

SAMSUNG

COLOR TELEVISION RECEIVER

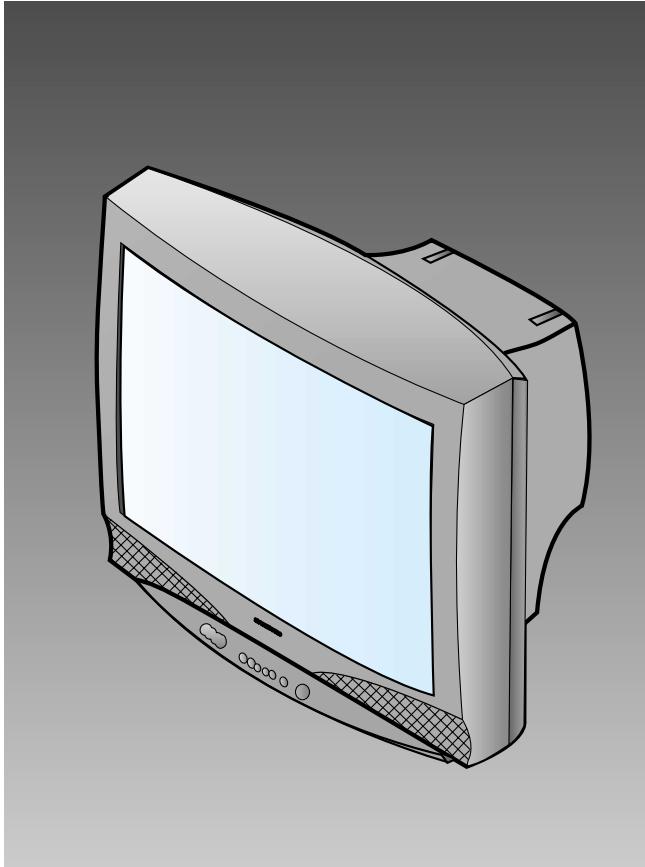
Chassis : KS3A(N)

Model : TXK3279C/XAA

TXK3279C/XAC

SERVICE Manual

COLOR TELEVISION RECEIVER



CONTENTS

1. Precautions
2. Reference Information
3. Specifications
4. Alignment and Adjustments
5. Troubleshooting
6. Exploded Views and Parts List
7. Electrical Parts List
8. Block Diagrams
9. Wiring Diagram
10. Schematic Diagrams



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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.

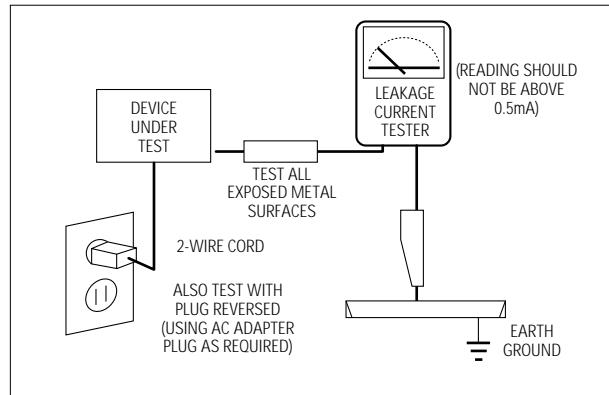


Fig. 1-1 AC Leakage Test

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)

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

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)

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.

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

Table 2 - 3 IC Line - Up

NO	BOARD	LOC. NO	SPEC	DESCRIPTION	REMARK	
1	MAIN	IC201S	VDP3130Y	Video Processor	Refer to Table 2-3-1	
		IC601	MSP3451G	Multistandard Sound Processor	Refer to Table 2-3-2	
		IC901	SIM408AY	MICOM, TTX(MTP)		
		IC902	KS24L161	EEPROM		
		IC602	TDA7297	Audio AMP	Refer to Table 2-3-3	
		HIC201	DRGB001	RGB Drive AMP Hybrid IC	VM Option	
		HIC202				
		HIC203				
		HIC204				
		HIC401	DDRI001	100Hz Horizontal Pulse AMP	Option	
		IC301	LA7845	Vertical IC		
		Q402	KSC2073-H2	Horizontal Drive IC		
		Q401	KSD5703		HC401	
		D414	FMP-3FU			
		IC401	KA393	E/W Drive IC		
		Q404	IRF620			
		IC801S	3S1265R	SPS Controller		
		D801S	RBV606	Bridge Diode		
		PC801S	PC123Y	Photo Coupler		
		IC802	KA78R05	5V Controlled Regulator	HC801	
		D805	FML-G12S	Rectifier Diode		
		D806				
		D807				
		D802	FMG-G2CS			
		IC201	KA78RM33	3.3V Regulator	VDPY	
		IC804	KA7806	6V Regulator		
		IC803	KA78R08	8V Controlled Regulator		
		IC903	KA78RM33	3.3V Regulator		
		IC904	KIA7025AP	MICOM Reset IC		
		Q909	2N7000	IIC Level Shifter		
		Q910				
		TU01S	TCLN3181PA09A	Main Tuner with IF Block	Refer to Table 2-3-4	
		TU02S	TCNP3081PD09A	Sub Tuner with IF Block	Refer to Table 2-3-5	

Table 2 - 3 IC Line - Up

NO	BOARD	LOC. NO	SPEC	DESCRIPTION	REMARK	
2	CRT	IC501	TDA6111Q	Video Output AMP R.G.B Drive		
		IC502				
		IC503				
		QF04	2SC2344	Push-Pull (VM)	Option	
		QF05	2SA1011			
		QG02	KSA940	TR-Power (TILT)		
		QG03	KSD2073-H2			
		ICG01	KA4558	OP-AMP (TILT)		
3	DOUBLE FOCUS	ICH01	KA4558	OP-AMP	Option	
		QH01	2SC4636RB	TR-Power		
4	V-S/W	ICS01	TEA6425	Video Switching IC with Adder Output	Option	
5	PIP	ICP01	SDA9388X	High-end Picture-In Picture IC	Option	
		ICP02	EZ1086CM	3.3V Regulator		

Table 2-3-1 VIDEO IC (IC201S)

SPEC	FUNCTION	REMARK
VDP3108B	50Hz Basic	
VDP3112B	50Hz, 2H Comb Filtr	
VDP3120B	50Hz, 2H Comb Filter, Horizontal Scaler	
VDP3130Y	50Hz, 2H Comb Filter, DVD Input	
VDP3140D	100Hz	

Table 2-3-2 SOUND IC (IC601)

SPEC	FUNCTION	REMARK
MSP3400D	Multistandard, A2 Stereo	
MSP3410D	Multistandard, A2 Stereo, Nicam	
MSP3411G	Multistandard, A2 Stereo, Vitual Dolby	
MSP3440G	Multistandard, A2 Stereo, Vitual Dolby	
MSP3451G	Multistandard, A2 Stereo, Vitual Dolby	

Table 2-3-3 SOUND AMP (IC602)

SPEC	FUNCTION	REMARK
TDA7297	15W x 2CH, 10W x 2CH	

Table 2-3-4 1'st TUNER (TU01S)

SPEC	FUNCTION	REMARK
TCLN3181PA09A	NTSC, PAL N.M, LNA Function	Main, F-Jack
TCPN3081PC09A	PAL N.M, NTSC, LNA Function	Main, Thin Jack
TCPN3081PA09A	PAL N.M, NTSC, LNA Function	Main 1Tuner

Note TCPS3001PD09A(S) is out-of-date, TCPS3001PD09D(S) which is up-to-date has the same function.

Table 2-3-5 2'nd TUNER (TU02S)

SPEC	FUNCTION	REMARK
TCLN3181PD09A	NTSC, PAL N.M LNA Function	Sub
TCPN3081PD09A	NTSC	Sub

MEMO

3. Specifications

Television System	Multi	NTSC-M, PAL N.M	
Antena Input		75ohms, Coaxial Cable	
Power	Consumption	160W (Applied When 29" Flat)	
	Requirements	Free Volts(100V-240Volts)	
		Free Voltage	Not Present R815
Sound	Frequency	50/60Hz	
	Output	15W x 2CH	
		10W x 2CH	
		5W x 2CH	
	Effect	Vitual Dolby	Option
		Turbo Sound	
		Pseudo Stereo	
Jacks	Front (AV2)	RCA Input	
		S-VHS	Option
		Head-Phone	
	Back	2 AV Input	
		DVD Input(YPbPr)	Option
		AV2 Monitor Audio Output	Option
		S-VHS	Option

Specifications are subject to change.



Specifications for Model Name

	Function	NOTE
P	2 TUNER PIP	

MEMO

4. Alignment and Adjustments

4-1 General Alignment Instructions

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. Observe the picture for good black and white details. There should be objectionable color shading; if color shading is present, demagnetize, perform purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

4-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set is moved or turned in a different direction, the power should be OFF for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before turning power OFF.

If color shading persists, perform the following Color purity and Convergence adjustments.

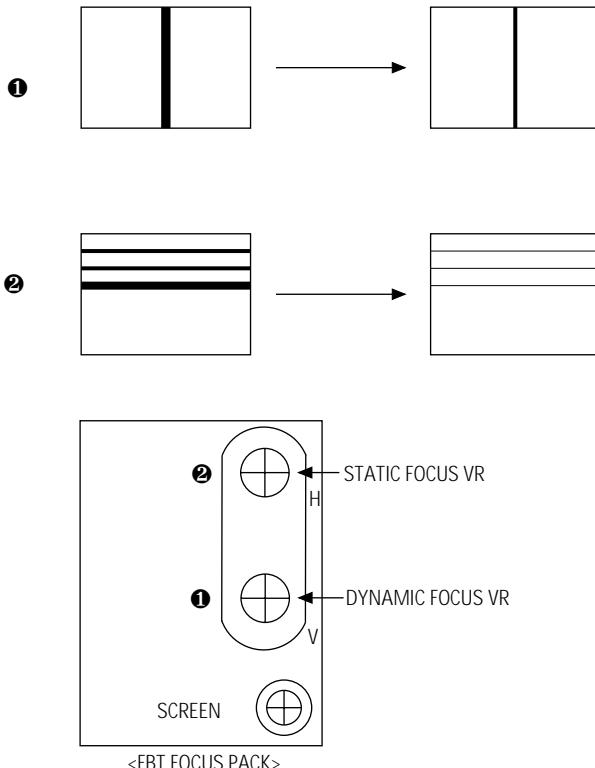
4-3 High voltage Check

CAUTION : There is no high voltage adjustment on this chassis. The B+ power supply should be +135 volts (with full color-bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 32 KV under any conditions.

4-4 Dynamic Focus Adjustment

1. A dynamic focus adjustment should be done after replacing the CRT PCB, FBT or CRT.
2. Input a crosshatch pattern.
3. Enter " STANDARD " in video mode.
4. Turn the Dynamic focus VR fully clockwise (maximum).(①)
5. Turn the Static focus VR fully counterclockwise (maximum).(②)
6. Slowly turn the static focus VR counterclockwise. Adjust until the vertical line in the middle of the screen has maximum clarity.(①)
7. Slowly turn the dynamic focus VR (clockwise) and adjust the 3rd horizontal line for maximum clarity.(②)
8. Repeat 4-7, if necessary.



4-5 SCREEN Adjustment

1. Input Toshiba Pattern
2. Enter "Service Mode".(Refer to "Service Mode")
3. Select "G2-Adjust".
4. Set the values as below.

IBRM = 200
WDRV = 35
CDL = 200
COLR G B = 120 120 120

5. Turn the SCREEN VR until "MRCR G B" and "MRWDG" are green and those value are about 100.
(The incorrect SCREEN Voltage may result that "MRCR G B" and "MRWDG" should be red)

Note 1. When you do not have Toshiba Pattern, follow this method.

1. Set the TV on the condition that AV mode no signal(black)
2. Enter the "Menu" and set the mode to blue screen off.
3. Enter the "Service Mode".
4. Select " G2-Adjust".
5. Set the values as below.

IBRM = 200

WDRV = 35

CDL = 200

COLR G B = 120 120 120

6. Turn the SCREEN VR until the value of " MRCR G B" is about 120. Do not mind that the "OSD" Color is red.

■ After completing G2-Adjust, follow this procedure.

- ① Enter the "Video Adjust 1".
- ② Choose any item in menu. (ex. Select "Red Cutoff")
- ③ Change the value of item you select, and recover the value.

For example, when the value of "Red Cutoff" is 127, change the value to 128 and restore the value to 127.

If you do not follow this procedure, the picture may be abnormal.

For example, when the TV set is on, the picture becomes brighter gradually.

4-6 E²PROM (IC902) Replacement

1. When IC902 is replaced, all adjustment data revert to the initial values.
So, all adjustment values when servicing should be readjusted.
2. After IC902 is replaced, connect the AC power supply cord.
3. Turn the power switch ON.
4. In stand-by, warm up the TV for at least 10 seconds.
5. Power on the TV.

4-7 White Balance Adjustment

- Equipment : Color-Analyzer (CA-100)
- Input Signal : Pattern signal (Toshiba pattern)

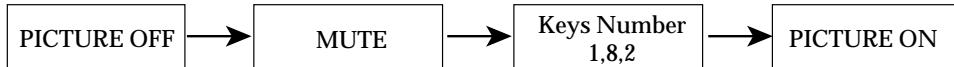
1. Select STANDARD from the menu.
2. Input an 100% White pattern.
3. Enter the “Service Mode”. (Refer to “4-8 Service Mode”)
4. Warm up the TV set at least for 30 minutes.
5. Input a Toshiba pattern signal.
6. Enter the “Video Adjust1”.
 - Adjust “Sub Contrast” so that Y (luminance) becomes 50 ft ± 3.
 - Use “Red Drive” and “Blue Drive” to adjust High-Light (x : 275, y : 295)
 - Adjust “Sub Bright” so that Y (luminance) becomes 1.5ft ± 0.3.
 - Use “Red Cutoff” and “Blue Cutoff” to adjust Low-Light (x : 275, y : 295).
7. Adjust CA-100 so that the final adjustment value can be fixed.
8. Use the Channel Up/Down (▲/▼) buttons to move the cursor on the adjustment modes.
9. Use the Volume +/- buttons to change the adjustment value.

4-8 Factory Adjustment

4-8-1 Service Mode

- To enter the “Service Mode”, Press the remote-control keys in this sequence :

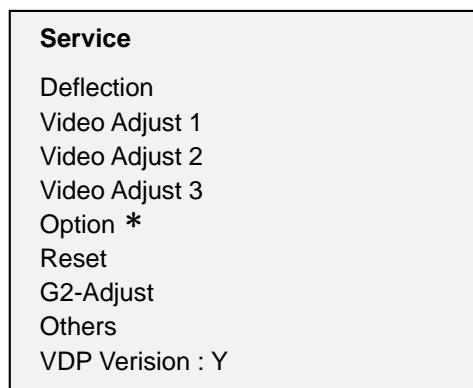
- If you do not have Factory remote-control



- If you have Factory remote-control



- After the Service Mode is entered, the initial screen is as shown in the figure below.



* These hexa digits are check sum value which depends on the MICOM.
If check sum value is changed, the value of E²PROM Data newly initialed.

- Use the Channel Up/Down buttons to move the cursor in the adjustment parameters.

Note 2.

- When CRT, CRT PCB, FBT, E²PROM (sometimes MICOM) is replaced, the adjustment values should be controlled.
- After the Service adjustment is completed, Do not select “Reset” in the service mode menu. (After above procedure is done, power is on initially and the “Plug and Play” will be operated.)

