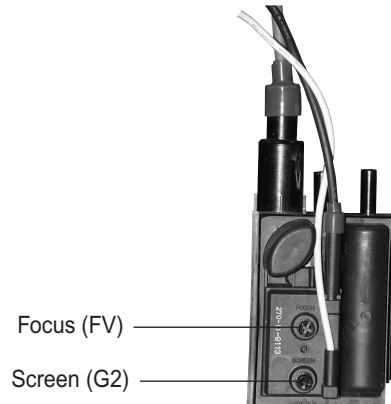
SCREEN-CORNER CONVERGENCE

1. Affix a permalloy assembly corresponding to the misconverged areas:



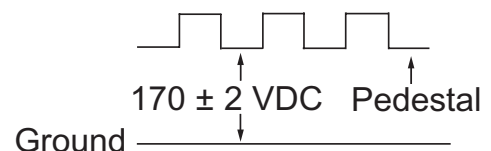
2-3. FOCUS

1. Adjust FOCUS control for best pictures.



2-4. SCREEN (G2)

1. Input a dot pattern.
2. Set the PICTURE and BRIGHTNESS controls at minimum and COLOR control at normal.
3. Adjust SBRT, GCUT, BCUT in service mode with an oscilloscope as shown below so that voltages on the red, green, and blue cathodes are 170 ± 2 VDC.



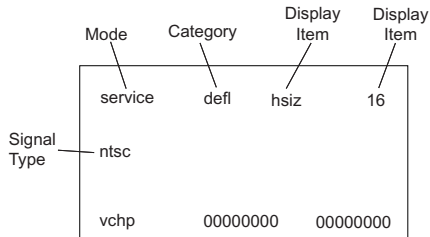
2-5. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

1. Standby mode (power off).
2. Press **[Display]** → Channel **[5]** → Sound Volume **[+]** → Power on the Remote Commander (press each button within a second).

SERVICE ADJUSTMENT MODE ON

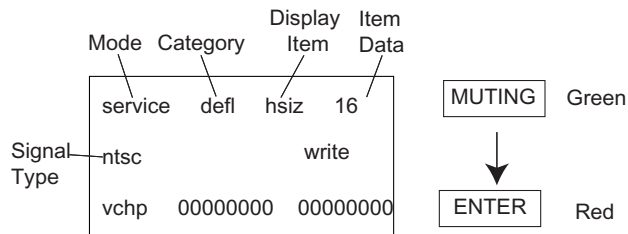
1. The CRT displays the time being adjusted.



2. Press **[1]** or **[4]** on the Remote Commander to select the time.
3. Press **[3]** or **[6]** on the Remote Commander to change the data.
4. Press **[MUTING]** then **[ENTER]** to save into the memory.

SERVICE ADJUSTMENT MODE MEMORY

Turn the set off then on to exit Service Adjustment Mode.






2-6. WHITE BALANCE ADJUSTMENTS

1. Input an entire white signal with burst.
2. Set to Service Adjustment Mode.
3. Set the PICTURE and BRIGHTNESS to minimum.
4. Adjust with SBRT if necessary.
5. Select GCUT and BCUT with **[1]** and **[4]**.
6. Adjust with **[3]** and **[6]** for the best white balance.
7. Set the PICTURE and BRIGHTNESS to maximum.
8. Select GDRV and BDRV with **[1]** and **[4]**.
9. Adjust with **[3]** and **[6]** for the best white balance.
10. To write into memory, press **[MUTING]** then **[ENTER]**.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. R564 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components which are marked with  on the schematic diagram:

Part Replaced ()	Adjustment ()
DY, T505, CRT, IC501 C507, C520, C505, C509, C515, T504, T503, C551, L510, C546, C537, C547, D517, D518, D519, R560, R561, R562, R563, R565, R566, R567, R525.....A Board IC301.....MA Board	HV HOLD-DOWN R564


PREPARATION BEFORE CONFIRMATION

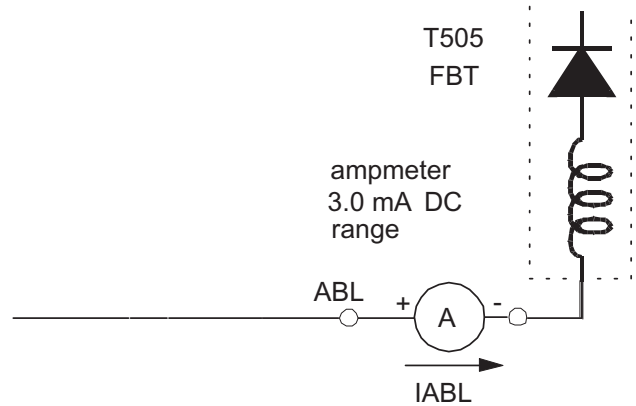
- Using a Variac, apply AC input voltage: 120 ± 2 VAC.
- Turn the POWER switch ON.
- Input a white signal and set the PICTURE and BRIGHTNESS controls to maximum.
- Confirm that the voltage between C546 (+) or TP503 and ground is more than 21.0 VDC (27/29 inch) or 23.0 VDC (32/34 inch).

HOLD-DOWN OPERATION CONFIRMATION


- Connect the current meter between Pin 11 of the FBT (T505) and the PWB land where Pin 11 would normally attach (See Figure 1 on the next page).
- Input a dot signal and set PICTURE and BRIGHTNESS to minimum: IABL = $1730 \pm 100\mu\text{A}$ (27/29 inch) or $2175 +100 - 325\mu\text{A}$ (32/34inch).
- Confirm the voltage of A Board TP-600 is 135 ± 1.5 VDC.
- Connect the digital voltmeter and the DC power supply via Diode 1SS119 to C546 (+) and ground (See Figure 1 on next page).
- Increase the DC power voltage gradually until the picture blanks out.
- Turn DC power source off immediately.
- Read the digital voltmeter indication (standard $24.78 +0/-0.1$ VDC [27/29 inch] or $27.24 +0/-0.1$ VDC [32/34 inch]).
- Input a white signal and set PICTURE and BRIGHTNESS to maximum: IABL = $1730 \pm 100\mu\text{A}$ (27/29 inch) or $2175 +100/-325 \mu\text{A}$ (32/34 inch).
- Repeat steps 4 to 7.

HOLD-DOWN READJUSTMENT

If the setting indicated in Step 2 of Hold-Down Operation Confirmation cannot be met, readjustment should be performed by altering the resistance value of R564 component marked with .



3-2. B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

Note: The following adjustments should always be performed when replacing the following components, which are marked with  on the schematic diagram on the A Board:

A BOARD: IC601, PH601

- Using a Variac, apply AC input voltage: $130 + 2.0/-0.0$ VAC
- Input a monoscope pattern.
- Set the PICTURE and the BRIGHTNESS controls to minimum.
- Confirm the voltage of A Board TP-600 is <136.5 VDC.
- If step 4 is not satisfied, replace the components listed above, then repeat Steps 1 – 3.

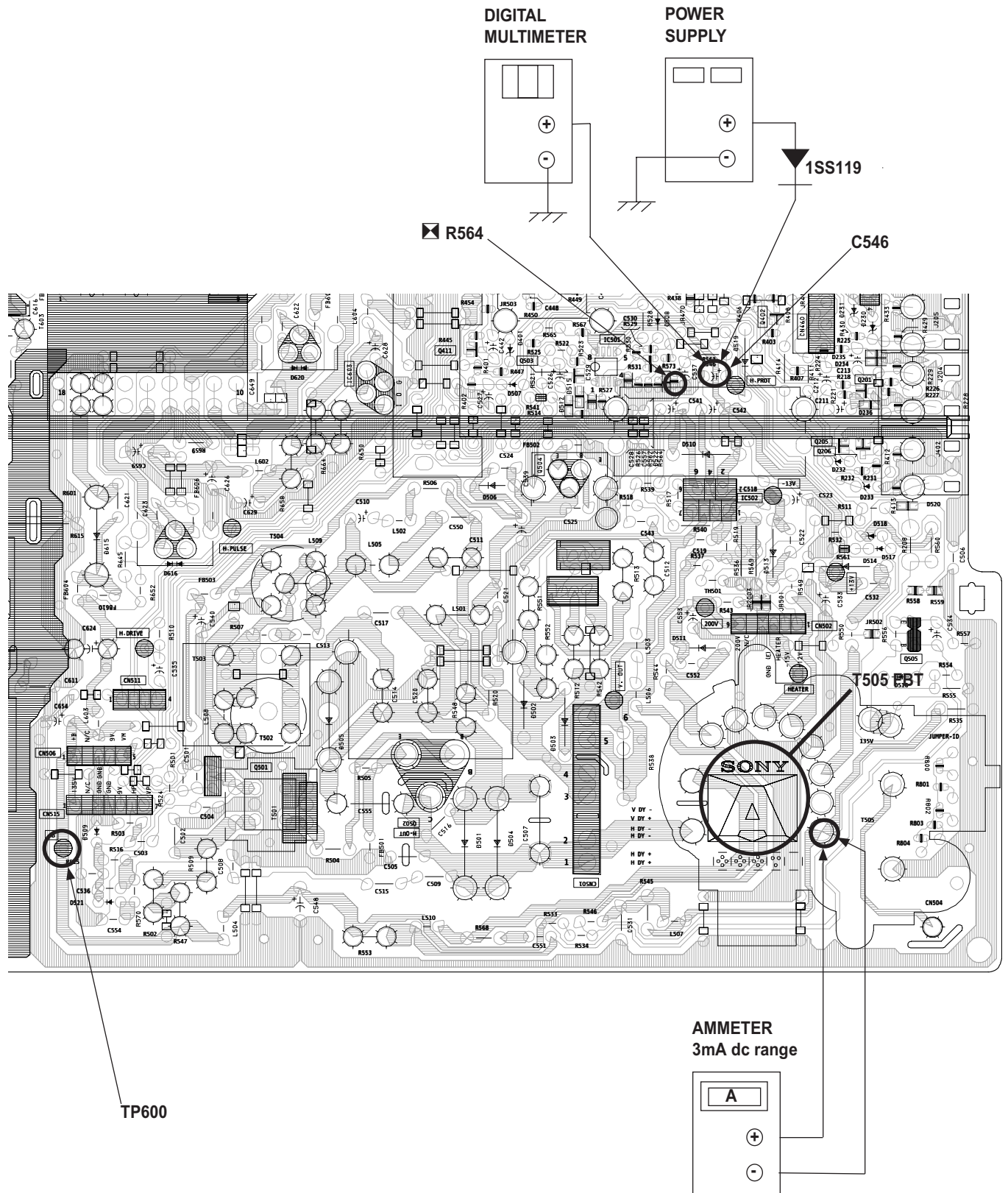


Figure 1

SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y180, RM-Y181) to perform the circuit adjustments in this section.

Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING THE SERVICE ADJUSTMENT MODE

- Standby mode (Power off).
- Press the following buttons on the remote commander within a second of each other:

Display → **Channel 5** → **Sound Volume +** → **Power**

SERVICE ADJUSTMENT MODE ON

- The CRT displays the item being adjusted.

	Mode	Category	Display Item	Item Data
Signal Type	service	defl	hsiz	16
	ntsc			
	vchp	00000000	00000000	

- Press **1** or **4** on the Remote Commander to select the item.
- Press **3** or **6** on the Remote Commander to change the data.
- Press **MUTING** then **ENTER** to write into memory.

SERVICE ADJUSTMENT MODE MEMORY

	Mode	Category	Display Item	Item Data
Signal Type	service	defl	hsiz	16
	ntsc			
	vchp	00000000	00000000	
			write	

MUTING

Green

↓

ENTER

Red

- Press **8** then **ENTER** on the Remote Commander to initialize.

	Mode	Category	Display Item	Item Data
Signal Type	service	defl	hsiz	16
	ntsc			
	vchp	00000000	00000000	
			write	

MUTING

Green

↓

ENTER

Red

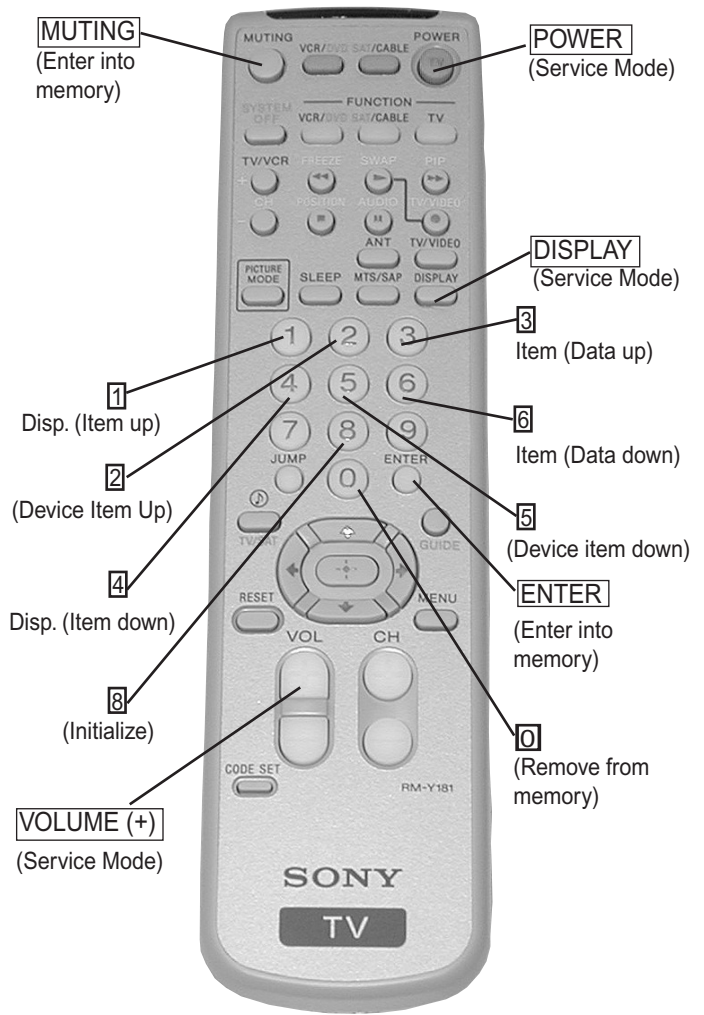
Carry out Step 1 when adjusting IDs 0-6 and when replacing and adjusting IC003

- Turn set off then on to exit service adjustment mode.

4-2. MEMORY WRITE CONFIRMATION METHOD

- After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
- Turn the power switch ON and set to Service Mode.
- Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y181

ADJUSTMENT ITEMS (1 OF 4)

Reg #	ITEM	FUNCTION	RANGE	FIX DATA	NTSC 27	VIDEO	NTSC 32	RF	AVERAGE DATA 27	AVERAGE DATA 32
1	HSIZ	Horizontal Size Adjustment	0-63		0		18		11	22
2	HPOS	Horizontal Position Adjustment	0-63		13		13		20	22
3	VBOW	Vertical Line Bowing Adj.	0-15		9		9		7	9
4	VANG	Vertical Line Bowing Slant Adj.	0-15		8		3		9	7
5	VTRP	TRAPEZIUM	0-31		19		18		21	17
6	HTRP	Horiz. Trapezoid	0-15		6		6		0	2
7	TROT	Tilt Correction	0-63		31		31		31	31
8	PAMP	Horizontal PIN distortion Adj.	0-63		19		27		20	27
9	UPIN	Upper PIN Distortion Adj.	0-63		34		41		37	38
10	LPIN	Lower PIN Distortion Adj.	0-63		32		39		33	35
11	VSIZ	Vertical Size Adjustment	0-63		32		51		33	51
12	VPOS	Vertical Position Adj.	0-63		30		42		36	39
13	VLIN	Vertical Lineality Adj.	0-15		3		5		3	4
14	SCOR	Vertical "S" Correction Adjustment	0-15		6		8		8	8
15	VZOM	16:9 CRT Z Mode on/off	0-1	0					0	0
16	EHT	Vertical High-Voltage Compensation	0-15	5					5	5
17	ASP	Aspect Ratio Control	0-63	47					47	47
18	SCRL	16:9 CRT Z Mode Trans. Scroll	0-63	31					31	31
19	HBLK	Horizontal Blanking on/off	0-1	1					1	1
20	LBLK	Left Blanking Adjustment	0-15	****					13	13
21	RBLK	Righth Blanking Adjustment	0-15	*****					7	8
22	HDW	Horizontal Drive Pulse Width	0-1	1					1	1
23	EWDC	"Parabola" EW, D.C. Adjustment	0-1	0					0	0
24	LVLN	Lower Screen BTM Vertical Line Adj.	0-15	0					0	0
25	UVLN	Upper Screen BTM Vertical Line Adj.	0-15	0					0	0
26	INTL	INTERLACE	0-3	0					0	0
27	G2SW		0-1	0					0	0
28	G2LV		0-7	0					0	0
29	HOSC	Horizontal VCO Oscillation Freq.	0-15	12					7	7
30	VSS	Vertical Sync Slice Level	0-3	0					0	0
31	HSS	Horizontal Sync Slice Level	0-1	0					0	0
32	HMSK	For Macro Vision	0-1	0					0	0
33	VTMS	Select Signal VTIM Pin	0-3	0					0	0
34	CDMD	Vertical Count Down Mode Switching	0-3			3		*	3	3
35	AFC	AFC Loop Gain Switching	0-3	0					0	0
36	FIFR	Field Frequency	0-3	3					3	3
37	VBLK	VBLKW	0-3	0					0	0
38	REFP	REFP	0-1	0					0	0
39	JPSW	JUMPSW	0-1	MENU					0	0
40	RDRV	R Output Drive control	0-63	***					31	40
41	GDRV	G Output Drive control	0-63	25					22	42
42	BDRV	B Output Drive control	0-63	25					21	31
43	RCUT	R Output Cutoff control	0-63	31					31	31
44	GCUT	G Output Cutoff control	0-63	15					13	12
45	BCUT	B Output Cutoff control	0-63	12					14	15
46	SCON	SUB CONT	0-15	8					11	11
47	SHUE	Sub HUE adjustment	0-15	16					17	16
48	SCOL	Sub COLOR adjustment	0-15		18				17	18
49	SBRT	Sub BRIGHTNESS adjustment	0-31	16					15	16
50	CHUE	SUB COLOR (RF)	0-31	7					6	6
51	CCOL	SUB COLOR (RF)	0-31		7				7	4
52	UOFS	YUV U OFFSET	0-15	7					7	7
53	VOFS	YUV V OFFSET	0-15	7					7	7
54	RON	R Output on/off	0-1	1					1	1

* CDMD = 3 for US & CND, CDMD = 0 for Other

*** RDRV = 41 for 27FS/32FS families, 31 for 27FV family

****LBLK = 0 for 27FV/29FV/32FS/34FS family, 5 FOR 27FS family

***** RBLK = 3 for 27FV/29FV/32FS/34FS family, 2 for 27FS family

ADJUSTMENT ITEMS (2 OF 4)

Reg #	ITEM	FUNCTION	RANGE	FIX DATA	NTSC 27	VIDEO	NTSC 32	RF	AVERAGE DATA 27	AVERAGE DATA 32
55	GON	G Output on/off	0-1	1					1	1
56	BON	B Output on/off	0-1	1					1	1
57	AXPL	Axis PAL	0-1	0					0	0
58	AXNT	Axis NTSC	0-1	1					1	1
59	CBPF	Chroma BPF on/off	0-1	1					1	1
60	CTRP	Y TRAP FILTER on/off	0-1	1					1	1
61	COFF	Color On/off	0-1	0					0	0
62	KOFF	Set Color Killer	0-1	0					0	0
63	SSHP	Sub SHARPNESS	0-15	5					5	5
64	SHPF	SHARPNESS Circuit Fo	0-3	Palette Mode Controls This Register					2	2
65	PREL	Pre-Shoot/ Over-Shoot	0-1	1					0	0
66	Y-DC	DC transmission Ratio Switching	0-3	Palette Mode Controls This Register					2	2
67	GAMM	Gamma Correction	0-3	Palette Mode Controls This Register					2	2
68	ABLM	ABL Mode Switch	0-1	1					1	1
69	VTH	ABL CD VHT Switching	0-1	1					1	1
70	YDEL	Y Delay Time Control	0-15	7					7	7
71	NCOL	No Color ID	0-1	1					1	1
72	FSC	FSC Out on/off	0-1	1					1	1
73	K-ID	Killer ID Control on/off	0-1	0					0	0
74	GDOF		0-31	3					3	3
75	BDOF		0-31	16					16	16
76	GCOF		0-31	16					16	16
77	BCOF		0-31	7					7	7
78	SYSC	Color System	0-7	4					4	4
79	VENH	Vertical Enhancement	0-7	Palette Mode Controls This Register					5	3
80	PDSO	PDS OFF	0-1	0					0	0
81	CK	CK	0-1	0					0	0
82	VNL	VNL	0-15	3					3	3
83	HPK	HPK	0-1	0					0	0
84	HPKO	HPK OFF	0-1	Palette Mode Controls This Register					0	0
85	CORE	CORE	0-3	2					1	1
86	TRAP	TRAP	0-1	1					1	1
87	CHTR	CH TRAP	0-1	0					0	0
88	CBPF	CBPF	0-1	1					1	1
89	ENHO	ENH OFF	0-1	0					0	0
90	NMRD	NMRD	0-3	0					0	0
91	YAPS	YAPS	0-3	3					3	3
92	CLKS	CLKS	0-3	0					0	0
93	NSTD	NSTD	0-3	0					0	0
94	MSS	MSS	0-3	0					0	0
95	KILS	KILS	0-3	1					1	1
96	ADIN	ADIN	0-1	0					0	0
97	EXCS	EXCSS	0-3	1					1	1
98	CPP	CPP	0-3	2					2	2
99	HDP	HDP	0-7	4					4	4
100	CDL	CDL	0-7	4					4	4
101	DYCR	DYCOR	0-15	2					2	2
102	DYGN	DYGAIN	0-15	10					10	10
103	DCCR	DCCOR	0-15	3					3	3
104	DCGN	DCGAIN	0-15	6					6	6
105	YNRL	YNRLIM	0-3	1					1	1
106	CNRL	CNRLIM	0-3	1					1	1
107	WSC	WSC	0-3	1					1	1
108	VTRH	VTRH	0-3	1					1	1

ADJUSTMENT ITEMS (3 OF 4)

Reg #	ITEM	FUNCTION	RANGE	FIX DATA	NTSC 27	VIDEO	NTSC 32	RF	AVERAGE DATA 27	AVERAGE DATA 32
109	VTRR	VTRR	0-3	1					1	1
110	LDSR	LDSR	0-3	2					2	2
111	VAPG	VAPGAIN	0-7	3					3	3
112	VAPI	VAPINV	0-31	6					6	6
113	TEST	TEST	0-1	0					0	0
114	YPFT	YPFT	0-3	3					3	3
115	YPFG	YPFG	0-15	7					7	7
116	CC3N	CC3N	0-1	0					0	0
117	SELD		0-1	1					1	1
118	D2GN	D2GAIN	0-7	4					5	5
119	YHCR	YHCOR	0-3	0					0	0
120	YPFC	YPFCOR	0-1	0					0	0
121	SHT	SHT	0-3	0					0	0
122	MVT	MVT	0-1	0					0	0
123	OTT	OTT	0-1	0					0	0
124	CL2D	CL2D	0-1	1					1	1
125	CLKG	CLKGGT	0-1	0					0	0
126	HPLL	HPLLFS	0-1	1					1	1
127	BPLL	BPLLFS	0-1	0					0	0
128	FSCF	FSCFG	0-1	0					0	0
129	PLLS	PLLS	0-1	1					1	1
130	KILR	KILR	0-15	3					3	3
131	HSSL	HSSL	0-15	12					12	12
132	VSSL	VSSL	0-15	8					8	8
133	BGPS	BGPS	0-15	4					4	4
134	BGPW	BGPW	0-15	10					10	10
135	ADCK	ADCLKS	0-3	3					3	3
136	NSDW	NSDSW	0-1	1					1	1
137	PFRN	FREE_RUN	0-1	0					0	0
138	PRVS	RVS	0-1	0					0	0
139	PCON	CONTRAST	0-127	97					45	45
140	PUCO	U-DAC	0-127	5					16	16
141	PVCO	V-DAC	0-127	5					24	24
142	PHUE		0-31	12					15	15
143	PKIL	KILLER	1	0					0	0
144	PSEP	EXT_SC_SEL	0-3	1					2	2
145	PHIM		0-1	0					0	0
146	PSUB		0-1	0					0	0
147	PBGS	BG_START	0-63	14					14	14
148	PDL0		0-15	10					6	6
149	PDL1		0-15	13					13	13
150	PBRT	Y_OFFSET	0-31	25					25	25
151	PVP1			0					0	0
152	PUP1			0					0	0
153	PVP2			0					0	0
154	PUP2			0					0	0
155	PVP3			0					0	0
156	PUP3			0					0	0
157	PACS	SET_ACC	0-1	1					1	1
158	PSDL	YUV_Color (More Significant)	0-3	2					0	0
159	PDCO	YUV_Color (Less Significant)	0-3	2					0	0

ADJUSTMENT ITEMS (4 OF 4)

Reg #	ITEM	FUNCTION	RANGE	FIX DATA	NTSC 27	VIDEO	NTSC 32	RF	AVERAGE DATA 27	AVERAGE DATA 32
160	PCGA	C_GAIN	0-1	1					1	1
161	PAAF		0-1	0					0	0
162	PSU2		0-1	0					0	0
163	PCVF		0-1	0					0	0
164	PBIT	BITSEL	0-1	0					0	0
165	PAFC	AFCBITSEL	0-1	0					0	0
166	PACC	ACC_LEVEL	0-63	21					22	22
167	PBUR	BURST_CLK	0-1	0					0	0
168	PEVE	EVENUPRA	0-1	0					0	0
169	PINW	INV_WFF	0-1	0					0	0
170	PINR	INV_REF	0-1	0					0	0
171	PREF	RFF_FIX	0-1	0					0	0
172	PARE	AUTO_REF	0-1	1					1	1
173	PAVE	AVERAGE	0-1	0					0	0
174	PFRA	FREE_RUN_ADJ	0-15	0					0	0
175	PPAL	SUB_PALM_JUDGE	0-255	0					0	0
176	PHPO		0-31	9					7	6
177	PVPO		0-31	22					22	22
178	PHTI	HT	0-15	5					9	9
179	PHAJ	ADJ	0-15	1					1	1
180	PBGY	BGY	0-15	0					0	0
181	PCRO	CROSS_SEL	0-1	0					0	0
182	PPAR	PALRY	0-63	2					2	2
183	PHPF	HPFOFF	0-1	0					0	0
184	PFSC	FSC_OUTPUT	0-1	0					0	0
185	PVCH	SET_VCHIP	0-1	0					0	0
186	PVON	VCHIP_ONLY	0-1	1					1	1
187	PVLN	LINE_NUM	0-31	17					17	17
188	PVSB	STB_DLY	0-255	64					64	64
189	PVLV	L_LEVEL	0-255	130					130	130
190	SBAL	Sub Balance	0-7	5					5	5
191	SBAS	Sub Bass	0-7		****				0	0
192	STRE	Sub Treble	0-7		*****				3	3
193	BBEL	BBE Low	0-15	*****					0	0
194	BBEH	BBE High	0-15	*****					0	0
195	BBE	BBE	0-1	*****					0	0
196	AUX	SRS, Simulated	0-3	0					0	0
197	DISP	O.S.D Display position	0-127	20					32	34
198	HCLW	Horizontal Count Lower limit	0-255	16		16			16	16
199	HCHG	Horizontal Count High limit	0-255	64		64			64	64
200	ID0		0-255	25					See ID Map	
201	ID1		0-255	3					See ID Map	
202	ID2		0-255	91					See ID Map	
203	ID3		0-255	2					See ID Map	
204	ID4		0-255	233					See ID Map	
205	ID5		0-255	17					See ID Map	
206	ID6		0-255	0					See ID Map	

****SBAS = 0 for 27FV/29FV/32FS/34FS family, 5 for 27FS family

***** STRE = 3 for 27FV/29FV/32FS/34FS family, 2 for 27FS family

***** BBEL = 5 for 27FV family; 6 for 29FV family and 0 for 27FS/29FS/32FS family

***** BBEH = 5 for 27FV family; 7 for 29FV family and 0 for 27FS/29FS/32FS family

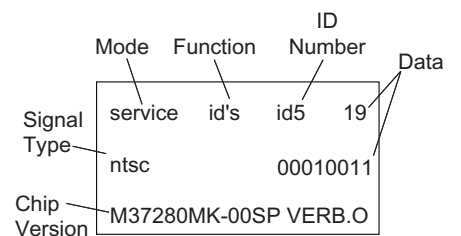
***** BBE = 1 for 27FV/29FV families and 0 for 27FS/29FS/32FS family

Notes:

No. 1-206 show the order that each adjustment mode may be selected while in Service Mode.

Data Range shows the range of possible settings for each Adjustment Mode.

Initial Data shows the standard settings for each Adjustment Mode.



FEATURE ID MAP

Model	Destination	ID-0	ID-1	ID-2	ID-3	ID-4	ID-5	ID-6
KV-27FS13	US	89	31	79	146	137	19	0
KV-27FS13	CND	89	31	79	178	137	19	0
KV-27FS17	US	89	31	79	146	137	19	7
KV-27FV17	US	89	63	239	146	133	19	7
KV-27FV17	CND	89	63	239	178	133	19	7
KV-29FV17	E	17	63	255	130	229	19	7
KV-29FV17C	E	17	63	255	130	229	19	7
KV-32FS13	US	89	31	79	146	137	19	0
KV-32FS13	CND	89	31	79	178	137	19	0
KV-32FS17	US	89	31	79	146	137	19	7
KV-34FS13C	E	17	31	223	130	233	19	0
KV-34FS17	E	17	31	223	130	233	19	7

4-4. MA BOARD ADJUSTMENTS

H. FREQUENCY (FREE RUN) CHECK

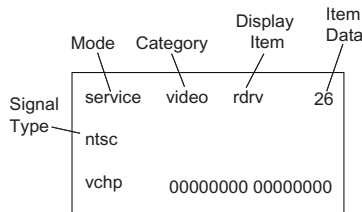
1. Input a TV mode (RF) with no signal.
2. Connect a frequency counter to base of Q501 (TP-500 H. DRIVE) on the A Board.
3. Check H. Frequency for 15735 ± 200 Hz.

V. FREQUENCY (FREE RUN) CHECK

1. Select video 1 with no signal input.
2. Set the conditions for a standard setting.
3. Connect the frequency counter to TP-508 (V OUT) or CN501 pin ⑥ (V DY+) and ground on the A Board.
4. Check that V. Frequency shows 60 ± 4 Hz.

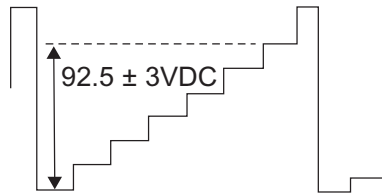
DRIVE (RDRV)

1. Input a color-bar signal and set the level to 75%.
2. Set in Standard Mode.
3. Activate the Service Adjustment Mode.
4. Set both GON and BON items. Using ③ and ⑥ set each to the following values. Leave RON set to "1".



R ON: ON (1)
G ON: OFF (0)
B ON: OFF (0)

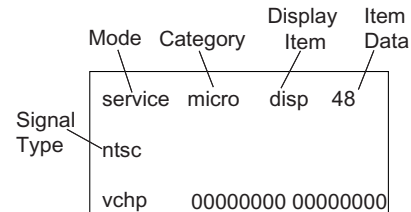
5. Connect an oscilloscope probe to CB Board, J701 Pin 12 (KR) (Red Out).
6. Select RDRV with ① and ④.
7. Adjust the value of RDRV with ③ and ⑥ for 92.5 ± 3 VDC.



8. Reset GON and BON values to "1".
R ON: ON (1)
G ON: ON (1)
B ON: ON (1)
9. Press **MUTING** then **ENTER** to save into the memory.

Display Position Adjustment (DISP)

1. Input a color-bar signal.
2. Set to Service Adjustment Mode.
3. Select DISP with ① and ④.
4. Adjust values of DISP with ③ and ⑥ to adjust characters to the center.
5. Write to memory by pressing **MUTING** then **ENTER**.
6. Check to see if the text is displayed on the screen.

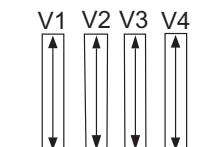


SUB BRIGHT ADJUSTMENT (SBRT)

1. Input a monoscope signal.
2. Activate the Service Adjustment Mode.
3. Set the PICTURE and BRIGHTNESS to minimum.
4. Select the SBRT item with ① and ④.
5. Adjust the values of SBRT with ③ and ⑥ to obtain a faintly visible crosshatch.
6. Press **MUTING** then **ENTER** to save into the memory.

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

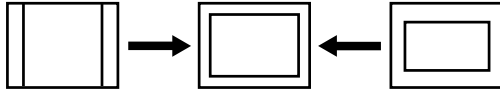
1. Input a color-bar signal.
2. Activate the Service Adjustment Mode.
3. Connect an oscilloscope probe to CB Board, CN705 Pin ④ Blue Out.
4. Select the SHUE and SCOL item with ① and ④.
5. While showing the SHUE item, adjust the waveform with ① and ④ until the second and third bars show the same level ($V2 = V3 < 0.1$ Vp-p).
6. While showing the SCOL item, adjust the waveform with ③ and ⑥ until the first and fourth bars show the same level ($V1 = V4 < 0.1$ Vp-p).



7. Press **MUTING** then **ENTER** to save into the memory.

V. SIZE ADJUSTMENT (VSIZ)

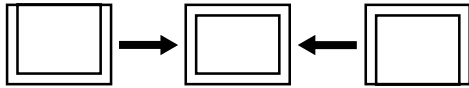
1. Input a crosshatch signal.
2. Activate the Service Adjustment Mode.
3. Select the VSIZ item with **[1]** and **[4]**.
4. Adjust value of VPOS with **[1]** and **[4]** for the best vertical center.
5. Press **[MUTING]** then **[ENTER]** to save into the memory.



V. CENTER ADJUSTMENT (VPOS)

Perform this adjustment after performing H. Frequency (Free Run) Check.

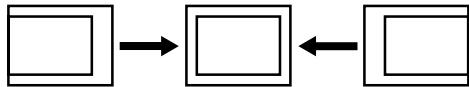
1. Input a crosshatch signal.
2. Activate the Service Adjustment Mode.
3. Select the VPOS item with **[1]** and **[4]**.
4. Adjust value of VPOS with **[3]** and **[6]** for the best vertical center.
5. Press **[MUTING]** then **[ENTER]** to save into the memory.



H. CENTER ADJUSTMENT (HPOS)

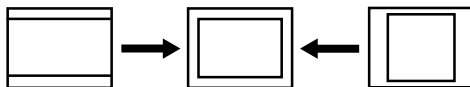
Perform this adjustment after performing H. Frequency (Free Run) Check.

1. Input a crosshatch signal.
2. Activate the Service Adjustment Mode.
3. Select the HPOS item with **[1]** and **[4]**.
4. Adjust the value of HPOS with **[3]** and **[6]** for the best horizontal center.
5. Press **[MUTING]** then **[ENTER]** to save into the memory.



H. SIZE ADJUSTMENT (HSIZ)

1. Input a monoscope signal.
2. Activate the Service Adjustment Mode.
3. Select HSIZ with **[1]** and **[4]**.
4. Adjust with **[3]** and **[6]** for the best horizontal size.
5. Press **[MUTING]** then **[ENTER]** to save into the memory.

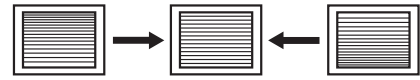


V. LINEARITY (VLIN), V. CORRECTION (SCOR), PIN AMP (PAMP), AND HORIZONTAL TRAPEZOID (HTRP) ADJUSTMENTS

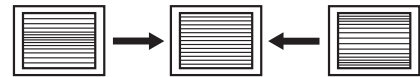
1. Input a crosshatch signal.
2. Activate the Service Adjustment Mode.
3. Select VLIN, SCOR, PAMP, and HTRP with **[1]** and **[4]**.

4. Adjust with **[3]** and **[6]** for the best horizontal size.
5. Press **[MUTING]** then **[ENTER]** to save into the memory.

V LINEARITY (VLIN)



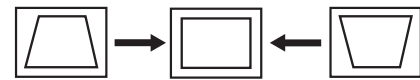
V CORRECTION (SCOR)



PIN AMP (PAMP)



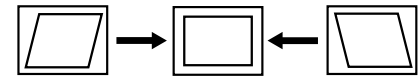
HORIZONTAL TRAPEZOID (HTRP)



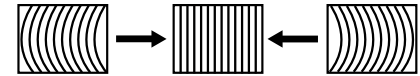
V. ANGLE (VANG), V. BOW (VBOW), UPPER PIN (UPIN) AND LOW PIN (LPIN) ADJUSTMENTS

1. Input a crosshatch signal.
2. Activate the Service Adjustment Mode.
3. Select VANG, VBOW, UPIN, and LPIN with **[1]** and **[4]**.
4. Adjust with **[3]** and **[6]** for the best picture.
5. Press **[MUTING]** then **[ENTER]** to save into the memory.

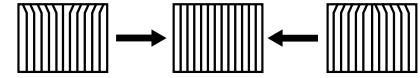
V ANGLE (VANG)



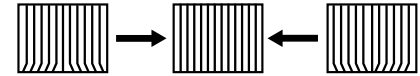
V BOW (VBOW)



UPPER PIN (UPIN)

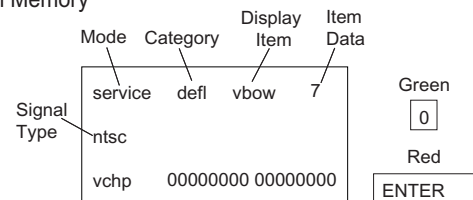


LOW PIN (LPIN)



SERVICE ADJUSTMENT MODE MEMORY

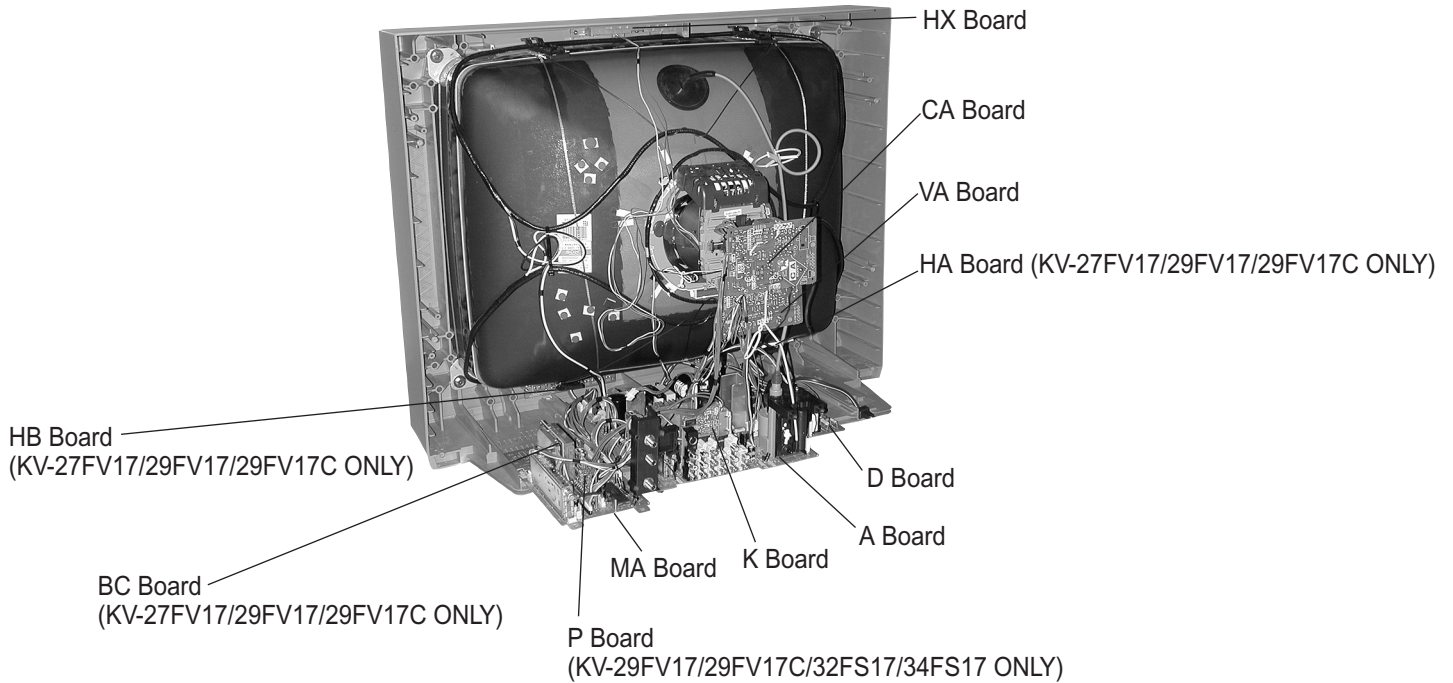
1. After completing all adjustments, press **[0]** then **[ENTER]**.
Read From Memory



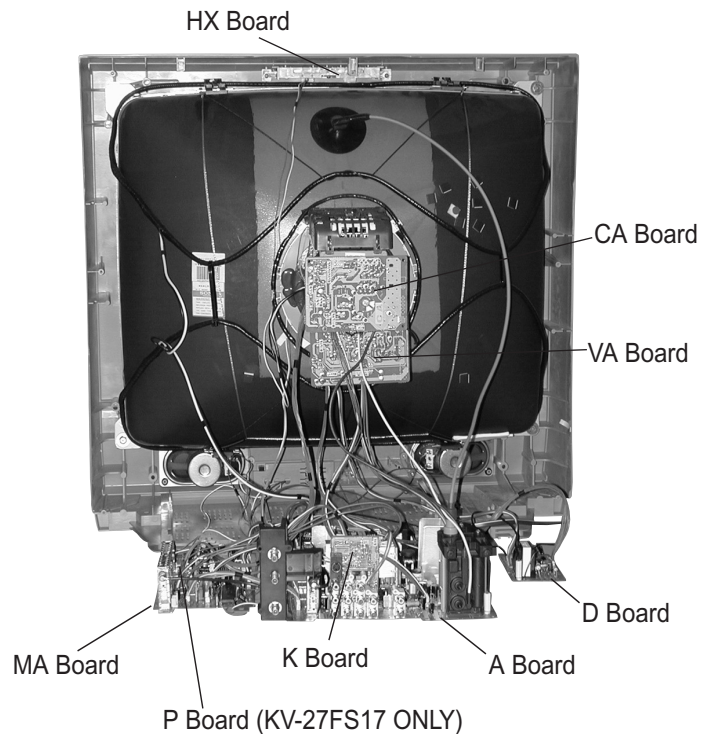
SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

(KV-27FV17/29FV17/29FV17C/32FS13/32FS17/34FS13C/34FS17 ONLY)



(KV-27FS13/27FS17 ONLY)



5-2. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM INFORMATION

All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K=1000, M=1000k

Indication of resistance, which does not have one for rating electrical power, is as follows:


Pitch : 5mm


Rating electrical power : $\frac{1}{4}$ W

$\frac{1}{4}$ W in resistance, $\frac{1}{10}$ W and $\frac{1}{8}$ W in chip resistance.

 : nonflammable resistor.

 : fusible resistor.

 : internal component.

 : panel designation and adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.


S : Measurement impossibility.



 : B+line.

 : B-line. (Actual measured value may be different).



 : signal path. (RF)

Circled numbers are waveform references.

The components identified by  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.


When replacing components identified by , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved. (Refer to Safety Related Adjustments on Page 14.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced ()	Adjustment ()
DY, T505, CRT, IC501 C507, C520, C505, C509, C515, T504, T503, C551, L510, C546, C537, C547, D517, D518, D519, R560, R561, R562, R563, R565, R566, R567, R525.....A Board IC301.....MA Board	HV HOLD-DOWN R564

REFERENCE INFORMATION

RESISTOR

: RN METAL FILM
: RC SOLID
: FRPD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
:  ADJUSTMENT RESISTOR


COIL


: LF-8L MICRO INDUCTOR


CAPACITOR

: TATANTALUM
: PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

The components identified by shading and  symbol are critical for safety. Replace only with part number specified.

The symbol  indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

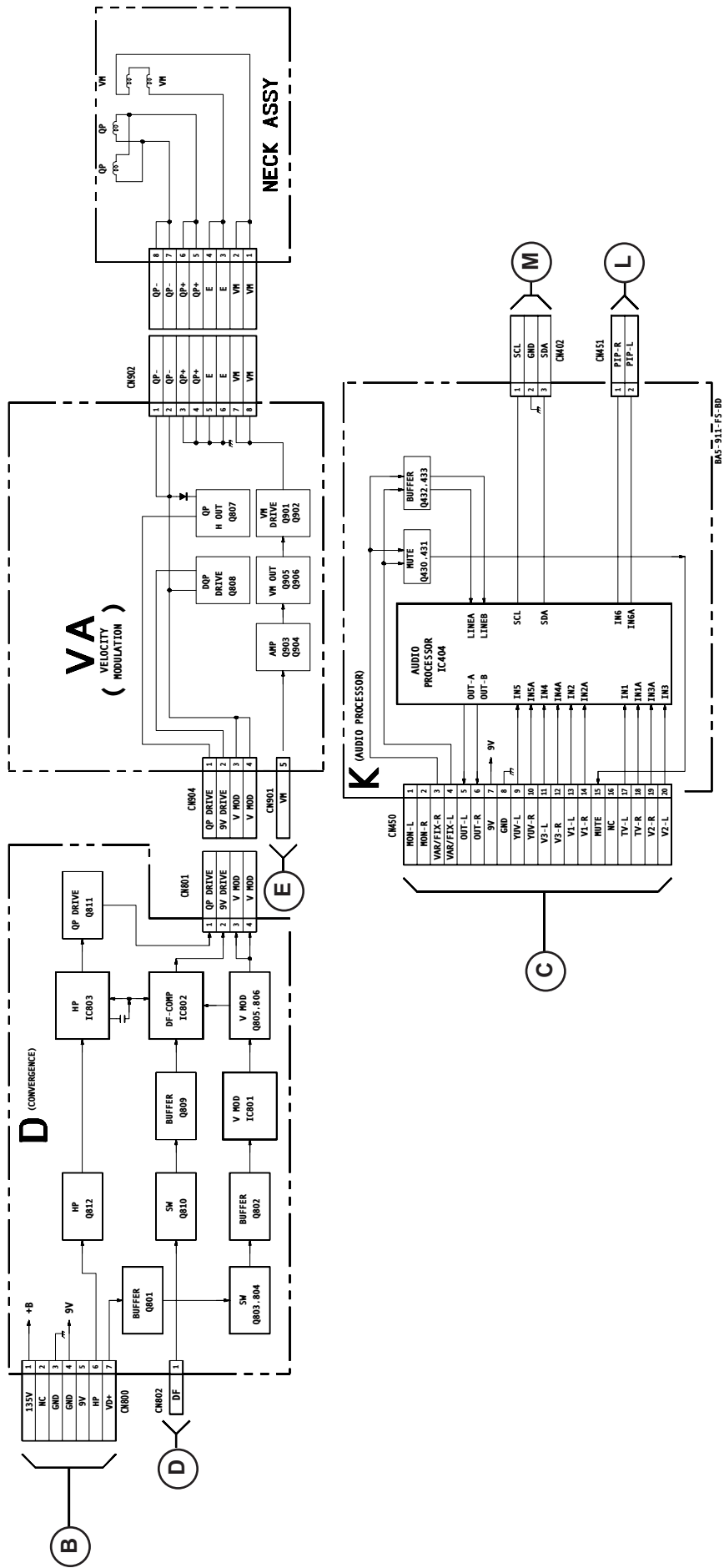
Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole  indique une fusible à action rapide. Doit être remplacé par une fusible de même valeur, comme marqué.

