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CAUTION: BEFORE SERVICING THE CHASSIS, READ THE “X-RAY RADIATION PRECAUTION” “SAFETY PRECAUTION” ON PAGE 1 AND “PRODUCT SAFETY NOTICE” ON PAGE 2 OF THIS MANUAL.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X - RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The normal value of the high voltage of this receiver is 27.5kV at zero beam current (minimum brightness) under a 120V AC power source. The high voltage must not, under any circumstances, exceed 30kV.
2. Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended the reading of the high voltage be recorded as a part of service record. It is important to use an accurate and reliable high voltage meter.
3. This receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, the FS circuit must be checked to determine that the circuit is properly functioning, following the FS CIRCUIT CHECK procedure in this manual.
4. The primary source of X- RAY RADIATION in this TV receiver is the picture tube. For continuous X- RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
5. Some parts in this receiver have special safety-related characteristics for X- RAY RADIATION protection. For continuous safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

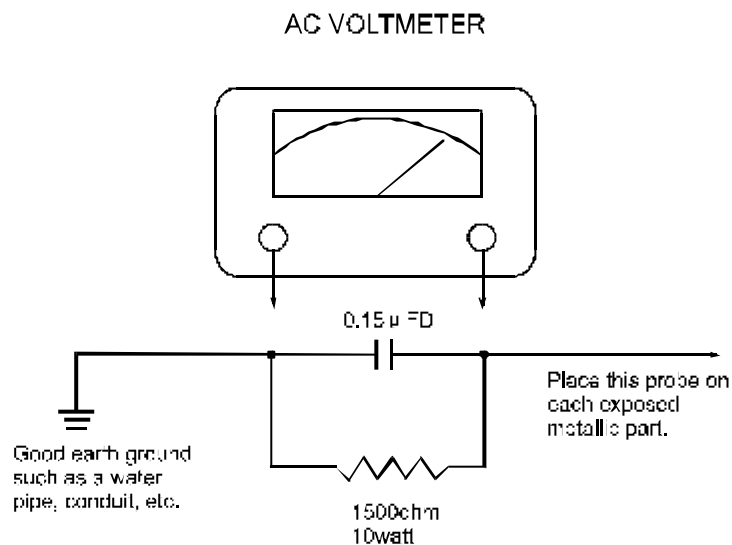
WARNING:

Service should not be attempted by anyone unfamiliar with the necessary precaution on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. Since the power supply circuit of this receiver is directly connected to the AC power line, an isolation transformer should be used during any dynamic service to avoid possible shock hazard.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as: non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4. When replacing parts or circuit boards, disconnect the power cord.
5. When replacing a high wattage resistor (oxide metal film resistor) on the circuit board, keep the resistor 10mm (1/2in) away from circuit board.
6. Connection wires must be kept away from components with high voltage or high temperature.
7. If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.

8. Before returning the set to your customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner:

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 μ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

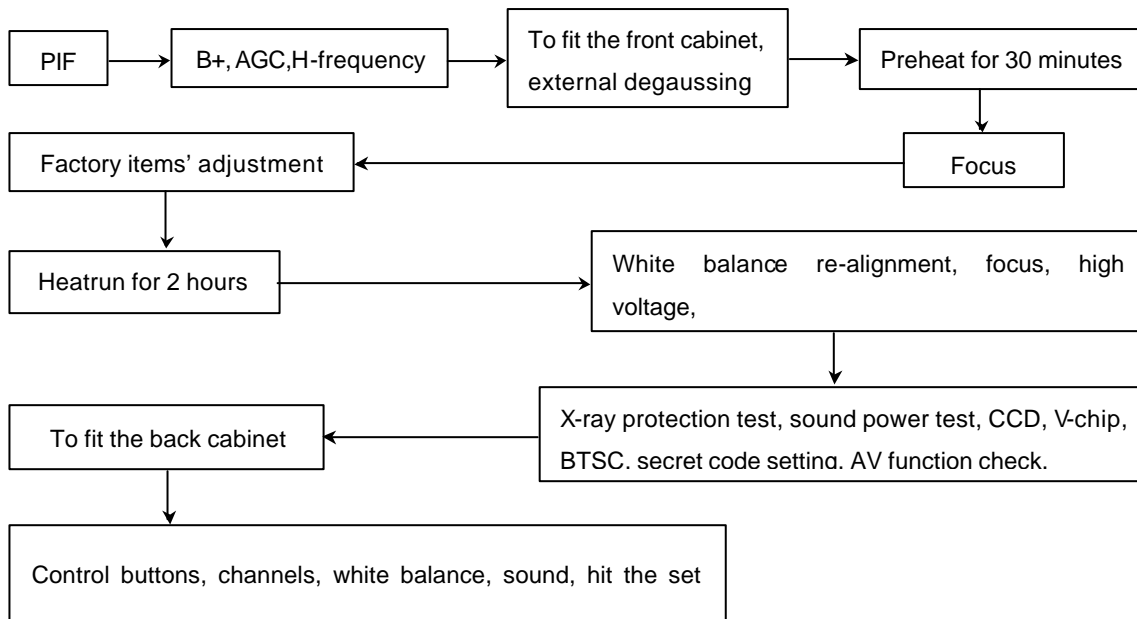


PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-RAY RADIATION protection afforded by them cannot necessarily be obtained by using replacement components rated for higher wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplement electrical components having such features are shaded on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same characteristic as specified in the parts list may create shock, fire, X-RAY RADIATION or other hazards.

THE ALIGNMENT FLOW CHART



INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL

In the majority of cases, a color television receiver will need only slight touch-up adjustment upon installation. Check the basic characteristics such as FS, EHV and focus. Observe the picture for good black and white details without objectionable color shading. If color shading is evident, demagnetize the receiver.

If color shading still persists, perform purity and convergence adjustments. This should be all that is necessary to achieve optimum receiver performance.

FOCUS ADJUSTMENT

Adjust the FOCUS control (on T471) for well defined scanning lines on the picture screen.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

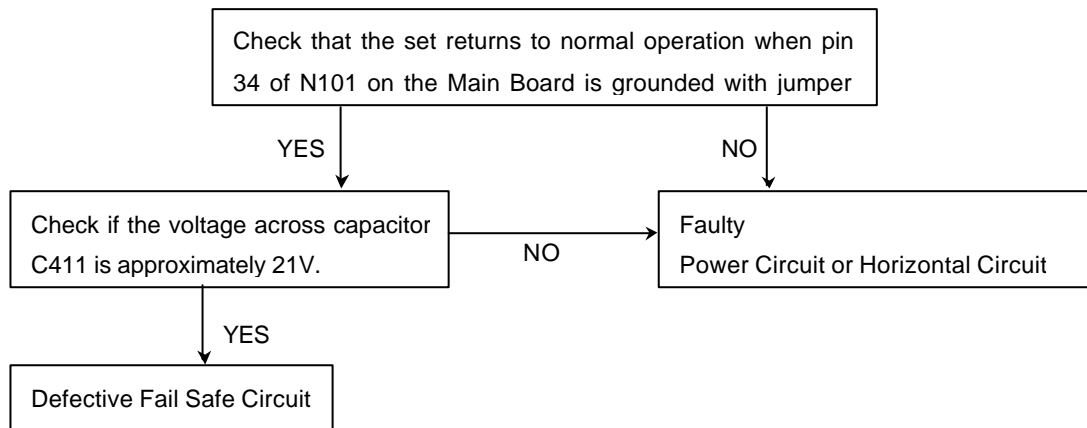
1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage will be measured about 27.5kV.
4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

FS CIRCUIT CHECK

The Fail Safe (FS) circuit check is indispensable for the final check in the servicing. Checking should be done following the steps below.

1. Turn the power switch on and adjust customer controls for normal operation.
2. Temporarily short R412 on the Main Board with a jumper wire. Raster and sound will disappear.
3. The receiver must remain in this state even after removing the jumper wire. This is the evidence that the FS circuit is functioning properly.
4. To obtain a picture again, temporarily turn the receiver off and allow the FS circuit more than 30 seconds to reset. Then turn the power switch on to produce a normal picture.

Troubleshooting Guide for Fail Safe Circuit



PIF alignment

- 1) Apply DC 12V to output pin of N551(pin3 of N551) , connect pin7 of LA76814(N101) to GND.
- 2) Apply 95dBμ , 45.75MHz RF signal to the tuner's IF pin through a 1000P ceramic capacitor. Connect the DC voltmeter's pole to LA76814 pin 47 , pole to GND.
Note: For LA76814 ES01 version, the voltmeter's pole should connect to pin50 .
- 3) Adjust T202 with a non-inductive screwdriver until the reading on the DC voltmeter is DC $3.6V \pm 0.01V$.

B+ CHECK

- 1) Prepare the test equipment.
- 2) Use the DC voltmeter at DC 200V position to test VD551 , i.e. B+.
- 3) Connect the power plug to AC 120V/60Hz, turn on the power switch, wait for normal raster, then adjust RP551 to make $B+ = 130V \pm 0.5V$.

Test point	VD551	VD556	VD554	VD555
DC(V)	130	25	15	18

TEST EQUIPMENT

- 1) DC regulated power supply PAB18-1.8
- 2) Audio voltmeter
- 3) Oscilloscope
- 4) High-voltage meter
- 5) Digital multimeter
- 6) AC voltmeter

TEST MODE SET(CHECK)

TEST MODE ADJUSTMENT INSTRUCTION

TEST MODE adjustment is a special adjustment which is controlled by I²C BUS. The TV set has been set at optimum mode at the factory. Except for special need, such as replacing CRT、MEMORY、 IC etc., it is hoped not to adjust it. To conduct TEST MODE's adjustment, please do it according to the following steps:

There are two special remote controller for the set. One is "Under Adjustment" and the other is "Under Adjustment for W/B Balance".

