

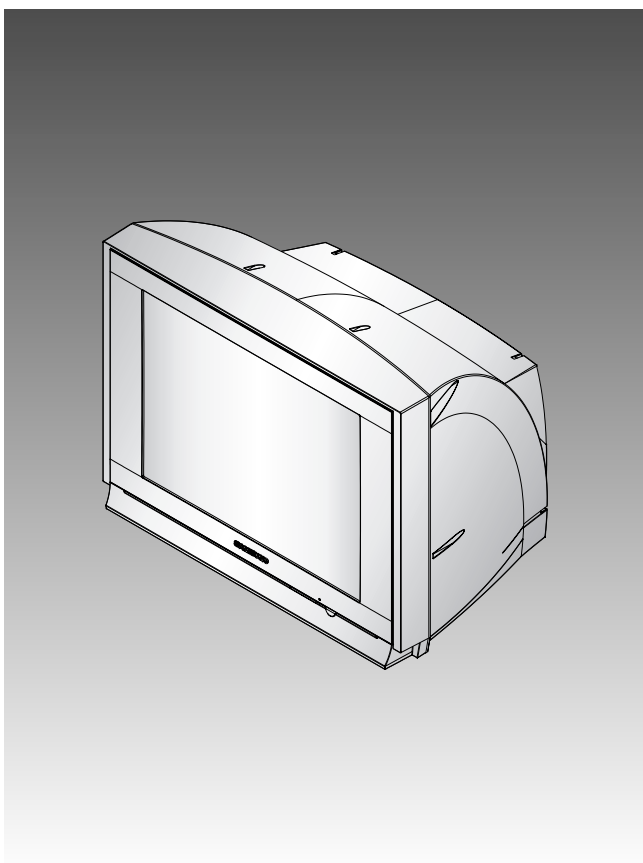
**SAMSUNG**

# COLOR TELEVISION RECEIVER

Chassis : K55A  
Model : TXM3281HFX/XAA

# **SERVICE** *Manual*

## COLOR TELEVISION RECEIVER



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**ELECTRONICS**

## 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

### 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

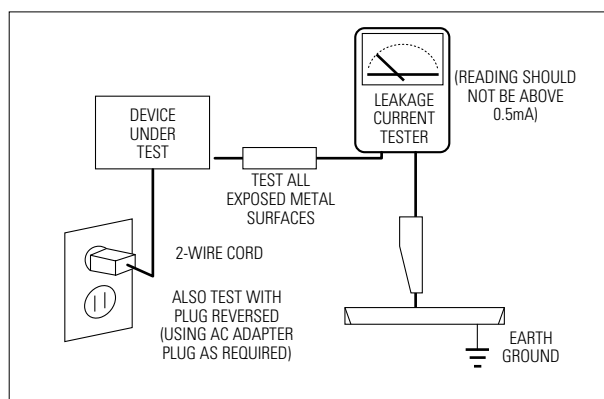




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced.  
(X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or (). Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.



## 1-2 Servicing Precautions

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Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to:  
(a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor (“solid state”) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as “anti-static”; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

#### **CAUTION**

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

## 2. Reference Information

### 2-1 Tables of Abbreviations and Acronyms

**Table 2-1 Abbreviations**

A	Ampere	MV	Megavolt
Ah	Ampere-hour	MW	Megawatt
Å	Angstrom	MΩ	Megohm
dB	Decibel	m	Meter
dBm	Decibel Referenced to One Milliwatt	μA	Microampere
°C	Degree Celsius	μF	Microfarad
°F	Degree Fahrenheit	μH	Microhenry
°K	degree Kelvin	μm	Micrometer
F	Farad	μs	Microsecond
G	Gauss	μW	Microwatt
GHz	Gigahertz	mA	Milliampere
g	Gram	mg	Milligram
H	Henry	mH	Millihenry
Hz	Hertz	ml	Milliliter
h	Hour	mm	Millimeter
ips	Inches Per Second	ms	Millisecond
kWh	Kilowatt-hour	mV	Millivolt
kg	Kilogram	nF	Nanofarad
kHz	Kilohertz	Ω	Ohm
kΩ	Kilohm	pF	Picofarad
km	Kilometer	lb	Pound
km/h	Kilometer Per Hour	rpm	Revolutions Per Minute
kV	Kilovolt	rps	Revolutions Per Second
kVA	Kilovolt-ampere	s	Second (Time)
kW	Kilowatt	V	Volt
l	Liter	VA	Volt-ampere
MHz	Megahertz	W	Watt
		Wh	Watt-hour

**Table 2-2 Table of Acronyms**

ABL	Automatic Brightness Limiter	I/O	Input/output
AC	Alternating Current	L	Left
ACC	Automatic Chroma Control	L	Low
AF	Audio Frequency	LED	Light Emitting Diode
AFC	Automatic Frequency Control	LF	Low Frequency
AFT	Automatic Fine Tuning	MOSFET	Metal-Oxide-Semiconductor-Field-Effect-Tr
AGC	Automatic Gain Control	MTS	Multi-channel Television Sound
AM	Amplitude Modulation	NAB	National Association of Broadcasters
ANSI	American National Standards Institute	NEC	National Electric Code
APC	Automatic Phase Control	NTSC	National Television Systems Committee
APC	Automatic Picture Control	OSD	On Screen Display
A/V	Audio-Video	PCB	Printed Circuit Board
AVC	Automatic Volume Control	PLL	Phase-Locked Loop
BAL	Balance	PWM	Pulse Width Modulation
BPF	Bandpass Filter	QIF	Quadrature Intermediate Frequency
B-Y	Blue-Y	R	Right
CATV	Community Antenna Television (Cable TV)	RC	Resistor & Capacitor
CB	Citizens Band	RF	Radio Frequency
CCD	Charge Coupled Device	R-Y	Red-Y
CCTV	Closed Circuit Television	SAP	Second Audio Program
Ch	Channel	SAW	Surface Acoustic Wave(Filter)
CRT	Cathode Ray Tube	SIF	Sound Intermediate Frequency
CW	Continuous Wave	SMPS	Switching Mode Power Supply
DC	Direct Current	S/N	Signal/Noise
DVM	Digital Volt Meter	SW	Switch
EIA	Electronics Industries Association	TP	Test Point
ESD	Electrostatic Discharge	TTL	Transistor Transistor Logic
ESD	Electrostatically Sensitive Device	TV	Television
FBP	Feedback Pulse	UHF	Ultra High Frequency
FBT	Flyback Transformer	UL	Underwriters Laboratories
FF	Flip-Flop	UV	Ultraviolet
FM	Frequency Modulation	VCD	Variable-Capacitance Diode
FS	Fail Safe	VCO	Voltage Controlled Oscillator
GND	Ground	VCXO	Voltage Controlled Crystal Oscillator
G-Y	Green-Y	VHF	Very High Frequency
H	High	VIF	Video Intermediate Frequency
HF	High-Frequency	VR	Variable Resistor
HI-FI	High Fidelity	VTR	Video Tape Recorder
IC	Inductance-Capacitance	VTVM	Vacuum Tube Voltmeter
IC	Integrated Circuit	TR	Transistor
IF	Intermediate Frequency		

## 2-2 IC Line Up

Block	Des-Loc	Part-Number	IC Name	Description
<b>MAIN</b>	IC901	AA09-00041A	SDA555X-OTP	IC-MCU
	HIC401	AA13-00094A	DDR1001A	IC HYBRID
	TU02S	AA40-00041A	TCPN3081PC09C(S)	TUNER-F/S
	IC06	1203-002000	DETECTOR;7027	IC-VOL
	IC805	1203-001006	78R05)	IC-VOLTAGE REGULATOR
	HC401	0502-001230	FJL6920YDTU)	TR-POWER
	D801S	0402-001399	GSIB660	DIODE-BREDGE
	HC801	1230-001006	78R05	IC-VOLTAGE REGULATOR
	IC602	1201-001385	7269A	IC-POWER AMP
	IC801S	1203-002512	KA5Q1565RF	IC-PWM CONTROLLER
	IC301	1204-000517	LA7845	IC-VERTICAL DEF
	IC902	1103-001177	24WC16	IC-EEPROM
	IC401	1202-000103	393, DIP, 8P	IC-VOLTAGE COMP
	IC803	1203-001225	78R09	IC-POSI.FIXED REG
	IC601	1204-001970	MSP3421G0P0-8	IC-SOUND PROCESSOR
	TU01S	AA40-00020A	TCLN3181PA09A(S)	TUNER-F/S
	IC402	1203-000243	7812A	IC-POSI.FIXED REG
	IC804	1203-001217	431	IC-POSI.ADJUST REG
	IC904	1203-001943	7025	IC-VOL DETECTOR
	IC202	1203-001944	78RM33	IC-POSI.FIXED REG
Q402	0505-001116	BUZ73A	FET-SILICON	
IC903	1203-001944	78RM33	IC-POSI.FIXED REG	
<b>F-BOX</b>	IC06	1203-002000	7027	IC-VOL DETECTOR
	IC11	0801-000662	74HC123	IC-CMOS LIGIC
	IC03	1001-001082	BA7657F	IC-VIDEO SWITCH
	IC10	1001-001177	TEA6425D	IC-VIDEO SWITCH
	IC08	1203-001419	4931	IC-VOLTAGE REGULATOR
	IC05	1203-002186	18, DPAK	IC-POSI.FIXED REG

<b>Block</b>	<b>Des-Loc</b>	<b>Part-Number</b>	<b>IC Name</b>	<b>Description</b>
<b>F-BOX</b>	IC07	1203-002351	LF25C	IC-VOLTAGE REGULATOR
	IC02	1204-001814	CXA2151Q	IC-SELECTOR
	IC09	1204-001935	UPD64083GF	IC-SEPARATOR
	IC01	1204-001938	VSP9407B-B11	IC-DECODER
	IC04	1204-001989	CXA2165Q	IC-VIDEO PROCESS
<b>29"34" CRT</b>	QF10	0502-000153	SC2344-D	TR-POWER
	QF09	0502-000131	2SA1011-D	TR-POWER;
	IC501	1201-001131	6111Q	IC-VIDEO AMP
	IC502	1201-001131	6111Q	IC-VIDEO AMP
	IC503	1201-001131	6111Q	IC-VIDEO AMP
	IC504	1201-000010	2030	IC-OP AMP
<b>32" CRT</b>	IC505	1203-000165	78R12	IC-POSI.AJUST REG
	QF10	0502-000153	2SC2344-D	TR-POWER
	QF09	0502-000131	2SCA1011-D	TR-POWER
	IC501	1201-001588	6120Q	IC-VIDEO AMP
	IC502	1201-001588	6120Q	IC-VIDEO AMP
	IC503	1201-001588	6120Q	IC-VIDEO AMP
	IC504	1201-000010	2030	IC-OP AMP

### 3. Specifications

<b>Broadcasting System</b>	NTSC-M
<b>Tuning System</b>	Electronic Remote Control System
<b>Receiving Channels</b>	VHF (CH 2 ~ 13)
	UHF (CH 14 ~ 69)
	CATV (CH 1, 14 ~ 125)
<b>ANTENNA INPUT RESISTANCE</b>	VHF, UHF 75 unbalanced
<b>Intermediate Frequency</b>	Video: 45.75 MHz
	Sound: 41.25 MHz
	Chrominance Subcarrier: 42.17 MHz
<b>Power Supply</b>	AC 120V, 60Hz

# MEMO



## 4. Alignment and Adjustments

### 4-1 Adjustments

#### 4-1-1 General Alignment Instructions

Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as vertical size, horizontal size, and focus. Observe the picture and check for good black and white details. There must be no objectionable color shading: If color shading is present, demagnetize the receiver. If color shading persists, re-do purity and convergence adjustments.

**Note :**

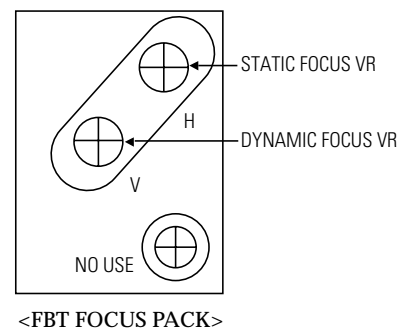
1. This '4. Alignment and Adjustments' applies to KS4A chassis applications.
2. AC Power Supply: 220 V only
3. This service manual has been written on the basis of domestic remote-control model adopting KS4A chassis. Depending on sales location and product specifications, some of specifications herein may be changed.

#### 4-1-2 Focus Adjustment

KS4A contains a dynamic focus circuit. When CRT PCB, FBT or CRT is replaced, be sure to adjust in the following sequence:

##### Dynamic Focus Adjustment

1. Input a crosshatch pattern.
2. Select "Standard" from the menu,
3. Turn the Static Focus VR clockwise to set it to its maximum.
4. Turn the Dynamic Focus VR counterclockwise to set it to its maximum.
5. Turn the Static Focus VR counterclockwise slowly for the clearest center vertical line.



6. Turn the Dynamic Focus VR clockwise slowly for the clearest third line.



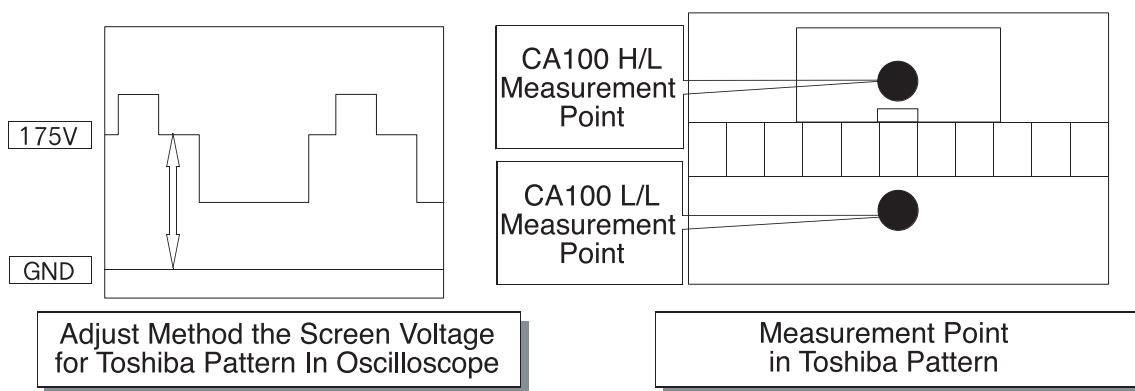
7. Check for the FOCUS of entire screen. If necessary, re-do adjustments 3-6.

### 4-1-3 Screen Voltage Adjustment

1. Enter the Service Mode by pressing the remote control keys in the following sequence : Power Off → Mute → 1 → 8 → 2 Power On
2. Initialize all set data.
3. Input a Toshiba pattern.
4. Use an oscilloscope to identify RK, BK, GK. And then adjust FBT Screen VR so that the voltage of pedestal level doesn't exceed 175V.  
 If a Toshiba pattern is not available, cancel the blue screen and input "No Signal" to AV IN so the voltage of pedestal level doesn't exceed 188V.  
 If an oscilloscope is not available, use a DC multi-meter in No Signal (black screen) to adjust RK, BK, GK so that the highest voltage becomes 175Vp-p.

### 4-1-4 White Balance Adjustment

1. Warm up the TV set for at least 30 minutes.
2. Enter the Service Mode by pressing the remote control keys in the following sequence: Power Off -> Mute → 1 → 8 → 2 → Power On
3. Initialize all set data.
4. Input a Toshiba pattern.
5. Using a probe (CA100), do the White Balance adjustments.
  - a) Adjust Low-Light.
    - Adjust Sub Brightness to set Y.
    - Adjust B Cutoff to set y.
    - Adjust R Cutoff to set x.
  - b) Adjust High-Light.
    - Adjust Sub Contrast to set Y.
    - Adjust B Drive to set y.
    - Adjust R Drive to set x.
  - c) Check the value of Low-Light. If necessary, readjust Low-Light.
  - d) Check the value of High-Light. If necessary, readjust High-Light.15



#### **4-1-5 When adjusting Screen Voltage and White Balance**

1. Screen Voltage and White Balance are related each other. Make sure both adjustments are correct.
2. Adjust Screen Voltage before White Balance Adjustments. Make sure Screen Voltage is correct.
3. If White Balance has been readjusted, re-check Screen Voltage.
4. After adjustments are complete, check the following.
  - If spots appear on the screen after pressing the Power On/Off key, readjust Screen Voltage.
  - If flyback lines appear on the screen, readjust Screen Voltage.

## 4-2 MICOM PORT

PIN	FUNCTION	FIRST STATE	ASSIGNMENT												
1	W-PORT	HIGH	- RESET Control jack during E2PROM latch UP (Function: Low)SERIAL H												
2	ROM SDA	SERIAL H	- E2PROM only SDA LINE												
3	ROM SCL	SERIAL H	- E2PROM only SCL LINE												
4	BUS-STOP	HIGH	- Automation and after-sales service related BUS STOP (STOP: LOW)												
5	MAIN SDA	SERIAL H	- CXA2150Q / CXA2151Q /VSP940X / BA7657F / MSP34XX / TUNER Control jack												
6	MAIN SCL	SERIAL H	- CXA2150Q / CXA2151Q /VSP940X / BA7657F / MSP34XX / TUNER Control jack												
7	S-RESET	HIGH	- Reset when MSP34XX IC (SOUND PROCESS IC) has an error (Active: LOW)												
8	V-RESET	HIGH	- Reset when VSP940X IC (1-chip IC) has an error												
9	VDD 2.5V	HIGH													
10	GND		- Analog GND												
11	VDD 3.3V	HIGH													
12	CVBS IN	IV p-p	- TTX and USA Caption Input source Line ( 1V p-p)												
13	VDD 2.5V	HIGH													
14	GND														
15	AFT		- Main AFT Control jack ( 0 - 3.3V)												
16	SC1-ID		<table border="1"> <thead> <tr> <th rowspan="2">RANGE</th> <th>TV MODE</th> <th colspan="2">AV MODE</th> </tr> <tr> <td></td> <th>16 : 9 MODE</th> <th>4 : 3 MODE</th> </tr> </thead> <tbody> <tr> <td>0 ~ 2V</td> <td></td> <td>4.5 ~ 7V</td> <td>9.5 ~ 12V</td> </tr> </tbody> </table>	RANGE	TV MODE	AV MODE			16 : 9 MODE	4 : 3 MODE	0 ~ 2V		4.5 ~ 7V	9.5 ~ 12V	
RANGE	TV MODE	AV MODE													
		16 : 9 MODE	4 : 3 MODE												
0 ~ 2V		4.5 ~ 7V	9.5 ~ 12V												
17	SC-2-ID														
18	KEY-1	HIGH	<table border="1"> <thead> <tr> <th></th> <th>MENU</th> <th>VOL-</th> <th>VOL+</th> <th>CH-</th> <th>CH+</th> </tr> </thead> <tbody> <tr> <th>PHILIPS</th> <td>0 ~ 0.1V</td> <td>0.1 ~ 0.7V</td> <td>0.7V ~ 13V</td> <td>1.3V ~ 1.9V</td> <td>0.9 ~ 2.4V</td> </tr> </tbody> </table>		MENU	VOL-	VOL+	CH-	CH+	PHILIPS	0 ~ 0.1V	0.1 ~ 0.7V	0.7V ~ 13V	1.3V ~ 1.9V	0.9 ~ 2.4V
	MENU	VOL-	VOL+	CH-	CH+										
PHILIPS	0 ~ 0.1V	0.1 ~ 0.7V	0.7V ~ 13V	1.3V ~ 1.9V	0.9 ~ 2.4V										
19	H-SYNC	POSITIVE	- MICOM "H-SYNC" Input, POSITIVE Input (3.3 V p-p)												
20	V-SYNC	POSITIVE	- MICOM "V-SYNC" Input, POSITIVE Input (3.3 V p-p)												
21	KEY-3	HIGH	- Power ON/OFF Control jack												
22	KEY-2	HIGH	- TV/VIDEO switching control jack												
23	X-RAY	HIGH	- Function: Low												
24	IR-IN		- Remote Control Input Jack												
25	STD-LED	HIGH	- STANDBY: Hight, OFF: LOW												
26	TIM-LED	LOW	- TIME ON: H TIME OFF: L												
27	RELAY		- DEGAUSSING COIL CONTROL: Based on standard specifications												
28	SW1	HIGH	- H: IN1, L: IN2 (BA7657F) PIN (#16) Control jack												
29	GND														
30	VDD 3.3V	HIGH													
31(33)	RESET	LOW	- Reset active : HIGH												
32(34)	X-IN		- Crystal oscillation input jack												
33(35)	X-OUT		- Crystal oscillation output jack												
34(36)	GND														
35(37)	VDD 2.5V	HIGH													
36(38)	OSD-R	1.2V p-p	- OSD R-OUT OUTPUT jack (0.38V p-p) ,half tone: 0.9V p-p												
37(39)	OSD-G	1.2V p-p	- OSD G-OUT OUTPUT jack (0.38V p-p) ,half tone: 0.9V p-p												

PIN	FUNCTION	FIRST STATE	ASSIGNMENT									
37(40)	OSD-B	1.2V p-p	- OSD B-OUT OUTPUT jack (0.38V p-p) ,half tone: 0.9V p-p									
38(41)	CORE	0.9V p-p	- OSD F/B OUTPUT jack (Clamped at SAND PULSE, Half Tone: "LOW")									
39(42)	VDD 2.5V	HIGH										
40(43)	GND											
41(44)	VDD 3.3V	HIGH										
42(45)	PX, Y	HIGH	- V-SYNC INPUT									
43(46)	PX, Y	HIGH	- F/B INPUT JACK									
44(47)	SW3	H	<table border="1"> <thead> <tr> <th>F1</th> <th>F0</th> <th>fH</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>M</td> <td>1.75KHz (480i/480P)</td> </tr> <tr> <td>M</td> <td>L</td> <td>33.75KHz (1080i)</td> </tr> </tbody> </table> <p>LOW: GNDHIGH : OPEN STATUS Initially, these pins select an input source at LOW state</p>	F1	F0	fH	L	M	1.75KHz (480i/480P)	M	L	33.75KHz (1080i)
F1	F0	fH										
L	M	1.75KHz (480i/480P)										
M	L	33.75KHz (1080i)										
45(48)	SW2	L										
46(49)	S-MUTE		- System (NTSC/PAL) MUST be separated									
47(50)	POWER		- Active "LOW"									
48(51)	H.P-ID		- 1080I control jack: 1080i (LOW), RF (High)									
49(52)	TILT	HIGH	- Magnetic field control									

## 4-3 Factory Adjustment Values and White Balance Settings

### 4-3-1 Factory Adjustment Values

**SERVICE**  
 Deflection  
 480P Offset  
 1080i Offset  
 PC Offset  
 Video Adjust 1  
 Video Adjust 2  
 Option (2EH 00H)  
 Reset

### 4-3-2 White Balance Settings

		SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT
W/B Value	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
	H	275/265 45FL	275/265 50FL	275/265 40FL	275/265 45FL	275/265 40FL	275/265 45FL	275/265 45FL	275/265 40FL
L	275/265 1.0FL	275/265 1.5FL	275/265 1.0FL	275/265 1.0FL	275/265 1.0FL	275/265 1.0FL	275/265 1.0FL	275/265 1.0FL	

## 4-4 Functions of Each Port in Service Mode



### DEFLECTION

 : Fixed Value

ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
V-AMP	45	30	50	30	42	45	30	50	
V-SHIFT	26	30	28	30	29	26	30	28	
H-EW	46	30	30	30	20	46	30	30	
H-SHIFT	27	25	25	30	31	27	30	25	
V-LIN	5	6	5	6	10	5	6	5	
UP-LIN	6	4	7	4	15	6	4	7	
LOW-LIN	6	4	7	4	5	6	4	7	
V-SC	3	3	3	3	5	3	3	3	
H-PAR	24	32	40	32	45	24	32	40	
UP-COR	27	35	40	35	38	27	35	40	
LOW-COR	26	35	35	35	41	26	35	35	
H-TRA	37	35	45	35	28	37	35	45	
BOW	32	30	32	30	31	32	30	32	
ANGLE	32	32	32	32	30	32	32	32	
V-POSI	32	32	32	32	32	32	32	32	
CXA Left BLK	30	30	30	30	30	30	30	30	
CXA Right BLK	37	37	37	37	37	37	37	37	



ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
V-AMP	0	0	2	0	1	0	0	2	
V-SHIFT	-2	-1	-1	-1	0	-2	-1	-1	
H-EW	7	6	4	6	4	7	6	4	
H-SHIFT	8	3	8	3	4	8	3	8	
V-LIN	0	0	0	0	0	0	0	0	
UP-LIN	0	0	0	0	0	0	0	0	
LOW-LIN	0	0	0	0	0	0	0	0	
V-SC	0	0	0	0	0	0	0	0	
H-PAR	0	2	-2	2	-2	0	2	-2	
UP-COR	0	0	0	0	0	0	0	0	
LOW-COR	0	0	0	0	0	0	0	0	
H-TRA	0	0	0	0	0	0	0	0	
BOW	0	0	0	0	0	0	0	0	
ANGLE	0	0	0	0	0	0	0	0	
V-POSI	0	0	0	0	0	0	0	0	
CXA Left BLK	28	28	28	28	28	28	28	28	
CXA Right BLK	36	36	36	36	36	36	36	36	





ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
V-AMP	-14	-13	-15	-13	-12	-14	-13	-15	
V-SHIFT	-5	-4	-4	-4	-3	-5	-4	-4	
H-EW	8	0	10	0	9	8	0	10	
H-SHIFT	1	-1	-1	-1	-1	1	-1	1	
V-LIN	0	0	0	0	0	0	0	0	
UP-LIN	0	0	0	0	0	0	0	0	
LOW-LIN	0	0	0	0	0	0	0	0	
V-SC	0	0	0	0	0	0	0	0	
H-PAR	0	-7	-3	-7	7	0	-7	-3	
UP-COR	0	-3	0	-3	-1	0	-3	0	
LOW-COR	-2	-1	0	-1	1	-2	-1	0	
H-TRA	3	-3	-3	-3	-3	3	-3	-3	
BOW	4	0	-2	0	1	4	0	-2	
ANGLE	2	0	0	0	0	2	0	0	
V-POSI	0	0	0	0	0	0	0	0	
CXA Left BLK	50	50	50	50	50	50	50	50	
CXA Right BLK	27	27	27	27	27	27	27	27	



ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
V-AMP	*	*	*	*	*	-22	-16	-16	
V-SHIFT	*	*	*	*	*	0	0	0	
H-EW	*	*	*	*	*	-26	-20	-21	
H-SHIFT	*	*	*	*	*	19	18	16	
V-LIN	*	*	*	*	*	0	0	0	
UP-LIN	*	*	*	*	*	0	0	0	
LOW-LIN	*	*	*	*	*	0	0	0	
V-SC	*	*	*	*	*	0	0	0	
H-PAR	*	*	*	*	*	8	4	7	
UP-COR	*	*	*	*	*	2	5	2	
LOW-COR	*	*	*	*	*	2	2	2	
H-TRA	*	*	*	*	*	0	0	0	
BOW	*	*	*	*	*	0	0	0	
ANGLE	*	*	*	*	*	0	0	0	
V-POSI	*	*	*	*	*	0	0	0	
CXA Left BLK	*	*	*	*	*	20	20	20	
CXA Right BLK	*	*	*	*	*	10	10	10	



## VIDEO ADJUST 1

: Fixed Value

ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
R-Cutoff	32	32	32	32	32	32	32	32	
G-Cutoff	32	32	32	32	32	32	32	32	
B-Cutoff	32	32	32	32	32	32	32	32	
Color on/off	1	1	1	1	1	1	1	1	
CR offset	31	31	31	31	31	31	31	31	
CB offset	31	31	31	31	31	31	31	31	
R-Drive	32	32	32	32	32	32	32	32	
G-Drive	32	24	32	32	32	32	32	32	
B-Drive	32	32	32	32	32	32	32	32	
Sub-Bright	23	25	10	20	10	23	20	10	
Sub-Contrast	10	10	10	10	5	10	10	10	
Sub-Color	18	18	18	18	18	18	18	18	
Sub-Tint	7	7	7	7	7	7	7	7	
CTI-Level	1	1	1	1	1	1	1	1	
COL AXIS	2	2	2	2	2	2	2	2	
LTI-Level	1	1	1	1	1	1	1	1	
PC DPIC Level	*	*	*	*	*	0	0	0	
PC DC Trans	*	*	*	*	*	0	0	0	
PC VM Level	*	*	*	*	*	0	0	0	



**VIDEO ADJUST21**

ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
ABL Mode	3	3	3	3	3	3	3	3	
Gamma	1	1	1	2	2	1	1	2	
DPIC Level	3	3	3	3	3	3	3	3	
DC Trans	3	3	3	3	3	3	3	3	
ABL-TH	7	12	7	15	15	7	12	7	
VM-Level	2	2	1	2	2	2	2	1	
VM-Coring	1	0	0	3	0	1	0	0	
VM-f0	2	2	2	2	2	2	2	2	
VM-Limit	3	3	0	3	0	3	3	0	
VM-Delay	3	3	1	3	1	3	3	1	
SHP CD	1	1	1	1	1	1	1	1	
SHP f0	0	0	0	0	0	0	0	0	
SHP f1&p/o	11	14	4	14	14	11	14	4	
AKB Time	16	16	16	16	16	16	16	16	
YC Delay	30	30	30	30	30	30	30	30	
PIP YC Delay	3	3	3	3	3	3	3	3	
Band Pass F	2	2	1	2	2	2	2	1	
High Pass F	4	4	3	4	4	4	4	3	



### VIDEO ADJUST 3

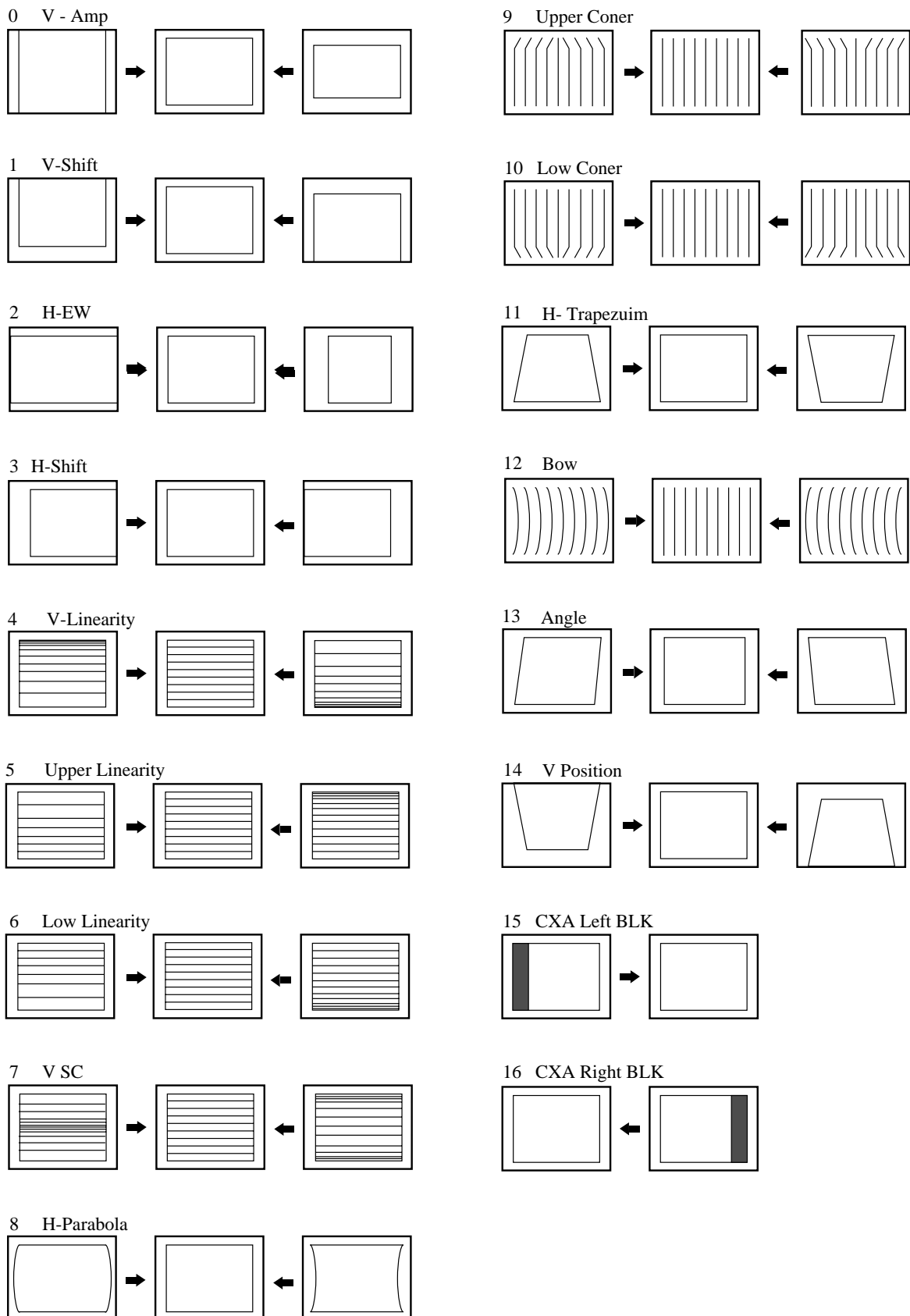
ITEM	SDI CRT	LG CRT	TOSHIBA CRT	SDI CRT	SDI CRT	SDI CRT	SDI CRT	TOSHIBA CRT	
	INCH	29" WIDE	32" WIDE	34" FLAT	32" WIDE	34" FLAT	29" FLAT	32" WIDE	34" FLAT
	Model	TXM2796HFX TXM2796HFX TXM2798HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	TXM3096HFX TXM3097HFX TXM3098HFX	TXM3296HFX TXM3297HFX TXM3298HFX	CT29Z7PGX	CT32Z7PGX	CT34Z7PGX
VSU	2	2	2	2	2	2	2	2	
Melody Volume	4	4	4	4	4	4	4	4	
H comp	5	8	8	8	10	5	8	8	
V comp	3	5	5	5	10	3	5	5	
PIN comp	0	0	3	0	6	0	0	3	
AFC comp	0	0	0	0	0	0	0	0	
Sync Phase	0	0	0	0	0	0	0	0	
NR Off Value	7	7	5	7	5	7	7	5	
480P CR	35	35	35	35	35	35	35	35	
480P CB	35	35	35	35	35	35	35	35	
480P S Color	15	18	15	18	18	15	18	15	
480P S Tint	10	10	10	10	10	10	10	10	
1080i CR	33	33	33	33	33	33	33	33	
1080i CB	33	33	33	33	33	33	33	33	
1080i S Color	15	18	15	18	18	15	18	15	
1080i S Tint	10	10	10	10	10	10	10	10	
V-MUTE (X100ms)	3	3	3	3	3	3	3	3	
PC H Comp	*	*	*	*	*	10	10	10	
PC V Comp	*	*	*	*	*	5	5	5	



**OPTION BYTE**

Option	Model	TXM3297HFX	TXM2796HFX TXM3296HFX	TXM2797HFX	TXM2798HFX TXM3298HFX	TXM3096HFX	TXM3097HFX	TXM3098HFX	CT29Z7PGX CT34Z7PGX	TXM3098HFX
1. CRT		4 : 3	4 : 3	4 : 3	4 : 3	WIDE	WIDE	WIDE	4 : 3	WIDE
2. PIP(D/W)		ON	OFF	OFF	ON	OFF	ON	ON	ON	ON
3. 3D-COMB Filter		OFF	OFF	OFF	ON	OFF	OFF	ON	ON	ON
4. Blue Screen		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
5. BBE Effect		ON	OFF	ON	ON	OFF	ON	ON	ON	ON
6. Equalizer		ON	ON	ON	ON	ON	ON	ON	ON	ON
7. Auto Power On		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8. System		CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)
9. Virtual Dolby		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
10. ACS		ON	ON	ON	ON	ON	ON	ON	OFF	OFF
11. V Chip (CT,CTA)		ON	ON	ON	ON	ON	ON	ON	OFF	OFF
12. V Chip Area		USA	USA	USA	USA	USA	USA	USA	USA	USA
13. SUB Woofer		OFF	OFF	OFF	ON	OFF	OFF	ON	ON	ON
14. No Sync Mute		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
15. X-Ray		ON	ON	ON	ON	ON	ON	ON	OFF	OFF
16. AGC		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
17. Turbo Effect		OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
18. Burst Screen		ON	ON	ON	ON	ON	ON	ON	ON	ON
19. LNA Option		ON	OFF	OFF	ON	OFF	ON	ON	ON	ON
20. PC Option		OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON

## 4-8 Screen Change (I2C Bus Geometric Adjustment)

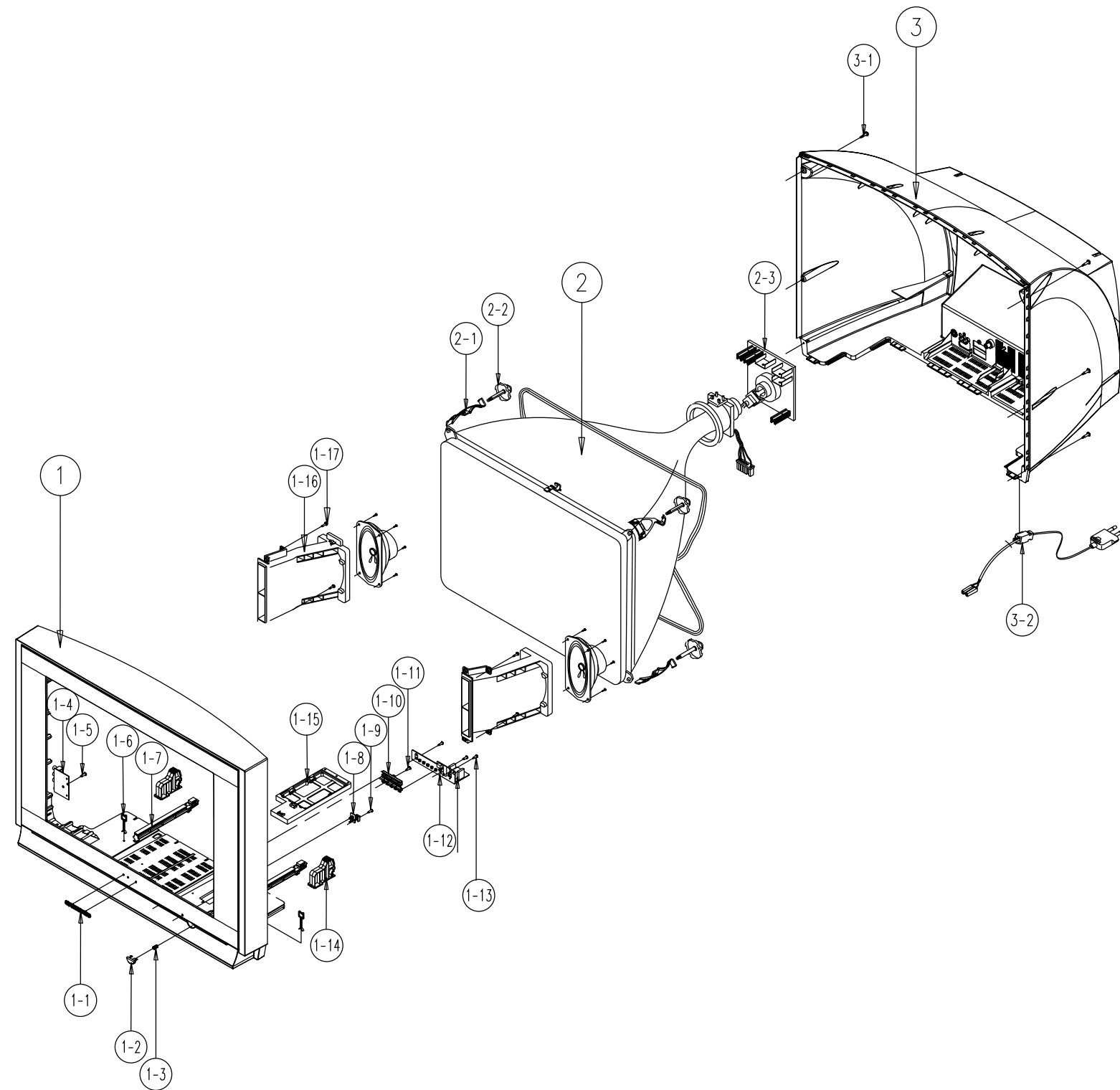


# MEMO



## 5. Exploded View & Parts List

### 5-1 TXM3281HFX/XAA



No	Code No	Description;Specification	Q'ty	Remark	S.N.A
1	AA64-03172A	CABINET-FRONT;34M9,HIPS,V0,BLK,DG703P	1	A/CF	
1-1	AA64-70124C	BADGE-BRAND;AL,R2500,SILVER,L=70,SAMSUNG	1	BADGE	
1-2	AA64-02567A	KNOB-POWER;M9,ABS,HB,G3676,SVM3012	1	KP	
1-3	AA61-60003T	SPRING-CS;-,-,SUS304,0.5,OD7,H	1	SPRING	
1-4	AA96-00971A	ASSY MISC,A/V SIDE,TXM3297,2797,SEA,K55A	1	A/SIDE	
1-5	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	2	AV+CF	
1-6	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M	1	CWFCR	
1-7	AA61-00711B	HOLDER-PCB;29U1,U2,HIPS FV2,BK502(HB-PRO	2	H/PCB	
1-8	AA64-02568A	WINDOW-RMC,LED;M9,PC,CLR	1	WR	
1-9	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	WIN+CF	
1-10	AA64-02566A	KNOB-CONTROL;M9,ABS,HB,G3676,SVM3012	1	KC	
1-11	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	KC+CF	
1-12	AA96-00969A	ASSY MISC P;CONTROL TXM3297,2797,K55A	1	A/CTRL	
1-13	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	3	PCB+CF	
1-14	AA61-01065A	SUPPORT-CRT;29M9,HIPS HB,NTR	2	S/CRT	
1-15	AA61-00552B	HOLDER-PCB;29K3,HIPS,-,-,-,BLK,V0	1	H/PCB	
1-16	AA91-00507B	ASSY HOLDER SPK;DP,-,8ohm/15W,-,29K1 CKD	1	A/HSPK	
1-17	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)	8	SPK+CF	
2	AA03-00357A	CRT COLOR;A80QE891X002,+380MG,0.35MH,9.	1	CRT	
2-1	AA27-00275A	COIL DEGAUSSING;SDI 34,14MH,10%,60TS,1	1	D-COIL	
2-2	AA60-10050V	SCREW-ASSY;WC,HH,+,M6,L30,SWRCH18A,ZPC(S	4	CRT+CF	
2-3	3704-001032	SOCKET-CRT;8P,29PI,35.5PI,AU30U	1	V999S	
3	AA64-02565A	CABINET-BACK;34M9,HIPS,V0,BLK	1	B/C	
3-1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	8	CB+CF	
3-2	AA96-20129B	ASSY-POWER,CORD;-,-,EP2,H/CD=450,ME301P,	1	PWR/AC	