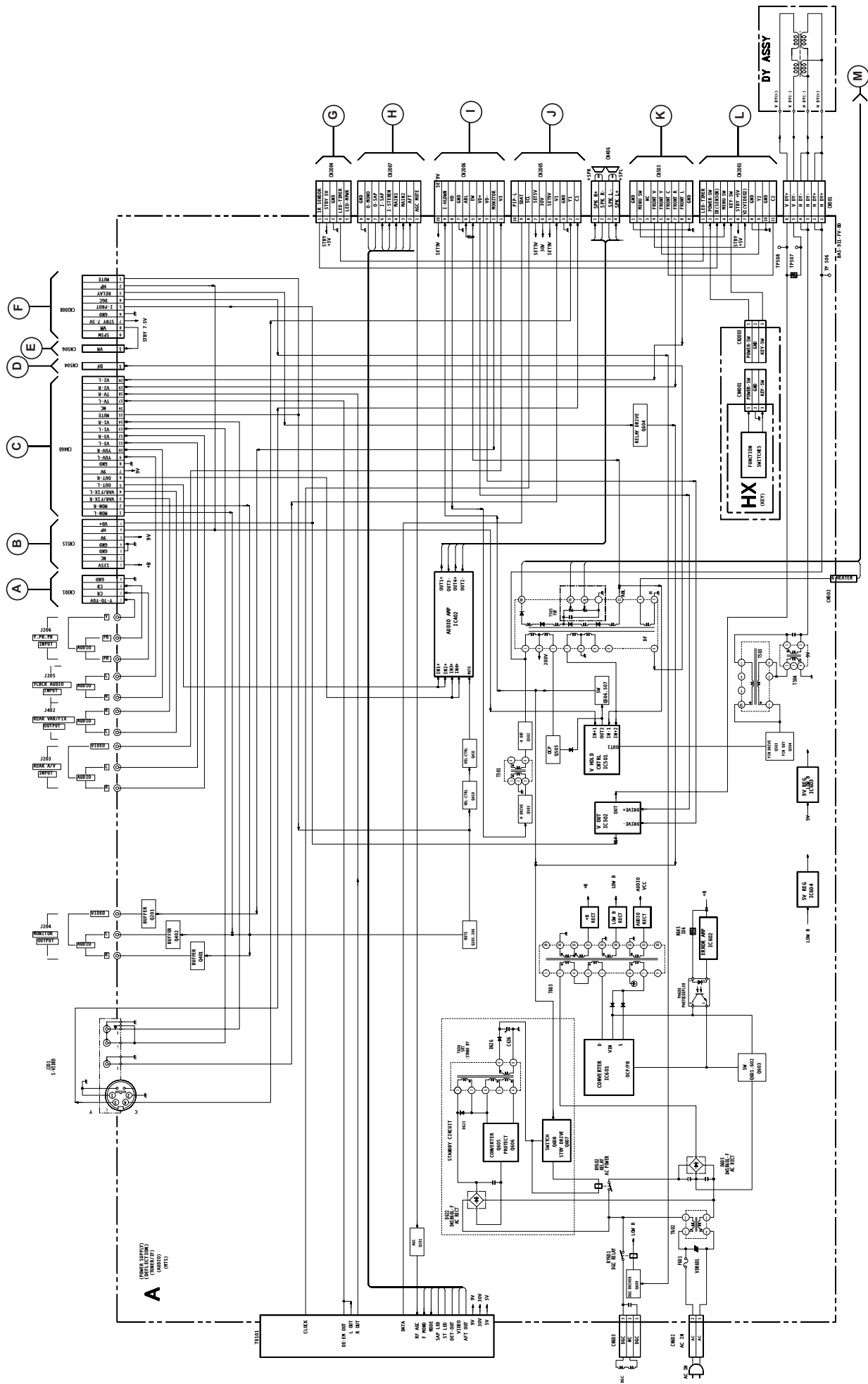
KV-27FS13/ 27FS17/ 27FV17/ 29FV17/ 29FV17C/ 32FS13/ 32FS17/ 34FS13C/ 34FS17

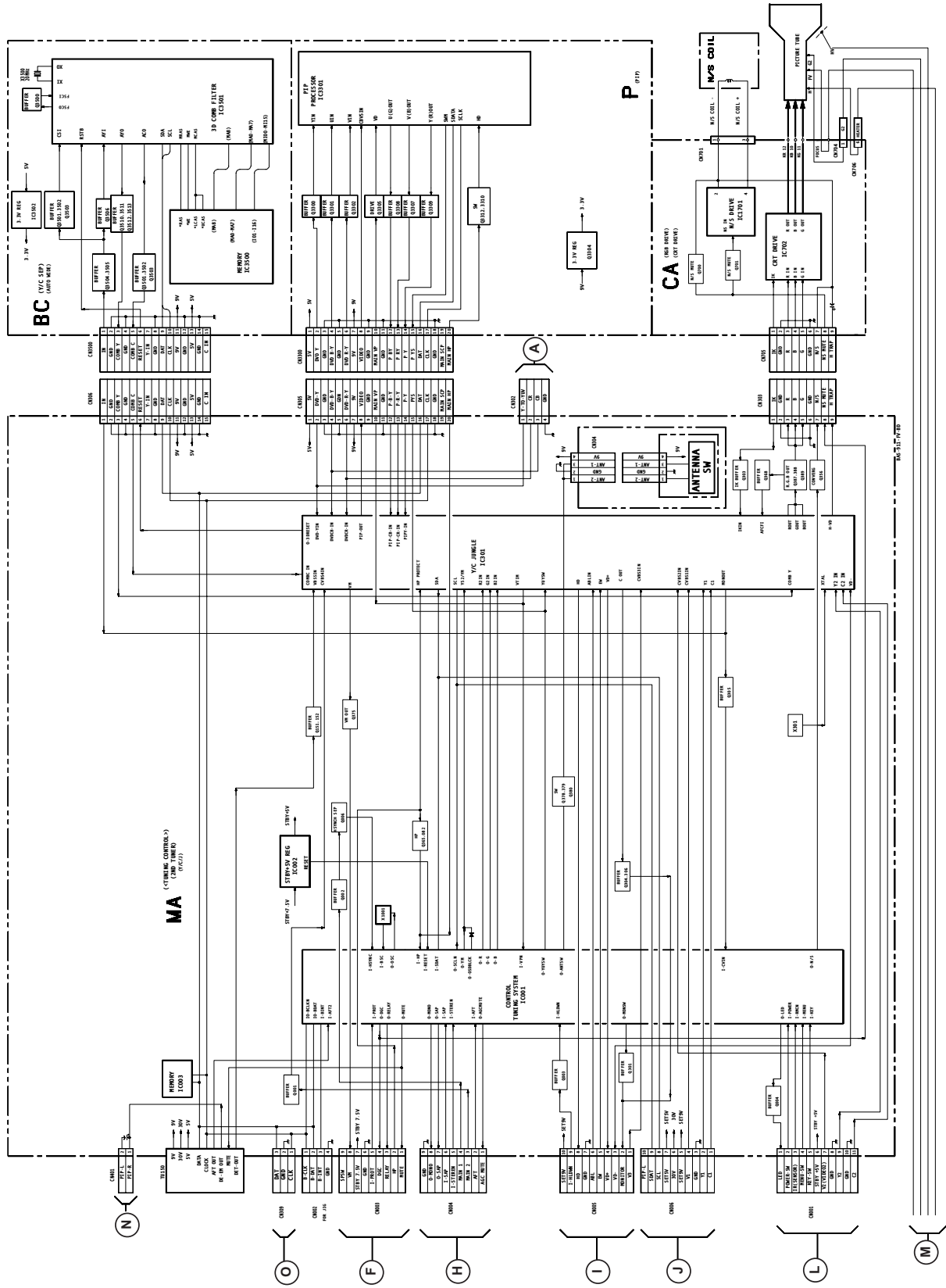


BLOCK DIAGRAM (2 OF 6) (KV-27FS13/27FS17/32FS13/34FS13C/34FS17 ONLY)



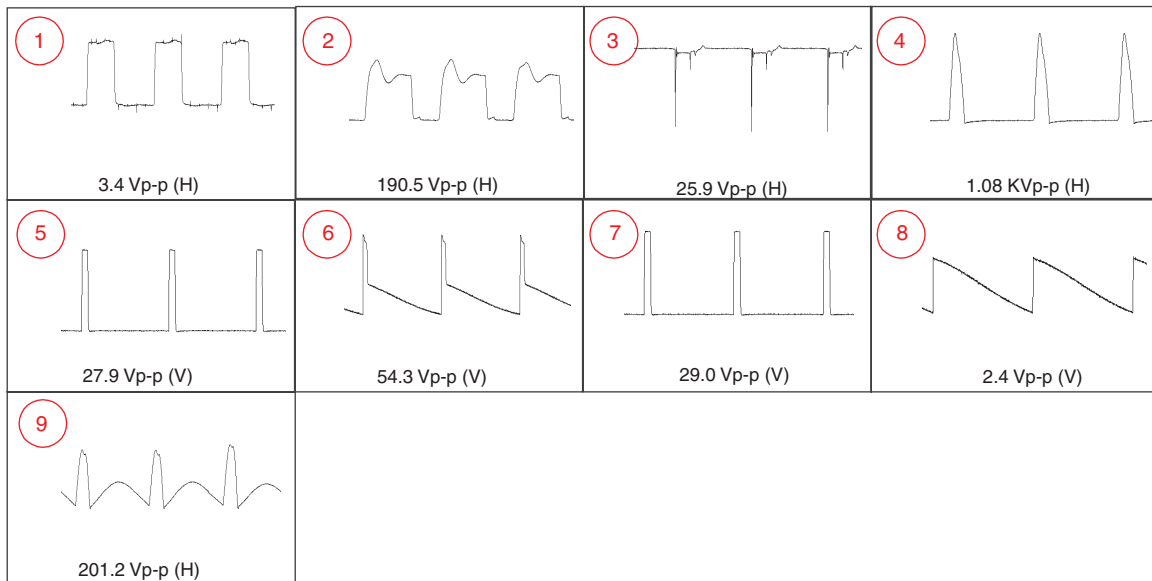








A BOARD WAVEFORMS



A BOARD IC VOLTAGE LIST

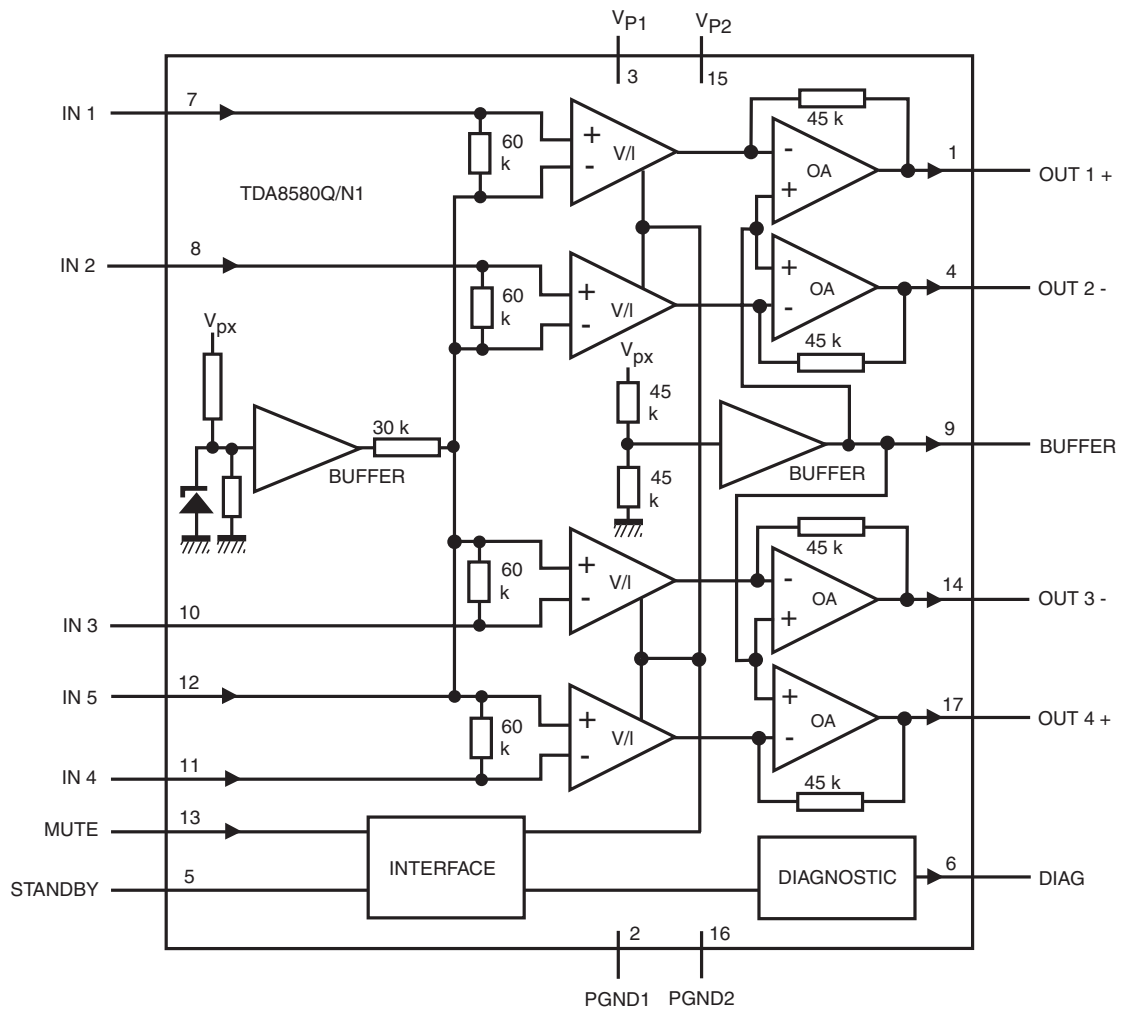
IC402		14	6.8	IC502		4	-23.8	IC604		2	30.7	15	N/C
PIN	VOLT	15	14.1	PIN	VOLT	5	-32.7	PIN	VOLT	3	5.1	16	4.5
1	6.8	16	GND	1	2.1	IC602		1	13.3	4	4.9	17	4.7
2	GND	17	6.8	2	14.0	PIN	VOLT	2	5.0	5	4.9	18	4.4
3	14.1	IC501		3	-12.6	1	135.9	3	GND	6	GND	19	5.0
4	6.8	PIN	VOLT	4	-13.9	2	123.4	IC2001		7	N/C	20	5.0
5	4.3	1	0.2	5	0.2	3	GND	PIN	VOLT	8	2.1	21	0.3
6	N/C	2	3.7	6	14.3	IC603		1	5	9	8.9	22	0.0
7	4.1	3	2.5	7	2.1	PIN	VOLT	2	5	10	4.1	23	N/C
8	4.1	4	GND	IC601		I	13.3	3	GND	11	GND	24	0.0
9	6.8	5	9.5	PIN	VOLT	O	8.9	TU101		12	N/C	25	N/C
10	4.1	6	10.1	1	-31.8	G	GND	PIN	VOLT	13	N/C	26	4.5
11	4.1	7	0.1	2	-32.7	4	13.3	1	8.6	14	N/C	27	4.5
12	4.1	8	14.0	3	53.2								
13	5.2												

All Voltages are in V

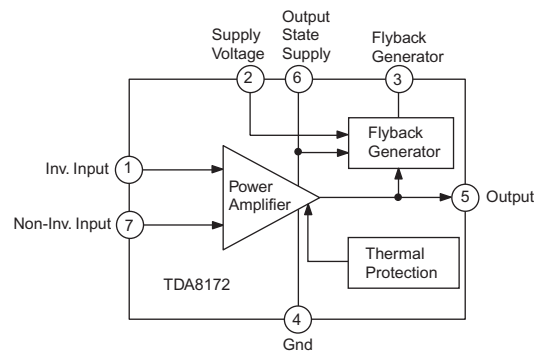
All Voltages are in V

A BOARD IC BLOCK DIAGRAMS

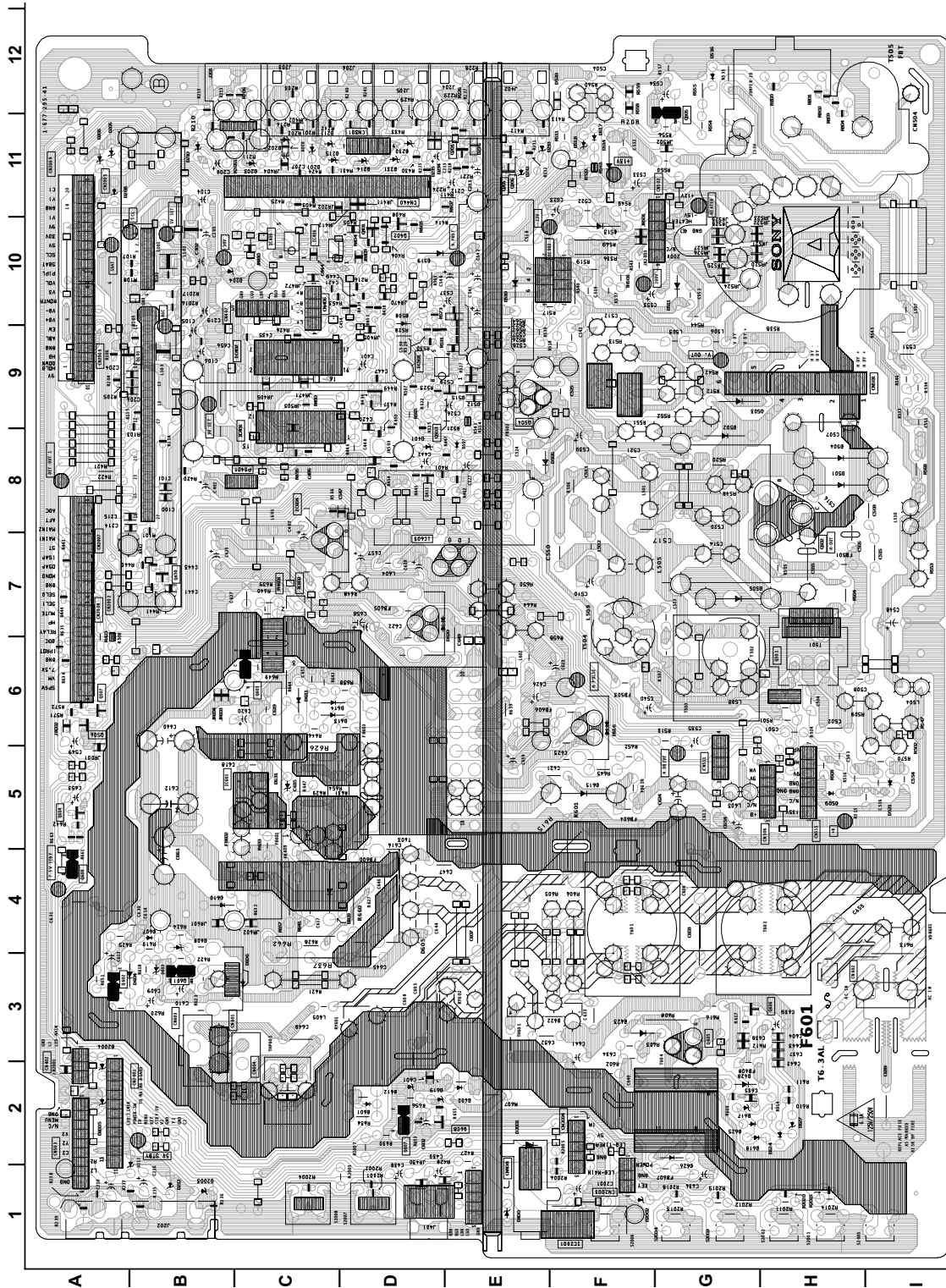
IC402 TDA8580Q/N1



IC502 TDA8172



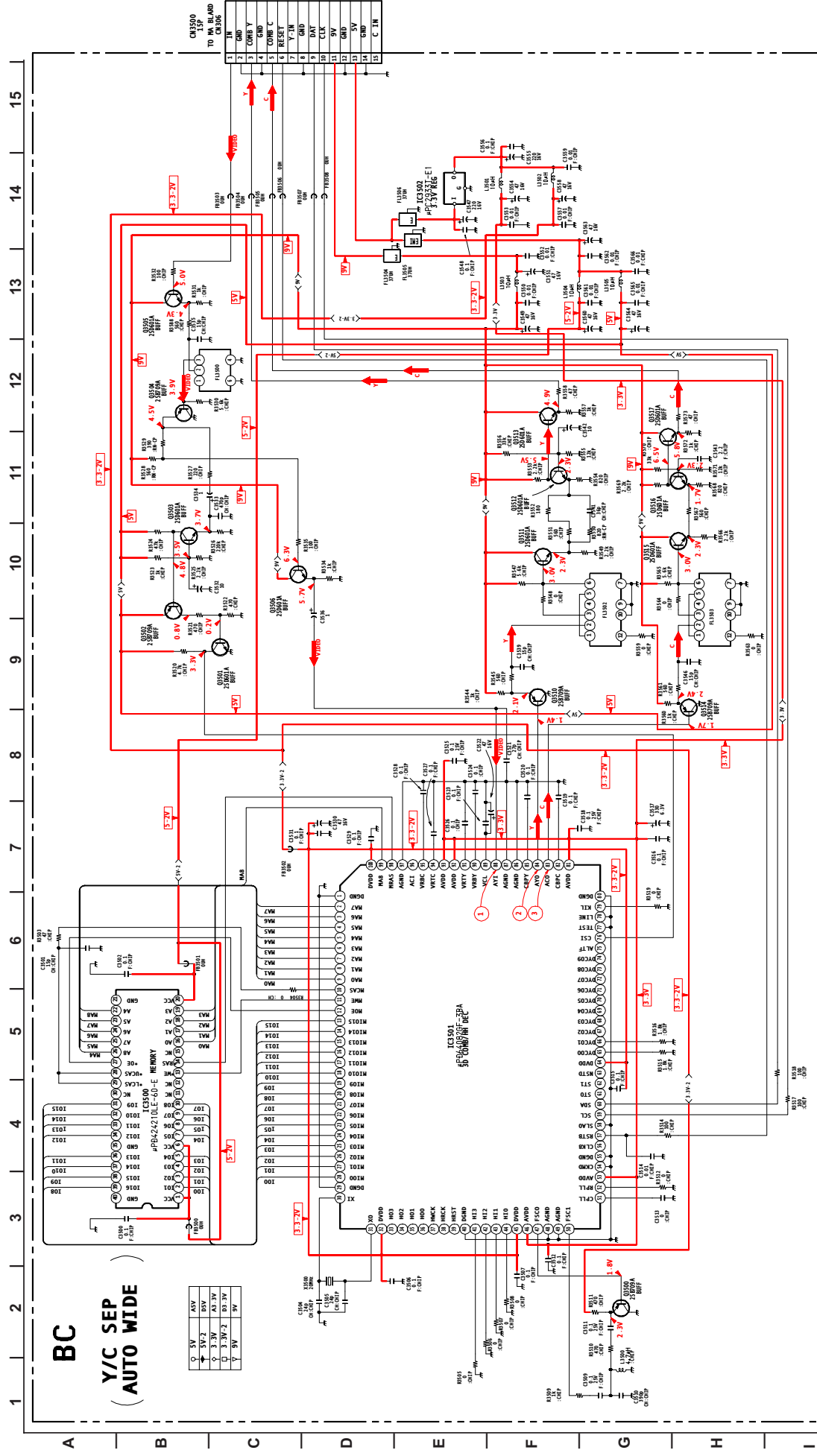
A POWER SUPPLY, DEFLECTION, TUNER IF, AUDIO, MTS



A BOARD LOCATOR LIST

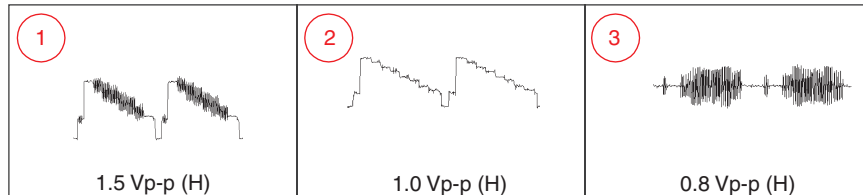
DIODE	D612	D-2
D201	C-11	C-6
D203	C-11	D613
D204	B-10	C-6
D205	A-11	D615
D206	A-11	F-6
D208	A-11	D617
D209	A-11	H-2
D210	C-11	D618
D211	C-11	D619
D212	C-11	D-7
D213	B-1	D622
D214	B-1	F-3
D215	B-1	D623
D216	B-1	G-2
D217	D-11	D624
D218	D-11	G-5
D219	D-11	H-2
D220	D-11	H-2
D221	D-11	G-1
D222	D-11	D626
D223	D-11	H-2
D224	D-11	D627
D225	D-11	H-2
D226	D-11	D628
D227	D-11	H-2
D228	D-11	D629
D229	D-11	H-2
D230	D-11	D630
D231	D-11	H-2
D232	D-11	D631
D233	D-11	H-2
D234	D-11	D632
D235	D-11	H-2
D236	D-11	D633
D237	D-11	H-2
D238	D-11	D634
D239	D-11	H-2
D240	D-11	D635
D241	D-11	H-2
D242	D-11	D636
D243	D-11	H-2
D244	D-11	D637
D245	D-11	H-2
D246	D-11	D638
D247	D-11	H-2
D248	D-11	D639
D249	D-11	H-2
D250	D-11	D640
D251	D-11	H-2
D252	D-11	D641
D253	D-11	H-2
D254	D-11	D642
D255	D-11	H-2
D256	D-11	D643
D257	D-11	H-2
D258	D-11	D644
D259	D-11	H-2
D260	D-11	D645
D261	D-11	H-2
D262	D-11	D646
D263	D-11	H-2
D264	D-11	D647
D265	D-11	H-2
D266	D-11	D648
D267	D-11	H-2
D268	D-11	D649
D269	D-11	H-2
D270	D-11	D650
D271	D-11	H-2
D272	D-11	D651
D273	D-11	H-2
D274	D-11	D652
D275	D-11	H-2
D276	D-11	D653
D277	D-11	H-2
D278	D-11	D654
D279	D-11	H-2
D280	D-11	D655
D281	D-11	H-2
D282	D-11	D656
D283	D-11	H-2
D284	D-11	D657
D285	D-11	H-2
D286	D-11	D658
D287	D-11	H-2
D288	D-11	D659
D289	D-11	H-2
D290	D-11	D660
D291	D-11	H-2
D292	D-11	D661
D293	D-11	H-2
D294	D-11	D662
D295	D-11	H-2
D296	D-11	D663
D297	D-11	H-2
D298	D-11	D664
D299	D-11	H-2
D300	D-11	D665
D301	D-11	H-2
D302	D-11	D666
D303	D-11	H-2
D304	D-11	D667
D305	D-11	H-2
D306	D-11	D668
D307	D-11	H-2
D308	D-11	D669
D309	D-11	H-2
D310	D-11	D670
D311	D-11	H-2
D312	D-11	D671
D313	D-11	H-2
D314	D-11	D672
D315	D-11	H-2
D316	D-11	D673
D317	D-11	H-2
D318	D-11	D674
D319	D-11	H-2
D320	D-11	D675
D321	D-11	H-2
D322	D-11	D676
D323	D-11	H-2
D324	D-11	D677
D325	D-11	H-2
D326	D-11	D678
D327	D-11	H-2
D328	D-11	D679
D329	D-11	H-2
D330	D-11	D680
D331	D-11	H-2
D332	D-11	D681
D333	D-11	H-2
D334	D-11	D682
D335	D-11	H-2
D336	D-11	D683
D337	D-11	H-2
D338	D-11	D684
D339	D-11	H-2
D340	D-11	D685
D341	D-11	H-2
D342	D-11	D686
D343	D-11	H-2
D344	D-11	D687
D345	D-11	H-2
D346	D-11	D688
D347	D-11	H-2
D348	D-11	D689
D349	D-11	H-2
D350	D-11	D690
D351	D-11	H-2
D352	D-11	D691
D353	D-11	H-2
D354	D-11	D692
D355	D-11	H-2
D356	D-11	D693
D357	D-11	H-2
D358	D-11	D694
D359	D-11	H-2
D360	D-11	D695
D361	D-11	H-2
D362	D-11	D696
D363	D-11	H-2
D364	D-11	D697
D365	D-11	H-2
D366	D-11	D698
D367	D-11	H-2
D368	D-11	D699
D369	D-11	H-2
D370	D-11	D700
D371	D-11	H-2
D372	D-11	D701
D373	D-11	H-2
D374	D-11	D702
D375	D-11	H-2
D376	D-11	D703
D377	D-11	H-2
D378	D-11	D704
D379	D-11	H-2
D380	D-11	D705
D381	D-11	H-2
D382	D-11	D706
D383	D-11	H-2
D384	D-11	D707
D385	D-11	H-2
D386	D-11	D708
D387	D-11	H-2
D388	D-11	D709
D389	D-11	H-2
D390	D-11	D710
D391	D-11	H-2
D392	D-11	D711
D393	D-11	H-2
D394	D-11	D712
D395	D-11	H-2
D396	D-11	D713
D397	D-11	H-2
D398	D-11	D714
D399	D-11	H-2
D400	D-11	D715
D401	D-11	H-2
D402	D-11	D716
D403	D-11	H-2
D404	D-11	D717
D405	D-11	H-2
D406	D-11	D718
D407	D-11	H-2
D408	D-11	D719
D409	D-11	H-2
D410	D-11	D720
D411	D-11	H-2
D412	D-11	D721
D413	D-11	H-2
D414	D-11	D722
D415	D-11	H-2
D416	D-11	D723
D417	D-11	H-2
D418	D-11	D724
D419	D-11	H-2
D420	D-11	D725
D421	D-11	H-2
D422	D-11	D726
D423	D-11	H-2
D424	D-11	D727
D425	D-11	H-2
D426	D-11	D728
D427	D-11	H-2
D428	D-11	D729
D429	D-11	H-2
D430	D-11	D730
D431	D-11	H-2
D432	D-11	D731
D433	D-11	H-2
D434	D-11	D732
D435	D-11	H-2
D436	D-11	D733
D437	D-11	H-2
D438	D-11	D734
D439	D-11	H-2
D440	D-11	D735
D441	D-11	H-2
D442	D-11	D736
D443	D-11	H-2
D444	D-11	D737
D445	D-11	H-2
D446	D-11	D738
D447	D-11	H-2
D448	D-11	D739
D449	D-11	H-2
D450	D-11	D740
D451	D-11	H-2
D452	D-11	D741
D453	D-11	H-2
D454	D-11	D742
D455	D-11	H-2
D456	D-11	D743
D457	D-11	H-2
D458	D-11	D744
D459	D-11	H-2
D460	D-11	D745
D461	D-11	H-2
D462	D-11	D746
D463	D-11	H-2
D464	D-11	D747
D465	D-11	H-2
D466	D-11	D748
D467	D-11	H-2
D468	D-11	D749
D469	D-11	H-2
D470	D-11	D750
D471	D-11	H-2
D472	D-11	D751
D473	D-11	H-2
D474	D-11	D752
D475	D-11	H-2
D476	D-11	D753
D477	D-11	H-2
D478	D-11	D754
D479	D-11	H-2
D480	D-11	D755
D481	D-11	H-2
D482	D-11	D756
D483	D-11	H-2
D484	D-11	D757
D485	D-11	H-2
D486	D-11	D758
D487	D-11	H-2
D488	D-11	D759
D489	D-11	H-2
D490	D-11	D760
D491	D-11	H-2
D492	D-11	D761
D493	D-11	H-2
D494	D-11	D762
D495	D-11	H-2
D496	D-11	D763
D497	D-11	H-2
D498	D-11	D764
D499	D-11	H-2
D500	D-11	D765
D501	D-11	H-2
D502	D-11	D766
D503	D-11	H-2
D504	D-11	D767
D505	D-11	H-2
D506	D-11	D768
D507	D-11	H-2
D508	D-11	D769
D509	D-11	H-2
D510	D-11	D770
D511	D-11	H-2
D512	D-11	D771
D513	D-11	H-2
D514	D-11	D772
D515	D-11	H-2
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D527	D-11	H-2
D528	D-11	D779
D529	D-11	H-2
D530	D-11	D780
D531	D-11	H-2
D532	D-11	D781
D533	D-11	H-2
D534	D-11	D782
D535	D-11	H-2
D536	D-11	D783
D537	D-11	H-2
D538	D-11	D784
D539	D-11	H-2
D540	D-11	D785
D541	D-11	H-2
D542	D-11	D786
D543	D-11	H-2
D544	D-11	D787
D545	D-11	H-2
D546	D-11	D788
D547	D-11	H-2
D548	D-11	D789
D549	D-11	H-2
D550	D-11	D790
D551	D-11	H-2
D552	D-11	D791
D553	D-11	H-2
D554	D-11	D792
D555	D-11	H-2
D556	D-11	D793
D557	D-11	H-2
D558	D-11	D794
D559	D-11	H-2
D560	D-11	D795
D561	D-11	H-2
D562	D-11	D796
D563	D-11	H-2
D564	D-11	D797
D565	D-11	H-2
D566	D-11	D798
D567	D-11	H-2
D568	D-11	D799
D569	D-11	H-2
D570	D-11	D800
D571	D-11	H-2
D572	D-11	D801
D573	D-11	H-2
D574	D-11	D802
D575	D-11	H-2
D576	D-11	D803
D577	D-11	H-2
D578	D-11	D804
D579	D-11	H-2
D580	D-11	D805
D581	D-11	H-2
D582	D-11	D806
D583	D-11	H-2
D584	D-11	D807
D585	D-11	H-2
D586	D-11	D808
D587	D-11	H-2
D588	D-11	D809
D589	D-11	H-2
D590	D-11	D810
D591	D-11	H-2
D592	D-11	D811
D593	D-11	H-2
D594	D-11	D812
D595	D-11	H-2
D596	D-11	D813
D597	D-11	H-2
D598	D-11	D814
D599	D-11	H-2
D600	D-11	D815
D601	D-11	H-2
D602	D-11	D816
D603	D-11	H-2
D604	D-11	D817
D605	D-11	H-2
D606	D-11	D818
D607	D-11	H-2
D608	D-11	D819
D609	D-11	H-2
D610	D-11	D820
D611	D-11	H-2

BC BOARD SCHEMATIC DIAGRAM



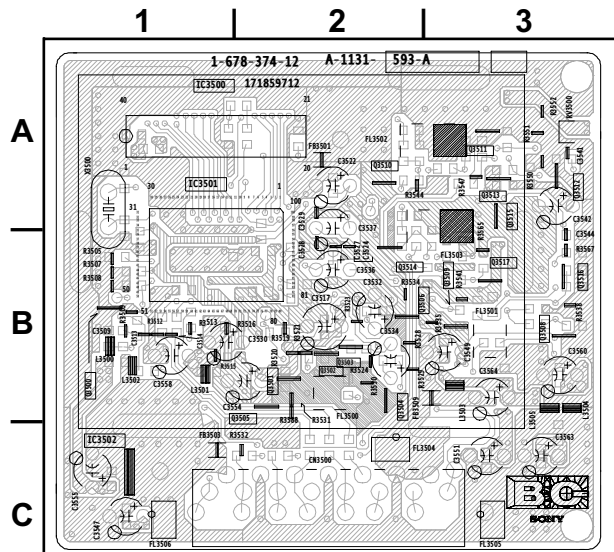
BC BOARD IC VOLTAGE LIST

IC3500		29	1.1	17	1.1	47	1.8	77	GND
PIN	VOLT	30	N/C	18	1.1	48	GND	78	GND
1	5.0	31	0.3	19	1.0	49	GND	79	0.0
2	0.8	32	1.1	20	0.1	50	1.5	80	GND
3	0.9	33	1.1	21	1.1	51	0.0	81	3.3
4	0.9	34	1.1	22	1.4	52	0.0	82	1.1
5	0.9	35	N/C	23	0.7	53	3.3	83	1.7
6	5.0	36	1.1	24	0.8	54	GND	84	1.4
7	0.8	37	1.1	25	0.9	55	GND	85	1.1
8	0.7	38	1.0	26	0.9	56	N/C	86	GND
9	1.4	39	0.1	27	0.9	57	3.3	87	GND
10	1.1	40	N/C	28	0.8	58	GND	88	0.9
11	N/C	IC3501		29	GND	59	4.8	89	0.9
12	N/C	PIN	VOLT	30	1.5	60	4.8	90	1.0
13	2.9	1	GND	31	1.6	61	N/C	91	1.6
14	0.5	2	1.5	32	3.3	62	N/C	92	3.3
15	N/C	3	1.5	33	N/C	63	N/C	93	3.3
16	1.5	4	1.5	34	N/C	64	3.3	94	3.3
17	1.5	5	1.5	35	N/C	65	0.7	95	2.0
18	1.5	6	1.5	36	N/C	66	1.5	96	N/C
19	1.5	7	1.5	37	N/C	67	N/C	97	GND
20	5.0	8	1.5	38	N/C	68	N/C	98	0.5
21	N/C	9	1.5	39	N/C	69	N/C	99	1.6
22	1.6	10	1.0	40	GND	70	N/C	100	3.3
23	1.5	11	2.9	41	0.0	71	N/C	IC3502	
24	1.5	12	2.4	42	0.0	72	N/C	PIN	VOLT
25	1.5	13	0.3	43	0.0	73	N/C	G	GND
26	1.5	14	1.1	44	0.0	74	N/C	I	5.0
27	2.4	15	1.1	45	3.3	75	N/C	O	3.3
28	1.1	16	1.1	46	3.3	76	3.3	All Voltages are in V	

BC BOARD WAVEFORMS



COMPONENT SIDE (KV-27FV17/29FV17/29FV17C ONLY)

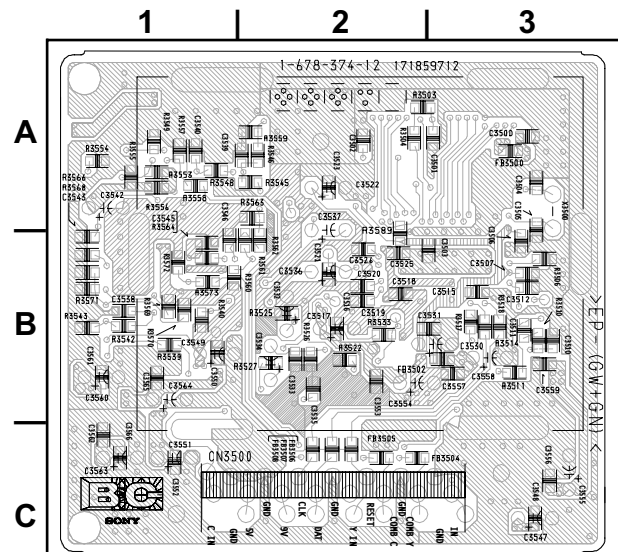


BC BOARD LOCATOR LIST

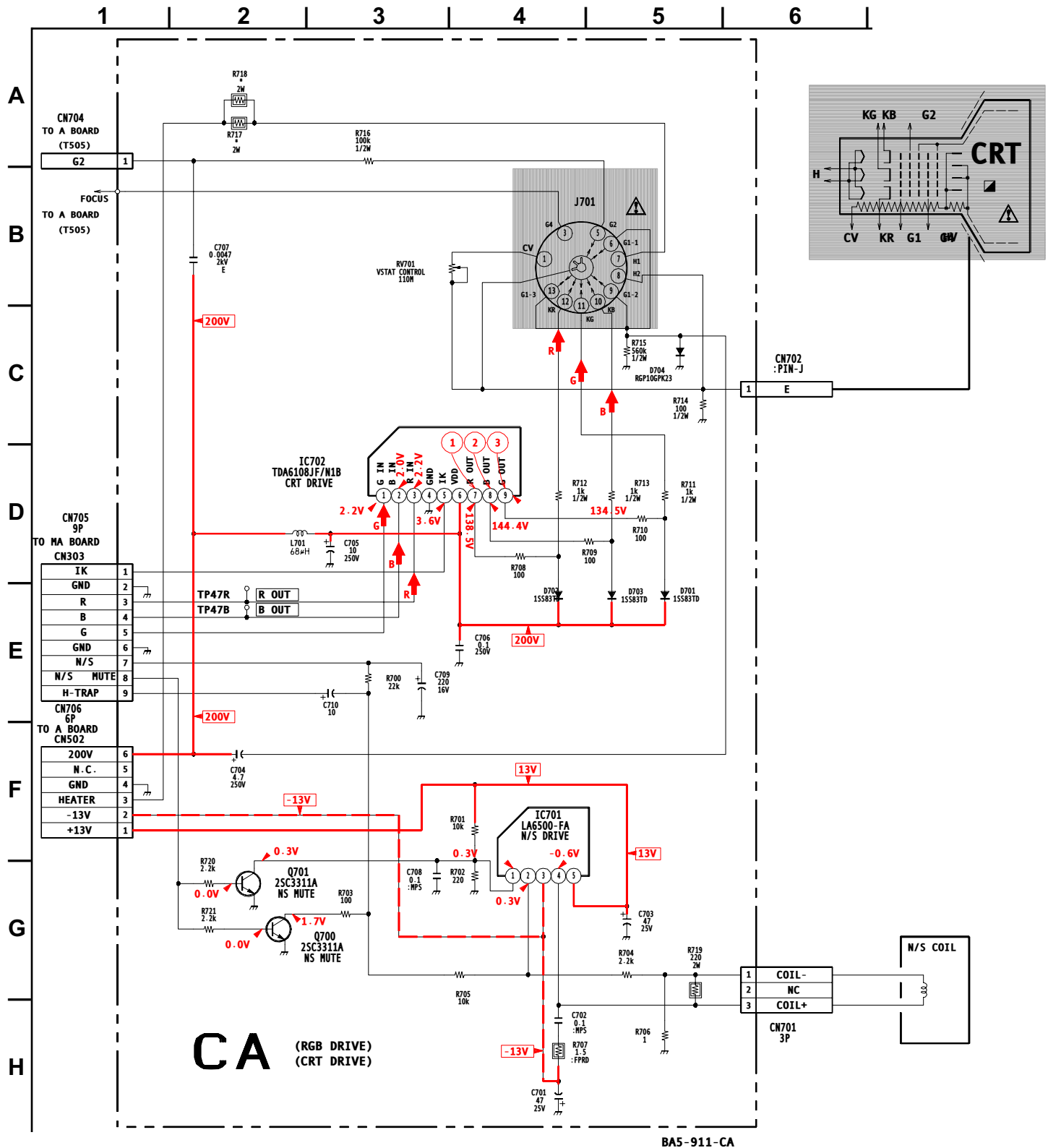
IC		Q3506	B-3
IC3500	A-1	Q3510	A-2
IC3501	A-1	Q3511	A-3
IC3502	C-1	Q3512	A-3
TRANSISTOR		Q3513	A-3
Q3500	B-1	Q3514	B-2
Q3501	B-2	Q3515	A-3
Q3502	B-2	Q3516	B-3
Q3503	B-2	Q3517	B-3
Q3504	B-2		
Q3505	C-2		



CONDUCTOR SIDE (KV-27FV17/29FV17/29FV17C ONLY)



CA BOARD SCHEMATIC DIAGRAM

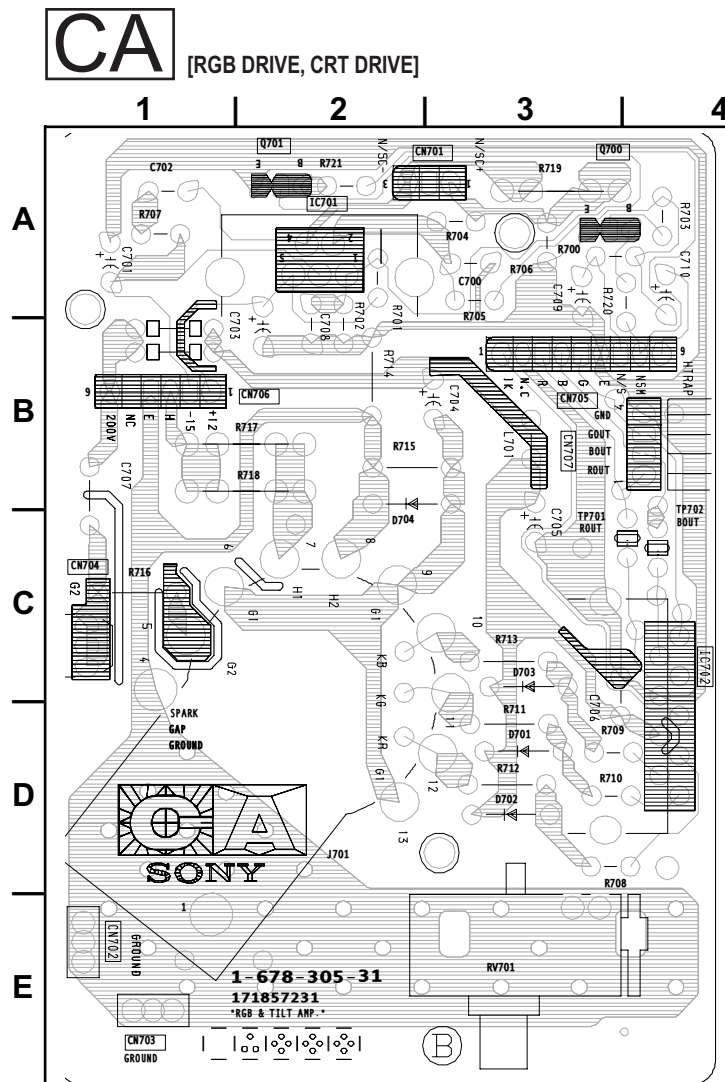
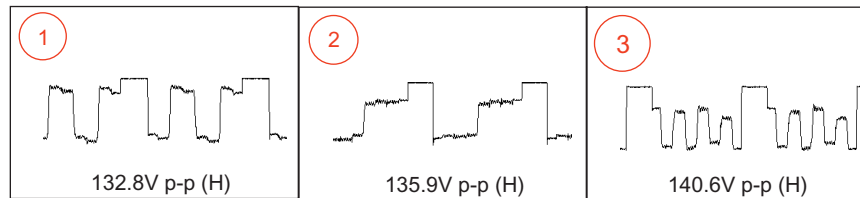


(*) CA BOARD VARIANT MODEL LIST

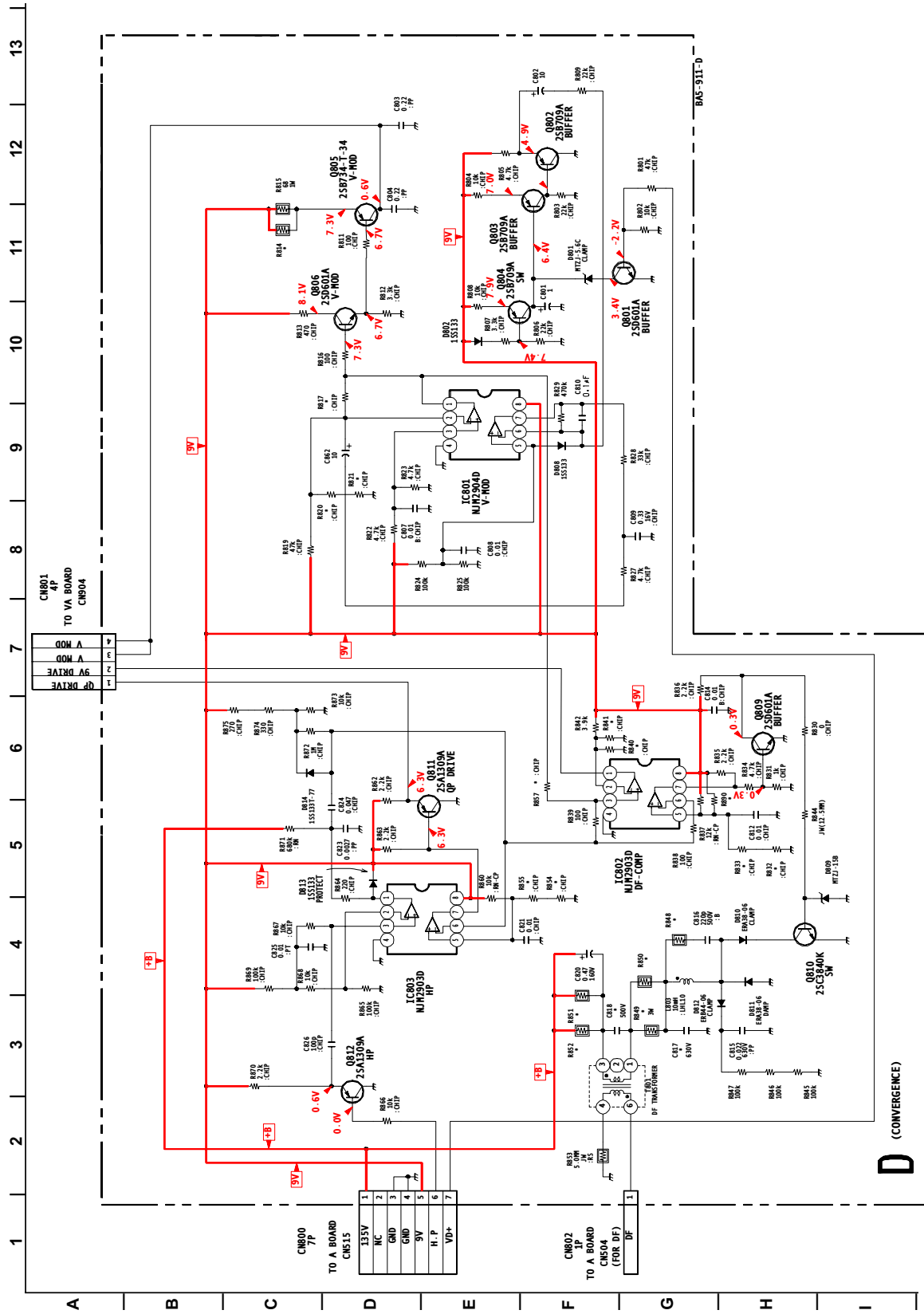
REF NO.	LOC.	KV-27FS13 KV-27FS17 KV-27FV17 KV-29FV17 KV-29FV17C	KV-32FS13 KV-32FS17 KV-34FS13C KV-34FS17
R717	B-2	2.2 2W	#
R718	B-2	#	2.2 2W

NOTE: #= Not Mounted

CA BOARD WAVEFORMS



D BOARD SCHEMATIC DIAGRAM



(*) D BOARD VARIANT MODEL LIST

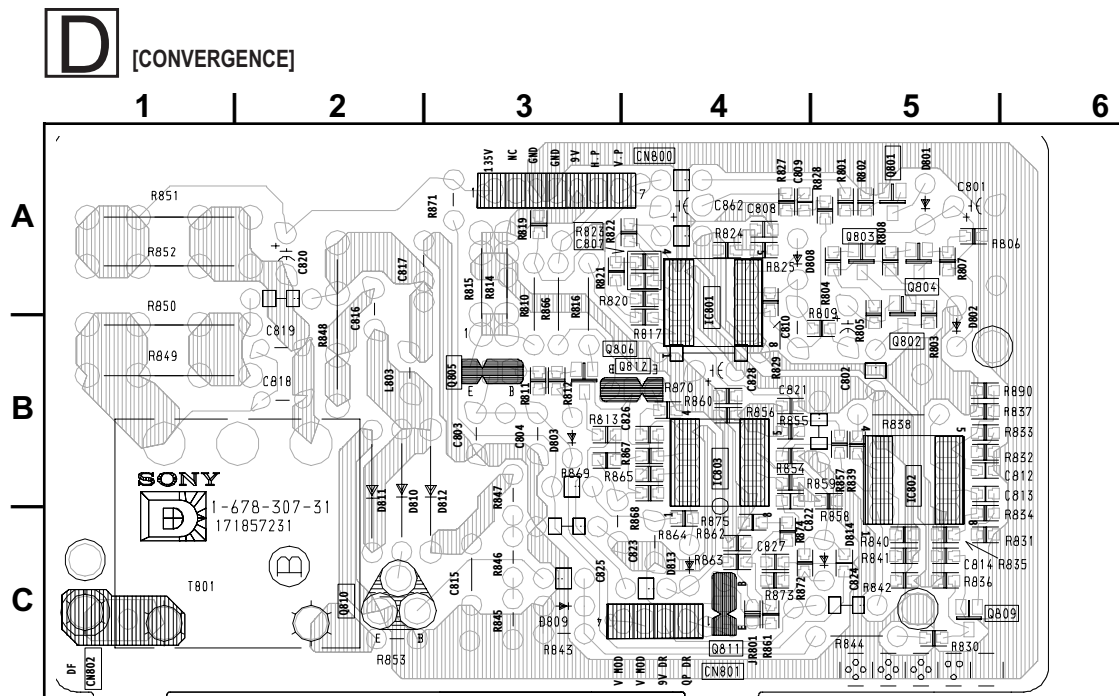
REF NO.	LOC.	KV-27FS13 KV-27FS17 KV-27FV17 KV-29FV17 KV-29FV17C	KV-32FS13 KV-32FS17 KV-34FS13C KV-34FS17
C817	G-3	0.0039 μ F 630V	0.0027 μ F 630V
C818	F-3	0.0015 μ F 500V	680pF 500V
R814	C-11	#	68 1W
R817	D-10	56K	47K
R820	D-8	22K	33K
R821	D-9	15K	3.3K
R832	H-5	5.6K	3.3K
R833	H-5	33K	39K
R840	G-6	68K	#
R841	F-6	6.8K	10K
R848	C-11	15K 1W	2.2K 2W
R849	G-3	3.3K 3W	8.2K 3W
R850	G-4	#	8.2K 3W
R851	F-3	2.2K 2W	6.8K 3W
R852	F-3	#	6.8K 3W
R854	F-5	6.8K	5.6K
R855	F-5	47K	56K
R857	F-6	#	33K
R890	H-5	#	100K

NOTE: # = Not Mounted

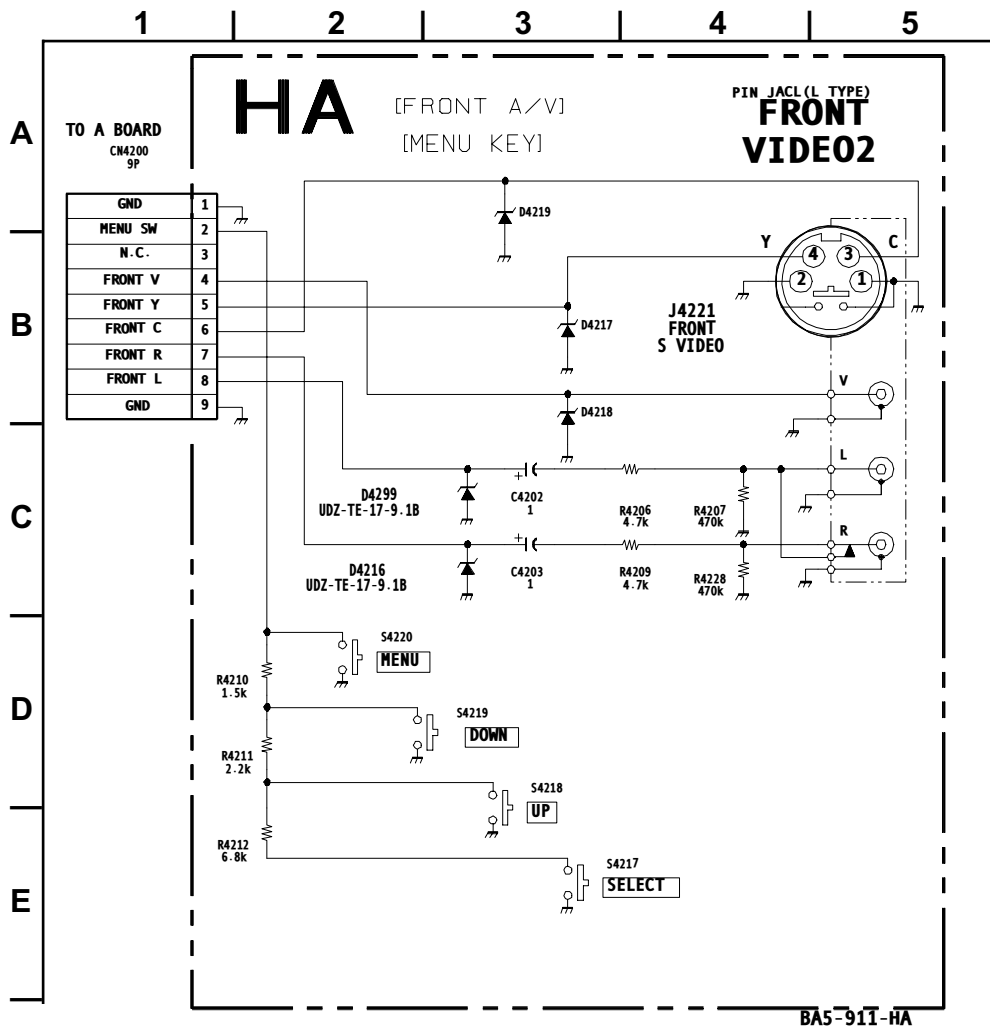
D BOARD IC VOLTAGE LIST

IC801		IC802		IC803	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	7.3	1	6.8	1	2.3
2	4.4	2	5.7	2	4.3
3	4.5	3	0.0	3	4.7
4	GND	4	GND	4	GND
5	4.5	5	6.8	5	7.6
6	4.5	6	6.7	6	6.7
7	4.5	7	3.2	7	6.0
8	9.0	8	9.0	8	9.0