Note 3.

- When E²PROM (IC902) and Micom are replaced at the same time :
 1. After the Factory Mode is entered, check the VDP version in the service list.
 2. Set the version so that the VDP version is identical with the video chip (IC201S)
 3. After all settings are completed, adjust the service value of each mode to its default.
 4. Refer to “Service Manual” for factory value.
 5. Check the version
 - a. Check the VDP version “Y” in the Factory Mode.
 - b. Version Mode : “Y”, “B” from IC201S(Video Chip) VDD3130”Y”
VDD3112”B”, VDD3108”B”

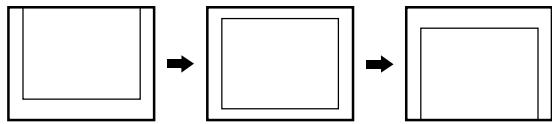
4-8-2 Memory Data

4-8-2(A) DEFLECTION (GEOMETRIC ADJUSTMENT VALUE)

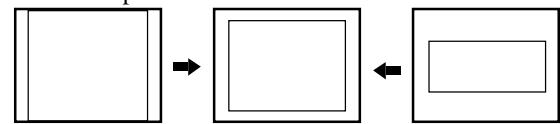
DEFLECTION	Initial Value	Adjustment Value	SAM2540 SAM2740	TXK3276	CL29A6	TXK3279	TXK3676	TXK3679
H Bow	0	Fixed	0	0	0	0	0	0
H Angle	0	Adjustment	0	0	10	0	0	0
H DSCC	1	Fixed	1	1	3	3	1	3
V SHIFT	-40	Adjustment	-18	<u>-27</u>	-55	-51	<u>-27</u>	-51
V AMP	5	Adjustment	18	<u>-17</u>	0	-35	<u>-17</u>	-35
V SLOPE	-2	Adjustment	-4	<u>-3</u>	0	-2	<u>-3</u>	2
V SC	-7	Fixed	-13	-13	-17	0	-13	0
H EW	64	Adjustment	24	<u>71</u>	45	49	<u>71</u>	49
H TRAPEZIUM	-20	Adjustment	20	<u>-50</u>	-50	-30	<u>-50</u>	-30
H PARABOLA	-13	Adjustment	17	<u>10</u>	-5	18	<u>10</u>	18
H SYMMETRY	13	Fixed	13	13	13	13	13	13
H CORNER	15	Adjustment	69	<u>-13</u>	25	-34	<u>-13</u>	-34
H SHIFT	4		13	<u>20</u>	-20	-6	<u>20</u>	-6
PIP CONTRAST	15	Fixed	-	-	15	10	-	10
PIP TINT	0	Fixed	-	-	0	0	-	0
PIP PAL V.POS	12	Fixed	-	-	12	12	-	12
PIP NTSC V.POS	10	Fixed	-	-	10	10	-	10
PIP H.POS	15	Fixed	-	-	15	15	-	15

4-8-2(B) SCREEN CHANGE (I2C BUS GEOMETRIC ADJUSTMENT)

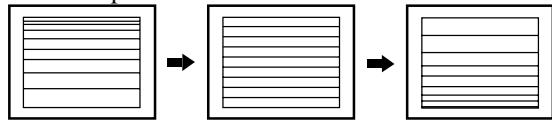
1 V Shift



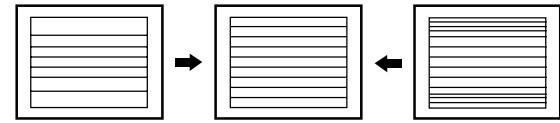
6 V Amp



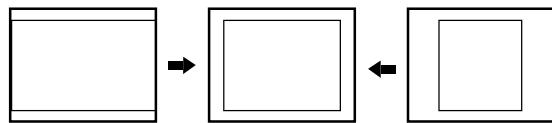
2 V Slope



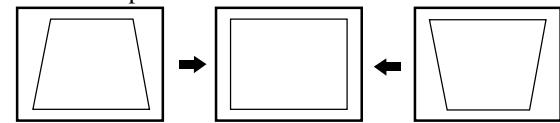
7 V SC



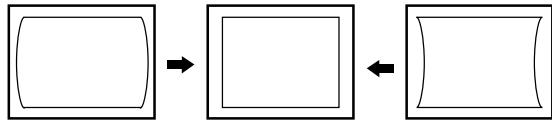
3 H EW



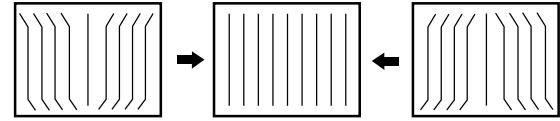
8 H Trapizium



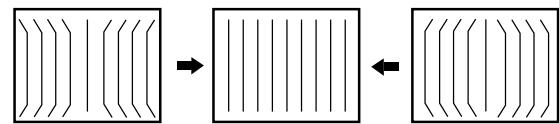
4 H Parabola



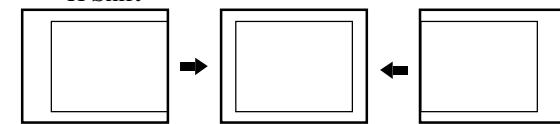
9 H Symmetry



5 H Corner

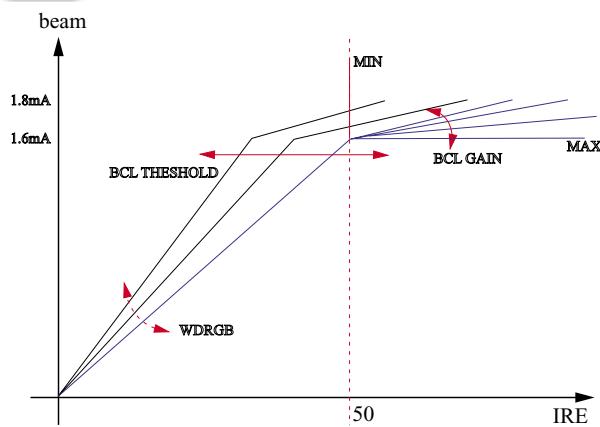


10 H Shift



4-8-2(C) VIDEO ADJUST 1

VIDEO ADJUST1	Initial Value	Adjustment Value	SAM2540 SAM2740	TXK3276	CL29A6	TXK3279	TXK3676	TXK3679
RED CUT OFF	127	Adjustment	127	127	127	127	127	127
GREEN CUT OFF	127	Fixed	127	127	127	127	127	127
BLUE CUT OFF	127	Adjustment	127	127	127	127	127	127
RED DRIVE	127	Adjustment	127	127	127	127	127	127
GREEN DRIVE	127	Fixed	127	127	127	127	127	127
BLUE DRIVE	127	Adjustment	127	127	127	127	127	127
SUB BRIGHT	110	Adjustment	100	100	100	100	100	100
SUB CONTRAST	52	Adjustment	52	52	52	52	52	52
SUB COLOR	27	Fixed	50	50	50	50	50	50
SUB TINT	30	Fixed	70	70	40	70	70	70
BCL THRESHOLD	62	Fixed	58	58	65	60	58	60
BCLGAIN	8	Fixed	8	8	8	9	8	9
BCL TIME	13	Fixed	10	10	6	5	10	5
DVD SUBTint		Fixed			25	25		25
N. YC DELAY	0		3	3	3	3	3	3

Note 3. Beam Control Limit Characteristic**Table 1. YC Delay Adjustment Table**

N.YC Delay	NTSC	
	Def.	M
Value	4	3

✓ The "Def." means that TV is in AV mode.

4-8-2(D) VIDEO 2 ADJUST

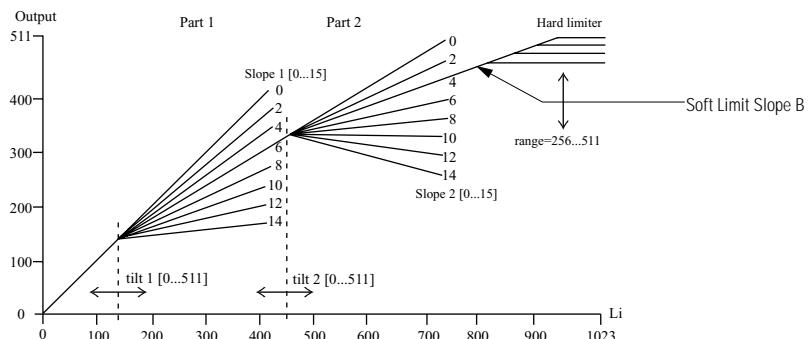
VIDEO ADJUST2	Initial Value	Adjustment Value	SAM2540 SAM2740	TXK3276	CL29A6	TXK3279	TXK3676	TXK3679
B STRETCH-BTHR	50	Fixed	50	50	50	50	50	50
B DTRETCH-BTLT	8	Fixed	8	8	8	8	8	8
B STERTCH-BAM	4	Fixed	4	4	4	4	4	4
CORING	31	Fixed	31	31	31	31	31	31
NTSC COMB FILTER	1		1	1	3	3	1	3
RGB BRIGHT	0	Fixed	0	<u>45</u>	<u>0</u>	<u>45</u>	<u>45</u>	<u>45</u>
RG B CONTRAST	0	Fixed	0	<u>15</u>	<u>0</u>	<u>15</u>	<u>15</u>	<u>15</u>
EHT TIME	0	Fixed	0	0	3	8	0	8
EHT COMPENSATION	60	Fixed	60	60	60	60	60	60
DTI CORING		Fixed	0	0	0	0	0	0
DTI GAIN		Fixed	1	1	1	1	1	1
DTI BAND		Fixed	1	1	1	1	1	1
EHT Offset	0	Fixed	-	-	0	0	-	0
EHT Horizontal	0	Fixed	-	-	0	0	-	0

✓ Coring : The Value of Center Frequency for the active bandwidth.

4-8-2(E) VIDEO 3 ADJUST

VIDEO ADJUST3	Initial Value	Adjustment Value	SAM2540 SAM2740	TXK3276	CL29A6	TXK3279	TXK3676	TXK3679
PEAK Threshold	255	Fixed	255	255	255	255	255	255
SOFT LIMIT SLOPE B	4	Fixed	4	4	4	4	4	4
HARD LIMIT	255	Fixed	255	255	255	255	255	255
MODULATION ON/OFF	0	Fixed	0	0	0	0	0	0
A TILT POINT	0	Fixed	0	0	0	0	0	0
B TILT POINT	0	Fixed	114	114	114	114	114	114
GAIN 1 (VIDEO)		Fixed	11	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>
DELAY 1 (VIDEO)		Fixed	3	3	3	3	3	3
PEAK VIDEO REF		Fixed	0	0	0	0	0	0
PEAK VIDEO GAIN		Fixed	0	0	0	0	0	0
LIMIT VALUE		Fixed	74	74	127	74	74	74
VELOCITY DELAY		Fixed	7	7	7	7	7	7
VELOCITY CORING		Fixed	10	10	2	10	10	10
ACC-REF	20	Fixed	20	20	20	20	20	20
ACCR	21	Fixed	21	21	21	21	21	21

Note 5. Soft Limit & Hard Limit



✓ "Soft Limit" is that Limiting the peak white without feed-back, but "Peak Limit" is that with feed-back for white peak level

4-8-2(F) OPTION

	Model	CL29A6	SAM2540 SAM2740	TXK3276 TXK3676	TXK3279 TXK3679	TXK3279 TXK3679
No.	Description	Initial Value	Initial Value	Initial Value	Initial Value	Initial Value
1	SYSTEM	CN(EN+SP+PO)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)	CT(EN+SP+FR)
2	ACS(CT, CTA)	OFF	ON	ON	ON	OFF
3	SOUND	VIRTUAL DOLBY	STEREO	STEREO	VIRTUAL DOLBY	VIRTUAL DOLBY
4	CRT	4:3	4:3	4:3	4:3	4:3
5	AV MODE(V,Y)	2RCA + S + D	1RCA	2RCA +S	2RCA +S+D	2RCA +S+D
6	AUDIO MUTE	ON	ON	ON	ON	ON
7	X-RAY	OFF	ON	ON	ON	ON
8	VIDEO-MUTE	ON	OFF	OFF	OFF	ON
9	TILT CONTROL	ON	OFF	OFF	OFF	ON
10	GAME+DEMO(CN)	ON	OFF	OFF	OFF	OFF
11	LNA	ON	OFF	OFF	OFF	ON
12	PIP	2-TUNER	OFF	OFF	2-TUNER	2-TUNER
13	VCHIP(CT,CTA)	OFF	ON	ON	ON	OFF
14	BLUE SCREEN	ON	OFF	OFF	OFF	ON
15	AKB	ON	OFF	OFF	OFF	ON
16	AUTO POWER ON	OFF	OFF	OFF	OFF	OFF
17	HOTEL	OFF	-	-	-	OFF
Option Byte		04 DE 12 1C	01 01 80 09	01 01 88 09	04 01 92 09	

Note 6.

V-DOLBY	MSP3451G, MSP3440GB6
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4-8-2(G) OTHERS

OTHERS	Initial Value	Adjustment Value	SAM2540 SAM2740	TXK3276	CL29A6	TXK3279	TXK3676	TXK3679
VSU	108	Fixed	105	<u>105</u>	<u>98</u>	<u>108</u>	<u>105</u>	<u>108</u>
VSU2			0	0	0	0	0	0
H QEW	0	Fixed	0	0	0	0	0	0
H ZOOM Parabola	8	Fixed	8	8	12	12	0	0
H 16:9 Parabola	-10	Fixed	-18	-18	-19	-19	0	0
DVD Tint Control	0	Fixed	0	0	1	1	0	0
PAL V SHIFT		Fixed	-29	-29	-66	-62	-29	-20
PAL H SHIFT		Fixed	18	18	-15	-1	18	-3
Melidy Volume	5	Fixed	7	7	7	7	7	7
PIP BRIGHT		Fixed			3	5		5
PIP COLOR		Fixed			7	7		7

4-8-2(G) G2 ADJUST

G2 Adjust	Initial Value	Adjustment Value	SAM2540 SAM2740	TXK3276	CL29A6	TXK3279	TXK3676	TXK3679
MRC R G B								
MRWDG								
IBRM	-10	FIX	200	<u>195</u>	<u>200</u>	<u>195</u>	<u>195</u>	<u>195</u>
WDRV	0	FIX	35	35	35	35	35	35
CDL		FIX	150	<u>170</u>	<u>200</u>	<u>170</u>	<u>170</u>	<u>170</u>
COL		FIX	130	130	120	130	130	130
VDP Version			B	B	Y	Y	B	Y
WHITE BALANCE	H	275,295,35	275,295,28	275,295,50	275,295,28	275,295,28	275,295,28	275,295,28
	L	275,295,1.2	275,295,1.0	275,295,1.5	275,295,1.0	275,295,1.0	275,295,1.0	275,295,1.0