## 6. Electrical Parts List

### 6-1 TXM3281HFX/XAA

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY CHASSIS</b>							
1	A/CHAS	AA91-04234A	ASSY CHASSIS;TXM3296HFX/XAA,U.S.A				
2	C-BLOC	AA26-00069A	TRANS FBT;FUJ-29C002C(S),DREAM3,4,-,-,-	4	AA60-30003A	WASHER;-,-,-,T1.5,-,SBHG-1	
2	A/MAIN	AA94-08398A	ASSY PCB MAIN;TXM3296HFX/XAA,K55A,U.S.A	4	AA62-00052A	HEAT SINK-PS;-,-,-,SILVER,HOLE 18.5mm, 2	
3		0202-000008	SOLDER-WIRE,S63S-D3.0,S63A,D3.63/37	3	HC801	AA96-00475A	ASSY H/S;-REGULATOR,AA62-00066B,FML-G1
3		0202-000187	SOLDER-WIREFLUX;-RS60S,D1.2.6	4	0205-000129	GREASE-SILICON;SC102,JAPAN	
3		0204-000442	SOLVENT;CH3-CH5H-CH396%IM-1000	4	0402-000233	DIODE-RECTIFIER;FML-G12S,200V,	
3		0204-001024	FLUX;DF-96TVS,-,20%,-	4	0402-001230	DIODE-RECTIFIER;FMG-G2CS,1000V,3A,TO-22	
3	Q402	0505-001116	FET-SILICON;BUZ73A,N,200V,22A,0.6ohm,40W	4	1203-001006	IC-VOLTAGEREGULATOR78R05,TO-220F,4P	
△3	PC801S	0604-001038	PHOTOCOUPLER;TR,130-260%,200MW	△3	PWR/AC	AA96-20129B	ASSY-POWER,CORD;-EP2,H/CD=450,ME301P,
3	IC902	1103-001177	IC-EEPROM24WC16,2048x8bit,DIP,8P,2.5V	4	AA39-10007Y	POWER-CORD;-EP2/YES,SPT-2 18AWGx2C,2.4m	
△3	IC401	1202-000103	IC-VOLTAGECOMP;393,DIP,8P,300MIL,DUAL,	4	AA61-20284A	HOLDER P CORD;PPV0,BLK,KE-002	
△3	IC803	1203-001225	IC-POSIL.FIXEDREG.;78R09,TO-220,4P,-,PLA	3	IC602	AA96-50369D	ASSY H/S;-SOUND,AA62-30181F,TDA7269,HER
3	IC601	1204-001972	IC-SOUND PROCESSOR;MSP3420G-PO-B10,DIP,5	4	0205-000129	GREASE-SILICON;SC102,JAPAN	
△3	PT801S	1404-001276	THERMISTOR-PTC;1.5OHM,+30/-20%,110V,140V	4	1201-001385	IC-POWER AMP;7269A,ZIP,11,19.6,DUAL,13,P	
3	C423	2301-001296	C-FILM,MPPF;720NF,5%,400V,BK,26X15.5X20M	4	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	
△3	CR405S	2301-001583	C-FILM,PPF;3NF,5%,2KV,TP,25X13X7MM,20	4	AA62-30181F	HEAT-SINK,ES;-AL6063 EXTR.,2,WHT,50MM,-	
△3	CR406S	2301-001583	C-FILM,PPF;3NF,5%,2KV,TP,25X13X7MM,20	△3	IC801S	AA96-50371H	ASSY H/S;-SMPS,AA62-30181H,5Q1565RF,HER
△3	CR407S	2301-001398	C-FILM,MPPF;3.3nF,5%,2KV,TP,29x8.5x1.5mm	4	0205-000129	GREASE-SILICON;SC102,JAPAN	
3	C806	2306-000112	C-FILM,MPPF;100NF,20%,250V,-,1	4	1203-002512	IC-PWM CONTROLLER;KA501565RF-YDTU,TO-3PF	
3	C426	2306-001004	C-FILM,MPPF;300nF,5%,400V,TP,26x14x21mm,	4	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	
△3	CR801S	2306-000318	C-FILM,MPPF;220NF,20%,250V,-,2	4	AA61-11028A	BRACKET-IC;SECC,T1.0,-	
△3	CX802S	2306-000318	C-FILM,MPPF;220NF,20%,250V,-,2	4	AA62-30181H	HEATSINK-ES;-AL6063EXTR.,2,WHT,50MM,-	
3	C803	2401-001676	C-AL;820UF,20%,250V,GP,-,35x40mm,10	3	IC301	AA96-50381A	ASSY-H/S;-AA62-30180B,LA7845,-
3	C815	2401-000822	C-ELECTROLYTIC;CE04W200V220U-H	4	0205-000129	GREASE-SILICON;SC102,JAPAN	
3	C820	2401-003419	C-AL;2200uF,20%,50V,WT,TP,16X35.5mm	4	1204-000517	IC-LINEAR;LA7845SIPVERTICALAMP	
△3	RL801S	3501-001053	RELAY-POWER;5Vdc,530mV,10A,1FormA,15mS,5	4	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	
△3	FP801S	3601-000293	FUSE-CARTRIDGE;250V,5A,SLOW-BLOW,GLASS,5	4	AA62-30180B	HEAT-SINK,ES;-A6063 EXTR.,2,WHT,70MM,-	
3	CN601	3711-002644	POST-HEADER;67094-005(AUTO)	3	BH99-00007S	ASSY HEAT/SINK;KSC2073,MICOM,HERCULES,BH	
3	CN901	3711-002645	POST-HEADER;67094-006(AUTO)	4	Q804	BH99-00007S	ASSY HEAT/SINK;KSC2073,MICOM,HERCULES,BH
3	CN902	3711-003043	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGH	4	CIS	0205-001027	OIL-SILICON;G746
3	JA701	3722-001765	JACK-PIN;9P(9P);-NI,YEL/GRN/WHT/BLU/RED	4	CIS	0502-001007	TR-POWER;KSC2073-H2,NPN,150V,1
3	JA702	3722-001766	JACK-PIN;7P(9P);-NI,GN/WH/WH/BL/RD/RD/R	4	CIS	BH61-00004A	SPRING TR;SUS304,W1/2H,TO.4,W3.5
3	IC901	AA09-00041A	IC-MCU;SDA555X-OTP,SDA555X-OTP,-,52	4	CIS	BH62-00007A	HEAT SINK TR T1.0,L20*H30 CDA
△3	T801S	AA26-00010A	TRANS-SWITCHING;EER5345,HERCULES,90-264V	3	A/AUTO	AA97-07474A	ASSY AUTO-MAIN;TXM3296HFX/XAA,K55A
△3	T444S	AA26-00180A	TRANS FBT;FUJ-34H002F,FUJ-34H002F;135V,3	4	D201	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	T401	AA26-50001S	TRANS-HORIZ.DRIVE;-,-,6.0mH,-,44uH,-	4	D202	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	LR403S	AA27-300030	COIL-LINEARLITY;-8.8uH,YL81 15x18,USTCO	4	D207	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	LR405S	AA27-00096A	COIL HORIZ. WIDTH;-10.0mH,DR15 X 27.5,U	4	D405	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	L808	AA27-00098A	COIL CHOKE;-24uH,10%,-,0.1,3.0A,DR10X	4	D410	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	LR402S	AA27-10004F	COIL-CHOKE;-56uH,K,-,2.5A,BK,-,DR12x15,	4	D603	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	LR404S	AA27-00031A	COIL-HORIZ.WIDTH;-140UH,AR 8X20,0.8MM,B	4	D604	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	LX801S	AA29-00011A	FILTER LINE NOISE;CZ32W8,-,0.20MAX,1.5KV	△4	D805	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
△3	LX802S	AA29-00012A	FILTER LINE NOISE;CS29A6PF8X/HAC,-,0.1MA	△4	D812	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	CN502	3711-002647	POST-HEADER;67094-008(AUTO)	4	D403	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
3	CN702	3711-003641	CONNECTOR-HEADER;BOX,12P,1R,2.	△4	D607	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
△3	TU01S	AA40-00020A	TUNER-F/S;TCLN3181PA09A(S),NTSC,TR,181CH	△4	D808	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
3	H-COVE	AA61-00707B	HOLDER-COVER;ALL MODEL,NYLON-66 T1.0 V2,	4	D907	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
3	L/PQS	AA68-01018A	LABEL-PQS,-,50mmX13,-,WHITE,-	4	D409	0402-000493	DIODE-RECTIFIER;1RS5U41,400V,1
△3	IC805	AA96-00243K	ASSY H/S;-REGULATOR,AA62-00045A,KA78R0	4	D402	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.5
4		0205-000129	GREASE-SILICON;SC102,JAPAN	4	D404	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.5
4		1203-001006	IC-VOLTAGEREGULATOR78R05,TO-220F,4P	4	D408	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.5
4		6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR	4	D411	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.5
4		AA62-00045A	HEAT SINK-PS;-T1.0,-,DREAM,-,-,-,-	△4	DR01S	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.5
3	HC401	AA96-00275G	ASSY H/S;-HORIZONTAL,AA62-00051A,FMP3FU	4	D401	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5
4		0205-000129	GREASE-SILICON;SC102,JAPAN	4	D301	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
4		0402-001296	DIODE-RECTIFIER;FMP-3FU,1500V,5A,TO-3PF	△4	D803	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
4		0502-001230	TR-POWER;FJL6920YDTU,N,200000MW,TO-264 F	△4	D804	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
4		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	△4	D816	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
4		AA60-30001A	WASHER-PLATE;-M3,ID3.5,15X8.5,T1.0,-,SB	4	DZ601	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
4		AA62-00051A	HEAT SINK-PS;-,-,SILVER,HOLE 31mm,ALL,	4	DZ603	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
4		AA02-00007A	MICA;DPM-04,MICA,22x29x0.15mm	4	DZ604	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
△3	D801S	AA96-00276C	ASSY H/S;-BRIDGE,AA62-00052A,GSIB660,	4	DZ605	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
4		0205-000129	GREASE-SILICON;SC102,JAPAN	4	DZ606	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
4		0402-001399	DIODE-BRIDGE;GSIB660,600V,6A,SIP-4,BK	4	DZ808	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
4		6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR	4	DZ902	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
				4	DZ906	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
				4	DZ908	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500

Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
4	DZ909	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	4	R309	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ910	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	4	R310	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ911	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	4	R606	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ912	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	4	R628	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ404	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	4	R630	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ306	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,	4	R632	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ804	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,	4	R715	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ802	0403-000716	DIODE-ZENER;MTZJ4.7B,4.7V,4.55-4.8V,500m	4	R716	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ304	0403-001221	DIODE-ZENER;UZ39BSB,35.36-37.19V,500mW,D	4	R935	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ806	0403-001317	DIODE-ZENER;MTZJ3.0B,3.01-3.22V,500mW,DO	4	R967	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
△	DZR01S	0403-001321	DIODE-ZENER;MTZJ6.8C,6.66-7.01V,500mW,DO	4	R973	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ602	0403-001322	DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500mW,DO	△	RR10S	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP
4	DZ801	0403-001322	DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500mW,DO	4	R601	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ401	0403-001325	DIODE-ZENER;MTZJ15C,14.35-15.09V,500mW,D	4	R602	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ803	0403-001327	DIODE-ZENER;MTZJ18A,16.22-17.06V,500mW,D	4	R603	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ302	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,D	4	R816	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ303	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,D	4	R817	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ305	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,D	4	R840	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ307	0403-001330	DIODE-ZENER;MTZJ30A,26.99-28.39V,500mW,D	4	R902	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	DZ807	0403-001330	DIODE-ZENER;MTZJ30A,26.99-28.39V,500mW,D	4	R914	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	D901	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	4	R924	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	D902	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	4	R936	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	D903	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	4	R963	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	D904	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	4	R972	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
△	QR01S	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM	4	R974	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	Q802	0501-000369	TRANSISTOR;KSC2331-Y(TAPG)	△	RR08S	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
4	Q601	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R981	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP
4	Q603	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R982	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP
4	Q801	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R983	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP
4	Q803	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R984	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP
4	Q901	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R629	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP
4	Q906	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R823	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP
4	Q907	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R937	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP
4	Q908	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R953	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP
4	Q911	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R961	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP
4	Q912	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R952	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP
4	Q913	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R911	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP
4	Q914	0501-000389	TRANSISTOR;KSA815-Y(TAPG)/YTAM	4	R623	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP
△	QR02S	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	4	R633	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP
4	Q909	0505-000109	FET-SILICON;2N7000,N,60V,200mA,5ohm,400	4	R105	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP
4	Q910	0505-000109	FET-SILICON;2N7000,N,60V,200mA,5ohm,400	4	R717	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP
△	IC804	1203-001217	IC-POST,ADJUSTREG;431,T0-92,3P,4.58MIL,P	4	R718	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP
△	IC904	1203-001943	IC-VOL.DETECTOR;7025,T0-92,3P,PLASTIC	4	R617	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
△	VP801S	1405-000187	VARIATOR;750V,1250A,12.5x7mm,TP	4	R618	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
△	VX801S	1405-000187	VARIATOR;750V,1250A,12.5x7mm,TP	4	R842	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R303	2001-000016	R-CARBON(S);10HM,5%,1/2W,AA,TP	4	R901	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R801	2001-000019	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4mm	4	R903	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R317	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,	4	R904	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R810	2001-000109	R-CARBON(S);470OHM,5%,1/2W,AA,	4	R905	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R624	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP	4	R906	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R631	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP	4	R908	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R822	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP	4	R909	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R102	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R921	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R103	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R927	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R203	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R928	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R204	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R938	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R604	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R945	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R605	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R946	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R610	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R949	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R611	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R965	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R612	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R966	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R613	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R988	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP
4	R723	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R607	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R915	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R608	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R916	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R609	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R917	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R614	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R925	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R615	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R940	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R616	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R941	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R809	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R942	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R812	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R947	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R813	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R948	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R910	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R950	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R919	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R951	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R920	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R954	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	△	RR09S	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R955	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R958	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
4	R968	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP	4	R960	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
4	R926	2001-000793	R-CARBON;470HM,5%,1/8W,AA,TP,1	4	R304	2008-001108	R-FUSIBLE(S);1.2ohm,5%,2W,AG,TP,3.9x12mm
4	R841	2001-000800	R-CARBON;5.1KOHM,5%,1/8W,AA,TP	4	R424	2008-001109	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12
4	R106	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	4	R425	2008-001109	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12
4	R101	2001-000869	R-CARBON;560HM,5%,1/8W,AA,TP,1	4	R307	2008-001114	R-FUSIBLE(S);1.5ohm,5%,2W,AG,TP,3.9x12mm
△	RR04S	2001-000908	R-CARBON ;62Kohm,5%,1/8W,AA,TP,1.8x3.2mm	4	C303	2201-000132	C-CERAMIC,DISC;100PF,10%,500V,Y5P,6X3MM,
4	R922	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	4	C424	2201-000132	C-CERAMIC,DISC;100PF,10%,500V,Y5P,6X3MM,
4	R923	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	4	C656	2201-000304	C-CERAMIC,DISCO.001nF,0.25pF,50V,NPO,TP
4	R710	2001-000938	R-CARBON ;68ohm,5%,1/8W,AA,TP,1.8x3.2mm	4	C657	2201-000304	C-CERAMIC,DISCO.001nF,0.25pF,50V,NPO,TP
4	R913	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP	4	C804	2201-000332	C-CERAMIC,AC;CK45PTAPGE250V222
4	R704	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1	4	C805	2201-000332	C-CERAMIC,AC;CK45PTAPGE250V222
△	RR06S	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	4	C632	2201-000370	C-CERAMIC,DISC;220PF,10%,50V,Y5F,TP
4	R907	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,	4	C828	2201-000374	C-CERAMIC,DISC;220pF,5%,50V,CH,TP,12.5x3
4	R838	2001-001050	R-CARBON(S);1.5KOHM,5%,1/2W,AA,TP,2.4X6.	4	C814	2201-002028	C-CERAMIC,DISC;0.47nF,10%,2kV,Y5P,TP,7.5
4	R419	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	4	C401	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,
4	R421	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	4	C403	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,
4	R626	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	4	C421	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,
4	R627	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	△	CR01S	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,
4	R314	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C601	2201-000558	C-CERAMIC,DISC;470PF,10%,50V,Y
4	R315	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C817	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,
4	D601	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C819	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,
4	D602	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C822	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,
4	D605	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C654	2201-000611	C-CERAMIC,DISC;56PF,5%,50V,NPO
4	D606	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C910	2201-000980	C-CERAMIC,DISC;30PF,5%,50V,NPO,5.0X3.0,5
4	R820	2001-001096	R-CARBON(S);2.2OHM,5%,1/2W,AA,	4	C911	2201-000980	C-CERAMIC,DISC;30PF,5%,50V,NPO,5.0X3.0,5
△	RR05S	2001-001103	R-CARBON(S);20KOHM,5%,1/2W,AA,TP,2.4X6.4	4	C830	2201-000984	C-CERAMIC,DISC;680PF,10%,2KV,Y
4	R418	2001-000337	R-CARBON(S);330OHM,5%,1/2W,AA,	4	C109	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,
4	R316	2001-001129	R-CARBON(S);330KOHM,5%,1/2W,AA,	4	C110	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,
4	R818	2001-001131	R-CARBON(S);33KOHM,5%,1/2W,AA,	4	C624	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R634	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,	4	C627	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R635	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,	4	C629	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
△	RR02S	2001-001149	R-CARBON(S);43KOHM,5%,1/2W,AA,	4	C633	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R805	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,	4	C636	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R806	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,	4	C637	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R301	2001-001163	R-CARBON(S);560OHM,5%,1/2W,AA,	4	C638	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R432	2001-001179	R-CARBON(S);68KOHM,5%,1/2W,AA,	4	C639	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R811	2001-001188	R-CARBON(S);8.2KOHM,5%,1/2W,AA,TP,2.4X6.	4	C642	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
4	R808	2001-001197	R-CARBON(S);910OHM,5%,1/2W,AB,TP,2.4X6.4	4	C906	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.
△	RP802S	2002-001010	R-COMPOSITION;1.8MOHM,5%,1/2W,AA,TP,3.7X	4	C701	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50
△	RY801S	2002-001012	R-COMPOSITION;8.2MOhm,5%,1/2W,AA,TP,3.7X	4	C647	2202-000286	C-CERAMIC,MLC-AXIAL;56PF,5%,50
4	R403	2003-000532	R-METALOXIDE(S);180HM,5%,2W,AD,TP,4X12MM	4	C924	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP
4	R426	2003-000540	R-METALOXIDE(S);1KOHM,5%,2W,AD	4	C903	2202-000719	C-CERAMIC,MLC-AXIAL;6.8nF,20%,16V,Y5R,TP
4	R433	2003-000540	R-METALOXIDE(S);1KOHM,5%,2W,AD	4	C606	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50
4	R802	2003-000586	R-METALOXIDE(S);22KOHM,5%,2W,A	4	C607	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50
4	R803	2003-000586	R-METALOXIDE(S);22KOHM,5%,2W,A	4	C608	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50
4	R804	2003-000586	R-METALOXIDE(S);22KOHM,5%,2W,A	4	C615	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50
4	R412	2003-000592	R-METALOXIDE(S);220HM,5%,2W,AD	4	C905	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50
4	R409	2003-000998	R-METALOXIDE;300OHM,5%,2W,AF,T	4	C901	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20
4	R410	2003-000998	R-METALOXIDE;300OHM,5%,2W,AF,T	4	C919	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20
4	R401	2003-001025	R-METALOXIDE(S);15KOHM,5%,2W,A	4	C921	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20
4	R402	2003-001025	R-METALOXIDE(S);15KOHM,5%,2W,A	4	C116	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20
4	R416	2003-001025	R-METALOXIDE(S);15KOHM,5%,2W,A	4	C928	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20
4	R435	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7	4	C649	2301-000108	C-FILM,PEF;1.5NF,5%,50V,6.5X3.0X5.5MM,5M
4	R830	2003-002157	R-METAL OXIDE;220OHM,5%,2W,AG,TP,6X16MM	4	C306	2301-000160	C-FILM,PEF;1NF,5%,50V,11.0X6.
4	R835	2003-002181	R-METAL OXIDE(S);68Kohm,5%,2W,AG,TP,3.9x	4	C610	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
4	R305	2003-002205	R-METAL OXIDE(S);330ohm,5%,2W,AG,TP,3.9X	4	C611	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
4	R306	2003-002205	R-METAL OXIDE(S);330ohm,5%,2W,AG,TP,3.9X	4	C614	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
4	R428	2004-000698	R-METAL;3.3KOHM,1%,1/4W,AA,TP,	4	C902	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
4	R302	2004-001369	R-METAL(S);1.2Kohm,1%,1/2W,AA,TP,2.4x6.4	4	C432	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
4	R308	2004-001369	R-METAL(S);1.2Kohm,1%,1/2W,AA,TP,2.4x6.4	4	C411	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
△	RR430S	2004-001390	R-METAL(S);1KOHM,2%,1/2W,AA,TP	4	C419	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM
△	RR03S	2004-005054	R-METAL(S);39KOHM,1%,1/2W,AA,TP,2.4X6.4M	4	C802	2301-000204	C-FILM,PEF;2.7NF,5%,50V,7.4X3.9
4	R819	2004-001983	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	4	C420	2301-000213	C-FILM,PEF;220NF,5%,250V,21.5X
4	R420	2004-001406	R-METAL(S);8.2KOHM,1%,1/2W,AA,	4	C809	2301-000224	C-FILM,PEF;22NF,5%,50V,7.4X3.9
4	R821	2004-002015	R-METAL FILM;RM1/2T140K-F	4	C821	2301-000224	C-FILM,PEF;22NF,5%,50V,7.4X3.9
4	R430	2004-002016	R-METALFILM;RM1/2T(S)153-F15K	4	C412	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5
4	R431	2004-002016	R-METALFILM;RM1/2T(S)153-F15K	4	C909	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm
4	R440	2004-005052	R-METAL(S);24KOHM,5%,1/2W,AA,TP,2.4X6.4M	4	C425	2301-001067	C-FILM,MPPF;82NF,5%,400V,TP,19
△	RR07S	2004-004029	R-METAL(S);10Kohm,1%,1/2W,AA,TP,2.5x6.5m	4	C807	2303-000163	C-FILM,PPF;2.2NF,5%,800V,-,T
4	R422	2008-001149	R-FUSIBLE(S);0.220HM,5%,2W,AF,TP,3.8X11M	4	C409	2301-001268	C-FILM,PPF;33nF,5%,630V,TP,20x11x17,7.5
4	R414	2008-000253	R-FUSIBLE(S);0.470HM,5%,1W,AF,	4	C305	2305-000149	C-FILM;CF922N100V104-J-40/105
△	RR01S	2008-000264	R-FUSIBLE(S);10HM,5%,1W,AF,TP,	4	C304	2305-000285	C-FILM,MPEF;220NF,5%,100V,-,5M
4	R815	2008-000284	R-FUSIBLE(S);0.10HM,10%,2W,AF,TP,3.9X10M	4	C308	2305-000411	C-FILM,MPEF;470NF,5%,50V,7.3X4
4	R827	2008-000284	R-FUSIBLE(S);0.10HM,10%,2W,AF,TP,3.9X10M	4	C907	2305-000411	C-FILM,MPEF;470NF,5%,50V,7.3X4
4	R405	2008-001018	R-FUSIBLE(S);0.470HM,10%,2W,AF	△	CR04S	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM
4	R413	2008-001018	R-FUSIBLE(S);0.470HM,10%,2W,AF	4	C103	2305-000665	C-FILM;104J, 60V,5MM TAPING
4	R829	2008-001148	R-FUSIBLE;3.3OHM,5%,1W,AG,TP,3.9X12MM	4	C105	2305-000665	C-FILM;104J, 60V,5MM TAPING
4	R828	2008-001088	R-FUSIBLE(S);1ohm,5%,2W,AG,TP,3.9x12mm	4	C201	2305-000665	C-FILM;104J, 60V,5MM TAPING

Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
4	C206	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C404	2401-002288	C-ELEC;CE04-55/10525VT471-MWRG
4	C240	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C202	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE
4	C416	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C810	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE
4	C417	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C811	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE
4	C605	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C414	2401-002597	C-AL;220uF,20%,35V,GP,TP;10x12.5,5
4	C635	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C418	2401-002597	C-AL;220uF,20%,35V,GP,TP;10x12.5,5
4	C646	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C827	2401-002619	C-AL;47uF,20%,25V,GP,TP;5x11,5
4	C651	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C833	2401-002619	C-AL;47uF,20%,25V,GP,TP;5x11,5
4	C658	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C826	2401-003034	C-AL;220UF,20%,16V,WT,TP;8X11.
4	C659	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C834	2401-003034	C-AL;220UF,20%,16V,WT,TP;8X11.
4	C812	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C808	2401-003046	C-AL;47uF,20%,50V,WT,TP;6.3x11,2,5
4	C825	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	C104	2401-003578	C-AL;1000uF,20%,10V,GP,TP;8x20mm,5
4	C831	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	CW901	2503-000156	C-NETWORK;100pF,4,20,8,50V
4	C836	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L301	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	C837	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L701	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	C843	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L702	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	C844	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L907	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	C914	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L906	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	C916	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L103	2701-000115	INDUCTOR-AXIAL;10UH,10%,2.8X7M
4	C922	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L101	2701-000115	INDUCTOR-AXIAL;10UH,10%,2.8X7M
4	C923	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L102	2701-000159	INDUCTORAXIAL;22uH,10%,4.2x9.8mm
4	C925	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L602	2701-000169	INDUCTORAXIAL;3.9uH,10%,2.5x3.4mm
4	C101	2305-000665	C-FILM;104J, 60V,5MM TAPING	4	L603	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C619	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L604	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C620	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L605	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C621	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L606	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C622	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L607	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C625	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L608	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C626	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L703	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C628	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L704	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C640	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L705	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C641	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L706	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM
4	C643	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L902	2701-000184	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM
4	C912	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	4	L908	2701-000191	INDUCTOR-AXIAL;47UH,10%,2.5X3.4MM
4	C644	2401-000192	C-ELEC;CE04-40/8550VT102-MW1SG	4	L909	2701-000191	INDUCTOR-AXIAL;47UH,10%,2.5X3.4MM
4	C648	2401-000192	C-ELEC;CE04-40/8550VT102-MW1SG	4	L201	2701-000200	INDUCTOR-AXIAL;5.6uH,10%,4.2x9.8mm
4	C816	2401-000262	C-AL;100UF,20%,160V,GP,16X25MM,5MM,	4	L811	2701-001030	INDUCTOR-AXIAL;43uH,10%,14x4.5mm
4	C801	2401-000287	C-AL;100UF,20%,16V,WT,6X11MM,5	4	L403	2701-001040	COIL INDUCTOR; COIL,10uH,AL05
4	C634	2401-000302	C-AL;100UF,20%,25V,GP,6X11MM,5	4	L601	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm
4	C302	2401-000365	C-AL;100UF,20%,50V,WT,TP;10x12.5mm,	4	L609	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm
4	C307	2401-000365	C-AL;100UF,20%,50V,WT,TP;10x12.5mm,	4	L901	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm
4	C106	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	4	L903	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm
4	C904	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	4	L904	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm
△	CRO2S	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	4	X901	2801-003728	CRYSTAL-UNIT;6MHz,30ppm,28AAM,20pf,40oh
4	C413	2401-000493	C-AL;10UF,20%,50V,WT,5X11MM,5M	4	X601	2801-003903	CRYSTAL-UNIT18.432MHz,25ppm,28AAM,12
4	C832	2401-000493	C-AL;10UF,20%,50V,WT,5X11MM,5M	4	L203	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-
4	C918	2401-000493	C-AL;10UF,20%,50V,WT,5X11MM,5M	4	L407	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-
4	C604	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	4	L612	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-
4	C612	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	4	L613	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-
4	C613	2401-000611	C-AL;1UF,20%,50V,WT,5X11MM,5MM	4	L804	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-
4	C841	2401-000611	C-AL;1UF,20%,50V,WT,5X11MM,5MM	4	R434	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-
4	C818	2401-000722	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	4	L402	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB
4	C835	2401-000722	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	4	L410	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB
4	C650	2401-001192	C-AL;33UF,20%,50V,GP,6X11MM,5MM,TP	4	L807	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB
4	C660	2401-000962	C-AL;22uF,20%,50V,GP,TP;5x11,5	4	L404	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	C602	2401-001026	C-AL;3.3UF,20%,50V,GP,5X11MM,5	4	L610	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	C655	2401-001026	C-AL;3.3UF,20%,50V,GP,5X11MM,5	4	L614	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	C402	2401-001397	C-AL;470UF,20%,25V,GP,10X16MM,	4	L615	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	C824	2401-001513	C-AL;47UF,20%,16V,WT,5X11MM,5M	4	L805	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	C838	2401-001513	C-AL;47UF,20%,16V,WT,5X11MM,5M	4	L809	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	C840	2401-001513	C-AL;47UF,20%,16V,WT,5X11MM,5M	4	L801	3301-001223	CORE-FERRITE BEAD;AB,-,3.5X5X0.8MM,-,TP
4	C422	2401-001527	C-AL;47UF,20%,250V,HR,13X25MM,	4	L802	3301-001223	CORE-FERRITE BEAD;AB,-,3.5X5X0.8MM,-,TP
4	C913	2401-001840	C-AL;100UF,20%,16V,GP,TP;6.3X1	4	L803	3301-001223	CORE-FERRITE BEAD;AB,-,3.5X5X0.8MM,-,TP
4	C915	2401-001840	C-AL;100UF,20%,16V,GP,TP;6.3X1	4	L806	3301-001223	CORE-FERRITE BEAD;AB,-,3.5X5X0.8MM,-,TP
4	C917	2401-001840	C-AL;100UF,20%,16V,GP,TP;6.3X1	△	FA801S	3601-000120	FUSE-FERRULE;125V,2.5A,FA,GLASS,2.4x7.5m
4	C102	2401-001840	C-AL;100UF,20%,16V,GP,TP;6.3X1	△	FA802S	3601-001086	FUSE-AXIAL LEAD;125V,5A,FAST-ACTING,GLAS
4	C823	2401-002144	C-AL;47uF,20%,16V,GP,TP;5x11,5	△	FA803S	3601-001228	FUSE-AXIAL LEAD;125V,10A,FAST-ACTING,EPO
4	C653	2401-002216	C-AL;2200UF,20%,35V,-,16X25,7.	4	F801A	3602-000114	FUSE-HOLDER;-,30MOHM
4	C207	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	F801B	3602-000114	FUSE-HOLDER;-,30MOHM
4	C239	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J908	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
4	C603	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	△	DR02S	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
4	C630	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J102	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
4	C631	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J103	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
4	C645	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J104	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
4	C652	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J106	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
4	C920	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J107	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A
△	CRO3S	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	4	J108	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M/A





Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
4	GT804	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	R701	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,
4	GT805	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	R702	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,
4	GT806	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	C701	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,
4	GT102	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	C702	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,
4	L/LINE	AA68-01544A	LABEL,LINE,ALL MDL COMMON	3	C707	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P3.
4	C927	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C708	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P3.
4	R912	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP	3	L701	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	R833	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP	3	L702	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.
4	R415	2004-000501	R-METAL(S);2.2KOHM,1%,1/2W,AA,TP,2.4X6.4	3	L707	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.
4	R423	2004-000501	R-METAL(S);2.2KOHM,1%,1/2W,AA,TP,2.4X6.4	3	J701	3812-000219	JUMPER-WIRE-SQ,COPPER;TA0.6SN/52M/M(A
4	R824	2001-000319	R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X3.2M	3	O1VER	AA41-00594B	PCB-SIDE A/V(M9);TXM2797HF,FR-1,1L,B,1.
4	D406	0404-001056	DIODE-SCHOTTKY;RK16,60V,1.5A,DO-204AC,TP	3	L705	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm
△	NT802S	1404-001045	THERMISTOR NTC;4.7OHM,15%,2900K,35.0MW,T	3	L706	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm
△	CY801S	2201-002002	C-CERAMIC,DISC;4700PF,20%,400V	3	L708	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
3	MD201	AA95-03065A	ASSY SUB-PCB NTS C F-BOX;DP, AA95-02001J,	3	L703	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
3	R/V-IN	AA39-20536G	LEAD CONNECTOR ASSY.;1P,F,F,60MM,1617#22	3	CORE	3301-001201	CORE-FERRITE;AE,230.5x10.25x36mm,1500,28
3	Q404	0505-000156	FET-SILICON;IRF620,N,200V,5A,0.8ohm,50W,	3	JH701	3722-000143	JACKHONE;1P,3.4MM,-,MBAG
△	IC402	1203-000243	IC-POSI.FIXEDREG.;7812,TO-220,	3	DZ703	0403-000708	DIODE-ZENER;MTZJ13B,13V,12.55-13.21V,500
3	IC202	1203-001944	IC-POSI.FIXEDREG.78RM33,TO-220,3P,PLAST	3	DZ702	0403-000708	DIODE-ZENER;MTZJ13B,13V,12.55-13.21V,500
3	IC903	1203-001944	IC-POSI.FIXEDREG.78RM33,TO-220,3P,PLAST	2	DRES1	AA65-30104C	CLAMP-WIRE-NYLON 66,V2,NTR,W1 Z4,ALL MOD
△	GT804S	AA39-20010B	LEAD-CONNECTOR,ASSY.;YFH800-01,500MM,1P	2	DRES2	AA65-30110A	CLAMP-WIRE-NYLON 66,V2,BLK,PAL TVI,ALL M
3	C408	2301-001143	C-FILM,PPF;56nF,5%,400V,TP,20x10x17,7.5	2	A/CRT	AA96-01036A	ASSY MISC P-CRT;TXM3298HF,K55A
3	R/V-IN	0203-001203	TAPE-DOUBLE FACE;#4016,T1.6,W10,L1000,NT	3	D501	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	HIC401	AA13-00094A	IC HYBRID;-DDRIO01A,SIP;5P,-,TP	3	DF01	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	C623	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P3.	3	DF02	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	L409	3812-000219	JUMPER-WIRE-SQ,COPPER;TA0.6SN/52M/M(A	3	DF05	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	GT301	AA60-40012D	PIN-GT,ASSY;4PT1.6,6-12.5-14MM,NYLON66	3	DF06	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
3	C415	2301-001224	C-FILM,PPF;3.3nF,5%,800V,TP,20x6.5x13.5,	3	D502	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
2	A/DYMC	AA96-00974A	ASSY MISC P-DYNAMIC FOCUS;TXM3297,2797,K	3	D509	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	LH01	AA26-90002C	TRANS-DUMMY;-3.5MH,EER2834,13	3	D510	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	LH02	AA27-40003L	COIL-HORIZ,WIDTH;-1.0mH,DR14x20,2UEW0.4	3	D511	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	WIRE3	AA39-20061C	LEAD CONNECTOR-ASSY.;3P,YFH800-03,S,200,	3	D512	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	JH01	3812-000219	JUMPER-WIRE-SQ,COPPER;TA0.6SN/52M/M(A	3	D513	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	EY01	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	D514	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	EY02	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DF07	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	EY03	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DF08	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
3	EY04	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZF03	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
3	EY05	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZ504	0403-000698	DIODE-ZENER;TZP12A,12V,11.4-12.6V,1W,DO-
3	EY06	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZ501	0403-000708	DIODE-ZENER;MTZJ13B,13V,12.55-13.21V,500
3	EY07	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZ502	0403-000708	DIODE-ZENER;MTZJ13B,13V,12.55-13.21V,500
3	EY08	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZ510	0403-000734	DIODE-ZENER;TZP15B,15V,14.7-16.5V,1W,DO-
3	EY09	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZF01	0403-001039	DIODE ZENER;MA2560,56V,52-60V,1W,DO-41,T
3	EY11	AA60-40011A	EYELET;-ID2.0,OD2.8,-,-,BST	3	DZF02	0403-001039	DIODE ZENER;MA2560,56V,52-60V,1W,DO-41,T
3	GTH01	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	Q501	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM
3	GTH02	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	Q502	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM
3	GTH03	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	3	Q503	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM
3	RH28	2008-001113	R-FUSIBLE(S);0.22ohm,10%,2W,AG,TP,3.9x12	3	Q504	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM
3	OZVER	AA41-00152C	PCB-DOUBLE FOCUS;CW29A6VN8X/XEF,FR-1,1L,	3	QF04	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM
2	A/CTRL	AA96-00969A	ASSY MISC P:CONTROL TXM3297,2797,K55A	3	QF02	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM
3	LD02	0601-000262	LED;ROUND,RED,5mm,700nm	3	QF03	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM
3	SW01	3404-000176	SWITCH-TACT;12V,50MA,90-150GF,	3	QF05	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM
3	SW02	3404-000176	SWITCH-TACT;12V,50MA,90-150GF,	3	RF17	2001-000019	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4m
3	SW03	3404-000176	SWITCH-TACT;12V,50MA,90-150GF,	3	RF60	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP
3	SW04	3404-000176	SWITCH-TACT;12V,50MA,90-150GF,	3	RF30	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP
3	SW05	3404-000176	SWITCH-TACT;12V,50MA,90-150GF,	3	RF31	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP
3	SW06	3404-000176	SWITCH-TACT;12V,50MA,90-150GF,	3	RF501	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP
3	CN01Y	AA39-00326A	LEAD CONNECTOR ASSY;K55A/CT-29Z7HR,UL100	3	RF502	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP
3	RM01	AA32-00012A	MODULE REMOCON;ORC-50HF2,38KHZ,940NM,MES	3	RF27	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP
3	DC01	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING	3	RF22	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP
3	DC02	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING	3	RF25	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP
3	DZC01	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	3	RF28	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP
3	RC06	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1	3	RF21	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m
3	RC04	2001-000009	R-CARBON;2KOHM,5%,1/8W,AA,TP,	3	RF30	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP
3	RC05	2001-000020	R-CARBON(S);220HM,5%,1/2W,AA,T	3	RF62	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP
3	RC01	2001-000287	R-CARBON;100OHM,5%,1/8W,AA,TP,	3	RF63	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP
3	RC02	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1	3	RF22	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,
3	RC03	2001-000878	R-CARBON;6.2KOHM,5%,1/8W,AA,TP	3	RF20	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,
3	CC01	2401-002291	C-ELECTROLYTIC;CE04WTAPG16V47M	3	RF40	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	LC01	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	3	RF54	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	JC02	3812-000219	JUMPER-WIRE-SQ,COPPER;TA0.6SN/52M/M(A	3	RF55	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	O0VER	AA41-10856B	PCB-M9 CONTROL;CT-29M8HR,FR-1,1L,B,1.6T,	3	RF56	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm
2	A/SIDE	AA96-00971A	ASSY MISC A,V SIDE, TXM3297,2797,SEA,K55A	3	RF07	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP
3	JA701	3722-001031	JACK-RCA;3P,3.6MM,#18,AU	3	RF31	2001-000539	R-CARBON;24KOHM,5%,1/8W,AA,TP,
3	JS701	3722-001163	JACK-VHS;4P,12mm,AU,BLK,N	3	RF23	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,
3	CN704	AA39-00070B	LEAD CONNECTOR-ASSY.;4P,YBNH250-04,35184	3	RF19	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,
3	CN701	AA39-20071G	LEAD CONNECTOR ASSY;K55A/WT-32Z7HR,UL100	3	RF23	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP
3	CN703	AA39-20069A	LEAD-CONNECTOR,ASSY;-YBNH025-	3	RF08	2001-000958	R-CARBON;750ohm,5%,1/8W,AA,TP,1.8x3.2mm



Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
3	R520	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	3	LF02	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-,3.5x5,TP,-
3	R566	2001-001040	R-CARBON(S);0.680HM,5%,1/2W,AA	3	LF04	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-,3.5x5,TP,-
3	R504	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AA	3	LF06	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-,3.5x5,TP,-
3	R505	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AB	3	LF08	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-,3.5x5,TP,-
3	RF33	2001-001053	R-CARBON(S);1.50HM,5%,1/2W,AA	3	LF09	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-,3.5x5,TP,-
3	R565	2001-001071	R-CARBON(S);12KOHM,5%,1/2W,AA	3	J501	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF29	2001-001071	R-CARBON(S);12KOHM,5%,1/2W,AA	3	J502	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF18	2001-001079	R-CARBON(S);150HM,5%,1/2W,AB,T	3	J503	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF19	2001-001079	R-CARBON(S);150HM,5%,1/2W,AB,T	3	J504	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R503	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	3	J505	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R518	2001-001095	R-CARBON(S);2.2MOHM,5%,1/2W,AA,TP,2.4X6.4	3	J506	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF34	2001-001100	R-CARBON(S);2.70HM,5%,1/2W,AA	3	J507	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R561	2001-001126	R-CARBON(S);300OHM,5%,1/2W,AB,TP,2.4X6.4	3	J508	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R516	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,T	3	J510	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF26	2001-001179	R-CARBON(S);68KOHM,5%,1/2W,AA	3	J511	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF27	2001-001179	R-CARBON(S);68KOHM,5%,1/2W,AA	3	J512	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R506	2004-005055	R-METAL(S);86KOHM,1%,1/2W,AA,TP,2.4X6.4M	3	J514	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R510	2004-005055	R-METAL(S);86KOHM,1%,1/2W,AA,TP,2.4X6.4M	3	J515	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R511	2004-005055	R-METAL(S);86KOHM,1%,1/2W,AA,TP,2.4X6.4M	3	J519	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R525	2002-001006	R-COMPOSITION;4.7KOhm,5%,1/2W,AA,TP,3.7X	3	J520	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R513	2002-001017	R-COMPOSITION;1K,10%,1/2W,AA,TP,3.7x9.0m	3	J521	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R514	2002-001017	R-COMPOSITION;1K,10%,1/2W,AA,TP,3.7x9.0m	3	J525	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R515	2002-001017	R-COMPOSITION;1K,10%,1/2W,AA,TP,3.7x9.0m	3	JF01	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	R528	2003-000458	R-METALOXIDE(S);100OHM,5%,2W,A	3	JF02	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF36	2003-000652	R-METAL OXIDE(S);330ohm,5%,2W,AF,TP,4x12	3	JF04	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF32	2003-000746	R-METALOXIDE(S);560HM,5%,2W,AD	3	R517	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF35	2003-000746	R-METALOXIDE(S);560HM,5%,2W,AD	3	R521	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF24	2003-001018	R-METALOXIDE;220OHM,2W	3	R526	3812-000219	JUMPER-WIRE-SO,COPPER;TAO.6SN/52M/M(A
3	RF14	2003-002276	R-METAL OXIDE(S);2.2KOHM,5%,2W,AG,TP,12X	3	O1VER	AA41-00578B	PCB-CRT;CT-29277HR,FR-1,1L,B,1.6T,330X245
3	RF15	2003-002276	R-METAL OXIDE(S);2.2KOHM,5%,2W,AG,TP,12X	3	EL100	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	RF16	2003-002276	R-METAL OXIDE(S);2.2KOHM,5%,2W,AG,TP,12X	3	EL80	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	R512	2004-001369	R-METAL(S);1.2Kohm,1%,1/2W,AA,TP,2.4x6.4	3	EL81	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	R509	2008-000205	R-FUSIBLE(S);100HM,5%,1/2W,AF	3	EL82	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	RF13	2008-001014	R-FUSIBLE(S);22ohm,5%,1W,AF,TP,3.2x10mm	3	EL83	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	R541	2008-001053	R-FUSIBLE;220HM,5%,1/2W,AF,TP	3	EL84	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	R529	2008-001129	R-FUSIBLE(S);1.50HM,5%,1/2W,AF,TP,2.5	3	EL85	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	CF03	2201-000192	C-CERAMIC,DISC;10PF,0.25PF,500V,NPO,-,5M	3	EL86	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	CF06	2201-000192	C-CERAMIC,DISC;10PF,0.25PF,500V,NPO,-,5M	3	EL87	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C501	2201-000247	C-CERAMIC,DISC;15PF,5%,50V,CH	3	EL88	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C510	2201-000291	C-CERAMIC,DISC;1NF,10%,500V,Y5	3	EL89	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	CF02	2201-000292	C-CERAMIC,DISC;1NF,10%,50V,Y5P	3	EL92	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	CF04	2201-000516	C-CERAMIC,DISC;4.7NF,+100-0%,5	3	EL94	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C514	2201-000599	C-CERAMIC,DISC;560PF,10%,500V	3	EL95	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C515	2201-000599	C-CERAMIC,DISC;560PF,10%,500V	3	EL96	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C513	2201-000600	C-CERAMIC,DISC;560PF,10%,50V,Y5P,4X3.5MM	3	EL97	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	CF07	2201-000604	C-CERAMIC,DISC;56PF,+100-0%,50	3	EL98	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C503	2201-000662	C-CERAMIC,DISC;0.007nF,0.25pF,50V,NPO,TP	3	EL99	AA60-40011B	EYELET;-ID2.2,0D3.2,-,-,BSP
3	C502	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3	3	GT501	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO
3	C536	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	3	GT502	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO
3	C537	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	3	GT503	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO
3	C538	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	3	GT504	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO
3	C539	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP	3	LF11	2702-001092	INDUCTOR-RADIAL;2.2uH,10%,6x4mm
3	C504	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	3	R564	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m
3	C505	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	3	C522	2201-002117	C-CERAMIC,DISC;4.7nF,20%,3kV,Y5U,TP,16x6
3	C506	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	3	C523	2301-001192	C-FILM,MPPF;820nF,5%,400V,TP,29x18.5x25
3	C507	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	△	V999S	3704-001032	SOCKET-CRT;8P;29PI,35.5PI,AU30U
3	C509	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	3	CNC01	3711-003974	CONNECTOR-HEADER;BOX,12P,1R,2.5mm,STRAIG
3	CF05	2301-000261	C-FILM,PEF;4.7NF,5%,100V,10.5X	3	SC01	3722-001503	JACK-PIN,1P,1PI,NL,RED,SCR-JACK
3	C508	2301-001211	C-FILM,PPF;22nF,5%,400V,TP,20x7x14,7.5mm	3	CNC01A	AA39-00088A	LEAD CONNECTOR-ASSY;HERCULES,UL1007/1185
3	C511	2301-001211	C-FILM,PPF;22nF,5%,400V,TP,20x7x14,7.5mm	△	GT503S	AA39-20010B	LEAD-CONNECTOR,ASSY;-YFH800-01,500MM,1P
3	C512	2301-001211	C-FILM,PPF;22nF,5%,400V,TP,20x7x14,7.5mm	3	CNC02A	AA39-20068B	LEAD CONNECTOR-ASSY;-8PYBNH025-08,67096
3	C526	2301-001211	C-FILM,PPF;22nF,5%,400V,TP,20x7x14,7.5mm	3	QF10	AA96-00243L	ASSY H/S;-CRT,AA62-00045A,2SC2344,HERC
3	C533	2305-000665	C-FILM;104J, 60V,5MM TAPING	4		0205-000129	GREASE-SILICON;SC102,JAPAN
3	CF75	2401-000045	C-AL;10uF,20%,160V,GP,TP,10x16,5	4		0502-000153	TR-POWER;2SC2344-D,NPN,180V,16
3	CF01	2401-000360	C-AL;100UF,20%,50V,GP,8X11MM,5	4		6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,2PC(YEL),SWR
3	C520	2401-000703	C-ELEC;CE04-40/8525VT222-MWSD	4		AA62-00045A	HEAT SINK-PS;-T1.0,-,-,DREAM,-,-,-,-
3	C528	2401-000832	C-AL;220UF,20%,25V,GP,8X11MM,5	3	QF09	AA96-00243M	ASSY H/S;-AMP,AA62-00045A,2SA1011,HERC
3	C534	2401-000832	C-AL;220UF,20%,25V,GP,8X11MM,5	4		0205-000129	GREASE-SILICON;SC102,JAPAN
3	CF71	2401-000832	C-AL;220UF,20%,25V,GP,8X11MM,5	4		0502-000131	TR-POWER;2SA1011-D,PNP,-180V,-
3	C535	2401-000914	C-AL;22UF,20%,16V,GP,5X11,5,TP	4		6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,2PC(YEL),SWR
3	CF73	2401-000927	C-AL;22UF,20%,250V,GP,13X20MM	4		AA62-00045A	HEAT SINK-PS;-T1.0,-,-,DREAM,-,-,-,-
3	C532	2401-001563	C-AL;47uF,20%,400V,GP,TP,16x25mm,7.5	3	IC501	AA96-50311L	ASSY H/S;-AMP,AA62-30175D ,_TDA6111Q,HE
3	CF74	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	3	IC502	AA96-50311L	ASSY H/S;-AMP,AA62-30175D ,_TDA6111Q,HE
3	C531	2401-002264	C-AL;10UF,20%,350V,GP,TP,10X20	3	IC503	AA96-50311L	ASSY H/S;-AMP,AA62-30175D ,_TDA6111Q,HE
3	LF03	2701-000112	INDUCTOR-AXIAL;100UH,10%,2.8X7	4		1201-001131	IC-VIDEO AMP;6111,SIP,9P,-,SINGLE,-,PLAS
3	L502	2701-000178	INDUCTOR-AXIAL;33UH,10%,2.8X7MM	4		6003-000334	SCREW-TAPTITE;RH,+2S,M3,L6,2P
3	LF01	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-,3.5x5,TP,-	4		AA62-30175D	HEATSINK-PS;-SECC,T1.0,-,-,33X15X30FT-2

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
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3	IC504	BH99-00038E	ASSY HEAT/SINK;TDA2030,AMP,HERCULES,BH62
4		0205-001027	OIL-SILICON;G746
4		1201-000010	IC-OP AMP;2030,PENTAWATT,5P,-,SINGLE,-,C
4		BH61-00004A	SPRING TR;SUS304,W1/2H,TO.4,W3.5
4		BH62-00041A	HEAT SINK-TR;
3	FV1	3711-002642	POST-HEADER;67094-003(AUTO)
3	FN1	3711-002643	POST-HEADER;YW025-04(AUTO)

### ASSY COVER REAR

1	A/REAR	AA90-04253A	ASSY COVER REAR;TXM3281HFX/XAA,K55A
2	B/C	AA64-02565A	CABINET-BACK;34M9,HIPS,VO,BLK
2	INLAYB	AA64-02569A	INLAY-BACK;M9,PS SHEET,TO.3,K55A
2	AC+BC	AA65-30008A	CLAMP-CORD;-PE,HB,BLK,-,-
2	CB+RCA	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR
2	CB+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR
2	FBT	AA65-30018A	CLAMP-WIRE;-NYLON6.6,-,-,DATL
2	LCN	0201-001059	ADHESIVE-SILICON;B#9590,CARTRIGE

### ASSY COVER FRONT

1	A/CFRN	AA90-04225A	ASSY COVER FRONT;K55A,34M9,HIPS,VO,-,BLK
2	BKC+CF	6002-000522	SCREW-TAPPING;TH,+2,M4,L15,ZP
2	AV+CF	6003-001019	SCREW-TAPTITE;RH,+B,M4,L12,ZPC(BLK),SWR
2	PCB+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR
2	SPK+CF	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+M4,L12,ZPC(YEL)
2	CRT+CF	AA60-10050V	SCREW-ASSY;WC,HH,+M6,L30,SWRCH18A,ZPC(S)
2	S/CRT	AA61-01065A	SUPPORT-CRT;29M9,HIPS,HB,NTR
2	BRACK	AA61-10053A	BRACKET-CRATER;-7277,STS304,TO.5,-,-,-
2	L/QMS	AA68-02391A	LABEL-QMS;ART-PAPER(90)G,110x24mm
2	R/CAP	AA73-00005B	RUBBER-CAP;FLAT,PRJ,SILICONE RUBBER,WHIT
2	A/HSPK	AA91-00507B	ASSY HOLDER SPK;DP;-8ohm/15W,-,29K1 CKD
2	A/CF	AA64-03172A	CABINET-FRONT;34M9,HIPS,VO,BLK,DG703P
3	KC+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR
3	WIN+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR
3	H/PCB	AA61-00711B	HOLDER-PCB;29U1,U2,HIPS FV2,BK502(HB-PRO
3	SPRING	AA61-60003T	SPRING-CS;-,-,SUS304,0.5,OD7,H
3	KC	AA64-02566A	KNOB-CONTROL;M9,ABS,HB,G3676,SVM3012
3	KP	AA64-02567A	KNOB-POWER;M9,ABS,HB,G3676,SVM3012
3	WR	AA64-02568A	WINDOW-RMC,LED;M9,PC,CLR
2	IN/AV	AA64-01506K	INLAY-AV;34M9,PVC-SHEET,TO.3,BLK,K55A BL
2	BADGE	AA64-70124C	BADGE-BRAND;AL,R2500,SILVER,L=70,SAMSUNG
2	CWFCL	AA65-30105A	CLAMP-WIRE;NYLON 66N,VO,NTR,15MM
2	RC+CF	0203-001290	TAPE-OPP MASKING;ANT 100C,TO.073,W30,L50
2	CWFCR	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M
2	CWFCF	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M
2	SPK+DC	AA65-30018A	CLAMP-WIRE;-NYLON6.6,-,-,DATL
2	C/F-BO	AA65-30018A	CLAMP-WIRE;-NYLON6.6,-,-,DATL
2	H/PCB	AA61-00552B	HOLDER-PCB;29K3,HIPS,-,-,-,BLK,VO
2	CBL+HP	6003-001023	SCREW-TAPTITERWH,+B,M3,L10,ZPC(YEL)
2	PCB+HP	6003-001023	SCREW-TAPTITERWH,+B,M3,L10,ZPC(YEL)