- 1) Press "PROD" button to enter the FACTORY, B/W BALANCE, ADJUST or SETUP mode.
- 2) In B/W BALANCE mode, select the item you want to adjust directly by pressing the button on the "Under Adjustment for W/B Balance" remote controller and use the "ADJ+" or "ADJ-" button to adjust. You can press "ADJUP" or "ADJDOWN" to select needed adjustment item and use the "ADJ+" or "ADJ-" button to adjust too.
- 3) In ADJUST mode, select the item you want to adjust directly by pressing the button on the "Under Adjustment" remote controller and use the "ADJ+" or "ADJ-" button to adjust. You can press "ADJUP" or "ADJDOWN" to select needed adjustment item and use the "ADJ+" or "ADJ-" button to adjust too.
- 4) In SETUP mode, select the item you want to adjust by pressing the button "ADJUP" or "ADJDOWN" on the "Under Adjustment". Then use the "ADJ+" or "ADJ-" button to adjust.
- 5) Press "PROD" to exit the TEST MODE.

H-blanking, H-center adjustment

- 1) Receive test signal, enter into the ADJUST mode.
- 2) Select the H.BLK.LEFT and H.BLK.RIGHT item, adjust the level to make the H -blanking amount on the left and right screen at an appropriate position.
- 3) Select the H.PHASE item, adjust the level to make the left and right picture symmetrical.

H-Size, E/W correction

Receive test signal, adjust RP302 to make Horizontal size right, and adjust RP301 to make E/W correction right.

V-amplitude, linearity, S-correction, center adjustment

- 1) Receive test signal, enter into the ADJUST mode. adjust the value to make V-center and the CRT's
- 2) Select the V.POS item , adjust the value to make V-center and the CRT's geometric center is in accordance. Then select the V.SIZE item, adjust the value to make the overscan is less than or

Equate 10% .

- 2) Select the V.LINE item, adjust the value to make the upper and lower grid's(on the screen) vertical distance equal. Select the V.SC item, adjust the value to make the vertical distance from upper grid to middle screen is equal to the vertical distance from lower grid to middle screen.
- 3) Repeat the above steps 2) &3) to make the V-center, V-amplitude, V-linearity at the optimum mode.

White balance, sub-brightness adjustment

- 1) Receive test signal, enter into B/W BALANCE mode with the special remote controller of "Under Adjustment for B/W BALANCE".
- 2) Set the value of item as the following table:

Name	Value	Default	Description
S-BRI	0~127	-	Sub Brightness
R-BIA	0~255	-	Red Bias
G-BIA	0~255	-	Green Bias
B-BIA	0~255	-	Blue Bias
R-DRV	0~127	65	Red Drive
G-DRV	0~15	7	Green Drive
B-DRV	0~127	65	Blue Drive
C.B/W	0~3	0	Cross B/W

- 3) Set the value of S-BRI=85, then press "LINE" button. Adjust the SCREEN potentiometer clockwise until a slight bright horizontal line appears on the screen. Adjust the value of R-BIA, G-BIA and B-BIA, until the line change white. Press "LINE" button again. Then decrease S-BRI to a proper value.
- 4) Press "LINE" button to exit B/W BALANCE mode.

ADJUST MENU LIST

Receive test signal, enter into ADJUST mode with the special remote controller of "Under Adjustment".

Item	Name	Description	Value	Default
00*	H.PHASE	H.PHASE	0~31	13
01**	NT.H.PHASE		0~31	00
02**	H.BLK.LEFT		0~7	7
03**	H.BLK.RIGHT		0~7	0
04*	V.SIZE	Vertical Size	0~127	82
05*	V.LINE	Vertical Linearity	0~31	3
06*	V.POSI	Vertical DC	0~63	33
07*	V.SC	Vertical S-Correction	0~31	6
08**	NT.V.SIZE		-32~+31	00
09**	NT.V.LINE		-16~+15	00
10**	NT.V.POSI		-32~+31	00
11**	NT.V.SC		-16~+15	00
12	RF.AGC	RF AGC Delay	0~63	30
13	VOL.OUT	Volume Control	0~127	127
14	OSD.H.POSI		0~127	11
15	OSD.V.POSI		0~31	16

16	INPUT LEVEL		0~15	7
17	SPECTRAL		0~63	0
18	WIDE BAND		0~63	0
19	STEREO		0~63	63
21	FILTER SET		0~31	63
22	SAP VCO		0~63	63

Note: 1.All the items sign with "*" can adjust to different value for different TV set.

2.All the items sign with "***" do not affect the IC of La76814.

ADJUST MENU LIST

Receive test signal, enter into ADJUST mode with the special remote controller of "Under Adjustment".

Item	Name	Description	Default
00	LA76814/LA76812	0:LA76814; 1:LA76812	0
01	SAP IC SELECT	0:TDA9850; 1:CXA2104; 2:TDA9855; 3:UPC1851B	0
02	SUB.CONT	Subcontrast(0~31)	15
03	SUB.COLOR	Subcolor(0~63)	31
04	SUB.SHARP	Subsharpness(0~31)	15
05	SUB.TINT	Subtint(0~63)	31
06	BLK.STR.DEF	Black Stretch Definition(0:on; 1:off)	1
07	AFC GAIN	AFC Gain(0:low; 1:high)	1
08	V.SETUP	Vertical Synchronization Separate Sense(0:low; 1:high)	1
09	CD.MODE	Count Down Mode(LA76814:0/1;LA76812:0~7)	0
10	DIGITAL OSD	Digital OSD(0:Analog; 1:Digital)	1
11	OSD CONT	OSD Contrast(0~127)/LA76814(0~3)	2
12	GRAY MOD	Gray Mode(0/1)	0
13	B.GAMSEL	Blue γ Selection(0~3)	2
14	RG.GAM.DEF	Red&Green γ Definition(0/1)	0
15	FBPBLK.SW	FBPBLK.SW(0/1)	0
16	BRIGHT ABL.TH	Bright.Abl.Threshold(0~7)	0
17	EMG.ABL.DEF	Emg.Abl.Def(0/1)	0
18	BRT.ABL.DEF	Brt.Abl.Def(0/1)	0
19	MID.STP.DEF	Mid.Stp.Def(0/1)	0
20	R-Y/B-Y G.BL	R-Y/B-Y Gain Balance(0~15)(None for)(LA76814)	8
21	R-Y/B-Y ANG	R-Y/B-Y Angle(0~15)	8
22	C.KILL.OFF	C_Kill OFF(0/1)	0
23	SND.TRAP	Sound Trap(0~7)	3
24	VOL.FIL	Volume Filter Defeat(0/1)	1
25	VIF.SYS.SW	Video IF(0:45.75M;1:58.75M)	0
26	VIDEO.LEVEL	Video Level(0~7)	7
27	FM.LEVEL	FM Level(31)	16
28	POWER OPT	0:Twice On; 1:Memory; 2or3:Once On	1
29	POWER FLAG	0:No Power On Screen;1:Power On Screen	0
30	SEARCH CHECK	0:No Power On Search;1:Power On Search	1
31	SEARCH SPEED	0:Slow;1:Quick	0
32	AV OPTION	AV Input (0:No; 1:1; 2:2; 3:3)	2
33	POSITION L/R	Position of CH Number(0:Upper Left;1:Upper Right)	1
34	BLUE BACK	Blue Back When No Signal(0:Off; 1:On)	1
35	BLACK BACK	Black Back When Switch Channel(0:Off;1:On)	0

36	STEREO OPTION	Stereo Option(0:off;1:on)	1
37	WOOFER/H.PHONE	0:Woofer;1:Headphone	0
38	WOOFER VOL.OPT	Volume of H.Phone(0:No Woofer;1:Woofer)	0
39	SENSITIVITY	Sensitivity Function(0:off;1:on)	0
40	V.MUTE P.OFF	Cut Video Out Before Power Off(0:on; 1:off)	0
41	CCD OPTION	CCD Function(0:off; 1:on)	1
42	V-CHIP OPTION	V-CHIP Function(0:off; 1:on)	1
43	PASSWORD OPT	Password of V-CHIP(0:off;1:on)	1
44	COMB.OPTION	Y/C Separate Function(0:off;1:on)	0
45	TUNER OPTION	0:TDF-3M3;1:PHOLIPUV1336B	1
46	GAME OPTION	Game Option(0:on; 1:off)	1
47	SCREEN OPTION	0:No Screen;1:Screen When Power On;2:ScreenWhen Power Off;3:Screen When Power On/Off	0

USA CHANNEL FREQUENCY TABLE

U.S.A. Channel

PIF 45.75MHZ, CIF 42.17MHZ, SIF 41.25MHZ.

UNIT:MHZ

Channel	fp(pi ctu re)	fs(sound)		Channel	fp(pi ctu re)	fs(sound)
2	55. 25	59. 75		36	603. 25	607. 75
3	61. 25	65. 75		37	609. 25	613. 75
4	67. 25	74. 75		38	615. 25	619. 75
5	77. 25	81. 75		39	621. 25	625. 75
6	83. 25	87. 75		40	627. 25	631. 75
7	175. 25	179. 75		41	633. 25	637. 75
8	181. 25	185. 75		42	639. 25	643. 75
9	187. 25	191. 75		43	645. 25	649. 75
10	193. 25	197. 75		44	651. 25	655. 75
11	199. 25	203. 75		45	657. 25	661. 75
12	205. 25	209. 75		46	663. 25	667. 75
13	211. 25	215. 75		47	669. 25	673. 75
14	471. 25	475. 75		48	675. 25	679. 75
15	477. 25	481. 75		49	681. 25	685. 75
16	483. 25	487. 75		50	687. 25	691. 75
17	489. 25	493. 75		51	693. 25	697. 75
18	495. 25	499. 75		52	699. 25	703. 75
19	501. 25	505. 75		53	705. 25	709. 75
20	507. 25	511. 75		54	711. 25	715. 75
21	513. 25	517. 75		55	717. 25	721. 75
22	519. 25	523. 75		56	723. 25	727. 75
23	525. 25	529. 75		57	729. 25	733. 75
24	531. 25	535. 75		58	735. 25	739. 75
25	537. 25	541. 75		59	741. 25	745. 75
26	543. 25	547. 75		60	747. 25	751. 75
27	549. 25	553. 75		61	753. 25	757. 75
28	555. 25	559. 75		62	759. 25	763. 75
29	561. 25	565. 75		63	765. 25	769. 75
30	567. 25	571. 75		64	771. 25	775. 75
31	573. 25	577. 75		65	777. 25	781. 75
32	579. 25	583. 75		66	783. 25	787. 75
33	585. 25	589. 75		67	789. 25	793. 75
34	591. 25	595. 75		68	795. 25	799. 75
35	597. 25	601. 75		69	801. 25	805. 75

USA CHANNEL FREQUENCY TABLE

U.S.A. CATV Channel

PIF 45.75MHZ, CIF 42.17MHZ, SIF 41.25MHZ.