4-9 MICOM

4-9-1 Pin Layout

Write Protect	←	1	I/O	PWM	52	← Tilt
EEPROM SDA	↔	2	I/O		51	N.C.
EEPROM SCL	↔	3	IO	I/O	50	← Power
Bus-Stop	←	4	I/O	I/O	49	← Sound Mute
Main SDA	↔	5	I/O		48	N.C.
Main SCL	↔	6	I/O		47	N.C.
Sound Reset	←	7	I/O		46	PX. Y
Video Reset	←	8	I/O		45	PX. Y
VDD 2.5V		9			44	VDD 3.3V
GND		10			43	GND
VDD 3.3V		11			42	VDD 2.5V
CVBS Input	→	12			41	→ CORE
VDD 2.5V		13			40	→ OSD-B
GND		14			39	→ OSD-G
AFT	→	15	ADC		38	→ OSD-R
AV1 Ident	→	16	ADC		37	VDD 2.5V
AV2 Ident	→	17	ADC		36	GND
Key 1	→	18	ADC		35	← X-TAL Out
H-Sync	→	19			34	← X-TAL In
V-Sync	→	20			33	← MICOM Reset
Key 3	→	21	I/O		32	N.C.
Key 2	→	22	I/O		31	N.C.
X-Ray Protect	→	23	I/O		30	VDD 3.3V
IR Input	→	24	I/O		29	GND
Stand-By LED	←	25	I/O		28	N.C.
Time LED	←	26	I/O	I/O	27	→ Relay

SIM408AY

4-9-2 Pin Assignment Specification

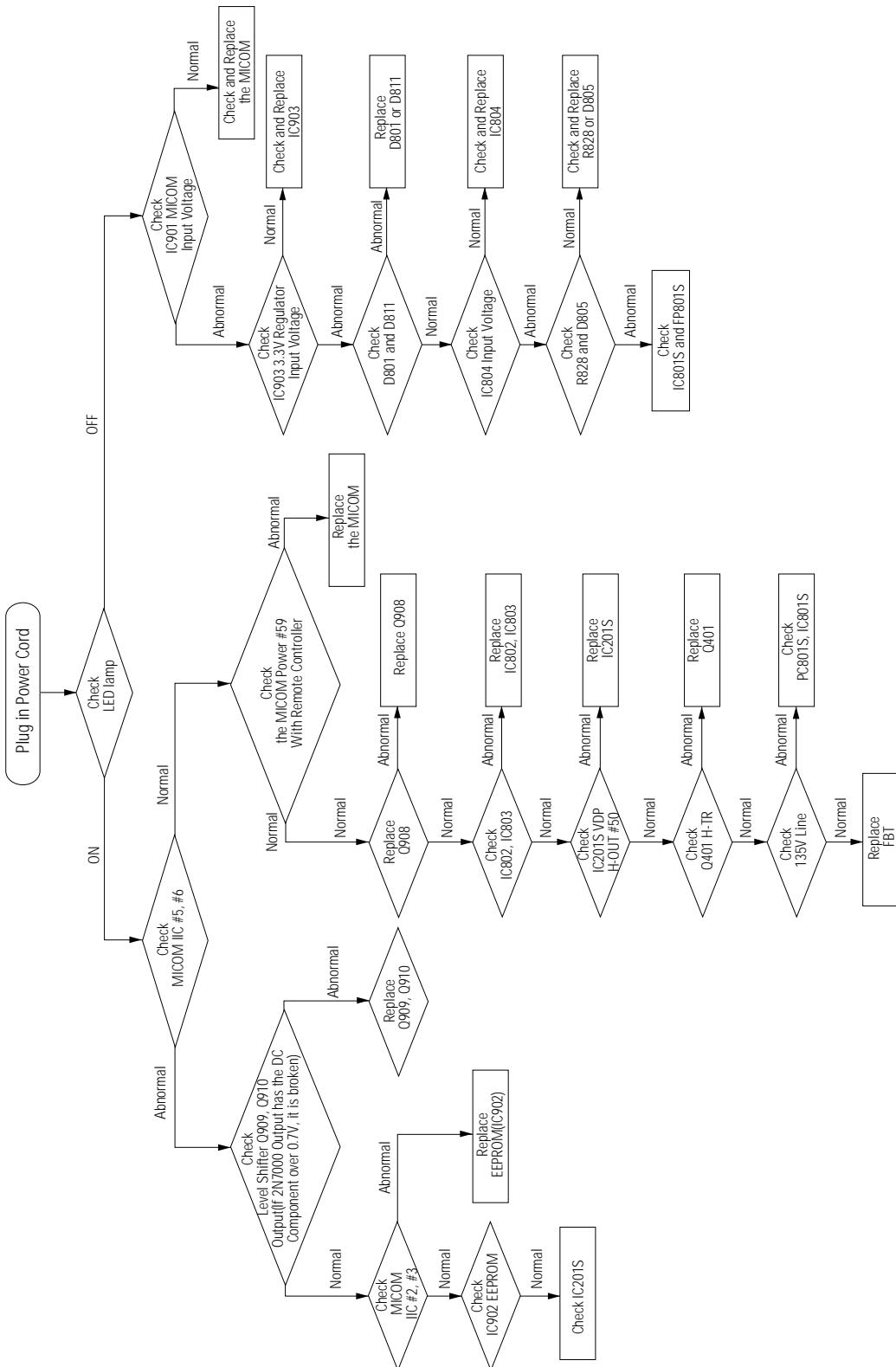
PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
1	I/O	Write Protect	Out	Low	EEPROM Write Protection
2	I/O	ROM SDA	I/O		EEPROM Serial Data Line
3	I/O	ROM SCL	I/O		EEPROM Serial Clock Line
4	I/O	Bus Stop	In	Low	Disable Micom IIC
5	I/O	Main SDA	I/O		Peripheral IC Serial Data Line
6	I/O	Main SCL	I/O	Low	Peripheral IC Serial Clock Line
7	I/O	Sound Reset	Out	Low	MSP IC Initial Control
8	I/O	Video Reset	Out		VDP IC Initial Control
9	Vdd	VDD 2.5V			
10	GND				
11	Vdd	VDD 3.3V			
12	CVBS	CVBS Input	In		TTX CVBS Input
13	Vdd	VDD 2.5V			Analog B+
14	GND				Analog Ground
15	ADC	AFT	In		Auto Fine Tuning Control
16	ADC	AV1-ID	In		AV1 Ident
17	ADC	AV2-ID	In		AV2 Ident
18	ADC	Key1	In		Key1 Input
19	HS	H-Sync	In		Horizontal Sync Input
20	VS	V-Sync	In		Vertical Sync Input
21	I/O	Key3	In		Key3 Input
22	I/O	Key2	In		Key2 Input
23	I/O	X-Ray	In		X-Ray Protection
24	I/O	IR-In	In		Remocon Signal Input
25	I/O	STD-LED	Out		LED Drive Output(Red)
26	I/O	TIM-LED	Out		LED Drive Output(Green)

4-9-2 Pin Assignment Specification (Continued)

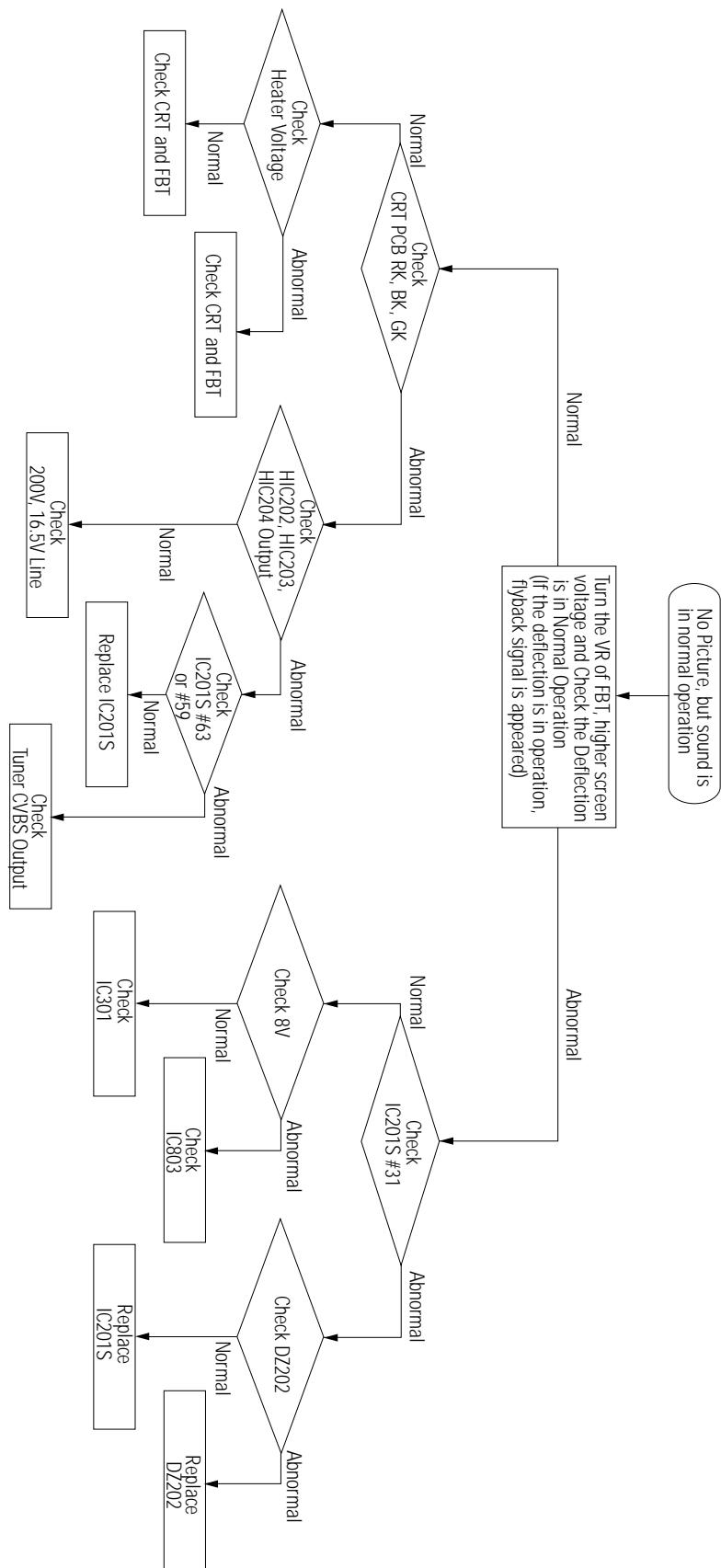
PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
27	I/O	Relay	Out	Low	Activate Degaussing Coil
28	N.C.				Not Used (Programmed Ground Level)
29	GND				Analog Ground
30	Vdd	VDD 3.3V			Not Used (Programmed Ground Level)
31	N.C.				Not Used (Programmed Ground Level)
32	N.C.				Micom Hardware Reset
33	Reset	Reset	In	Low	Crystal Oscillation Input
34	X-In	X-TAL In	In	6MHz	Crystal Oscillation Output
35	X-Out	X-TAL Out	Out	6MHz	Analog Ground
36	GND				Analog B+
37	Vdd	VDD 2.5V			OSD/Caption Output (Red)
38	R	OSD-R	Out		OSD/Caption Output (Green)
39	G	OSD-G	Out		OSD/Caption Output (Blue)
40	B	OSD-B	Out		Fast Blank/Half Contrast Output
41	COR	CORE	Out		
42	Vdd	VDD 2.5V			
43	GND				
44	Vdd	VDD 3.3V			
45	I/O	PX.Y	In		When The Caption Function Adopted, Used.
46	I/O	PX.Y	Out		
47	N.C.				Not Used (Programmed Ground Level)
48	N.C.				
49	I/O	S-Mute	Out	High	Sound Amp Mute
50	I/O	Power	Out	Low	Picture On/Off Control
51	N.C.				Not Used (Programmed Ground Level)
52	I/O	Tilt	Out	PWM	Tilt Control Output