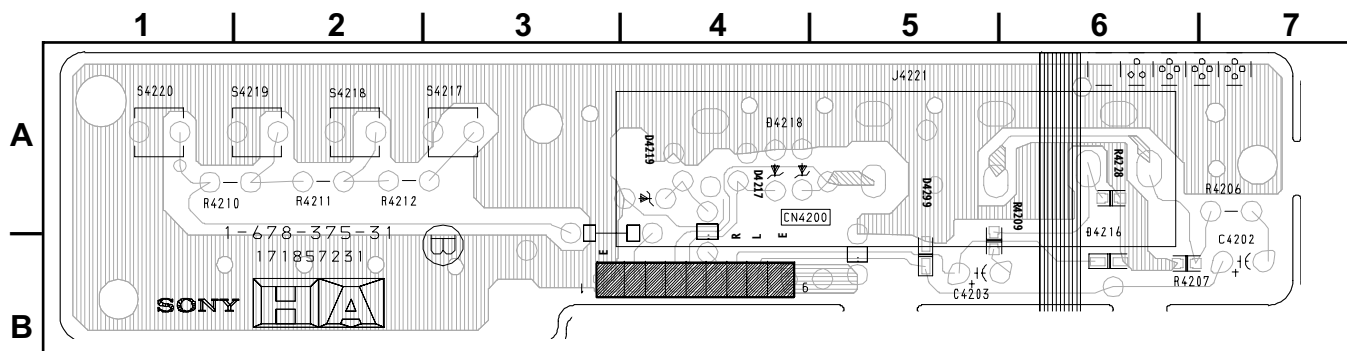
All Voltages are in V



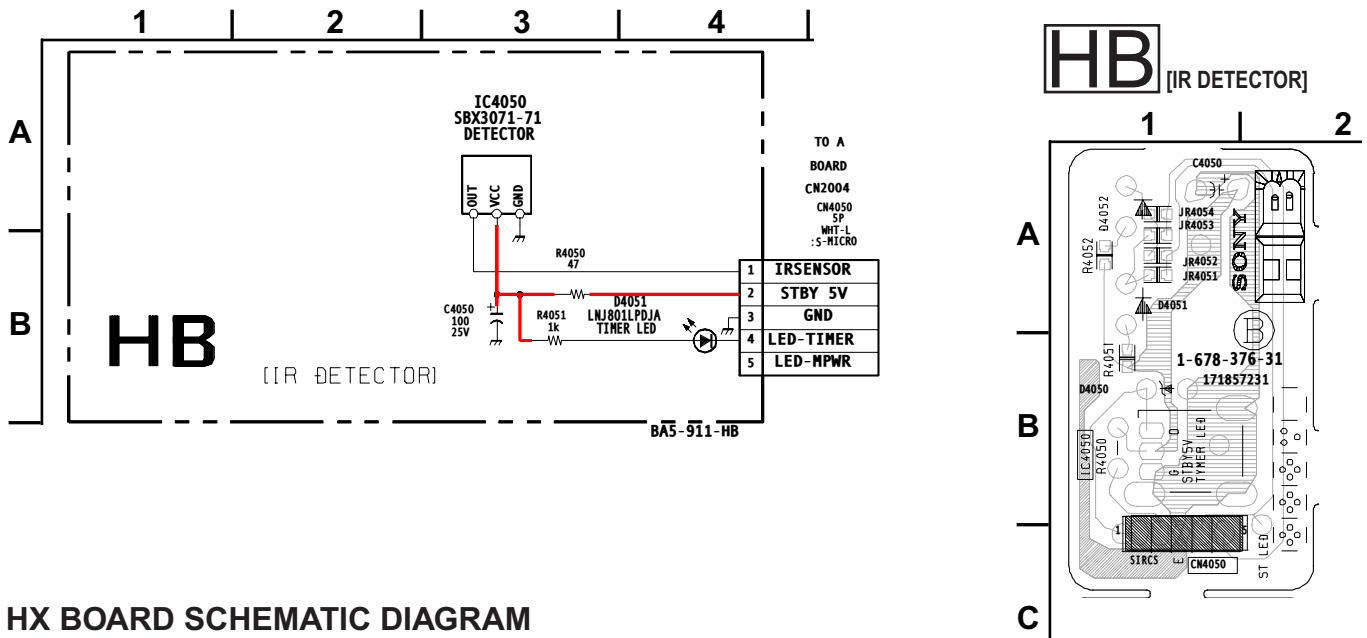
HA BOARD SCHEMATIC DIAGRAM (KV-27FV17/29FV17/29FV17C ONLY)



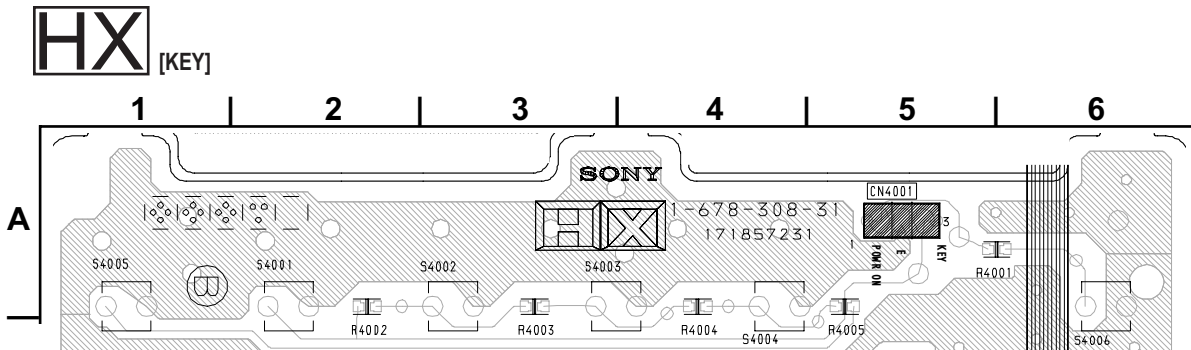
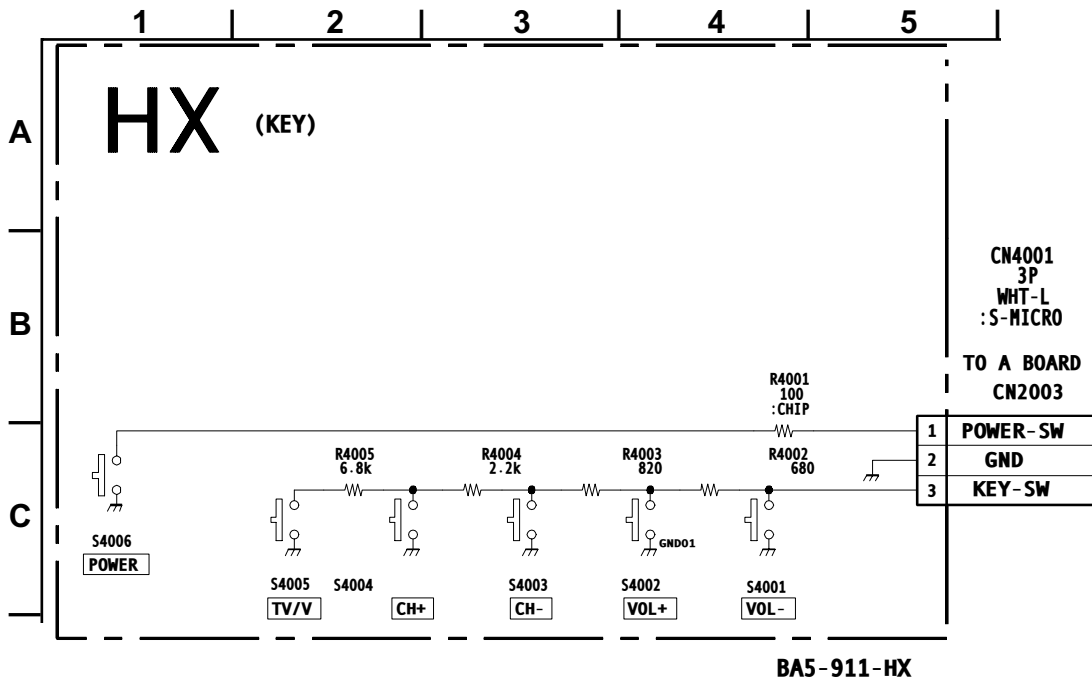
HA [FRONT/AV, MENU KEY]



HB BOARD SCHEMATIC DIAGRAM (KV-27FV17/9FV17/29FV17C ONLY)

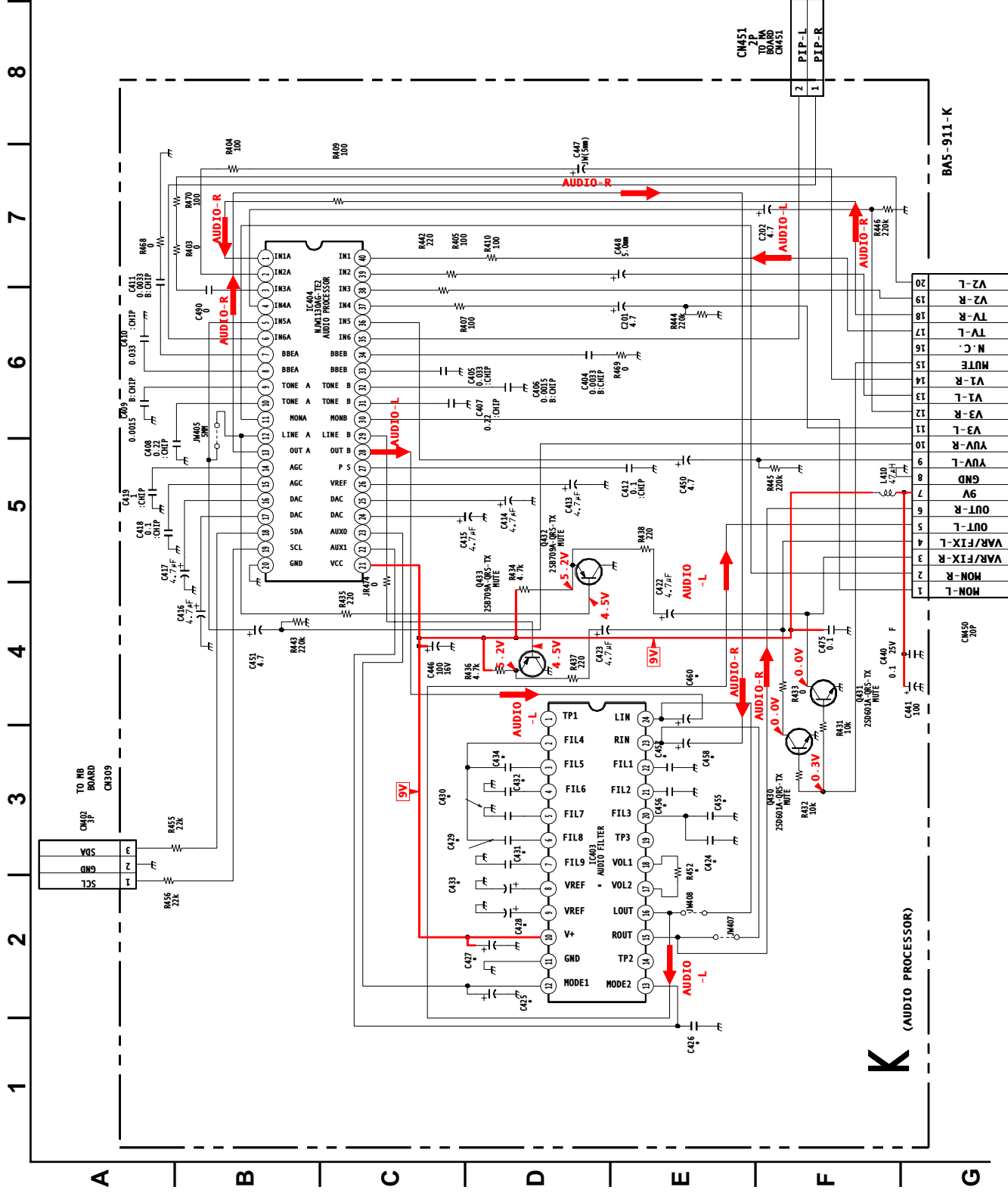


HX BOARD SCHEMATIC DIAGRAM



K BOARD SCHEMATIC DIAGRAM

KV-27FS13/ 27FS17/ 27FV17/ 29FV17C/ 32FS13/ 32FS17/ 29FV17C/ 34FS13C/ 34FS17



K BOARD IC VOLTAGE LIST

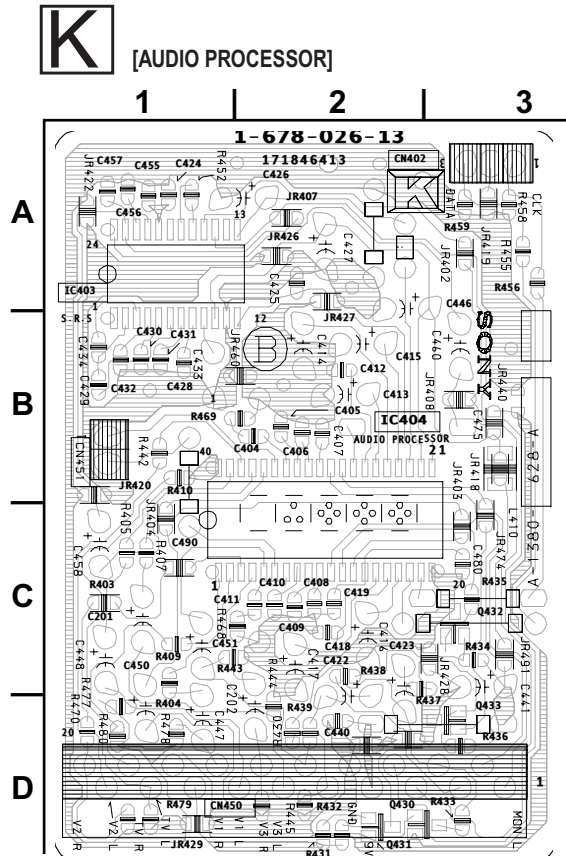
IC403		16	4.5	7	4.7	24	1.3
PIN	VOLT	17	4.5	8	4.5	25	1.3
1	N/C	18	4.5	9	4.5	26	4.4
2	4.5	19	N/C	10	4.5	27	3.9
3	4.5	20	4.5	11	4.5	28	4.5
4	4.5	21	4.5	12	4.5	29	4.5
5	4.5	22	4.5	13	4.5	30	4.5
6	4.5	23	4.5	14	1.0	31	4.5
7	4.5	24	4.5	15	4.5	32	4.5
8	4.5	IC404		16	0.9	33	4.5
9	4.5	PIN	VOLT	17	0.9	34	4.5
10	9.0	1	4.5	18	4.8	35	4.5
11	GND	2	4.5	19	4.9	36	4.5
12	0.0	3	4.5	20	GND	37	4.5
13	0.0	4	4.5	21	8.9	38	4.5
14	N/C	5	4.5	22	0.0	39	4.5
15	4.5	6	4.5	23	0.0	40	4.5

All voltages are in V

(*) K BOARD VARIANT MODEL LIST

REF NO.	LOC.	KV-27FS13 KV-27FS17 KV-32FS13 KV-32FS17 KV-34FS13C KV-34FS17	KV-27FV17 KV-29FV17 KV-29FV17C
C424	E-3	#	0.47μF 25V
C425	D-2	#	1μF 16V
C426	E-2	#	1μF
C427	D-1	#	100μF
C428	D-1	#	100μF
C429	C-3	#	0.0047μF
C430	D-3	#	0.22μF 25V
C431	D-3	#	0.1μF 25V
C432	D-3	#	0.01μF
C433	D-3	#	1μF 16V
C434	D-3	#	0.1μF 25V
C455	E-3	#	0.47μF 25V
C456	E-3	#	0.01μF
C457	E-4	#	0.033μF
C458	E-3	#	4.7μF
C460	E-4	#	4.7μF
IC403	D-2	#	NJM2198-TE2
R452	E-2	#	10K

NOTE: # = Not Mounted

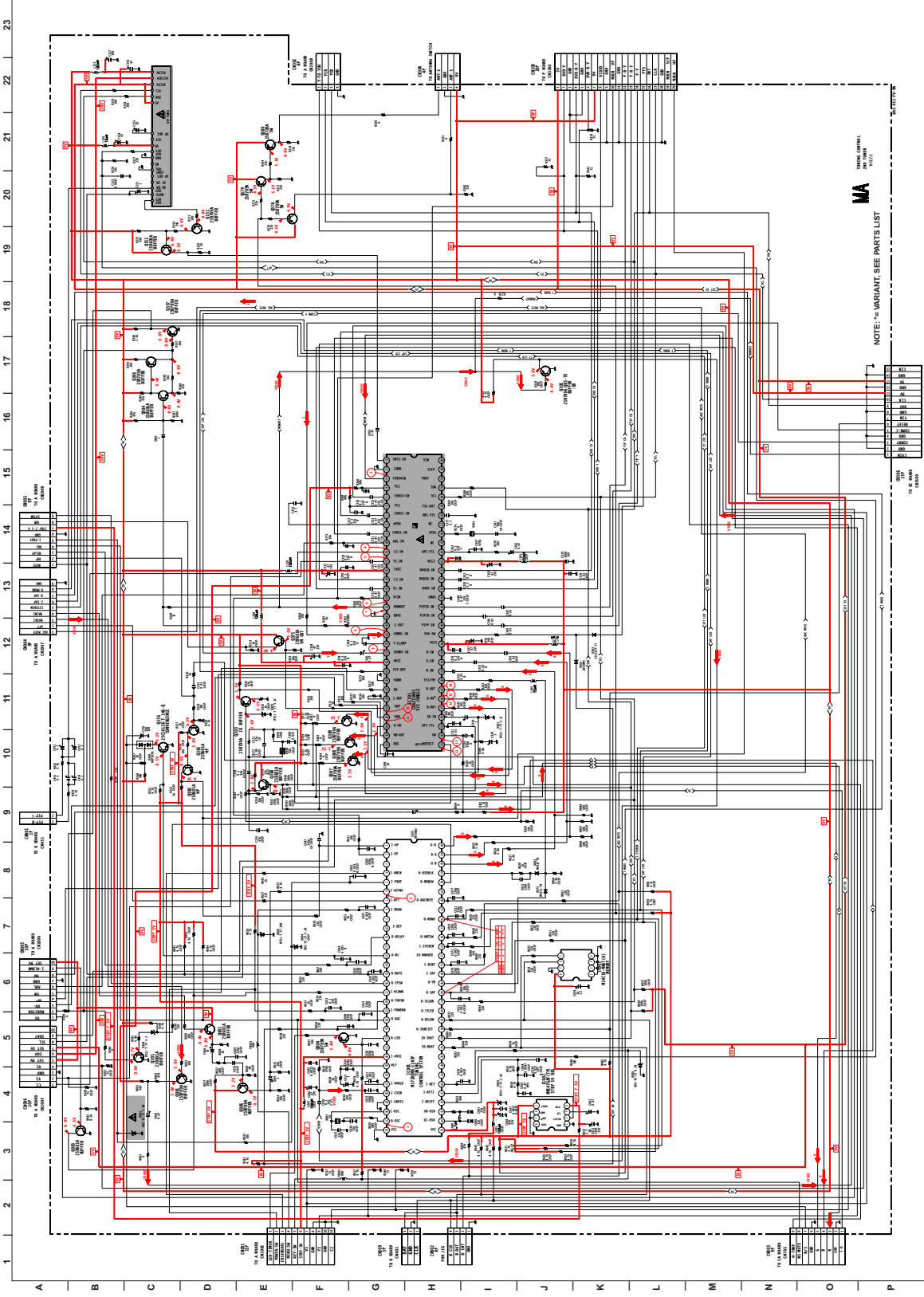




NOTE: * = VARIANT, SEE PARTS LIST

MA BOARD SCHEMATIC DIAGRAM (KV-27FV17/29FV17/29FV17C ONLY)

KV-27FV17/29FV17/29FV17C ONLY

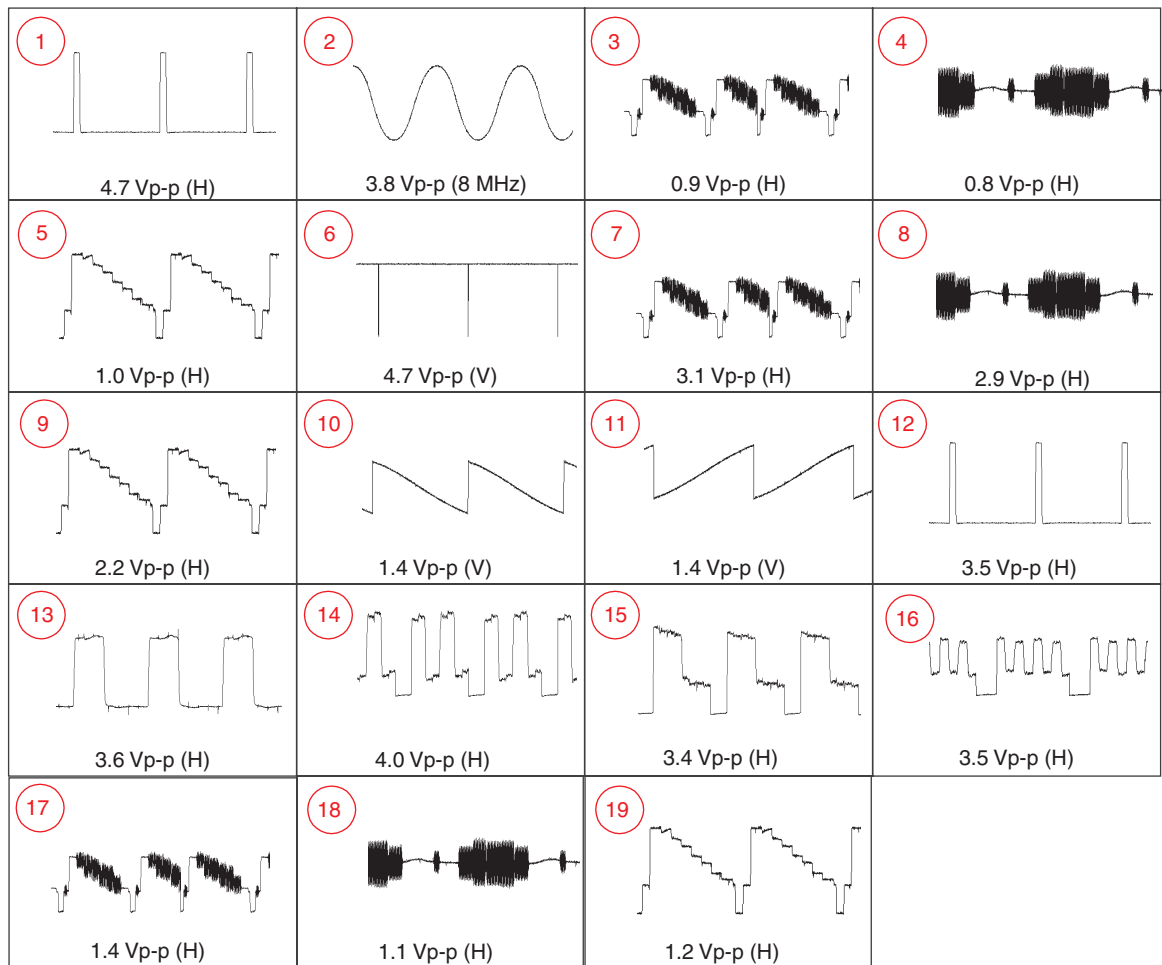


MA
TYPICAL INTERNAL
WIRING
NOTE: - IN VARIANT, SEE PARTS LIST

MA BOARD IC VOLTAGE LIST

IC001		23	N/C	47	4.8	5	5.0	9	N/C	33	3.6	57	N/C	15	5.0	17	GND
PIN	VOLT	24	5.0	48	0.1	6	GND	10	N/C	34	2.3	58	7.2	16	0.0	18	N/C
1	0.5	25	2.1	49	0.1	7	GND	11	0.0	35	2.3	59	4.8	17	2.5	19	N/C
2	4.8	26	N/C	50	5.0	8	N/C	12	N/C	36	3.9	60	4.8	18	3.2	20	2.0
3	N/C	27	0.3	51	5.0	IC003		13	8.9	37	1.9	61	4.8	19	1.9	21	0.3
4	5.0	28	2.2	52	N/C	PIN	VOLT	14	N/C	38	1.9	62	N/C	20	2.4	22	4.0
5	0.0	29	GND	53	1.0	1	GND	15	N/C	39	2.0	63	N/C	TU150		All Voltages are in V	
6	0.0	30	2.2	54	0.1	2	GND	16	4.8	40	0.0	64	N/C	PIN	VOLT		
7	2.4	31	2.3	55	N/C	3	GND	17	4.4	41	4.6	IC302		1	9.0		
8	4.4	32	GND	56	1.0	4	GND	18	GND	42	4.6	PIN	VOLT	2	3.0		
9	N/C	33	5.0	57	N/C	5	4.8	19	N/C	43	4.6	1	5.0	3	5.0		
10	N/C	34	2.5	58	0.1	6	4.8	20	6.4	44	8.9	2	1.4	4	4.8		
11	0.1	35	2.5	59	N/C	7	GND	21	3.9	45	0.2	3	3.2	5	4.8		
12	N/C	36	5.0	60	N/C	8	5.0	22	5.6	46	4.3	4	2.4	6	5.1		
13	0.5	37	3.1	61	0.1	IC301		23	8.9	47	5.2	5	1.9	7	N/C		
14	N/C	38	5.0	62	0.1	PIN	VOLT	24	5.7	48	5.2	6	5.0	8	N/C		
15	0.1	39	N/C	63	0.1	1	5.9	25	GND	49	GND	7	0.0	9	N/C		
16	0.1	40	N/C	64	0.1	2	5.2	26	3.5	50	4.8	8	5.0	10	N/C		
17	0.0	41	N/C	IC002		3	N/C	27	2.4	51	5.2	9	4.9	11	7.5		
18	0.1	42	4.8	PIN	VOLT	4	5.0	28	3.5	52	5.2	10	4.9	12	N/C		
19	4.3	43	4.8	1	GND	5	4.8	29	3.5	53	9.0	11	0.0	13	9.0		
20	0.1	44	N/C	2	5.0	6	5.0	30	5.9	54	5.3	12	0.0	14	5.3		
21	N/C	45	4.8	3	4.9	7	4.8	31	5.5	55	N/C	13	2.5	15	GND		
22	5.0	46	N/C	4	7.2	8	3.4	32	7.6	56	1.7	14	2.1	16	N/C		

MA BOARD WAVEFORMS

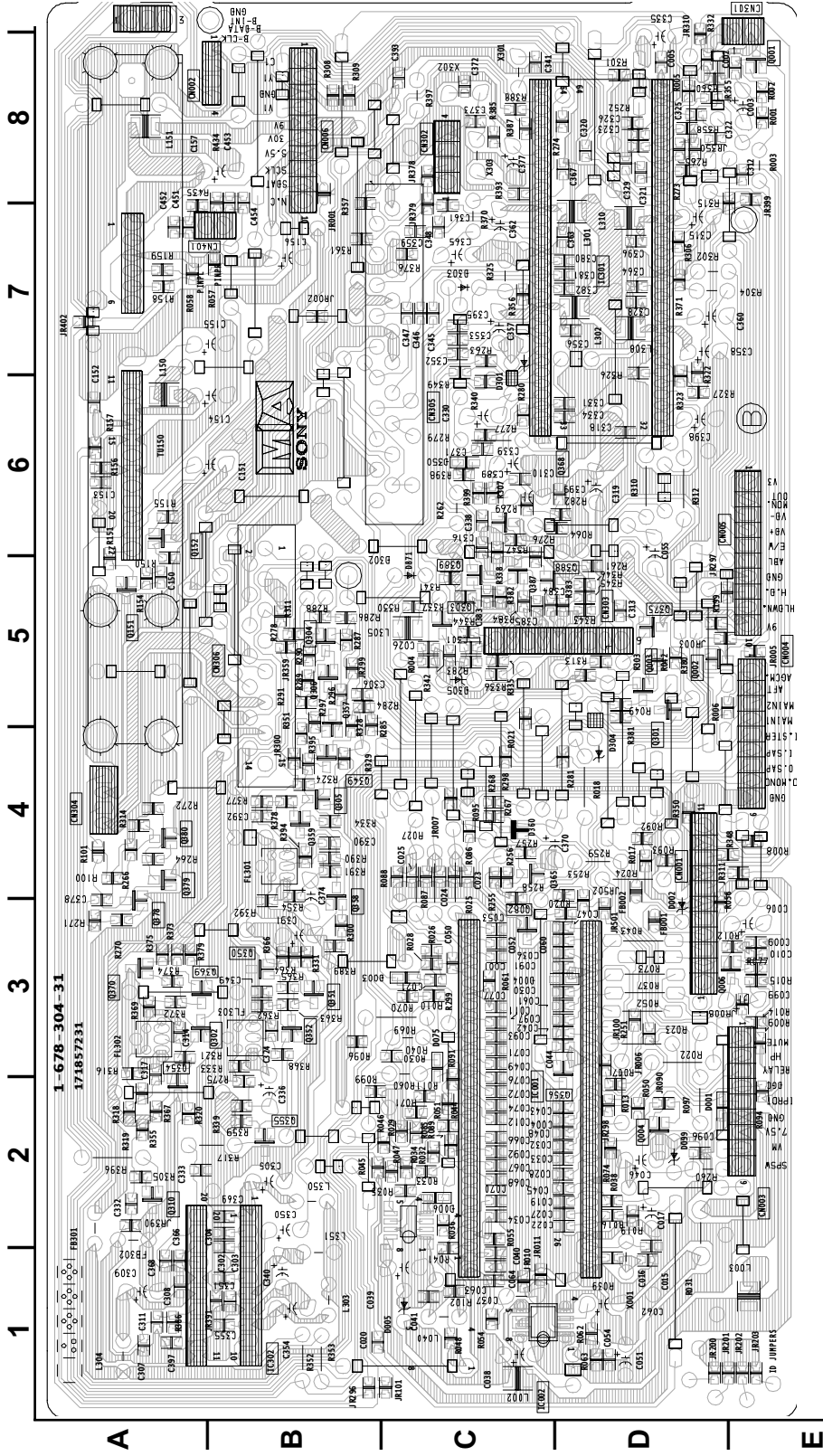






[TUNING CONTROL, Y/C/J, 2ND TUNER]

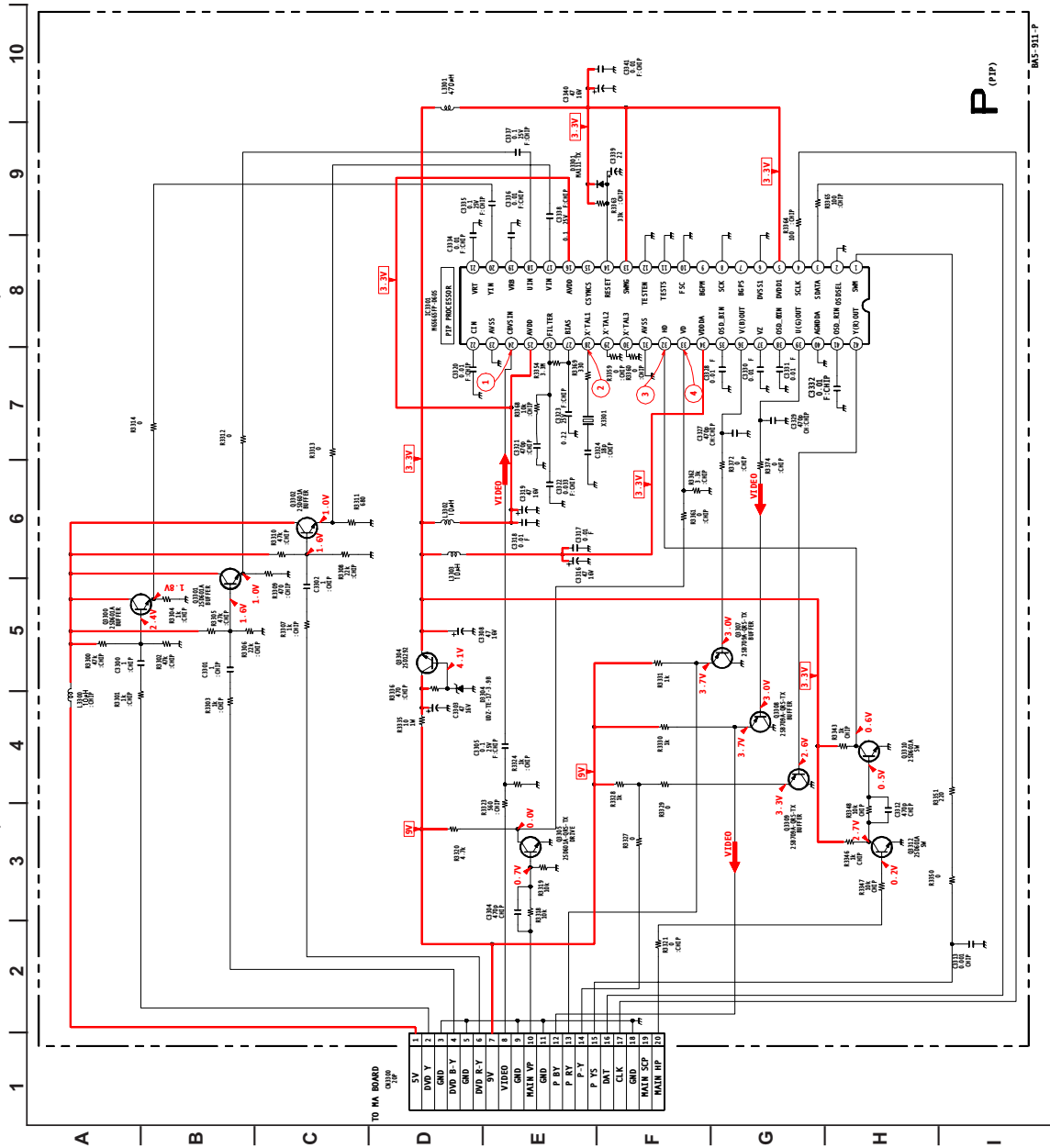
KV-27FS13/27FS17/27FV17/29FV17/29FV17C/32FS13/32FS17/34FS13C/34FS17



MA BOARD LOCATOR LIST

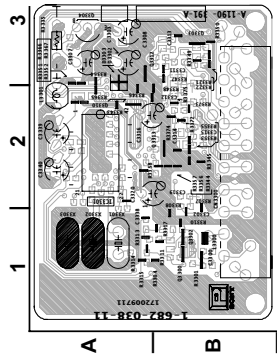
DIODE	IC		CRYSTAL			
	D-2	IC001	C-2	Q151	A-5	Q358
D001	D-2	IC001	C-2	Q152	A-6	Q359
D002	D-4	IC002	C-1	Q302	A-3	Q365
D003	C-3	IC003	C-2	Q303	C-5	Q368
D004	D-3	IC301	D-7	Q305	B-4	Q369
D005	C-1	IC302	B-1	Q310	B-3	Q370
D006	C-2	TRANSISTOR	Q349	C-4	Q375	B-5
D075	C-3	Q001	D-8	Q350	B-3	Q378
D301	C-7	Q002	D-5	Q351	B-3	Q379
D302	C-5	Q003	D-5	Q352	B-3	Q380
D303	C-7	Q004	D-2	Q354	A-3	Q387
D305	B-5	Q006	D-3	Q355	B-2	Q388
D360	B-4	Q082	B-3	Q356	D-3	Q389

P BOARD SCHEMATIC DIAGRAM (KV-27FS17/27FV17/29FV17/29FV17C/32FS17/34FS17 ONLY)



P [PIP]

COMPONENT SIDE

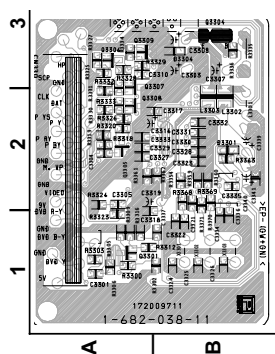


P BOARD IC VOLTAGE LIST

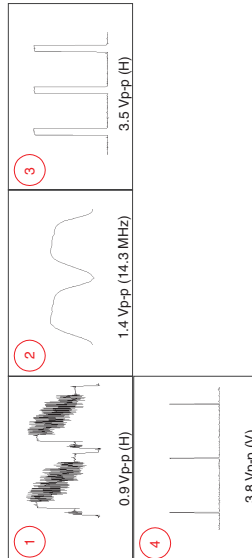
PIN	VOLT	IC3301	24	3.4
1	0.2	25	3.4	
2	GND	26	1.4	
3	4.7	27	1.7	
4	4.8	28	2.0	
5	3.2	30	0.0	
6	GND	31	0.0	
7	0.0	32	0.5	
8	GND	33	0.0	
9	N/C	34	GND	
10	N/C	35	3.1	
11	GND	36	1.1	
12	GND	37	3.0	
13	3.2	38	1.2	
14	3.2	39	2.6	
15	3.2	40	3.5	
16	GND	41	1.0	
17	GND	42	GND	
18	0.3			
19	GND			
20	0.5			
21	1.6			
22	1.0			
23	0.6			

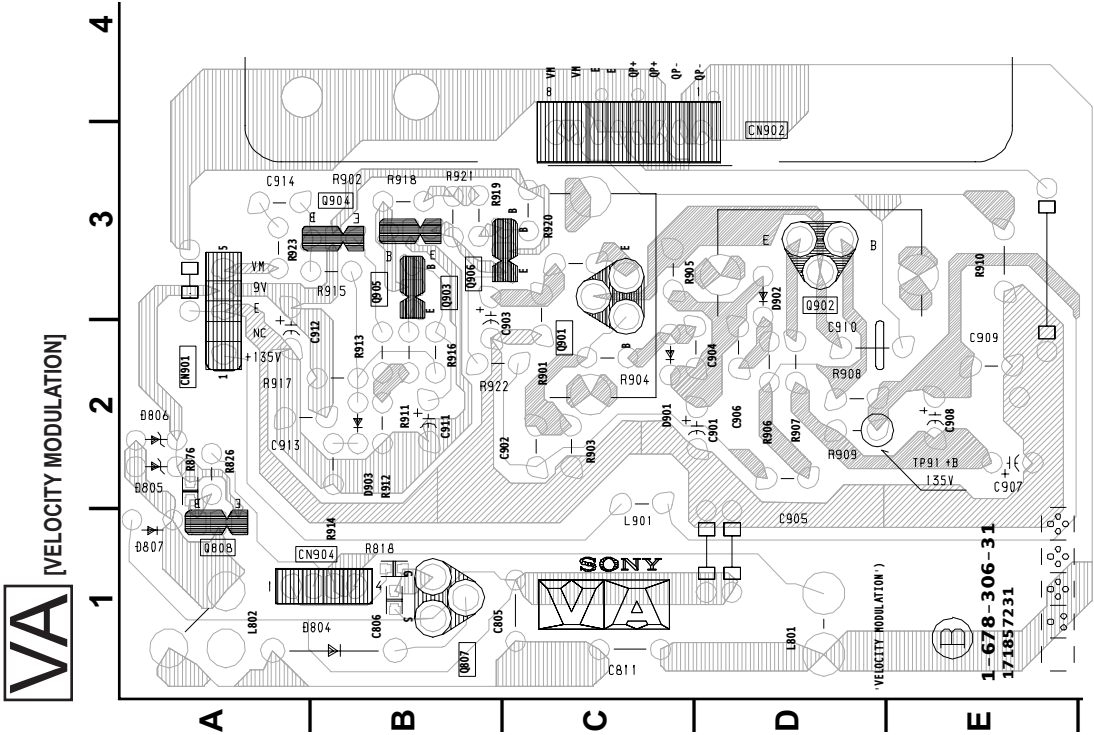
All voltages are in V

CONDUCTOR SIDE

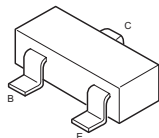

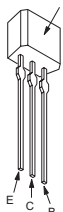
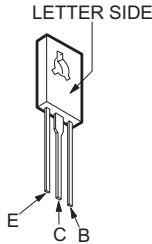
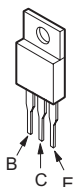
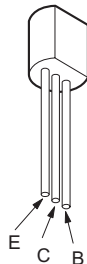

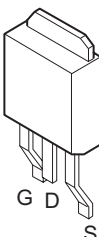
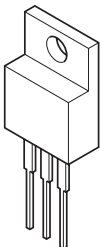
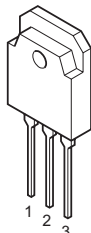
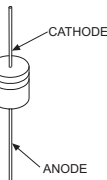
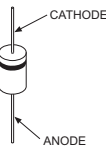
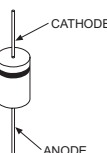
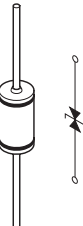
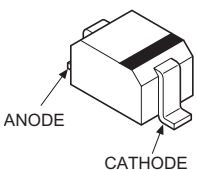
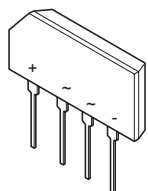
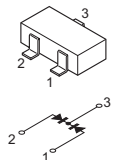
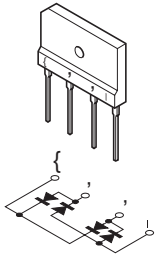
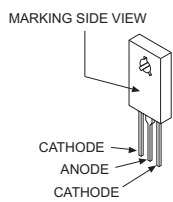
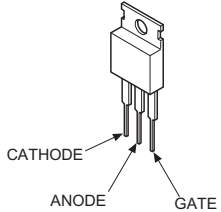


P BOARD WAVEFORMS





5-4. SEMICONDUCTORS

<div>2SB709A-QRS-TX 2SD601A-QRS-TX</div> <div></div>	<div>2SB734-T-34 2SC3209LK-TP</div> <div></div>	<div>2SA1309A-QRSTA 2SC3311A-QRSTA 2SD2144S-TP-UVW</div> <div></div>	<div>2SC3840K</div> <div></div>	<div>2SA1837</div> <div></div>
<div>2SA10910-TPE2</div> <div></div>	<div>IRF614</div> <div></div>	<div>2SK2663</div> <div></div>	<div>2SC4793</div> <div></div>	<div>2SD2578-YB</div> <div></div>
<div>ERA38-06TP1 ERA82-004TP5 1SS133T-77 D1NS0R-TA MTZJ-T-77-12C MTZJ-T-77-15B MTZJ-T-77-33B MTZJ-T-77-39</div> <div></div>	<div>RU-1P ERC06-15S EGP20DPKG23 MTZJ-T-77-5.1C MTZJ-T-77-5.6C MTZJ-T-77-7.5A MTZJ-T-77-10B MTZJ-T-77-30D RGP10-GPKG3 RGP02-17PKG23 RGP15GPKG23</div> <div></div>	<div>ERB44-06TP1 1SS83TD GP08DPKG23 RGP10GPKG23 RU4AM-T3</div> <div></div>	<div>RD9.1EW-T1</div> <div></div>	<div>MA111-TX UDZ-TE-17.5.1B UDZ-TE-17.91B</div> <div></div>
<div>D2SB60A-F04</div> <div></div>	<div>DAP202K-T-146</div> <div></div>	<div>D4SB60L-F</div> <div></div>		
<div>D5LC20U</div> <div></div>	<div>TF541M</div> <div></div>			

SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

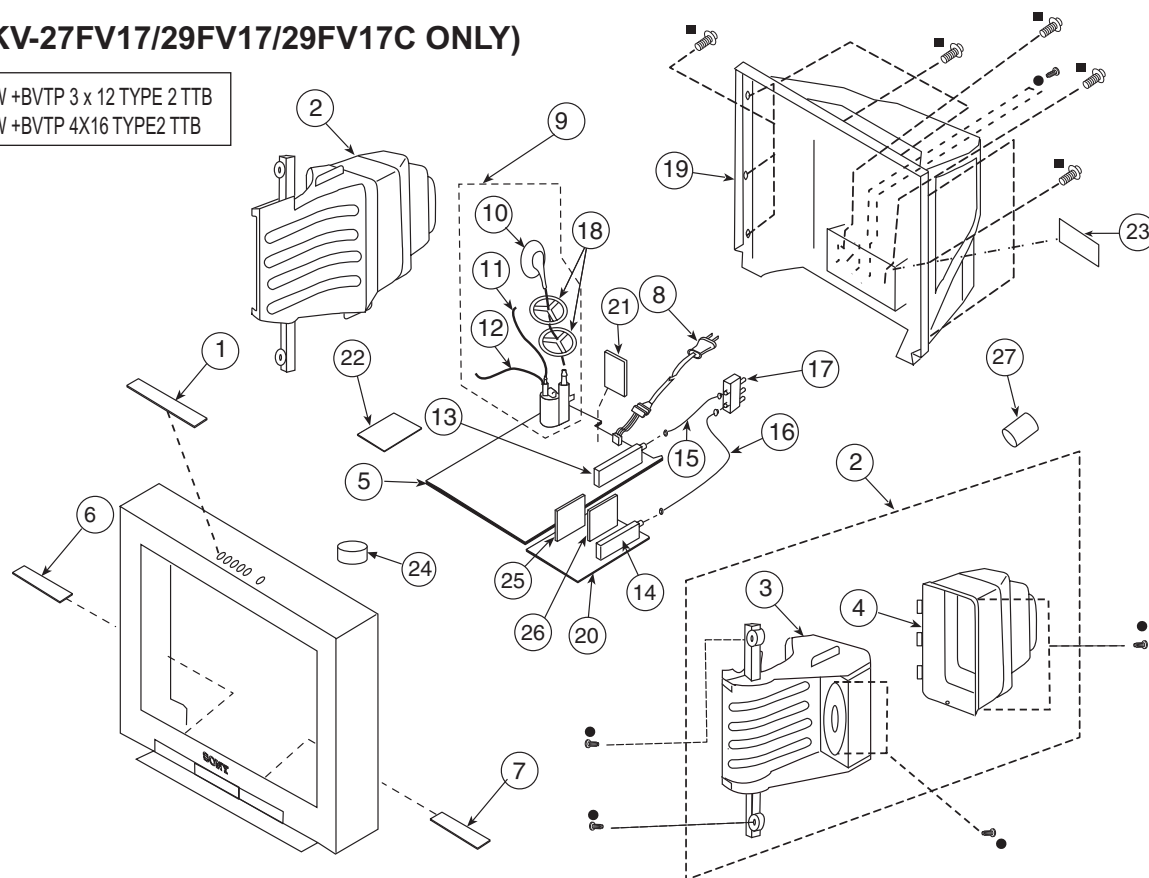
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS (KV-27FV17/29FV17/29FV17C ONLY)

- 7-685-648-91 SCREW +BVTP 3 x 12 TYPE 2 TTB
- 7-685-663-91 SCREW +BVTP 4X16 TYPE2 TTB



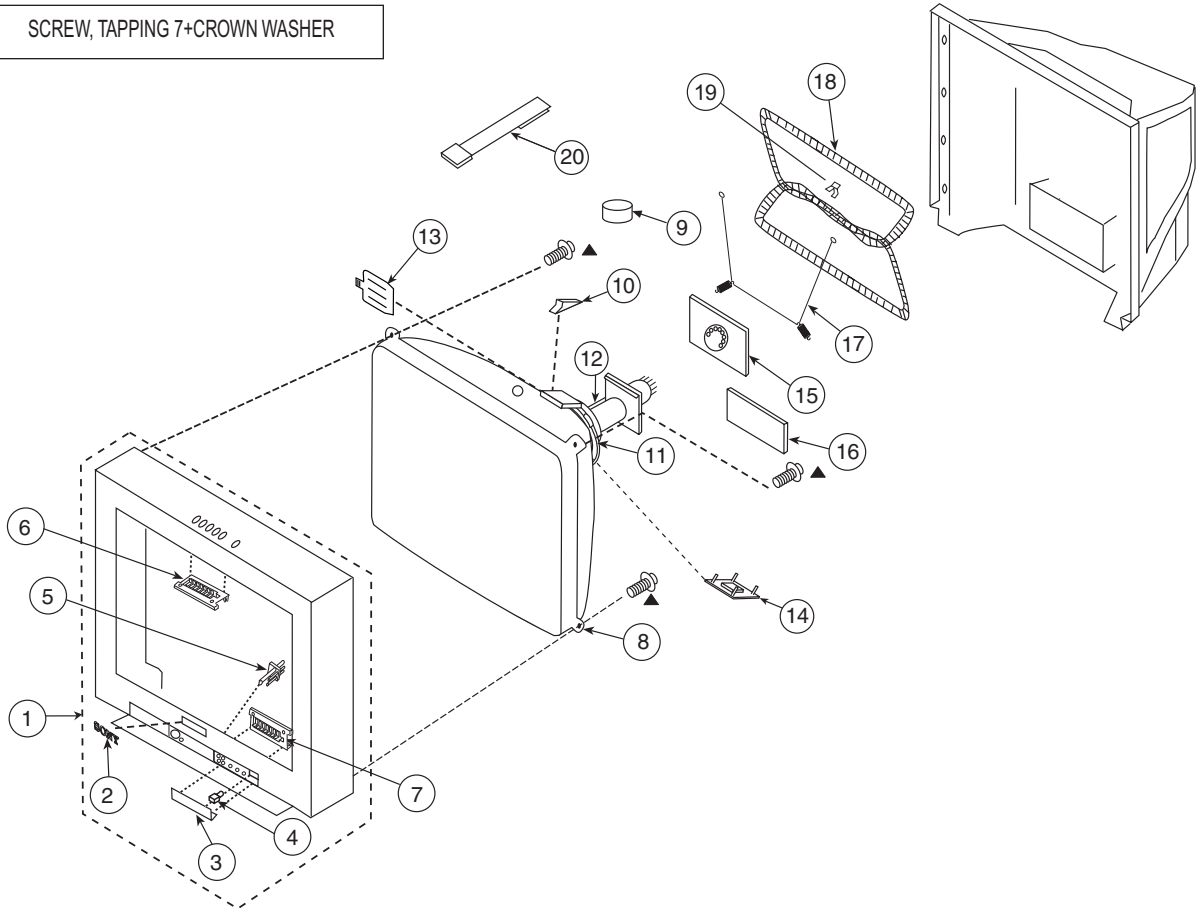
REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION
* 1	A-1372-817-A	HX MOUNTED PC BOARD		⚠ 12	1-900-803-22	G2 LEAD
* 2	1-544-780-11	SPEAKER, BOX TYPE (5.10CM)	[3-4]	⚠ 13	8-598-542-20	TUNER, FSS BTF-WA412
3	4-068-988-01	BAFFLE, SPEAKER		⚠ 14	8-598-501-30	TUNER, FSS BTF-FA402
* 4	4-068-987-01	COVER, SPEAKER		* 15	1-557-056-31	CABLE, P-P
* 5	A-1299-243-A	A COMPLETE PC BOARD (KV-27FV17 ONLY)		* 16	1-783-800-11	CABLE, PIN
5	A-1299-498-A	A COMPLETE PC BOARD (KV-29FV17 ONLY)		17	8-598-414-20	CHANGER, ANTENNA AS-2F
5	A-1299-244-A	A COMPLETE PC BOARD (KV-29FV17C ONLY)		18	3-704-372-71	HOLDER, HV CABLE
The high-voltage leads associated with the FBT on this board are not included and must be ordered separately (See 10-12).				19	4-076-875-01	COVER, REAR
* 6	A-1372-825-A	HA MOUNTED PC BOARD		The labels associated with the rear cover are not included and must be ordered separately (See 23).		
* 7	A-1372-826-A	HB (VAR) MOUNTED PC BOARD		* 20	A-1304-202-A	MA (VAR) MOUNTED PC BOARD
⚠ 8	1-769-796-31	CORD, POWER (WITH CONNECTOR)		* 21	A-1380-633-A	K (VAR) MOUNTED PC BOARD
⚠ 8	1-792-874-11	CORD, AC POWER(WITH CONNECTOR)		* 22	A-1343-875-A	D (VAR) MOUNTED PC BOARD
				23	4-075-666-01	LABEL, 2-TUNER ANTENNA
⚠ 9	1-453-310-11	FBT ASSY NX-4521//X4J4	[10-12]	24	1-452-094-00	CIRCULAR DISC MAGNET B
⚠ 10	1-251-374-13	HV CAP ASSY		25	A-1190-391A	P MOUNTED PC BOARD
⚠ 11	1-900-800-82	FOCUS LEAD		* 26	A-1131-593-A	BC MOUNTED PC BOARD
				27	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
				(KV-27FV17/29FV17 ONLY)		