UNIT:MHZ

Channel	fp(pi ctu re)	fs(sound)		Channel	fp(pi ctu re)	fs(sound)
1	73. 25	77. 75		36	295. 25	299. 75
2	55. 25	59. 75		37	301. 25	305. 75
3	61. 25	65. 75		38	307. 25	311. 75
4	67. 25	74. 75		39	313. 25	317. 75
5	77. 25	81. 75		40	319. 25	323. 75
6	83. 25	87. 75		41	325. 25	329. 75
7	175. 25	179. 75		42	331. 25	335. 75
8	181. 25	185. 75		43	337. 25	341. 75
9	187. 25	191. 75		44	343. 25	347. 75
10	193. 25	197. 75		45	349. 25	353. 75
11	199. 25	203. 75		46	355. 25	359. 75
12	205. 25	209. 75		47	361. 25	365. 75
13	211. 25	215. 75		48	367. 25	371. 75
14	121. 25	125. 75		49	373. 25	377. 75
15	127. 25	131. 75		50	379. 25	383. 75
16	133. 25	137. 75		51	385. 25	389. 75
17	139. 25	143. 75		52	391. 25	395. 75
18	145. 25	149. 75		53	397. 25	401. 75
19	151. 25	155. 75		54	403. 25	407. 75
20	157. 25	161. 75		55	409. 25	413. 75
21	163. 25	167. 75		56	415. 25	419. 75
22	169. 25	173. 75		57	421. 25	425. 75
23	217. 25	221. 75		58	427. 25	431. 75
24	223. 25	227. 75		59	433. 25	437. 75
25	229. 25	233. 75		60	439. 25	443. 75
26	235. 25	239. 75		61	445. 25	449. 75
27	241. 25	245. 75		62	451. 25	455. 75
28	247. 25	251. 75		63	457. 25	461. 75
29	253. 25	257. 75		64	463. 25	467. 75
30	259. 25	263. 75		65	469. 25	473. 75
31	265. 25	269. 75		66	475. 25	479. 75
32	271. 25	275. 75		67	481. 25	485. 75
33	277. 25	281. 75		68	487. 25	491. 75
34	283. 25	287. 75		69	493. 25	497. 75
35	289. 25	293. 75		70	499. 25	503. 75

USA CHANNEL FREQUENCY TABLE

U.S.A. CATV Channel

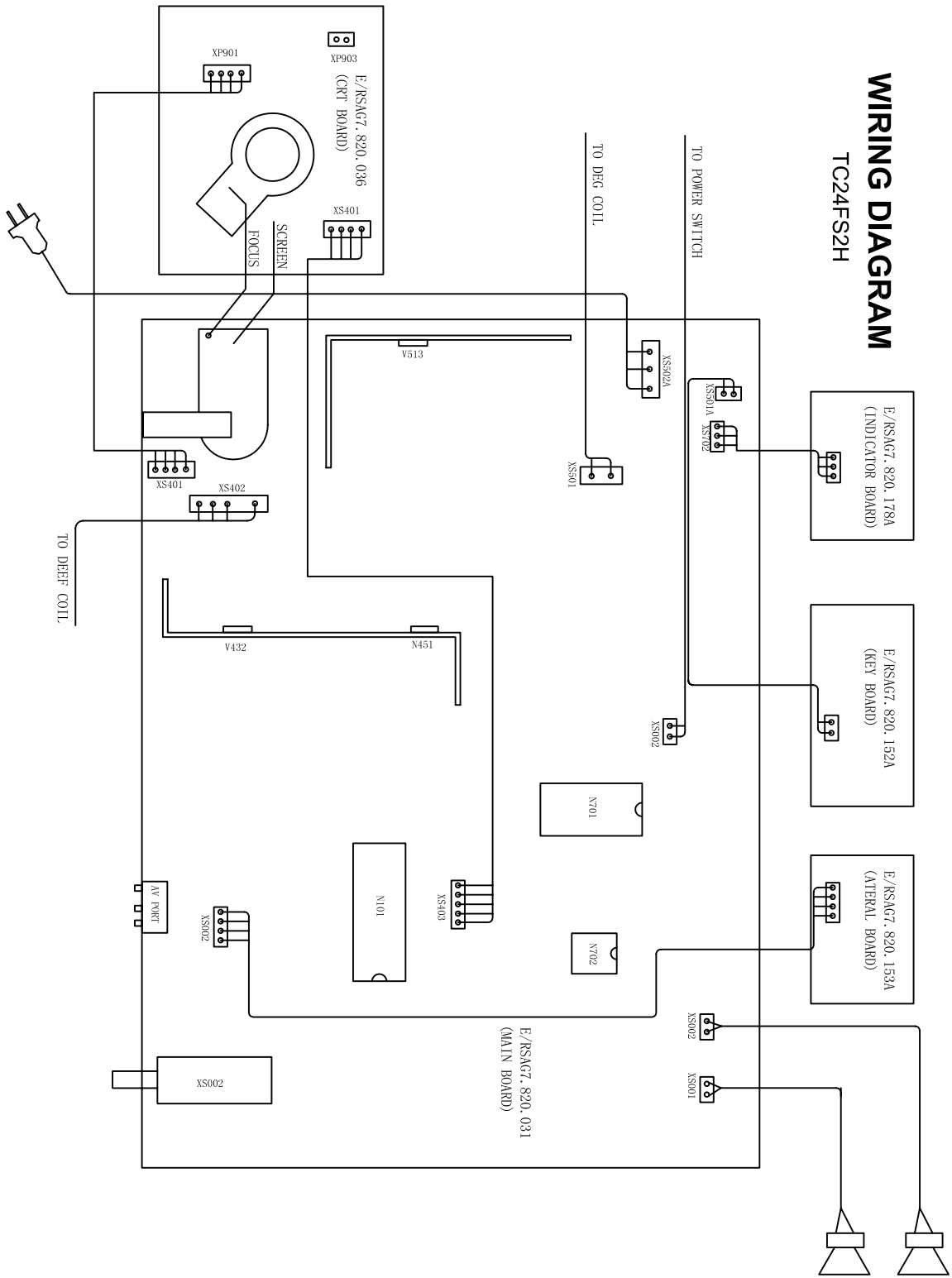
PIF 45.75MHZ, CIF 42.17MHZ, SIF 41.25MHZ.

UNIT:MHZ

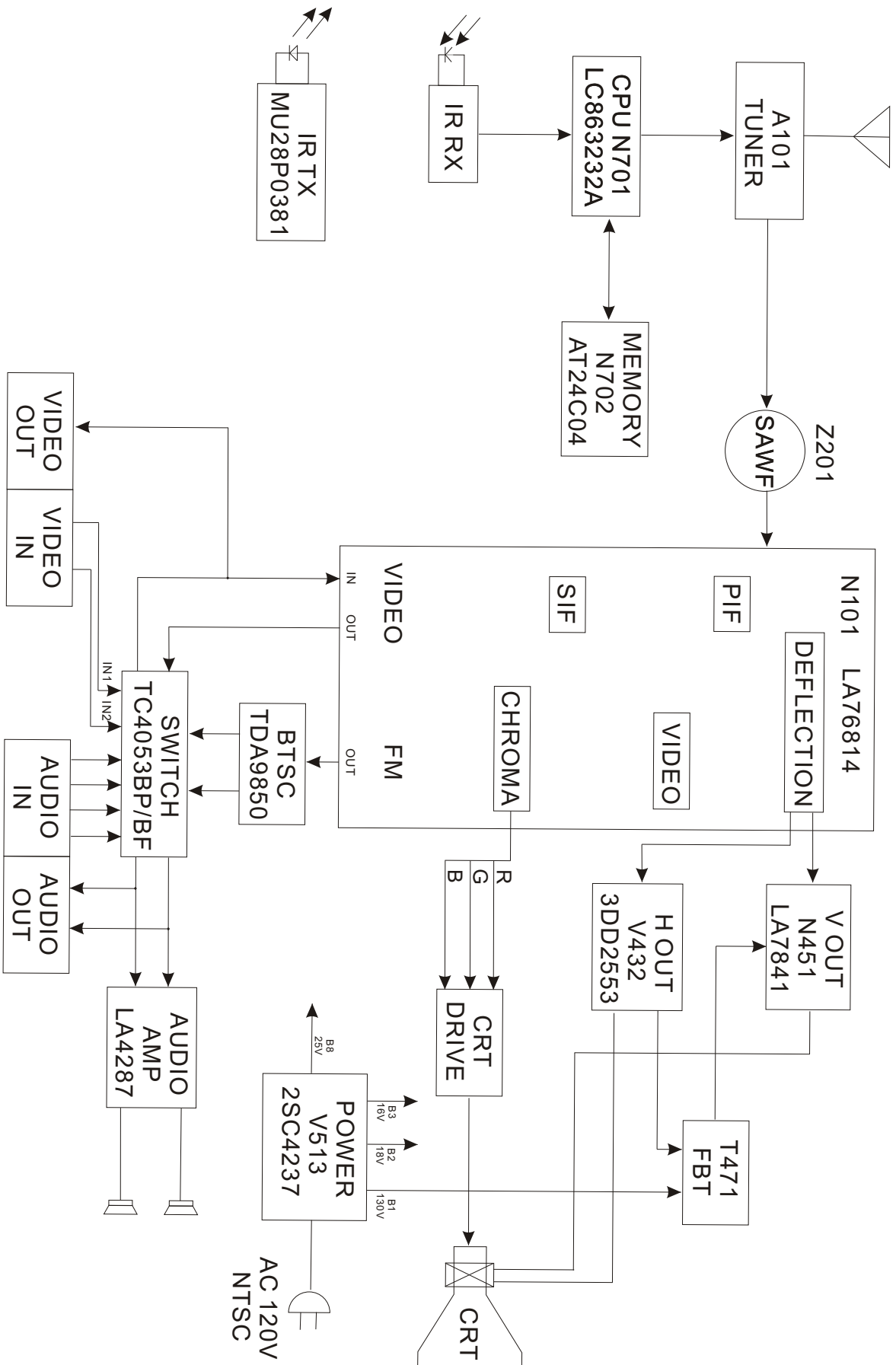
Channel	fp(pi ctu re)	fs(sound)		Channel	fp(pi ctu re)	fs(sound)
71	505. 25	509. 75		99	115. 25	119. 75
72	511. 25	515. 75		100	649. 25	653. 75
73	517. 25	521. 75		101	655. 25	659. 75
74	523. 25	527. 75		102	661. 25	665. 75
75	529. 25	533. 75		103	667. 25	671. 75
76	535. 25	539. 75		104	673. 25	677. 75
77	541. 25	545. 75		105	679. 25	683. 75
78	547. 25	551. 75		106	685. 25	689. 75
79	553. 25	557. 75		107	691. 25	695. 75
80	559. 25	563. 75		108	697. 25	701. 75
81	565. 25	569. 75		109	703. 25	707. 75
82	571. 25	575. 75		110	709. 25	713. 75
83	577. 25	581. 75		111	715. 25	719. 75
84	583. 25	587. 75		112	721. 25	725. 75
85	589. 25	593. 75		113	727. 25	731. 75
86	595. 25	599. 75		114	733. 25	737. 75
87	601. 25	605. 75		115	739. 25	743. 75
88	607. 25	611. 75		116	745. 25	749. 75
89	613. 25	617. 75		117	751. 25	755. 75
90	619. 25	623. 75		118	757. 25	761. 75
91	625. 25	629. 75		119	763. 25	767. 75
92	631. 25	635. 75		120	769. 25	773. 75
93	637. 25	641. 75		121	775. 25	779. 75
94	643. 25	647. 75		122	781. 25	785. 75
95	91. 25	95. 75		123	787. 25	791. 75
96	97. 25	101. 75		124	793. 25	797. 75
97	103. 25	107. 75		125	799. 25	803. 75
98	109. 25	113. 75				