5. Troubleshooting

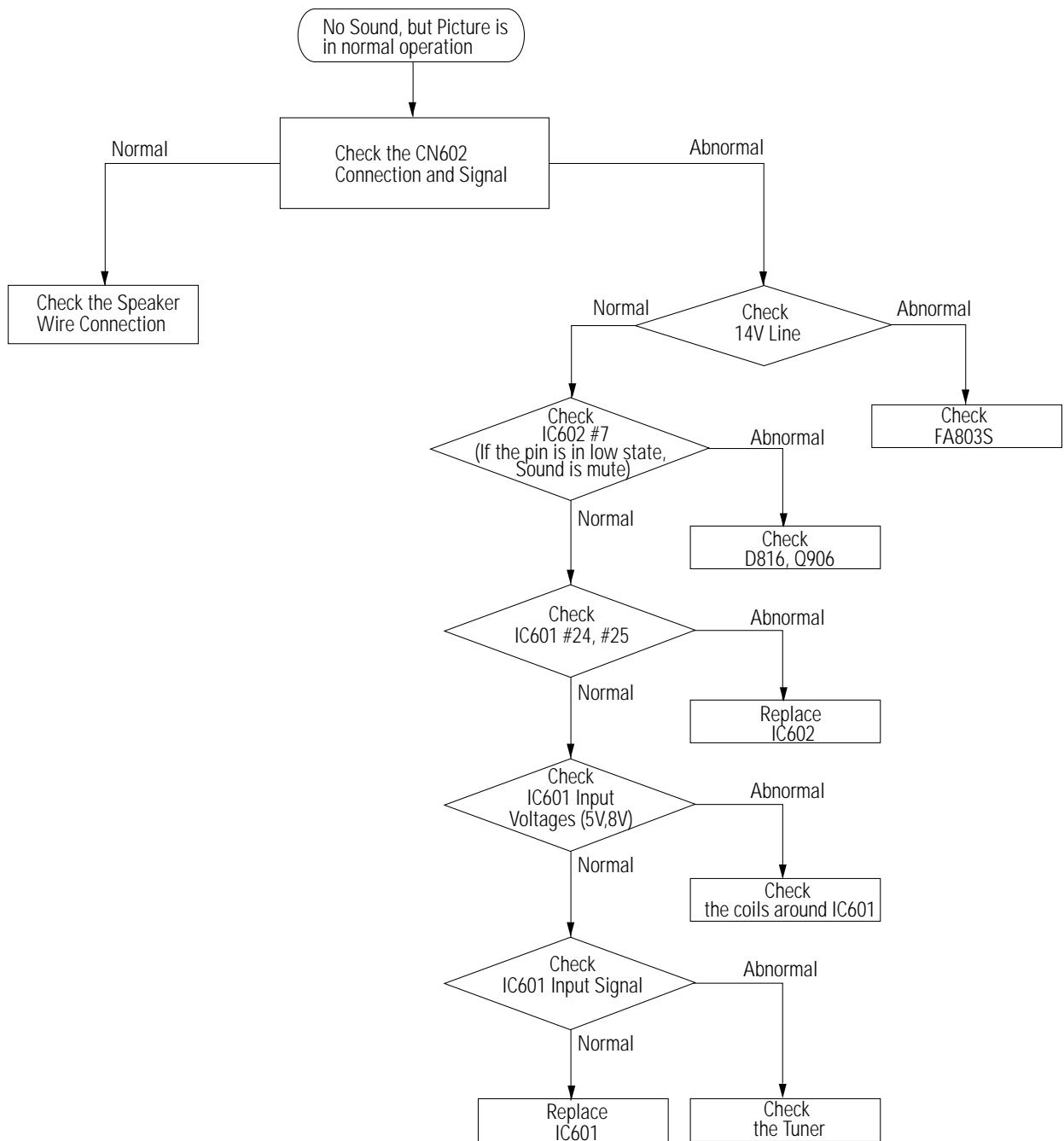
5-1 No Power



5-2 No Picture



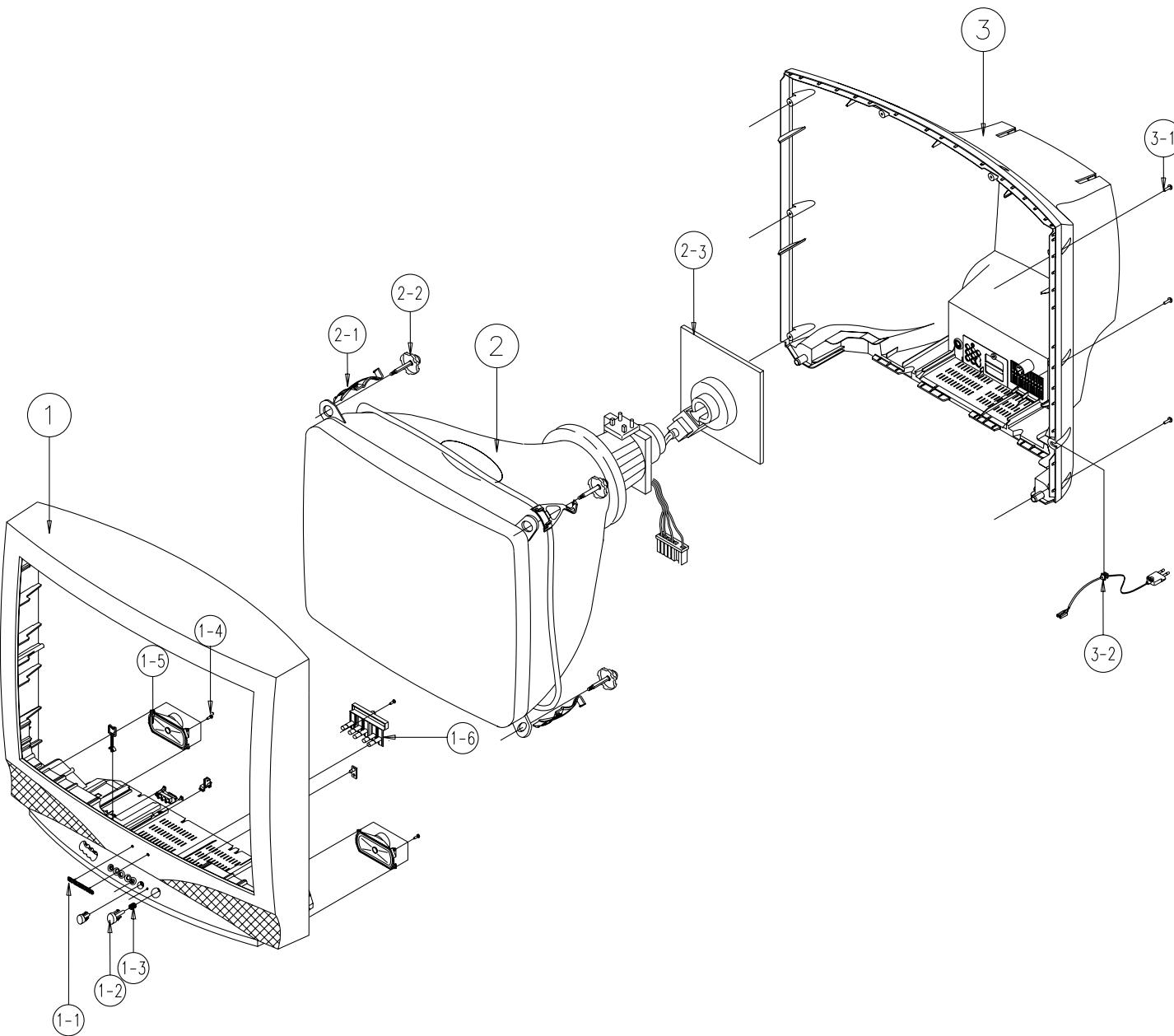
5-3 No Sound



MEMO

6. Exploded View & Parts List

6-1 TXK3279C



No	Code No	Description	Specification	Q'ty	Remark
1	AA64-00885A	CABINET FRONT	;TOOL,34D3-1,MOLD,-,-,-,-	1	
1-1	AA64-70124C	BADGE-BRAND	;AL,R2500,SILVER,L=70,SAMSUNG	1	
1-2	AA64-00352A	KNOB-POWER	;TOOL,37D3,MOLD,-,-,-	1	
1-3	AA61-60003J	SPRING-CS	;-,SUS304,0.5,OD6,H12,N7,-,-,-	1	
1-4	6003-001019	SCREW-TAPITIE	;RH,+,B,M4,L12,ZPC(BLK),SWR	8	
1-5	3001-001115	SPEAKER	;15W,8ohm,93dB,110	2	
1-6	AA64-00353A	KNOB-CONTROL	;TOOL,37D3,MOLD,-,-,-	1	
2	AA03-00131A	CRT COLOR	;A81AGZ50X07,-,34INCH,-,-,-,1.2	1	
2-1	AA65-30113A	CLAMP-D,COIL	;NYLON 66,V2,BLK,TVI 25-29,-	4	
2-2	AA60-10050V	SCREW-ASSY	;WC,HH,+,M6,L30,SWRCH18A,ZPC(S	4	
2-3	3704-000114	SOCKET-CRT	;14P,29.1,35.5,SN,ISH09S/BK	1	
3	AA64-00886A	CABINET BACK	;TOOL,34D3-1,MOLD,-,-,-,-	1	
3-1	AA60-10050T	SCREW-TAPPING	;RH,+,2S,M4,L20,ZPC(BLK),SW	8	
3-2	AA39-10007Y	POWER-CORD	;-,EP2/YES,SPT-2 18AWGx2C,2.4m	1	

7. Electrical Parts List

7-1 TXK3279C/XAA

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
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ASSY PCB CHASSISPACK

1		*	AA93-00058BASSY PCB CHASSISPACK,-,KS3A,TXK3279C/XAA		...4	CNP02	3711-002706	CONNECTOR-HEADER:NOWALL,8P1R,2.5mm,ANGL	
.2		AA94-02674B	ASSY PCB MAIN(OPT);TXK3279C/XAA,KS3A,USA		...4	CP01	2203-000802	C-CERAMIC,CHIP:33nF,10%,50V,X7R,TP2012	
		AA94-02674F	ASSY PCB MAIN(OPT);TXK3279C/XAC,KS3A,CANADA,-		...4	CP02	2203-000818	C-CERAMIC,CHIP:0.033nF,5%,50VNPO,TP201	
.3	C407	2301-001338	C-FILM,MPE-PPF:0.68nF,5%,1.6KV,TP,28x7x1		...4	CP03	2203-000818	C-CERAMIC,CHIP:0.033nF,5%,50VNPO,TP201	
.3	C803	2401-001652	C-AL:680uF,20%,250V,GPBK,25x50mm,1		...4	CP04	2203-000218	C-CERAMIC,CHIP:100nF,20%,50V,Y5V,TP,2012	
.3	C820	2401-003076	C-AL:3300uF,20%,50V,WP,BK,18x35.5mm		...4	CP05	2404-000123	C-TA,CHIP:10uF,20%,16V,-,TP6032,2.9mm	
.3	CABLE	AA39-30007B	IF-CABLE,-,T,150mm,1365#26		...4	CP06	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012	
△ .3	D801S	AA96-00276A	ASSY H/S,-,BRIDGE,AA62-00052A,RBV606,W/A 6003-000335 SCREW-TAPITITE:RH,+,2S,M3,L8,ZPC(YEL),SWR	S.N.A	...4	CP07	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012	
		AA62-00052A HEAT SINK-PS,-,-,SILVER,HOLE 18.5mm, 2	S.N.A	...4	CP08	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012		
		AA60-30003A WASHER,-,-,T1.5,-,SBHG-1,-	S.N.A	...4	CP09	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012		
		0402-000549 DIODE-BRIDGE:RBV606,600V,6A,-,BK	S.N.A	...4	CP10	2404-000123	C-TA,CHIP:10uF,20%,16V,-,TP6032,2.9mm		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	CP11	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012		
△ .3	HC401	AA96-00275A	ASSY H/S,-,COMPLEX,AA62-00051A,KSD5703, 6003-000333 SCREW-TAPITITE:RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	...4	CP12	2404-000151	C-TA,CHIP:1uF,20%,16V,-,TP,3216,-	
		AA60-30001A WASHER-PLATE,M3,I3.5,15X8.5,T1.0,-,SBHG	S.N.A	...4	CP13	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012		
		AA62-00051A HEAT SINK-PS,-,-,SILVER,HOLE 31mm,ALL	S.N.A	...4	CP14	2404-000123	C-TA,CHIP:10uF,20%,16V,-,TP6032,2.9mm		
		0502-001136 TR-POWER:KSD5703,NPN,70W,TO-3PF,ST-8	S.N.A	...4	CP15	2203-000218	C-CERAMIC,CHIP:100nF,20%,50V,Y5V,TP,2012		
		0402-001296 DIODE-RECTIFIER:FMP-3FU,1.5KV,5A,TO-3PF,	S.N.A	...4	CP16	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	CP17	2404-000167	C-TA,CHIP:2,2U,20%,16V,-,TP,3216,-		
△ .3	HC801	AA96-00353A	ASSY H/S,-,POWER,AA62-00066A,FML-G12S + AA62-00066A HEAT SINK-PS,-,AL1.0,T1.0,SILVER,-,-,NATURA	S.N.A	...4	CP18	2203-000260	C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP2012	
		6003-000334 SCREW-TAPITITE:RH,+,2S,M3,L6,ZPC(YEL),SW	S.N.A	...4	CP19	2404-000167	C-TA,CHIP:2,2U,20%,16V,-,TP,3216,-		
		1203-001006 IC-VOLTAGE REGULATOR:78R05,TO-220,4P,-	S.N.A	...4	CP20	2404-000160	C-TA,CHIP:1uF,20%,50V,GPT,TP6032		
		0402-001230 DIODE-RECTIFIER:FMG-G2CS,1000V,3A,TO-220	S.N.A	...4	CP21	2404-000160	C-TA,CHIP:1uF,20%,50V,GPT,TP6032		
		0402-000233 DIODE-RECTIFIER: FML-G12S,200V,5A,-,-	S.N.A	...4	CP23	2404-000275	C-TA,CHIP:100uF,10%,10V,GPT,TP7343		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	CP24	2203-000218	C-CERAMIC,CHIP:100nF,20%,50V,Y5V,TP,2012		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	CP25	2404-000275	C-TA,CHIP:100uF,10%,10V,GPT,TP7343		
△ .3	HC801	AA96-00353A	ASSY H/S,-,POWER,AA62-00066A,FML-G12S + AA62-00066A HEAT SINK-PS,-,AL1.0,T1.0,SILVER,-,-,NATURA	S.N.A	...4	DP01	0401-000133	DIODE-SWITCHING:RLS4148,100V,200mA,SOD-8	
		6003-000334 SCREW-TAPITITE:RH,+,2S,M3,L6,ZPC(YEL),SW	S.N.A	...4	DP02	0401-000133	DIODE-SWITCHING:RLS4148,100V,200mA,SOD-8		
		1201-001064 IC-POWER AMP:7297,ZIP,15P,-,DUAL,32DB,PL	S.N.A	...4	DP03	0401-000133	DIODE-SWITCHING:RLS4148,100V,200mA,SOD-8		
		6003-000333 SCREW-TAPITITE:RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	...4	DP04	0401-000133	DIODE-SWITCHING:RLS4148,100V,200mA,SOD-8		
		AA62-30180B HEAT SINK-ES,-,A6063 EXTR.,2,WHT,70MM,-	S.N.A	...4	DZP01	0403-000620	DIODE-ZENER:RLZ5.6B,5.6V,5.45-5.73V,400m		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	DZP02	0403-000620	DIODE-ZENER:RLZ5.6B,5.6V,5.45-5.73V,400m		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	DZP03	0403-000689	DIODE-ZENER:DTZ5.1A,5.1V,4.84-5.04V,200m		
△ .3	IC202	1203-001944	IC-POS,FIXED REG:78RM33,TO-220,3P,-,PL		...4	HCP01	AA61-10068A	BRACKET-PCB,-,M2160,SPTE,T0.3,-,-	S.N.A
△ .3	IC301	AA96-50381A	ASSY-H/S,-,AA62-30180B,LA7845,- 0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	△ .4	ICP01	1204-001396	IC-PICTURE PROCESS:SDA9388X,SOP28P,-,PL	
		1204-001517 IC-VERTICAL DEF:LA7845,SP17,P,-,PLASTIC	S.N.A	...4	LP01	2701-000197	INDUCTOR-AXIAL:5.6uH,10%,2.5x3.4mm		
		6003-000333 SCREW-TAPITITE:RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	...4	LP02	2703-000392	INDUCTOR-SMD:10uH,5%,4.5x3.2x2.2mm		
		AA62-30180B HEAT SINK-ES,-,A6063 EXTR.,2,WHT,70MM,-	S.N.A	...4	LP03	2703-000392	INDUCTOR-SMD:10uH,5%,4.5x3.2x2.2mm		
△ .3	IC601	1204-001737	IC-SOUND PROCESSOR:MSP3451G-A1,DIP,52P		...4	PCB	AA41-002212	PCB-HAC:CS29A6PF8X,FR,4,2L,B,1.6,180x2	
△ .3	IC602	AA96-50369B	ASSY-H/S,-,AA62-30181F,TD47297,- 0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	OP01	0501-000280	TR-SMALL SIGNAL:KSA1182,PNP,150mW,SOT-23	
		1201-001064 IC-POWER AMP:7297,ZIP,15P,-,DUAL,32DB,PL	S.N.A	...4	OP02	0501-000280	TR-SMALL SIGNAL:KSA1182,PNP,150mW,SOT-23		
		6003-000333 SCREW-TAPITITE:RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	...4	OP03	0501-000280	TR-SMALL SIGNAL:KSA1182,PNP,150mW,SOT-23		
		AA62-30181F HEAT SINK-ES,-,A6063 EXTR.,2,WHT,50MM,-	S.N.A	...4	OP04	0501-000344	TR-SMALL SIGNAL:KSC1623-G,NPN,200mW,SOT-23		
△ .3	IC801S	AA96-50371C	ASSY-H/S,-,AA62-30181H,KA31265R,- AA62-30181H HEAT SINK-ES,-,A6063 EXTR.,2,WHT,50MM,-	S.N.A	...4	OP06	0501-000344	TR-SMALL SIGNAL:KSC1623-G,NPN,200mW,SOT-23	
		AA61-10386A BRACKET-IC,-,SECC 100,T1.0,-,KA2S0680	S.N.A	...4	OP07	0501-000344	TR-SMALL SIGNAL:KSC1623-G,NPN,200mW,SOT-23		
		6003-000333 SCREW-TAPITITE:RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	...4	RP01	2007-000290	R-CHIP:1000HM,5%,1/10W,DA,TP2012		
		1203-001482 IC-PWM CONTROLLER:3S1265R,TO-3P5P,210,P	S.N.A	...4	RP02	2007-000290	R-CHIP:1000HM,5%,1/10W,DA,TP2012		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	RP03	2007-000448	R-CHIP:1KOHM,5%,1/10W,DA,TP2012		
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	RP04	2007-000448	R-CHIP:1KOHM,5%,1/10W,DA,TP2012		
△ .3	IC804	AA96-00243C	ASSY H/S,-,REGULATOR,AA62-00045A,KA7806	S.N.A	...4	RP05	2007-000448	R-CHIP:1KOHM,5%,1/10W,DA,TP2012	
		0205-000129 GREASE-SILICON:SC102,JAPAN	S.N.A	...4	RP06	2007-000872	R-CHIP:4.7KOHM,5%,1/10W,DA,TP2012		
		1203-000284 IC-POS,FIXED REG:7806,TO-220,3P,-,PLAS	S.N.A	...4	RP07	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP2012		
		6003-000335 SCREW-TAPITITE:RH,+,2S,M3,L8,ZPC(YEL),SW	S.N.A	...4	RP12	2007-000290	R-CHIP:1000HM,5%,1/10W,DA,TP2012		
		AA62-00045A HEAT SINK-PS,-,T1.0,-,DREAM,-,-,-	S.N.A	...4	RP13	2007-000290	R-CHIP:1000HM,5%,1/10W,DA,TP2012		
△ .3	IC901	AA09-00041A	IC-MCU:SDA555X-OTP,SDA555X-OTP,-,52		...4	RP14	2007-000290	R-CHIP:1000HM,5%,1/10W,DA,TP2012	
△ .3	IC903	1203-001944	IC-POS,FIXED REG:78RM33,TO-220,3P,-,PL		...4	RP15	2007-000344	R-CHIP:10HM,5%,1/8W,DA,TP,3216	
	J202	2401-000471	C-AL:10uF,20%,50V,BP,TP5x11.5mm		...4	RP20	2007-000029	R-CHIP:00HM,5%,1/10W,DA,TP,2012	
	JA701	3722-001333	JACK-RCA:9P,3.2mm,NI,BLK,-		...4	RP21	2007-000872	R-CHIP:4.7KOHM,5%,1/10W,DA,TP2012	
	JA702	3722-001423	JACK-RCA:3P+S1P,3.4mm,NI,BLK,-		...4	RP22	2007-000872	R-CHIP:4.7KOHM,5%,1/10W,DA,TP2012	
	L402	AA27-00067A	COIL HORIZ. WIDTH:-,240uH,YL9N 12x20 C:6		...4	RP23	2007-000030	R-CHIP:5600HM,5%,1/10W,DA,TP2012	
△ .3	T444S	AA26-00059A	TRANS-FBT,-,FUH-34A001B(S),34/37,130V		...4	RP24	2007-000030	R-CHIP:5600HM,5%,1/10W,DA,TP2012	
△ .3	T801S	AA26-00044C	TRANS SWITCHING,CODE-NO,CT-21A8,-,AC90-2		...4	RP25	2007-000938	R-CHIP:4.7KOHM,1%,1/10W,DA,TP2012	
	TUBE	AA39-00108A	LEAD CONNECTOR-ASSY,-,-,-,-,-,GR		...4	RP26	2007-000941	R-CHIP:4.7KOHM,5%,1/10W,DA,TP2012	
	WIRE	AA39-00046E	LEAD CONNECTOR-ASSY,-,-,-,-,-,JU		...4	RP27	2007-000030	R-CHIP:5600HM,5%,1/10W,DA,TP2012	
		AA65-30104B CLAMP-WIRE:NYLON 66,V2,BLK,W2,Z5,ALL MOD		...4	RP28	2007-000030	R-CHIP:5600HM,5%,1/10W,DA,TP2012		
		AA95-00828A ASSY-PCB PIP,DP,TXK3279C,KS3A,NTSC,-,-		...4	RP29	2007-000941	R-CHIP:4.7KOHM,5%,1/10W,DA,TP2012		
		CNP01 3711-002709 CONNECTOR-HEADER:NOWALL,12P1R,2.5MM,ANG		...4	RP30	2007-000941	R-CHIP:4.7KOHM,5%,1/10W,DA,TP2012		
				...4	RP31	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP2012		