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-2. PICTURE TUBE REMOVAL (KV-27FV17/29FV17/29FV17C ONLY)

▲ 4-046-765-12 SCREW, TAPPING 7+CROWN WASHER



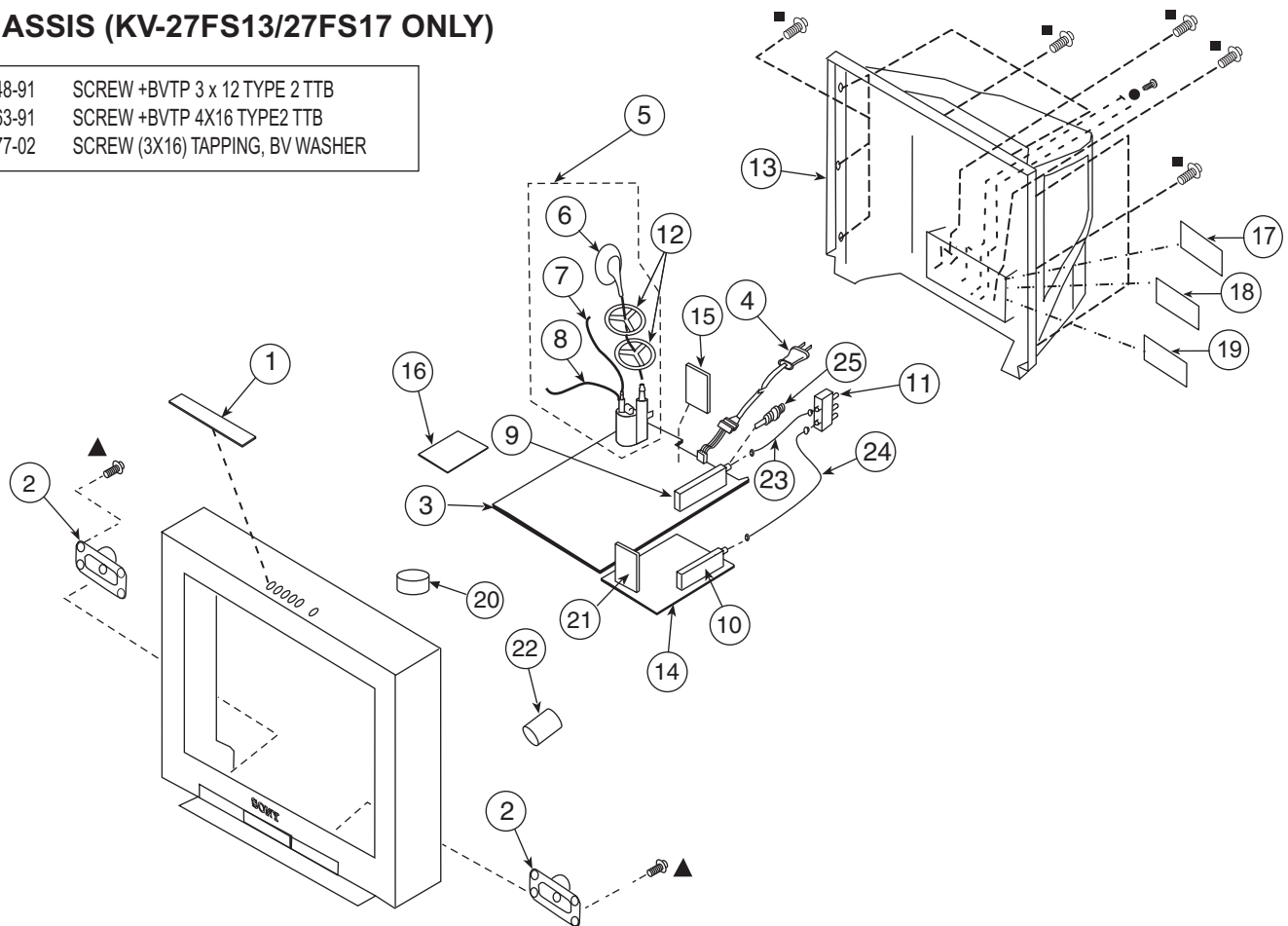
REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION
1	X-4038-944-1	BEZNET ASSY (KV-27FV17 ONLY)	[2-4]	* 15	A-1332-063-A	CA (VAR) MOUNTED PC BOARD
1	X-4037-842-2	BEZNET ASSY (KV-29FV17/29FV17C ONLY)	[2-4]	* 16	A-1342-550-A	VA (VAR) MOUNTED PC BOARD
2	3-704-179-31	EMBLEM (NO.9), SONY		17	4-036-329-01	SPRING (B), TENSION
3	X-4037-631-3	DOOR		⚠ 18	1-419-156-21	COIL, DEGAUSSING (KV-27FV17/29FV17 ONLY)
4	3-703-574-00	RETAINER, DOOR		⚠ 18	1-419-523-21	COIL, DEGAUSSING (KV-29FV17C ONLY)
5	4-068-986-11	GUIDE, LED		* 19	4-062-970-12	CLIP (29RSN), DGC
6	4-068-982-11	MULTI-BUTTON (TOP)		20	4-062-047-02	PIECE A(110), CONV CORRECT
7	4-068-984-01	MULTI-BUTTON (BOTTOM)				
⚠ 8	8-735-082-05	CRT 29RSN(SDP) (KV-27FV17/29FV17 ONLY)				
⚠ 8	8-735-083-05	CRT 29RSN(SDP)(SOUTH) (KV-29FV17C ONLY)				
9	1-452-032-00	MAGNET, DISC				
10	4-053-005-01	SPACER, DY				
⚠ 11	8-451-494-41	DY Y29RSA-V				
⚠ 12	8-453-011-11	NA299-M (NECK ASSEMBLY)				
13	4-081-170-01	PLATE, TLH CORRECTION				
14	1-452-896-11	COIL, NA ROTATION (RT200)				

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-3. CHASSIS (KV-27FS13/27FS17 ONLY)

- 7-685-648-91 SCREW +BVTP 3 x 12 TYPE 2 TTB
- 7-685-663-91 SCREW +BVTP 4X16 TYPE2 TTB
- ▲ 4-388-477-02 SCREW (3X16) TAPPING, BV WASHER



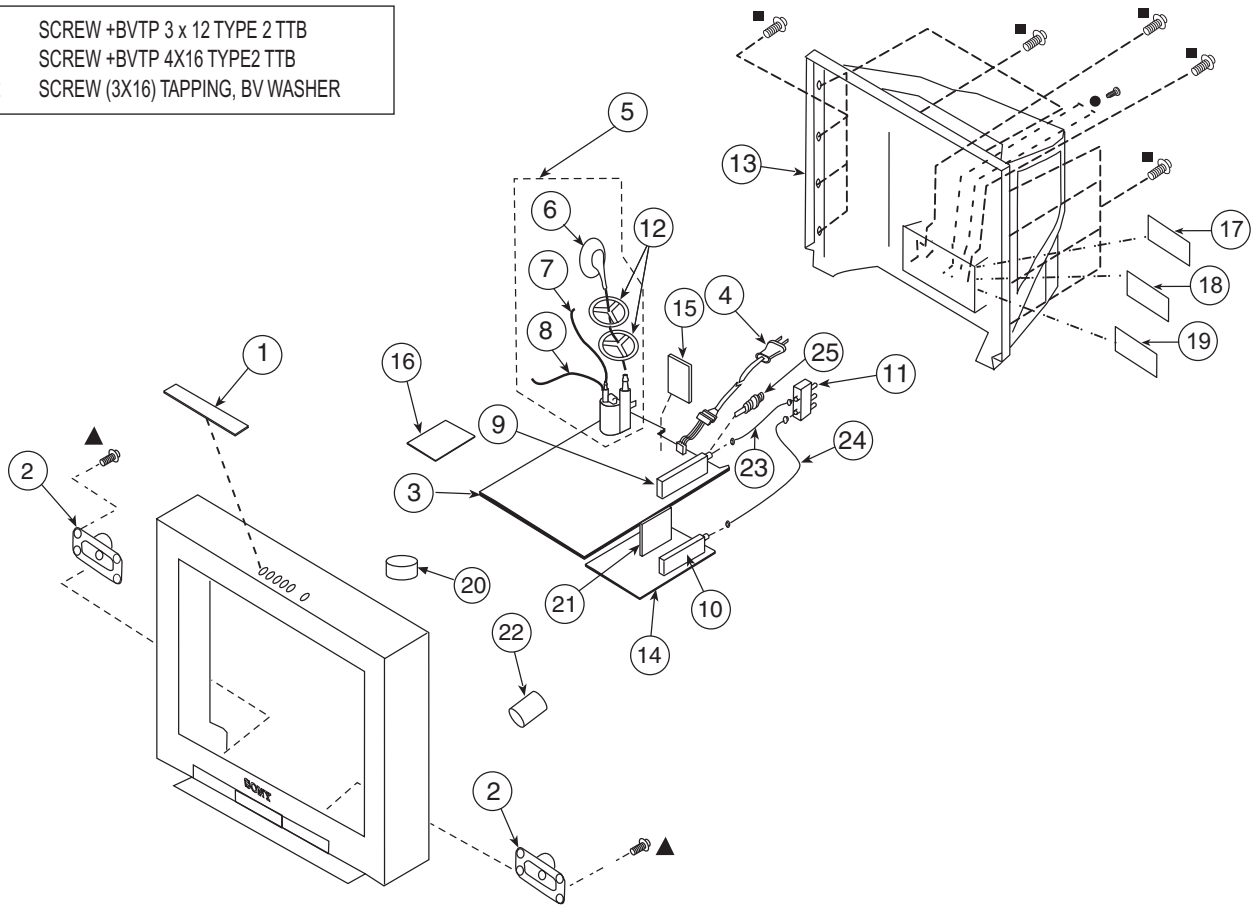
REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION
* 1	A-1372-817-A	HX MOUNTED PC BOARD		* 14	A-1304-198-A	MA (VAR) MOUNTED PC BOARD (KV-27FS17 ONLY)
2	1-529-638-11	SPEAKER (6X12CM)		* 15	A-1380-632-A	K (VAR) MOUNTED PC BOARD
* 3	A-1299-502-A	A COMPLETE PC BOARD (KV-27FS13 ONLY)		* 16	A-1343-875-A	D (VAR) MOUNTED PC BOARD
* 3	A-1299-503-A	A COMPLETE PC BOARD (KV-27FS17 ONLY)		17	4-075-666-01	LABEL, 2-TUNER ANTENNA (KV-27FS17 ONLY)
		The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 6-8.)		18	4-075-664-01	LABEL, 1-TUNER ANTENNA (KV-27FS13 ONLY)
⚠ 4	1-792-874-11	CORD, AC POWER (WITH CONNECTOR)		19	4-075-665-01	LABEL, TERMINAL
⚠ 5	1-453-310-11	FBT ASSY NX-4521//X4J4	[6-8]	20	1-452-094-00	CIRCULAR DISC MAGNET B
⚠ 6	1-251-374-13	HV CAP ASSY		* 21	A-1190-391-A	P MOUNTED PC BOARD (KV-27FS17 ONLY)
⚠ 7	1-900-800-82	FOCUS LEAD		22	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
⚠ 8	1-900-803-22	G2 LEAD		23	1-557-056-31	CABLE, P-P (KV-27FS17 ONLY)
⚠ 9	8-598-542-20	TUNER, FSS BTF-WA412		24	1-783-800-11	CABLE, PIN (KV-27FS17 ONLY)
⚠ 10	8-598-501-30	TUNER, FSS BTF-FA402 (KV-27FS17 ONLY)		25	1-766-374-11	PLUG, F-PIN (KV-27FS13 ONLY)
11	8-598-414-20	CHANGER, ANTENNA AS-2F (KV-27FS17 ONLY)				
12	3-704-372-71	HOLDER, HV CABLE				
13	4-075-652-11	COVER, REAR				
		The labels associated with the rear cover are not included and must be ordered separately (See 17-19).				
* 14	A-1304-200-A	MA (VAR) MOUNTED PC BOARD (KV-27FS13 ONLY)				

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-4. CHASSIS (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)

- 7-685-648-91 SCREW +BVTP 3 x 12 TYPE 2 TTB
- 7-685-663-91 SCREW +BVTP 4X16 TYPE2 TTB
- ▲ 4-388-477-02 SCREW (3X16) TAPPING, BV WASHER



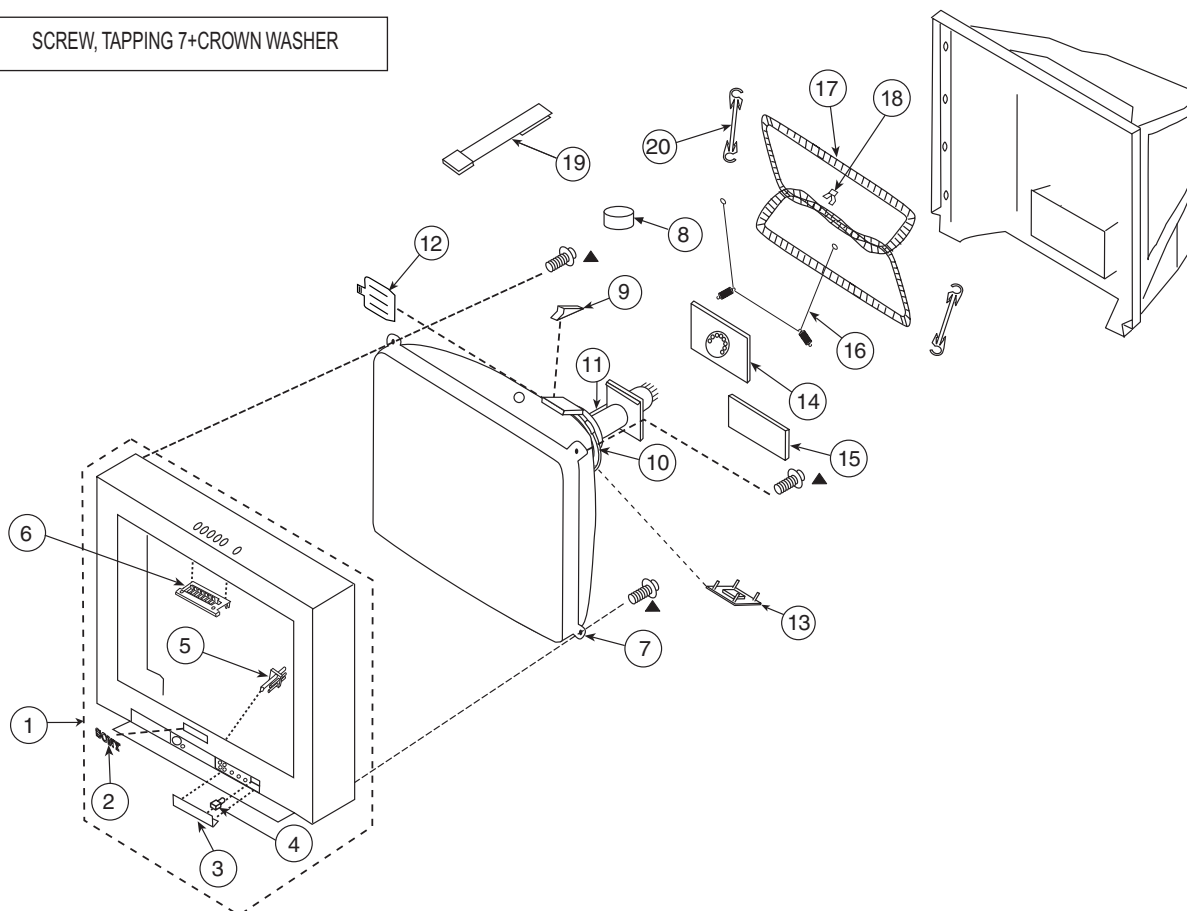
REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION
* 1	A-1372-817-A	HX MOUNTED PC BOARD		13	4-075-654-01	COVER, REAR
2	1-529-638-11	SPEAKER (6X12CM)		The labels associated with the rear cover are not included and must be ordered separately (See 17-19).		
* 3	A-1299-516-A	A COMPLETE PC BOARD (KV-32FS13 ONLY)		* 14	A-1304-196-A	MA (VAR) MOUNTED PC BOARD (KV-32FS17/34FS17 ONLY)
* 3	A-1299-504-A	A COMPLETE PC BOARD (KV-32FS17/34FS17 ONLY)		* 14	A-1304-203-A	MA (VAR) MOUNTED PC BOARD (KV-32FS13/34FS13C ONLY)
* 3	A-1299-506-A	A COMPLETE PC BOARD (KV-34FS13C ONLY)		* 15	A-1380-632-A	K (VAR) MOUNTED PC BOARD
The high-voltage leads associated with the FBT on this board are not included and must be ordered separately (See 6-8).				* 16	A-1343-874-A	D (VAR) MOUNTED PC BOARD
⚠ 4	1-792-874-11	CORD, AC POWER (WITH CONNECTOR) (KV-32FS13/32FS17/34FS17 ONLY)		17	4-075-666-01	LABEL, 2-TUNER ANTENNA (KV-32FS17/34FS17 ONLY)
⚠ 4	1-769-796-31	CORD, POWER (WITH CONNECTOR) (KV-34FS13C ONLY)		18	4-075-664-01	LABEL, 1-TUNER ANTENNA (KV-32FS13/34FS13C ONLY)
⚠ 5	1-453-338-11	FBT ASSY NX-4600//X4J4	[6-8]	19	4-075-665-01	LABEL, TERMINAL
⚠ 6	1-251-374-13	HV CAP ASSY		20	1-452-094-00	CIRCULAR DISC MAGNET B
⚠ 7	1-900-800-82	FOCUS LEAD		* 21	A-1190-391-A	P MOUNTED PC BOARD (KV-32FS17/34FS17 ONLY)
⚠ 8	1-900-803-50	G2 LEAD		22	1-500-586-11	FILTER, CLAMP (FERRITE CORE) (KV-32FS13/32FS17 ONLY)
⚠ 9	8-598-542-20	TUNER, FSS BTF-WA412		23	1-557-056-31	CABLE, P-P (KV-32FS17/34FS17 ONLY)
⚠ 10	8-598-501-30	TUNER, FSS BTF-FA402 (KV-32FS17/34FS17 ONLY)		24	1-783-800-11	CABLE, PIN (KV-32FS17/34FS17 ONLY)
11	8-598-414-20	CHANGER, ANTENNA AS-2F (KV-32FS17/34FS17 ONLY)		25	1-766-374-11	PLUG, F-PIN (KV-32FS13/34FS13C ONLY)
12	3-704-372-71	HOLDER, HV CABLE				

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-5. PICTURE TUBE REMOVAL (KV-27FS13/27FS17/32FS13/32FS17/34FS13C/34FS17 ONLY)

▲ 4-046-765-12 SCREW, TAPPING 7+CROWN WASHER



REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION
1	X-4038-955-1	BEZNET ASSY (KV-27FS13/27FS17 ONLY)	[2-5]	⚠ 11	8-453-011-11	NA299-M (NECK ASSEMBLY) (KV-27FS13/27FS17 ONLY)
1	X-4039-003-1	BEZNET ASSY (KV-32FS13/32FS17 ONLY)	[2-5]	⚠ 11	8-453-007-41	NA324-M4 (NECK ASSEMBLY) (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)
1	X-4037-664-3	BEZNET ASSY (KV-34FS13/34FS17 ONLY)	[2-5]	12	4-081-170-01	PLATE, TLH CORRECTION
2	3-704-179-31	EMBLEM (NO.9), SONY		13	1-452-896-11	COIL, NA ROTATION (RT200)
3	4-075-658-21	DOOR (KV-34FS13C/34FS17 ONLY)		* 14	A-1332-063-A	CA (VAR) MOUNTED PC BOARD (KV-27FS13/27FS17 ONLY)
3	4-075-658-31	DOOR (KV-27FS13/27FS17/32FS13/32FS17 ONLY)		* 14	A-1332-061-A	CA (VAR) MOUNTED PC BOARD (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)
4	4-047-464-01	CATCHER, PUSH		* 15	A-1342-550-A	VA (VAR) MOUNTED PC BOARD (KV-27FS13/27FS17 ONLY)
5	4-075-657-01	GUIDE, LED		* 15	A-1342-549-A	VA (VAR) MOUNTED PC BOARD (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)
6	4-068-982-11	MULTI-BUTTON (TOP)		16	4-036-329-01	SPRING (B), TENSION
⚠ 7	8-735-082-05	CRT 29RSN(SDP) (KV-27FS13/27FS17 ONLY)		⚠ 17	1-419-156-21	COIL, DEGAUSSING (KV-27FS13/27FS17 ONLY)
⚠ 7	8-735-066-05	CRT 34RSN(SDP) (KV-32FS13/32FS17/34FS17 ONLY)		⚠ 17	1-416-827-21	COIL, DEGAUSSING (KV-32FS13/32FS17/34FS17 ONLY)
⚠ 7	8-735-084-05	CRT 34RSN(SDP)(SOUTH) (KV-34FS13C ONLY)		⚠ 17	1-416-866-11	COIL, DEGAUSSING (KV-34FS13C ONLY)
8	1-452-032-00	MAGNET, DISC		* 18	4-062-970-12	CLIP (29RSN), DGC (KV-27FS13/27FS17 ONLY)
9	4-053-005-01	SPACER, DY		19	4-062-047-02	PIECE A(110), CONV CORRECT
⚠ 10	8-451-494-41	DY Y29RSA-V (KV-27FS13/27FS17 ONLY)		20	4-065-895-11	HOLDER, DGC (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)
⚠ 10	8-451-499-41	DY Y34RSA-V (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)				

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
Refer to the designated variant parts list when seeking a part indicated by an asterick (*) on the MA Board Schematic or by the phrase "VARIANT (SEE VARIANT PARTS LIST)" on the Common Parts Listing


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COMMON PARTS LISTING FS SERIES



NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components in this manual identified by the following symbol:  indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

RESISTORS

- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
A BOARD COMMON PARTS LISTING FS SERIES											
<div>A</div>											
*	A-1299-502-A	A COMPLETE PC BOARD (KV-27FS13 ONLY)				C219	1-126-964-11	ELECT	10µF	20%	50V
*	A-1299-503-A	A COMPLETE PC BOARD (KV-27FS17 ONLY)				C401	1-126-968-11	ELECT	100µF	20%	50V
*	A-1299-516-A	A COMPLETE PC BOARD (KV-32FS13 ONLY)				C402	1-126-943-11	ELECT	2200µF	20%	25V
*	A-1299-504-A	A COMPLETE PC BOARD (KV-32FS17/34FS17 ONLY)				C403	1-126-957-11	ELECT	0.22µF	20%	50V
*	A-1299-506-A	A COMPLETE PC BOARD (KV-34FS13C ONLY)				C420	1-164-222-91	CERAMIC	0.22µF		25V
The high-voltage leads associated with the FBT on the A board are not included and must be ordered separately. Order the following leads when requesting this A board:						C421	1-216-295-91	SHORT			
						C435	1-164-222-91	CERAMIC	0.22µF		25V
						C441	1-164-346-11	CERAMIC	1µF		16V
						C442	1-126-963-11	ELECT	4.7µF	20%	50V
						C496	1-216-295-91	SHORT			
						C501	1-102-114-00	CERAMIC	470pF	10%	50V
						C502	1-106-383-00	MYLAR	0.047µF	10%	200V
						C503	1-102-228-00	CERAMIC	470pF	10%	500V
						C504	1-102-228-00	CERAMIC	470pF	10%	500V
						⚠ C505	1-162-116-00	CERAMIC	680pF	10%	2KV
						C506	1-162-318-11	CERAMIC	0.001µF	10%	500V
						C507		VARIANT (SEE VARIANT PARTS LIST)			
						⚠ C508	1-137-150-11	MYLAR	0.01µF	10%	100V
						⚠ C509	1-162-116-00	CERAMIC	680pF	10%	2KV
						C510	1-107-649-11	ELECT	2.2µF	20%	250V
						C511		VARIANT (SEE VARIANT PARTS LIST)			
						⚠ C512	1-106-387-00	MYLAR	0.068µF	10%	200V
						C513	1-104-987-11	MYLAR	0.001µF	10%	100V
						C514		VARIANT (SEE VARIANT PARTS LIST)			
						⚠ C515	1-162-116-00	CERAMIC	680pF	10%	2KV
						C517		VARIANT (SEE VARIANT PARTS LIST)			
						C520		VARIANT (SEE VARIANT PARTS LIST)			
						C521	1-164-646-11	CERAMIC	2200pF	10%	500V
						C523	1-126-941-11	ELECT	470µF	20%	25V
						C524	1-102-244-00	CERAMIC	220pF	10%	500V
						C525	1-107-612-11	CERAMIC	100pF	5%	500V
						C526	1-126-960-11	ELECT	1µF	20%	50V
						C527	1-126-965-91	ELECT	22µF	20%	50V
						C528	1-164-161-11	CERAMIC	0.0022µF	10%	50V
						C529	1-164-161-11	CERAMIC	0.0022µF	10%	50V
						C530		VARIANT (SEE VARIANT PARTS LIST)			
						C531	1-106-387-00	MYLAR	0.068µF	10%	200V
						C533	1-126-941-11	ELECT	470µF	20%	25V

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



COMMON PARTS LISTING FS SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
\triangle C534	1-126-964-11	ELECT	10 μ F	20%	50V	C636	1-126-970-11	ELECT	330 μ F	20%	50V
C535	1-126-959-11	ELECT	0.47 μ F	20%	50V	C637	1-163-009-91	CERAMIC	0.001 μ F	10%	50V
C536	1-102-228-00	CERAMIC	470pF	10%	500V	C638	1-163-005-91	CERAMIC	470pF	10%	50V
\triangle C537	1-126-965-91	ELECT	22 μ F	20%	50V	C639	1-126-965-91	ELECT	22 μ F	20%	50V
C539	1-107-662-11	ELECT	22 μ F	20%	250V	C641	1-107-679-91	ELECT	10 μ F	20%	450V
C540	1-107-645-11	ELECT	22 μ F	20%	160V	C643	1-104-760-11	CERAMIC	0.047 μ F	10%	50V
C541	1-126-969-11	ELECT	220 μ F	20%	50V	C647	1-161-964-91	CERAMIC	0.0047 μ F		250V
C542	1-126-967-11	ELECT	47 μ F	20%	50V	C648	1-136-346-21	MYLAR	0.22 μ F	20%	125V
C543	1-136-169-00	FILM	0.22 μ F	5%	50V	C652	1-130-471-00	MYLAR	0.001 μ F	5%	50V
\triangle C546	1-126-965-91	ELECT	22 μ F	20%	50V	C654	1-107-636-11	ELECT	10 μ F	20%	160V
\triangle C547	1-163-031-91	CERAMIC	0.01 μ F		50V	\triangle C655	1-136-311-11	MYLAR	0.47 μ F	20%	125V
C548		VARIANT (SEE VARIANT PARTS LIST)				C657	1-104-664-11	ELECT	47 μ F	20%	25V
C549	1-126-934-11	ELECT	220 μ F	20%	16V	C658		VARIANT (SEE VARIANT PARTS LIST)			
C550		VARIANT (SEE VARIANT PARTS LIST)				C659	1-135-573-51	ELECT	15000 μ F	20%	25V
\triangle C551	1-137-417-11	MYLAR	0.0047 μ F	10%	200V	C660		VARIANT (SEE VARIANT PARTS LIST)			
C553	1-107-662-11	ELECT	22 μ F	20%	250V	C661		VARIANT (SEE VARIANT PARTS LIST)			
C554	1-102-110-00	CERAMIC	220pF	10%	50V	C2001	1-104-664-11	ELECT	47 μ F	20%	25V
C555		VARIANT (SEE VARIANT PARTS LIST)				CONNECTOR					
C601	1-164-004-11	CERAMIC	0.1 μ F	10%	25V	* CN301	1-564-507-11	PLUG,CONNECTOR 4P			
C602	1-126-967-11	ELECT	47 μ F	20%	50V	* CN406	1-564-507-11	PLUG,CONNECTOR 4P			
C604	1-164-182-11	CERAMIC	0.0033 μ F	10%	50V	CN460	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P			
\triangle C606	1-127-793-51	CERAMIC	2200pF	20%	250V	* CN501	1-580-798-11	CONNECTOR PIN (DY) 6P			
C607		VARIANT (SEE VARIANT PARTS LIST)				CN502	1-564-509-11	PLUG,CONNECTOR 6P			
C609	1-126-968-11	ELECT	100 μ F	20%	50V	* CN504	1-508-784-21	PIN,CONNECTOR (5MM PITCH) 1P			
C610	1-126-964-11	ELECT	10 μ F	20%	50V	* CN506	1-564-508-11	PLUG,CONNECTOR 5P			
\triangle C611	1-164-182-11	CERAMIC	2200pF	20%	250V	* CN515	1-564-510-11	PLUG,CONNECTOR 7P			
C612		VARIANT (SEE VARIANT PARTS LIST)				CN602	1-580-843-11	PIN,CONNECTOR (POWER)			
C613	1-126-964-11	ELECT	10 μ F	20%	50V	* CN603	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P			
C614	1-130-495-00	MYLAR	0.1 μ F	5%	50V	* CN604		VARIANT (SEE VARIANT PARTS LIST)			
C615		VARIANT (SEE VARIANT PARTS LIST)				* CN2001	1-564-511-11	PLUG,CONNECTOR 8P			
C616		VARIANT (SEE VARIANT PARTS LIST)				* CN2003	1-564-506-11	PLUG,CONNECTOR 3P			
C617	1-125-893-11	FILM	680pF	3%	1.5KV	* CN2005	1-764-333-11	PLUG,CONNECTOR 10P			
C618	1-164-081-11	CERAMIC	470pF	10%	50V	* CN2006	1-764-333-11	PLUG,CONNECTOR 10P			
C619	1-136-356-11	MYLAR	470pF	5%	50V	* CN2007	1-564-512-11	PLUG,CONNECTOR 9P			
C620	1-104-665-11	ELECT	100 μ F	20%	25V	* CN2008	1-564-512-11	PLUG,CONNECTOR 9P			
C621	1-125-772-91	CERAMIC	1500pF	10%	2KV	DIODE					
C622	1-164-625-11	CERAMIC	680pF	10%	500V	D201	8-719-108-12	DIODE RD9.1EW-T1			
C623	1-164-625-11	CERAMIC	680pF	10%	500V	D203	8-719-108-12	DIODE RD9.1EW-T1			
C624	1-131-867-51	ELECT	100 μ F		160V	D204	8-719-982-22	DIODE MTZJ-T-77-30D			
C625		VARIANT (SEE VARIANT PARTS LIST)				D205	8-719-108-12	DIODE RD9.1EW-T1			
C626	1-135-573-51	ELECT	15000 μ F	20%	25V	D206	8-719-108-12	DIODE RD9.1EW-T1			
C627	1-136-189-00	MYLAR	0.1 μ F	10%	250V	D208	8-719-108-12	DIODE RD9.1EW-T1			
C628	1-104-665-11	ELECT	100 μ F	20%	25V	D209	8-719-069-60	DIODE UDZSTE-179.1B			
C630		VARIANT (SEE VARIANT PARTS LIST)				D210	8-719-110-17	DIODE MTZJ-T-77-10B			
C631		VARIANT (SEE VARIANT PARTS LIST)				D211	8-719-108-12	DIODE RD9.1EW-T1			
C634	1-137-605-11	MYLAR	0.01 μ F	10%	250V	D212	8-719-110-17	DIODE MTZJ-T-77-10B			
C635	1-163-009-91	CERAMIC	0.001 μ F	10%	50V	D213	8-719-110-17	DIODE MTZJ-T-77-10B			


NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



COMMON PARTS LISTING FS SERIES











REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D214	8-719-108-12	DIODE RD9.1EW-T1		D620	8-719-510-37	DIODE D5LC20U	
D215	8-719-108-12	DIODE RD9.1EW-T1		D622	8-719-077-76	DIODE D2SB60A-F04	
D230	8-719-108-12	DIODE RD9.1EW-T1		D623	8-719-081-70	DIODE BA159DGPPKG3	
D231	8-719-108-12	DIODE RD9.1EW-T1		D624	8-719-991-33	DIODE 1SS133T-77	
D232	8-719-108-12	DIODE RD9.1EW-T1		D625	8-719-991-33	DIODE 1SS133T-77	
D233	8-719-108-12	DIODE RD9.1EW-T1		D626	8-719-046-74	DIODE 10ELS2N-TA1B2	
D401	8-719-110-17	DIODE MTZJ-T-77-10B		D627	8-719-110-03	DIODE MTZJ-T-77-7.5A	
⚠ D501	8-719-945-80	DIODE ERC06-15S		D628	8-719-510-48	DIODE D1N20R-TA	
D502	8-719-908-03	DIODE GP08DPKG23		D2001	8-719-070-80	DIODE LNK0120022G	
D503	8-719-908-03	DIODE GP08DPKG23		D2002	8-719-110-17	DIODE MTZJ-T-77-10B	
⚠ D504	8-719-945-80	DIODE ERC06-15S		D2003	8-719-108-12	DIODE RD9.1EW-T1	
D505	8-719-312-10	DIODE RU4AM-T3		D2004	8-719-921-44	DIODE MTZJ-T-77-5.1C	
D506	8-719-302-43	DIODE RGP10GPKG3		D2005	8-719-921-44	DIODE MTZJ-T-77-5.1C	
D507	8-719-991-33	DIODE 1SS133T-77		FUSE			
D508	8-719-991-33	DIODE 1SS133T-77		⚠ F601	1-576-193-11	FUSE 6.3A/125V	
D509	8-719-109-89	DIODE MTZJ-T-77-5.6C		FERRITE BEAD			
D510	8-719-908-03	DIODE GP08DPKG23		FB501	1-410-397-21	FERRITE	1.1μH
D511	8-719-302-43	DIODE RGP10GPKG23		FB502	1-410-397-21	FERRITE	1.1μH
D512	8-719-404-50	DIODE MA111-TX		FB503	1-410-397-21	FERRITE	1.1μH
D513	8-719-979-85	DIODE RGP15GPKG23		FB600	1-412-911-11	FERRITE	0μH
D514	8-719-979-85	DIODE RGP15GPKG23		FB601	1-412-911-11	FERRITE	0μH
D515	8-719-404-50	DIODE MA111-TX		FB602	1-412-911-11	FERRITE	0μH
⚠ D516	8-719-991-33	DIODE 1SS133T-77		FB603	1-412-911-11	FERRITE	0μH
⚠ D517	8-719-991-33	DIODE 1SS133T-77		FB604	1-412-911-11	FERRITE	0μH
⚠ D518	8-719-921-63	DIODE MTZJ-T-77-7.5X		FB605		VARIANT (SEE VARIANT PARTS LIST)	
⚠ D519	8-719-979-84	DIODE EGP20DPKG23		FB606	1-412-911-11	FERRITE	0μH
⚠ D520	8-719-404-50	DIODE MA111-TX		FB607		VARIANT (SEE VARIANT PARTS LIST)	
D521	8-719-991-33	DIODE 1SS133T-77		FB608		VARIANT (SEE VARIANT PARTS LIST)	
D522	8-719-404-50	DIODE MA111-TX		FB609	1-412-911-11	FERRITE	0μH
D601	8-719-991-33	DIODE 1SS133T-77		FB610	1-412-911-11	FERRITE	0μH
D602	8-719-991-33	DIODE 1SS133T-77		IC			
D603	8-719-982-26	DIODE MTZJ-T-77-33B		⚠ IC402	8-759-573-40	IC TDA8580Q/N1	
D604	8-719-028-72	DIODE RGP02-17PKG23		⚠ IC501	8-759-700-07	IC NJM2903M-TE2	
⚠ D605	8-719-510-53	DIODE D4SB60L-F		IC502		VARIANT (SEE VARIANT PARTS LIST)	
⚠ D606	8-719-108-18	DIODE TF541M		IC601		VARIANT (SEE VARIANT PARTS LIST)	
D607	8-719-991-33	DIODE 1SS133T-77		⚠ IC602	8-749-016-47	IC EA135-F12	
D608	8-719-110-53	DIODE MTZJ-T-77-20B		IC603	8-759-653-07	IC PQ09RD21	
D609		VARIANT (SEE VARIANT PARTS LIST)		IC604	8-759-924-12	IC LM7805CT	
D610	8-719-210-21	DIODE 11EQS04-NTA1B		IC2001	8-742-212-20	HYB IC SBX3081-71	
D611	8-719-046-74	DIODE 10ELS2N-TA1B2		JACK			
D612	8-719-110-17	DIODE MTZJ-T-77-10B		J201	1-794-119-11	TERMINAL BLOCK, S 4P	
D613	8-719-046-74	DIODE 10ELS2N-TA1B2		J202	1-794-267-11	JACK, PIN 3P	
D614	8-719-046-74	DIODE 10ELS2N-TA1B2		J203	1-794-118-11	JACK BLOCK, PIN 3P	
D615	8-719-312-10	DIODE RU4AM-T3		J205	1-794-116-11	JACK BLOCK, PIN 2P	
D616	8-719-510-37	DIODE D5LC20U					
D617	8-719-110-31	DIODE MTZJ-T-77-12C					
D618	8-719-991-33	DIODE 1SS133T-77					
D619	8-719-110-17	DIODE MTZJ-T-77-10B					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



COMMON PARTS LISTING FS SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
J206	1-794-117-11	JACK BLOCK, PIN 3P		Q502		VARIANT (SEE VARIANT PARTS LIST)	
J402	1-794-116-11	JACK BLOCK, PIN 2P		 Q503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
CHIP CONDUCTOR				 Q504	8-729-053-87	TRANSISTOR KTC4370A	
JR001	1-216-295-91	SHORT		 Q505	8-729-200-17	TRANSISTOR 2SA1091O-TPE2	
JR002	1-216-295-91	SHORT		 Q506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR402	1-216-295-91	SHORT		 Q507	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR403	1-216-295-91	SHORT		Q601	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW	
JR404	1-216-295-91	SHORT		Q602	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
JR405	1-216-295-91	SHORT		 Q603	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
JR410	1-216-295-91	SHORT		Q604	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR411	1-216-295-91	SHORT		 Q605	8-729-046-40	TRANSISTOR 2SK2663	
JR471	1-164-222-91	CERAMIC	0.22μF	Q606	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR472	1-216-295-91	SHORT		Q607	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW	
JR501	1-216-295-91	SHORT		Q608	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR502	1-216-295-91	SHORT		Q609	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
JR503	1-216-295-91	SHORT		RESISTOR			
JR505	1-216-295-91	SHORT		R105	1-208-798-11	METAL	4.7K 0.50% 1/10W
JR522	1-216-295-91	SHORT		R107	1-216-025-11	RES-CHIP	100 5% 1/10W
JR523	1-216-295-91	SHORT		R108	1-216-025-11	RES-CHIP	100 5% 1/10W
JR526	1-216-295-91	SHORT		R115	1-216-295-91	SHORT	
JR527	1-216-295-91	SHORT		R201	1-216-113-00	RES-CHIP	470K 5% 1/10W
JR2003	1-216-295-91	SHORT		R202	1-216-113-00	RES-CHIP	470K 5% 1/10W
COIL				R203	1-216-022-00	RES-CHIP	75 5% 1/10W
L101	1-412-029-11	INDUCTOR	10μH	R204	1-216-081-00	RES-CHIP	22K 5% 1/10W
L102	1-412-032-11	INDUCTOR	100μH	R205	1-216-085-91	RES-CHIP	33K 5% 1/10W
L103	1-412-029-11	INDUCTOR	10μH	R208	1-215-924-00	METAL	15K 5% 3W
L501	1-409-955-11	INDUCTOR	8mH	R210	1-216-022-00	RES-CHIP	75 5% 1/10W
L502	1-412-552-11	INDUCTOR	2.2mH	R214	1-216-113-00	RES-CHIP	470K 5% 1/10W
L503	1-406-677-11	INDUCTOR	10mH	R215	1-216-113-00	RES-CHIP	470K 5% 1/10W
L504	1-412-533-21	INDUCTOR	47μH	R235	1-216-113-00	RES-CHIP	470K 5% 1/10W
L505		VARIANT (SEE VARIANT PARTS LIST)		R237	1-216-033-00	RES-CHIP	220 5% 1/10W
L506	1-406-677-11	INDUCTOR	10mH	R238	1-216-033-00	RES-CHIP	220 5% 1/10W
L507	1-412-552-11	INDUCTOR	2.2mH	R239	1-216-113-00	RES-CHIP	470K 5% 1/10W
 L510	1-412-528-11	INDUCTOR	18μH	R401	1-216-080-00	RES-CHIP	20K 5% 1/10W
L603	1-412-529-11	INDUCTOR	22μH	R402	1-216-073-91	RES-CHIP	10K 5% 1/10W
L604	1-412-525-31	INDUCTOR	10μH	R411	1-249-417-11	CARBON	1K 5% 1/4W
L605	1-412-529-11	INDUCTOR	22μH	R412	1-216-113-00	RES-CHIP	470K 5% 1/10W
PHOTO COUPLER				R413	1-216-113-00	RES-CHIP	470K 5% 1/10W
 PH601	8-749-010-64	PHOTO COUPLER PC123FY2		R414	1-249-417-11	CARBON	1K 5% 1/4W
IC LINK				R421	1-249-425-11	CARBON	4.7K 5% 1/4W
 PS401	1-532-686-21	LINK, IC 2.7A/150V		R422	1-249-389-11	CARBON	4.7 5% 1/4W
TRANSISTOR				R426	1-216-009-91	RES-CHIP	22 5% 1/10W
Q101	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R429	1-216-113-00	RES-CHIP	470K 5%


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COMMON PARTS LISTING FS SERIES





REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
R438		VARIANT (SEE VARIANT PARTS LIST)					⚠ R544	1-249-377-11	CARBON	0.47	5%	1/4W	
R440	1-216-097-11	RES-CHIP	100K	5%	1/10W		R545	1-215-873-00	METAL	4.7K	5%	1W	
R441	1-216-081-00	RES-CHIP	22K	5%	1/10W		⚠ R546	1-249-377-11	CARBON	0.47	5%	1/4W	
R442	1-208-758-11	METAL	100	0.50%	1/10W		R547	1-216-455-21	METAL	560	5%	2W	
R445	1-216-073-91	RES-CHIP	10K	5%	1/10W		R548	1-216-377-11	METAL	4.7	5%	2W	
R446	1-215-457-00	METAL	33K	1%	1/4W		⚠ R549	1-260-288-11	CARBON	0.47	5%	1/2W	
R447	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		⚠ R550	1-260-288-11	CARBON	0.47	5%	1/2W	
R454	1-216-025-11	RES-CHIP	100	5%	1/10W		R551	1-215-907-11	METAL	22	5%	3W	
R490		VARIANT (SEE VARIANT PARTS LIST)					⚠ R553	1-216-363-00	METAL	0.33	5%	2W	
R501	1-249-425-11	CARBON	4.7K	5%	1/4W		⚠ R554	1-249-429-11	CARBON	10K	5%	1/4W	
⚠ R502	1-216-455-21	METAL	560	5%	2W		⚠ R555	1-247-895-91	CARBON	470K	5%	1/4W	
⚠ R503	1-249-425-11	CARBON	4.7K	5%	1/4W		⚠ R556	1-249-417-11	CARBON	1K	5%	1/4W	
R505	1-249-401-11	CARBON	47	5%	1/4W		⚠ R557	1-247-895-91	CARBON	470K	5%	1/4W	
⚠ R506	1-215-883-11	METAL	33	5%	2W		⚠ R558	1-216-097-11	RES-CHIP	100K	5%	1/10W	
⚠ R507	1-260-328-11	CARBON	1K	5%	1/2W		⚠ R559	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R508	1-249-433-11	CARBON	22K	5%	1/4W		⚠ R560	1-215-879-11	METAL	47K	5%	1W	
⚠ R509	1-215-891-11	METAL	680	5%	2W		⚠ R561	1-249-406-11	CARBON	120	5%	1/4W	
R510	1-249-411-11	CARBON	330	5%	1/4W		⚠ R562	1-208-808-11	METAL	12K	0.50%	1/10W	
R511	1-249-377-11	CARBON	0.47	5%	1/4W		⚠ R563	1-249-433-11	CARBON	22K	5%	1/4W	
R512	1-215-910-00	METAL	68	5%	3W		R564		VARIANT (SEE VARIANT PARTS LIST)				
R513		VARIANT (SEE VARIANT PARTS LIST)					⚠ R565	1-249-429-11	CARBON	10K	5%	1/4W	
R514		VARIANT (SEE VARIANT PARTS LIST)					⚠ R566	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R516	1-249-425-11	CARBON	4.7K	5%	1/4W		⚠ R567	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R517	1-215-445-00	METAL	10K	1%	1/4W		⚠ R568	1-215-882-00	METAL	22	5%	2W	
R518		VARIANT (SEE VARIANT PARTS LIST)					R569	1-214-798-21	METAL	1.8	1%	1/2W	
R519		VARIANT (SEE VARIANT PARTS LIST)					R570	1-249-433-11	CARBON	22K	5%	1/4W	
⚠ R520	1-215-884-11	METAL	47	5%	2W		R571	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
⚠ R521	1-249-413-11	CARBON	470	5%	1/4W		R572	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R522	1-249-417-11	CARBON	1K	5%	1/4W		R601		VARIANT (SEE VARIANT PARTS LIST)				
R523	1-216-073-91	RES-CHIP	10K	5%	1/10W		⚠ R602	1-249-389-11	CARBON	4.7	5%	1/4W	
R524	1-249-429-11	CARBON	10K	5%	1/4W		R603	1-215-485-00	METAL	470K	1%	1/4W	
⚠ R525	1-208-804-11	METAL	8.2K	0.50%	1/10W		R607	1-215-859-00	METAL	22	5%	1W	
R526	1-208-814-91	METAL	22K	0.50%	1/10W		R608	1-240-205-11	CARBON	22M	5%	1/2W	
R528	1-215-429-00	METAL	2.2K	1%	1/4W		R609	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R529		VARIANT (SEE VARIANT PARTS LIST)					R610	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R530		VARIANT (SEE VARIANT PARTS LIST)					R611	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R532	1-215-437-00	METAL	4.7K	1%	1/4W		R612	1-216-045-00	RES-CHIP	680	5%	1/10W	
R533		VARIANT (SEE VARIANT PARTS LIST)					⚠ R613	1-219-512-11	CARBON	2.2M	5%	1/2W	
R534		VARIANT (SEE VARIANT PARTS LIST)					R614	1-249-413-11	CARBON	470	5%	1/4W	
R535	1-249-441-11	CARBON	100K	5%	1/4W		R615		VARIANT (SEE VARIANT PARTS LIST)				
⚠ R536	1-214-798-21	METAL	1.8	1%	1/2W		⚠ R616	1-260-302-51	CARBON	6.8	5%	1/2W	
R537		VARIANT (SEE VARIANT PARTS LIST)					R617	1-216-009-91	RES-CHIP	22	5%	1/10W	
⚠ R538	1-215-889-00	METAL	330	5%	2W		R618	1-249-440-11	CARBON	82K	5%	1/4W	
⚠ R539	1-249-385-11	CARBON	2.2	5%	1/4W		R619	1-249-437-11	CARBON	47K	5%	1/4W	
R540	1-215-445-00	METAL	10K	1%	1/4W		R620	1-249-417-11	CARBON	1K	5%	1/4W	
R541	1-249-429-11	CARBON	10K	5%	1/4W		⚠ R621	1-240-251-11	CEMENTED	6.8	5%	10W	
R543	1-247-887-00	CARBON	220K	5%	1/4W		R622	1-249-441-11	CARBON	100K	5%	1/4W	






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COMMON PARTS LISTING FS SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES			
	R623	1-260-324-11	CARBON	470	5%	1/2W
	R624	1-249-429-11	CARBON	10K	5%	1/4W
	R625	1-249-437-11	CARBON	47K	5%	1/4W
	R626	VARIANT (SEE VARIANT PARTS LIST)				
	R627	VARIANT (SEE VARIANT PARTS LIST)				
	R628	VARIANT (SEE VARIANT PARTS LIST)				
	R629	VARIANT (SEE VARIANT PARTS LIST)				
	R630	1-249-421-11	CARBON	2.2K	5%	1/4W
	R631	VARIANT (SEE VARIANT PARTS LIST)				
	R632	VARIANT (SEE VARIANT PARTS LIST)				
	R633	1-249-415-11	CARBON	680	5%	1/4W
	R634	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R635	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	R637	VARIANT (SEE VARIANT PARTS LIST)				
	R638	VARIANT (SEE VARIANT PARTS LIST)				
	R639	1-249-421-11	CARBON	2.2K	5%	1/4W
	R640	1-249-417-11	CARBON	1K	5%	1/4W
	R641	VARIANT (SEE VARIANT PARTS LIST)				
	R642	1-216-089-91	RES-CHIP	47K	5%	1/10W
	R643	1-249-419-11	CARBON	1.5K	5%	1/4W
	R644	1-247-843-11	CARBON	3.3K	5%	1/4W
	R645	1-215-898-11	METAL	10K	5%	2W
	R646	VARIANT (SEE VARIANT PARTS LIST)				
	R648	1-215-908-00	METAL	33	5%	3W
	R649	1-249-417-11	CARBON	1K	5%	1/4W
	R650	1-216-387-11	METAL	0.68	5%	3W
	R651	1-249-429-11	CARBON	10K	5%	1/4W
	R653	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R655	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R656	1-249-429-11	CARBON	10K	5%	1/4W
	R658	1-216-387-11	METAL	0.68	5%	3W
	R659	1-215-857-71	METAL	10	5%	1W
	R660	VARIANT (SEE VARIANT PARTS LIST)				
	R661	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	R662	VARIANT (SEE VARIANT PARTS LIST)				
	R663	1-216-081-00	RES-CHIP	22K	5%	1/10W
	R2001	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	R2002	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
	R2003	1-249-425-11	CARBON	4.7K	5%	1/4W
	R2004	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
	R2005	1-216-295-91	SHORT			
RELAY						
	RY601	1-755-198-11	RELAY			
	RY602	1-755-266-11	RELAY, AC POWER			
SWITCH						
	S2007	1-762-816-11	SWITCH TACTILE			
	S2008	1-762-816-11	SWITCH TACTILE			