WIRING DIAGRAM

TC24FS2H



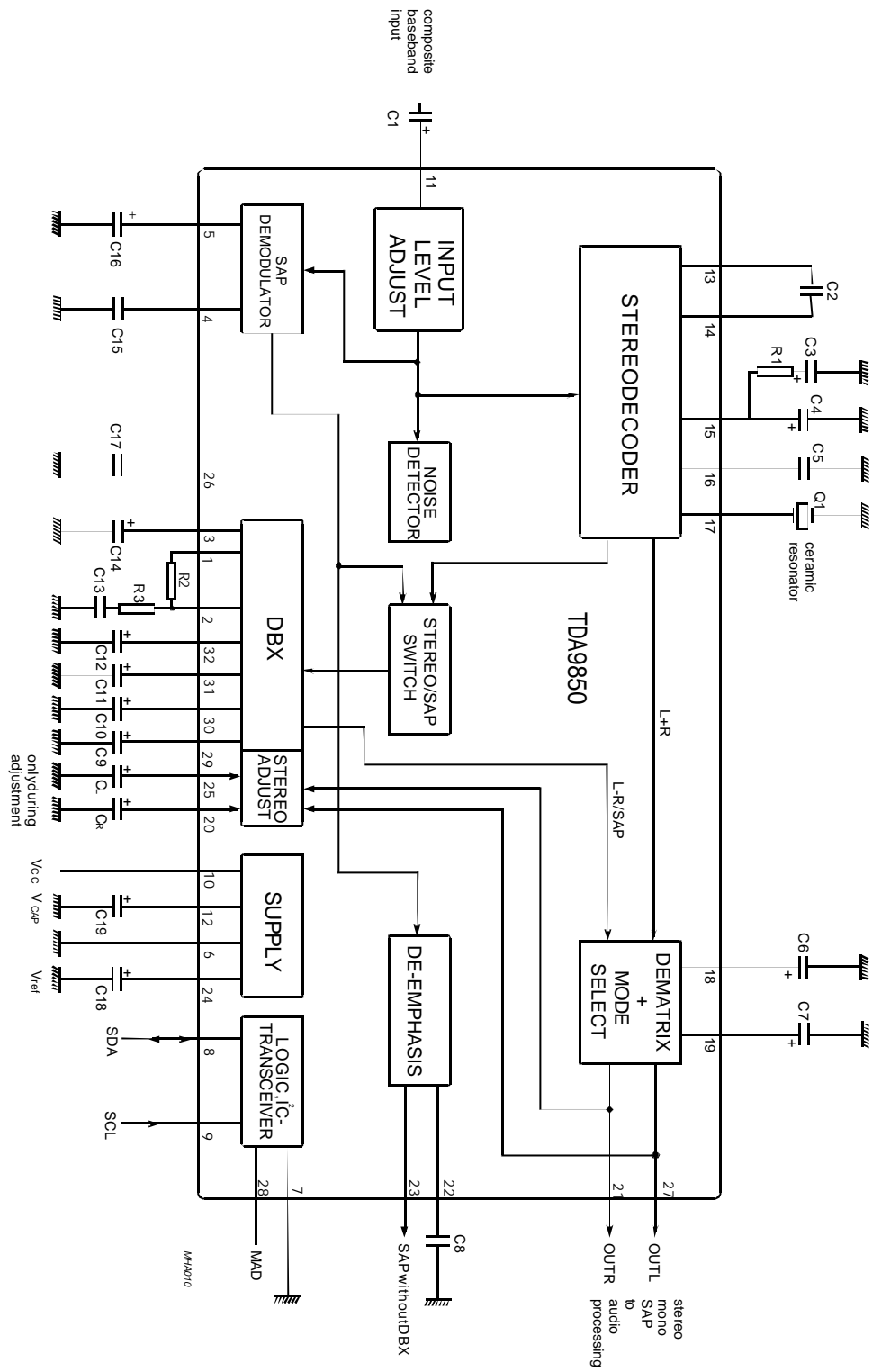
- 13 -



The diagram illustrates a complex video receiver circuit. Key components and their connections include:

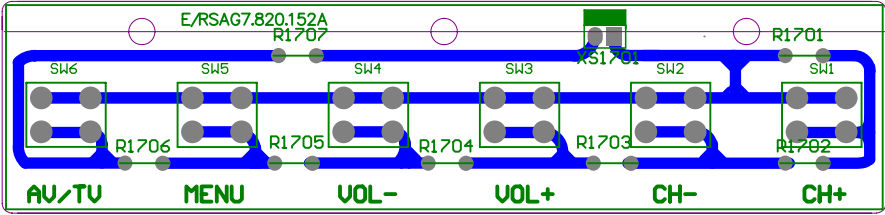
- Inputs:** SIFInput (2.4), SIFAPCFilter (1.93), SIFOutput (2.11), Ext.AudiInput. (2.3), FLLFilter (4), VCOCoil1 (4), VCOCoil2 (3.7), APCfilter (2.18), VideoOutput (2.53), BlackLevelDetector (2.7), InternalVideo Input(S_CIN) (2.4), External Video Input(Y IN) (0), Video/Vertical/BUSGround (2.32), SelectedVideoOutput (3.06), ACCFilter (2.64), fsc(3.58MHz)Output (0.53), ChromaAPC1Filter (3.3), KillerFilter (0.35), X-RAY (0), HorizontalGround (2.9), NC (31), NC (30), VCOIREF (1.7), FBPIInput (1.11).
- Processing Blocks:**
 - IF AGC:** Receives SIFInput and SIFOutput, outputs to IF AGC (2.53) and IF AGC (2.56).
 - VIF:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to VIF (2.8) and VIF (2.8).
 - FM DET:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to FM DET (2.12) and FM DET (2.12).
 - TRAP:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to TRAP (2.34) and TRAP (2.34).
 - AFT:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to AFT (2.34) and AFT (2.34).
 - OSD:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to OSD (2.34) and OSD (2.34).
 - RGB:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to RGB (2.34) and RGB (2.34).
 - VER:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to VER (2.34) and VER (2.34).
 - HOR:** Receives IF AGC (2.53) and IF AGC (2.56), outputs to HOR (2.34) and HOR (2.34).
- Outputs:** AudioOutput (2.5), FMOOutput (2.5), PIFAGCFilter (2.53), RFAGCOutput (2.56), PIFInput1 (2.8), PIF Input2 (2.8), IFGround (2.8), IFVcc (2.8), FMFilter (2.12), AFTOutput (2.34), BusData (4.8), BusClock (4.8), ABL (3.52), RedInput (1.1), GreenInput (1.15), BlueInput (1.13), Fast BlankingInput (0), RGB Vcc (8V), Red Output (3.16), Green Output (3.16), Blue Output (3.05), B.AKBInput (0), Vertical Output (2.51), RAMPALC Filter (2.63), Horizontal/Bus Vcc (5V), HorizontalAFC Filter (2.63), Horizontal Output (0.48).