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	RP32	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP2012		....5	C219	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	RP33	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012		....5	C220	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	RP34	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012		....5	C221	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	RP35	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012		....5	C222	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	RP36	2007-000468	R-CHIP:1KOHM,5%,1/10W,DA,TP,2012		....5	C223	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	RP40	2007-000029	R-CHIP:0OHM,5%,1/10W,DA,TP,2012		....5	C224	2201-002031	C-CERAMIC,DISC:0.005nF,0.5pF,50V,NP0,TP	
....4	RP41	2007-000029	R-CHIP:0OHM,5%,1/10W,DA,TP,2012		....5	C225	2201-002031	C-CERAMIC,DISC:0.005nF,0.5pF,50V,NP0,TP	
....4	RP50	2007-001201	R-CHIP:8200HM,5%,1/10W,DA,TP,2012		....5	C228	2301-000356	C-FILM,PEF:47nF,5%,50V,TP,7.5x4.0x6.5,5m	
....4	XP01	2801-000214	CRYSTAL-UNIT:27MHz,40ppm,28-AAM,S,40ohm,		....5	C229	2401-002619	C-AL:47uF,20%,25V,GPT,TP5x11,5	
....4		0202-001004	SOLDER-CREAM:SQ-2030M SZH-1,S63A,D0.04,6	S.N.A	....5	C230	2301-000356	C-FILM,PEF:47nF,5%,50V,TP,7.5x4.0x6.5,5m	
....4		0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A	....5	C231	2401-002235	C-AL:10uF,20%,16V,GPT,TP5x11mm,5mm	
....3		AA39-00046E	LEAD CONNECTOR-ASSY:-,-,-,-,JU		....5	C232	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....3		AA98-00053A	ASSY SUB PART:KS3A,MAIN(OPT),PAL,-	S.N.A	....5	C233	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm	
....4		0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A	....5	C234	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm	
....3		AA99-30182R	ASSY-PCB ROBOT: AA94-02674B ,ER	S.N.A	....5	C235	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm	
....4	C405	2306-000330	C-FILM,MPPF:7.7nF,3%,1.6KV,TP29x18.5x		....5	C236	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm	
....4	C406	2306-000322	C-FILM,MPPF:12nF,5%,1.6KV,TP29x20.5x13,		....5	C237	2401-000914	C-AL:22uF,20%,16V,GPT,TP5x11,5	
....4	C423	2301-001193	C-FILM,MPPF:1uF,5%,400V,TP31x17x25.20		....5	C238	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	C426	2301-001192	C-FILM,MPPF:820nF,5%,400V,TP29x18.5x25.		....5	C239	2401-000444	C-AL:10uF,20%,25V,GPT,TP5x5mm,5mm	
....4	C815	2401-003026	C-AL:330uF,20%,200V,GPST,22x35,10		....5	C240	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	CN501	3711-002641	CONNECTOR-HEADER BOX:10P,1R,2.54mm,STRAI		....5	C241	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
△	....4	CX801S	2306-000318	C-FILM,MPPF:220nF,20%,250V,TP,-,22.5mm	....5	C244	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
△	....4	CX802S	2306-000318	C-FILM,MPPF:220nF,20%,250V,TP,-,22.5mm	....5	C245	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
△	....4	CY802S	2201-000446	C-CERAMIC,DISC:3.3nF,20%,400V,Y5U,TP,15x	....5	C248	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
△	....4	FP801S	3601-001012	FUSE:250V,4A,SLOW-BLOW,GLASS,5.2x20	....5	C250	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
△	....4	IC201S	1204-001735	IC-VIDEO PROCESS:VDP3130-Y-B1,DIP,64P,760	....5	C251	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
△	....4	IC401	1202-000103	IC-VOLTAGE COMP:-,393,DIP,P8,300MIL,DUAL,	....5	C252	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
△	....4	IC803	1203-001697	IC-VOLTAGE REGULATOR:78R08,TO-220,4P,P	....5	C253	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
△	....4	IC902	1103-001171	IC-EEPROM:24L161,16KBIT,DIP,P8,300MIL,10	....5	C254	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	L403	AA27-00101A	COIL LINEARITY:58uH,58uH,DR14x15 C,6.0,1		....5	C301	2401-000603	C-AL:1uF,20%,50V,GP,TP,5x11,5	
....4	L405	AA27-00096A	COIL HORIZ. WIDTH:-,10.0mH,DR15 X 27.5,U		....5	C302	2401-000360	C-AL:100uF,20%,50V,GP,TP,8x11,5,5	
....4	L408	AA27-00095A	COIL HORIZ. WIDTH:-,600uH,YL9N,15x27.5,C		....5	C303	2201-002103	C-CERAMIC,DISC:0.015nF,5%,500V,NP0,TP,6	
....4	L808	AA27-00098A	COIL CHOKE:-,24uH,10%,0.1,3.0A,DR10X		....5	C304	2305-000285	C-FILM,MPEF:220nF,5%,100V,TP,10.5x5.5x15	
....4	LD901	AA96-00461A	ASSY LED GUIDE:-,SL-255D,RED/GRN		....5	C305	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5	
△	....4	LX801S	AA29-00012A	FILTER LINE NOISE:CS29A6P8X/HAC,-,0.1MA	....5	C306	2301-000342	C-FILM,PEF:2.2nF,5%,50V,TP,7.4x3.9x13mm,	
△	....4	LX802S	AA29-00012A	FILTER LINE NOISE:CS29A6P8X/HAC,-,0.1MA	....5	C307	2401-000360	C-AL:100uF,20%,50V,GP,TP,8x11,5,5	
△	....4	NT802S	1404-001045	THERMISTOR-NTC:4.70HM,15%,2900K,35.0MW,T	....5	C308	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm	
△	....4	PC801S	0604-001038	PHOTO-COUPLER:TR,130-260,200mW,DIP,4-ST	....5	C401	2201-000556	C-CERAMIC,DISC:0.47nF,5%,500V,Y5P,TP,5	
△	....4	PT801S	1404-000002	THERMISTOR-PTC:90hm,20%,-,TR,RECT,-	....5	C402	2401-001397	C-AL:470uF,20%,25V,GP,TP,10x16,5	
△	....4	RL801S	3501-001040	RELAY-POWER:12VDC,500mW,10A,1FormA,15ms,	....5	C403	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP,5	
....4	RM901	AA59-60001U	MODULE-REMOCON:-,ORC-50VF/SR-12V,38kHz,9		....5	C404	2401-001397	C-AL:470uF,20%,25V,GP,TP,10x16,5	
....4	SW906	3404-001004	SWITCH-TACT:12V,50mA,160GF,8.4x22.7mm,SP		....5	C408	2305-000382	C-FILM,MPEF:4.7nF,5%,400V,TP,-,5mm	
△	....4	T401	AA26-50001L	TRANS-HORIZ.DRIVE:-,29mH,133uH,4.5uH,E12	....5	C409	2301-001268	C-FILM,PPF:33nF,5%,630V,TP,20x11x17,7,7,5	
△	....4	TU01S	AA40-00020A	TUNER-F/S:TCLN3181PA09A(S),NTSC,TR,181CH	....5	C410	2301-000213	C-FILM,PEF:220nF,5%,250V,TP,21.5x1,7,7,5	
△	....4	TU02S	AA40-00032A	TUNER-F/S:TCPN3081PC09A(S),NTSC,TR,181CH	....5	C411	2301-000104	C-FILM,PEF:1.2nF,5%,50V,TP,6.5x3.0x5.5mm	
....4		AA99-10178D	ASSY-PCB MAIN,AUTO: AA99-30182R ,V		....5	C412	2301-000313	C-FILM,PEF:8.2nF,5%,100V,TP,7x3.2x7mm,5mm	
....5	C101	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....5	C413	2401-000493	C-AL:10uF,20%,50V,LZ,TP,5x11mm,5mm	
....5	C102	2401-001513	C-AL:47uF,20%,16V,W/T,TP,5x11,5		....5	C414	2401-002597	C-AL:220uF,20%,35V,GP,TP,10x12,5,5	
....5	C103	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....5	C415	2301-000445	C-FILM,PEF:4.7nF,5%,50V,TP,5x7x3mm,5mm	
....5	C104	2401-003578	C-AL:1000uF,20%,10V,GP,TP,8x20mm,5		....5	C416	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5	
....5	C105	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....5	C418	2401-002597	C-AL:220uF,20%,35V,GP,TP,10x12,5,5	
....5	C106	2401-000611	C-AL:1uF,20%,50V,W/T,TP,5x11,5		....5	C419	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP,5	
....5	C107	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....5	C420	2301-001065	C-FILM,MPPF:47nF,5%,630V,TP,19x15.5x7,7	
....5	C108	2401-001363	C-AL:470uF,20%,16V,GP,TP,10x12,5,5		....5	C421	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP,5	
....5	C111	2401-000603	C-AL:1uF,20%,50V,GP,TP,5x11,5		....5	C422	2401-001527	C-AL:47uF,20%,250V,HR,TP,13x25mm,5m	
....5	C112	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....5	C424	2201-000132	C-CERAMIC,DISC:0.1nF,10%,500V,Y5P,TP,6.5	
....5	C113	2200-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V		....5	C425	2301-001299	C-FILM,MPPF:100nF,5%,400V,TP,19x8x16,7,5	
....5	C115	2200-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP		....5	C427	2401-002268	C-AL:2.2uF,20%,250V,LZ,TP,8x11,1,5	
....5	C116	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP		....5	C601	2201-000558	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP,5x3	
....5	C201	2401-000603	C-AL:1uF,20%,50V,GP,TP,5x11,5		....5	C603	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm	
....5	C202	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm		....5	C604	2401-000603	C-AL:1uF,20%,50V,GP,TP,5x11,5	
....5	C203	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	C605	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....5	C204	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	C607	2202-00796	C-CERAMIC,MLC-AXIAL:1NF,10%,50V,Y5P,TP,3	
....5	C205	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm		....5	C608	2202-00796	C-CERAMIC,MLC-AXIAL:1NF,10%,50V,Y5P,TP,3	
....5	C206	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	C610	2301-000445	C-FILM,PEF:4.7nF,5%,50V,TP,5x7x3mm,5mm	
....5	C207	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm		....5	C611	2301-000445	C-FILM,PEF:4.7nF,5%,50V,TP,5x7x3mm,5mm	
....5	C208	2401-001026	C-AL:3.3UF,20%,50V,GP,TP,5x11,5		....5	C612	2401-001912	C-AL:1uF,20%,50V,BP,TP,5x11,5	
....5	C210	2401-000287	C-AL:100uF,20%,16V,W/T,TP,6.3x1,5		....5	C613	2401-001914	C-AL:1uF,20%,50V,BP,TP,5x11,5	
....5	C211	2202-000796	C-CERAMIC,MLC-AXIAL:1NF,10%,50V,Y5P,TP,3		....5	C617	2401-000493	C-AL:10uF,20%,50V,LZ,TP,5x11mm,5mm	
....5	C212	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5		....5	C620	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....5	C213	2301-000310	C-FILM,PEF:68nF,5%,50V,TP,8.0x8.5x4.0x5,		....5	C621	2401-002458	C-AL:1000uF,20%,35V,GP,TP,16x25,7,5	
....5	C214	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	C622	2401-001989	C-AL:4.7uF,20%,50V,BP,TP,5x11,5	
....5	C215	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm		....5	C623	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP	
....5	C216	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	C624	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP	
....5	C217	2401-001026	C-AL:3.3UF,20%,50V,GP,TP,5x11,5		....5	C625	2401-001989	C-AL:4.7uF,20%,50V,BP,TP,5x11,5	
....5	C218	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V		....5	C626	2401-001989	C-AL:4.7uF,20%,50V,BP,TP,5x11,5	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....5	C627	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	C917	2401-000493	C-AL:10uF,20%,50V,LZ,TP5x11mm,5mm	
....5	C628	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....5	C918	2401-001840	C-AL:100uF,20%,16V,GP,TP6.3x11,5	
....5	C629	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	C919	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....5	C630	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....5	C920	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm	
....5	C631	2401-002235	C-AL:10uF,20%,16V,GPT,TP5x11mm,5mm		....5	C921	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....5	C632	2202-000806	C-CERAMIC,MLC-AXIAL:220pF,10%,50V,Y5P,TP		....5	C922	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....5	C634	2401-001840	C-AL:100uF,20%,16V,GP,TP6.3x11,5		....5	CN502	3711-002646	CONNECTOR-HEADER:BOX,7P1R,2.5mm,STRAIGH	
....5	C635	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	CN602	3711-002644	CONNECTOR-HEADER:BOX,5P1R,2.5mm,STRAIGH	
....5	C636	2401-001026	C-AL:3.3uF,20%,50V,GP,TP5X11,5		....5	CN702	3711-002647	CONNECTOR-HEADER:BOX,8P1R,2.5mm,STRAIGH	
....5	C637	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		△....5	CR01S	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP,5	
....5	C638	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		△....5	CR02S	2401-002212	C-AL:10uF,20%,25V,WT,TP5x11,5	
....5	C639	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		△....5	CR03S	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm	
....5	C640	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		△....5	CR04S	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-5mm	
....5	C641	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....5	CW901	2503-000156	C-NETWORK:100pFx4,20%,50V	
....5	C642	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D201	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C643	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....5	D202	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C644	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D203	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C645	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....5	D204	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C646	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....5	D205	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C647	2202-000286	C-CERAMIC,MLC-AXIAL:560pF,5%,50V,SL,TP,1.		....5	D206	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C649	2301-000108	C-FILM,PEF:1.5nF,5%,50V,TP6.3x3.0x5.5mm		....5	D207	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C652	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....5	D208	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C654	2201-000611	C-CERAMIC,DISC:0.056nF,5%,50V,NP0,TP7x3		....5	D209	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C656	2201-000304	C-CERAMIC,DISC:0.001nF,0.25pF,50V,NP0,TP		....5	D210	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C657	2201-000304	C-CERAMIC,DISC:0.001nF,0.25pF,50V,NP0,TP		....5	D211	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C701	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D301	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....5	C702	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D401	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
....5	C703	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D402	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,T	
....5	C707	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....5	D403	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C708	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....5	D404	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
....5	C709	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D405	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L	
....5	C710	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D406	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C711	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....5	D407	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C804	2201-000332	C-CERAMIC,DISC:2.2nF,20%,250V,Y5U,TP9x4		....5	D408	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L	
....5	C805	2201-000332	C-CERAMIC,DISC:2.2nF,20%,250V,Y5U,TP9x4		....5	D409	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
....5	C807	2303-000163	C-FILM,PEF:2.2nF,5%,800V,TP15x13x8.5,7.		....5	D411	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....5	C808	2401-003046	C-AL:47uF,20%,50V,WT,TP6.3x11,2.5		....5	D412	0402-000010	DIODE-RECTIFIER:RCP15G,400V,1.5A,DO-204A	
....5	C809	2301-000356	C-FILM,PEF:47nF,5%,50V,TP7.5x4.0x6.5,5,5m		....5	D413	0402-000537	DIODE-RECTIFIER:RH1A,600V,0.6A,DO-204AC	
....5	C810	2301-000356	C-FILM,PEF:47nF,5%,50V,TP7.5x4.0x6.5,5,5m		....5	D601	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C811	2301-000310	C-FILM,PEF:68nF,5%,50V,TP8.0X8.5X4.0X5,		....5	D602	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C814	2201-000406	C-CERAMIC,DISC:0.27nF,10%,2KV,Y5P,TP6.3		....5	D801	0402-001111	DIODE-RECTIFIER:IN5397GP,600V,1.5A,DO-20	
....5	C816	2401-000293	C-AL:100uF,+30-10%,200V,GP,TP16x25		....5	D803	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....5	C817	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,YP,TP5.		....5	D804	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C818	2401-000722	C-AL:2200uF,20%,25V,WT,TP16x25,7.5		....5	D808	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C819	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,YP,TP5.		....5	D810	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C821	2301-000192	C-FILM,PEF:1nF,5%,50V,TP5.3x10mm,5mm		....5	D811	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C822	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,YP,TP5.		....5	D816	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....5	C823	2401-003046	C-AL:47uF,20%,50V,WT,TP6.3x11,2.5		....5	D901	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C824	2401-003046	C-AL:47uF,20%,50V,WT,TP6.3x11,2.5		....5	D902	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C825	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	D903	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C826	2401-000287	C-AL:100uF,20%,16V,WT,TP6.3x11,5		....5	D904	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C827	2401-002212	C-AL:10uF,20%,25V,WT,TP5x11,5		....5	D905	0404-000156	DIODE-SCHOTTKY:RB4410,10V,100mA,DO-34,TP	
....5	C829	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	D906	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C831	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	D907	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	C832	2401-000287	C-AL:100uF,20%,16V,WT,TP6.3x11,5		△....5	DR01S	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,T	
....5	C833	2401-002619	C-AL:47uF,20%,25V,GP,TP5x11,5		....5	DZ201	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C835	2401-002289	C-AL:470uF,20%,35V,WT,TP10x20,5		....5	DZ202	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C837	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	DZ203	0403-001321	DIODE-ZENER:MTZJ6.8C,6.66-7.01V,500mW,DO	
....5	C838	2401-001840	C-AL:100uF,20%,16V,GP,TP6.3x11,5		....5	DZ302	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D	
....5	C839	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	DZ303	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D	
....5	C840	2401-002212	C-AL:10uF,20%,25V,WT,TP5x11,5		....5	DZ304	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D	
....5	C841	2401-000611	C-AL:1uF,20%,50V,WT,TP5x11,5		....5	DZ305	0403-001221	DIODE-ZENER:UZ39SB,35.36-37.19V,500mW,D	
....5	C901	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V		....5	DZ306	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,T	
....5	C902	2301-000192	C-FILM,PEF:1nF,5%,50V,TP5.3x10mm,5mm		....5	DZ401	0403-001325	DIODE-ZENER:MTZJ15C,14.35-15.09V,500mW,D	
....5	C903	2202-000719	C-CERAMIC,MLC-AXIAL:6.8nF,20%,16V,Y5R,3.		....5	DZ402	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....5	C904	2401-002144	C-AL:47uF,20%,16V,GP,TP6.3x11,5		....5	DZ601	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C905	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP3		....5	DZ602	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500	
....5	C907	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-5mm		....5	DZ603	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C908	2202-000863	C-CERAMIC,MLC-AXIAL:560pF,10%,50V,Y5P,TP		....5	DZ801	0403-001322	DIODE-ZENER:MTZJ8.2B,7.78-8.19V,500mW,DO	
....5	C909	2301-000383	C-FILM,PEF:10nF,5%,50V,TP6x7x3.2mm,5mm		....5	DZ802	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C910	2201-000980	C-CERAMIC,DISC:0.03nF,5%,50V,NP0,TP5x3,		....5	DZ803	0403-001167	DIODE-ZENER:MTZJ30D,30V,29.02-30.51V,500	
....5	C911	2201-000980	C-CERAMIC,DISC:0.03nF,5%,50V,NP0,TP5x3,		....5	DZ804	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,T	
....5	C912	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....5	DZ805	1203-001217	IC-POSADJUST REG:431,TO-92,3P4.58MIL	
....5	C913	2401-001840	C-AL:100uF,20%,16V,GP,TP6.3x11,5		....5	DZ806	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C914	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	DZ808	0403-000719	DIODE-ZENER:MTZJ7.5B,7.5V,7.07-7.45V,500	
....5	C915	2401-001840	C-AL:100uF,20%,16V,GP,TP6.3x11,5		....5	DZ901	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500	
....5	C916	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0m		....5	DZ902	0403-000508		