### ASSY BOX

1	A/BOX	AA92-05165A	ASSY BOX;TXM3297HFX/XAA
2	L/BOX	AA68-01542A	LABEL;(UNIBOX),PAPER WHT ALLMD
2	PCK	AA69-01599A	PACKING CASE;34M9(SAMEX),CB D-5 AB,A1,10

### ASSY P/MATERIAL

1	A/PACK	AA92-05166A	ASSY P/MATERIAL;34M9
2	BXTAPE	0203-001295	TAPE-OPP MASKING;1242,TO.06,W100,L91.4M,
2	STAPLE	AA60-40006A	PIN-STAPLE;-,-,H18,33X17.8X2
2	PE-BAG	AA69-01210A	BAG;SHEET,32-36,W65,L63,FOAM,OEM.
2	C/SET	AA69-01570A	CUSHION-SET;34M9,PS FOAMED,C=0.02

### ASSY LABEL

1	A/LABE	AA92-04058A	ASSY LABEL;TXM3297HFX/XAA,TXM3297HF,U.S.
2	L/DHHS	AA68-01065J	LABEL-D.H.H.S;TSL3293HFX/XAA,A/P120(G),S
2	L/RAT	AA68-02445A	LABEL-RATING;ART-PAPER;60X90MM,V17A,77HN
2	L/CRT	AA68-01557A	LABEL ENERGY;STAR,STATIC FREE FILM

### ASSY CPT

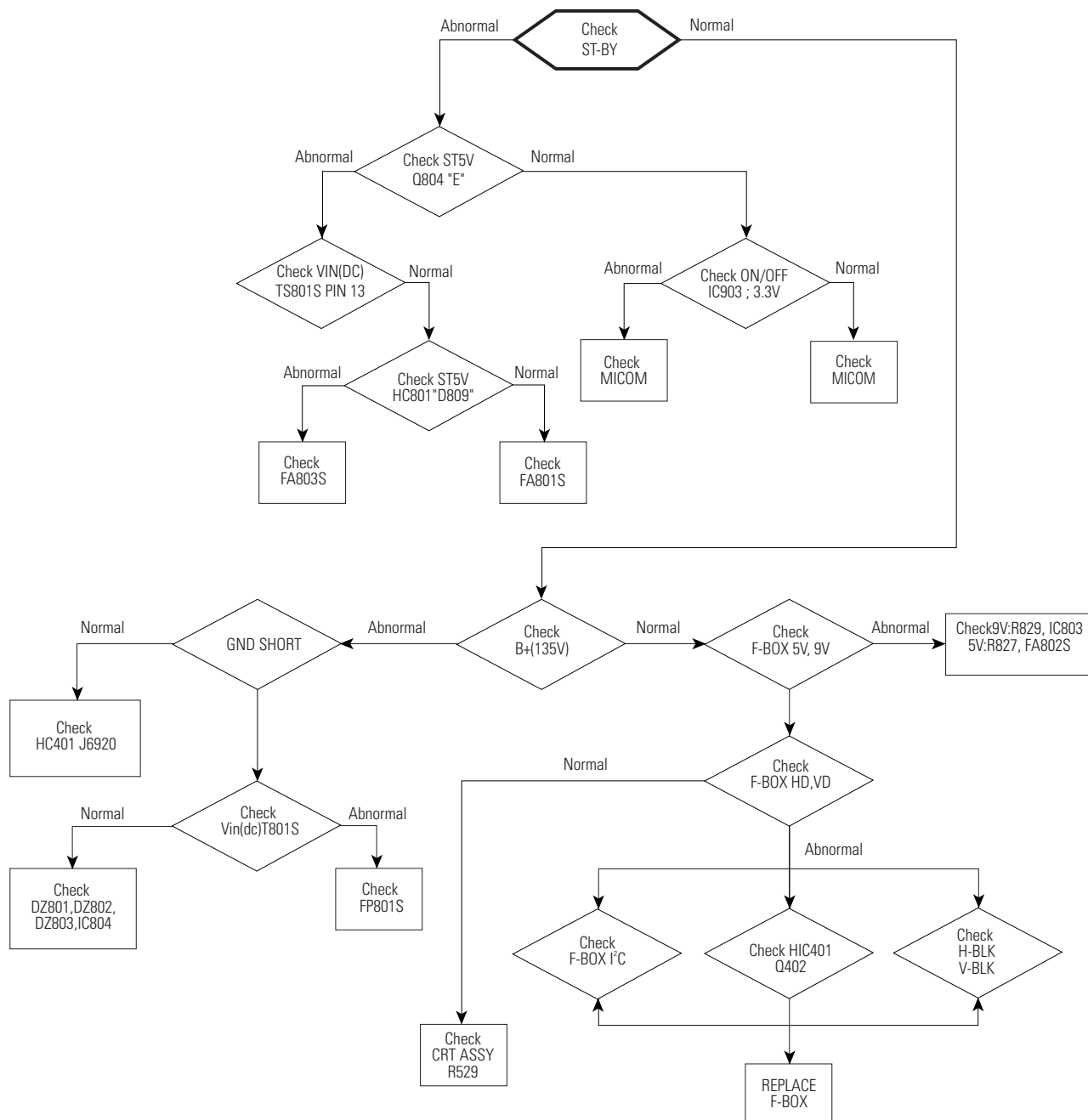
1	A/CPT	AA91-03995U	ASSY CPT;A80QEA891X,34,+380MG,ITC
△ 2	CRT	AA03-00357A	CRT COLOR;A80QEA891X002,+380MG,0.35MH,9.
2	D-COIL	AA27-00275A	COIL DEGAUSSING;SDI 34,14MH,10%,60TS,1
2	A/TBC	AA98-70011F	ASSY TBC WIRE(P);-34inch,NTSC,2P-WH,KS4
2	S/CRT	AA63-60004L	SPACER-GUM,CRT;-NTR RUBBER,-,-,-,BLK,T3
2	TILT/C	AA63-10002B	BAND-TIE;-NYLON66V2,-,-,L140,NTR,-,-
2	TILT	AA27-00284A	COIL DEGAUSSING;CPTTV,48MH,10%,270TS,-,
2	H/D-CO	AA61-01258A	HOLDER-D,COIL;NYLON,34M9,T3.0

### ASSY ACCESSORY

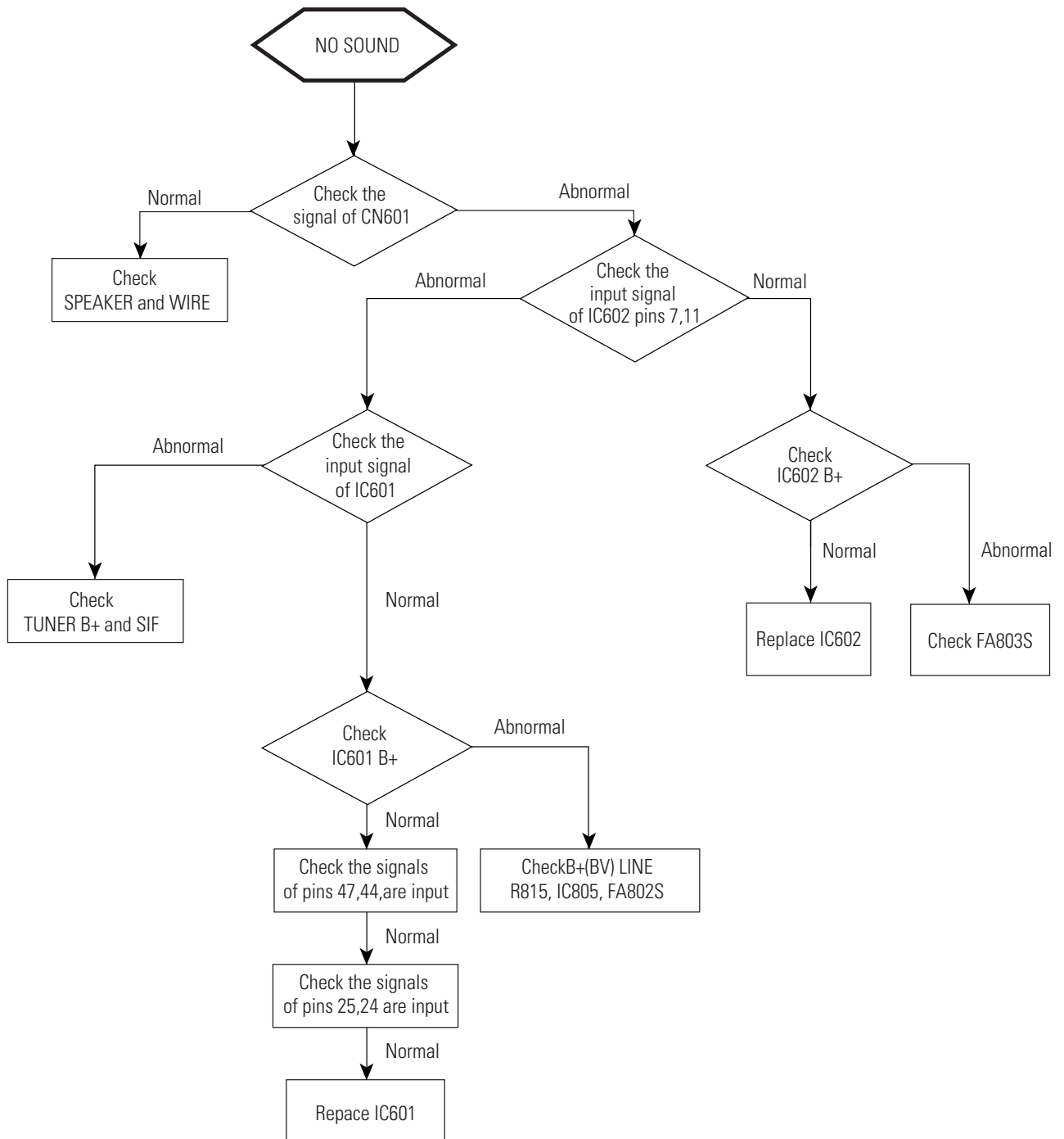
1	A/ACCE	AA92-04061A	ASSY ACCESSORY;TXM3297HFX/XAA,TXM3297HF,
2	BATT	4301-000120	BATTERY-MN;1.5V,-,AA
2	RMT	AA59-00251A	REMOCON;TM58,HERCULES,41,SS,G6671B,MBR,
2	W/CARD	AA68-01433A	CARD WARRANTY;TV/TVCR,ALL,W/P100(G),B5,
2	B/WARR	AA68-01561A	CARD WARRANTY;BLOCK,STATEMENT ONLY,SEA/S
2	C/REG	AA68-01969A	CARD;REGISTRATION PRODUCT,W/P120(G),SEA
2	I/B	AA68-02551A	MANUAL-USERS;W/P100,B5,ENG,SEA,K55A
2	BAG-PE	AA69-01195A	BAG PE;CL29A6W8X,HDPET0.012,93/4X151
2	AC-TAP	0203-001279	TAPE-OPP MASKING;#232,TO.14,W15,L50000,Y
2	C/RCA	AA39-40001B	PATCH-CORD;3P-3P1500MMRED,WHT,YEL,500