TDA9850 BLOCK DIAGRAM

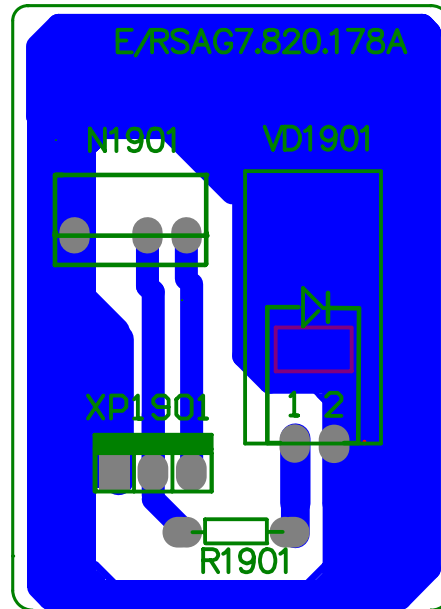


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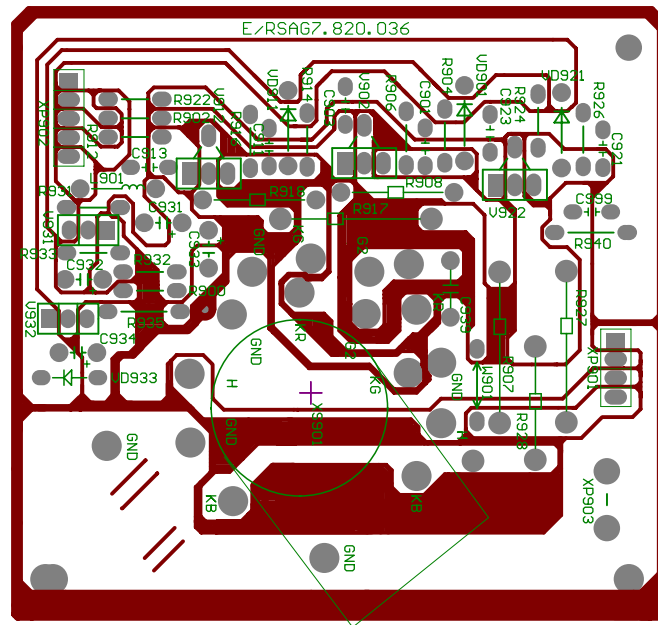
COMPONENT VIEW OF KEY BORAD