REF. NO.	PART NO.	DESCRIPTION	VALUES
SWITCH			
SW501	1-572-707-11	SWITCH LEVER	
SW502	1-572-707-11	SWITCH LEVER	
TRANSFORMER			
	T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE
	T503	1-426-981-11	TRANSFORMER, FERRITE (PMT)
	T504	VARIANT (SEE VARIANT PARTS LIST)	
	T505	VARIANT (SEE VARIANT PARTS LIST)	
	T602	VARIANT (SEE VARIANT PARTS LIST)	
	T603	VARIANT (SEE VARIANT PARTS LIST)	
	T604	1-431-852-11	TRANSFORMER, CONVERTER (SRT)
THERMISTOR			
	TH501	1-800-193-00	THERMISTOR
	TH601	1-803-586-11	THERMISTOR, NTC
THERMISTOR			
	THP601	VARIANT (SEE VARIANT PARTS LIST)	
TUNER			
	TU101	8-598-542-20	TUNER, FSS BTF-WA412
VARISTOR			
	VDR601	VARIANT (SEE VARIANT PARTS LIST)	

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COMMON PARTS LISTING FV SERIES

A BOARD COMMON PARTS LISTING FV SERIES



- * A-1299-243-A A COMPLETE PC BOARD (KV-27FV17 ONLY)
- * A-1299-498-A A COMPLETE PC BOARD (KV-29FV17 ONLY)
- * A-1299-244-A A COMPLETE PC BOARD (KV-27FV17C ONLY)


The high-voltage leads associated with the FBT on the A board are not included and must be ordered separately. Order the following leads when requesting this A board:


⚠	1-251-374-13	HV CAP ASSY			
⚠	1-900-800-82	FOCUS LEAD			
⚠	1-900-803-22	G2 LEAD			
*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P		
	1-533-223-11	HOLDER, FUSE			
*	4-374-846-11	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			

CAPACITOR

C100	1-216-295-91	SHORT			
C101	1-216-295-91	SHORT			
C102	1-126-933-11	ELECT	100μF	20%	16V
C104	1-126-941-11	ELECT	470μF	20%	25V
C105	1-104-664-11	ELECT	47μF	20%	25V
C204	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C205	1-126-963-11	ELECT	4.7μF	20%	50V
C207	1-126-961-11	ELECT	2.2μF	20%	50V
C208	1-126-961-11	ELECT	2.2μF	20%	50V
C211	1-126-935-11	ELECT	470μF	20%	16V
C212	1-126-963-11	ELECT	4.7μF	20%	50V
C213	1-126-963-11	ELECT	4.7μF	20%	50V
C214	1-164-346-11	CERAMIC CHIP	1μF		16V
C215	1-164-346-11	CERAMIC CHIP	1μF		16V
C219	1-126-964-11	ELECT	10μF	20%	50V
C401	1-126-968-11	ELECT	100μF	20%	50V
C402	1-126-972-11	ELECT	1000μF	20%	50V
C403	1-126-957-11	ELECT	0.22μF	20%	50V
C420	1-164-222-91	CERAMIC CHIP	0.22μF		25V
C421	1-216-295-91	SHORT			
C435	1-164-222-91	CERAMIC CHIP	0.22μF		25V
C441	1-164-346-11	CERAMIC CHIP	1μF		16V
C442	1-126-963-11	ELECT	4.7μF	20%	50V
C496	1-216-295-91	SHORT			
C501	1-102-114-00	CERAMIC	470pF	10%	50V
C502	1-106-383-00	MYLAR	0.047μF	10%	200V
C503	1-102-228-00	CERAMIC	470pF	10%	500V

C504	1-102-228-00	CERAMIC	470pF	10%	500V
⚠ C505	1-162-116-00	CERAMIC	680pF	10%	2KV
C506	1-162-318-11	CERAMIC	0.001μF	10%	500V
⚠ C507	1-117-717-11	FILM	17000pF	3%	1.2KV
⚠ C508	1-137-150-11	MYLAR	0.01μF	10%	100V
⚠ C509	1-162-116-00	CERAMIC	680pF	10%	2KV
C510	1-107-649-11	ELECT	2.2μF	20%	250V
⚠ C511	1-115-522-11	FILM	1μF	5%	250V
⚠ C512	1-106-387-00	MYLAR	0.068μF	10%	200V
C513	1-104-987-11	MYLAR	0.001μF	10%	100V
C514	1-109-844-11	FILM	0.68μF	5%	250V
⚠ C515	1-162-116-00	CERAMIC	680pF	10%	2KV
⚠ C520	1-129-722-00	FILM	0.047μF	5%	630V
C521	1-164-646-11	CERAMIC	2200pF	10%	500V
C523	1-126-941-11	ELECT	470μF	20%	25V
C524	1-102-244-00	CERAMIC	220pF	10%	500V
C525	1-107-612-11	CERAMIC	100pF	5%	500V
C526	1-126-960-11	ELECT	1μF	20%	50V
C527	1-126-965-91	ELECT	22μF	20%	50V
C528	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C529	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C530	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C531	1-106-387-00	MYLAR	0.068μF	10%	200V
C533	1-126-941-11	ELECT	470μF	20%	25V
⚠ C534	1-126-964-11	ELECT	10μF	20%	50V
C535	1-126-959-11	ELECT	0.47μF	20%	50V
C536	1-102-228-00	CERAMIC	470pF	10%	500V
⚠ C537	1-126-965-91	ELECT	22μF	20%	50V
C539	1-107-662-11	ELECT	22μF	20%	250V
C540	1-107-645-11	ELECT	22μF	20%	160V
C541	1-126-969-11	ELECT	220μF	20%	50V
C542	1-126-967-11	ELECT	47μF	20%	50V
C543	1-136-169-00	FILM	0.22μF	5%	50V
⚠ C546	1-126-965-91	ELECT	22μF	20%	50V
⚠ C547	1-163-031-91	CERAMIC CHIP	0.01μF		50V
C548	1-104-710-11	ELECT	22μF		160V
C549	1-126-934-11	ELECT	220μF	20%	16V
C550	1-107-846-11	FILM	0.1μF	5%	250V
⚠ C551	1-137-417-11	MYLAR	0.0047μF	10%	200V
C553	1-107-662-11	ELECT	22μF	20%	250V
C554	1-102-110-00	CERAMIC	220pF	10%	50V
⚠ C555	1-117-629-11	FILM	2700pF	3%	1.2KV
C601	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C602	1-126-967-11	ELECT	47μF	20%	50V
C604	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V
⚠ C606	1-113-920-11	CERAMIC	0.0022μF	20%	250V
C607		VARIANT (SEE VARIANT PARTS LIST)			
C609	1-126-968-11	ELECT	100μF	20%	50V

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



COMMON PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C610	1-126-964-11	ELECT	10μF	20% 50V
⚠	C611	1-113-920-11	CERAMIC	0.0022μF	20% 250V
	C612	VARIANT (SEE VARIANT PARTS LIST)			
	C613	1-126-964-11	ELECT	10μF	20% 50V
	C614	1-130-495-00	MYLAR	0.1μF	5% 50V
	C615	1-130-202-00	FILM	0.022μF	10% 400V
	C616	1-107-824-11	CERAMIC	220pF	5% 1KV
	C617	1-125-893-11	FILM	680pF	3% 1.5KV
	C618	1-164-081-11	CERAMIC	470pF	10% 50V
	C619	1-136-356-11	MYLAR	470pF	5% 50V
	C620	1-104-665-11	ELECT	100μF	20% 25V
	C621	1-125-772-91	CERAMIC	1500pF	10% 2KV
	C622	1-164-625-11	CERAMIC	680pF	10% 500V
	C623	1-164-625-11	CERAMIC	680pF	10% 500V
	C624	1-131-867-51	ELECT	100μF	160V
	C625	1-135-572-51	ELECT	1000μF	20% 50V
	C626	1-135-573-51	ELECT	15000μF	20% 25V
	C627	1-136-189-00	MYLAR	0.1μF	10% 250V
	C628	1-104-665-11	ELECT	100μF	20% 25V
	C630	VARIANT (SEE VARIANT PARTS LIST)			
	C631	VARIANT (SEE VARIANT PARTS LIST)			
	C634	1-137-605-11	MYLAR	0.01μF	10% 250V
	C635	1-163-009-91	CERAMIC CHIP	0.001μF	10% 50V
	C636	1-126-970-11	ELECT	330μF	20% 50V
	C637	1-163-009-91	CERAMIC CHIP	0.001μF	10% 50V
	C638	1-163-005-91	CERAMIC CHIP	470pF	10% 50V
	C639	1-126-965-91	ELECT	22μF	20% 50V
	C641	1-107-679-91	ELECT	10μF	20% 450V
	C643	1-104-760-11	CERAMIC CHIP	0.047μF	10% 50V
	C647	1-161-964-91	CERAMIC	0.0047μF	250V
	C648	1-136-346-21	MYLAR	0.22μF	20% 125V
	C652	1-130-471-00	MYLAR	0.001μF	5% 50V
	C654	1-107-636-11	ELECT	10μF	20% 160V
⚠	C655	1-136-311-11	MYLAR	0.47μF	20% 125V
	C657	1-104-664-11	ELECT	47μF	20% 25V
	C658	1-135-572-51	ELECT	1000μF	20% 50V
	C659	1-135-573-51	ELECT	15000μF	20% 25V
	C660	VARIANT (SEE VARIANT PARTS LIST)			
	C661	VARIANT (SEE VARIANT PARTS LIST)			
	C2001	1-104-664-11	ELECT	47μF	20% 25V
CONNECTOR					
*	CN301	1-564-507-11	PLUG,CONNECTOR 4P		
*	CN406	1-564-507-11	PLUG,CONNECTOR 4P		
	CN460	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		
*	CN501	1-580-798-11	CONNECTOR PIN (DY) 6P		
	CN502	1-564-509-11	PLUG,CONNECTOR 6P		
*	CN503	1-564-512-11	PLUG,CONNECTOR 9P		
*	CN504	1-508-784-21	PIN,CONNECTOR (5MM PITCH) 1P		
REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	CN506	1-564-508-11	PLUG,CONNECTOR 5P		
*	CN515	1-564-510-11	PLUG,CONNECTOR 7P		
	CN602	1-580-843-11	PIN,CONNECTOR (POWER)		
*	CN603	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P		
	CN2001	1-764-334-11	PLUG,CONNECTOR 11P		
*	CN2003	1-564-506-11	PLUG,CONNECTOR 3P		
	CN2004	1-564-508-11	PLUG,CONNECTOR 5P		
*	CN2005	1-764-333-11	PLUG,CONNECTOR 10P		
*	CN2006	1-764-333-11	PLUG,CONNECTOR 10P		
*	CN2007	1-564-512-11	PLUG,CONNECTOR 9P		
*	CN2008	1-564-512-11	PLUG,CONNECTOR 9P		
DIODE					
	D201	8-719-108-12	DIODE RD9.1EW-T1		
	D202	8-719-108-12	DIODE RD9.1EW-T1		
	D203	8-719-108-12	DIODE RD9.1EW-T1		
	D204	8-719-982-22	DIODE MTZJ-T-77-30D		
	D205	8-719-108-12	DIODE RD9.1EW-T1		
	D206	8-719-108-12	DIODE RD9.1EW-T1		
	D208	8-719-108-12	DIODE RD9.1EW-T1		
	D209	8-719-069-60	DIODE UDZSTE-179.1B		
	D210	8-719-110-17	DIODE MTZJ-T-77-10B		
	D211	8-719-108-12	DIODE RD9.1EW-T1		
	D214	8-719-108-12	DIODE RD9.1EW-T1		
	D215	8-719-108-12	DIODE RD9.1EW-T1		
	D230	8-719-108-12	DIODE RD9.1EW-T1		
	D231	8-719-108-12	DIODE RD9.1EW-T1		
	D232	8-719-108-12	DIODE RD9.1EW-T1		
	D233	8-719-108-12	DIODE RD9.1EW-T1		
	D234	8-719-069-60	DIODE UDZSTE-179.1B		
	D235	8-719-069-60	DIODE UDZSTE-179.1B		
	D236	8-719-069-60	DIODE UDZSTE-179.1B		
	D401	8-719-110-17	DIODE MTZJ-T-77-10B		
⚠	D501	8-719-945-80	DIODE ERC06-15S		
	D502	8-719-908-03	DIODE GP08DPKG23		
	D503	8-719-908-03	DIODE GP08DPKG23		
⚠	D504	8-719-945-80	DIODE ERC06-15S		
	D505	8-719-312-10	DIODE RU4AM-T3		
	D506	8-719-302-43	DIODE RGP10GPKG3		
	D507	8-719-991-33	DIODE 1SS133T-77		
	D508	8-719-991-33	DIODE 1SS133T-77		
	D509	8-719-109-89	DIODE MTZJ-T-77-5.6C		
	D510	8-719-908-03	DIODE GP08DPKG23		
	D511	8-719-302-43	DIODE RGP10GPKG23		
	D512	8-719-404-50	DIODE MA111-TX		
	D513	8-719-979-85	DIODE RGP15GPKG23		
	D514	8-719-979-85	DIODE RGP15GPKG23		
	D515	8-719-404-50	DIODE MA111-TX		
⚠	D516	8-719-991-33	DIODE 1SS133T-77		

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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COMMON PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
⚠ D517	8-719-991-33	DIODE 1SS133T-77		FB605	1-412-911-11	FERRITE	0μH
⚠ D518	8-719-921-63	DIODE MTZJ-T-77-7.5X		FB606	1-412-911-11	FERRITE	0μH
⚠ D519	8-719-979-84	DIODE EGP20DPKG23		FB607	1-412-911-11	FERRITE	0μH
⚠ D520	8-719-404-50	DIODE MA111-TX		FB608	1-412-911-11	FERRITE	0μH
D521	8-719-991-33	DIODE 1SS133T-77		FB609	1-412-911-11	FERRITE	0μH
				FB610	1-412-911-11	FERRITE	0μH
D522	8-719-404-50	DIODE MA111-TX		IC			
D601	8-719-991-33	DIODE 1SS133T-77		⚠ IC402	8-759-573-40	IC TDA8580Q/N1	
D602	8-719-991-33	DIODE 1SS133T-77		⚠ IC501	8-759-700-07	IC NJM2903M-TE2	
D603	8-719-982-26	DIODE MTZJ-T-77-33B		IC502	8-759-980-58	IC TDA8172	
D604	8-719-028-72	DIODE RGP02-17PKG23		IC601		VARIANT (SEE VARIANT PARTS LIST)	
⚠ D605	8-719-510-53	DIODE D4SB60L-F		⚠ IC602	8-749-016-47	IC EA135-F12	
⚠ D606	8-719-108-18	DIODE TF541M		IC603	8-759-653-07	IC PQ09RD21	
D607	8-719-991-33	DIODE 1SS133T-77		IC604	8-759-924-12	IC LM7805CT	
D608	8-719-110-53	DIODE MTZJ-T-77-20B		JACK			
D609	8-719-311-31	DIODE RU-1P		J201	1-794-119-11	TERMINAL BLOCK, S 4P	
D610	8-719-210-21	DIODE 11EQS04-NTA1B		J203	1-794-118-11	JACK BLOCK, PIN 3P	
D611	8-719-046-74	DIODE 10ELS2N-TA1B2		J204	1-794-118-11	JACK BLOCK, PIN 3P	
D612	8-719-110-17	DIODE MTZJ-T-77-10B		J205	1-794-116-11	JACK BLOCK, PIN 2P	
D613	8-719-046-74	DIODE 10ELS2N-TA1B2		J206	1-794-117-11	JACK BLOCK, PIN 3P	
D614	8-719-046-74	DIODE 10ELS2N-TA1B2		J402	1-794-116-11	JACK BLOCK, PIN 2P	
D615	8-719-312-10	DIODE RU4AM-T3		CHIP CONDUCTOR			
D616	8-719-510-37	DIODE D5LC20U		JR001	1-216-295-91	SHORT	
D617	8-719-110-31	DIODE MTZJ-T-77-12C		JR002	1-216-295-91	SHORT	
D618	8-719-991-33	DIODE 1SS133T-77		JR402	1-216-295-91	SHORT	
D619	8-719-110-17	DIODE MTZJ-T-77-10B		JR403	1-216-295-91	SHORT	
D620	8-719-510-37	DIODE D5LC20U		JR404	1-216-295-91	SHORT	
D622	8-719-077-76	DIODE D2SB60A-F04		JR405	1-216-295-91	SHORT	
D623	8-719-081-70	DIODE BA159DGPCKG3		JR410	1-216-295-91	SHORT	
D624	8-719-991-33	DIODE 1SS133T-77		JR411	1-216-295-91	SHORT	
D625	8-719-991-33	DIODE 1SS133T-77		JR471	1-164-222-91	CERAMIC CHIP	0.22μF 25V
D626	8-719-046-74	DIODE 10ELS2N-TA1B2		JR472	1-216-295-91	SHORT	
D627	8-719-110-03	DIODE MTZJ-T-77-7.5A		JR501	1-216-295-91	SHORT	
D628	8-719-510-48	DIODE D1N20R-TA		JR502	1-216-295-91	SHORT	
D2002	8-719-110-17	DIODE MTZJ-T-77-10B		JR503	1-216-295-91	SHORT	
D2004	8-719-921-44	DIODE MTZJ-T-77-5.1C		JR505	1-216-295-91	SHORT	
D2005	8-719-921-44	DIODE MTZJ-T-77-5.1C		JR522	1-216-295-91	SHORT	
FUSE				JR523	1-216-295-91	SHORT	
F601		VARIANT (SEE VARIANT PARTS LIST)		JR526	1-216-295-91	SHORT	
FERRITE BEAD				JR527	1-216-295-91	SHORT	
FB501	1-410-397-21	FERRITE	1.1μH	JR2003	1-216-295-91	SHORT	
FB502	1-410-397-21	FERRITE	1.1μH	COIL			
FB503	1-410-397-21	FERRITE	1.1μH	L101	1-412-029-11	INDUCTOR	10μH
FB600	1-412-911-11	FERRITE	0μH	L102	1-412-032-11	INDUCTOR	100μH
FB601	1-412-911-11	FERRITE	0μH	L103	1-412-029-11	INDUCTOR	10μH
FB602	1-412-911-11	FERRITE	0μH	L501	1-409-955-11	INDUCTOR	8mH
FB603	1-412-911-11	FERRITE	0μH	L502	1-412-552-11	INDUCTOR	2.2mH
FB604	1-412-911-11	FERRITE	0μH				


NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.


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COMMON PARTS LISTING FV SERIES






















REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L503	1-406-677-11	INDUCTOR	10mH	R204	1-216-081-00	RES-CHIP	22K 5% 1/10W
L504	1-412-533-21	INDUCTOR	47 μ H	R205	1-216-085-91	RES-CHIP	33K 5% 1/10W
L505	1-406-978-11	INDUCTOR	150 μ H	R208	1-215-924-00	METAL OXIDE	15K 5% 3W
L506	1-406-677-11	INDUCTOR	10mH	R210	1-216-022-00	RES-CHIP	75 5% 1/10W
L507	1-412-552-11	INDUCTOR	2.2mH	R214	1-216-113-00	RES-CHIP	470K 5% 1/10W
\triangle L510	1-412-528-11	INDUCTOR	18 μ H	R215	1-216-113-00	RES-CHIP	470K 5% 1/10W
L603	1-412-529-11	INDUCTOR	22 μ H	R218		VARIANT (SEE VARIANT PARTS LIST)	
L604	1-412-525-31	INDUCTOR	10 μ H	R221	1-216-033-00	RES-CHIP	220 5% 1/10W
L605	1-412-529-11	INDUCTOR	22 μ H	R224	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
PHOTO COUPLER				R225	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
\triangle PH601	8-749-010-64	PHOTO COUPLER PC123FY2		R226	1-216-022-00	RES-CHIP	75 5% 1/10W
IC LINK				R227	1-216-113-00	RES-CHIP	470K 5% 1/10W
\triangle PS401	1-532-686-21	LINK, IC 2.7A/150V		R228	1-216-113-00	RES-CHIP	470K 5% 1/10W
TRANSISTOR				R229	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q101	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R231	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
Q201	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R232	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
Q205	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R401	1-216-080-00	RES-CHIP	20K 5% 1/10W
Q206	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R402	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q401	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R403	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
Q402	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R404	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
Q410	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R407	1-208-758-11	METAL CHIP	100 0.50% 1/10W
Q411	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R408	1-208-758-11	METAL CHIP	100 0.50% 1/10W
Q501	8-729-140-50	TRANSISTOR 2SC3209LK-TP		R411	1-249-417-11	CARBON	1K 5% 1/4W
\triangle Q502	8-729-046-07	TRANSISTOR 2SD2578-YB		R412	1-216-113-00	RES-CHIP	470K 5% 1/10W
\triangle Q503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R413	1-216-113-00	RES-CHIP	470K 5% 1/10W
\triangle Q504	8-729-053-87	TRANSISTOR KTC4370A		R414	1-249-417-11	CARBON	1K 5% 1/4W
\triangle Q505	8-729-200-17	TRANSISTOR 2SA10910-TPE2		R421	1-249-425-11	CARBON	4.7K 5% 1/4W
\triangle Q506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R422	1-249-389-11	CARBON	4.7 5% 1/4W
\triangle Q507	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R426	1-216-009-91	RES-CHIP	22 5% 1/10W
Q601	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW		R429	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q602	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R430	1-216-049-11	RES-CHIP	1K 5% 1/10W
\triangle Q603	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R431	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q604	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R433	1-216-113-00	RES-CHIP	470K 5% 1/10W
\triangle Q605	8-729-046-40	TRANSISTOR 2SK2663		R436	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
Q606	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R437	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q607	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW		R438	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
Q608	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R440	1-216-097-11	RES-CHIP	100K 5% 1/10W
Q609	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R441	1-216-081-00	RES-CHIP	22K 5% 1/10W
RESISTOR				R442	1-208-758-11	METAL CHIP	100 0.50% 1/10W
R105	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W	R445	1-216-073-91	RES-CHIP	10K 5% 1/10W
R107	1-216-025-11	RES-CHIP	100 5% 1/10W	R446	1-215-457-00	METAL	33K 1% 1/4W
R108	1-216-025-11	RES-CHIP	100 5% 1/10W	R447	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R115	1-216-295-91	SHORT		R454	1-216-025-11	RES-CHIP	100 5% 1/10W
R201	1-216-113-00	RES-CHIP	470K 5% 1/10W	R490	1-216-073-91	RES-CHIP	10K 5% 1/10W
R202	1-216-113-00	RES-CHIP	470K 5% 1/10W	R501	1-249-425-11	CARBON	4.7K 5% 1/4W
R203	1-216-022-00	RES-CHIP	75 5% 1/10W	\triangle R502	1-216-455-21	METAL OXIDE	560 5% 2W
				\triangle R503	1-249-425-11	CARBON	4.7K 5% 1/4W



















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A component identified by this  symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



COMMON PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R505	1-249-401-11	CARBON	47	5% 1/4W
	R506	1-215-883-11	METAL OXIDE	33	5% 2W
	R507	1-260-328-11	CARBON	1K	5% 1/2W
	R508	1-249-433-11	CARBON	22K	5% 1/4W
	R509	1-215-891-11	METAL OXIDE	680	5% 2W
	R510	1-249-411-11	CARBON	330	5% 1/4W
	R511	1-249-377-11	CARBON	0.47	5% 1/4W
	R512	1-215-910-00	METAL OXIDE	68	5% 3W
	R513	1-215-907-11	METAL OXIDE	22	5% 3W
	R514	1-216-683-11	METAL CHIP	22K	0.50% 1/10W
	R516	1-249-425-11	CARBON	4.7K	5% 1/4W
	R517	1-215-445-00	METAL	10K	1% 1/4W
	R518	1-249-427-11	CARBON	6.8K	5% 1/4W
	R519	1-249-427-11	CARBON	6.8K	5% 1/4W
	R520	1-215-884-11	METAL OXIDE	47	5% 2W
	R521	1-249-413-11	CARBON	470	5% 1/4W
	R522	1-249-417-11	CARBON	1K	5% 1/4W
	R523	1-216-073-91	RES-CHIP	10K	5% 1/10W
	R524	1-249-429-11	CARBON	10K	5% 1/4W
	R525	1-208-804-11	METAL CHIP	8.2K	0.50% 1/10W
	R526	1-208-814-91	METAL CHIP	22K	0.50% 1/10W
	R528	1-215-429-00	METAL	2.2K	1% 1/4W
	R529	1-216-109-00	RES-CHIP	330K	5% 1/10W
	R530	1-216-077-91	RES-CHIP	15K	5% 1/10W
	R532	1-215-437-00	METAL	4.7K	1% 1/4W
	R533	1-215-457-00	METAL	33K	1% 1/4W
	R534	1-215-458-00	METAL	36K	1% 1/4W
	R535	1-249-441-11	CARBON	100K	5% 1/4W
	R536	1-214-798-21	METAL	1.8	1% 1/2W
	R538	1-215-889-00	METAL OXIDE	330	5% 2W
	R539	1-249-385-11	CARBON	2.2	5% 1/4W
	R540	1-215-445-00	METAL	10K	1% 1/4W
	R541	1-249-429-11	CARBON	10K	5% 1/4W
	R543	1-247-887-00	CARBON	220K	5% 1/4W
	R544	1-249-377-11	CARBON	0.47	5% 1/4W
	R545	1-215-873-00	METAL OXIDE	4.7K	5% 1W
	R546	1-249-377-11	CARBON	0.47	5% 1/4W
	R547	1-216-455-21	METAL OXIDE	560	5% 2W
	R548	1-216-377-11	METAL OXIDE	4.7	5% 2W
	R549	1-260-288-11	CARBON	0.47	5% 1/2W
	R550	1-260-288-11	CARBON	0.47	5% 1/2W
	R551	1-215-907-11	METAL OXIDE	22	5% 3W
	R553	1-216-363-00	METAL OXIDE	0.33	5% 2W
	R554	1-249-429-11	CARBON	10K	5% 1/4W
	R555	1-247-895-91	CARBON	470K	5% 1/4W
	R556	1-249-417-11	CARBON	1K	5% 1/4W
	R557	1-247-895-91	CARBON	470K	5% 1/4W
	R558	1-216-097-11	RES-CHIP	100K	5% 1/10W
	R559	1-216-073-91	RES-CHIP	10K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R560	1-215-879-11	METAL OXIDE	47K	5% 1W
	R561	1-249-406-11	CARBON	120	5% 1/4W
	R562	1-208-808-11	METAL CHIP	12K	0.50% 1/10W
	R563	1-249-433-11	CARBON	22K	5% 1/4W
	 R564	1-208-836-11	METAL CHIP	180K	0.50% 1/10W
	R565	1-249-429-11	CARBON	10K	5% 1/4W
	R566	1-216-073-91	RES-CHIP	10K	5% 1/10W
	R567	1-216-073-91	RES-CHIP	10K	5% 1/10W
	R568	1-215-882-00	METAL OXIDE	22	5% 2W
	R569	1-214-798-21	METAL	1.8	1% 1/2W
	R570	1-249-433-11	CARBON	22K	5% 1/4W
	R571	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
	R572	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
	R601	VARIANT (SEE VARIANT PARTS LIST)			
	R602	1-249-389-11	CARBON	4.7	5% 1/4W
	R603	1-215-485-00	METAL	470K	1% 1/4W
	R607	1-215-859-00	METAL OXIDE	22	5% 1W
	R608	1-240-205-11	CARBON	22M	5% 1/2W
	R609	1-216-049-11	RES-CHIP	1K	5% 1/10W
	R610	1-216-073-91	RES-CHIP	10K	5% 1/10W
	R611	1-216-089-91	RES-CHIP	47K	5% 1/10W
	R612	1-216-045-00	RES-CHIP	680	5% 1/10W
	R613	1-219-512-11	CARBON	2.2M	5% 1/2W
	R614	1-249-413-11	CARBON	470	5% 1/4W
	R615	VARIANT (SEE VARIANT PARTS LIST)			
	R616	1-260-302-51	CARBON	6.8	5% 1/2W
	R617	1-216-009-91	RES-CHIP	22	5% 1/10W
	R618	1-249-440-11	CARBON	82K	5% 1/4W
	R619	1-249-437-11	CARBON	47K	5% 1/4W
	R620	1-249-417-11	CARBON	1K	5% 1/4W
	R621	1-240-251-11	CEMENTED	6.8	5% 10W
	R622	1-249-441-11	CARBON	100K	5% 1/4W
	R623	1-260-324-11	CARBON	470	5% 1/2W
	R624	1-249-429-11	CARBON	10K	5% 1/4W
	R625	1-249-437-11	CARBON	47K	5% 1/4W
	R626	1-202-933-61	FUSIBLE	0.1	10% 1/2W
	R627	VARIANT (SEE VARIANT PARTS LIST)			
	R628	VARIANT (SEE VARIANT PARTS LIST)			
	R629	VARIANT (SEE VARIANT PARTS LIST)			
	R630	1-249-421-11	CARBON	2.2K	5% 1/4W
	R631	VARIANT (SEE VARIANT PARTS LIST)			
	R632	1-217-611-00	METAL	0.1	10% 2W
	R633	1-249-415-11	CARBON	680	5% 1/4W
	R634	1-216-073-91	RES-CHIP	10K	5% 1/10W
	R635	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
	R637	VARIANT (SEE VARIANT PARTS LIST)			
	R638	VARIANT (SEE VARIANT PARTS LIST)			


NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.


NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



COMMON PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
R639	1-249-421-11	CARBON	2.2K	5%	1/4W	VDR601	VARIANT (SEE VARIANT PARTS LIST)		
R640	1-249-417-11	CARBON	1K	5%	1/4W				
⚠ R641	1-216-369-00	METAL OXIDE	1	5%	2W				
R642	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R643	1-249-419-11	CARBON	1.5K	5%	1/4W				
R644	1-247-843-11	CARBON	3.3K	5%	1/4W				
R645	1-215-898-11	METAL OXIDE	10K	5%	2W				
R646		VARIANT (SEE VARIANT PARTS LIST)							
R648	1-216-398-11	METAL OXIDE	5.6	5%	3W				
R649	1-249-417-11	CARBON	1K	5%	1/4W				
R650	1-216-387-11	METAL OXIDE	0.68	5%	3W				
R651	1-249-429-11	CARBON	10K	5%	1/4W				
R653	1-216-049-11	RES-CHIP	1K	5%	1/10W				
R655	1-216-049-11	RES-CHIP	1K	5%	1/10W				
R656	1-249-429-11	CARBON	10K	5%	1/4W				
R658	1-216-387-11	METAL OXIDE	0.68	5%	3W				
R659	1-215-857-71	METAL OXIDE	10	5%	1W				
R660		VARIANT (SEE VARIANT PARTS LIST)							
R661	1-216-057-00	RES-CHIP	2.2K	5%	1/10W				
R662		VARIANT (SEE VARIANT PARTS LIST)							
R663	1-216-081-00	RES-CHIP	22K	5%	1/10W				
R664	1-216-398-11	METAL OXIDE	5.6	5%	3W				
R2003	1-249-425-11	CARBON	4.7K	5%	1/4W				
<u>RELAY</u>									
⚠ RY601	1-755-198-11	RELAY							
⚠ RY602	1-755-266-11	RELAY, AC POWER							
<u>SWITCH</u>									
SW501	1-572-707-11	SWITCH LEVER							
SW502	1-572-707-11	SWITCH LEVER							
<u>TRANSFORMER</u>									
⚠ T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE							
⚠ T503	1-426-981-11	TRANSFORMER, FERRITE (PMT)							
⚠ T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR							
⚠ T505	1-453-310-11	FBT ASSY NX-4521//X4J4							
T602		VARIANT (SEE VARIANT PARTS LIST)							
T603		VARIANT (SEE VARIANT PARTS LIST)							
⚠ T604	1-431-852-11	TRANSFORMER, CONVERTER (SRT)							
<u>THERMISTOR</u>									
TH501	1-800-193-00	THERMISTOR							
⚠ TH601	1-803-586-11	THERMISTOR, NTC							
<u>THERMISTOR</u>									
⚠ THP601	1-803-540-11	THERMISTOR							
<u>TUNER</u>									
⚠ TU101	8-598-542-20	TUNER, FSS BTF-WA412							

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A component identified by this  symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.


VARIANT PARTS LISTING




The parts on this page belong to the following model(s) only:
KV-27FS13

REF. NO.	PART NO.	DESCRIPTION	VALUES		
A BOARD VARIANT PARTS LIST (KV-27FS13)					
*	A-1299-502-A	A COMPLETE PC BOARD			
CAPACITOR					
⚠	C507	1-117-717-11	FILM	17000pF	3% 1.2KV
⚠	C511	1-115-522-11	FILM	1μF	5% 250V
	C514	1-109-844-11	FILM	0.68μF	5% 250V
⚠	C520	1-129-722-00	FILM	0.047μF	5% 630V
	C530	1-164-161-11	CERAMIC CHIP	0.0022μF	10% 50V
	C548	1-104-710-11	ELECT	22μF	160V
	C550	1-107-846-11	FILM	0.1μF	5% 250V
⚠	C555	1-117-629-11	FILM	2700pF	3% 1.2KV
⚠	C607	1-136-311-11	MYLAR	0.47μF	20% 125V
⚠	C612	1-128-717-11	ELECT	680μF	20% 250V
	C625	1-135-412-51	ELECT	1000μF	20% 25V
	C630	1-127-795-51	CERAMIC	3300pF	20% 250V
	C631	1-113-924-11	CERAMIC	4700pF	20% 250V
	C658	1-135-412-51	ELECT	1000μF	20% 25V
FERRITE BEAD					
	FB605	1-412-911-11	FERRITE	0μH	
IC					
	IC502	8-759-980-58	IC TDA8172		
⚠	IC601	8-749-018-43	IC STR-F6426		
COIL					
	L505	1-406-978-11	INDUCTOR	150μH	
TRANSISTOR					
⚠	Q502	8-729-046-07	TRANSISTOR 2SD2578-YB		
RESISTOR					
	R436	1-216-069-00	RES-CHIP	6.8K	5% 1/10W
	R437	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
	R438	1-216-069-00	RES-CHIP	6.8K	5% 1/10W
	R490	1-208-798-11	METAL CHIP	4.7K	1% 1/10W
⚠	R513	1-215-907-11	METAL OXIDE	22	5% 3W
	R514	1-216-683-11	METAL CHIP	22K	1% 1/10W
	R518	1-249-427-11	CARBON	6.8K	5% 1/4W
	R519	1-249-427-11	CARBON	6.8K	5% 1/4W
	R529	1-216-109-00	RES-CHIP	330K	5% 1/10W
	R530	1-216-077-91	RES-CHIP	15K	5% 1/10W
	R533	1-215-457-00	METAL	33K	1% 1/4W
	R534	1-215-458-00	METAL	36K	1% 1/4W
⚠	■R564	1-208-836-11	METAL CHIP	180K	1% 1/10W
⚠	R601	1-219-513-11	CARBON	4.7M	5% 1/2W
⚠	R626	1-220-926-11	FUSIBLE	0.47	10% 1/2W
	R627	1-215-483-00	METAL	390K	1% 1/4W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R632	1-216-361-00	METAL OXIDE	0.22	5% 2W
	R638	1-249-399-11	CARBON	33	5% 1/4W
	R641	1-216-362-11	METAL OXIDE	0.27	5% 2W
	R646	1-249-419-11	CARBON	1.5K	5% 1/4W
	R660	1-215-924-00	METAL OXIDE	15K	5% 3W
<u>TRANSFORMER</u>					
	T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR		
	T505	1-453-310-11	FBT ASSY NX-4521//X4J4		
	T602	1-435-617-11	TRANSFORMER, LINE FILTER		
	T603	1-433-806-21	TRANSFORMER, REGULAT		
<u>THERMISTOR</u>					
	THP601	1-803-540-11	THERMISTOR		
<u>VARISTOR</u>					
	VDR601	1-803-585-11	VARISTOR ENE271D-10A		

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.


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VARIANT PARTS LISTING



The parts on this page belong to the following model(s) only:
KV-27FS17

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
A BOARD VARIANT PARTS LIST (KV-27FS17)													
*	A-1299-503-A		A COMPLETE PC BOARD										
CAPACITOR													
⚠	C507	1-117-717-11	FILM	17000pF	3%	1.2KV							
⚠	C511	1-115-522-11	FILM	1μF	5%	250V							
	C514	1-109-844-11	FILM	0.68μF	5%	250V							
⚠	C520	1-129-722-00	FILM	0.047μF	5%	630V							
	C530	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V							
	C548	1-104-710-11	ELECT	22μF		160V							
	C550	1-107-846-11	FILM	0.1μF	5%	250V							
⚠	C555	1-117-629-11	FILM	2700pF	3%	1.2KV							
⚠	C607	1-136-311-11	MYLAR	0.47μF	20%	125V							
⚠	C612	1-128-717-11	ELECT	680μF	20%	250V							
	C615	1-130-202-00	FILM	0.022μF	10%	400V							
	C616	1-107-824-11	CERAMIC	220pF	5%	1KV							
	C625	1-135-412-51	ELECT	1000μF	20%	25V							
	C630	1-127-795-51	CERAMIC	3300pF	20%	250V							
	C631	1-113-924-11	CERAMIC	4700pF	20%	250V							
	C658	1-135-412-51	ELECT	1000μF	20%	25V							
DIODE													
	D609	8-719-311-31	DIODE RU-1P										
FERRITE BEAD													
	FB605	1-412-911-11	FERRITE	0μH									
	FB607	1-412-911-11	FERRITE	0μH									
	FB608	1-412-911-11	FERRITE	0μH									
IC													
	IC502	8-759-980-58	IC TDA8172										
⚠	IC601	8-749-018-43	IC STR-F6426										
COIL													
	L505	1-406-978-11	INDUCTOR	150μH									
TRANSISTOR													
⚠	Q502	8-729-046-07	TRANSISTOR 2SD2578-YB										
RESISTOR													
	R436	1-216-069-00	RES-CHIP	6.8K	5%	1/10W							
	R437	1-216-065-91	RES-CHIP	4.7K	5%	1/10W							
	R438	1-216-069-00	RES-CHIP	6.8K	5%	1/10W							
	R490	1-208-798-11	METAL CHIP	4.7K	1%	1/10W							
⚠	R513	1-215-907-11	METAL OXIDE	22	5%	3W							
	R514	1-216-683-11	METAL CHIP	22K	0.50%	1/10W							
	R518	1-249-427-11	CARBON	6.8K	5%	1/4W							
	R519	1-249-427-11	CARBON	6.8K	5%	1/4W							
	R529	1-216-109-00	RES-CHIP	330K	5%	1/10W							
	R530	1-216-077-91	RES-CHIP	15K	5%	1/10W							
	R533	1-215-457-00	METAL	33K	1%	1/4W							
	R534	1-215-458-00	METAL	36K	1%	1/4W							
⚠	⚠R564	1-208-836-11	METAL CHIP	180K	0.50%	1/10W							
⚠	R601	1-219-513-11	CARBON	4.7M	5%	1/2W							
⚠	R626	1-220-926-11	FUSIBLE	0.47	10%	1/2W							
	R627	1-215-483-00	METAL	390K	1%	1/4W							
	R631	1-215-929-11	METAL OXIDE	100K	5%	3W							
⚠	R632	1-216-361-00	METAL OXIDE	0.22	5%	2W							
	R638	1-249-399-11	CARBON	33	5%	1/4W							
⚠	R641	1-216-362-11	METAL OXIDE	0.27	5%	2W							
	R646	1-249-419-11	CARBON	1.5K	5%	1/4W							
⚠	R660	1-215-924-00	METAL OXIDE	15K	5%	3W							
TRANSFORMER													
⚠	T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR										
⚠	T505	1-453-310-11	FBT ASSY NX-4521//X4J4										
⚠	T602	1-435-617-11	TRANSFORMER, LINE FILTER										
⚠	T603	1-433-806-21	TRANSFORMER, REGULAT										
THERMISTOR													
⚠	THP601	1-803-540-11	THERMISTOR										
VARISTOR													
⚠	VDR601	1-803-585-11	VARISTOR ENE271D-10A										

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.


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VARIANT PARTS LISTING

A

The parts on this page belong to the following model(s) only:
KV-32FS13

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
A BOARD VARIANT PARTS LIST (KV-32FS13)													
*	A-1299-516-A	A COMPLETE PC BOARD											
CAPACITOR													
⚠	C507	1-117-652-11	FILM	22000pF	3%	1.2KV		R537	1-215-373-31	METAL	10	1%	1/4W
⚠	C511	1-115-521-11	FILM	0.82μF	5%	250V	⚠	⚠R564	1-208-824-11	METAL CHIP	56K	1%	1/10W
	C514	1-115-521-11	FILM	0.82μF	5%	250V	⚠	R601	1-219-513-11	CARBON	4.7M	5%	1/2W
	C517	1-107-846-11	FILM	0.1μF	5%	250V	⚠	R626	1-202-933-61	FUSIBLE	0.1	10%	1/2W
⚠	C520	1-130-118-91	FILM	0.051μF	5%	400V		R627	1-215-483-00	METAL	390K	1%	1/4W
	C530	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V	⚠	R632	1-217-611-00	METAL	0.1	10%	2W
	C548	1-107-995-11	ELECT	100μF		160V		R638	1-249-399-11	CARBON	33	5%	1/4W
	C550	1-117-667-11	FILM	0.47μF	5%	250V	⚠	R641	1-216-369-00	METAL OXIDE	1	5%	2W
⚠	C555	1-117-635-11	FILM	4700pF	3%	1.2KV		R646	1-249-419-11	CARBON	1.5K	5%	1/4W
⚠	C607	1-136-311-11	MYLAR	0.47μF	20%	125V	⚠	R660	1-215-924-00	METAL OXIDE	15K	5%	3W
⚠	C612	1-113-611-11	ELECT(BLOCK)	820μF	20%	250V	TRANSFORMER						
	C625	1-135-412-51	ELECT	1000μF	20%	25V	⚠	T504	1-435-098-11	TRANSFORMER, HORIZONTAL LINEAR			
	C630	1-127-795-51	CERAMIC	3300pF	20%	250V	⚠	T505	1-453-338-11	FBT ASSY, NX-4600//X4J4			
	C631	1-113-924-11	CERAMIC	4700pF	20%	250V	⚠	T602	1-435-617-11	TRANSFORMER, LINE FILTER			
	C658	1-135-412-51	ELECT	1000μF	20%	25V	⚠	T603	1-435-403-11	TRANSFORMER, CONVERTER (S.R.T)			
CONNECTOR													
*	CN604	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P										
FERRITE BEAD													
	FB605	1-412-911-11	FERRITE	0μH									
IC													
	IC502	8-759-192-71	IC STV9379										
⚠	IC601	8-749-018-43	IC STR-F6426										
COIL													
	L505	1-406-976-11	INDUCTOR	68μH									
TRANSISTOR													
⚠	Q502	8-729-045-26	TRANSISTOR 2SD2580-YB										
RESISTOR													
	R436	1-216-073-91	RES-CHIP	10K	5%	1/10W							
	R437	1-216-073-91	RES-CHIP	10K	5%	1/10W							
	R438	1-216-073-91	RES-CHIP	10K	5%	1/10W							
	R490	1-216-073-91	RES-CHIP	10K	5%	1/10W							
⚠	R513	1-215-905-11	METAL OXIDE	10	5%	3W							
	R514	1-216-071-00	RES-CHIP	8.2K	5%	1/10W							
	R518	1-215-439-00	METAL	5.6K	1%	1/4W							
	R519	1-215-439-00	METAL	5.6K	1%	1/4W							
	R529	1-216-107-00	RES-CHIP	270K	5%	1/10W							
	R530	1-208-812-11	METAL CHIP	18K	0.50%	1/10W							
	R533	1-215-453-00	METAL	22K	1%	1/4W							
	R534	1-215-457-00	METAL	33K	1%	1/4W							

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

A component identified by this  symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.