## 7. Troubleshooting

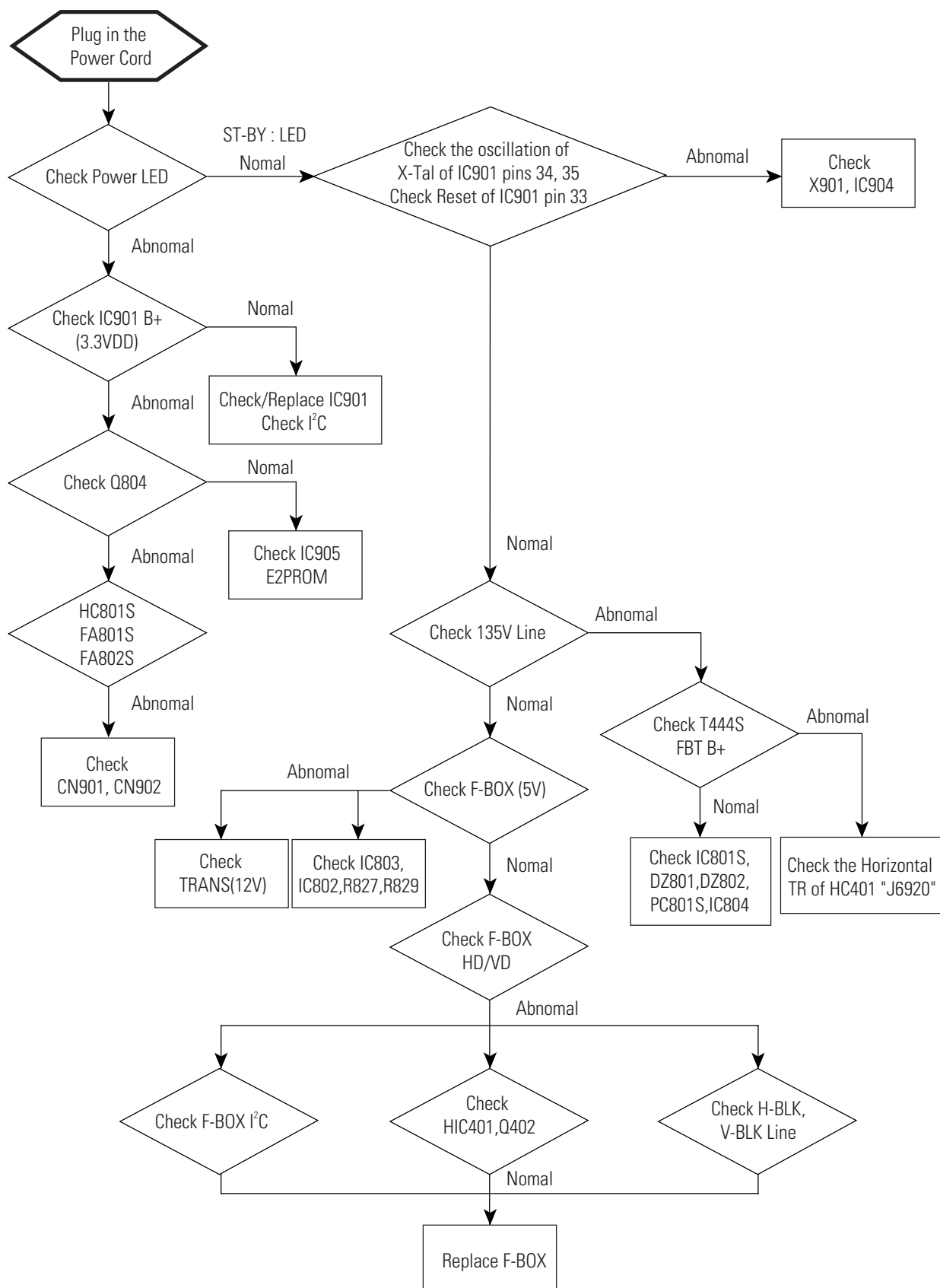
### 7-1 No Raster



## 7-2 No Sound

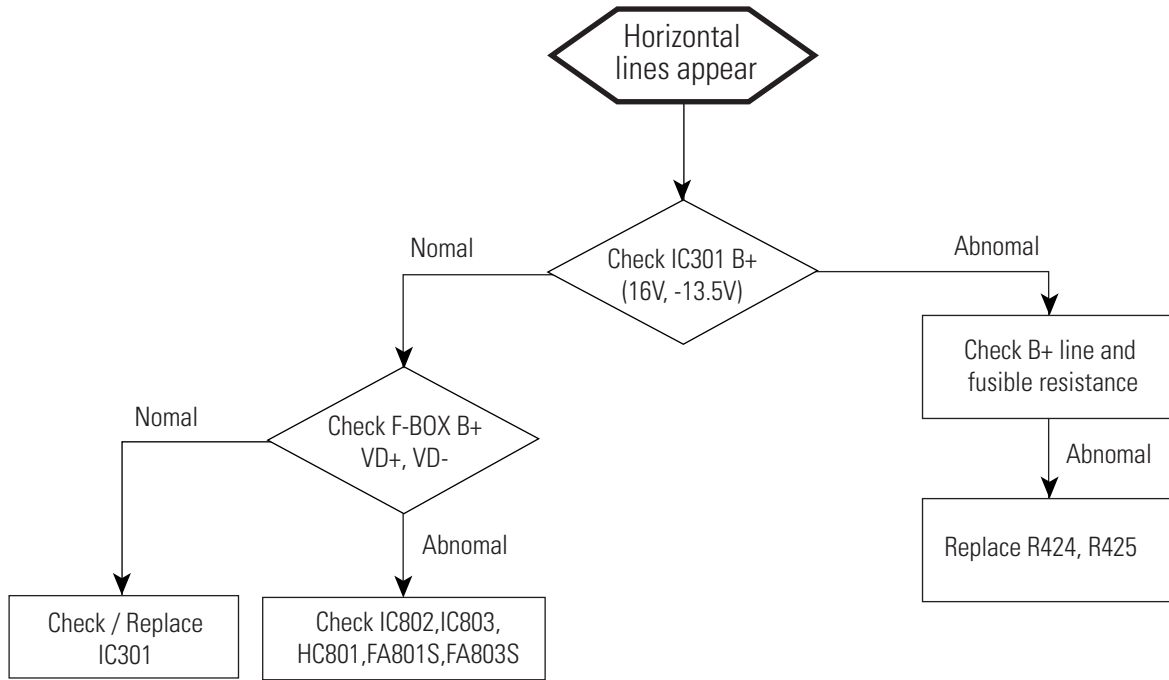


## 7-3 No Power



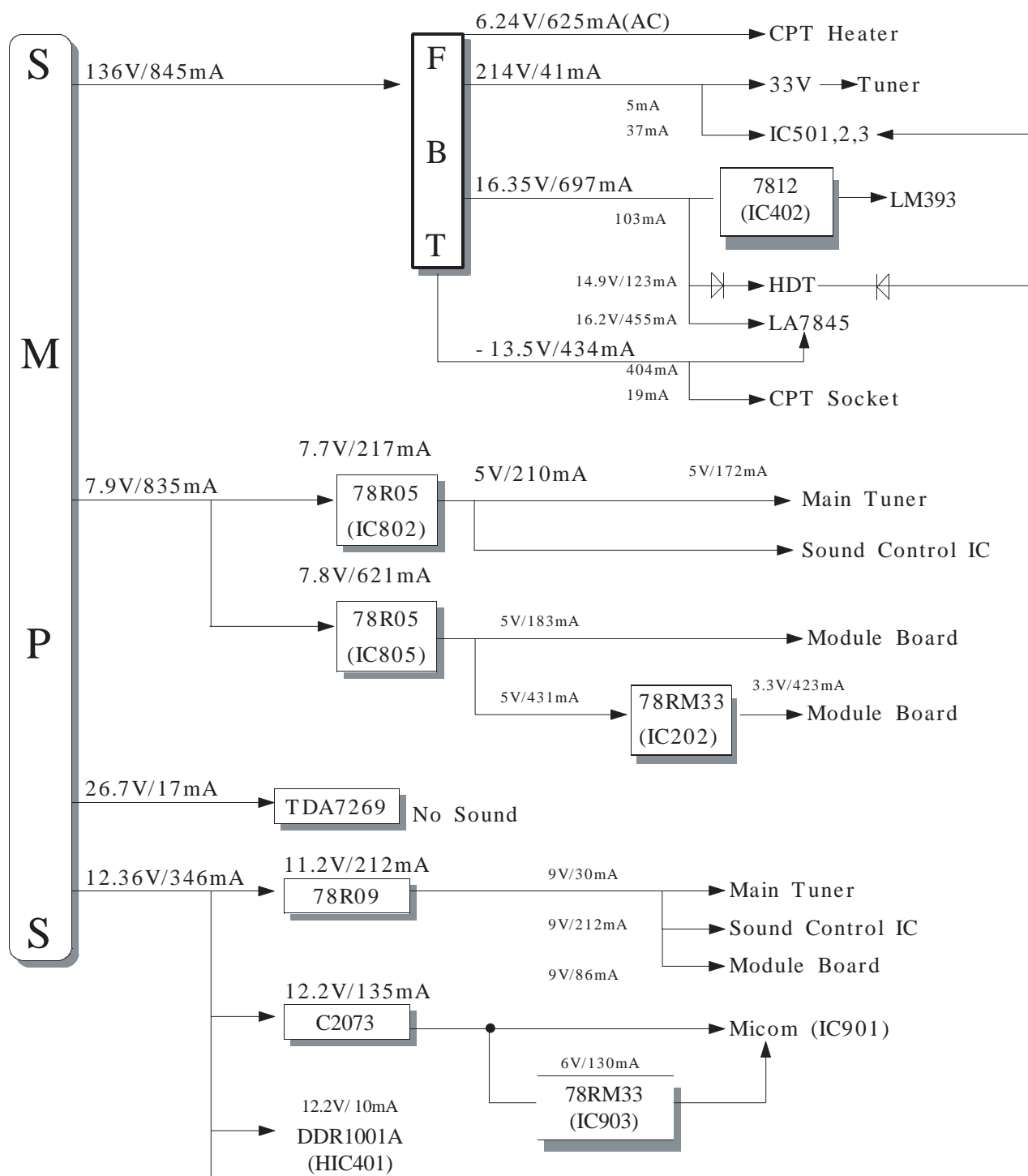
## 7-4 Horizontal Lines Appear

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## 8. Block Diagram

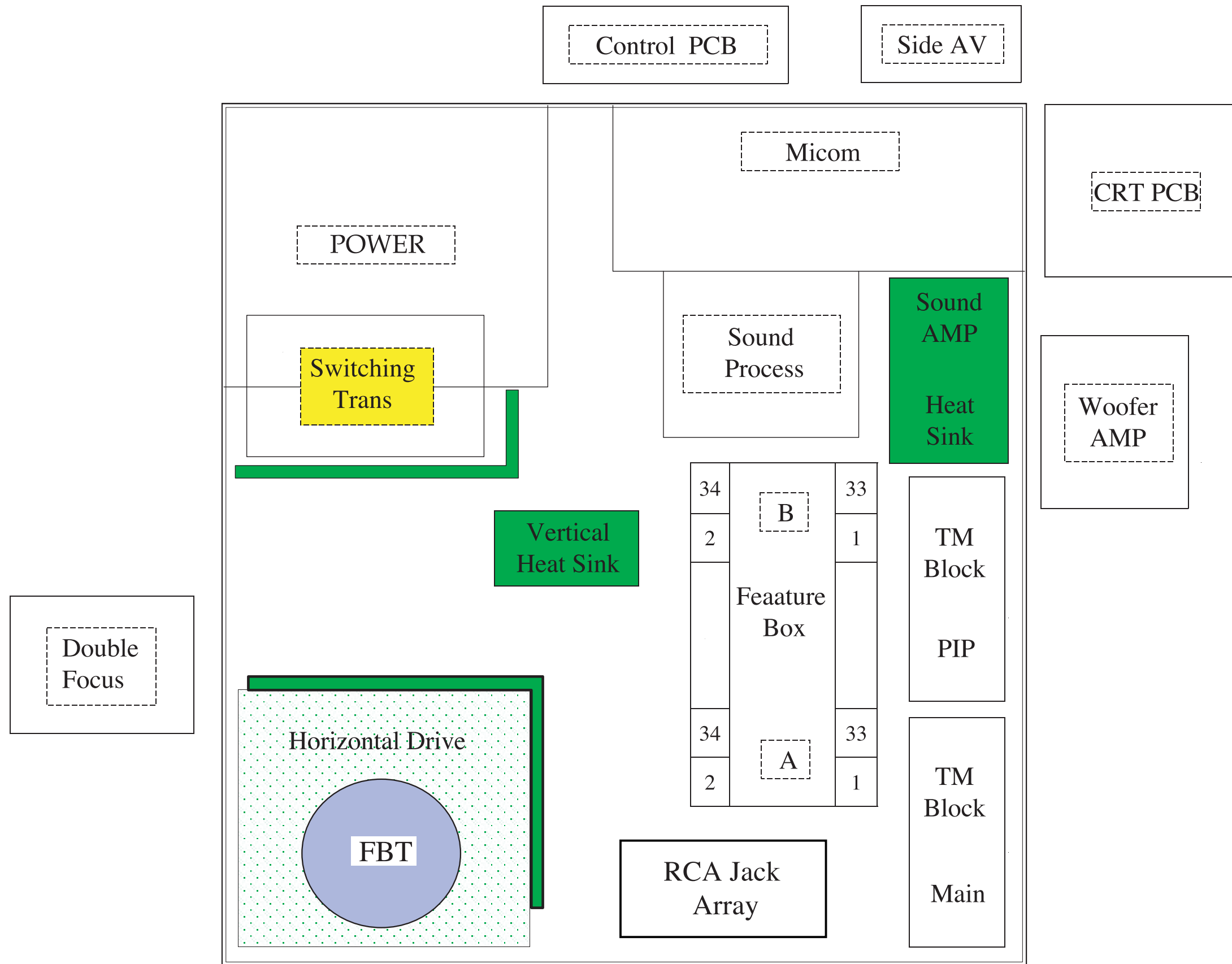
### 8-1 Voltage / Current Block Diagram



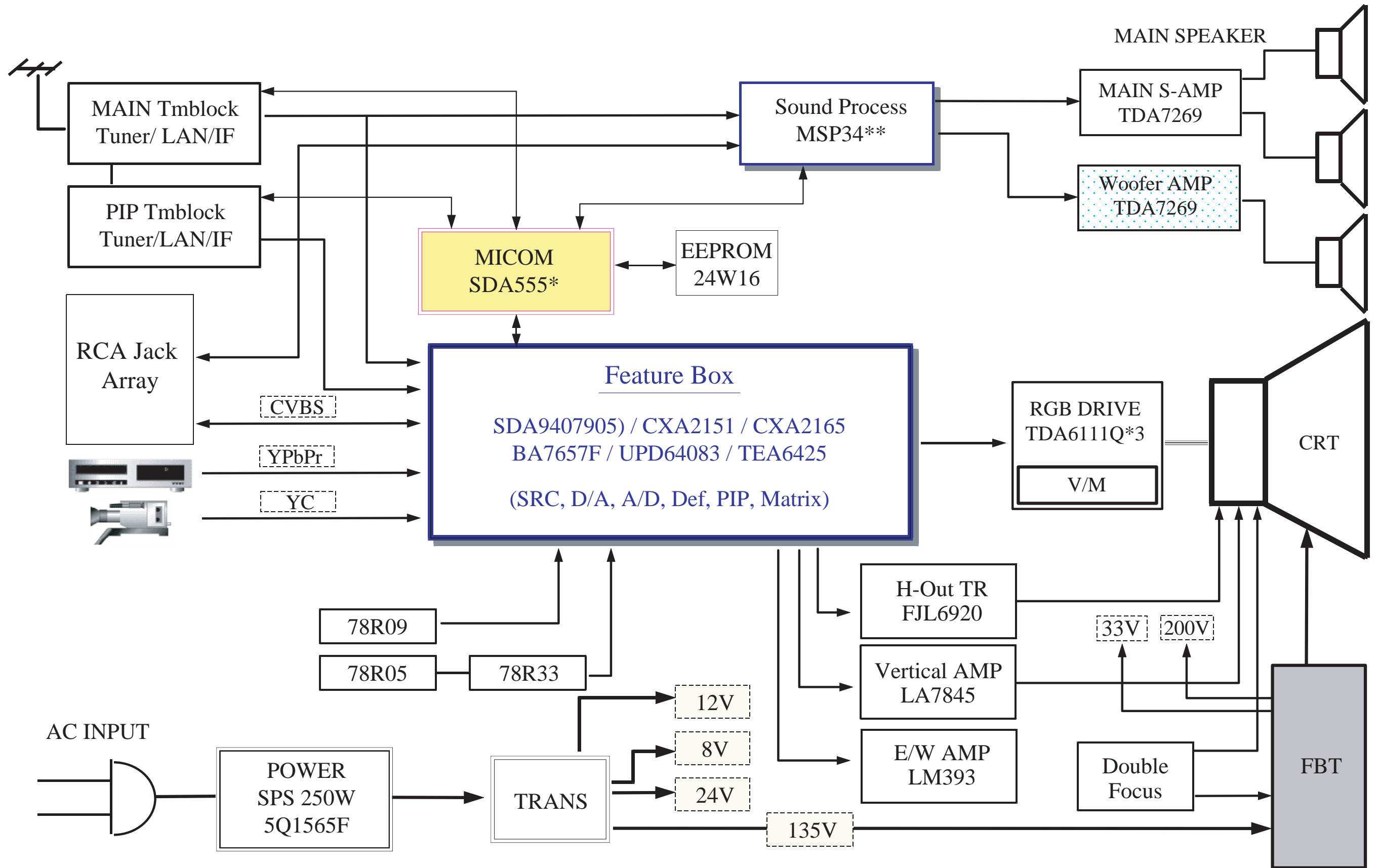
# MEMO



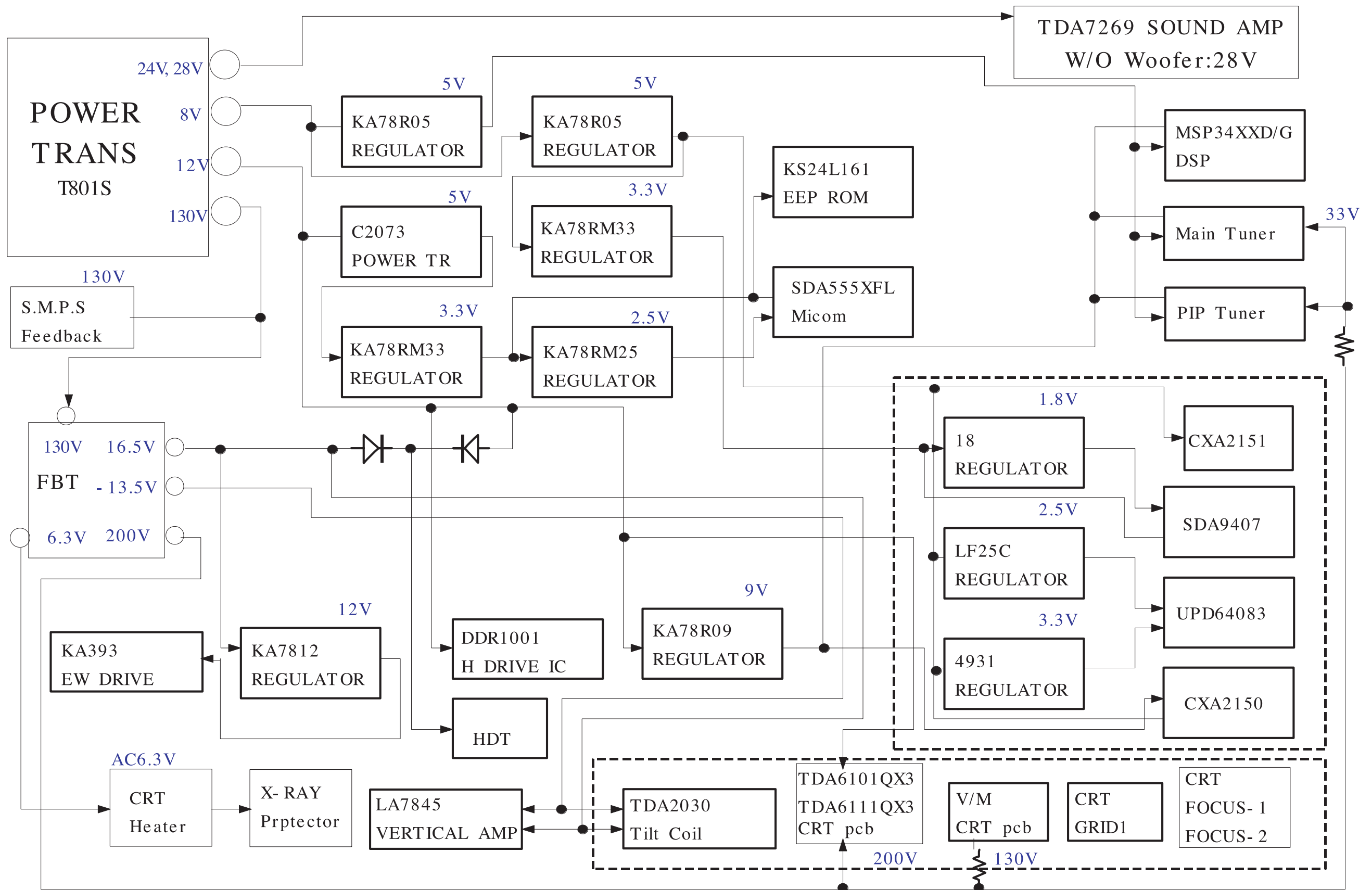
8-3 PCB Layout



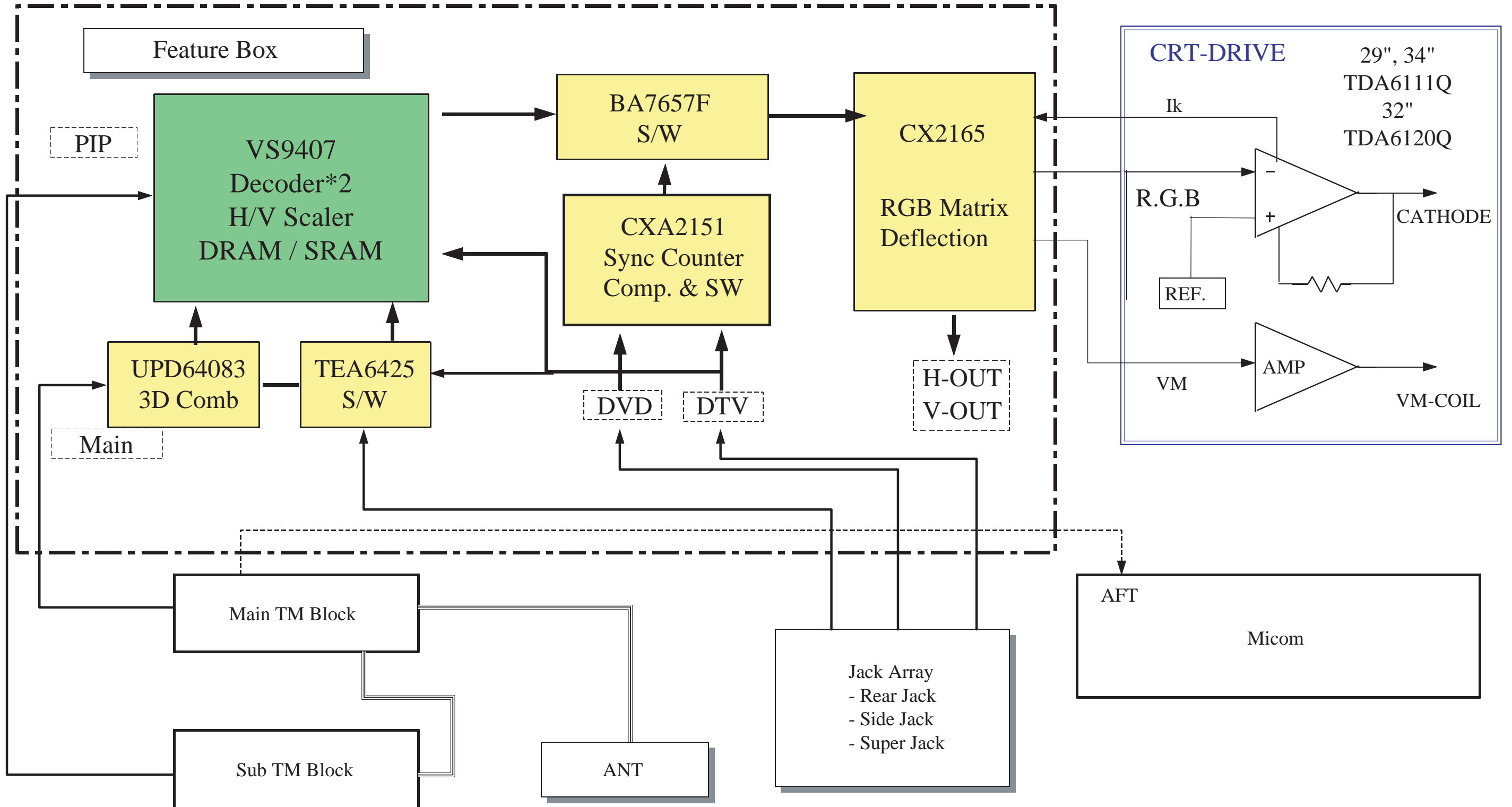
8-4 System Block Diagram



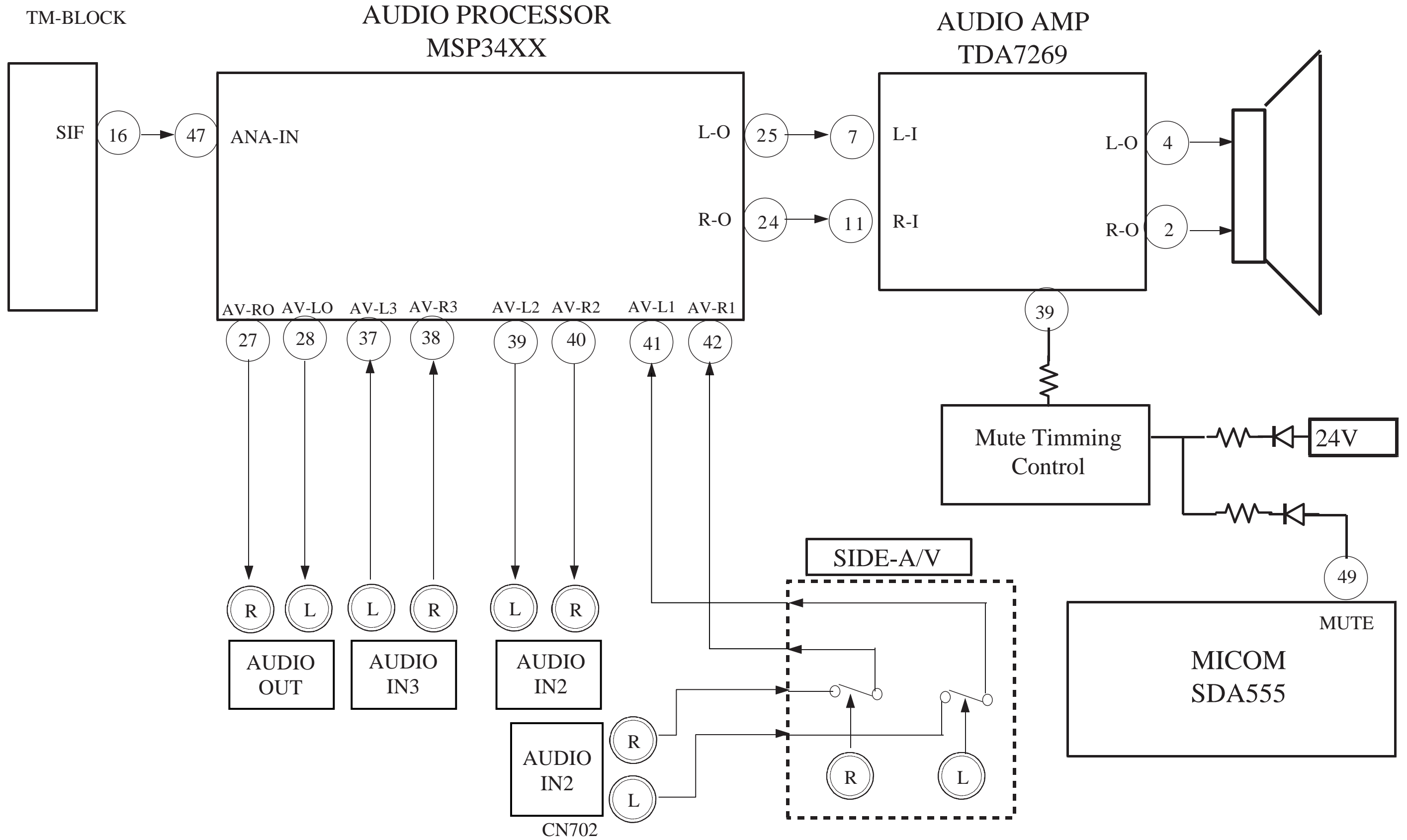
8-5 Power Block Diagram



8-6 Video Signal Block Diagram

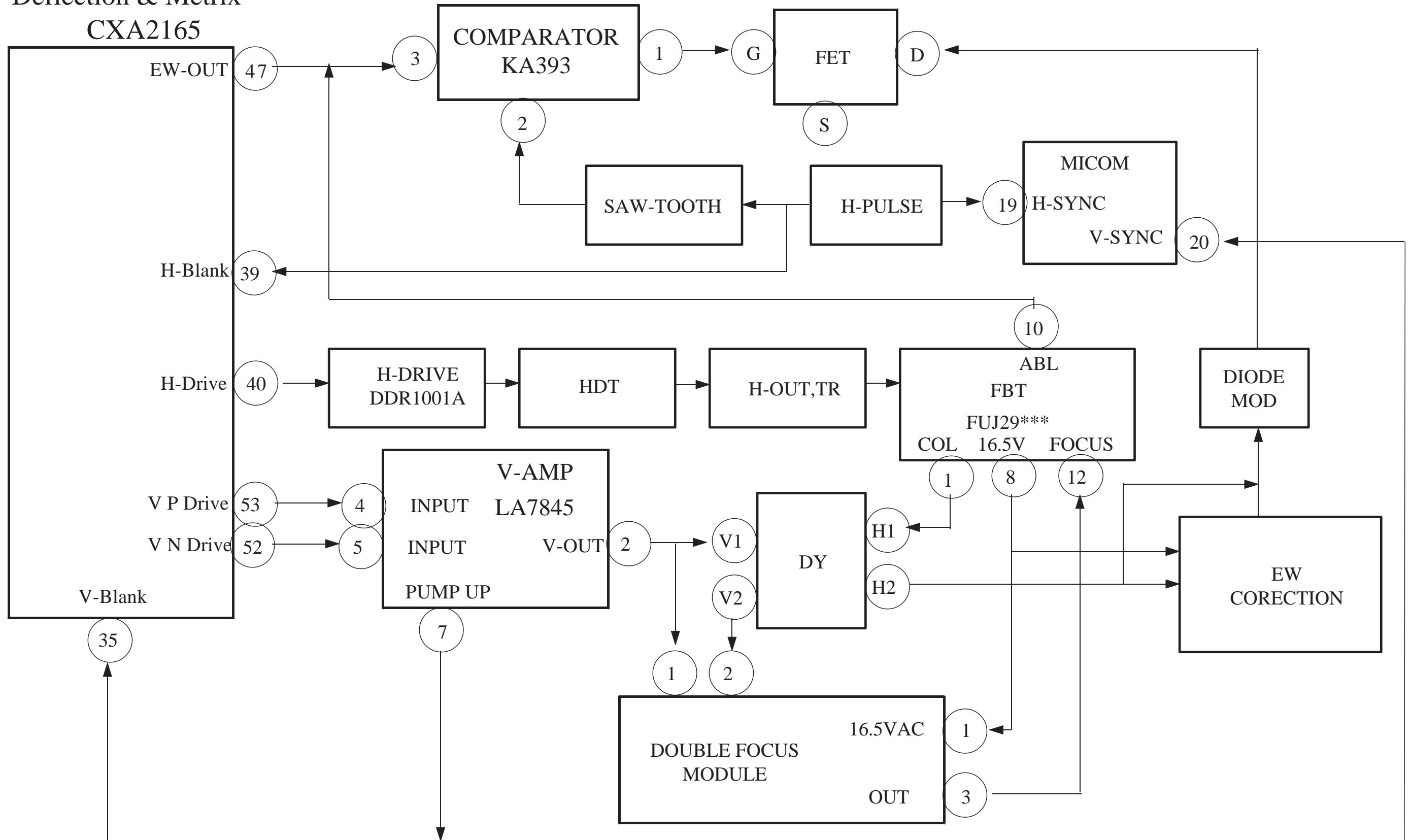


8-7 Sound signal Block Diagram



8-8 Deflection Block Diagram

Deflection & Metrix  
CXA2165

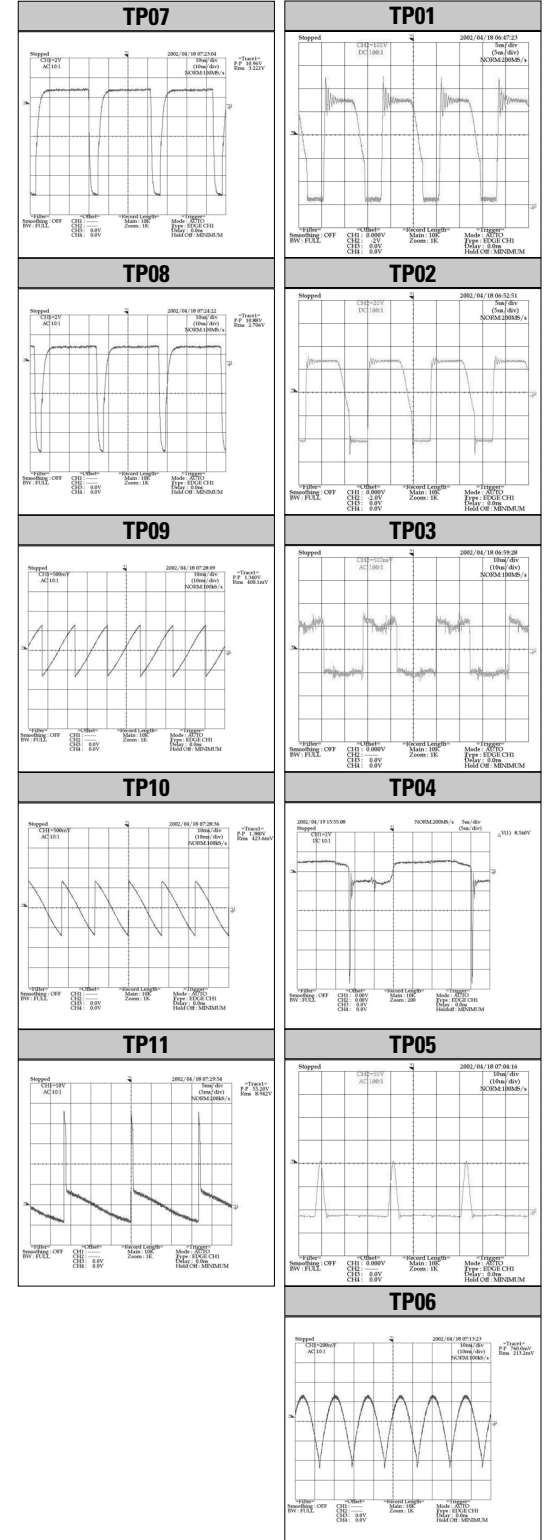
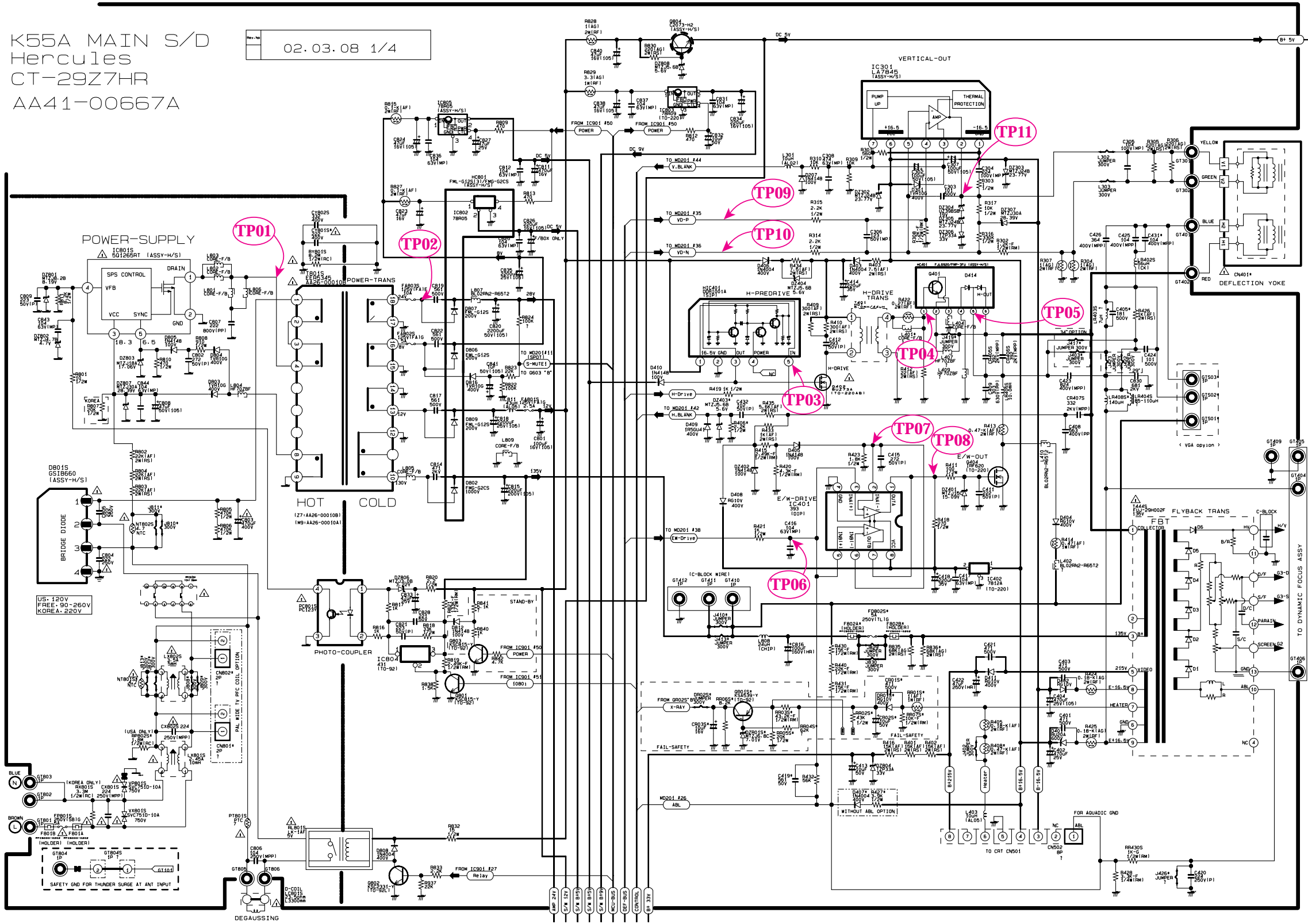


# 9. Schematic Diagrams

## 9-1 MAIN 1

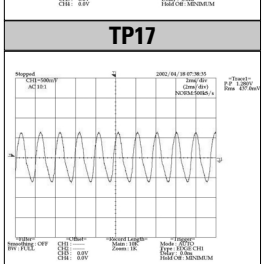
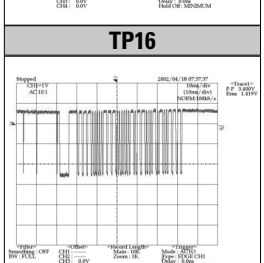
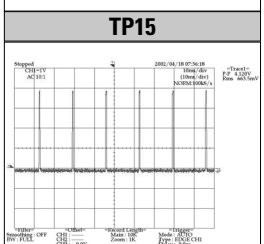
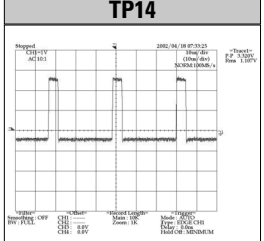
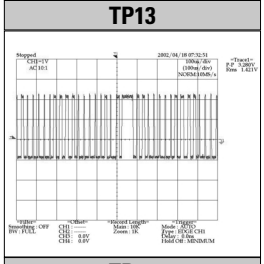
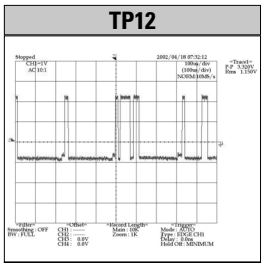
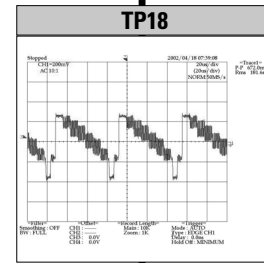