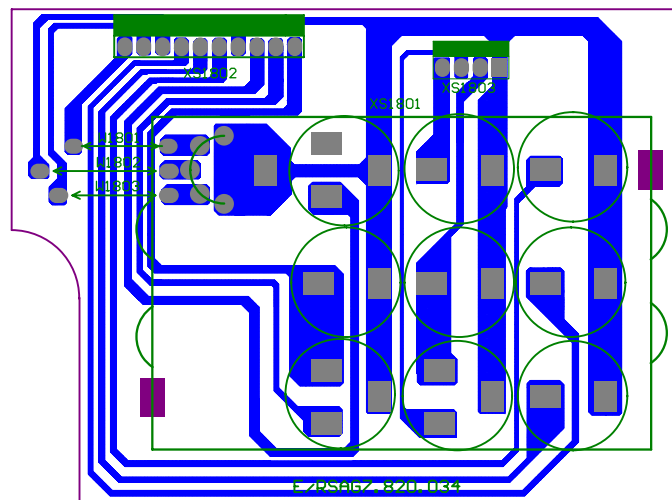
COMPONENT VIEW OF INDICATOR BORAD

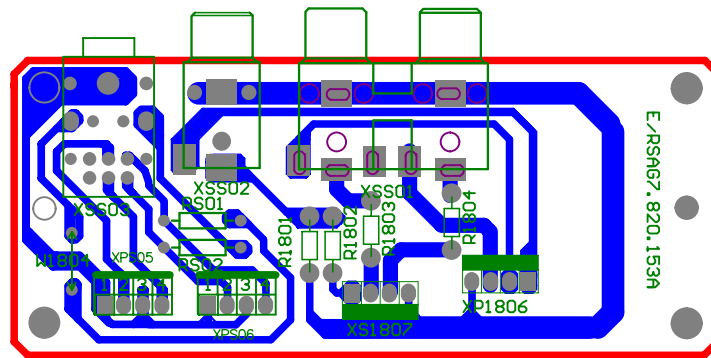


COMPONENT VIEW OF CRT BORAD

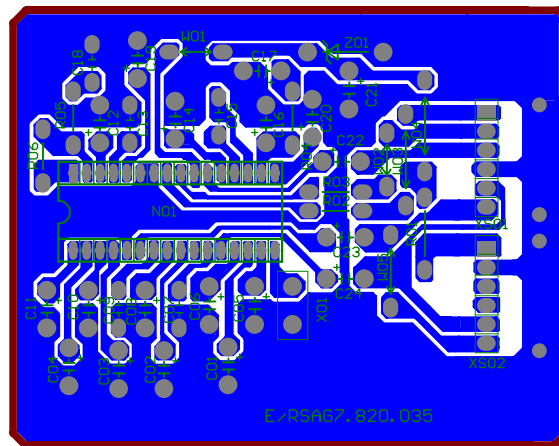


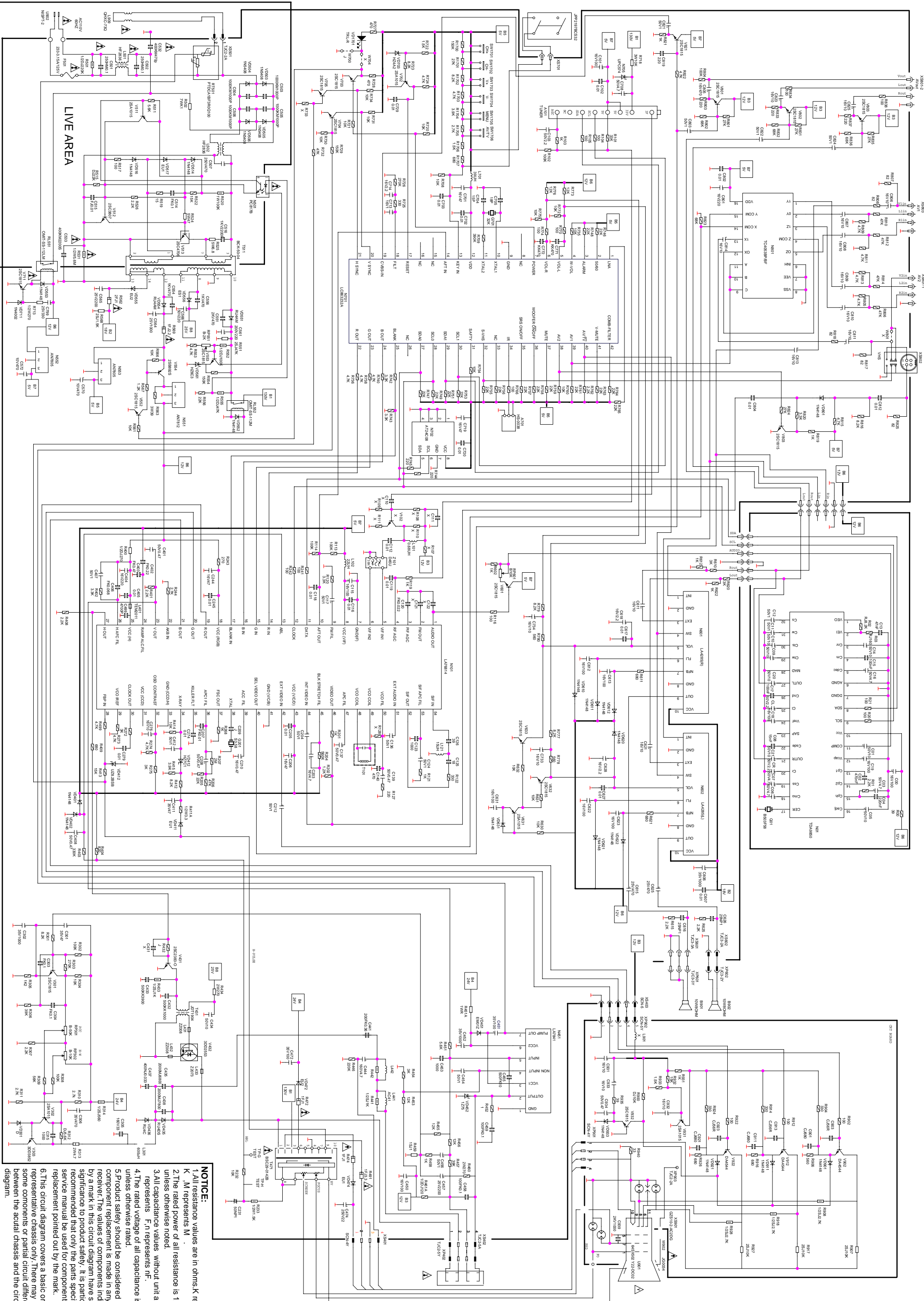
COMPONENT VIEW OF BACK AV BORAD





COMPONENT VIEW OF STEREO BORAD





CIRCUIT DIAGRAM OF TC24FS2H

PARTS LIST FOR TC24FS2H

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
	MAIN PCB				
1	E/RSAG7.820.031	PCS	1	A1 (THE MAIN PCB)	94V-0
	1/6W CARBON RESISTOR	PCS			
2	RT13-1/6W-2R2-J	PCS	2	R615 R625	1/6Watt
3	RT13-1/6W-75R-J	PCS	2	R803 W805	1/6Watt
4	RT13-1/6W-82R-J	PCS	3	R817 R818 R825	1/6Watt
5	RT13-1/6W-100R-J	PCS	9	R116 R241 R242 R766 R770 R774 R804 R834 R838	1/6Watt
6	RT13-1/6W-220R-J	PCS	5	R127 R744 R745 R833 R837	1/6Watt
7	RT13-1/6W-270R-J	PCS	1	R243	1/6Watt
8	RT13-1/6W-330R-J	PCS	4	R122 R612 R622 R725	1/6Watt
9	RT13-1/6W-470R-J	PCS	2	R727 R728	1/6Watt
10	RT13-1/6W-560R-J	PCS	2	R778 R780	1/6Watt
11	RT13-1/6W-680R-J	PCS	4	R409 R707 R611 R621	1/6Watt
12	RT13-1/6W-820R-J	PCS	1	R404	1/6Watt
13	RT13-1/6W-1K0-J	PCS	12	R103 R105 R119 R121 R201 R268 R458 R602 R819 R821	1/6Watt
14	RT13-1/6W-1K2-J	PCS	2	R202 R567	1/6Watt
15	RT13-1/6W-1K5-J	PCS	1	R722	1/6Watt
16	RT13-1/6W-1K8-J	PCS	1	R305	1/6Watt
17	RT13-1/6W-2K2-J	PCS	4	R307 R401 R408 R760	1/6Watt
18	RT13-1/6W-2K7-J	PCS	2	R244 R310	1/6Watt
19	RT13-1/6W-3K0-J	PCS	3	R272 R275 R454	1/6Watt
20	RT13-1/6W-3K3-J	PCS	4	R402 R742 R743 R820	1/6Watt
21	RT13-1/6W-3K9-J	PCS	1	R415	1/6Watt
22	RT13-1/6W-4K7-J	PCS	18	R274 R311 R724 R736 R738 R740 R747 R749 R751 R753 R809	1/6Watt
				R811 R813 R814 R815 R816 R822 R827	1/6Watt
23	RT13-1/6W-5K6-J	PCS	1	R312	1/6Watt
24	RT13-1/6W-8K2-J	PCS	6	R301 R412 R723 R777 R779 R826	1/6Watt
25	RT13-1/6W-10K-J	PCS	25	R304 R414 R561 R566 R630 R631 R632 R708 R720 R721 R730	1/6Watt
				R731 R733 R734 R735 R754 R772 R775 R819 R232 R413 R499	1/6Watt
				R755 R761 R762	1/6Watt
26	RT13-1/6W-12K-J	PCS	4	R453 R455 R773 R776	1/6Watt
27	RT13-1/6W-22K-J	PCS	10	R205 R746 R748 R756 R757 R758 R759 R763 R764 R765	1/6Watt
28	RT13-1/6W-27K-J	PCS	4	R801 R824 R831 R835	1/6Watt
29	RT13-1/6W-33K-J	PCS	2	R101 R120	1/6Watt
30	RT13-1/6W-39K-J	PCS	2	R308 R309	1/6Watt
31	RT13-1/6W-47K-J	PCS	2	R206 R732	1/6Watt
32	RT13-1/6W-56K-J	PCS	1	R306	1/6Watt
33	RT13-1/6W-68K-J	PCS	4	R802 R805 R832 R836	1/6Watt
34	RT13-1/6W-100K-J	PCS	4	R102 R113 R114 R302	1/6Watt
35	RT13-1/6W-150K-J	PCS	1	R729	1/6Watt
36	RT13-1/6W-270K-J	PCS	2	R303 R726	1/6Watt

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
37	RT13-1/6W-330K-J	PCS	1	R403	1/6Watt
38	RT13-1/6W-390K-J	PCS	1	R709	1/6Watt
39	RT13-1/6W-560K-J	PCS	1	R204	1/6Watt
40	RT13-1/6W-2M0-J	PCS	1	R207	1/6Watt
	1/4W CARBON RESISTOR				
41	RT14-1/4W-15R-J	PCS	1	R519	1/4Watt
42	RT14-1/4W-100R-J	PCS	1	R517	1/4Watt
43	RT14-1/4W-270R-J	PCS	1	R400	1/4Watt
44	RT14-1/4W-2K2-J	PCS	1	R526	1/4Watt
45	RT14-1/4W-3K3-J	PCS	1	R451	1/4Watt
46	RT14-1/4W-4K7-J	PCS	1	R553	1/4Watt
47	RT14-1/4W-5K6-J	PCS	1	R511	1/4Watt
48	RT14-1/4W-12K-J	PCS	1	R456	1/4Watt
49	RT14-1/4W-15K-J	PCS	1	R522	1/4Watt
50	RT14-1/4W-22K-J	PCS	2	R515 R556	1/4Watt
51	RT14-1/4W-39K-J	PCS	1	R457	1/4Watt
52	RT14-1/4W-220K-J	PCS	1	R446	1/4Watt
	1/2W METAL OXIDE FILM RESISTOR				
53	RY25-1/2W-1R-J	PCS	1	R452	1/2Watt
54	RY25-1/2W-120R-J	PCS	1	R461A	1/2Watt
55	RY25-1/2W-270R-J	PCS	1	R713	1/2Watt
56	RY25-1/2W-560R-J	PCS	1	R314	1/2Watt
57	RY25-1/2W-1K-J	PCS	1	R433	1/2Watt
58	RY25-1/2W-3K3-J	PCS	1	R557	1/2Watt
59	RY25-1/2W-47K-J	PCS	1	R555	1/2Watt
60	RY25-1/2W-100K-J	PCS	1	R552	1/2Watt
61	RY25-1/2W-150K-J	PCS	1	R554	1/2Watt
62	RY25-1/2W-220K-J	PCS	1	R501	1/2Watt
	1W METAL OXIDE FILM RESISTOR				
63	RY26-1W-1R0-J	PCS	1	R451A	1Watt
64	RY26-1W-100K-J	PCS	1	R520	1Watt
	2W METAL OXIDE FILM RESISTOR				
65	RY27-2W-4R7-J	PCS	1	R313	2Watt
66	RY27-2W-220R-J	PCS	1	R434	2Watt
67	RY27-2W-330R-J	PCS	1	R460	2Watt
68	RY27-2W-1K-J	PCS	1	R441	2Watt
69	RY27-2W-10K-J	PCS	1	R718	2Watt
70	RY27-2W-47K-J	PCS	1	R551	2Watt
	3W METAL OXIDE FILM RESISTOR				
71	RY28-3W-39R-J	PCS	1	R563	3Watt
72	RY18-3W-12K-J	PCS	1	R718	3Watt
	1/2W INSURANCE RESISTOR				
73	RF10-1/2W-3R3-J	PCS	1	△W425	1/2Watt

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
	1W INSURANCE RESISTOR				
74	RF10-1W-1R0-J	PCS	2	△R472 △R474	1Watt
75	RF10-1W-3R3-J	PCS	1	△R491	1Watt
	2W INSURANCE RESISTOR				
76	RF10-2W-1R0-J	PCS	2	△R562 △R569	2Watt
	1/4W METAL FILM RESISTOR				
77	RJ14-1/4W-4K7-F	PCS	1	R273	1/4Watt
	1W METAL FILM RESISTOR				
78	RJ16-1W-1R-J	PCS	1	R459	1Watt
	1/2W GLASS-GLAZED RESISTOR				
79	RI40-1/2W-1K5-K	PCS	1	R233	1/2Watt
80	RI40-1/2W-5M6-K	PCS	2	△R531 △R532	1/2Watt
	5W WIREWOUND RESISTOR				
81	RX27-6-5W-47R-J (18×14)	PCS	1	R524	5Watt
82	RX27-6-5W-6R8-J (18×14)	PCS	1	R525	5Watt
	7W WIREWOUND RESISTOR				
83	RX27-3Y-7W-1R-J	PCS	1	R502	7Watt
	VARIABLE RESISTOR				
84	WI06-2-2-2K	PCS	1	RP551	0~2k
85	WI06-2-2-10K	PCS	1	RP302	0~10k
86	WI06-2-2-50K	PCS	1	RP301	0~50k
	DEGAUSSING RESISTOR				
87	PTDCA1BF3R0Q100	PCS	1	△RT501	
	CERAMIC CAPACITOR				
89	CC1-08A-CH-50V-15P-J	PCS	1	C704	50Voltage
90	CC1-08A-CH-50V-18P-K	PCS	2	C125 C705	50Voltage
91	CC1-06A-RH-50V-22P-J	PCS	1	C209	50Voltage
92	CC1-06A-RH-50V-39P-J	PCS	1	C126	50Voltage
93	CC1-10A-RH-50V-470P-J	PCS	3	C140 C771 C772	50Voltage
94	CT1-06A-2B4-50V-1000P-K	PCS	3	C123 C453 C315	50Voltage
95	CT1-08A-2F4-50V-0.01 μ-Z	PCS	21	C102 C112 C116 C118 C119 C205 C245 C274 C279 C405 C607	50Voltage
				C617 C627 C702 C703 C720 C729 C802 C804 C812 C999	50Voltage
96	CT1-08C-2B4-500V-10P-K	PCS	1	C455	500Voltage
97	CT1-08C-2B4-500V-1000P-K	PCS	1	C432	500Voltage
98	CT1-08C-2B4-500V-3900P-K	PCS	1	C433	500Voltage
99	CT81-08C-2R-1KV-470P-K	PCS	2	C554 C552	1000Voltage
100	CT81-06C-2R-1KV-1000P-K	PCS	4	C503 C504 C505 C506	1000Voltage
101	CT81-10C-B-1KV-2200P-K	PCS	1	C516	1000Voltage
102	CT81-10C-2R-2KV-470P-K	PCS	1	C551	2000Voltage
103	CT81-AC400V-E-470P-M	PCS	1	△C532	400Voltage AC
104	CT81-AC400V-E-2200P-M	PCS	1	△C533	400Voltage AC
	POLYESTER CAPACITOR				
105	CL11-63V-0.01 μ-K	PCS	2	C207 C515	63Voltage