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....5	DZ903	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....5	L909	2701-000191	INDUCTOR-AXIAL:47uH,10%,2.5x3.4mm	
....5	DZ904	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....5	PCB	AA41-00168C	PCB-MAIN:KS3A-FR-1,1L,C,1.6T,330x245,-	S.N.A
....5	DZ905	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....5	Q201	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	DZ906	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....5	Q202	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	DZ907	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....5	Q203	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	DZR01S	0403-001321	DIODE-ZENER:MTZJ6.8C,6.66-7.01V,500mW,DO		....5	Q204	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	F801A	3602-000114	FUSE-HOLDER:-,30mohm	S.N.A	....5	Q402	0502-001007	TR-POWER:KSC2073-H2,NPN,25W,T0-220,ST6	
....5	F801B	3602-000114	FUSE-HOLDER:-,30mohm	S.N.A	....5	Q404	0505-000156	FET-SILICON:IRF620,N,200V,5A,0.8ohm,50W,	
....5	FA802S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS		....5	Q601	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	FA803S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS		....5	Q701	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
△	HIC201	AA13-00093A	IC HYBRID:-,DRGB001A,SiP5P,-,TP		....5	Q802	0501-000369	TR-SMALL SIGNAL:KSC2331-Y,NPN,1W,T0-92L,	
△	HIC202	AA13-00093A	IC HYBRID:-,DRGB001A,SiP5P,-,TP		....5	Q901	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
△	HIC203	AA13-00093A	IC HYBRID:-,DRGB001A,SiP5P,-,TP		....5	Q902	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
△	HIC204	AA13-00093A	IC HYBRID:-,DRGB001A,SiP5P,-,TP		....5	Q903	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
△	IC904	1203-001943	IC-VOL. DETECTOR:7025,T0-92,3P,,PLASTIC		....5	Q904	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	J412	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	Q905	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	J706	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	Q906	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	J718	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	Q908	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	J901	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	Q909	0505-000109	FET-SILICON:2N7000,N,60V,200mA,5ohm,400m	
....5	J904	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM		....5	Q910	0505-000109	FET-SILICON:2N7000,N,60V,200mA,5ohm,400m	
....5	L101	2701-000115	INDUCTOR-AXIAL:10uH,10%,3x7mm		....5	Q911	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	L102	2701-000159	INDUCTOR-AXIAL:22uH,10%,4.2x9.8mm		△	QR01S	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,T0-92,T	
....5	L103	2701-000115	INDUCTOR-AXIAL:10uH,10%,3x7mm		△	QR02S	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,T0-92,T	
....5	L104	2701-000106	INDUCTOR-AXIAL:1.5uH,10%,3x7mm		....5	R102	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L106	2701-000115	INDUCTOR-AXIAL:10uH,10%,3x7mm		....5	R103	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L202	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	R104	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L203	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	R105	2001-000702	R-CARBON:39KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L204	2701-000184	INDUCTOR-AXIAL:4.7uH,10%,2.5x3.4mm		....5	R106	2001-000864	R-CARBON:56KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L205	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm		....5	R107	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L206	2701-000184	INDUCTOR-AXIAL:4.7uH,10%,2.5x3.4mm		....5	R202	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L207	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R203	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L208	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R204	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L209	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R205	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L210	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R206	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L212	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R207	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L213	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R208	2001-000405	R-CARBON:1800HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L214	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R209	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L301	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	R210	2001-000812	R-CARBON:5.6KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L302	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R212	2004-000218	R-METAL:10Kohm,1%,1/8W,AA,TP1.8x3.2mm	
....5	L303	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R213	2001-000232	R-CARBON:1.3KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L401	2001-001037	R-CARBON(S):0.390HM,5%,1/2W,AA,TP2.4X6.		....5	R214	2001-00411	R-CARBON:18KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L406	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	R215	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L407	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-		....5	R216	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L410	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R217	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L412	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R218	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L601	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-		....5	R219	2001-000628	R-CARBON:3000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L604	2701-000169	INDUCTOR-AXIAL:3.9uH,10%,2.5x3.4mm		....5	R220	2001-000628	R-CARBON:3000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L605	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R221	2001-000628	R-CARBON:3000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L606	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R222	2001-000628	R-CARBON:3000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L607	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R228	2001-000117	R-CARBON(S):680HM,5%,1/2W,AA,TP2.4X6.4M	
....5	L608	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R229	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L609	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-		....5	R230	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L701	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R231	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L702	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R232	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L705	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R233	2003-000592	R-METAL OXIDE(S):22ohm,5%,2W,AF,TP4x12m	
....5	L706	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		....5	R234	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L709	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R235	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L710	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R236	2001-000515	R-CARBON:2200HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L711	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	R237	2001-000515	R-CARBON:2200HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L712	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R238	2001-000515	R-CARBON:2200HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L713	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R240	2001-000739	R-CARBON:4.7MOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L714	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....5	R241	2001-000362	R-CARBON:1500HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L801	3301-001223	CORE-FERRITE BEAD:AA,62ohm,3.5x0.8x5mm,-		....5	R242	2001-000405	R-CARBON:1800HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L802	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R243	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L803	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R244	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L804	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R245	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L806	3301-001223	CORE-FERRITE BEAD:AA,62ohm,3.5x0.8x5mm,-		....5	R246	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-		....5	R247	2001-000515	R-CARBON:2200HM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L809	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....5	R248	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L901	2702-001094	INDUCTOR-RADIAL:10uH,10%,6x4mm		....5	R249	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L902	2701-000184	INDUCTOR-AXIAL:4.7uH,10%,2.5x3.4mm		....5	R250	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L903	2702-001094	INDUCTOR-RADIAL:10uH,10%,6x4mm		....5	R251	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....5	L904	2702-001094	INDUCTOR-RADIAL:10uH,10%,6x4mm		....5	R252	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....5	L905	2001-000995	R-CARBON:8200HM,5%,1/8W,AA,TP1.8X3.2MM		....5	R301	2004-004048	R-METAL(S):3.9Kohm,1%,1/2W,AA,TP2.5x6.5	
....5	L907	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....5	R302	2004-000531	R-METAL:20Kohm,1%,1/2W,AA,TP3.3x9mm	
....5	L908	2701-000191	INDUCTOR-AXIAL:47uH,10%,2.5x3.4mm		....5	R303	2001-000016	R-CARBON(S):10HM,5%,1/2W,AA,TP2.4X6.4MM	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....5	R304	2008-001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10		....5	R723	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R305	2003-002157	R-METAL OXIDE:2200HM,5%,2W,AG,TP,6X16MM		....5	R724	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R306	2003-002157	R-METAL OXIDE:2200HM,5%;2W,AG,TP,6X16MM		....5	R725	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R309	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R726	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R310	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R802	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x	
....5	R313	2004-001137	R-METAL:6.8Kohm,1%,1/8W,AA,TP,1.8x3.2m		....5	R803	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x	
....5	R314	2004-001986	R-METAL(S);35.7Kohm,1%,1/2W,AA,TP,2.4x6		....5	R804	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x	
....5	R315	2004-004970	R-METAL(S);62Kohm,1%,1/8W,AA,TP,1.8x3.2m		....5	R805	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.	
....5	R401	2003-002008	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x		....5	R806	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.	
....5	R402	2003-002008	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x		....5	R807	2006-001083	R-CEMENT:120ohm,5%,5W,CJ,TP,14x10x27mm	
....5	R403	2008-001033	R-FUSIBLE(S);10ohm,5%,2W,AF,TP,3.9x10mm		....5	R808	2001-001079	R-CARBON(S);150HM,5%,1/2W,AA,TP,2.4X6.4M	
....5	R404	2001-001037	R-CARBON(S);0.390HM,5%,1/2W,AA,TP,2.4X6.		....5	R809	2001-000029	R-CARBON(S);330HM,5%,1/2W,AA,TP,2.4X6.4M	
....5	R405	2008-000254	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10m		....5	R810	2001-001178	R-CARBON(S);6800HM,5%,1/2W,AA,TP,2.4X6.4	
....5	R409	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x		....5	R811	2004-001408	R-METAL(S);91Kohm,1%,1/2W,AA,TP,2.4x6.4m	
....5	R410	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x		....5	R812	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R411	2001-000028	R-CARBON(S);1000HM,5%,1/2W,AA,TP,2.4X6.4		....5	R813	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4M	
....5	R412	2001-000020	R-CARBON(S);220HM,5%,1/2W,AA,TP,2.4X6.4M		....5	R816	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R413	2008-0001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10		....5	R817	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R414	2008-000253	R-FUSIBLE(S);0.47ohm,5%,1W,AF,TP,3.9x10m		....5	R818	2001-001113	R-CARBON(S);270KOHM,5%,1/2W,AA,TP,2.4X6.4	
....5	R415	2004-001402	R-METAL(S);6.8Kohm,1%,1/2W,AA,TP,2.4x6.4		....5	R819	2004-001983	R-METAL(S);2.49Kohm,1%,1/2W,AA,TP,2.4x6.	
....5	R417	2004-001382	R-METAL(S);13Kohm,1%,1/2W,AA,TP,2.4x6.4m		....5	R820	2001-001096	R-CARBON(S);2.20HM,5%,1/2W,AA,TP,2.4X6.4	
....5	R418	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M		....5	R821	2004-001891	R-METAL(S);13Kohm,1%,1/2W,AA,TP,2.5x6.5	
....5	R420	2004-001402	R-METAL(S);6.8Kohm,1%,1/2W,AA,TP,2.4x6.4		....5	R822	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R421	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.		....5	R823	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R422	2003-000649	R-METAL OXIDE(S);330ohm,5%,1W,AF,TP,3.3x		....5	R824	2001-000864	R-CARBON:56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R423	2003-001042	R-METAL OXIDE(S);5.6Kohm,5%,2W,AF,TP,3.9		....5	R825	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.4X6.4	
....5	R424	2008-001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10		....5	R827	2008-000284	R-FUSIBLE(S);0.10HM,10%,2W,AF,TP,3.9x10M	
....5	R425	2008-0001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10		....5	R828	2008-000266	R-FUSIBLE(S);10hm,5%,2W,AF,TP,3.9x10mm	
....5	R426	2003-000540	R-METAL OXIDE(S);1Kohm,5%,2W,AF,TP,4x12m		....5	R829	2008-001029	R-FUSIBLE(S);5.60HM,5%,2W,AF,TP,3.9X10MM	
....5	R428	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.		....5	R831	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R429	2001-001139	R-CARBON(S);39KOHM,5%,1/2W,AA,TP,2.4X6.4		....5	R832	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4M	
....5	R432	2001-001122	R-CARBON(S);3.9KOHM,5%,1/2W,AA,TP,2.4X6.4		....5	R833	2001-000742	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R433	2003-001042	R-METAL OXIDE(S);5.6Kohm,5%,2W,AF,TP,3.9		....5	R835	2003-002181	R-METAL OXIDE(S);68Kohm,5%,2W,AG,TP,3.9x	
....5	R434	2003-000664	R-METAL OXIDE(S);330hm,5%,2W,AF,TP,4x12m		....5	R836	2003-002181	R-METAL OXIDE(S);68Kohm,5%,2W,AG,TP,3.9x	
....5	R436	2003-000208	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x		....5	R901	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R601	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R903	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R602	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R904	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R603	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R905	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R604	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R906	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R605	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R907	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R606	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R908	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R607	2001-000258	R-CARBON:1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M		....5	R909	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R608	2001-000258	R-CARBON:1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M		....5	R910	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R610	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R911	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R611	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R912	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R612	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R913	2001-000947	R-CARBON:7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R613	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R914	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R614	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R915	2001-000577	R-CARBON:2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R615	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R916	2001-000007	R-CARBON:3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R616	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R917	2001-000878	R-CARBON:6.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R617	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R918	2001-000009	R-CARBON:20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R620	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R919	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R621	2001-000577	R-CARBON:2KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R920	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R622	2001-000577	R-CARBON:2KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R921	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R627	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R923	2001-000924	R-CARBON:6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R628	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R924	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R629	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R925	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R701	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R927	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R702	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R928	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R703	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R929	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R704	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R930	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R705	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R931	2001-000734	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R706	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R932	2001-000515	R-CARBON:2200HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R707	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R933	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R708	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R934	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8X3.2mm	
....5	R709	2001-000938	R-CARBON:680HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R935	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R710	2001-000938	R-CARBON:680HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R936	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R711	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R937	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R712	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R938	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....5	R715	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R939	2001-000793	R-CARBON:470HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R716	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R940	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R717	2001-000702	R-CARBON:39KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R941	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R718	2001-000702	R-CARBON:39KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R942	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R719	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R943	2001-000515	R-CARBON:2200HM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R720	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R945	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R721	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM		....5	R946	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....5	R722	2001-000969	R-CARBON						