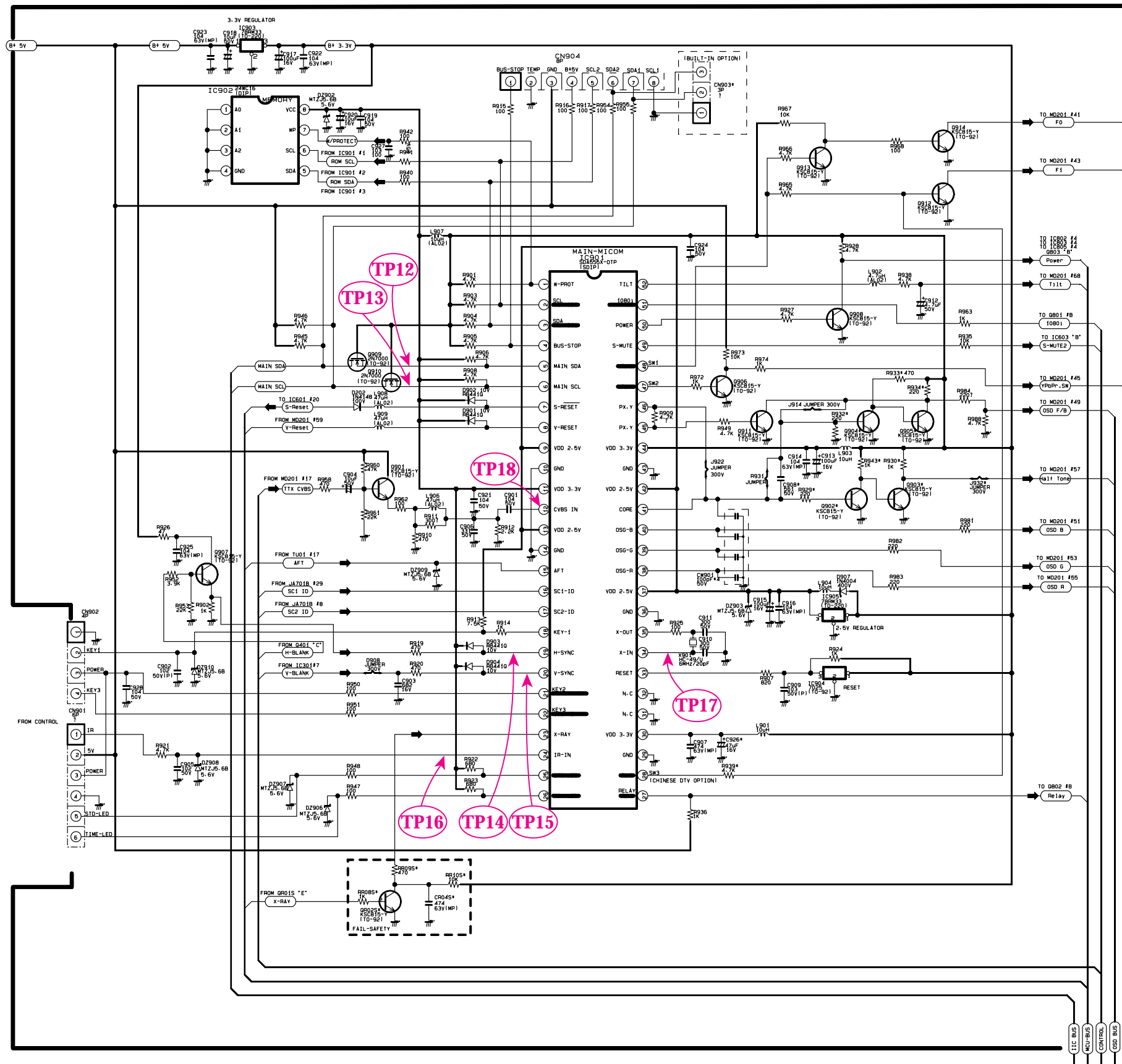
K55A MAIN S/D  
Hercules  
CT-29Z7HR  
AA41-00667A

02.03.08 1/4





9-2 MAIN 2



(WOOFER OPTION TABLE)

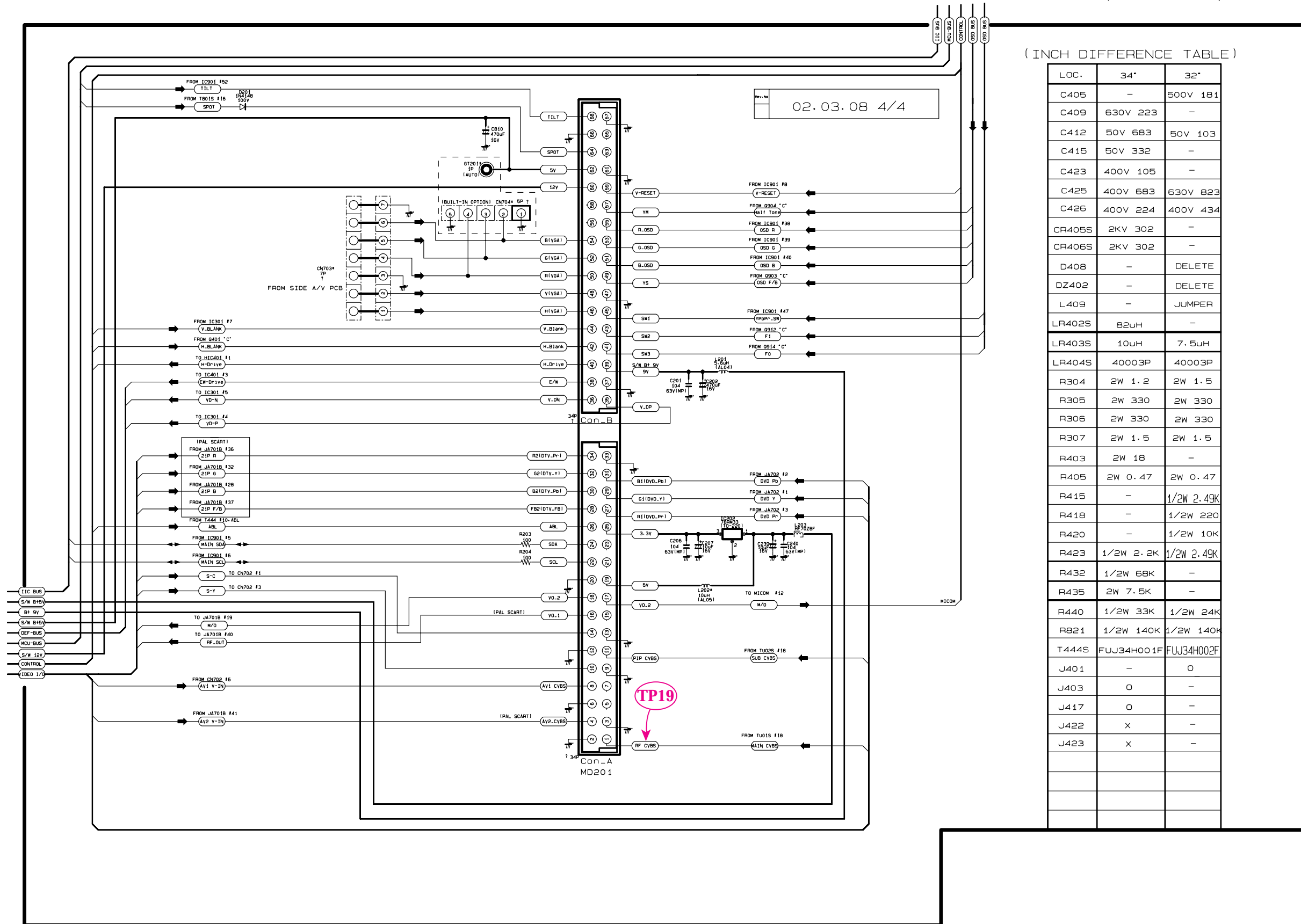
	USE	NOT USE
CN602	6P POST	X
T801S	AA26-00010B	00010A

(AREA DIFFERENCE TABLE)

	KOREA	USA
C803	400V 470uF	250V 820uF
CY802S	400V 332	400V 472
IC601	3421G-B8	3420G-B10
RB07	1/2W 20K	X
RP802S	X	1/2W 1.8M
RX801S	1/2W 3.3M	X
X-RAY CIRCUIT	X	O

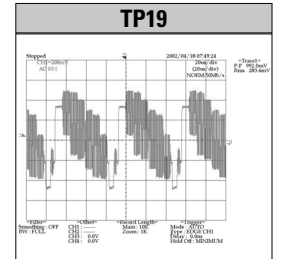


9-3 MAIN 3

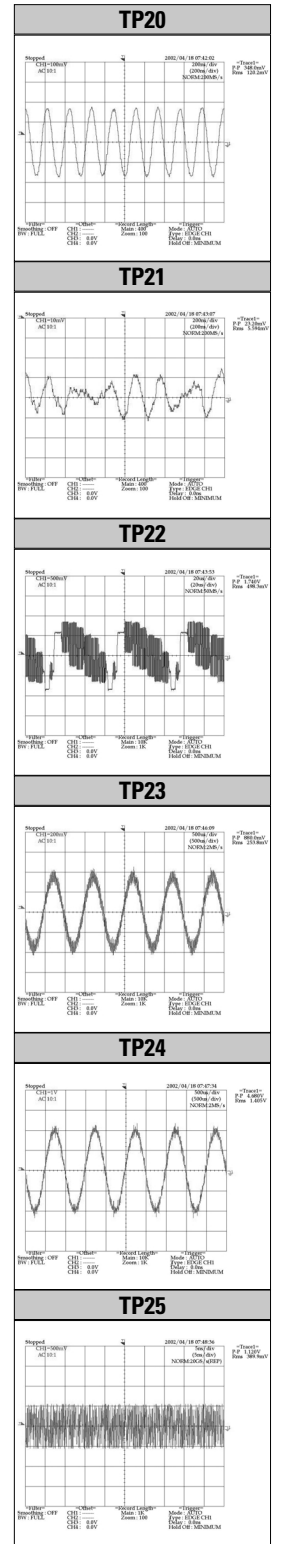
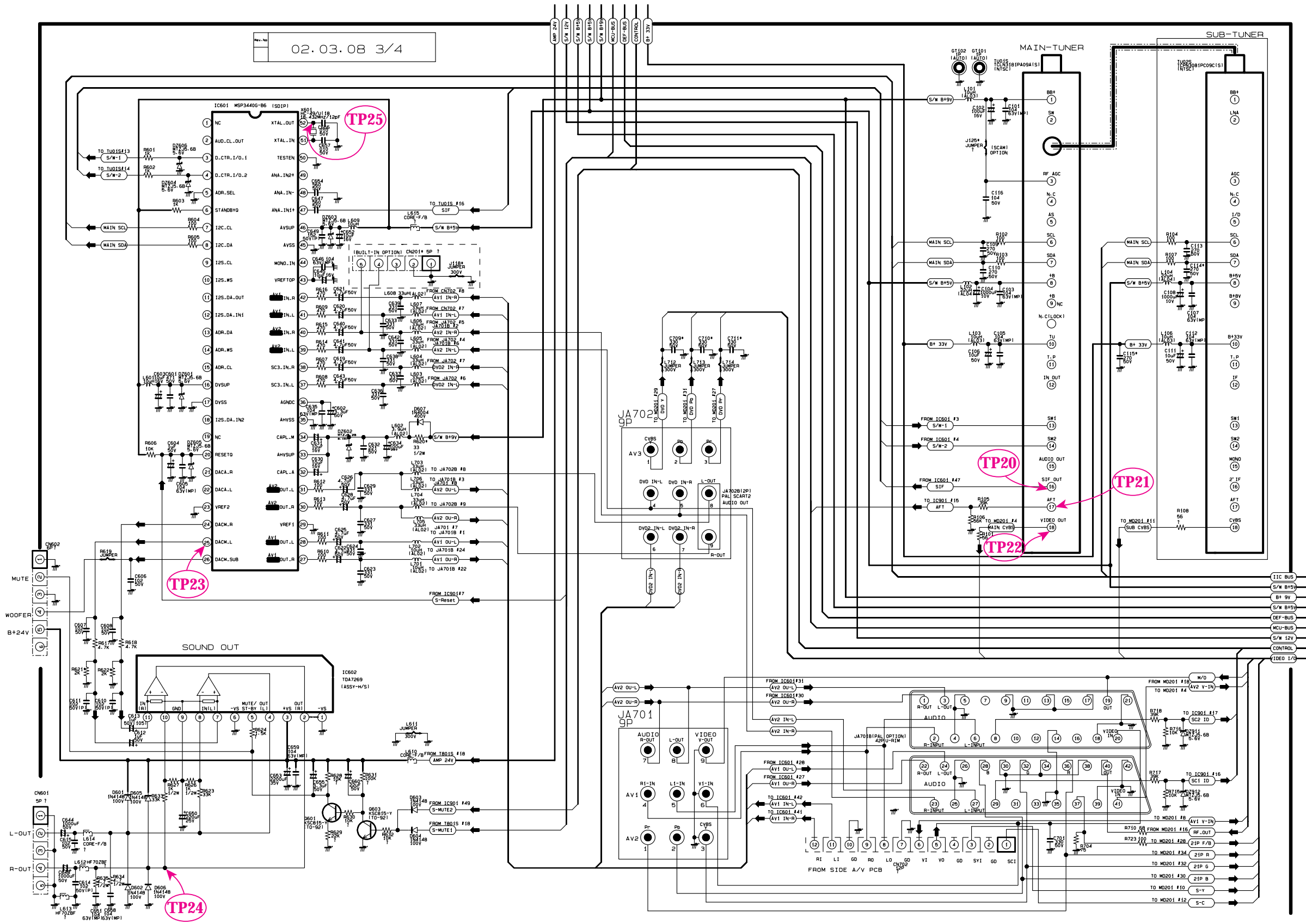


(INCH DIFFERENCE TABLE)

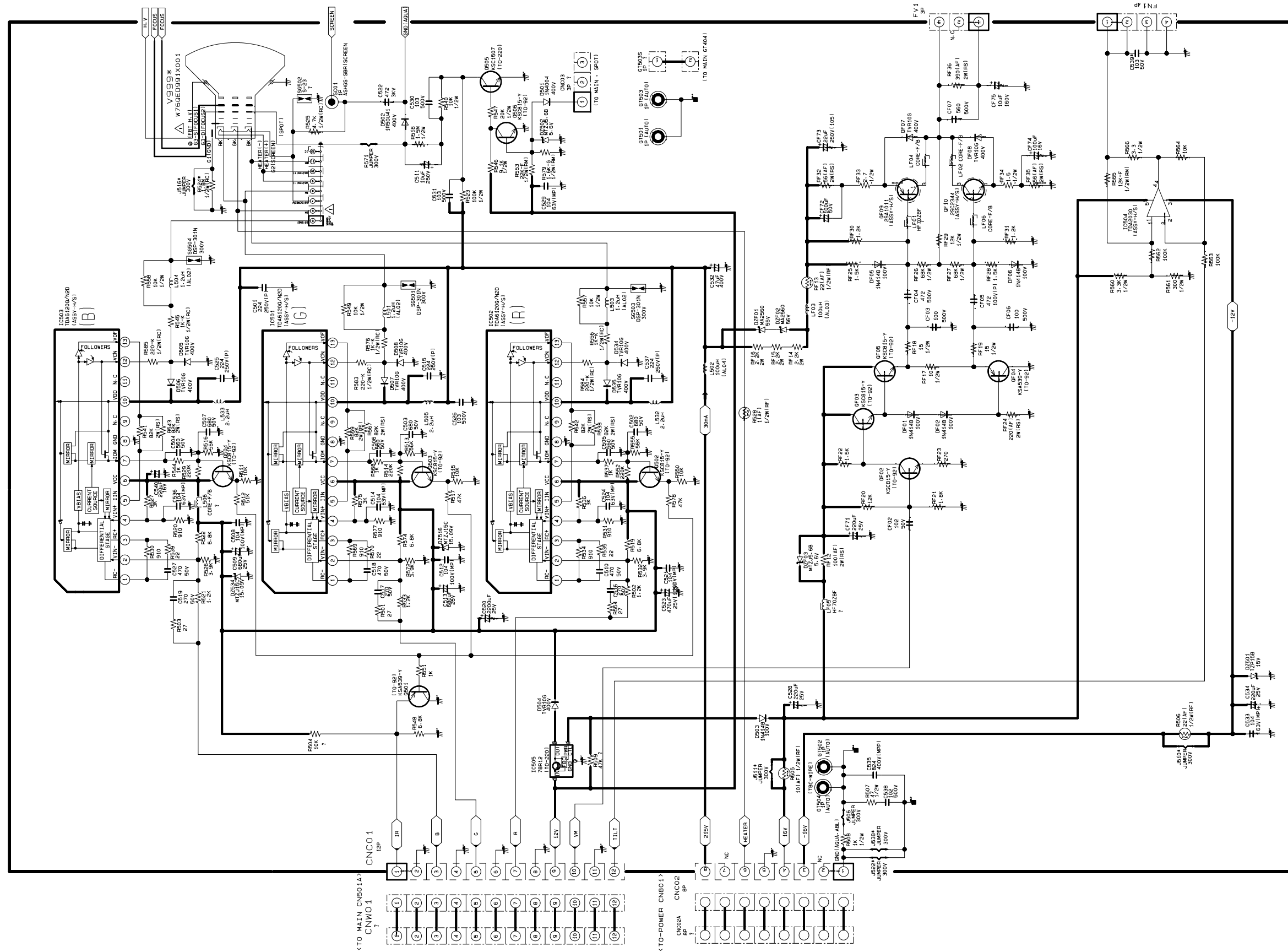
LOC.	34'	32'
C405	-	500V 181
C409	630V 223	-
C412	50V 683	50V 103
C415	50V 332	-
C423	400V 105	-
C425	400V 683	630V 823
C426	400V 224	400V 434
CR405S	2KV 302	-
CR406S	2KV 302	-
D408	-	DELETE
DZ402	-	DELETE
L409	-	JUMPER
LR402S	82uH	-
LR403S	10uH	7.5uH
LR404S	40003P	40003P
R304	2W 1.2	2W 1.5
R305	2W 330	2W 330
R306	2W 330	2W 330
R307	2W 1.5	2W 1.5
R403	2W 18	-
R405	2W 0.47	2W 0.47
R415	-	1/2W 2.49K
R418	-	1/2W 220
R420	-	1/2W 10K
R423	1/2W 2.2K	1/2W 2.49K
R432	1/2W 68K	-
R435	2W 7.5K	-
R440	1/2W 33K	1/2W 24K
R821	1/2W 140K	1/2W 140K
T444S	FUJ34H001F	FUJ34H002F
J401	-	0
J403	0	-
J417	0	-
J422	X	-
J423	X	-