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
106	CL11-63V-0.022 μ -K	PCS	1	C120	63Voltage
107	CL11-63V-0.033 μ -K	PCS	1	C406	63Voltage
108	CL21X-63V-0.22 μ -K	PCS	1	C402	63Voltage
109	CL21X-63V-0.47 μ -K	PCS	1	C403	63Voltage
110	CL21X-63V-0.1 μ -K	PCS	6	C303 C304 C408 C514 C616 C626	63Voltage
111	CL21X-100V-0.1 μ -K	PCS	2	C458 C459	100Voltage
112	CBB62-AC250V-0.1 μ -M	PCS	2	(EMC)△C501 (EMC)△C502	250Voltage AC
	POLYPROPYLENE CAPACITOR				
113	CBB21A-400V-0.36 μ -J	PCS	1	C441	400Voltage
114	CBB81A-2KV-9n1-J	PCS	2	C435 C438	2000Voltage
115	CBB13-630V-33n-J	PCS	1	C437	630Voltage
	ELECTROLYTIC CAPACITOR				
116	CD110-16V-2.2 μ -M	PCS	4	C103 C618 C628 C714	16Voltage
117	CD110-16V-4.7 μ -M	PCS	1	C203	16Voltage
118	CD110-16V-10 μ -M	PCS	15	C276 C601 C602 C611 C621 C733 C734 C806 C807 C808	16Voltage
				C809 C810 C811 C823 C825	16Voltage
119	CD110-16V-47 μ -M	PCS	5	C206 C244 C404 C701 C719	16Voltage
120	CD110X-16V-100 μ -M	PCS	9	C101 C115 C450 C612 C613 C622 C623 C631 C805	16Voltage
121	CD110X-16V-220 μ -M	PCS	1	C801	16Voltage
122	CD110X-16V-470 μ -M	PCS	2	C570 C572	16Voltage
123	CD110-25V-330 μ -M	PCS	1	C799	25Voltage
124	CD110X-25V-470 μ -M	PCS	2	C615 C625	25Voltage
125	CD110X-25V-2200 μ -M	PCS	1	C457	25Voltage
126	CD110X-35V-47 μ -M	PCS	2	C301 C411	35Voltage
127	CD110X-35V-100 μ -M	PCS	2	C451 C472	35Voltage
128	CD110X-35V-1000 μ -M	PCS	2	C302 C452	35Voltage
129	CD110-50V-0.47 μ -M	PCS	5	C137 C139 C208 C401 C207A	50Voltage
130	CD110-50V-1 μ -M	PCS	14	C117 C124 C136 C204 C212 C407 C412 C454 C456 C713	50Voltage
				C803 C821 C822 C824	50Voltage
131	CD110-50V-4.7 μ -M	PCS	1	C708	50Voltage
132	CD110-50V-10 μ -M	PCS	1	C434	50Voltage
133	CD110-50V-470 μ -M	PCS	2	C306 C567	50Voltage
134	CD110-50V-1000 μ -M	PCS	3	C564 C565 C606	50Voltage
135	CD110-160V-1 μ -M	PCS	1	C444	160Voltage
136	CD110-160V-33 μ -M	PCS	1	C305	160Voltage
137	CD293-200V-220 μ -M	PCS	1	C561	200Voltage
138	CD288-250V-22 μ -M	PCS	1	C474	250Voltage
139	CD293-250V-470 μ -M	PCS	1	C507	250Voltage
	NO ELECTRODE ELECTROLYTIC CAPACITOR				
140	CD71-50V-1 μ -K	PCS	1	C231	50Voltage
	INDUCTOR COIL				
141	LGA0305-15 μ H-K	PCS	2	L102 L121	
142	LGA0305-39 μ H-K	PCS	1	L701	

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
143	TEM2011	PCS	1	L401	
144	ZZ0008	PCS	2	(EMC)L431 (EMC)L432	
145	TLN2854-540	PCS	1	L301	
146	AC41	PCS	1	L441	
	TRANSFORMER				
147	JDT1904	PCS	1	△T431	
148	BCK-50-04	PCS	1	△T511	
149	BSC29-0142B	PCS	1	△T471	
	FILTER				
150	LCL-036	PCS	1	(EMC)L501	
151	HF2836-562Y2R5-T01	PCS	1	(EMC)L502	
	DIODE				
152	1N4148	PCS	15	VD401 VD402 VD514 VD516 VD552 VD553 VD610 VD611	
				VD612 VD620VD621 VD622 VD631 VD801 VD301	
153	UZ3.6BSB	PCS	1	VD703	3.6Voltage
154	UZ6.2BSB	PCS	1	VD561	6.2Voltage
155	UZ8.2BSA	PCS	1	VD412	8.2Voltage
156	UZ5.6BSB	PCS	1	VD499	5.6Voltage
157	1Z75	PCS	1	VD452	
158	EM01Z	PCS	1	VD451	
159	RU4AM	PCS	2	VD551 VD554	
160	EU2	PCS	2	VD472 VD555	
161	1N5408	PCS	4	VD503 VD504 VD505 VD506	
162	EU1	PCS	3	VD411 VD474 VD517	
163	RU4DS	PCS	1	VD435	
164	RU4C	PCS	1	VD436	
165	ES1	PCS	1	VD556	
	TRANSISTOR				
166	2SC1815Y	PCS	15	V552 V553 V601 V632 V633 V703 V704 V705 V711V801	
				V802 V803 V804 V821 V301	
167	2SA1015Y	PCS	4	V302 V511 V631 V702	
168	2SC3807	PCS	1	V512	
169	2SB892S	PCS	1	V554	
170	3DD3852	PCS	1	V303	
171	2SC2383	PCS	1	V431	
172	2SC4706	PCS	1	V513	
173	3DD2553	PCS	1	V432	
	IC				
174	LA76814	PCS	1	N101	Main IC
175	LC863232A-5V57	PCS	1	N701	CPU
176	LA7841	PCS	1	N451	Vertical Chip
177	LA4287	PCS	2	N601 N602	Sound Amplifier
178	L7805CV	PCS	2	N552 N553	

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
179	L7812CV	PCS	1	N551	
180	CW574CS	PCS	1	N705	
181	AT24C04	PCS	1	N702	E2PRROM
182	TC4053BP	PCS	1	N801	AV/TV SWITCH
	OPTICAL-ELECTRONIC COUPLER				
183	PC817B/HS817	PCS	1	△N501	
	CERAMIC OSC				
184	JA25D-3.58MHZ	PCS	1	(EMC)G201	3.58MHz
185	JA25D(32.768KHz)	PCS	1	(EMC)G701	32.768KHz
	SAW FILTER				
186	D45U	PCS	1	(EMC)Z101	
	FUSE				
187	125V/250V-3.15A	PCS	1	△F501	125Voltage 3.15Amp
	RELAY				
188	OMIT-SS-112LM	PCS	1	△RL551 △RL552	10Amp 240V
	TUNER				
189	TEDH9-243A	PCS	1	(EMC)A101	
	JUMPER				
190	5mm	mm	8	W213 W701 W801 W818 W819 L511 C110 V102	
191	7.5mm	mm	70	W102 W110 W118 W201 W203 W204 W205 W210 W215 W218 W221	
				W301 W302 W401 W402 W403 W405 W409 W410 W411 W416 W417	
				W419 W423 W424 W426 W451 W555 W562 W601 W605 W606 W607	
				W608 W609 W610 W616 W617 W620 W632 W700 W703 W704 W713	
				W716 W721 W722 W734 W735 W736 W740 W755 W756 W762 W803	
				W804 W805 W806 W807 W808 W809 W811 W812 W814 W815 W845	
				R270 R432 R781	
192	10mm	mm	52	W109 W111 W113 W114 W117 W121 W123 W124 W125 W212 W214	
				W216 W222 W404 W407 W408 W412 W413 W414 W420 W421 W422	
				W431 W433 W473 W551 W557 W570 W612 W613 W626 W631 W702	
				W705 W706 W707 W708 W709 W710 W714 W718 W720 W723 W724	
				W725 W726 W727 W739 W750 W802 W813 W816	
193	12.5mm	mm	10	W432 W442 W443 W474 W515 W602 W604 W624 W737 W761	
194	15mm	mm	10	W472 W507 W553 W571 W623 W728 W729 W738 R442 R471	
195	17.5mm	mm	1	W611	
196	20mm	mm	2	W554 W799	
	HOLLOW RIVET				
197	XRY1.6×2.8BD	PCS	13	L501-1 L501-2 L502-1 L502-2 T511-1 T511-7 T511-8 T511-14 T471-1	
				T471-2 T471-4 T471-8 T471-10	
198	XRY2.5×3.5BD	PCS	22	C507+ C507- V513-1 V513-2 V513-3	
				POWER RADIATOR4、 6 V432-1 V432-2 V432-3	
				H/V RADIATOR4、 5、 6、 7 RL551-1 RL551-2	

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
				RL552-1 RL552-2 THE LEFT POWER MAGNIFY RADIATOR1、 2	
				THE LEFT POWER MAGNIFY RADIATOR1、 2	
	CONNECTOR				
199	TJC7B-4Y-600	PCS	1	XS806	
200	TJC7B-10Y-150	PCS	1	XS808	
201	TJC7B-4Y-450	PCS	1	XS401	
	CONNECTOR PLUG				
202	TJC7-2A	PCS	4	XS601 XS602 XS701 XS501A	
203	TJC7-3A	PCS	1	A701	
204	TJC7-5A	PCS	1	XS403	
205	TJC2-2A	PCS	1	XS501	
206	TJC2-3Y	PCS	1	XS502A	
207	TJC2-5A	PCS	1	XS402	
208	TJC3L-6A	PCS	2	XS603 XS604	
	HEAT SINK				
209	RSR7.736.0102	PCS	2		
210	RSR7.308.0181	PCS	2		
211	RSAG5.861.0213	PCS	1		
212	RSR5.861.0216	PCS	1		
213	RSAG7.308.027	PCS	3		
214	RSR7.308.0216	PCS	1		
	FUSE SUPPORTER				
215	RSR7.736.0102	PCS	2	FOR FUSE	
	FRONT CONTROL PCB				
216	E/RSAG7.820.152A	PCS	1	A2	94V-0
217	RT13-1/6W-1K5-J	PCS	1	R1707	1/6Watt
218	RT13-1/6W-2K7-J	PCS	1	R1706	1/6Watt
219	RT13-1/6W-3K9-J	PCS	1	R1705	1/6Watt
220	RT13-1/6W-4K7-J	PCS	1	R1704	1/6Watt
221	RT13-1/6W-8K2-J	PCS	1	R1703	1/6Watt
222	RT13-1/6W-27K-J	PCS	1	R1702	1/6Watt
223	RT13-1/6W-150K-J	PCS	1	R1701	1/6Watt
	SWITCH				
224	KAN-C202-5	PCS	6	SW01 SW02 SW03 SW04 SW05 SW06	
	CONNECTOR				
225	TJC7-2Y-SCNW-1000	PCS	1	XS806	
	LATERAL AV PCB				
226	E/RSAG7.820.153A	PCS	1	A3	94V-0
227	RT13-1/6W-82R-J	PCS	2	R1801 R1802	1/6Watt
228	RT13-1/6W-4K7-J	PCS	2	R1803 R1804	1/6Watt
	AV SOCKET				
229	AVZ1-8.4-1-1	PCS	1	XSS01	
230	AVZ2-8.4-1A	PCS	1	XSS02	