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....5	R949	2001-000660	R-CARBON:33KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	0502-000131	TR-POWER:2SA1011-D,PNP,1.2W,TO-220,-60		
....5	RP802S	2002-001010	R-COMPOSITION:1.8Mohm,5%,1/2W,AA,TP3.7x		....4	6003-000333	SCREW-TAPITTE:RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	
....5	RR01S	2008-000264	R-FUSIBLE(S):1ohm,5%,1W,AF,TP3.9x10mm		....4	AA62-30013L	HEATSINK-ES:-,-,-,44/22,-,WHT,-,-	S.N.A	
....5	RR02S	2001-000766	R-CARBON:43KOHM,5%,1/8W,AA,TP1.8X3.2MM		....3	R523	2008-000267	R-FUSIBLE(S):2.4ohm,5%,2W,AA,TP3.9x10mm	
....5	RR03S	2001-000009	R-CARBON:20KOHM,5%,1/8W,AA,TP1.8X3.2MM		....3	R526	2008-001057	R-FUSIBLE:750ohm,5%,1/2W,AF,TP2.5x6.5mm	
....5	RR04S	2001-000908	R-CARBON:62KOHM,5%,1/8W,AA,TP1.8X3.2MM		....3	VA999	3704-000114	SOCKET-CRT:14P29.1,35.5,SN,ISH09S/BK	
....5	RR05S	2001-001015	R-CARBON:9.1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....3	AA99-20080R	ASSY-PCB,SUB,AUTO: AA95-00726C ,V	S.N.A	
....5	RR06S	2001-000977	R-CARBON:8.2KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	C501	2201-000247	C-CERAMIC,DISC:0.015nF,5%,50V,NP0,TP5x3	
....5	RR07S	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	C502	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP16.5x10.3x5	
....5	RR08S	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	C503	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5.	
....5	RR09S	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP1.8X3.2MM		....4	C505	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP16.5x10.3x5	
....5	RR10S	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	C506	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5.	
....5	RR430S	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP2.4X6.4MM		....4	C507	2201-000247	C-CERAMIC,DISC:0.015nF,5%,50V,NP0,TP5x3	
....5	RY802S	2002-001013	R-COMPOSITION:4.7Mohm,5%,1/2W,AA,TP3.7x		....4	C508	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP16.5x10.3x5	
....5	SW901	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP		....4	C509	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5.	
....5	SW902	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP		....4	C510	2401-001563	C-AL:47uf,20%,400V,GPT,TP16x25.7.5	
....5	SW903	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP		....4	C511	2401-001232	C-AL:4.7uf,20%,250V,GPT,TP10x12.5.5	
....5	SW904	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP		....4	C512	2401-000914	C-AL:22uf,20%,16V,GPT,TP5x11.5	
....5	SW905	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP		....4	C513	2201-002063	C-CERAMIC,DISC:10nf,+80-20%,3KV,Y5V,TP1	
△....5	VP801S	1405-000152	VARISTOR:560V,2500A,14x8.5mm,TP		....4	C514	2401-000430	C-AL:10uf,20%,250V,GP,TP,10x16mm,5mm	
△....5	VP801S	1405-000152	VARISTOR:560V,2500A,14x8.5mm,TP		....4	C515	2401-000914	C-AL:22uf,20%,16V,GPT,TP5x11.5	
....5	X201	2801-003432	CRYSTAL-UNIT:20.25MHz,30ppm,28-AAM,13PF		....4	C516	2301-000192	C-FILM,PEF:1nF,5%,50V,TP5.3x10mm,5mm	
....5	X601	2801-003903	CRYSTAL-UNIT:18.432MHz,25ppm,28-AAM,12PF		....4	C518	2301-000224	C-FILM,PEF:22nF,5%,50V,TP7.4x3.9x13mm,5	
....5	X901	2801-003728	CRYSTAL-UNIT:6MHz,30ppm,28-AAM,20pF,40oh		....4	C519	2301-000224	C-FILM,PEF:22nF,5%,50V,TP7.4x3.9x13mm,5	
....3	AA95-00683A	ASSY-PCB,VIDEO S/W:-,29A6,KS3A,PAL,-,			....4	C520	2301-000224	C-FILM,PEF:22nF,5%,50V,TP7.4x3.9x13mm,5	
....4	CNS01	3711-002704	CONNECTOR-HEADER:NOWALL,8P,IR,2.5mm,ANGL		....4	C521	2301-000224	C-FILM,PEF:22nF,5%,50V,TP7.4x3.9x13mm,5	
....4	CNS02	3711-002706	CONNECTOR-HEADER:NOWALL,8P,IR,2.5mm,ANGL		....4	C522	2301-000224	C-FILM,PEF:22nF,5%,50V,TP7.4x3.9x13mm,5	
△....4	ICS01	1001-001114	IC-VIDEO SWITCH:TEA6425,VIDEO SWITCH,DI		....4	C523	2301-000224	C-FILM,PEF:22nF,5%,50V,TP7.4x3.9x13mm,5	
....4	PCB	AA41-00153D	PCB-VIDEO SWITCH:CS29A6,FR-1,L,D,1.6T,2	S.N.A	....4	C526	2401-000914	C-AL:22uf,20%,16V,GP,TP5x11.5	
....4		AA99-20075B	ASSY-PCB,SUB,AUTO: AA95-00683A ,V	S.N.A	....4	CF01	2201-000180	C-CERAMIC,DISC:10nf,10%,50V,Y5V,TP7x3.5	
....5	CS01	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,,5mm		....4	CF02	2301-000192	C-FILM,PEF:1nF,5%,50V,TP5.3x10mm,5mm	
....5	CS02	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,,5mm		....4	CF03	2201-000376	C-CERAMIC,DISC:0.22nF,5%,50V,SL,TP5x3	
....5	CS03	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,,5mm		....4	CF04	2201-000653	C-CERAMIC,DISC:0.068nF,5%,50V,SL,TP5x3	
....5	CS04	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,,5mm		....4	CF05	2301-000261	C-FILM,PEF:4.7nf,5%,100V,TP10.5x12.5x6.	
....5	CS05	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,,5mm		....4	CF06	2201-000516	C-CERAMIC,DISC:4.7nf,+100-0%,500V,Y5U,TP	
....5	CS06	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,,5mm		....4	CF07	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP16.5x10.3x5	
....5	CS07	2401-002009	C-AL:100uf,20%,16V,GPT,TP6.3x7.5		....4	CF08	2201-000604	C-CERAMIC,DISC:0.056nF,+100-0%,500V,SL,T	
....5	CS08	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP7.5x4.0x5.0mm		....4	CF10	2401-001840	C-AL:100uf,20%,16V,GPT,TP6.3x11.5	
....5	LS01	2701-000114	INDUCTOR-AXIAL:10uh,10%,2.5x3.4mm		....4	CF11	2401-000927	C-AL:22uf,20%,250V,GP,TP,13x20.5	
....5	QS01	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T		....4	CF12	2401-001840	C-AL:100uf,20%,16V,GP,TP,6.3x11.5	
....5	QS02	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T		....4	CF14	2401-000832	C-AL:220uf,20%,250V,GPT,TP8x11.5.5	
....5	QS03	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T		....4	CN502A	3711-002646	CONNECTOR-HEADER:BOX,7P,IR,2.5mm,STRAIGH	
....5	RS01	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP1.8X3.2MM		....4	CNF01	3711-002642	CONNECTOR-HEADER:BOX,3P1R,2.5MM,STRAIGH	
....5	RS02	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D502	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
....5	RS03	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D507	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....5	RS04	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D508	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....5	RS05	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D509	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....5	RS06	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D510	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....5	RS07	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D511	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....5	RS10	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	D512	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....5	RS11	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM		....4	DF01	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4		0202-000187	SOLDER-WIRE FLUX:-,RS605,D1.2,63sn/37Pb	S.N.A	....4	DF02	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-	
....3	AA39-20010B	LEAD CONNECTOR-ASSY:-,YFH800-01,S,1P500		....4	DF03	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-		
....3		2201-000374	C-CERAMIC,DISC:0.22nF,5%,50V,NP0,TP10.5		....4	DF04	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....3	AA64-01230B	INLAY-COVER:D2,D3,PVC-SHEET,T0,4.9V,0,-			....4	DZ503	0403-001211	DIODE-ZENER:MTZJ12B,11.44-12.03V,500MW,D	
....2	AA90-00136G	ASSY-PACKING,PCB:CHASIS,24.6/131.2kg,K51			....4	DZ504	0403-001211	DIODE-ZENER:MTZJ12B,11.44-12.03V,500MW,D	
....3	CHASIS	AA61-30009A	LOCKER-BAND,CLIP,-,SPC-1,-,18MM T0.5,-		....4	DZ505	0403-001211	DIODE-ZENER:MTZJ12B,11.44-12.03V,500MW,D	
....3	CHASIS	AA63-10007C	BAND-PP,-,-,W18,-,CLEAR,1G,-		....4	DZ507	0403-001039	DIODE-ZENER:MA2560,56V/52-60V,1W,DO-41,T	
....2		AA95-00726C	ASSY PCB,CRT:-,KS3A,32,-,TXK3279		....4	DZ508	0403-001039	DIODE-ZENER:MA2560,56V/52-60V,1W,DO-41,T	
....3	CN501A	3711-002641	CONNECTOR-HEADER:BOX,10P1R,2.54mm,STRAI		....4	DZ509	0403-001039	DIODE-ZENER:MA2560,56V/52-60V,1W,DO-41,T	
....3	CN501E	AA39-20025H	LEAD CONNECTOR-ASSY:-,67096-010,S,10P70		....4	DZ510	2701-000178	INDUCTOR-AXIAL:33uH,10%,3x7mm	
....3	CN502E	AA39-20029D	LEAD CONNECTOR-ASSY:-,67096-007,S,7P500		....4	L503	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-	
△....3	IC501	AA96-50151B	ASSY-H/S:-,AMPA61-10060A,TD41110,-		....4	L504	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-	
....4		1201-001131	IC-VIDEO AMP:6111,SIP,9P,,SINGLE,,PLAS		....4	L505	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4		6001-000057	SCREW-MACHINE:RH,+M3,L6,ZPC(BLK),SWRCH1		....4	LF01	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4		6021-000222	NUT-HEXAGON:2C,M3,ZPC(YEL),SM20C 1		....4	LF02	2701-000112	INDUCTOR-AXIAL:100uH,10%,3x7mm	
....4		AA61-10060A	BRACKET-TR,-,-,CUS-1,1/2H,T0.5,-,-		....4	LF04	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-	
....4		AA61-10060A	PCB-CRT:CS29A6,FR-1,L,C,1,6,330x245,		....4	LF05	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-	
....3	PCB	AA41-00210C	PCB-CRT:CS29A6,FR-1,L,C,1,6,330x244,	S.N.A	....4	O502	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....3	QF04	AA96-00111A	ASSY-H/S:-,AA62-30013L,2SC2344,		....4	O503	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4		0502-000153	TR-POWER:2SC2344-D,NPN,1.2W,TO-220,-,60		....4	O504	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4		6003-000333	SCREW-TAPITTE:RH,+2S,M3,L10,ZPC(YEL),SW		....4	O501	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4		AA62-30013L	HEATSINK-ES:-,-,-,44/22,-,WHT,-,-,-		....4	O502	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....3	QF05	AA96-00111B	ASSY-H/S:-,AA62-30013L,2SA1011,-		....4	O503	2001-000193	R-CARBON(S):2.2KOHM,5%,1/2W,AA,TP2.4X6.	
....4					....4	O503	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP2.4X6.	