VARIANT PARTS LISTING




The parts on this page belong to the following model(s) only:
KV-32FS17/34FS17

REF. NO.	PART NO.	DESCRIPTION	VALUES			
A BOARD VARIANT PARTS LIST (KV-32FS17/34FS17)						
*	A-1299-504-A	A COMPLETE PC BOARD				
CAPACITOR						
⚠	C507	1-117-652-11	FILM	22000pF	3%	1.2KV
⚠	C511	1-115-521-11	FILM	0.82μF	5%	250V
	C514	1-115-521-11	FILM	0.82μF	5%	250V
	C517	1-107-846-11	FILM	0.1μF	5%	250V
⚠	C520	1-130-118-91	FILM	0.051μF	5%	400V
	C530	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V
	C548	1-107-995-11	ELECT	100μF		160V
	C550	1-117-667-11	FILM	0.47μF	5%	250V
⚠	C555	1-117-635-11	FILM	4700pF	3%	1.2KV
⚠	C607	1-136-311-11	MYLAR	0.47μF	20%	125V
⚠	C612	1-113-611-11	ELECT(BLOCK)	820μF	20%	250V
	C625	1-135-412-51	ELECT	1000μF	20%	25V
	C630	1-127-795-51	CERAMIC	3300pF	20%	250V
	C631	1-113-924-11	CERAMIC	4700pF	20%	250V
	C658	1-135-412-51	ELECT	1000μF	20%	25V
CONNECTOR						
*	CN604	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P			
FERRITE BEAD						
	FB605	1-412-911-11	FERRITE	0μH		
	FB607	1-412-911-11	FERRITE	0μH		
	FB608	1-412-911-11	FERRITE	0μH		
IC						
	IC502	8-759-192-71	IC STV9379			
⚠	IC601	8-749-018-43	IC STR-F6426			
COIL						
	L505	1-406-976-11	INDUCTOR	68μH		
TRANSISTOR						
⚠	Q502	8-729-045-26	TRANSISTOR 2SD2580-YB			
RESISTOR						
	R436	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R437	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R438	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R490	1-216-073-91	RES-CHIP	10K	5%	1/10W
⚠	R513	1-215-905-11	METAL OXIDE	10	5%	3W
	R514	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
	R518	1-215-439-00	METAL	5.6K	1%	1/4W
	R519	1-215-439-00	METAL	5.6K	1%	1/4W
	R529	1-216-107-00	RES-CHIP	270K	5%	1/10W
	R530	1-208-812-11	METAL CHIP	18K	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES			
	R533	1-215-453-00	METAL	22K	1%	1/4W
	R534	1-215-457-00	METAL	33K	1%	1/4W
	R537	1-215-373-31	METAL	10	1%	1/4W
⚠	⚠R564	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
⚠	R601	1-219-513-11	CARBON	4.7M	5%	1/2W
⚠	R626	1-202-933-61	FUSIBLE	0.1	10%	1/2W
	R627	1-215-483-00	METAL	390K	1%	1/4W
⚠	R632	1-217-611-00	METAL	0.1	10%	2W
	R638	1-249-399-11	CARBON	33	5%	1/4W
⚠	R641	1-216-369-00	METAL OXIDE	1	5%	2W
	R646	1-249-419-11	CARBON	1.5K	5%	1/4W
⚠	R660	1-215-924-00	METAL OXIDE	15K	5%	3W
TRANSFORMER						
⚠	T504	1-435-098-11	TRANSFORMER, HORIZONTAL LINEAR			
⚠	T505	1-453-338-11	FBT ASSY, NX-4600//X4J4			
⚠	T602	1-435-617-11	TRANSFORMER, LINE FILTER			
⚠	T603	1-435-403-11	TRANSFORMER, CONVERTER (S.R.T)			
THERMISTOR						
⚠	THP601	1-803-629-11	THERMISTOR, POSITIVE			
VARISTOR						
⚠	VDR601	1-803-585-11	VARISTOR ENE271D-10A			

























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VARIANT PARTS LISTING



The parts on this page belong to the following model(s) only:
KV-34FS13C

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES								
A BOARD VARIANT PARTS LIST (KV-34FS13C)																	
*	A-1299-506-A		A COMPLETE PC BOARD														
	CAPACITOR																
		C507	1-117-652-11	FILM	22000pF	3%	1.2KV	 	R564	1-208-824-11	METAL CHIP	56K	0.50%	1/10W			
		C511	1-115-521-11	FILM	0.82μF	5%	250V		R615	1-218-265-11	METAL	8.2M	5%	1W			
		C514	1-115-521-11	FILM	0.82μF	5%	250V		R626	1-202-933-61	FUSIBLE	0.1	10%	1/2W			
		C517	1-107-846-11	FILM	0.1μF	5%	250V		R627	1-215-479-00	METAL	270K	1%	1/4W			
		C520	1-130-118-91	FILM	0.051μF	5%	400V		R628	1-215-479-00	METAL	270K	1%	1/4W			
		C530	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		R629	1-215-929-11	METAL OXIDE	100K	5%	3W			
		C548	1-107-995-11	ELECT	100μF		160V		R632	1-217-611-00	METAL	0.1	10%	2W			
		C550	1-117-667-11	FILM	0.47μF	5%	250V		R637	1-216-485-11	METAL OXIDE	5.6K	5%	3W			
		C555	1-117-635-11	FILM	4700pF	3%	1.2KV		R638	1-249-402-11	CARBON	56	5%	1/4W			
		C615	1-130-202-00	FILM	0.022μF	10%	400V		R641	1-216-369-00	METAL OXIDE	1	5%	2W			
		C616	1-107-824-11	CERAMIC	220pF	5%	1KV		R646	1-249-418-11	CARBON	1.2K	5%	1/4W			
		C625	1-135-572-51	ELECT	1000μF	20%	50V		R660	1-216-485-11	METAL OXIDE	5.6K	5%	3W			
		C658	1-135-572-51	ELECT	1000μF	20%	50V		R662	1-216-485-11	METAL OXIDE	5.6K	5%	3W			
		C660	1-128-714-11	ELECT	330μF	20%	400V	TRANSFORMER									
		C661	1-128-714-11	ELECT	330μF	20%	400V		T504	1-435-098-11	TRANSFORMER, HORIZONTAL LINEAR						
	CONNECTOR								T505	1-453-338-11	FBT ASSY, NX-4600//X4J4						
	*	CN604	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P										T602	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)	
		DIODE								T603	1-435-402-11	TRANSFORMER, CONVERTER (SRT)					
		D609	8-719-311-31	DIODE RU-1P									THERMISTOR				
		FERRITE BEAD								THP601	1-803-540-11	THERMISTOR					
		FB605	1-410-397-21	FERRITE	1.1μH			VARISTOR									
		IC								VDR601	1-803-967-11	VARISTOR (ENE621D-14A)					
		IC502	8-759-192-71	IC STV9379													
			IC601	8-749-014-48	IC STR-F6656												
		COIL															
		L505	1-406-976-11	INDUCTOR	68μH												
		TRANSISTOR															
			Q502	8-729-045-26	TRANSISTOR 2SD2580-YB												
		RESISTOR															
			R436	1-216-073-91	RES-CHIP	10K	5%	1/10W									
			R437	1-216-073-91	RES-CHIP	10K	5%	1/10W									
			R438	1-216-073-91	RES-CHIP	10K	5%	1/10W									
			R490	1-216-073-91	RES-CHIP	10K	5%	1/10W									
			R513	1-215-905-11	METAL OXIDE	10	5%	3W									
			R514	1-216-071-00	RES-CHIP	8.2K	5%	1/10W									
			R518	1-215-439-00	METAL	5.6K	1%	1/4W									
			R519	1-215-439-00	METAL	5.6K	1%	1/4W									
		R529	1-216-107-00	RES-CHIP	270K	5%	1/10W										

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VARIANT PARTS LISTING



The parts on this page belong to the following model(s) only:
KV-27FV17

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
A BOARD VARIANT PARTS LIST (KV-27FV17)							
*	A-1299-243-A	A COMPLETE PC BOARD					
	<u>CAPACITOR</u>						
⚠ C607	1-136-311-11	MYLAR	0.47μF 20% 125V				
⚠ C612	1-113-611-11	ELECT(BLOCK)	820μF 20% 250V				
C630	1-113-923-11	CERAMIC	0.0033μF 20% 250V				
C631	1-113-924-11	CERAMIC	0.0047μF 20% 250V				
	<u>FUSE</u>						
⚠ F601	1-576-193-11	FUSE	6.3A/125V				
	<u>IC</u>						
⚠ IC601	8-749-018-43	IC STR-F6426					
	<u>RESISTOR</u>						
R218	1-216-049-11	RES-CHIP	1K 5% 1/10W				
⚠ R601	1-219-513-11	CARBON	4.7M 5% 1/2W				
R627	1-215-483-00	METAL	390K 1% 1/4W				
R631	1-215-929-11	METAL OXIDE	100K 5% 3W				
R638	1-249-399-11	CARBON	33 5% 1/4W				
R646	1-249-419-11	CARBON	1.5K 5% 1/4W				
⚠ R660	1-215-924-00	METAL OXIDE	15K 5% 3W				
	<u>TRANSFORMER</u>						
⚠ T602	1-435-617-11	TRANSFORMER, LINE FILTER					
⚠ T603	1-435-403-11	TRANSFORMER, CONVERTER (S.R.T)					
	<u>VARISTOR</u>						
⚠ VDR601	1-803-585-11	VARISTOR ENE271D-10A					

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VARIANT PARTS LISTING



The parts on this page belong to the following model(s) only:
KV-29FV17

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
A BOARD VARIANT PARTS LIST (KV-29FV17)													
*	A-1299-498-A	A COMPLETE PC BOARD											
CAPACITOR													
⚠	C607	1-136-311-11	MYLAR	0.47μF	20%	125V							
⚠	C612	1-113-611-11	ELECT(BLOCK)	820μF	20%	250V							
FUSE													
⚠	F601	1-576-193-11	FUSE 6.3A/125V										
IC													
⚠	IC601	8-749-018-43	IC STR-F6426										
RESISTOR													
	R218	1-208-758-11	METAL CHIP	100	0.50%	1/10W							
⚠	R601	1-219-513-11	CARBON	4.7M	5%	1/2W							
	R627	1-215-483-00	METAL	390K	1%	1/4W							
	R631	1-215-929-11	METAL OXIDE	100K	5%	3W							
	R638	1-249-399-11	CARBON	33	5%	1/4W							
	R646	1-249-419-11	CARBON	1.5K	5%	1/4W							
⚠	R660	1-215-924-00	METAL OXIDE	15K	5%	3W							
TRANSFORMER													
⚠	T602	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)										
⚠	T603	1-435-403-11	TRANSFORMER, CONVERTER (S.R.T)										
VARISTOR													
⚠	VDR601	1-803-585-11	VARISTOR ENE271D-10A										

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VARIANT PARTS LISTING



The parts on this page belong to the following model(s) only:
KV-29FV17C

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES
A BOARD VARIANT PARTS LIST (KV-29FV17C)										
*	A-1299-244-A	A COMPLETE PC BOARD								
CAPACITOR										
⚠	C660	1-128-714-11	ELECT	330μF	20%	400V				
⚠	C661	1-128-714-11	ELECT	330μF	20%	400V				
FUSE										
⚠	F601	1-532-506-51	FUSE 6.3A/250V							
IC										
⚠	IC601	8-749-018-44	IC STR-F6456							
RESISTOR										
	R218	1-216-049-11	RES-CHIP	1K	5%	1/10W				
⚠	R615	1-218-265-11	METAL	8.2M	5%	1W				
	R627	1-215-479-00	METAL	270K	1%	1/4W				
⚠	R637	1-216-485-11	METAL OXIDE	5.6K	5%	3W				
	R638	1-249-402-11	CARBON	56	5%	1/4W				
	R646	1-249-418-11	CARBON	1.2K	5%	1/4W				
⚠	R660	1-216-485-11	METAL OXIDE	5.6K	5%	3W				
⚠	R662	1-216-485-11	METAL OXIDE	5.6K	5%	3W				
TRANSFORMER										
⚠	T602	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)							
⚠	T603	1-435-402-11	TRANSFORMER, CONVERTER (SRT)							
VARISTOR										
⚠	VDR601	1-803-967-11	VARISTOR (ENE621D-14A)							

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COMMON PARTS LISTING FS SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
JR355	1-216-295-91	SHORT		Q369	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR378	1-216-295-91	SHORT		Q370	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR379	1-216-295-91	SHORT		Q375	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR391	1-216-295-91	SHORT		Q378		VARIANT (SEE VARIANT PARTS LIST)	
JR399	1-216-295-91	SHORT		Q379		VARIANT (SEE VARIANT PARTS LIST)	
JR402	1-216-295-91	SHORT		Q380		VARIANT (SEE VARIANT PARTS LIST)	
JR501	1-216-295-91	SHORT		Q387	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR502	1-216-295-91	SHORT		Q388	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
COIL				Q389	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L002	1-412-064-11	INDUCTOR	100μH	RESISTOR			
L003	1-412-064-11	INDUCTOR	100μH	R001	1-216-043-91	RES-CHIP	560 5% 1/10W
L040	1-408-963-11	INDUCTOR	2.7μH	R002	1-216-041-00	RES-CHIP	470 5% 1/10W
L150		VARIANT (SEE VARIANT PARTS LIST)		R003	1-247-807-31	CARBON	100 5% 1/4W
L151		VARIANT (SEE VARIANT PARTS LIST)		R004	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
L301	1-412-029-11	INDUCTOR	10μH	R005	1-216-295-91	SHORT	
L302	1-412-031-11	INDUCTOR	47μH	R006	1-216-025-11	RES-CHIP	100 5% 1/10W
L303	1-414-856-11	INDUCTOR	10μH	R007	1-216-025-11	RES-CHIP	100 5% 1/10W
L304	1-414-856-11	INDUCTOR	10μH	R008	1-216-049-11	RES-CHIP	1K 5% 1/10W
L305	1-412-029-11	INDUCTOR	10μH	R009	1-216-121-11	RES-CHIP	1M 5% 1/10W
L308	1-412-064-11	INDUCTOR	100μH	R010	1-216-033-00	RES-CHIP	220 5% 1/10W
L310	1-412-064-11	INDUCTOR	100μH	R011	1-216-033-00	RES-CHIP	220 5% 1/10W
L350	1-414-856-11	INDUCTOR	10μH	R012	1-216-045-00	RES-CHIP	680 5% 1/10W
L351	1-414-856-11	INDUCTOR	10μH	R013	1-249-417-11	CARBON	1K 5% 1/4W
TRANSISTOR				R014	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q001	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R015	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R016	1-216-041-00	RES-CHIP	470 5% 1/10W
Q003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R017	1-208-798-11	METAL	4.7K 0.50% 1/10W
Q004	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R018	1-249-409-11	CARBON	220 5% 1/4W
Q006	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R019	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q082	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R020	1-216-033-00	RES-CHIP	220 5% 1/10W
Q151		VARIANT (SEE VARIANT PARTS LIST)		R021	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q152		VARIANT (SEE VARIANT PARTS LIST)		R022	1-249-409-11	CARBON	220 5% 1/4W
Q302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R023	1-249-429-11	CARBON	10K 5% 1/4W
Q303	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R024	1-249-409-11	CARBON	220 5% 1/4W
Q305	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R025	1-249-426-11	CARBON	5.6K 5% 1/4W
Q310	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R026	1-249-426-11	CARBON	5.6K 5% 1/4W
Q349	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R027	1-249-426-11	CARBON	5.6K 5% 1/4W
Q350	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R028	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q351	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R029	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q352	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R030	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q354	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R031	1-216-355-11	METAL	3.3 5% 1W
Q355	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R032	1-216-033-00	RES-CHIP	220 5% 1/10W
Q356	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R033	1-216-033-00	RES-CHIP	220 5% 1/10W
Q358	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R034	1-216-033-00	RES-CHIP	220 5% 1/10W
Q359	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R035	1-216-033-00	RES-CHIP	220 5% 1/10W
Q365	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R036	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q368	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R037	1-249-409-11	CARBON	220 5% 1/4W
				R038	1-216-049-11	RES-CHIP	1K 5% 1/10W



COMMON PARTS LISTING FS SERIES


REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R039	1-216-045-00	RES-CHIP	680	5%	1/10W	R159		VARIANT (SEE VARIANT PARTS LIST)			
R040	1-249-409-11	CARBON	220	5%	1/4W	R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R041	1-216-045-00	RES-CHIP	680	5%	1/10W	R253	1-216-049-11	RES-CHIP	1K	5%	1/10W
R042	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R256	1-216-073-91	RES-CHIP	10K	5%	1/10W
R043	1-249-417-11	CARBON	1K	5%	1/4W	R257	1-216-049-11	RES-CHIP	1K	5%	1/10W
R044	1-216-033-00	RES-CHIP	220	5%	1/10W	R258	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R045	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R259	1-249-429-11	CARBON	10K	5%	1/4W
R046	1-216-033-00	RES-CHIP	220	5%	1/10W	R260	1-249-409-11	CARBON	220	5%	1/4W
R047	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R261	1-216-113-00	RES-CHIP	470K	5%	1/10W
R048		VARIANT (SEE VARIANT PARTS LIST)				R262	1-247-807-31	CARBON	100	5%	1/4W
R050	1-216-033-00	RES-CHIP	220	5%	1/10W	R263	1-216-025-11	RES-CHIP	100	5%	1/10W
R051	1-216-033-00	RES-CHIP	220	5%	1/10W	R264		VARIANT (SEE VARIANT PARTS LIST)			
R052	1-249-417-11	CARBON	1K	5%	1/4W	R266		VARIANT (SEE VARIANT PARTS LIST)			
R054	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R267	1-216-049-11	RES-CHIP	1K	5%	1/10W
R055	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R268	1-216-045-00	RES-CHIP	680	5%	1/10W
R056	1-208-798-11	METAL	4.7K	0.50%	1/10W	R269	1-216-049-11	RES-CHIP	1K	5%	1/10W
R057	1-216-097-11	RES-CHIP	100K	5%	1/10W	R270		VARIANT (SEE VARIANT PARTS LIST)			
R058	1-216-097-11	RES-CHIP	100K	5%	1/10W	R271		VARIANT (SEE VARIANT PARTS LIST)			
R060	1-249-409-11	CARBON	220	5%	1/4W	R272		VARIANT (SEE VARIANT PARTS LIST)			
R061	1-216-033-00	RES-CHIP	220	5%	1/10W	R273	1-216-073-91	RES-CHIP	10K	5%	1/10W
R064	1-216-295-91	SHORT				R274	1-216-295-91	SHORT			
R069		VARIANT (SEE VARIANT PARTS LIST)				R275	1-216-081-00	RES-CHIP	22K	5%	1/10W
R070	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R276	1-216-085-91	RES-CHIP	33K	5%	1/10W
R071	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R277		VARIANT (SEE VARIANT PARTS LIST)			
R073	1-249-425-11	CARBON	4.7K	5%	1/4W	R279	1-247-807-31	CARBON	100	5%	1/4W
R074	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R280	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R077	1-216-097-11	RES-CHIP	100K	5%	1/10W	R281	1-208-798-11	METAL	4.7K	0.50%	1/10W
R086	1-216-045-00	RES-CHIP	680	5%	1/10W	R282	1-208-790-11	METAL	2.2K	0.50%	1/10W
R087	1-216-045-00	RES-CHIP	680	5%	1/10W	R283	1-216-689-11	RES-CHIP	39K	5%	1/10W
R088	1-216-045-00	RES-CHIP	680	5%	1/10W	R300	1-216-295-91	SHORT			
R091	1-216-073-91	RES-CHIP	10K	5%	1/10W	R301	1-216-022-00	RES-CHIP	75	5%	1/10W
R092	1-208-798-11	METAL	4.7K	0.50%	1/10W	R303	1-216-073-91	RES-CHIP	10K	5%	1/10W
R093	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R304	1-247-807-31	CARBON	100	5%	1/4W
R094	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R305	1-216-295-91	SHORT			
R095	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R306	1-216-025-11	RES-CHIP	100	5%	1/10W
R096	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R308	1-216-022-00	RES-CHIP	75	5%	1/10W
R097	1-249-414-11	CARBON	560	5%	1/4W	R310	1-249-417-11	CARBON	1K	5%	1/4W
R099	1-216-089-91	RES-CHIP	47K	5%	1/10W	R311	1-216-025-11	RES-CHIP	100	5%	1/10W
R100		VARIANT (SEE VARIANT PARTS LIST)				R312	1-249-417-11	CARBON	1K	5%	1/4W
R101		VARIANT (SEE VARIANT PARTS LIST)				R313	1-216-049-11	RES-CHIP	1K	5%	1/10W
R150		VARIANT (SEE VARIANT PARTS LIST)				R314		VARIANT (SEE VARIANT PARTS LIST)			
R151		VARIANT (SEE VARIANT PARTS LIST)				R316	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R154		VARIANT (SEE VARIANT PARTS LIST)				R317	1-247-807-31	CARBON	100	5%	1/4W
R155		VARIANT (SEE VARIANT PARTS LIST)				R318	1-216-091-00	RES-CHIP	56K	5%	1/10W
R156		VARIANT (SEE VARIANT PARTS LIST)				R319	1-216-081-00	RES-CHIP	22K	5%	1/10W
R157		VARIANT (SEE VARIANT PARTS LIST)				R320	1-216-025-11	RES-CHIP	100	5%	1/10W
R158		VARIANT (SEE VARIANT PARTS LIST)				R321	1-216-043-91	RES-CHIP	560	5%	1/10W


VARIANT PARTS LISTING

MA

The parts on this page belong to the following model(s) only:
KV-27FS13

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
MA BOARD VARIANT PARTS LIST (KV-27FS13)											
*	A-1304-200-A	MA (VAR) MOUNTED PC BOARD									
CAPACITOR											
C380	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C381	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C382	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C389	1-115-185-11	CERAMIC CHIP	0.033μF	10%	50V						
RESISTOR											
R277	1-216-129-00	RES-CHIP	2.2M	5%	1/10W						
R398	1-216-091-00	RES-CHIP	56K	5%	1/10W						
R399	1-216-109-00	RES-CHIP	330K	5%	1/10W						

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VARIANT PARTS LISTING

MA

The parts on this page belong to the following model(s) only:
KV-27FS17

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES					
MA BOARD VARIANT PARTS LIST (KV-27FS17)						R158	1-216-025-11	RES-CHIP	100	5%	1/10W			
*	A-1304-198-A	MA (VAR) MOUNTED PC BOARD	CAPACITOR			R159	1-216-025-11	RES-CHIP	100	5%	1/10W			
			C005	1-164-005-11	CERAMIC CHIP	0.47μF	25V	R264	1-216-081-00	RES-CHIP	22K	5%	1/10W	
			C151	1-126-960-11	ELECT	1μF	20% 50V	R266	1-216-081-00	RES-CHIP	22K	5%	1/10W	
			C153	1-163-017-00	CERAMIC CHIP	0.0047μF	10% 50V	R270	1-216-081-00	RES-CHIP	22K	5%	1/10W	
			C154	1-126-967-11	ELECT	47μF	20% 50V	R271	1-216-081-00	RES-CHIP	22K	5%	1/10W	
			C155	1-126-964-11	ELECT	10μF	20% 50V	R272	1-216-081-00	RES-CHIP	22K	5%	1/10W	
			C156	1-104-664-11	ELECT	47μF	20% 25V	R277	1-216-129-00	RES-CHIP	2.2M	5%	1/10W	
			C157	1-126-968-11	ELECT	100μF	20% 50V	R314	1-216-081-00	RES-CHIP	22K	5%	1/10W	
			C345	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	R398	1-216-091-00	RES-CHIP	56K	5%	1/10W	
			C346	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	R399	1-216-109-00	RES-CHIP	330K	5%	1/10W	
			C347	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	R434	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
			C364	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V	R435	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
			C389	1-115-185-11	CERAMIC CHIP	0.033μF	10% 50V	TUNER						
			C451	1-163-038-91	CERAMIC CHIP	0.1μF	25V	⚠ TU150	8-598-501-30	TUNER, FSS BTF-FA402				
			C452	1-163-038-91	CERAMIC CHIP	0.1μF	25V							
			C453	1-163-038-91	CERAMIC CHIP	0.1μF	25V							
			C454	1-163-038-91	CERAMIC CHIP	0.1μF	25V							
			CONNECTOR											
			* CN304	1-564-507-11	PLUG,CONNECTOR 4P									
			* CN305	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P									
			* CN401	1-564-505-11	PLUG,CONNECTOR 2P									
			DIODE											
			D303	8-719-991-33	DIODE 1SS133T-77									
			COIL											
			L150	1-412-058-11	INDUCTOR	10μH								
			L151	1-412-064-11	INDUCTOR	100μH								
			TRANSISTOR											
			Q151	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX									
			Q152	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX									
			Q378	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX									
			Q379	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX									
			Q380	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX									
			RESISTOR											
			R048	1-216-025-11	RES-CHIP	100	5%	1/10W						
			R069	1-249-409-11	CARBON	220	5%	1/4W						
			R100	1-216-295-91	SHORT									
			R101	1-216-295-91	SHORT									
			R150	1-216-053-00	RES-CHIP	1.5K	5%	1/10W						
			R151	1-216-025-11	RES-CHIP	100	5%	1/10W						
			R154	1-216-043-91	RES-CHIP	560	5%	1/10W						
			R155	1-216-043-91	RES-CHIP	560	5%	1/10W						
			R156	1-216-085-91	RES-CHIP	33K	5%	1/10W						
			R157	1-216-081-00	RES-CHIP	22K	5%	1/10W						


VARIANT PARTS LISTING


MA

The parts on this page belong to the following model(s) only:

KV-32FS13/34FS13C

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
MA BOARD VARIANT PARTS LIST (KV-32FS13/34FS13C)											
*	A-1304-203-A	MA (VAR) MOUNTED PC BOARD									
CAPACITOR											
C380	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C381	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C382	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C389	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V						
RESISTOR											
R277	1-216-133-91	RES-CHIP	3.3M	5%	1/10W						
R398	1-216-109-00	RES-CHIP	330K	5%	1/10W						
R399	1-216-689-11	RES-CHIP	39K	5%	1/10W						

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VARIANT PARTS LISTING

MA

The parts on this page belong to the following model(s) only:
KV-32FS17/34FS17

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES					
MA BOARD VARIANT PARTS LIST (KV-32FS17/34FS17)						R157	1-216-081-00	RES-CHIP	22K	5%	1/10W			
*	A-1304-196-A	MA (VAR) MOUNTED PC BOARD	CAPACITOR			R158	1-216-025-11	RES-CHIP	100	5%	1/10W			
			C005	1-164-005-11	CERAMIC CHIP	0.47μF	25V	R159	1-216-025-11	RES-CHIP	100	5%	1/10W	
			C151	1-126-960-11	ELECT	1μF	20%	50V	R264	1-216-081-00	RES-CHIP	22K	5%	1/10W
			C153	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	R266	1-216-081-00	RES-CHIP	22K	5%	1/10W
			C154	1-126-967-11	ELECT	47μF	20%	50V						
			C155	1-126-964-11	ELECT	10μF	20%	50V	R270	1-216-081-00	RES-CHIP	22K	5%	1/10W
			C156	1-104-664-11	ELECT	47μF	20%	25V	R271	1-216-081-00	RES-CHIP	22K	5%	1/10W
			C157	1-126-968-11	ELECT	100μF	20%	50V	R272	1-216-081-00	RES-CHIP	22K	5%	1/10W
			C345	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	R277	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
			C346	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	R314	1-216-081-00	RES-CHIP	22K	5%	1/10W
			C347	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
			C389	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V	R398	1-216-109-00	RES-CHIP	330K	5%	1/10W
			C451	1-163-038-91	CERAMIC CHIP	0.1μF		25V	R399	1-216-689-11	RES-CHIP	39K	5%	1/10W
			C452	1-163-038-91	CERAMIC CHIP	0.1μF		25V	R434	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
			C453	1-163-038-91	CERAMIC CHIP	0.1μF		25V	R435	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
			C454	1-163-038-91	CERAMIC CHIP	0.1μF		25V	TUNER					
						⚠ TU150	8-598-501-30	TUNER, FSS BTF-FA402						
*	CN304	1-564-507-11	PLUG,CONNECTOR 4P											
*	CN305	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P											
*	CN401	1-564-505-11	PLUG,CONNECTOR 2P											
DIODE														
	D303	8-719-991-33	DIODE 1SS133T-77											
COIL														
	L150	1-412-058-11	INDUCTOR		10μH									
	L151	1-412-064-11	INDUCTOR		100μH									
TRANSISTOR														
	Q151	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
	Q152	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX											
	Q378	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
	Q379	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
	Q380	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
RESISTOR														
	R048	1-216-025-11	RES-CHIP		100	5%	1/10W							
	R069	1-249-409-11	CARBON		220	5%	1/4W							
	R100	1-216-295-91	SHORT											
	R101	1-216-295-91	SHORT											
	R150	1-216-053-00	RES-CHIP		1.5K	5%	1/10W							
	R151	1-216-025-11	RES-CHIP		100	5%	1/10W							
	R154	1-216-043-91	RES-CHIP		560	5%	1/10W							
	R155	1-216-043-91	RES-CHIP		560	5%	1/10W							
	R156	1-216-085-91	RES-CHIP		33K	5%	1/10W							



COMPLETE PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
<div><div>MA</div><div>* A-1304-202-A</div></div>	MA (VAR) MOUNTED PC BOARD (KV-27FV17/29FV17/29FV17C ONLY)					C097	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V	
						C099	1-126-960-11	ELECT	1μF	20%	50V	
						C151	1-126-960-11	ELECT	1μF	20%	50V	
						C153	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
						C154	1-126-967-11	ELECT	47μF	20%	50V	
						C155	1-126-964-11	ELECT	10μF	20%	50V	
						C156	1-104-664-11	ELECT	47μF	20%	25V	
						C157	1-126-968-11	ELECT	100μF	20%	50V	
						C306	1-164-346-11	CERAMIC CHIP	1μF		16V	
					C312	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C313	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C315	1-104-664-11	ELECT	47μF	20%	25V		
					C316	1-163-243-11	CERAMIC CHIP	47pF	5%	50V		
					C318	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C319	1-126-767-11	ELECT	1000μF	20%	16V		
					C320	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C321	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C322	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C323	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C325	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C326	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C328	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C329	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C330	1-126-960-11	ELECT	1μF	20%	50V		
					C331	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C334	1-163-003-11	CERAMIC CHIP	330pF	10%	50V		
					C335	1-126-963-11	ELECT	4.7μF	20%	50V		
					C338	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C339	1-126-960-11	ELECT	1μF	20%	50V		
					C341	1-163-233-91	CERAMIC CHIP	18pF	5%	50V		
					C345	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C346	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C347	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C348	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C352	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C353	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
					C356	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C357	1-104-664-11	ELECT	47μF	20%	25V		
					C358	1-104-664-11	ELECT	47μF	20%	25V		
					C359	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C360	1-126-959-11	ELECT	0.47μF	20%	50V		
					C361	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C362	1-104-664-11	ELECT	47μF	20%	25V		
					C363	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C364	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C365	1-137-194-81	FILM	0.47μF	5%	50V		
					C367	1-163-005-91	CERAMIC CHIP	470pF	10%	50V		
					C370	1-126-933-11	ELECT	100μF	20%	16V		
					C003	1-126-959-11	ELECT	0.47μF	20%	50V		
					C005	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
					C006	1-126-964-11	ELECT	10μF	20%	50V		
					C009	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C010	1-163-035-00	CERAMIC CHIP	0.047μF		50V		
					C011	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C012	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		
					C015	1-163-231-11	CERAMIC CHIP	15pF	5%	50V		
					C016	1-163-231-11	CERAMIC CHIP	15pF	5%	50V		
					C017	1-126-960-11	ELECT	1μF	20%	50V		
					C019	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C020	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C021	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C022	1-163-135-00	CERAMIC CHIP	560pF	5%	50V		
					C027	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		
					C028	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C032	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
					C033	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C034	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V		
					C037	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V		
					C038	1-126-935-11	ELECT	470μF	20%	16V		
					C039	1-126-964-11	ELECT	10μF	20%	50V		
					C040	1-163-229-11	CERAMIC CHIP	12pF	5%	50V		
					C041	1-163-237-11	CERAMIC CHIP	27pF	5%	50V		
					C042	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C043	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		
					C044	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		
					C045	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V		
					C046	1-104-664-11	ELECT	47μF	20%	25V		
					C047	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C048	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C051	1-126-943-11	ELECT	2200μF	20%	25V		
					C060	1-163-005-91	CERAMIC CHIP	470pF	10%	50V		
					C062	1-126-959-11	ELECT	0.47μF	20%	50V		
					C063	1-137-194-81	FILM	0.47μF	5%	50V		
					C064	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V		
					C070	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		
					C071	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V		
					C076	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C077	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		
					C091	1-115-185-11	CERAMIC CHIP	0.033μF	10%	50V		
					C093	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		



NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

COMPLETE PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C371	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	JR003	1-216-295-91	SHORT	
C377	1-126-963-11	ELECT	4.7 μ F 20% 50V	JR005	1-216-295-91	SHORT	
C389	1-115-185-11	CERAMIC CHIP	0.033 μ F 10% 50V	JR006	1-216-295-91	SHORT	
C395	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	JR007	1-216-295-91	SHORT	
C396	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	JR008	1-216-295-91	SHORT	
C398	1-126-964-11	ELECT	10 μ F 20% 50V	JR010	1-216-295-91	SHORT	
C451	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	JR011	1-216-295-91	SHORT	
C452	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	JR090	1-216-295-91	SHORT	
C453	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	JR100	1-216-295-91	SHORT	
C454	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	JR101	1-216-295-91	SHORT	
CONNECTOR				JR296	1-216-295-91	SHORT	
CN001	1-764-334-11	PLUG,CONNECTOR 11P		JR297	1-216-295-91	SHORT	
* CN002	1-560-124-00	PLUG,CONNECTOR (2.5MM) 4P		JR298	1-216-295-91	SHORT	
* CN003	1-564-512-11	PLUG,CONNECTOR 9P		JR299	1-216-295-91	SHORT	
* CN004	1-564-512-11	PLUG,CONNECTOR 9P		JR300	1-216-295-91	SHORT	
* CN005	1-764-333-11	PLUG,CONNECTOR 10P		JR310	1-216-295-91	SHORT	
* CN006	1-764-333-11	PLUG,CONNECTOR 10P		JR311	1-216-295-91	SHORT	
* CN302	1-564-507-11	PLUG,CONNECTOR 4P		JR355	1-216-295-91	SHORT	
* CN304	1-564-507-11	PLUG,CONNECTOR 4P		JR359	1-216-295-91	SHORT	
CN305	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		JR378	1-216-295-91	SHORT	
* CN306	1-691-616-21	CONNECTOR, BOARD TO BOARD 15P		JR379	1-216-295-91	SHORT	
* CN309	1-564-506-11	PLUG,CONNECTOR 3P		JR399	1-216-295-91	SHORT	
CN401	1-564-505-11	PLUG,CONNECTOR 2P		JR402	1-216-295-91	SHORT	
DIODE				JR501	1-216-295-91	SHORT	
\triangle D001	8-719-069-54	DIODE UDZSTE-175.1B		JR502	1-216-295-91	SHORT	
D002	8-719-110-17	DIODE MTZJ-T-77-10B		COIL			
D003	8-719-404-50	DIODE MA111-TX		L002	1-412-064-11	INDUCTOR	100 μ H
D004	8-719-069-54	DIODE UDZSTE-175.1B		L003	1-412-064-11	INDUCTOR	100 μ H
D005	8-719-109-89	DIODE MTZJ-T-77-5.6C		L040	1-408-963-11	INDUCTOR	2.7 μ H
D006	8-719-069-60	DIODE UDZSTE-179.1B		L150	1-412-058-11	INDUCTOR	10 μ H
D075	8-719-404-50	DIODE MA111-TX		L151	1-412-064-11	INDUCTOR	100 μ H
D301	8-719-921-44	DIODE MTZJ-T-77-5.1C		L301	1-412-029-11	INDUCTOR	10 μ H
D303	8-719-991-33	DIODE 1SS133T-77		L302	1-412-031-11	INDUCTOR	47 μ H
D304	8-719-981-99	DIODE MTZJ-T-77-3.3		L305	1-412-029-11	INDUCTOR	10 μ H
D305	8-719-921-44	DIODE MTZJ-T-77-5.1C		L308	1-412-064-11	INDUCTOR	100 μ H
D360	8-719-914-44	DIODE DAP202K-T-146		L310	1-412-064-11	INDUCTOR	100 μ H
FERRITE BEAD				TRANSISTOR			
FB001	1-414-234-22	FERRITE	0 μ H	Q001	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
FB002	1-414-234-22	FERRITE	0 μ H	Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC				Q003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC001	8-759-827-83	IC M37280MK-114SP		Q004	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC002	8-759-663-29	IC MM1476AF(TP)		Q006	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC003	8-759-699-33	IC M24C16-MN6T(A)		Q082	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
\triangle IC301	8-752-100-49	IC CXA2154AS		Q151	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
CHIP CONDUCTOR				Q152	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR001	1-216-295-91	SHORT		Q301	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR002	1-216-295-91	SHORT		Q303	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
				Q304	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	



COMPLETE PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q305	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R035	1-216-033-00	RES-CHIP	220	5%	1/10W
Q306	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R036	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q356	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R037	1-249-409-11	CARBON	220	5%	1/4W
Q357	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R038	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q365	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R039	1-216-045-00	RES-CHIP	680	5%	1/10W
Q368	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R040	1-249-409-11	CARBON	220	5%	1/4W
Q375	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R041	1-216-045-00	RES-CHIP	680	5%	1/10W
Q378	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R042	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
Q379	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R043	1-249-417-11	CARBON	1K	5%	1/4W
Q380	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R044	1-216-033-00	RES-CHIP	220	5%	1/10W
Q387	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R045	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q388	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R046	1-216-033-00	RES-CHIP	220	5%	1/10W
Q389	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R047	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
RESISTOR						R048	1-216-025-11	RES-CHIP	100	5%	1/10W
R001	1-216-043-91	RES-CHIP	560	5%	1/10W	R050	1-216-033-00	RES-CHIP	220	5%	1/10W
R002	1-216-041-00	RES-CHIP	470	5%	1/10W	R051	1-216-033-00	RES-CHIP	220	5%	1/10W
R003	1-247-807-31	CARBON	100	5%	1/4W	R052	1-249-417-11	CARBON	1K	5%	1/4W
R004	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R054	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R005	1-216-295-91	SHORT				R055	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R006	1-216-025-11	RES-CHIP	100	5%	1/10W	R056	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R007	1-216-025-11	RES-CHIP	100	5%	1/10W	R057	1-216-097-11	RES-CHIP	100K	5%	1/10W
R008	1-216-049-11	RES-CHIP	1K	5%	1/10W	R058	1-216-097-11	RES-CHIP	100K	5%	1/10W
R009	1-216-121-11	RES-CHIP	1M	5%	1/10W	R060	1-249-409-11	CARBON	220	5%	1/4W
R010	1-216-033-00	RES-CHIP	220	5%	1/10W	R061	1-216-033-00	RES-CHIP	220	5%	1/10W
R011	1-216-033-00	RES-CHIP	220	5%	1/10W	R064	1-216-295-91	SHORT			
R012	1-216-045-00	RES-CHIP	680	5%	1/10W	R069	1-249-409-11	CARBON	220	5%	1/4W
R013	1-249-417-11	CARBON	1K	5%	1/4W	R070	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R014	1-216-073-91	RES-CHIP	10K	5%	1/10W	R071	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R015	1-216-073-91	RES-CHIP	10K	5%	1/10W	R073	1-249-425-11	CARBON	4.7K	5%	1/4W
R016	1-216-041-00	RES-CHIP	470	5%	1/10W	R074	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R017	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R077	1-216-097-11	RES-CHIP	100K	5%	1/10W
R018	1-249-409-11	CARBON	220	5%	1/4W	R085	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R019	1-216-113-00	RES-CHIP	470K	5%	1/10W	R086	1-216-045-00	RES-CHIP	680	5%	1/10W
R020	1-216-033-00	RES-CHIP	220	5%	1/10W	R087	1-216-045-00	RES-CHIP	680	5%	1/10W
R021	1-216-073-91	RES-CHIP	10K	5%	1/10W	R088	1-216-045-00	RES-CHIP	680	5%	1/10W
R022	1-249-409-11	CARBON	220	5%	1/4W	R089	1-216-033-00	RES-CHIP	220	5%	1/10W
R023	1-249-429-11	CARBON	10K	5%	1/4W	R091	1-216-073-91	RES-CHIP	10K	5%	1/10W
R024	1-249-409-11	CARBON	220	5%	1/4W	R092	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R025	1-249-426-11	CARBON	5.6K	5%	1/4W	R093	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R026	1-249-426-11	CARBON	5.6K	5%	1/4W	R094	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R027	1-249-426-11	CARBON	5.6K	5%	1/4W	R095	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R028	1-216-049-11	RES-CHIP	1K	5%	1/10W	R096	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R029	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R097	1-249-414-11	CARBON	560	5%	1/4W
R030	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R099	1-216-089-91	RES-CHIP	47K	5%	1/10W
R031	1-216-355-11	METAL OXIDE	3.3	5%	1W	R100	1-216-295-91	SHORT			
R032	1-216-033-00	RES-CHIP	220	5%	1/10W	R101	1-216-295-91	SHORT			
R033	1-216-033-00	RES-CHIP	220	5%	1/10W	R150	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R034	1-216-033-00	RES-CHIP	220	5%	1/10W	R151	1-216-025-11	RES-CHIP	100	5%	1/10W



COMPLETE PARTS LISTING FV SERIES



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R154	1-216-043-91	RES-CHIP	560	5%	1/10W	R303	1-216-073-91	RES-CHIP	10K	5%	1/10W
R155	1-216-043-91	RES-CHIP	560	5%	1/10W	R304	1-247-807-31	CARBON	100	5%	1/4W
R156	1-216-085-91	RES-CHIP	33K	5%	1/10W	R306	1-216-025-11	RES-CHIP	100	5%	1/10W
R157	1-216-081-00	RES-CHIP	22K	5%	1/10W	R308	1-216-022-00	RES-CHIP	75	5%	1/10W
R158	1-216-025-11	RES-CHIP	100	5%	1/10W	R310	1-249-417-11	CARBON	1K	5%	1/4W
R159	1-216-025-11	RES-CHIP	100	5%	1/10W	R312	1-249-417-11	CARBON	1K	5%	1/4W
R199	1-216-295-91	SHORT				R313	1-216-049-11	RES-CHIP	1K	5%	1/10W
R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R314	1-216-081-00	RES-CHIP	22K	5%	1/10W
R253	1-216-049-11	RES-CHIP	1K	5%	1/10W	R322	1-216-025-11	RES-CHIP	100	5%	1/10W
R256	1-216-073-91	RES-CHIP	10K	5%	1/10W	R323	1-216-025-11	RES-CHIP	100	5%	1/10W
R257	1-216-049-11	RES-CHIP	1K	5%	1/10W	R324	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R258	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R326	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R259	1-249-429-11	CARBON	10K	5%	1/4W	R327	1-216-025-11	RES-CHIP	100	5%	1/10W
R260	1-249-409-11	CARBON	220	5%	1/4W	R329	1-216-025-11	RES-CHIP	100	5%	1/10W
R261	1-216-113-00	RES-CHIP	470K	5%	1/10W	R332	1-216-022-00	RES-CHIP	75	5%	1/10W
R262	1-247-807-31	CARBON	100	5%	1/4W	R335	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R263	1-216-025-11	RES-CHIP	100	5%	1/10W	R336	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R264	1-216-081-00	RES-CHIP	22K	5%	1/10W	R337	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R266	1-216-081-00	RES-CHIP	22K	5%	1/10W	R338	1-216-073-91	RES-CHIP	10K	5%	1/10W
R267	1-216-049-11	RES-CHIP	1K	5%	1/10W	R340	1-216-025-11	RES-CHIP	100	5%	1/10W
R268	1-216-045-00	RES-CHIP	680	5%	1/10W	R341	1-216-089-91	RES-CHIP	47K	5%	1/10W
R269	1-216-049-11	RES-CHIP	1K	5%	1/10W	R342	1-216-049-11	RES-CHIP	1K	5%	1/10W
R270	1-216-081-00	RES-CHIP	22K	5%	1/10W	R343	1-216-097-11	RES-CHIP	100K	5%	1/10W
R271	1-216-081-00	RES-CHIP	22K	5%	1/10W	R344	1-216-295-91	SHORT			
R272	1-216-081-00	RES-CHIP	22K	5%	1/10W	R345	1-216-097-11	RES-CHIP	100K	5%	1/10W
R273	1-216-073-91	RES-CHIP	10K	5%	1/10W	R346	1-216-097-11	RES-CHIP	100K	5%	1/10W
R274	1-216-295-91	SHORT				R347	1-216-025-11	RES-CHIP	100	5%	1/10W
R276	1-216-085-91	RES-CHIP	33K	5%	1/10W	R348	1-216-022-00	RES-CHIP	75	5%	1/10W
R277	1-216-129-00	RES-CHIP	2.2M	5%	1/10W	R349	1-216-025-11	RES-CHIP	100	5%	1/10W
R278	1-216-295-91	SHORT				R350	1-216-022-00	RES-CHIP	75	5%	1/10W
R279	1-247-807-31	CARBON	100	5%	1/4W	R356	1-216-025-11	RES-CHIP	100	5%	1/10W
R280	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R357	1-216-022-00	RES-CHIP	75	5%	1/10W
R281	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R358	1-216-093-91	RES-CHIP	68K	5%	1/10W
R282	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W	R360	1-216-093-91	RES-CHIP	68K	5%	1/10W
R283	1-216-689-11	RES-CHIP	39K	5%	1/10W	R361	1-216-022-00	RES-CHIP	75	5%	1/10W
R284	1-216-049-11	RES-CHIP	1K	5%	1/10W	R370	1-249-429-11	CARBON	10K	5%	1/4W
R285	1-216-049-11	RES-CHIP	1K	5%	1/10W	R376	1-216-022-00	RES-CHIP	75	5%	1/10W
R286	1-216-089-91	RES-CHIP	47K	5%	1/10W	R380	1-216-295-91	SHORT			
R287	1-216-097-11	RES-CHIP	100K	5%	1/10W	R381	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R288	1-216-041-00	RES-CHIP	470	5%	1/10W	R382	1-216-295-91	SHORT			
R289	1-216-041-00	RES-CHIP	470	5%	1/10W	R383	1-216-295-91	SHORT			
R290	1-216-043-91	RES-CHIP	560	5%	1/10W	R384	1-216-295-91	SHORT			
R291	1-216-025-11	RES-CHIP	100	5%	1/10W	R387	1-216-025-11	RES-CHIP	100	5%	1/10W
R296	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R388	1-216-025-11	RES-CHIP	100	5%	1/10W
R297	1-216-025-11	RES-CHIP	100	5%	1/10W	R398	1-216-091-00	RES-CHIP	56K	5%	1/10W
R298	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R399	1-216-109-00	RES-CHIP	330K	5%	1/10W
R299	1-216-033-00	RES-CHIP	220	5%	1/10W	R434	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R301	1-216-022-00	RES-CHIP	75	5%	1/10W	R435	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MA BC

COMPLETE PARTS LISTING FV SERIES

REF. NO.	PART NO.	DESCRIPTION	VALUES					REF. NO.	PART NO.	DESCRIPTION	VALUES				
TUNER															
	TU150	8-598-501-30	TUNER, FSS BTF-FA402					C3539	1-163-231-11	CERAMIC CHIP	15pF	5%	50V		
CRYSTAL															
X001	1-767-487-11	VIBRATOR, CRYSTAL					C3541	1-163-106-00	CERAMIC CHIP	36pF	5%	50V			
X301	1-567-505-11	OSCILLATOR, CRYSTAL					C3542	1-126-964-11	ELECT	10μF	20%	50V			
															
*	A-1131-593-A	BC BOARD, MOUNTED (KV-27FV17/29FV17/29FV17C ONLY)					C3543	1-164-505-11	CERAMIC CHIP	2.2μF		16V			
CAPACITOR															
C3500	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3546	1-163-231-11	CERAMIC CHIP	15pF	5%	50V				
C3501	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	C3547	1-126-934-11	ELECT	220μF	20%	10V				
C3502	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3548	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V				
C3504	1-163-102-00	CERAMIC CHIP	24pF	5%	50V	C3549	1-104-660-91	ELECT	47μF	20%	16V				
C3505	1-163-102-00	CERAMIC CHIP	24pF	5%	50V	C3550	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3506	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3551	1-104-660-91	ELECT	47μF	20%	16V				
C3507	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3552	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3509	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C3553	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3510	1-163-131-00	CERAMIC CHIP	390pF	5%	50V	C3554	1-104-660-91	ELECT	47μF	20%	16V				
C3511	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C3555	1-126-934-11	ELECT	220μF	20%	10V				
C3512	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3556	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V				
C3513	1-216-295-91	SHORT					C3557	1-163-031-91	CERAMIC CHIP	0.01μF		50V			
C3514	1-163-031-91	CERAMIC CHIP	0.01μF		50V	C3558	1-104-660-91	ELECT	47μF	20%	16V				
C3515	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3559	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3516	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3560	1-104-660-91	ELECT	47μF	20%	16V				
C3517	1-126-924-11	ELECT	330μF	20%	6.3V	C3561	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3518	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C3562	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3519	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3563	1-104-660-91	ELECT	47μF	20%	16V				
C3520	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C3564	1-104-660-91	ELECT	47μF	20%	16V				
C3521	1-163-237-11	CERAMIC CHIP	27pF	5%	50V	C3565	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3522	1-104-660-91	ELECT	47μF	20%	16V	C3566	1-163-031-91	CERAMIC CHIP	0.01μF		50V				
C3523	1-165-319-11	CERAMIC CHIP	0.1μF		50V	CONNECTOR									
C3524	1-165-319-11	CERAMIC CHIP	0.1μF		50V	*	CN3500	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P						
C3525	1-163-038-91	CERAMIC CHIP	0.1μF		25V	FERRITE BEAD									
C3526	1-165-319-11	CERAMIC CHIP	0.1μF		50V	FB3500	1-414-234-22	FERRITE	0μH						
C3527	1-165-319-11	CERAMIC CHIP	0.1μF		50V	FB3501	1-414-234-22	FERRITE	0μH						
C3528	1-165-319-11	CERAMIC CHIP	0.1μF		50V	FB3502	1-414-234-22	FERRITE	0μH						
C3529	1-165-319-11	CERAMIC CHIP	0.1μF		50V	FB3503	1-414-234-22	FERRITE	0μH						
C3530	1-104-660-91	ELECT	47μF	20%	16V	FB3504	1-414-234-22	FERRITE	0μH						
C3531	1-165-319-11	CERAMIC CHIP	0.1μF		50V	FB3505	1-414-234-22	FERRITE	0μH						
C3532	1-126-964-11	ELECT	10μF	20%	50V	FB3506	1-414-234-22	FERRITE	0μH						
C3533	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	FB3507	1-414-234-22	FERRITE	0μH						
C3534	1-126-960-11	ELECT	1μF	20%	50V	FB3508	1-414-234-22	FERRITE	0μH						
C3535	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	FILTER									
C3536	1-126-960-11	ELECT	1μF	20%	50V	FL3500	1-239-848-21	FILTER, LOW PASS							
						FL3502	1-239-848-21	FILTER, LOW PASS							
						FL3503	1-239-848-21	FILTER, LOW PASS							
						FL3504	1-233-512-21	FERRITE	37μH						
						FL3505	1-233-512-21	FERRITE	37μH						
						FL3506	1-233-512-21	FERRITE	37μH						



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
<u>IC</u>							R3523	1-216-049-11	RES-CHIP	1K	5%	1/10W	
IC3500	8-759-568-27	IC UPD424210LE-60-E2					R3524	1-216-089-91	RES-CHIP	47K	5%	1/10W	
IC3501	8-759-594-44	IC UPD64082GF-3BA					R3525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
IC3502	8-759-583-47	IC UPC2933T-E1					R3526	1-216-105-91	RES-CHIP	220K	5%	1/10W	
							R3527	1-216-033-00	RES-CHIP	220	5%	1/10W	
<u>COIL</u>							R3528	1-208-776-11	METAL CHIP	560	0.50%	1/10W	
L3500	1-412-028-11	INDUCTOR	4.7μH				R3529	1-208-772-11	METAL CHIP	390	0.50%	1/10W	
L3501	1-412-058-11	INDUCTOR	10μH				R3530	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	
L3502	1-412-058-11	INDUCTOR	10μH				R3531	1-216-049-11	RES-CHIP	1K	5%	1/10W	
L3503	1-412-058-11	INDUCTOR	10μH				R3532	1-216-025-11	RES-CHIP	100	5%	1/10W	
L3504	1-412-058-11	INDUCTOR	10μH										
L3505	1-412-058-11	INDUCTOR	10μH				R3534	1-216-049-11	RES-CHIP	1K	5%	1/10W	
							R3535	1-216-025-11	RES-CHIP	100	5%	1/10W	
<u>TRANSISTOR</u>							R3544	1-216-049-11	RES-CHIP	1K	5%	1/10W	
Q3500	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX					R3545	1-216-043-91	RES-CHIP	560	5%	1/10W	
Q3501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3547	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	
Q3502	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
Q3503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3548	1-216-295-91	SHORT				
							R3549	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
Q3504	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX					R3550	1-208-780-11	METAL CHIP	820	0.50%	1/10W	
Q3505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3551	1-208-776-11	METAL CHIP	560	0.50%	1/10W	
Q3506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3552	1-208-764-11	METAL CHIP	180	0.50%	1/10W	
Q3510	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
Q3511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3553	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
							R3554	1-216-047-91	RES-CHIP	820	5%	1/10W	
Q3512	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3555	1-216-075-00	RES-CHIP	12K	5%	1/10W	
Q3513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3556	1-216-085-91	RES-CHIP	33K	5%	1/10W	
Q3514	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX					R3557	1-216-049-11	RES-CHIP	1K	5%	1/10W	
Q3515	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX											
Q3516	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3558	1-216-017-91	RES-CHIP	47	5%	1/10W	
Q3517	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					R3559	1-216-295-91	SHORT				
							R3560	1-216-049-11	RES-CHIP	1K	5%	1/10W	
<u>RESISTOR</u>							R3561	1-216-043-91	RES-CHIP	560	5%	1/10W	
R3503	1-216-017-91	RES-CHIP	47	5%	1/10W		R3563	1-216-295-91	SHORT				
R3504	1-216-295-91	SHORT					R3564	1-216-295-91	SHORT				
R3505	1-216-295-91	SHORT					R3565	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	
R3506	1-216-295-91	SHORT					R3566	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R3507	1-216-295-91	SHORT					R3567	1-216-043-91	RES-CHIP	560	5%	1/10W	
							R3568	1-216-047-91	RES-CHIP	820	5%	1/10W	
R3508	1-216-295-91	SHORT											
R3509	1-216-049-11	RES-CHIP	1K	5%	1/10W		R3569	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R3510	1-216-041-00	RES-CHIP	470	5%	1/10W		R3570	1-216-085-91	RES-CHIP	33K	5%	1/10W	
R3511	1-216-041-00	RES-CHIP	470	5%	1/10W		R3571	1-216-075-00	RES-CHIP	12K	5%	1/10W	
R3512	1-216-295-91	SHORT					R3572	1-216-049-11	RES-CHIP	1K	5%	1/10W	
							R3573	1-216-017-91	RES-CHIP	47	5%	1/10W	
R3514	1-216-025-11	RES-CHIP	100	5%	1/10W		R3588	1-216-043-91	RES-CHIP	560	5%	1/10W	
R3515	1-216-055-00	RES-CHIP	1.8K	5%	1/10W								
R3516	1-216-055-00	RES-CHIP	1.8K	5%	1/10W		<u>CRYSTAL</u>						
R3517	1-216-025-11	RES-CHIP	100	5%	1/10W		X3500	1-767-606-11	VIBRATOR, CRYSTAL				
R3518	1-216-025-11	RES-CHIP	100	5%	1/10W								
R3519	1-216-295-91	SHORT											
R3520	1-216-065-91	RES-CHIP	4.7K	5%	1/10W								
R3521	1-216-041-00	RES-CHIP	470	5%	1/10W								
R3522	1-216-041-00	RES-CHIP	470	5%	1/10W								