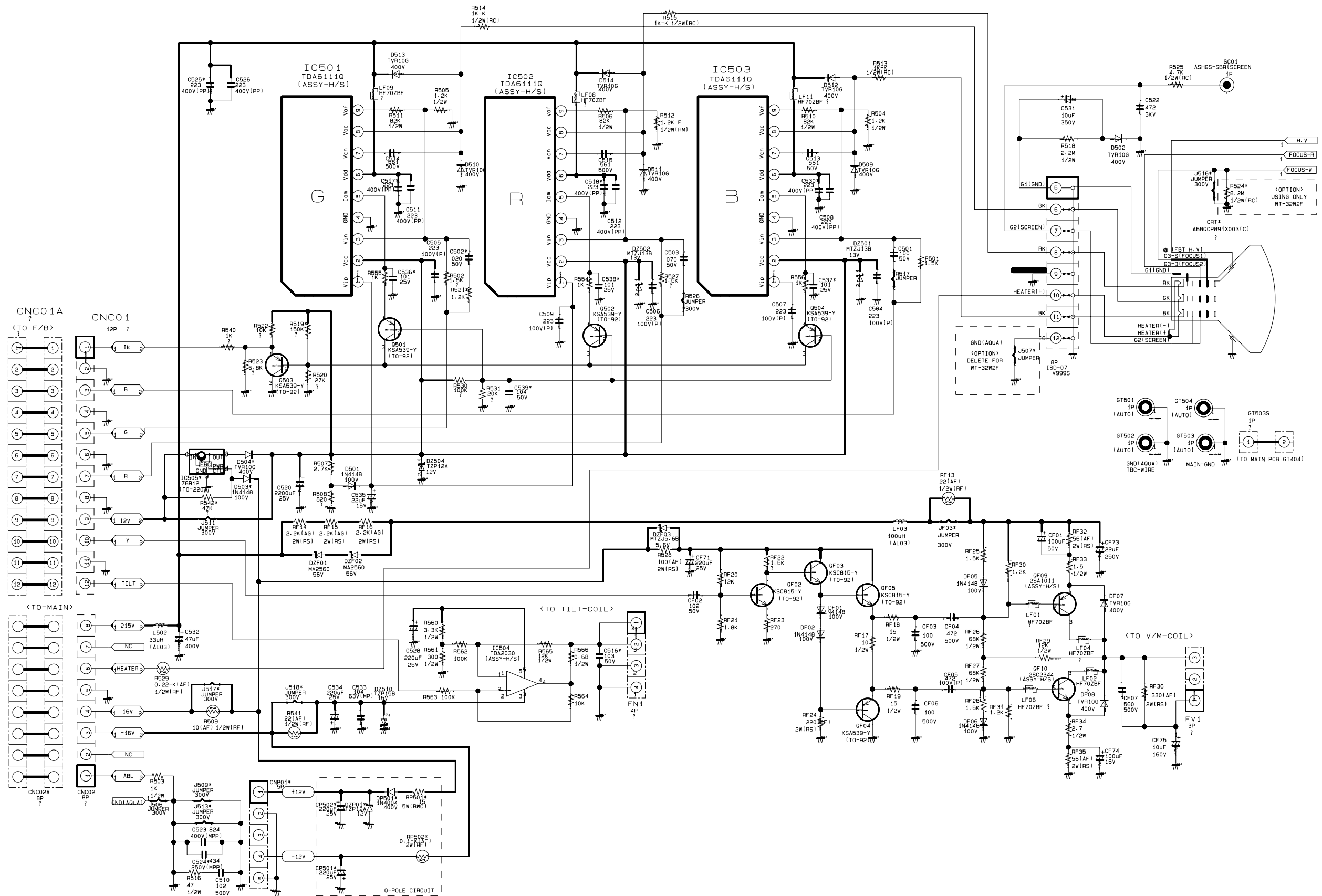
9-4 MAIN 4



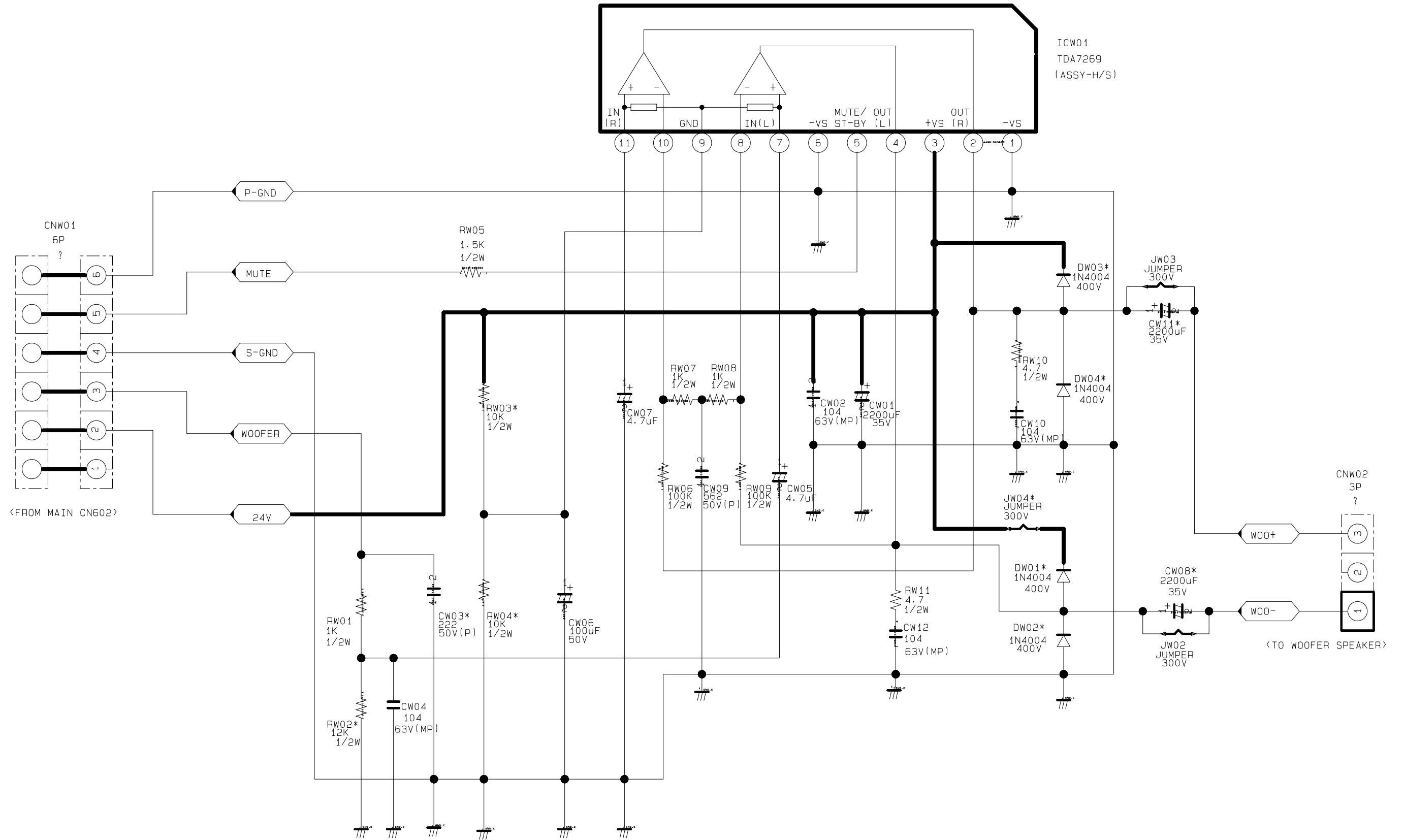
9-5 CRT / VM TDA6120Q



9-6 CRT / VM TDA6120Q

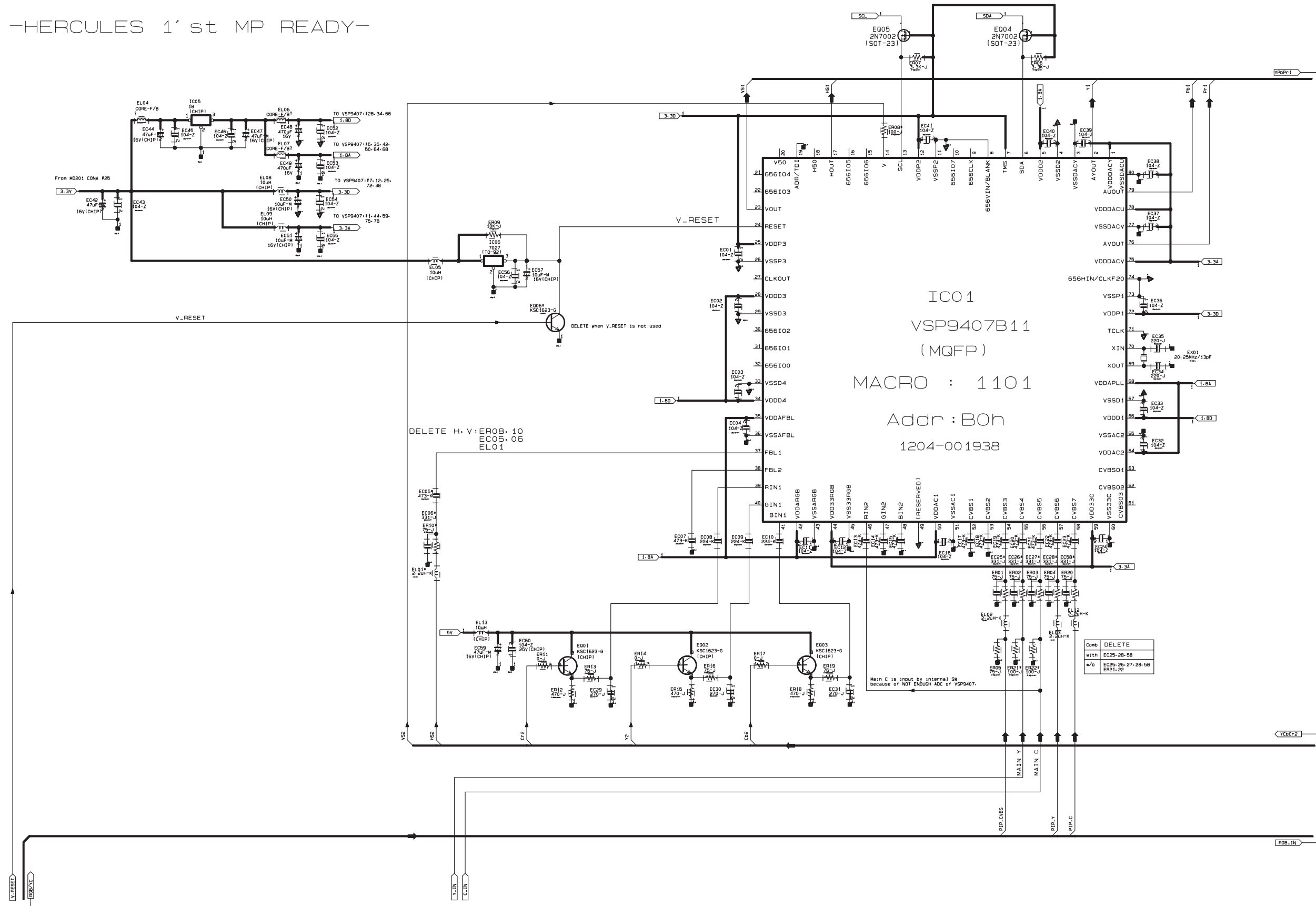


9-7 WOOFER

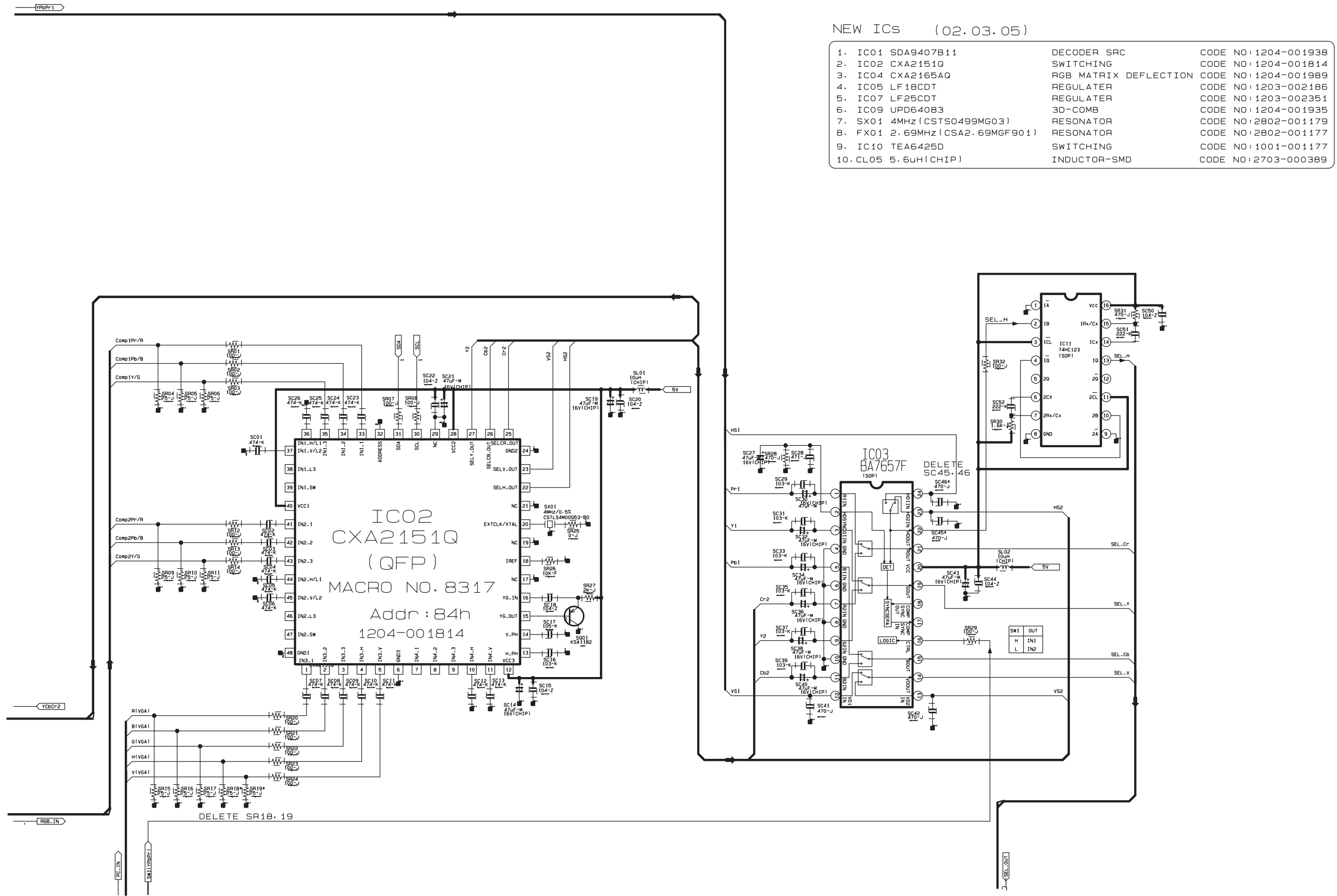


9-8 FEATURE-BOX-1

-HERCULES 1' st MP READY-



9-9 FEATURE-BOX-2

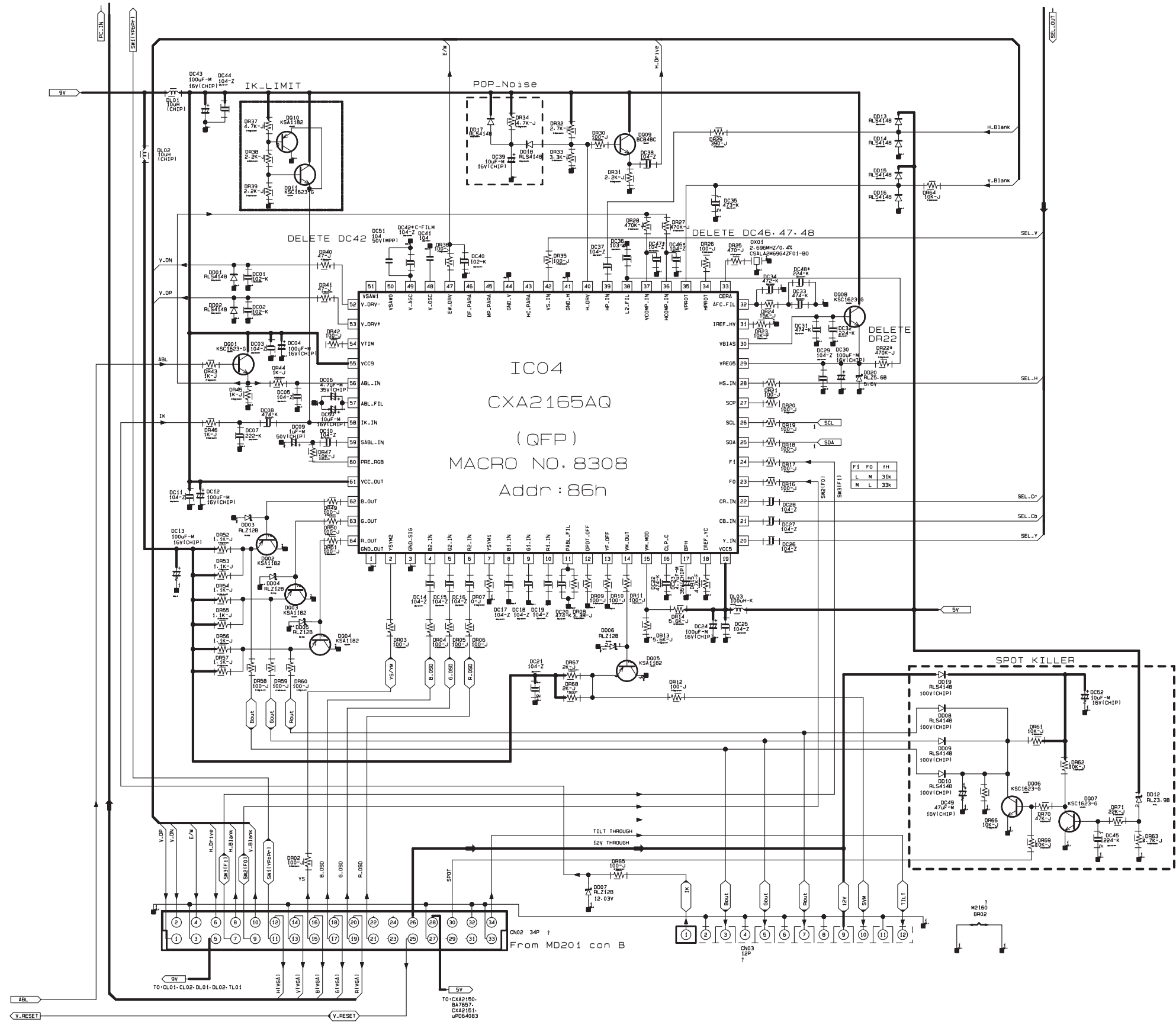


NEW ICs (02.03.05)

1. IC01 SDA9407B11	DECODER SRC	CODE NO: 1204-001938
2. IC02 CXA2151Q	SWITCHING	CODE NO: 1204-001814
3. IC04 CXA2165AQ	RGB MATRIX DEFLECTION	CODE NO: 1204-001989
4. IC05 LF18CDT	REGULATOR	CODE NO: 1203-002186
5. IC07 LF25CDT	REGULATOR	CODE NO: 1203-002351
6. IC09 UPD64083	3D-COMB	CODE NO: 1204-001935
7. SX01 4MHZ (CST50499MG03)	RESONATOR	CODE NO: 2802-001179
8. FX01 2.69MHZ (CSA2.69MGF901)	RESONATOR	CODE NO: 2802-001177
9. IC10 TEA6425D	SWITCHING	CODE NO: 1001-001177
10. CL05 5.6uH (CHIP)	INDUCTOR-SMD	CODE NO: 2703-000389

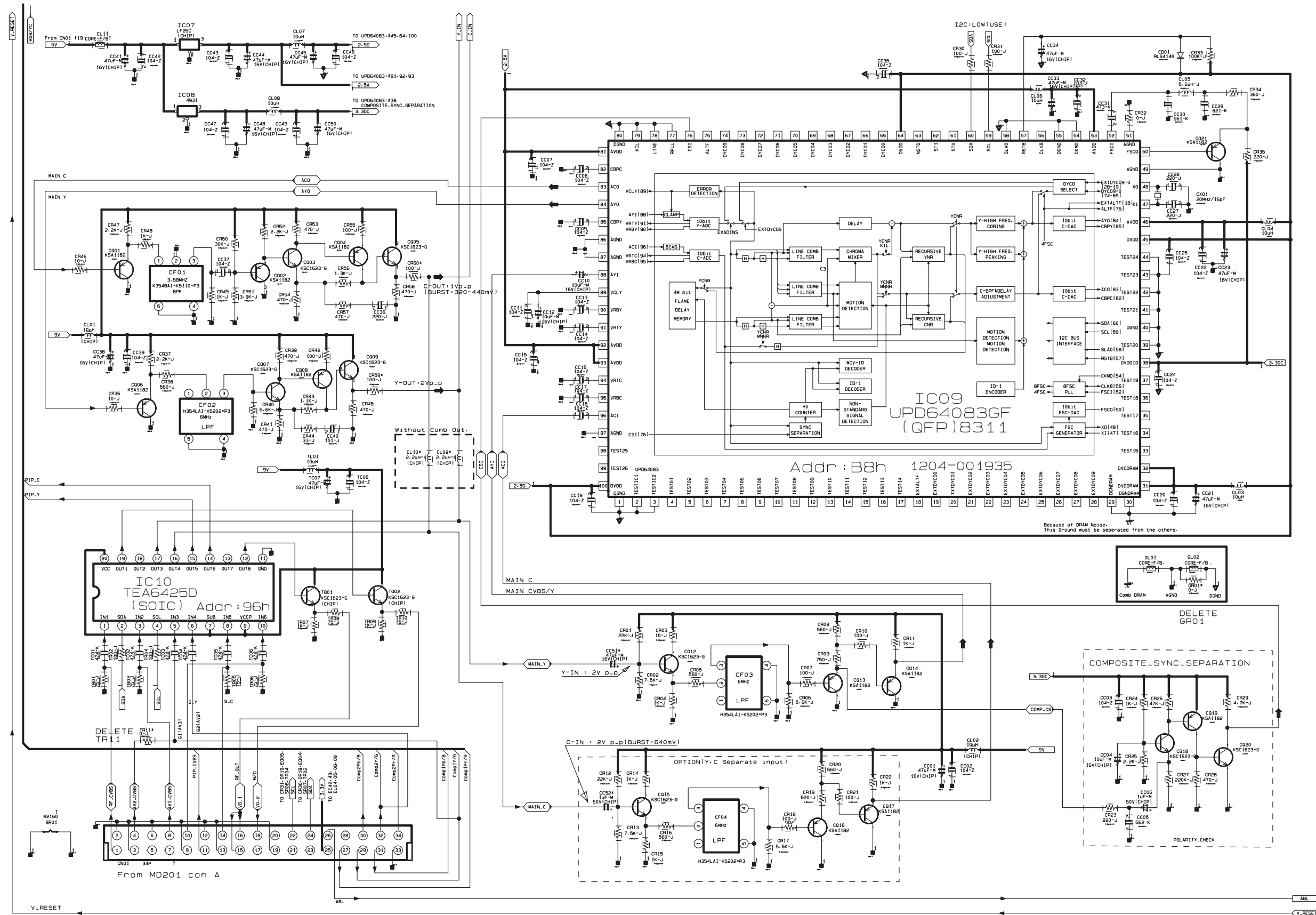


9-10 FEATURE-BOX-3





9-11 FEATURE-BOX-4



### 9-12 SIDE AV, WOOFER JACK, CONTROL