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
	CONNECTOR				
231	TJC7B-4Y-600	PCS	1	XP1806	
	CONNECTOR PLUG				
232	TJC7-4A	PCS	1	XS1807	
	BACK AV PCB				
233	E/RSAG7.820.034	PCS	1	A4	94V-0
	AV SOCKET				
234	AV9S3-5	PCS	1	XS1801	
	CONNECTOR PLUG				
235	TJC7L-10A	PCS	1	XS1802	
236	TJC7L-4A	PCS	1	XS1803	
	STEREO PCB				
237	E/RSAG7.820.035	PCS	1	A5	94V-0
238	RT13-1/6W-220R-J	PCS	2	R02 R03	1/6Watt
239	RT13-1/6W-2K2-J	PCS	1	R04	1/6Watt
240	RJ13-1/6W-160R-J	PCS	1	R05	1/6Watt
241	RJ13-1/6W-8K2-J	PCS	1	R06	1/6Watt
242	RT14-1/4W-56R-J	PCS	1	R01	1/4Watt
	ELECTROLYTIC CAPACITOR				
243	CD110-16V-100 μ -M	PCS	3	C02 C14 C21	16Voltage
244	CD110-50V-1 μ -M	PCS	2	C04 C11	50Voltage
245	CD110-50V-2.2 μ -M	PCS	2	C06 C08	50Voltage
246	CD110-50V-4.7 μ -M	PCS	4	C01 C05 C17 C19	50Voltage
247	CD110-50V-10 μ -M	PCS	7	C03 C10 C12 C20 C22 C23 C24	50Voltage
	POLYESTER CAPACITOR				
248	CL21X-63V-0.015 μ -K	PCS	1	C07	63Voltage
249	CL21X-63V-0.047 μ -K	PCS	1	C18	63Voltage
250	CL21X-63V-0.1 μ -K	PCS	2	C09 C13	63Voltage
251	CL21X-63V-0.22 μ -K	PCS	1	C16	63Voltage
252	CL21X-63V-0.47 μ -K	PCS	1	C15	63Voltage
	CERAMIC OSC				
253	CSB503F58	PCS	1	X01	
	IC				
254	TDA9850	PCS	1	N01	BTSC
	PLUG				
255	TJC3L-6P	PCS	1	XS01 XS02	
	VIDEO AMP PCB				
256	E/RSAG7.820.036	PCS	1	A6	94V-0
257	RT13-1/6W-100R-J	PCS	3	R902 R912 R922	1/6Watt
258	RT13-1/6W-330R-J	PCS	3	R904 9914 R924	1/6Watt
259	RT13-1/6W-680R-J	PCS	3	R906 R916 R926	1/6Watt
260	RT13-1/6W-1K-J	PCS	1	R931	1/6Watt
261	RT13-1/6W-1K5-J	PCS	1	R933	1/6Watt

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
262	RT13-1/6W-10K-J	PCS	1	R900	1/6Watt
263	RT13-1/6W-15K-J	PCS	1	R932	1/6Watt
264	RT14-1/4W-33R-J	PCS	2	R935 R940	1/4Watt
265	RY25-1/2W-2K7-J	PCS	3	R908 R918 R928	1/2Watt
266	RY27-2W-15K-J	PCS	3	R907 R917 R927	2Watt
	CERAMIC CAPACITOR				
267	CC1-10A-50V-680P-J	PCS	3	C901 C911 C921	50Voltage
268	CC1-RH-50V-56P-J	PCS	3	C903 C913 C923	50Voltage
269	CT81-B-2KV-1000P-K	PCS	1	C939	2000Voltage
	DIODE				
270	1N4148	PCS	4	VD901 VD911 VD921 VD933	
	TRANSISTOR				
271	2SC1815Y	PCS	1	V932	
272	2SA1015Y	PCS	1	V931	
273	3DA4544	PCS	3	V902 V912 V922	
	CRT SOCKET				
274	GZS10-2 -AC2DG	PCS	1	XS901	94V-0
	CONNECTOR				
275	TJC7B-5Y-450	PCS	1	XP902	
	CONNECTOR PLUG				
276	TJC2-2A	PCS	1	XP903	
277	TJC7-4A	PCS	1	XP901	
	RECEIVE PCB				
278	E/RSAG7.820.178A	PCS	1	A7	94V-0
279	RT13-1/6W-470R-J	PCS	1	R1901	1/6Watt
	LED				
280	BT-204L-31	PCS	1	VD1901	5Voltage
	IC				
281	HS0038A2	PCS	1	N1901	
	CONNECTOR				
282	TJC7B-3Y-250	PCS	1	XP902	
	ASSEMBLE LIST				
283	CABINET FRONT	PCS	1		
284	REAR COVER	PCS	1		
285	HOB	PCS	4	CRT	
286	POWER BUTTON	PCS	1		
287	SPRING	PCS	1		
288	LENS LED	PCS	1		
289	CUMMERBUND	PCS	1	CABINET FRONT	
	3M ADHESIVE TAPE				
290	7X30mm	PCS	2	CABINET FRONT	
291	7X50mm	PCS	8	CABINET FRONT	
292	ORIENTED SUPPORTER	PCS	2	CABINET FRONT	

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
293	ORIENTED BLOCK	PCS	4	CABINET FRONT	
294	AV SUPPORTER	PCS	1	CABINET FRONT	
295	SWITCH SUPPORTER	PCS	1	CABINET FRONT	
296	KNOB	PCS	1		
297	BUTTON	PCS	1	CABINET FRONT	
	CLIP				
298	RSAG8.667.004	PCS	9		
299	QH013	PCS	5		
	SPACER				
300	RSR7.854.0108	PCS	2		
	RUBBER CUSHION				
301	RSR8.683.0145	PCS	4		
	WASHER				
302	RSR8.942.0104	PCS	2		
303	RSR8.610.0137	PCS	1		
	SHOCKPROOF CLOTH				
304	RSR8.683.0122	PCS	1	REAR COVER	
305	RSR8.683.0116	PCS	2	REAR COVER	
306	RSR8.683.0142	PCS	2	CABINET FRONT	
	SCUTCHEON				
307	E/RSR8.808.269	PCS	1		
308	E/RSR8.808.092	PCS	1		
309	E/RSR8.807.592	PCS	1		
310	E/RSR8.808.086	PCS	1		
	LOGO				
311	RSR8.809.0129	PCS	1		
	LABEL				
312	BAR CODE	PCS	9		
313	E/RSR8.817.002	PCS	1		
314	E/RSR8.817.003	PCS	1		
	SCREW				
315	SJ2825-87 ST3X8C	PCS	4	AV BOARD	
316	SJ2825-87 ST3X10C	PCS	1	LENS LED	
317	SJ2825-87 ST3X12C	PCS	3	SWITCH SUPPORTER 2,RECIEVER 1	
318	SJ2824-87 ST3X8C	PCS	3	BUTTON BOARD	
319	SJ2824-87 ST4X12C	PCS	13	SPEAKER 8 ,BUTTON 2 ,AV BOARD 2,A1 BOARD 1	
320	SJ2824-87 ST4X16C	PCS	6	AV BOARD 4 ,ORIENTED SUPPORTER 2	
321	SJ2824-87 ST4X20C	PCS	28	CABINET FRONT,REAR COVER 8 AND HOB 20	
	NUT				
322	SJ2843-87 M6	PCS	4	CRT	
	FOLD LIST				
323	MAIN PCB FRAME	PCS	1		
324	AV BOARD	PCS	1		

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
325	FBT SUPPORTER	PCS	1		
	CLIP				
326	RSR8.667.0135	PCS	1		
327	HOOK	PCS	1		
	SCREW				
328	SJ2825-87 ST3X12C	PCS	8	A1 BOARD	
329	SJ2825-87 ST3X12C(BLACK)	PCS	4	AV BOARD	
330	SJ2824-87 ST4X16C	PCS	1	FBT SUPPORTER	
331	SJ2824-87 ST4X12C	PCS	4	FBT SUPPORTER 1,AV BOARD 2,CLIP 1	
332	SJ2836-87 M3X8	PCS	2	SWITCH SUPPORTER	
	PACKING LIST				
	PACKING BOX				
333	E/RSR8.865.606	PCS	1		
	PACKING BAG				
334	RSAG8.840.007	PCS	1		
335	RSAG80840.005	PCS	1		
	GASKET				
336	E/RSR8.870.092	PCS	1		
337	E/RSR8.870.093	PCS	1		
	STAPLE				
338	Q/06.YGS01-90/-	PCS	12		
	TAPE				
339	24X400mm	PCS	1		
340	72X2500mm	PCS	1		
	RC TRANSMITTER				
341	HYDFSR-A202TY	PCS	1		
	BATTERY				
342	LR6	PCS	2		
	USER MANUAL				
343	IES030420	PCS	1		
	STRUCTURE LIST OF MAIN PCB				
	SCREW				
344	SJ2832-87 ST3X8	PCS	5		
345	SJ2835-87 ST3X12	PCS	3		
346	SJ2835-87 ST3X8	PCS	2		
	NUT				
347	GB6170-86 M3	PCS	5		
	WASHER				
348	GB97.1-85	PCS	3		
349	RSR8.942.0106	PCS	1		
350	RSR7.844.0113	PCS	1		
	CLIP				
351	RSR8.667.0132	PCS	1		

NO	DESCRIPTION	UNIT	QTY	LOCATION	SPECIFICATION
	CRT				
352	A59QDF891X002	PCS	1		
	POWER SWITCH				
353	KDC-A04-0	PCS	1		
	DEGAUSSING WIRE				
354	QHXC-3H	PCS	1		
	SPEAKER				
355	YDT613-10W8Ω	PCS	2		
	POWER WIRE				
356	NISPT-2	PCS	1		
	WIRING HARNESS				
357	TJC2-5Y-500	PCS	1	XP402	
358	TJC2-2Y-630	PCS	1	XS602	
359	TJC2-2Y-500	PCS	1	XS601	
360	TJC2-2Y-300	PCS	1	TO XS601	
361	TJC2-2Y-B-1075	PCS	1	GROUND WIRE	