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
<div><div>P</div></div>								IC			
						IC3301	6-700-200-01	IC M65665FP-D60S			
								COIL			
						L3300	1-412-058-11	INDUCTOR		10μH	
						L3301	1-410-682-31	INDUCTOR		470μH	
						L3302	1-412-058-11	INDUCTOR		10μH	
						L3303	1-412-058-11	INDUCTOR		10μH	
								TRANSISTOR			
						Q3300	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
						Q3301	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
					Q3302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				
					Q3304	8-729-926-14	TRANSISTOR 2SD1292				
					Q3305	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				
					Q3307	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				
					Q3308	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				
					Q3309	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				
					Q3310	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				
					Q3312	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				
							RESISTOR				
					R3300	1-216-089-91	RES-CHIP	47K	5%	1/10W	
					R3301	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3302	1-216-089-91	RES-CHIP	47K	5%	1/10W	
					R3303	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3304	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3305	1-216-089-91	RES-CHIP	47K	5%	1/10W	
					R3306	1-216-081-00	RES-CHIP	22K	5%	1/10W	
					R3307	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3308	1-216-081-00	RES-CHIP	22K	5%	1/10W	
					R3309	1-216-041-00	RES-CHIP	470	5%	1/10W	
					R3310	1-216-089-91	RES-CHIP	47K	5%	1/10W	
					R3311	1-216-045-00	RES-CHIP	680	5%	1/10W	
					R3312	1-216-295-91	SHORT				
					R3313	1-216-295-91	SHORT				
					R3314	1-216-295-91	SHORT				
					R3318	1-216-073-91	RES-CHIP	10K	5%	1/10W	
					R3319	1-216-073-91	RES-CHIP	10K	5%	1/10W	
					R3320	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
					R3321	1-216-295-91	SHORT				
					R3323	1-216-043-91	RES-CHIP	560	5%	1/10W	
					R3324	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3327	1-216-295-91	SHORT				
					R3328	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3329	1-216-295-91	SHORT				
					R3330	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3331	1-216-049-11	RES-CHIP	1K	5%	1/10W	
					R3335	1-215-857-71	METAL OXIDE	10	5%	1W	
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NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES									
R3336	1-216-041-00	RES-CHIP	470	5%	1/10W		DIODE												
R3343	1-216-049-11	RES-CHIP	1K	5%	1/10W		D701	8-719-901-83	DIODE 1SS83TD										
R3346	1-216-049-11	RES-CHIP	1K	5%	1/10W		D702	8-719-901-83	DIODE 1SS83TD										
R3347	1-216-073-91	RES-CHIP	10K	5%	1/10W		D703	8-719-901-83	DIODE 1SS83TD										
R3348	1-216-073-91	RES-CHIP	10K	5%	1/10W		D704	8-719-302-43	DIODE RGP10GPKG23										
R3350	1-216-295-91	SHORT					IC												
R3351	1-216-033-00	RES-CHIP	220	5%	1/10W		IC701	8-759-803-42	IC LA6500-FA										
R3354	1-216-133-91	RES-CHIP	3.3M	5%	1/10W		IC702	8-759-562-43	IC TDA6108JF/N1B										
R3359	1-216-295-91	SHORT					JACK												
R3360	1-216-295-91	SHORT					⚠ J701	1-451-470-21	SOCKET, CRT										
R3361	1-216-295-91	SHORT					COIL												
R3362	1-216-061-91	RES-CHIP	3.3K	5%	1/10W		L701	1-408-613-31	INDUCTOR	68μH									
R3363	1-216-085-91	RES-CHIP	33K	5%	1/10W		TRANSISTOR												
R3364	1-216-025-11	RES-CHIP	100	5%	1/10W		Q700	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA										
R3365	1-216-025-11	RES-CHIP	100	5%	1/10W		Q701	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA										
R3368	1-216-073-91	RES-CHIP	10K	5%	1/10W		RESISTOR												
R3369	1-216-037-00	RES-CHIP	330	5%	1/10W		R700	1-249-433-11	CARBON	22K	5%	1/4W							
R3372	1-216-295-91	SHORT					R701	1-249-429-11	CARBON	10K	5%	1/4W							
R3374	1-216-295-91	SHORT					R702	1-249-409-11	CARBON	220	5%	1/4W							
CRYSTAL							R703	1-247-807-31	CARBON	100	5%	1/4W							
X3301	1-781-377-11	VIBRATOR, CRYSTAL					R704	1-249-421-11	CARBON	2.2K	5%	1/4W							
<div>CA</div>																			
*	A-1332-063-A	CA (VAR) BOARD, MOUNTED (KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)																	
*	A-1332-061-A	CA (VAR) BOARD, MOUNTED (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)																	
*	4-382-854-11	SCREW (M3X10), P, SW (+)																	
CAPACITOR							R705	1-249-429-11	CARBON	10K	5%	1/4W							
C701	1-104-664-11	ELECT	47μF	20%	25V		R706	1-249-381-11	CARBON	1	5%	1/4W							
C702	1-136-165-00	FILM	0.1μF	5%	50V		R707	1-249-383-11	CARBON	1.5	5%	1/4W							
C703	1-104-664-11	ELECT	47μF	20%	25V		R708	1-247-807-31	CARBON	100	5%	1/4W							
C704	1-107-651-11	ELECT	4.7μF	20%	250V		R709	1-247-807-31	CARBON	100	5%	1/4W							
C705	1-107-652-11	ELECT	10μF	20%	250V		R710	1-247-807-31	CARBON	100	5%	1/4W							
C706	1-137-528-11	MYLAR	0.1μF	10%	250V		R711	1-260-328-11	CARBON	1K	5%	1/2W							
C707	1-162-114-00	CERAMIC	0.0047μF		2KV		R712	1-260-328-11	CARBON	1K	5%	1/2W							
C708	1-136-165-00	FILM	0.1μF	5%	50V		R713	1-260-328-11	CARBON	1K	5%	1/2W							
C709	1-126-934-11	ELECT	220μF	20%	16V		R714	1-260-087-11	CARBON	100	5%	1/2W							
C710	1-126-964-11	ELECT	10μF	20%	50V		R715	1-260-132-11	CARBON	560K	5%	1/2W							
CONNECTOR							R716	1-260-123-11	CARBON	100K	5%	1/2W							
*	CN701	1-564-506-11	PLUG,CONNECTOR 3P										R717	1-216-373-11	METAL OXIDE	2.2	5%	2W	
	CN702	1-695-915-11	TAB (CONTACT)										(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)						
	CN704	1-785-879-11	CONNECTOR, ONE TOUCH										R718	1-216-373-11	METAL OXIDE	2.2	5%	2W	
*	CN706	1-564-509-11	PLUG,CONNECTOR 6P										(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)						
							R719	1-215-888-00	METAL OXIDE	220	5%	2W							
							R720	1-249-421-11	CARBON	2.2K	5%	1/4W							
							R721	1-249-421-11	CARBON	2.2K	5%	1/4W							
							VARIABLE RESISTOR												
							RV701	1-241-656-11	RES, ADJ, METAL FILM 110M										



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
				TRANSISTOR			
*	A-1342-550-A	VA (VAR) BOARD, MOUNTED (KV-27FS13/27FS17/27FV17/29FV17C ONLY)		Q807	8-729-931-45	TRANSISTOR IRF614	
*	A-1342-549-A	VA (VAR) BOARD, MOUNTED (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)		Q808	8-729-140-97	TRANSISTOR 2SB734-T-34	
	4-382-854-11	SCREW (M3X10), P, SW (+)		Q901	8-729-017-06	TRANSISTOR 2SC4793	
CAPACITOR				Q902	8-729-017-05	TRANSISTOR 2SA1837	
C805	1-129-763-61	FILM	0.033μF 5% 200V (KV-27FS13/27FS17/27FV17/29FV17C ONLY)	Q903	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
C805	1-130-338-91	FILM	0.01μF 5% 630V (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	Q904	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
C811	1-129-765-00	FILM	0.047μF 5% 200V (KV-27FS13/27FS17/27FV17/29FV17C ONLY)	Q905	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
C811	1-129-768-61	FILM	0.082μF 5% 200V (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	Q906	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
C901	1-107-667-11	ELECT	2.2μF 20% 160V	RESISTOR			
C902	1-130-491-00	MYLAR	0.047μF 5% 50V	R818	1-216-025-11	RES-CHIP	100 5% 1/10W
C903	1-126-935-11	ELECT	470μF 20% 10V	R826	1-249-421-11	CARBON	2.2K 5% 1/4W
C904	1-130-471-00	MYLAR	0.001μF 5% 50V	R876	1-216-049-11	RES-CHIP	1K 5% 1/10W
C905	1-106-383-00	MYLAR	0.047μF 10% 200V	R901	1-249-401-11	CARBON	47 5% 1/4W
C906	1-130-471-00	MYLAR	0.001μF 5% 50V	R902	1-249-386-11	CARBON	2.7 5% 1/4W
C907	1-107-638-11	ELECT	33μF 20% 160V	R903	1-249-414-11	CARBON	560 5% 1/4W
C908	1-126-935-11	ELECT	470μF 20% 10V	R904	1-249-432-11	CARBON	18K 5% 1/4W
C909	1-161-830-00	CERAMIC	0.0047μF 500V	R905	1-249-417-11	CARBON	1K 5% 1/4W
C910	1-104-999-11	MYLAR	0.1μF 10% 200V	R906	1-249-432-11	CARBON	18K 5% 1/4W
C911	1-104-665-11	ELECT	100μF 20% 10V	R907	1-249-386-11	CARBON	2.7 5% 1/4W
C912	1-126-941-11	ELECT	470μF 20% 25V	R908	1-249-414-11	CARBON	560 5% 1/4W
C913	1-102-074-00	CERAMIC	0.001μF 10% 50V	R909	1-260-312-11	CARBON	47 5% 1/2W
C914	1-130-491-00	MYLAR	0.047μF 5% 50V	R910	1-216-476-11	METAL OXIDE	180 5% 3W
CONNECTOR				R911	1-249-403-11	CARBON	68 5% 1/4W
*	CN901	1-564-508-11	PLUG,CONNECTOR 5P	R912	1-249-409-11	CARBON	220 5% 1/4W
*	CN902	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	R913	1-249-403-11	CARBON	68 5% 1/4W
*	CN904	1-564-507-11	PLUG,CONNECTOR 4P	R914	1-249-410-11	CARBON	270 5% 1/4W
DIODE				R915	1-249-417-11	CARBON	1K 5% 1/4W
D804	8-719-302-43	DIODE RGP10GPKG23		R916	1-249-417-11	CARBON	1K 5% 1/4W
D805	8-719-991-33	DIODE 1SS133T-77		R917	1-249-417-11	CARBON	1K 5% 1/4W
D806	8-719-991-33	DIODE 1SS133T-77		R918	1-247-807-31	CARBON	100 5% 1/4W
D807	8-719-210-21	DIODE ERA82-004TP5		R919	1-247-807-31	CARBON	100 5% 1/4W
D901	8-719-110-88	DIODE MTZJ-T-77-39		R920	1-249-416-11	CARBON	820 5% 1/4W
D902	8-719-110-88	DIODE MTZJ-T-77-39		R921	1-249-429-11	CARBON	10K 5% 1/4W
D903	8-719-991-33	DIODE 1SS133T-77		R922	1-249-397-11	CARBON	22 5% 1/4W
COIL				R923	1-249-401-11	CARBON	47 5% 1/4W
L801	1-406-989-21	INDUCTOR	10mH				
L802	1-459-111-00	INDUCTOR	10mH	*	A-1343-875-A	D (VAR) BOARD, MOUNTED (KV-27FS13/27FS17/27FV17/29FV17C ONLY)	
L901	1-412-528-11	INDUCTOR	18μH	*	A-1343-874-A	D (VAR) BOARD, MOUNTED (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	
				CAPACITOR			
				C801	1-126-960-11	ELECT	1μF 20% 50V
				C802	1-126-964-11	ELECT	10μF 20% 50V
				C803	1-136-191-11	MYLAR	0.22μF 5% 63V



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C804	1-136-191-11	MYLAR	0.22μF 5% 63V	TRANSISTOR			
C807	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	Q801	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C808	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	Q802	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
C809	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V	Q803	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
C810	1-130-495-00	MYLAR	0.1μF 5% 50V	Q804	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
C812	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	Q805	8-729-140-97	TRANSISTOR 2SB734-T-34	
C814	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	Q806	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C815	1-129-718-00	FILM	0.022μF 5% 630V	Q809	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C816	1-102-244-00	CERAMIC	220pF 10% 500V	Q810	8-729-043-95	TRANSISTOR 2SC3840K	
C817	1-129-709-91	FILM	0.0039μF 5% 630V	Q811	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
		(KV-27FS13/27FS17/27FV17/29FV17C ONLY)		Q812	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
C817	1-129-928-00	FILM	0.0027μF 10% 630V	RESISTOR			
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)		R801	1-216-089-91	RES-CHIP	47K 5% 1/10W
C818	1-164-735-51	CERAMIC	0.0015μF 10% 500V	R802	1-216-073-91	RES-CHIP	10K 5% 1/10W
		(KV-27FS13/27FS17/27FV17/29FV17C ONLY)		R803	1-216-081-00	RES-CHIP	22K 5% 1/10W
C818	1-164-625-11	CERAMIC	680pF 10% 500V	R804	1-216-073-91	RES-CHIP	10K 5% 1/10W
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)		R805	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
C820	1-109-954-11	ELECT	0.47μF 20% 160V	R806	1-216-081-00	RES-CHIP	22K 5% 1/10W
C821	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	R807	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
C823	1-130-967-00	FILM	0.0027μF 5% 50V	R808	1-216-073-91	RES-CHIP	10K 5% 1/10W
C824	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V	R809	1-216-081-00	RES-CHIP	22K 5% 1/10W
C825	1-137-150-11	MYLAR	0.01μF 5% 50V	R811	1-216-025-11	RES-CHIP	100 5% 1/10W
C826	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	R812	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
C862	1-126-964-11	ELECT	10μF 20% 50V	R813	1-216-041-00	RES-CHIP	470 5% 1/10W
CONNECTOR				R814	1-215-862-11	METAL OXIDE	68 5% 1W
* CN800	1-564-510-11	PLUG,CONNECTOR 7P				(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	
* CN801	1-564-507-11	PLUG,CONNECTOR 4P		R815	1-215-862-11	METAL OXIDE	68 5% 1W
* CN802	1-508-784-21	PIN,CONNECTOR (5MM PITCH) 1P		R816	1-247-807-31	CARBON	100 5% 1/4W
DIODE				R817	1-216-091-00	RES-CHIP	56K 5% 1/10W
D801	8-719-109-89	DIODE MTZJ-T-77-5.6C				(KV-27FS13/27FS17/27FV17/29FV17C ONLY)	
D802	8-719-991-33	DIODE 1SS133T-77		R817	1-208-822-11	METAL CHIP	47K 0.50% 1/10W
D808	8-719-991-33	DIODE 1SS133T-77				(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	
D809	8-719-110-41	DIODE MTZJ-T-77-15B		R819	1-216-089-91	RES-CHIP	47K 5% 1/10W
D810	8-719-970-87	DIODE ERA38-06TP1		R820	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
D811	8-719-970-87	DIODE ERA38-06TP1				(KV-27FS13/27FS17/27FV17/29FV17C ONLY)	
D812	8-719-300-33	DIODE ERB44-06TP1		R820	1-208-818-11	METAL CHIP	33K 0.50% 1/10W
D813	8-719-991-33	DIODE 1SS133T-77				(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	
D814	8-719-991-33	DIODE 1SS133T-77		R821	1-216-077-91	RES-CHIP	15K 5% 1/10W
IC						(KV-27FS13/27FS17/27FV17/29FV17C ONLY)	
IC801	8-759-700-42	IC NJM2904D		R821	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
IC802	8-759-659-67	IC NJM2903D				(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)	
IC803	8-759-659-67	IC NJM2903D		R822	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
CHIP CONDUCTOR				R823	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
JR801	1-216-295-91	SHORT		R824	1-208-830-11	METAL CHIP	100K 0.50% 1/10W
COIL				R825	1-208-830-11	METAL CHIP	100K 0.50% 1/10W
L803	1-406-677-11	INDUCTOR	10mH	R827	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R828	1-216-085-91	RES-CHIP	33K 5% 1/10W
				R829	1-208-846-11	METAL CHIP	470K 0.50% 1/10W
				R830	1-216-295-91	SHORT	



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R831	1-216-049-11	RES-CHIP	1K	5%	1/10W	R890	1-216-097-11	RES-CHIP	100K	5%	1/10W
R832	1-216-067-00	RES-CHIP	5.6K	5%	1/10W			(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)			
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)				R860	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R832	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R862	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)				R863	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R833	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R864	1-216-033-00	RES-CHIP	220	5%	1/10W
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R833	1-216-689-11	RES-CHIP	39K	5%	1/10W	R865	1-216-097-11	RES-CHIP	100K	5%	1/10W
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)				R866	1-249-429-11	CARBON	10K	5%	1/4W
						R867	1-216-073-91	RES-CHIP	10K	5%	1/10W
R834	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R868	1-216-073-91	RES-CHIP	10K	5%	1/10W
R835	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R869	1-216-097-11	RES-CHIP	100K	5%	1/10W
R836	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R837	1-208-808-11	METAL CHIP	12K	0.50%	1/10W	R870	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
						R871	1-215-489-00	METAL	680K	1%	1/4W
R838	1-247-807-31	CARBON	100	5%	1/4W	R872	1-216-121-11	RES-CHIP	1M	5%	1/10W
R839	1-216-025-11	RES-CHIP	100	5%	1/10W	R873	1-216-073-91	RES-CHIP	10K	5%	1/10W
R840	1-216-093-91	RES-CHIP	68K	5%	1/10W	R874	1-216-037-00	RES-CHIP	330	5%	1/10W
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)				R875	1-216-035-00	RES-CHIP	270	5%	1/10W
R841	1-208-802-11	METAL CHIP	6.8K	0.50%	1/10W						
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R841	1-208-806-11	METAL CHIP	10K	0.50%	1/10W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R842	1-208-796-11	METAL CHIP	3.9K	0.50%	1/10W						
R845	1-249-441-11	CARBON	100K	5%	1/4W						
R846	1-249-441-11	CARBON	100K	5%	1/4W						
R847	1-249-441-11	CARBON	100K	5%	1/4W						
R848	1-215-876-00	METAL OXIDE	15K	5%	1W						
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R848	1-215-894-11	METAL OXIDE	2.2K	5%	2W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R849	1-215-920-11	METAL OXIDE	3.3K	5%	3W						
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R849	1-216-486-21	METAL OXIDE	8.2K	5%	3W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R850	1-216-486-21	METAL OXIDE	8.2K	5%	3W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R851	1-215-894-11	METAL OXIDE	2.2K	5%	2W						
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R851	1-215-922-11	METAL OXIDE	6.8K	5%	3W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R852	1-215-922-11	METAL OXIDE	6.8K	5%	3W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R854	1-216-069-00	RES-CHIP	6.8K	5%	1/10W						
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R854	1-216-067-00	RES-CHIP	5.6K	5%	1/10W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R855	1-216-089-91	RES-CHIP	47K	5%	1/10W						
		(KV-27FS13/27FS17/27FV17/29FV17/29FV17C ONLY)									
R855	1-216-091-00	RES-CHIP	56K	5%	1/10W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									
R857	1-208-818-11	METAL CHIP	33K	0.50%	1/10W						
		(KV-32FS13/32FS17/34FS13C/34FS17 ONLY)									

TRANSFORMER

T801 1-424-584-11 TRANSFORMER, DYNAMIC FOCUS



* A-1372-817-A HX BOARD, MOUNTED

CONNECTOR

* CN4001 1-564-518-11 PLUG,CONNECTOR 3P

RESISTOR

R4001	1-216-025-11	RES-CHIP	100	5%	1/10W
R4002	1-216-045-00	RES-CHIP	680	5%	1/10W
R4003	1-216-047-91	RES-CHIP	820	5%	1/10W
R4004	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4005	1-216-069-00	RES-CHIP	6.8K	5%	1/10W

SWITCH

S4001	1-762-196-21	SWITCH TACTILE
S4002	1-762-196-21	SWITCH TACTILE
S4003	1-762-196-21	SWITCH TACTILE
S4004	1-762-196-21	SWITCH TACTILE
S4005	1-762-196-21	SWITCH TACTILE
S4006	1-762-196-21	SWITCH TACTILE



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
<div>HA</div>						<div>IC</div>							
*	A-1372-825-A	HA BOARD, MOUNTED (KV-27FV17/29FV17/29FV17C ONLY)					IC4050	8-742-211-20	HYB IC SBX3071-71				
<div>CAPACITOR</div>						<div>CHIP CONDUCTOR</div>							
C4202	1-117-534-91	ELECT	1μF	20%	100V	JR4051	1-216-295-91	SHORT					
C4203	1-117-534-91	ELECT	1μF	20%	100V	<div>RESISTOR</div>							
<div>CONNECTOR</div>						R4050	1-249-401-11	CARBON	47	5%	1/4W		
						R4051	1-216-049-11	RES-CHIP	1K	5%	1/10W		
						<div>K</div>							
*	CN4200	1-564-512-11	PLUG,CONNECTOR 9P			*	A-1380-633-A	K (VAR) BOARD, MOUNTED (KV-27FV17/29FV17/29FV17C ONLY)					
<div>DIODE</div>						*	A-1380-632-A	K (VAR) BOARD, MOUNTED (KV-27FS13/27FV17/32FS13/32FS17/34FS13C/ 34FS17 ONLY)					
D4216	8-719-069-60	DIODE UDZSTE-179.1B				<div>CAPACITOR</div>							
D4217	8-719-108-12	DIODE RD9.1EW-T1				C201	1-126-963-11	ELECT	4.7μF	20%	50V		
D4218	8-719-108-12	DIODE RD9.1EW-T1				C202	1-126-963-11	ELECT	4.7μF	20%	50V		
D4219	8-719-108-12	DIODE RD9.1EW-T1				C404	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V		
D4299	8-719-069-60	DIODE UDZSTE-179.1B				C405	1-163-034-91	CERAMIC CHIP	0.033μF		50V		
<div>JACK</div>						C406	1-163-011-11	CERAMIC CHIP	0.0015μF	10%	50V		
J4221	1-770-361-11	TERMINAL BLOCK, S				C407	1-164-222-91	CERAMIC CHIP	0.22μF		25V		
<div>RESISTOR</div>						C408	1-164-222-91	CERAMIC CHIP	0.22μF		25V		
R4206	1-249-425-11	CARBON	4.7K	5%	1/4W	C409	1-163-011-11	CERAMIC CHIP	0.0015μF	10%	50V		
R4207	1-216-113-00	RES-CHIP	470K	5%	1/10W	C410	1-163-034-91	CERAMIC CHIP	0.033μF		50V		
R4209	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C411	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V		
R4210	1-249-419-11	CARBON	1.5K	5%	1/4W	C412	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
R4211	1-249-421-11	CARBON	2.2K	5%	1/4W	C413	1-126-963-11	ELECT	4.7μF	20%	50V		
R4212	1-249-427-11	CARBON	6.8K	5%	1/4W	C414	1-126-963-11	ELECT	4.7μF	20%	50V		
R4228	1-216-113-00	RES-CHIP	470K	5%	1/10W	C415	1-126-963-11	ELECT	4.7μF	20%	50V		
<div>SWITCH</div>						C416	1-126-963-11	ELECT	4.7μF	20%	50V		
S4217	1-762-196-21	SWITCH TACTILE				C417	1-126-963-11	ELECT	4.7μF	20%	50V		
S4218	1-762-196-21	SWITCH TACTILE				C418	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
S4219	1-762-196-21	SWITCH TACTILE				C419	1-164-346-11	CERAMIC CHIP	1μF		16V		
S4220	1-762-196-21	SWITCH TACTILE				C422	1-126-963-11	ELECT	4.7μF	20%	50V		
<div>HB</div>						C423	1-126-963-11	ELECT	4.7μF	20%	50V		
*	A-1372-826-A	HB (VAR) BOARD, MOUNTED (KV-27FV17/29FV17/29FV17C ONLY)				C424	1-164-005-11	CERAMIC CHIP	0.47μF		25V		
<div>CAPACITOR</div>						(KV-27FV17/29FV17/29FV17C ONLY)							
C4050	1-104-665-11	ELECT	100μF	20%	25V	C425	1-164-346-11	CERAMIC CHIP	1μF		16V		
<div>CONNECTOR</div>						(KV-27FV17/29FV17/29FV17C ONLY)							
*	CN4050	1-564-520-11	PLUG,CONNECTOR 5P			C426	1-126-960-11	ELECT	1μF	20%	50V		
<div>DIODE</div>						(KV-27FV17/29FV17/29FV17C ONLY)							
D4051	8-719-057-09	DIODE LNJ801LPDJA				C427	1-126-968-11	ELECT	100μF	20%	50V		
						(KV-27FV17/29FV17/29FV17C ONLY)							
						C428	1-126-968-11	ELECT	100μF	20%	50V		
						(KV-27FV17/29FV17/29FV17C ONLY)							



COMPLETE PARTS LISTING

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C429	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V (KV-27FV17/29FV17/29FV17C ONLY)	JR419	1-216-295-91	SHORT	
C430	1-164-222-91	CERAMIC CHIP	0.22μF 25V (KV-27FV17/29FV17/29FV17C ONLY)	JR440	1-216-295-91	SHORT	
C431	1-163-038-91	CERAMIC CHIP	0.1μF 25V (KV-27FV17/29FV17/29FV17C ONLY)	JR460	1-216-295-91	SHORT	
C432	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V (KV-27FV17/29FV17/29FV17C ONLY)	JR420	1-216-295-91	SHORT	
C433	1-164-346-11	CERAMIC CHIP	1μF 16V (KV-27FV17/29FV17/29FV17C ONLY)	JR421	1-216-295-91	SHORT	
C434	1-163-038-91	CERAMIC CHIP	0.1μF 25V (KV-27FV17/29FV17/29FV17C ONLY)	JR422	1-216-295-91	SHORT	
C440	1-163-038-91	CERAMIC CHIP	0.1μF 25V	JR425	1-216-295-91	SHORT	
C441	1-126-933-11	ELECT	100μF 20% 16V	JR426	1-216-295-91	SHORT	
C446	1-126-933-11	ELECT	100μF 20% 16V	JR427	1-216-295-91	SHORT	
C450	1-126-963-11	ELECT	4.7μF 20% 50V	JR428	1-216-295-91	SHORT	
C451	1-126-963-11	ELECT	4.7μF 20% 50V	JR429	1-216-295-91	SHORT	
C455	1-164-005-11	CERAMIC CHIP	0.47μF 25V (KV-27FV17/29FV17/29FV17C ONLY)	JR474	1-216-295-91	SHORT	
C456	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V (KV-27FV17/29FV17/29FV17C ONLY)	JR491	1-216-295-91	SHORT	
C457	1-163-034-91	CERAMIC CHIP	0.033μF 50V (KV-27FV17/29FV17/29FV17C ONLY)	COIL			
C458	1-126-963-11	ELECT	4.7μF 20% 50V (KV-27FV17/29FV17/29FV17C ONLY)	L410	1-412-062-11	INDUCTOR	47μH
C460	1-126-963-11	ELECT	4.7μF 20% 50V (KV-27FV17/29FV17/29FV17C ONLY)	TRANSISTOR			
C475	1-163-038-91	CERAMIC CHIP	0.1μF 25V	Q430	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
C490	1-216-295-91	SHORT		Q431	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
CONNECTOR				Q432	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
* CN402	1-564-506-11	PLUG,CONNECTOR 3P		Q433	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
CN450	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P		RESISTOR			
CN451	1-564-505-11	PLUG,CONNECTOR 2P		R403	1-216-295-91	SHORT	
IC				R404	1-216-025-11	RES-CHIP	100 5% 1/10W
IC403	8-759-658-19	IC NJM2198-TE2 (KV-27FV17/29FV17/29FV17C ONLY)		R405	1-216-025-11	RES-CHIP	100 5% 1/10W
IC404	8-759-697-77	IC NJW1130AG-TE2		R407	1-216-025-11	RES-CHIP	100 5% 1/10W
CHIP CONDUCTOR				R409	1-216-025-11	RES-CHIP	100 5% 1/10W
JR402	1-216-295-91	SHORT (KV-27FV17/29FV17/29FV17C ONLY)		R410	1-216-025-11	RES-CHIP	100 5% 1/10W
JR403	1-216-295-91	SHORT		R431	1-216-073-91	RES-CHIP	10K 5% 1/10W
JR404	1-216-295-91	SHORT		R432	1-216-073-91	RES-CHIP	10K 5% 1/10W
JR407	1-216-295-91	SHORT (KV-27FV13/27FS17/32FS13/32FS17/34FS13C/ 34FS17 ONLY)		R433	1-216-295-91	SHORT	
JR408	1-216-295-91	SHORT (KV-27FV13/27FS17/32FS13/32FS17/34FS13C/ 34FS17 ONLY)		R434	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R435	1-216-033-00	RES-CHIP	220 5% 1/10W
				R436	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R437	1-216-033-00	RES-CHIP	220 5% 1/10W
				R438	1-216-033-00	RES-CHIP	220 5% 1/10W
				R442	1-216-033-00	RES-CHIP	220 5% 1/10W
				R443	1-216-105-91	RES-CHIP	220K 5% 1/10W
				R444	1-216-105-91	RES-CHIP	220K 5% 1/10W
				R445	1-216-105-91	RES-CHIP	220K 5% 1/10W
				R446	1-216-105-91	RES-CHIP	220K 5% 1/10W
				R452	1-216-073-91	RES-CHIP	10K 5% 1/10W (KV-27FV17/29FV17/29FV17C ONLY)
				R455	1-216-081-00	RES-CHIP	22K 5% 1/10W

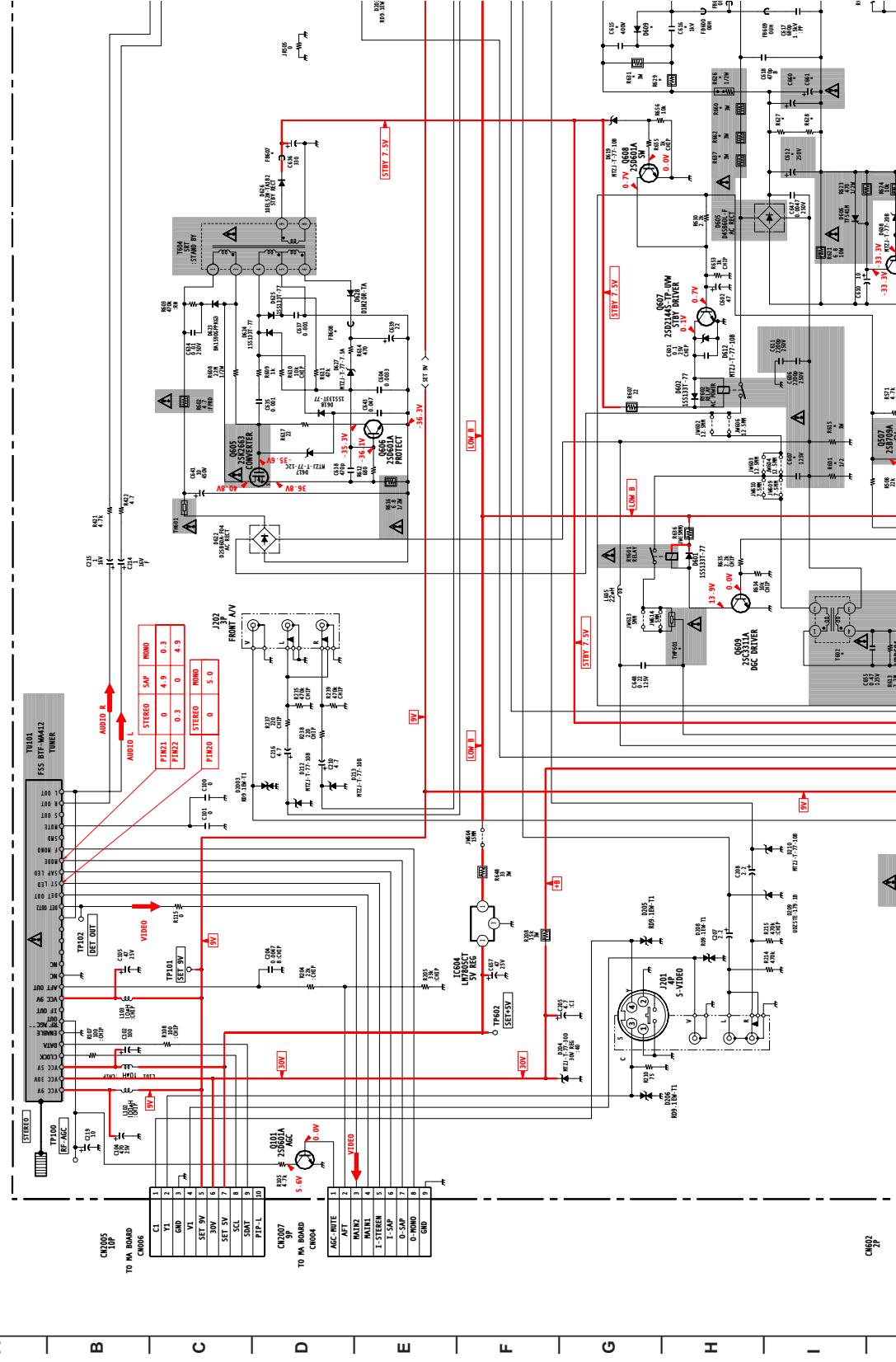


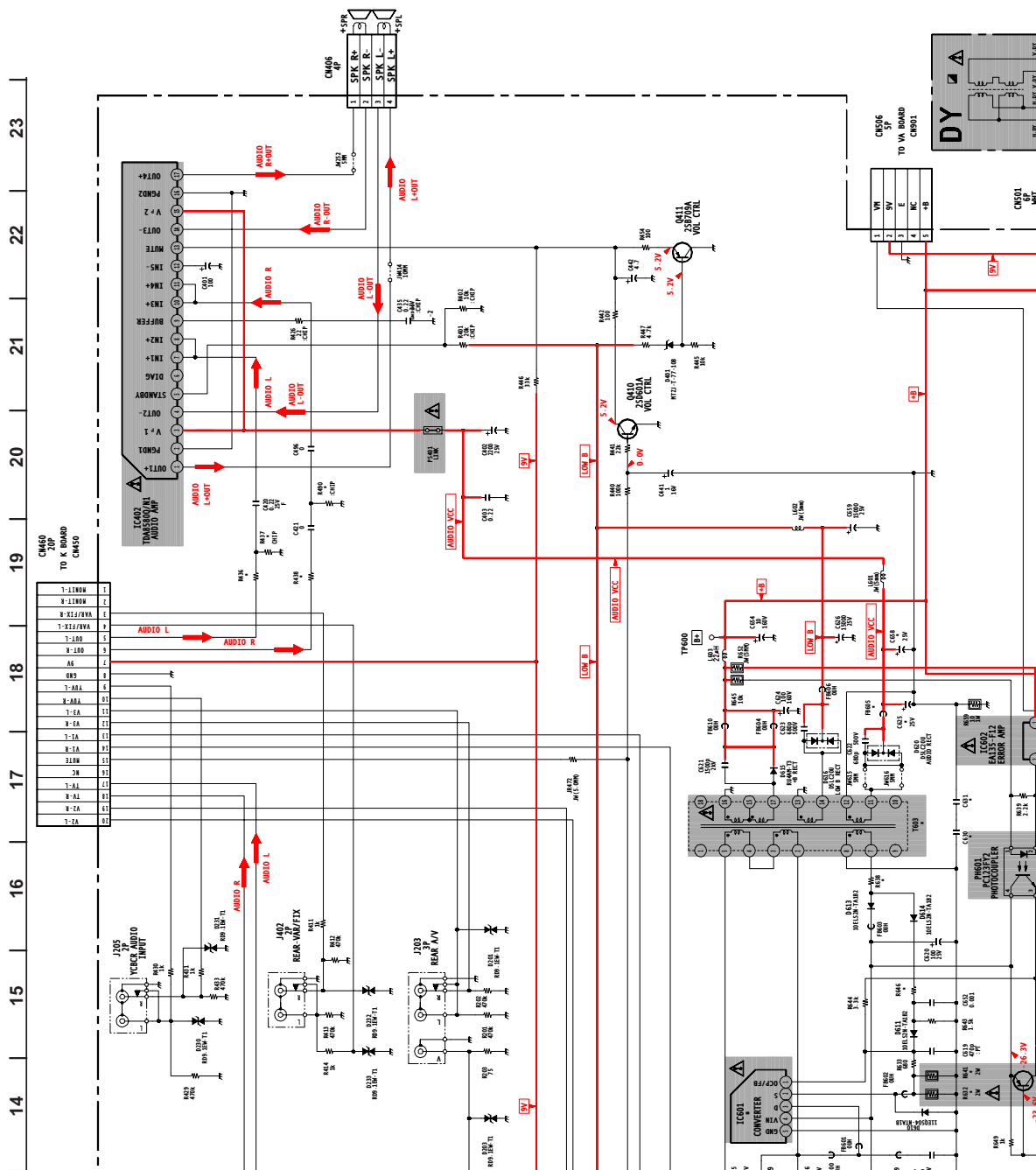
REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
R456	1-216-081-00	RES-CHIP	22K	5%	1/10W	REMOTE COMMANDER			
R468	1-216-295-91	SHORT				1-476-680-11		REMOTE COMMANDER (RM-Y180) (KV-27FS13/32FS13/34FS13C ONLY)	
R469	1-216-295-91	SHORT				1-476-681-11		REMOTE COMMANDER (RM-Y181) (KV-27FS17/32FS17/34FS17/27FV17/29FV17/ 29FV17C ONLY)	
R470	1-216-025-11	RES-CHIP	100	5%	1/10W	4-978-977-11		BATTERY COVER (RM-Y180, RM-Y181)	
<hr/>									
ACCESSORIES AND PACKAGING									
*	4-041-255-01	BAG, PROTECTION (KV-27FS13/27FS17/ 27FV17/ 29FV17/29FV17C ONLY)							
*	4-041-259-01	BAG, PROTECTION (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)							
*	4-075-517-01	CARTON, INDIVIDUAL (KV-27FV17 ONLY)							
*	4-075-524-01	CARTON, INDIVIDUAL (KV-29FV17/29FV17C ONLY)							
*	4-074-568-05	CARTON, INDIVIDUAL (KV-27FS13/27FS17 ONLY)							
*	4-083-277-01	CARTON, INDIVIDUAL (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)							
	4-081-082-01	CUSHION, UPPER (KV-27FS13/27FS17 ONLY)							
	4-081-083-01	CUSHION, LOWER (KV-27FS13/27FS17 ONLY)							
*	4-073-715-02	CUSHION ASSY, UPPER (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)							
*	4-073-716-02	CUSHION ASSY, LOWER (KV-32FS13/32FS17/34FS13C/34FS17 ONLY)							
	4-075-515-01	CUSHION ASSY, UPPER (KV-27FV17/29FV17/29FV17C ONLY)							
	4-075-516-01	CUSHION ASSY, LOWER (KV-27FV17/29FV17/29FV17C ONLY)							
	4-081-737-21	MANUAL, INSTRUCTION (KV-27FS13/27FS17/27FV17/32FS13/32FS17 ONLY)							
	4-081-738-41	MANUAL, INSTRUCTION (KV-29FV17/29FV17C ONLY)							
	4-081-737-31	MANUAL, INSTRUCTION (KV-27FS13CND/27FV17CND/32FS13CND ONLY)							
	4-081-739-41	MANUAL, INSTRUCTION (KV-34FS13C/34FS17 ONLY)							

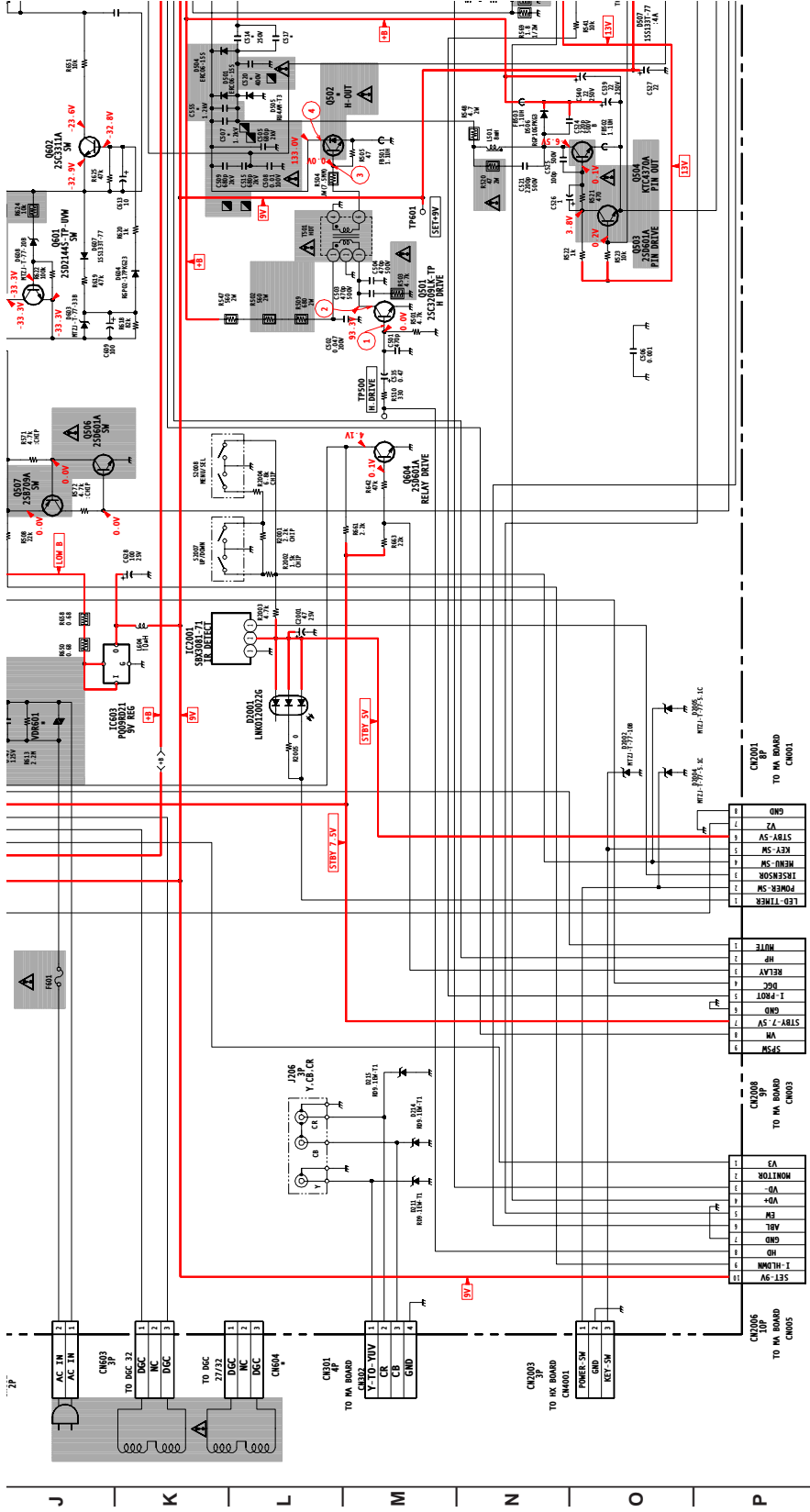
The schematic diagram illustrates the internal wiring of a car stereo unit. Key components include:

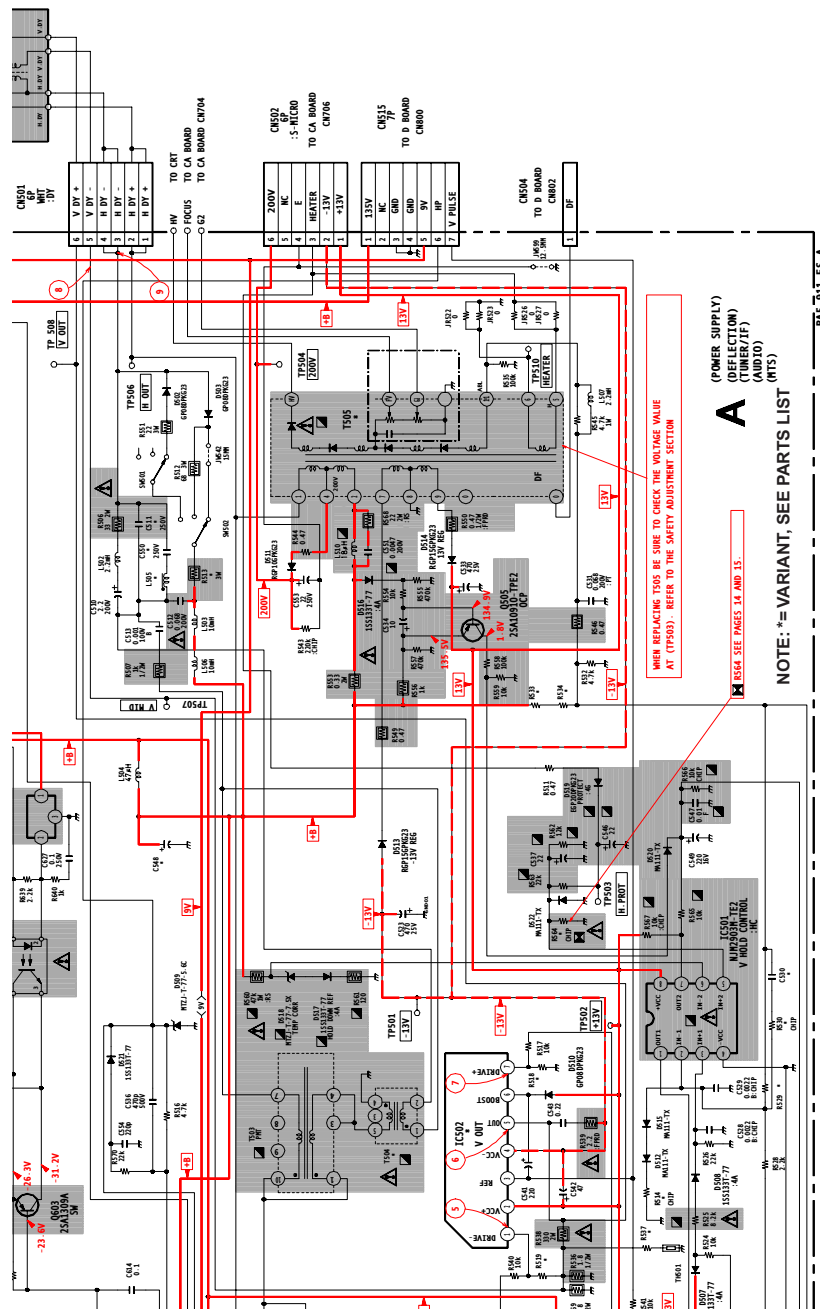
- Tuner Section (Top Left):** Features a TUNER IC (T801) connected to various pins for power, ground, and signal processing.
- Amplifier Section (Middle):** Includes a 7805 voltage regulator for a +5V supply, a 7809 regulator for a +9V supply, and a 2N3638A MOSFET driver for the speaker output.
- Speaker Output Stage (Bottom):** Shows the connection to two speakers (SPEAKER L and SPEAKER R) through a common ground.
- Control and Signal Lines:** Numerous lines represent control signals (e.g., SET SW, VOLUME), audio inputs (e.g., AUDIO IN, AUDIO OUT), and status indicators (e.g., LED).
- Power Supply Section (Right Side):** Details the AC input, rectification by diodes (D801-D804), and filtering by capacitors (C801-C804) to provide stable DC rails.
- Component Values:** Various resistors (R801-R804) and capacitors (C801-C804) are specified with their respective values (e.g., 10K, 100K, 10M, 100nF, 1μF).
- Pin Connections:** The bottom of the diagram shows the pinout for connectors such as "TO MAIN BOARD" and "TO HEAD UNIT".

The diagram uses standard electronic symbols for integrated circuits, transistors, diodes, capacitors, and resistors. Red arrows indicate specific signal paths or power flows throughout the circuit.



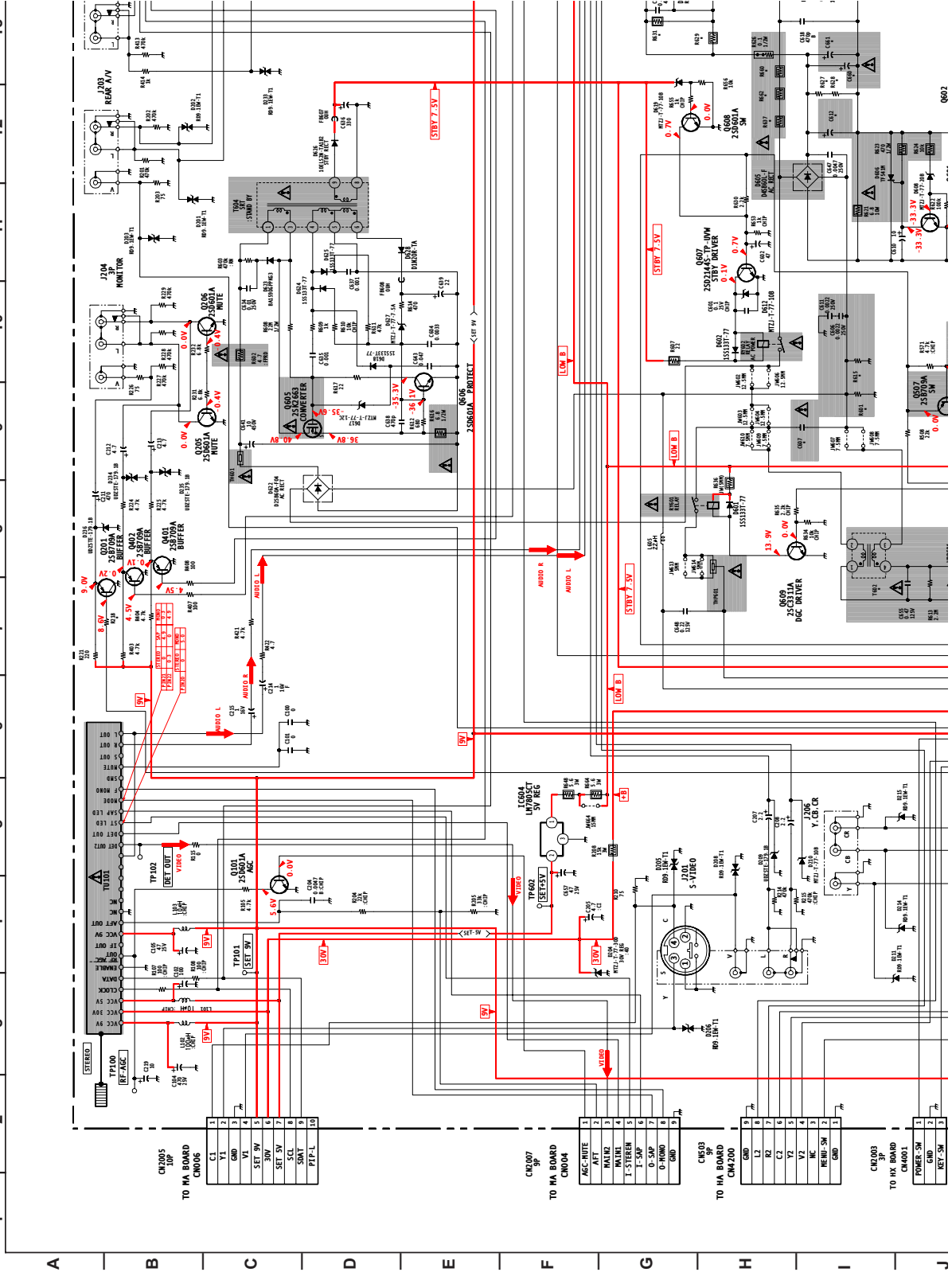


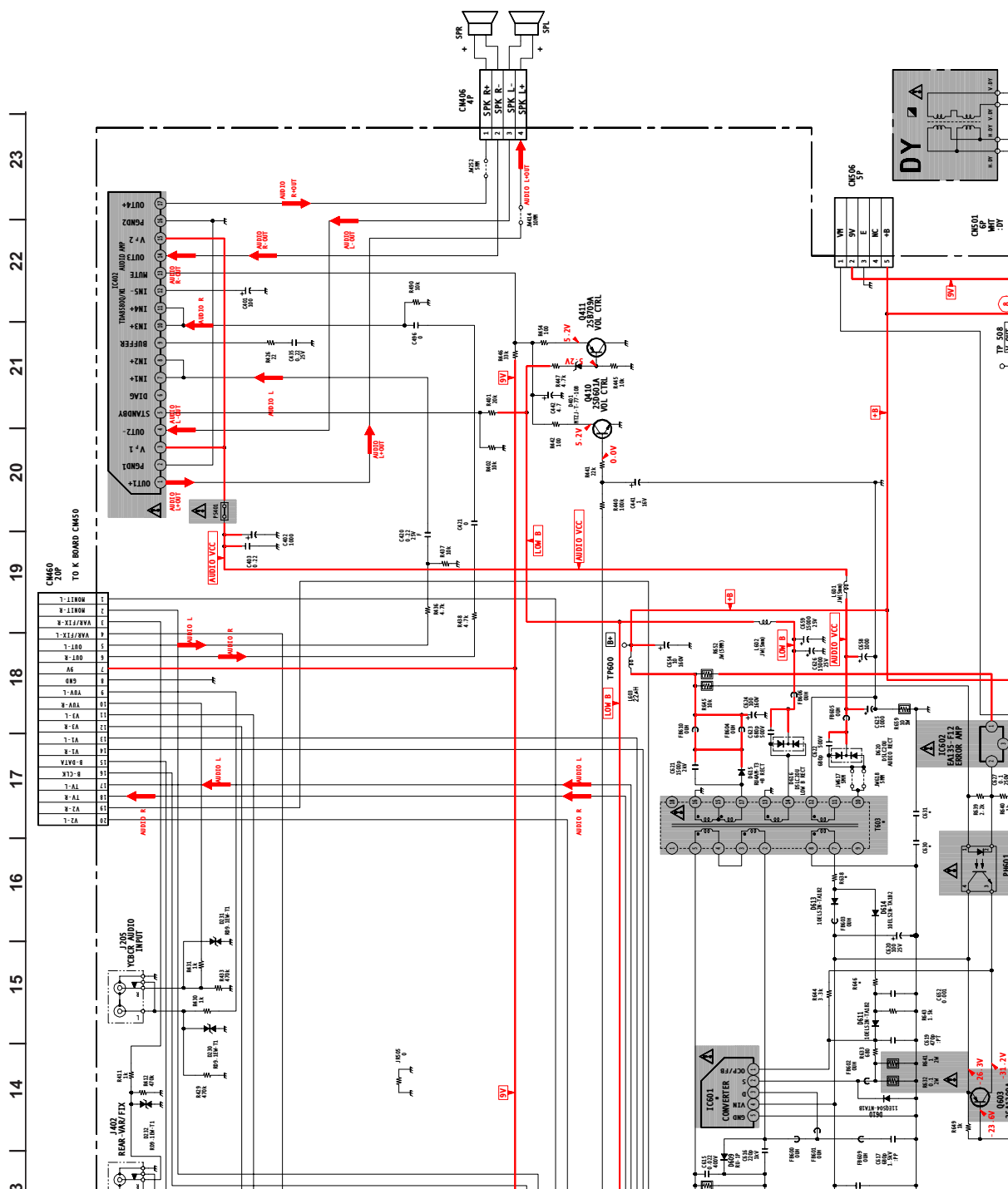


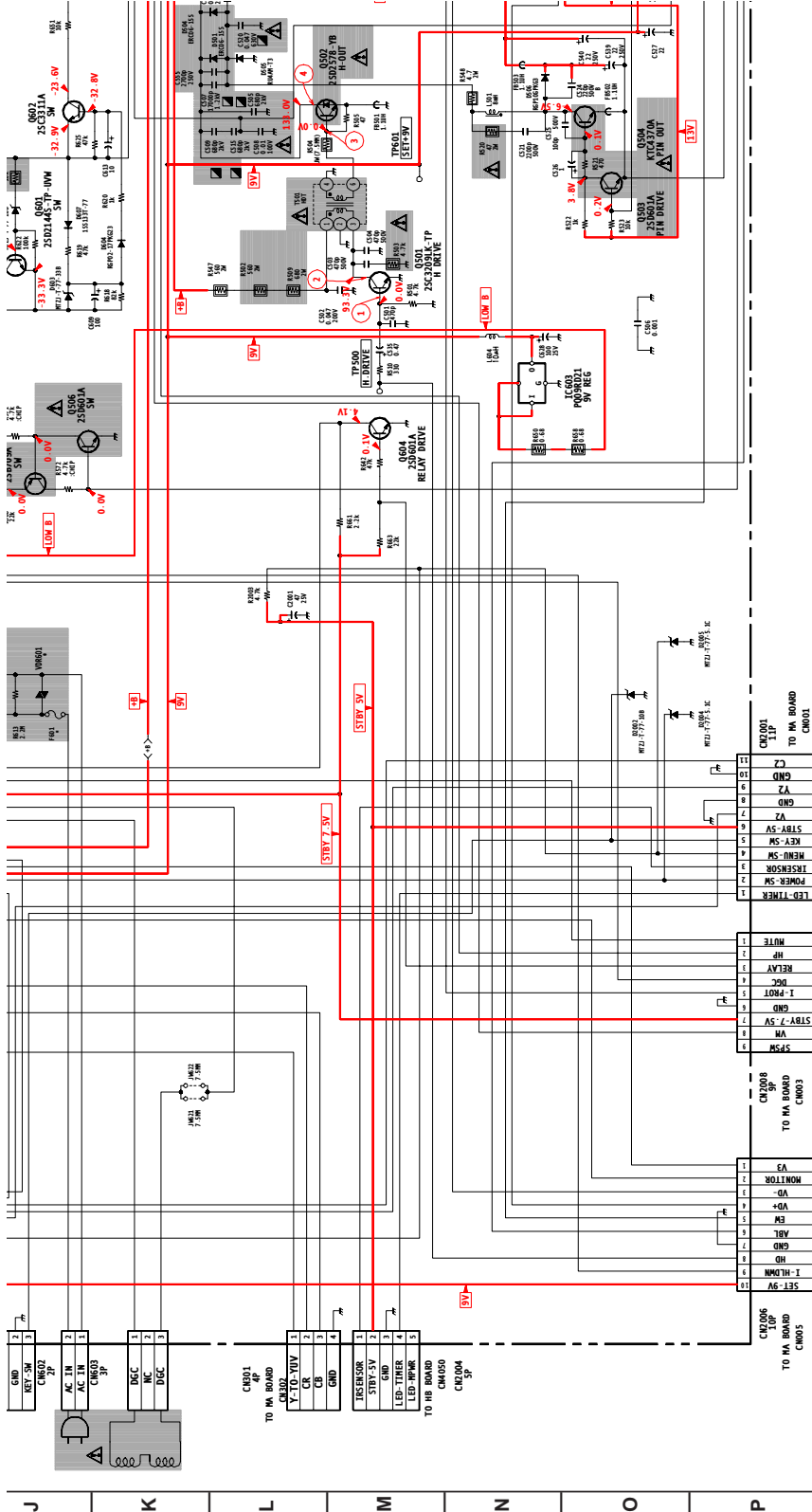


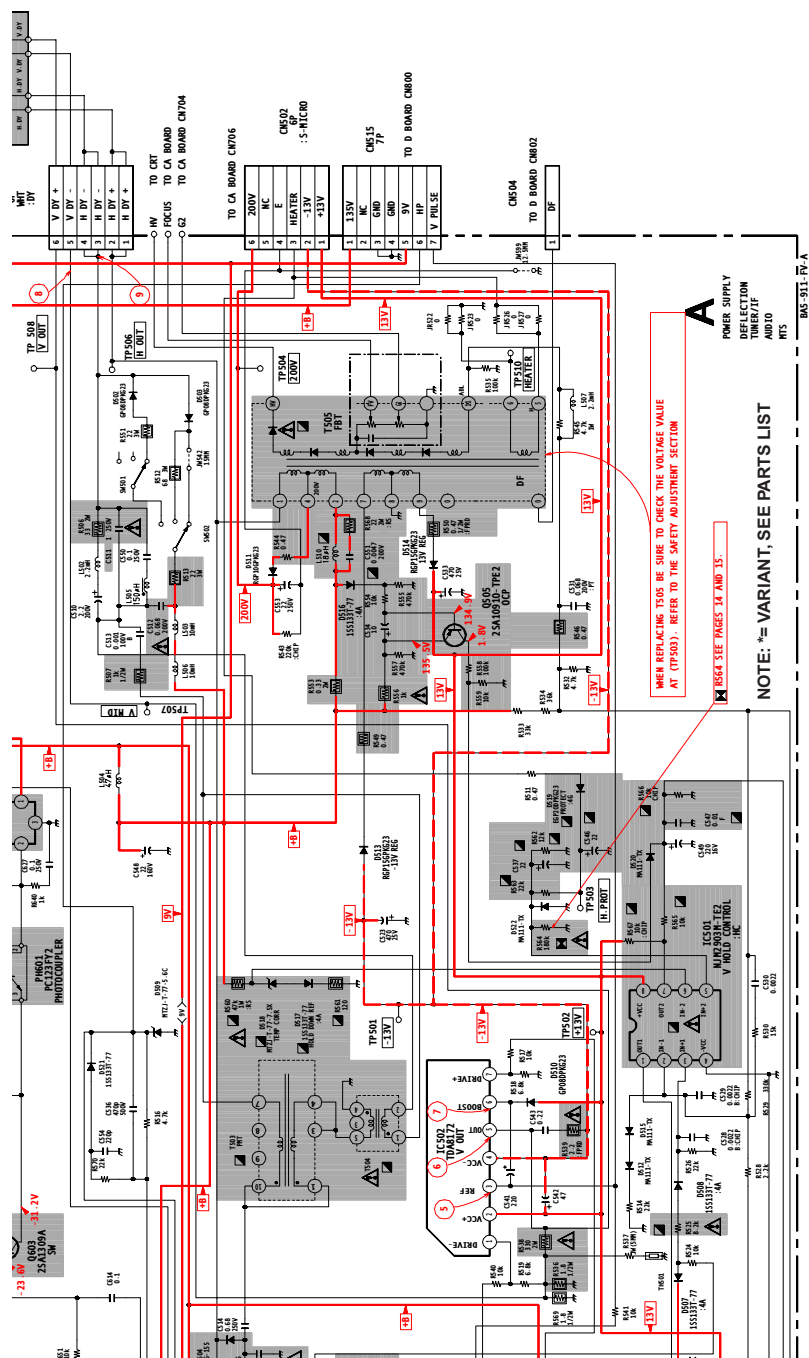
BA5-911-FS-A

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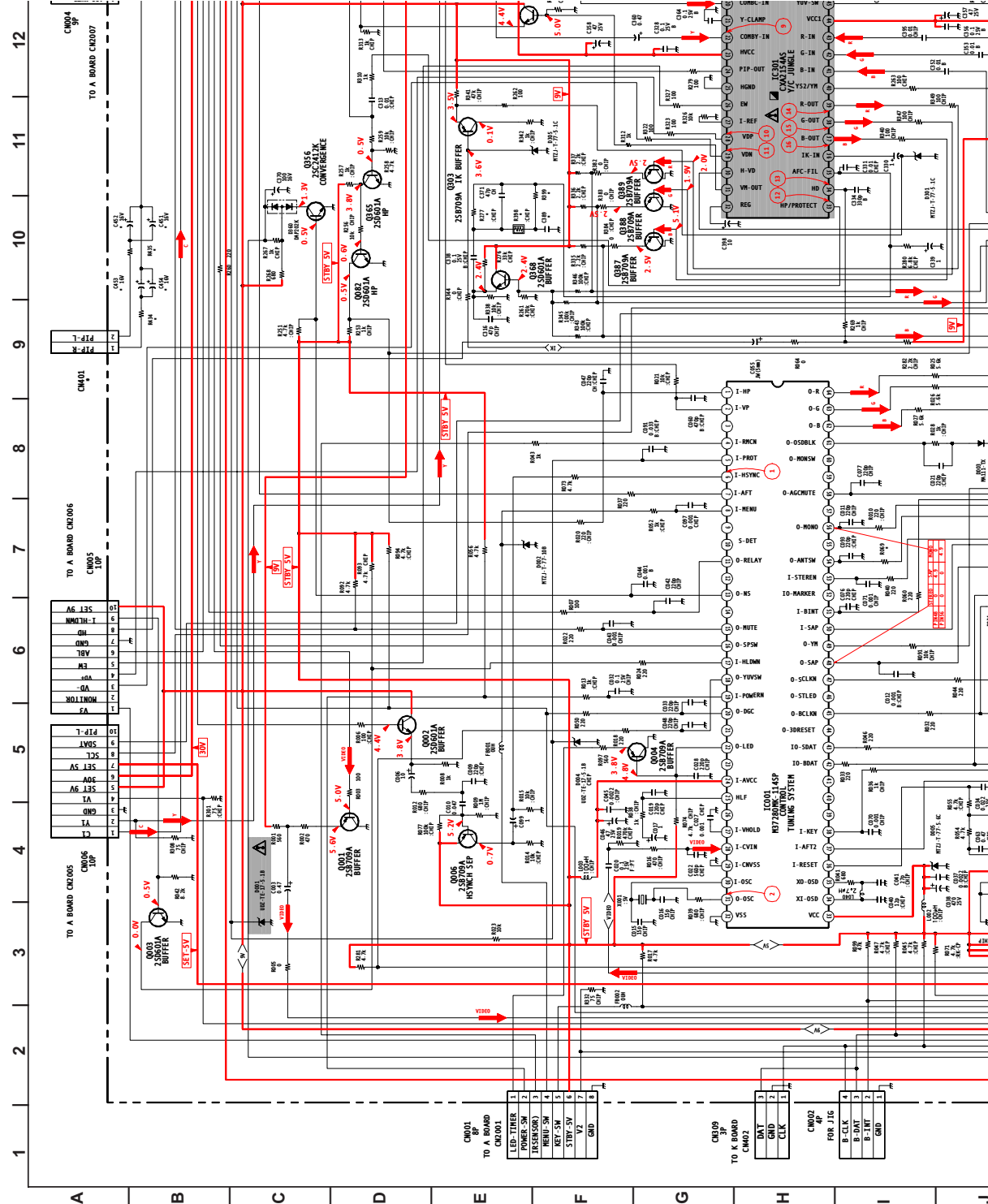
This is a detailed PCB layout for a control system. The layout is organized into several functional blocks, each with its own component list and pin connections.

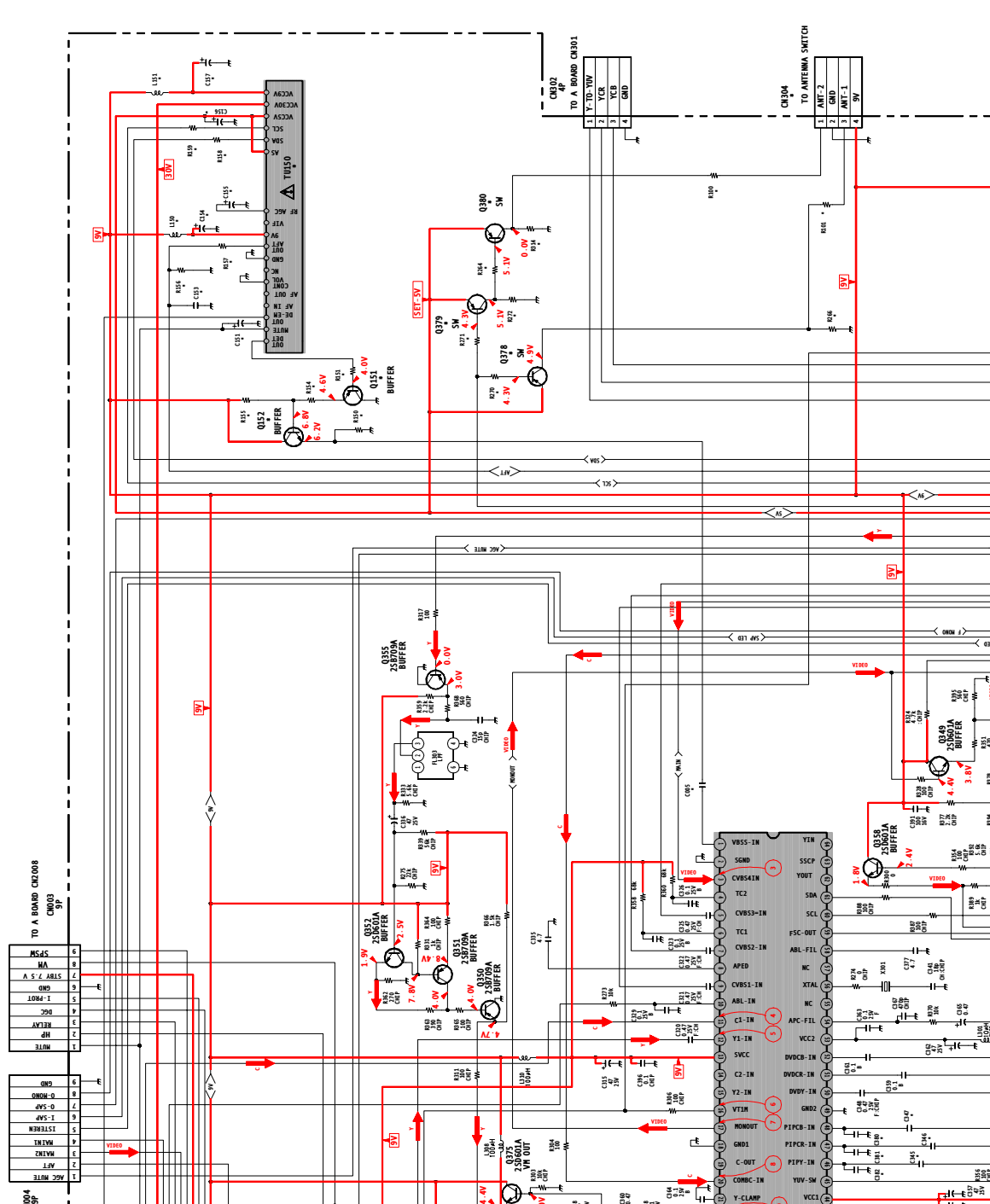
Component Lists:

- CM001 TO A BOARD CM006:**
 - 1. PTP-R
 - 2. PTP-R
 - 3. PTP-R
 - 4. PTP-R
 - 5. PTP-R
 - 6. PTP-R
 - 7. PTP-R
 - 8. PTP-R
 - 9. PTP-R
 - 10. PTP-R
 - 11. PTP-R
 - 12. PTP-R
- CM002 TO K BOARD CM002:**
 - 1. DAT
 - 2. CLK
 - 3. GND
 - 4. GND
 - 5. GND
 - 6. GND
 - 7. GND
 - 8. GND
 - 9. GND
 - 10. GND
 - 11. GND
 - 12. GND
- CM003 TO A BOARD CM005:**
 - 1. FA
 - 2. FA
 - 3. FA
 - 4. FA
 - 5. FA
 - 6. FA
 - 7. FA
 - 8. FA
 - 9. FA
 - 10. FA
 - 11. FA
 - 12. FA
- CM004 TO A BOARD CM007:**
 - 1. PTP-R
 - 2. PTP-R
 - 3. PTP-R
 - 4. PTP-R
 - 5. PTP-R
 - 6. PTP-R
 - 7. PTP-R
 - 8. PTP-R
 - 9. PTP-R
 - 10. PTP-R
 - 11. PTP-R
 - 12. PTP-R

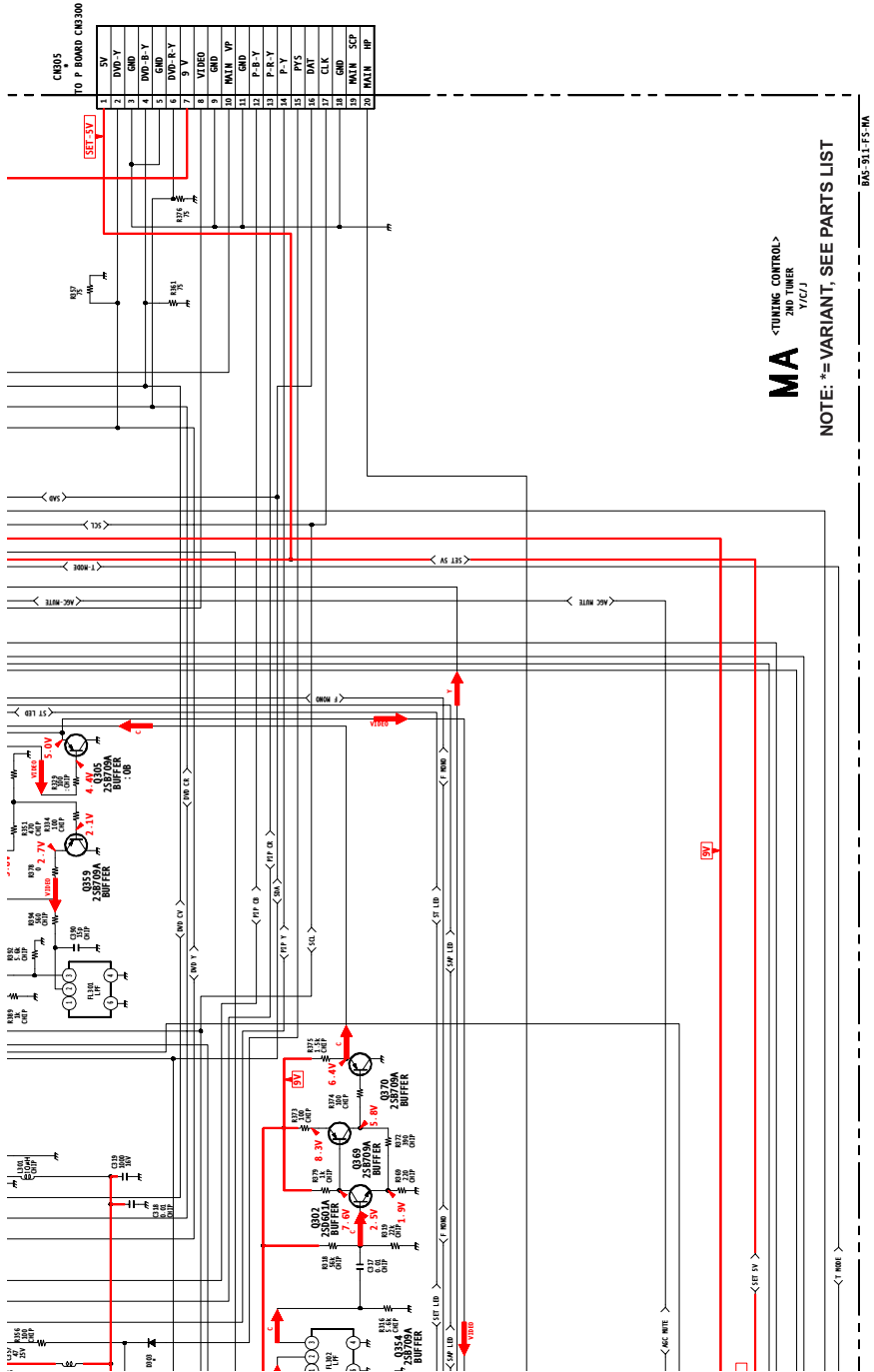
Key Components and Connections:

- CM001:** Includes components like Q001 (258700A), Q002 (258700A), Q003 (258700A), Q004 (258700A), Q005 (258700A), Q006 (258700A), Q007 (258700A), Q008 (258700A), Q009 (258700A), Q010 (258700A), Q011 (258700A), Q012 (258700A), Q013 (258700A), Q014 (258700A), Q015 (258700A), Q016 (258700A), Q017 (258700A), Q018 (258700A), Q019 (258700A), Q020 (258700A), Q021 (258700A), Q022 (258700A), Q023 (258700A), Q024 (258700A), Q025 (258700A), Q026 (258700A), Q027 (258700A), Q028 (258700A), Q029 (258700A), Q030 (258700A), Q031 (258700A), Q032 (258700A), Q033 (258700A), Q034 (258700A), Q035 (258700A), Q036 (258700A), Q037 (258700A), Q038 (258700A), Q039 (258700A), Q040 (258700A), Q041 (258700A), Q042 (258700A), Q043 (258700A), Q044 (258700A), Q045 (258700A), Q046 (258700A), Q047 (258700A), Q048 (258700A), Q049 (258700A), Q050 (258700A), Q051 (258700A), Q052 (258700A), Q053 (258700A), Q054 (258700A), Q055 (258700A), Q056 (258700A), Q057 (258700A), Q058 (258700A), Q059 (258700A), Q060 (258700A), Q061 (258700A), Q062 (258700A), Q063 (258700A), Q064 (258700A), Q065 (258700A), Q066 (258700A), Q067 (258700A), Q068 (258700A), Q069 (258700A), Q070 (258700A), Q071 (258700A), Q072 (258700A), Q073 (258700A), Q074 (258700A), Q075 (258700A), Q076 (258700A), Q077 (258700A), Q078 (258700A), Q079 (258700A), Q080 (258700A), Q081 (258700A), Q082 (258700A), Q083 (258700A), Q084 (258700A), Q085 (258700A), Q086 (258700A), Q087 (258700A), Q088 (258700A), Q089 (258700A), Q090 (258700A), Q091 (258700A), Q092 (258700A), Q093 (258700A), Q094 (258700A), Q095 (258700A), Q096 (258700A), Q097 (258700A), Q098 (258700A), Q099 (258700A), Q100 (258700A), Q101 (258700A), Q102 (258700A), Q103 (258700A), Q104 (258700A), Q105 (258700A), Q106 (258700A), Q107 (258700A), Q108 (258700A), Q109 (258700A), Q110 (258700A), Q111 (258700A), Q112 (258700A), Q113 (258700A), Q114 (258700A), Q115 (258700A), Q116 (258700A), Q117 (258700A), Q118 (258700A), Q119 (258700A), Q120 (258700A), Q121 (258700A), Q122 (258700A), Q123 (258700A), Q124 (258700A), Q125 (258700A), Q126 (258700A), Q127 (258700A), Q128 (258700A), Q129 (258700A), Q130 (258700A), Q131 (258700A), Q132 (258700A), Q133 (258700A), Q134 (258700A), Q135 (258700A), Q136 (258700A), Q137 (258700A), Q138 (258700A), Q139 (258700A), Q140 (258700A), Q141 (258700A), Q142 (258700A), Q143 (258700A), Q144 (258700A), Q145 (258700A), Q146 (258700A), Q147 (258700A), Q148 (258700A), Q149 (258700A), Q150 (258700A), Q151 (258700A), Q152 (258700A), Q153 (258700A), Q154 (258700A), Q155 (258700A), Q156 (258700A), Q157 (258700A), Q158 (258700A), Q159 (258700A), Q160 (258700A), Q161 (258700A), Q162 (258700A), Q163 (258700A), Q164 (258700A), Q165 (258700A), Q166 (258700A), Q167 (258700A), Q168 (258700A), Q169 (258700A), Q170 (258700A), Q171 (258700A), Q172 (258700A), Q173 (258700A), Q174 (258700A), Q175 (258700A), Q176 (258700A), Q177 (258700A), Q178 (258700A), Q179 (258700A), Q180 (258700A), Q181 (258700A), Q182 (258700A), Q183 (258700A), Q184 (258700A), Q185 (258700A), Q186 (258700A), Q187 (258700A), Q188 (258700A), Q189 (258700A), Q190 (258700A), Q191 (258700A), Q192 (258700A), Q193 (258700A), Q194 (258700A), Q195 (258700A), Q196 (258700A), Q197 (258700A), Q198 (258700A), Q199 (258700A), Q200 (258700A), Q201 (258700A), Q202 (258700A), Q203 (258700A), Q204 (258700A), Q205 (258700A), Q206 (258700A), Q207 (258700A), Q208 (258700A), Q209 (258700A), Q210 (258700A), Q211 (258700A), Q212 (258700A), Q213 (258700A), Q214 (258700A), Q215 (258700A), Q216 (258700A), Q217 (258700A), Q218 (258700A), Q219 (258700A), Q220 (258700A), Q221 (258700A), Q222 (258700A), Q223 (258700A), Q224 (258700A), Q225 (258700A), Q226 (258700A), Q227 (258700A), Q228 (258700A), Q229 (258700A), Q230 (258700A), Q231 (258700A), Q232 (258700A), Q233 (258700A), Q234 (258700A), Q235 (258700A), Q236 (258700A), Q237 (258700A), Q238 (258700A), Q239 (258700A), Q240 (258700A), Q241 (258700A), Q242 (258700A), Q243 (258700A), Q244 (258700A), Q245 (258700A), Q246 (258700A), Q247 (258700A), Q248 (258700A), Q249 (258700A), Q250 (258700A), Q251 (258700A), Q252 (258700A), Q253 (258700A), Q254 (258700A), Q255 (258700A), Q256 (258700A), Q257 (258700A), Q258 (258700A



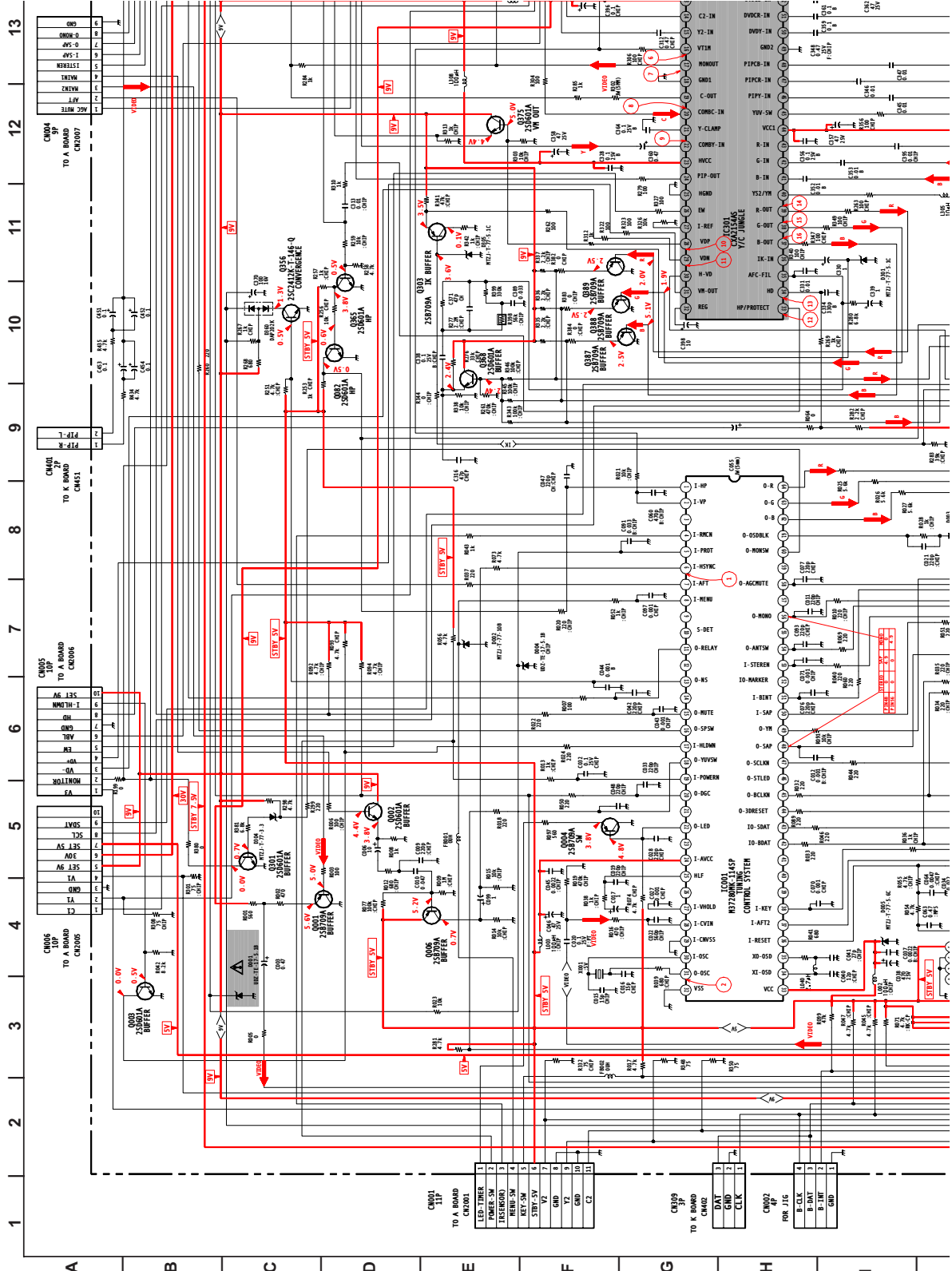


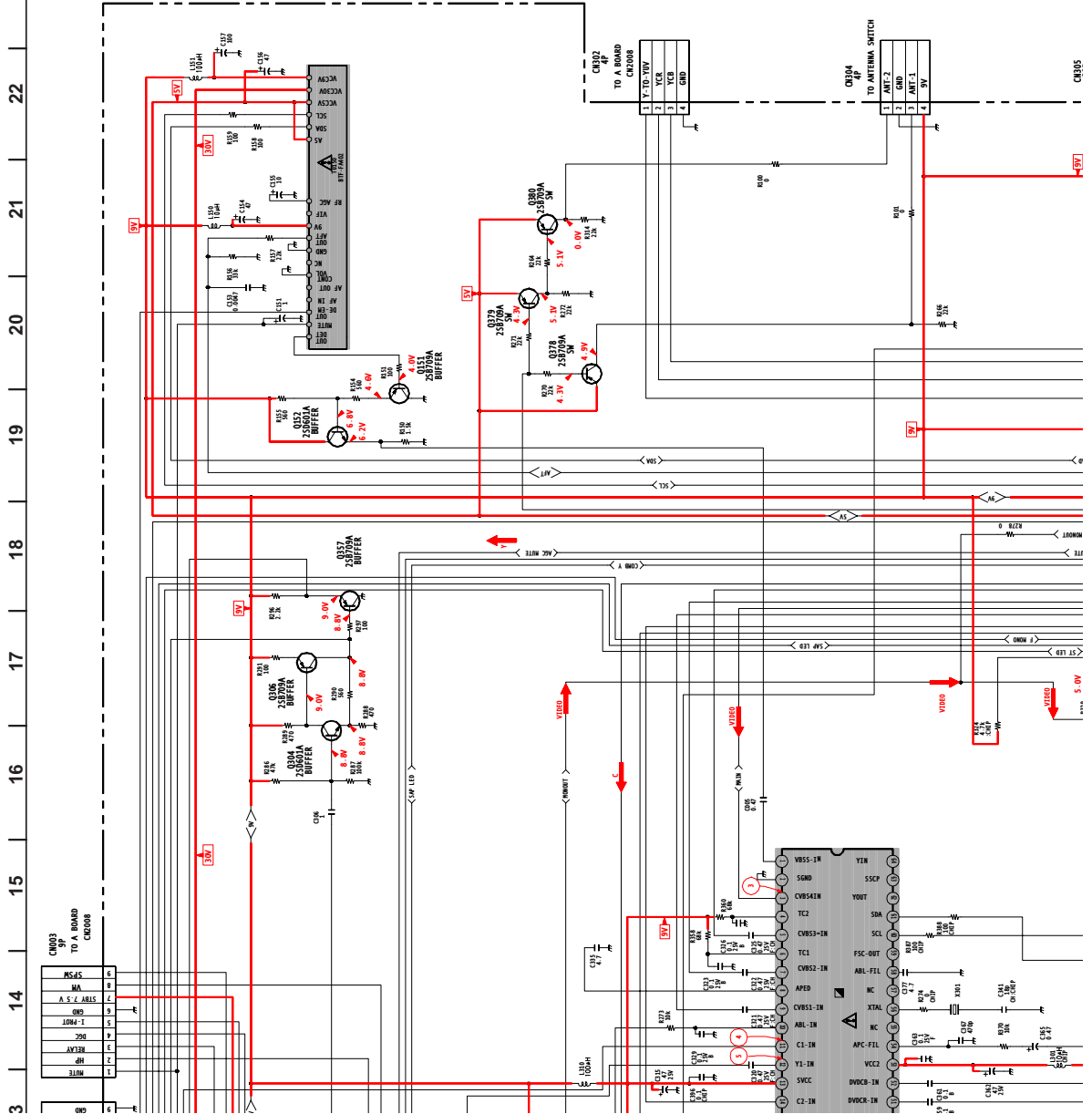


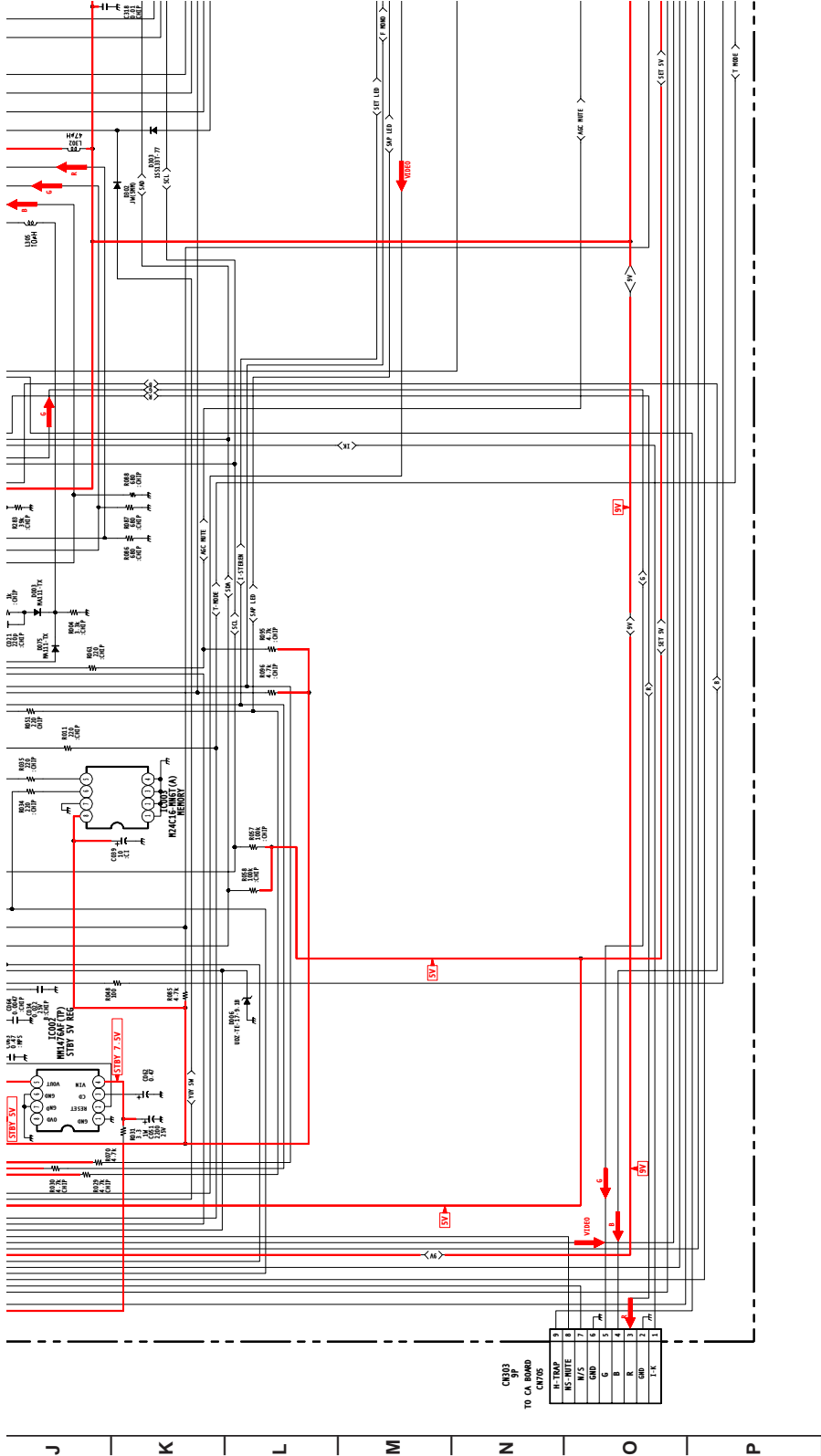


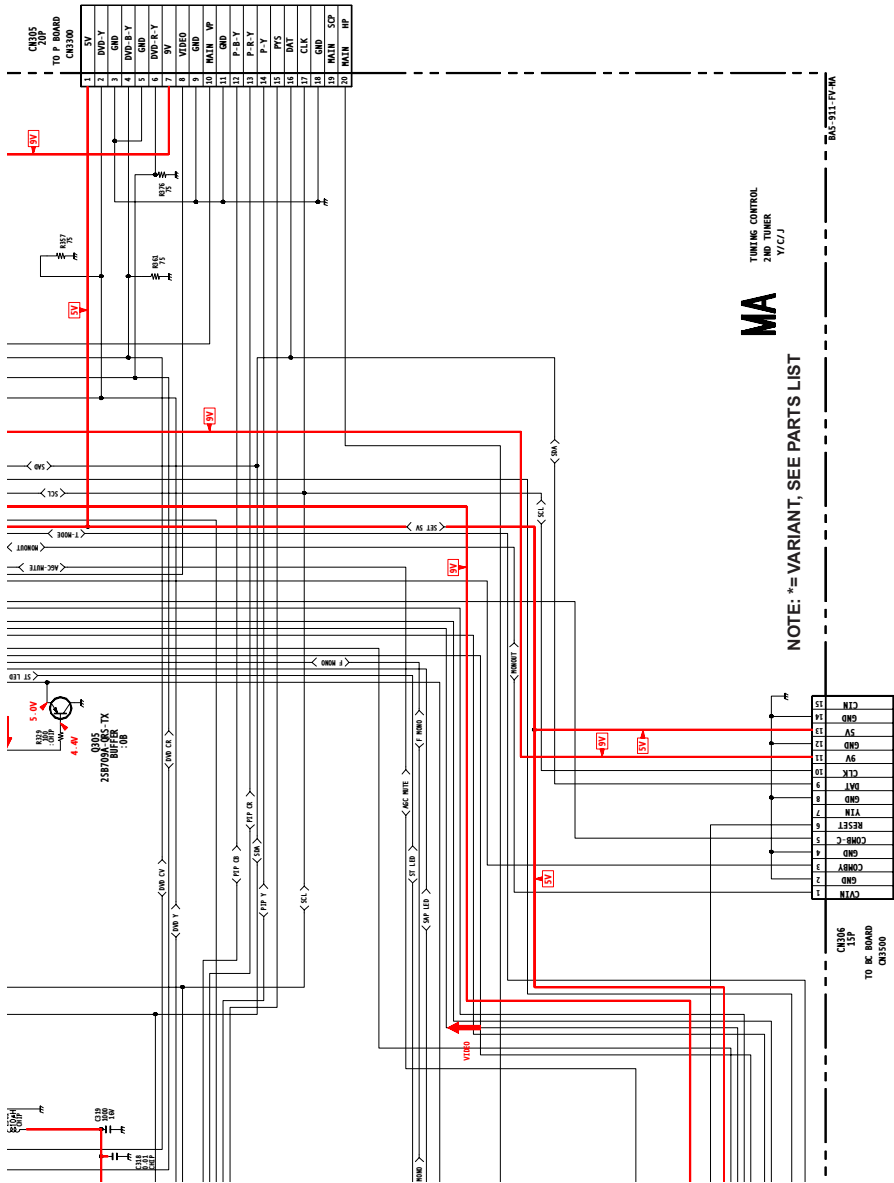
MA <TUNING CONTROL>
2ND TUNER
Y/C/J

NOTE: * = VARIANT, SEE PARTS LIST

[illegible]







PRINTING THE SERVICE MANUAL

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convenience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS


If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

- 1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS



Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.


If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

- 1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape () mode.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

- 1) To view the Graphics Select Tool, press and HOLD the mouse button over the Text Select Tool which looks like: . This tool will expand to reveal additional tools. Choose the Graphics Select tool by placing the cursor over the button on the far right that looks like: .
- 2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.
- 3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee. 

(continued >)

ON-SCREEN SEARCH OPTION

All of the text within the service manual PDF is content searchable. This means that you can enter any text, word, phrase or reference number that appears in the manual, and the PDF software will search, find and move the cursor to the location where you requested text first appears. This feature can be particularly useful in locating components on a specific schematic or printed wire circuit board (PWB) diagrams.

Follow these steps to effectively locate a component on a schematic diagram:

- 1) Locate the schematic you want to search by clicking on the corresponding bookmark on the left side of the screen. The view on the right of the screen will then jump to the desired schematic page.
- 2) Magnify the diagram to at least 400% before conducting a component search. This will enable you to easily view the reference number when it is highlighted on screen. To do this, click on the magnifying glass button on the tool bar at the top of the screen. Move the cursor over the diagram and RIGHT click you mouse. Select the 400% magnification option on the pop-up menu. Click on the button with the icon of the open hand to deactivate the magnification tool
- 3) Search the diagram (or the entire manual) by clicking on the binocular button tool at the top of the screen. The "Find" window will appear and allow you to type in your desired text. Type in a reference designator, such as R502, and click on the "Find" button. If the component is not on the diagram, but is listed anywhere else in the manual, the cursor will jump to the first location the text is found in the file. To find another instance of that same text, click on the binocular button again and select "Find Again."

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

BA-5 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KV-27FS13	RM-Y180	USA	SCC-S40NA
KV-27FS13	RM-Y180	CND	SCC-S41LA
KV-27FS17	RM-Y181	USA	SCC-S40PA
KV-27FV17	RM-Y181	USA	SCC-S40MA
KV-27FV17	RM-Y181	CND	SCC-S41KA
KV-29FV17	RM-Y181	E	SCC-S38XA
KV-29FV17C	RM-Y181	E	SCC-S38YA
KV-32FS13	RM-Y180	USA	SCC-S40QA
KV-32FS13	RM-Y180	CND	SCC-S41MA
KV-32FS17	RM-Y181	USA	SCC-S40RA
KV-34FS13C	RM-Y180	E	SCC-S56DA
KV-34FS17	RM-Y181	E	SCC-S56JA

ORIGINAL MANUAL ISSUE DATE: 3/2001

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

<u>REVISION DATE</u>	<u>REVISION TYPE</u>	<u>SUBJECT</u>
3/2001	No revisions or updates are applicable at this time.	
9/2002	CORRECTION-1	Exploded View part number correction for Door.
10/2002	CORRECTION-2	New 2 Pin THP601

TRINITRON® COLOR TELEVISION
SONY®

SERVICE MANUAL

BA-5 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KV-27FS13	RM-Y180	USA	SCC-S40NA
KV-27FS13	RM-Y180	CND	SCC-S41LA
KV-27FS17	RM-Y181	USA	SCC-S40PA
KV-27FV17	RM-Y181	USA	SCC-S40MA
KV-27FV17	RM-Y181	CND	SCC-S41KA
KV-29FV17	RM-Y181	E	SCC-S38XA
KV-29FV17C	RM-Y181	E	SCC-S38YA
KV-32FS13	RM-Y180	USA	SCC-S40QA
KV-32FS13	RM-Y180	CND	SCC-S41MA
KV-32FS17	RM-Y181	USA	SCC-S40RA
KV-34FS13C	RM-Y180	E	SCC-S56DA
KV-34FS17	RM-Y181	E	SCC-S56JA

CORRECTION - 1

SUBJECT: EXPLODED VIEW PARTS NUMBER CORRECTION

Correct the service manual as shown.
File this Correction with the service manual.

 : Corrected Item

Section 6: Exploded View (Page 57 & 60)

6-2. Picture Tube Removal (KV-27FV17/29FV17/29FV17C ONLY)

6-5. Picture Tube Removal

(KV-27FS13/27FS17/32FS13/32FS17/34FS13C/34FS17 ONLY)

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 : Corrected Item



Section 6: Exploded View (Page 57 & 60)

6-2. Picture Tube Removal (KV-27FV17/29FV17/29FV17C ONLY)

INCORRECT

REF. NO.	PART NO.	DESCRIPTION
3	X-4037-631-3	DOOR

CORRECT

REF. NO.	PART NO.	DESCRIPTION
 3	X-4037-631-4	DOOR
	(KP-27FV17 ONLY)	
 3	X-4037-631-1	DOOR
	(KP-29FV17/29FV17C ONLY)	



6-5. Picture Tube Removal

(KV-27FS13/27FS17/32FS13/32FS17/34FS13C/34FS17 ONLY)

INCORRECT

REF. NO.	PART NO.	DESCRIPTION
3	4-075-658-21	DOOR (KV-34FS13C/34FS17 ONLY)
3	4-075-658-31	DOOR
	(KP-27FS13/27FS17/32FS13/32FS17 ONLY)	

CORRECT

REF. NO.	PART NO.	DESCRIPTION
 3	4-075-658-11	DOOR (KV-34FS13C/34FS17 ONLY)
 3	4-075-658-21	DOOR
	(KP-27FS13/27FS17/32FS13/32FS17 ONLY)	

SERVICE MANUAL

BA-5 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KV-27FS13	RM-Y180	USA	SCC-S40NA
KV-27FS13	RM-Y180	CND	SCC-S41LA
KV-27FS17	RM-Y181	USA	SCC-S40PA
KV-27FV17	RM-Y181	USA	SCC-S40MA
KV-27FV17	RM-Y181	CND	SCC-S41KA
KV-29FV17	RM-Y181	E	SCC-S38XA
KV-29FV17C	RM-Y181	E	SCC-S38YA
KV-32FS13	RM-Y180	USA	SCC-S40QA
KV-32FS13	RM-Y180	CND	SCC-S41MA
KV-32FS17	RM-Y181	USA	SCC-S40RA
KV-34FS13C	RM-Y180	E	SCC-S56DA

CORRECTION - 2

SUBJECT: NEW 2 PIN THP601

Correct the service manual as shown.
File this Correction with the service manual.

SECTION 6: DIAGRAMS

6-3. A Board Schematic Diagram (Page 32, 33)

SECTION 8: ELECTRICAL PARTS LIST (Page 67, 73, 74-78)

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SONY®

 : Corrected Item

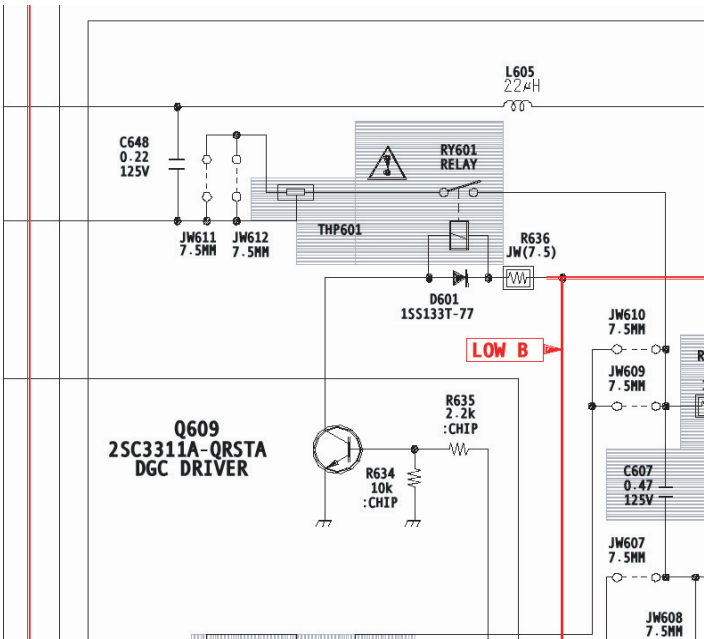
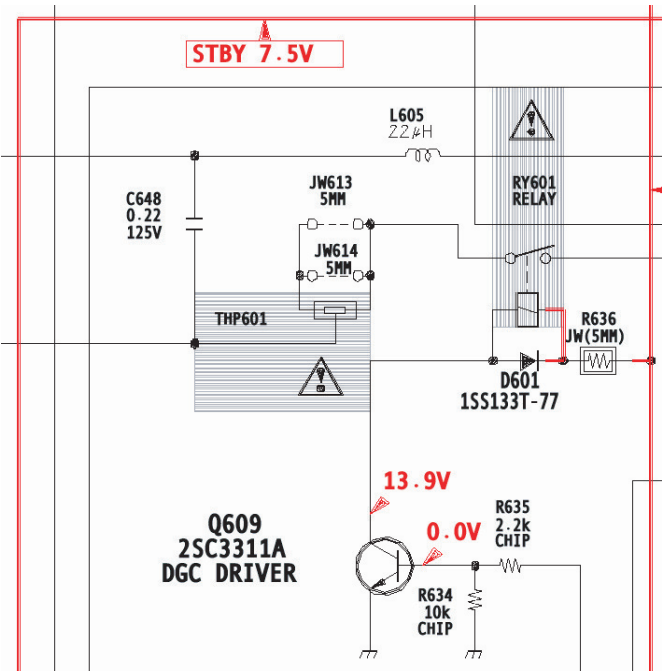
SECTION 6: DIAGRAMS

6-3.A Board Schematic Diagram (Page 32, 33,)

If a set requires a 3 pin (THP601) thermistor it may still be ordered using the existing part number. If a set requires a 2 pin (THP601) thermistor the new part number must be used.

For 3 Pin Configuration






For 2 Pin Configuration



SECTION 8: ELECTRICAL PARTS LIST (Page 67, 73, 74-78)

OLD

NEW

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
 THP601	1-803-540-11	THERMISTOR (3 PIN)	 THP601	1-803-540-11	THERMISTOR (3 PIN)
	[OR]			[OR]	
 THP601	1-803-629-11	THERMISTOR (3 PIN)	 THP601	1-803-629-11	THERMISTOR (3 PIN)
			 THP601	1-804-313-11	THERMISTOR (2 PIN)