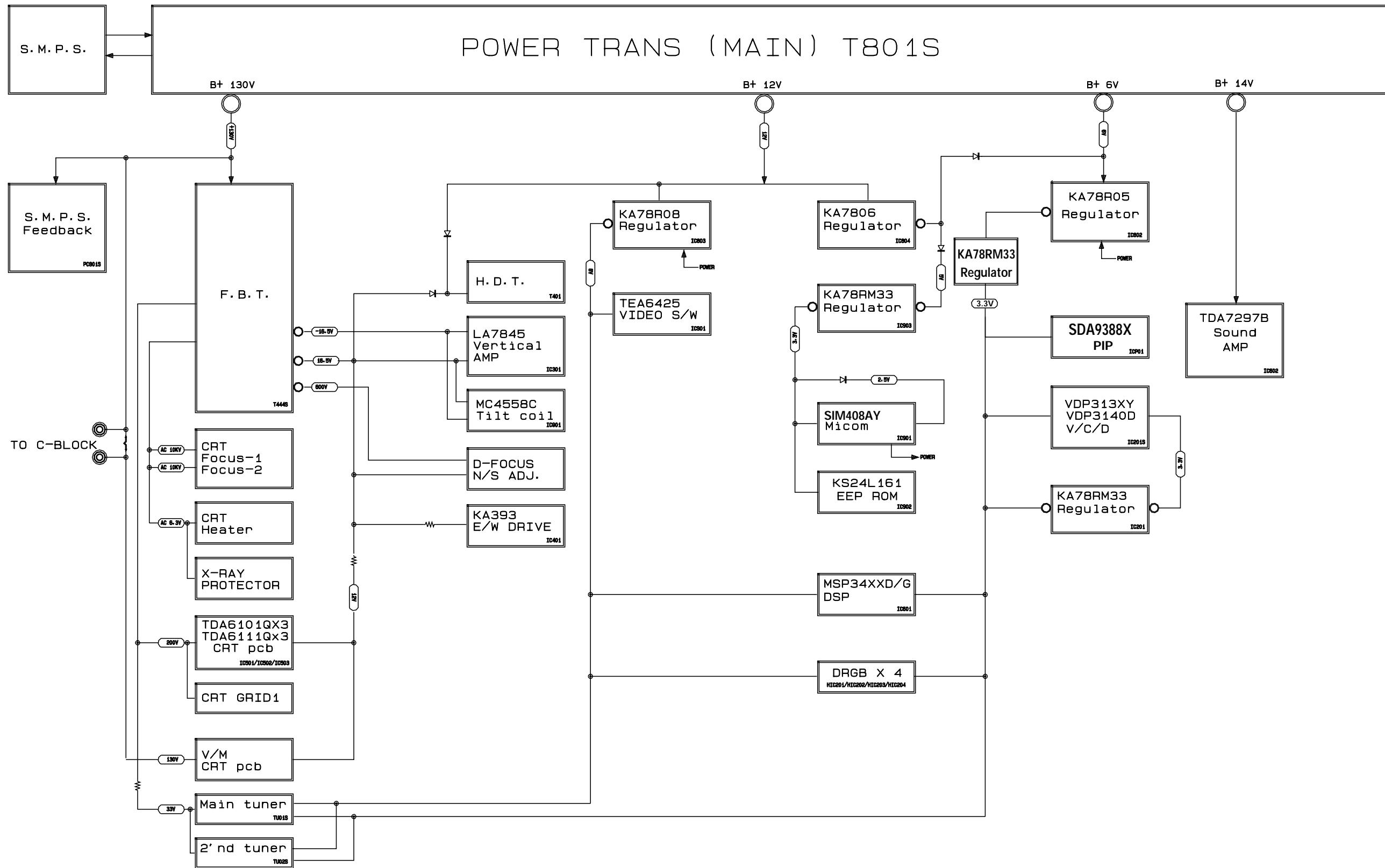
Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Description ; Specification	Remark
.4	R504	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP1.8X3.2MM		.2	0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A
.4	R505	2002-001008	R-COMPOSITION:1.8Kohm,10%,1/2W,AA,TP3.7		.2	AA63-10002A	BAND-TIE:-,NYLON66 V2,-,-,L100,NTR,-,-	S.N.A
.4	R506	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R507	2001-001093	R-CARBON(S):2.2KOHM,5%,1/2W,AA,TP2.4X6.					
.4	R508	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP2.4X6.					
.4	R509	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R510	2002-001008	R-COMPOSITION:1.8Kohm,10%,1/2W,AA,TP3.7					
.4	R511	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R512	2001-001093	R-CARBON(S):2.2KOHM,5%,1/2W,AA,TP2.4X6.					
.4	R513	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP2.4X6.					
.4	R515	2002-001008	R-COMPOSITION:1.8Kohm,10%,1/2W,AA,TP3.7					
.4	R517	2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,TP2.4X6.4					
.4	R518	2003-001023	R-METAL OXIDE(S):120ohm,5%,2W,AF,TP3.9x					
.4	R519	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP3.7					
.4	R521	2001-000660	R-CARBON:33KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R522	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R527	0403-001316	DIODE-ZENER:MTZ3.0A,2.85-3.07V,500mW,DO					
.4	R538	2002-001048	R-COMPOSITION:24Mohm,5%,1/2W,AA,TP3.9x9					
.4	R539	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R542	2001-000832	R-CARBON:5100HM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R543	2001-000832	R-CARBON:5100HM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R544	2001-000832	R-CARBON:5100HM,5%,1/8W,AA,TP1.8X3.2MM					
.4	R546	2001-000832	R-CARBON:5100HM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF02	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF03	2001-000362	R-CARBON:1500HM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF04	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF05	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF06	2001-000998	R-CARBON:820KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF07	2001-000904	R-CARBON:6200HM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF08	2001-000313	R-CARBON:11KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF09	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF10	2001-000241	R-CARBON:1.5KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF11	2001-000241	R-CARBON:1.5KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF12	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP1.8X3.2MM					
.4	RF13	2001-001179	R-CARBON(S):68KOHM,5%,1/2W,AA,TP2.4X6.4					
.4	RF14	2001-001071	R-CARBON(S):12KOHM,5%,1/2W,AA,TP2.4X6.4					
.4	RF15	2001-001100	R-CARBON(S):2.70HM,5%,1/2W,AA,TP2.4X6.4					
.4	RF16	2001-001179	R-CARBON(S):68KOHM,5%,1/2W,AA,TP2.4X6.4					
.4	RF17	2001-001100	R-CARBON(S):2.70HM,5%,1/2W,AA,TP2.4X6.4					
.4	RF18	2003-000458	R-METAL OXIDE(S):100ohm,5%,2W,AF,TP4x12					
.4	RF19	2003-001023	R-METAL OXIDE(S):120ohm,5%,2W,AF,TP3.9x					
.4	RF20	2003-002214	R-METAL OXIDE(S):680ohm,5%,2W,AG,TP3.9x					
.4	RF21	2003-002214	R-METAL OXIDE(S):680ohm,5%,2W,AG,TP3.9x					
.4	RF22	2003-002214	R-METAL OXIDE(S):680ohm,5%,2W,AG,TP3.9x					
.4	RF23	2003-000746	R-METAL OXIDE(S):56ohm,5%,2W,AF,TP4x12m					
.4	RF24	2003-000746	R-METAL OXIDE(S):56ohm,5%,2W,AF,TP4x12m					
.4	RF25	2003-002009	R-METAL OXIDE(S):390ohm,5%,2W,AF,TP3.9x					
.4	SG501	AA27-00084A	COIL-S-23,-,-,-,S-23,5000Mohm					
.4	SG502	AA27-00084A	COIL-S-23,-,-,-,S-23,5000Mohm					
.4	SG503	AA27-00084A	COIL-S-23,-,-,-,S-23,5000Mohm					
.4	SG504	AA27-00084A	COIL-S-23,-,-,-,S-23,5000Mohm					
.3		0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A				
.3		AA63-10002A	BAND-TIE:-,NYLON66 V2,-,-,L100,NTR,-,-	S.N.A				
ASSY-PCB,A/V FRONT								
1		* AA95-00647AASSY-PCB,A/V FRONT:DPTXK3276C/XAA,KS3A,						
.2	CA02	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP					
.2	CA03	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP					
.2	CA04	2202-000720	C-CERAMIC,MLC-AXIAL:8.2nF,20%,16V,Y5R,TP					
.2	CA05	2202-000720	C-CERAMIC,MLC-AXIAL:8.2nF,20%,16V,Y5R,TP					
.2	CA06	2401-003102	C-AL:100uF,20%,10V,GP,TP5x11.5					
.2	CA07	2401-003102	C-AL:100uF,20%,10V,GP,TP5x11.5					
.2	CN01A	AA39-20068E	LEAD CONNECTOR-ASSY:-,YBNH025-08,67096-0					
.2	CN05A	AA39-20069D	LEAD CONNECTOR-ASSY:-,YBNH025-05,67096-0					
.2	CN06A	AA39-00070A	LEAD CONNECTOR-ASSY:-,Y					
.2	JE01	3722-000143	JACK-PHONE:1P(VER),3.4mm,AG,BLK,NO					
.2	JR01	3722-001031	JACK-RCA:3P,3.6MM,18AU					
.2	LA04	2701-000180	INDUCTOR-AXIAL:33uH,5%,2.5x3.4mm					
.2	LA05	2701-000180	INDUCTOR-AXIAL:33uH,5%,2.5x3.4mm					
.2	PCB	AA41-10358C	PCB-FRONT A/V CHASSIS-ALL,FR-1,1L,C,1.6T,					
.2	RA01	2001-000028	R-CARBON(S):100OHM,5%,1/2W,AA,TP2.4X6.4					
.2	RA02	2001-000028	R-CARBON(S):100OHM,5%,1/2W,AA,TP2.4X6.4					
.2		3301-001201	CORE-FERRITE:AE,230.5x10.25x36mm,1500,28					
ASSY-CRT								
1		*AA97-00721AASSY CRT:-,32,-,TXK3276C/XAA,-						
.2		AA03-00131A	CRT COLOR:A81AGZ50X07,-,34INCH,-,-,-,1.2					
ASSY SPEAKER								
1		* AA96-00459AASSY SPEAKER:-,8ohm,15W,-,AA39-00102M,-						
		3001-001115	SPEAKER:15W,8ohm,93dB,110					
		AA39-00102M	LEAD CONNECTOR-ASSY:-,-,-,-,-,35					
ASSY-POWER,CORD								
1		* AA96-20129BASSY-POWER,CORD:-,EP2/YES,H/C400,ME301P,						
		AA61-20284A	HOLDER:-,P-CORD,PP,VO,BLK,KE-002					
		AA39-10007Y	POWER-CORD:-,EP2/YES,SPT-2 18AWGx2C,2.4m					S.N.A
REMOCON								
1		* AA59-00153AREMOCON:DPTM58 AA59-00141A,-,-,-,-						
		AA59-00141A	REMOCON:-,TM58,SSM174PT,41,SS,L/GRAY,M					
		2802-000194	RESONATOR-CERAMIC:8MHz,1.0%,TP8.5x4.5x					S.N.A
		AA09-00052A	IC-MCU:Z8L880SSC-R5019,-,STICK,-,28					S.N.A
ASSY-SKD								
1		* AA97-00722BASSY-SKD:-,TXK3279C/XAA,KS3A,NTSC,-,-						
.2	CLAMP	AA65-30104C	CLAMP-WIRE:NYLON 66,V2,NTR,W1 Z4,ALL MOD					
.2	CLAMP	AA65-30018A	CLAMP-WIRE:NYLON-66,-,-,DATL-600,DONG-A,					
.2	CLAMP	AA65-30109A	CLAMP-FBT:NYLON-66,V2,BLK,-,-					
.2	CLAMP	AA65-30009A	CLAMP-FBT:ABS,V0,BLK,-,-					
.2		AA39-20015B	LEAD CONNECTOR-ASSY:-,67096-003,-,3(2)P					
.2		AA27-00018A	COIL-DEGAUSSING:-,34,10ohm,60T,L3600,E					
ASSY CABINET(COM)								
1		* AA92-00388BASSY CABINET(COM):TXK3279C/XAA						
.2	CB+CF	AA60-10050T	SCREW-TAPPING:RH,+,2S,M4,L20,ZPC(BLK),SW					
.2	CB+RCA	AA60-10050T	SCREW-TAPPING:RH,+,2S,M4,L20,ZPC(BLK),SW					
.2	CRT+CF	AA60-10050V	SCREW-ASSY:WC,HH,+,M6,L30,SWRCH18A,ZPC(S					
.2	D-COIL	AA65-30113A	CLAMP-D,COIL:NYLON 66,V2,BLK,TVI,25,-,					
.2	PA+CF	6006-001095	SCREW-ASS'Y:TAPT:WPBH,+,M4,L12,ZPC(YEL)					
.2		AA65-30008A	CLAMP-CORD:PE,HB,BLK,-,-					
.2		AA64-00892G	INLAY BACK:D2,D3,RCA9P-S-VHS+DVD,PS SHEE					
.2		AA64-00886A	CABINET BACK:TOOL,34D3-1,MOLD,-,-,-					
ASSY CABINET FRONT								
1		* AA92-00390BASSY CABINET FRONT:TXK3279C/XAA						
.2	IND+CF	6003-001019	SCREW-TAPPIE:RH,+,B,M4,L12,ZPC(BLK),SWR					
.2	KC+CF	6003-001019	SCREW-TAPPIE:RH,+,B,M4,L12,ZPC(BLK),SWR					
.2	KNOPOW	AA61-60003J	SPRING-CS:-,SUS304,0.5,OD6,H12,N7,-,-					
.2	SPK+CF	6003-001019	SCREW-TAPPIE:RH,+,B,M4,L12,ZPC(BLK),SWR					
.2		AA64-00355A	INDICATOR-LED:DP37D3,MOLD,-,-,-					
.2		AA64-00885A	CABINET FRONT:TOOL,34D3-1,MOLD,-,-,-					
.2		AA64-70124C	BADGE-BRAND:AL,R2500,SILVER,L=70,SAMSUNG					

Electrical Parts List

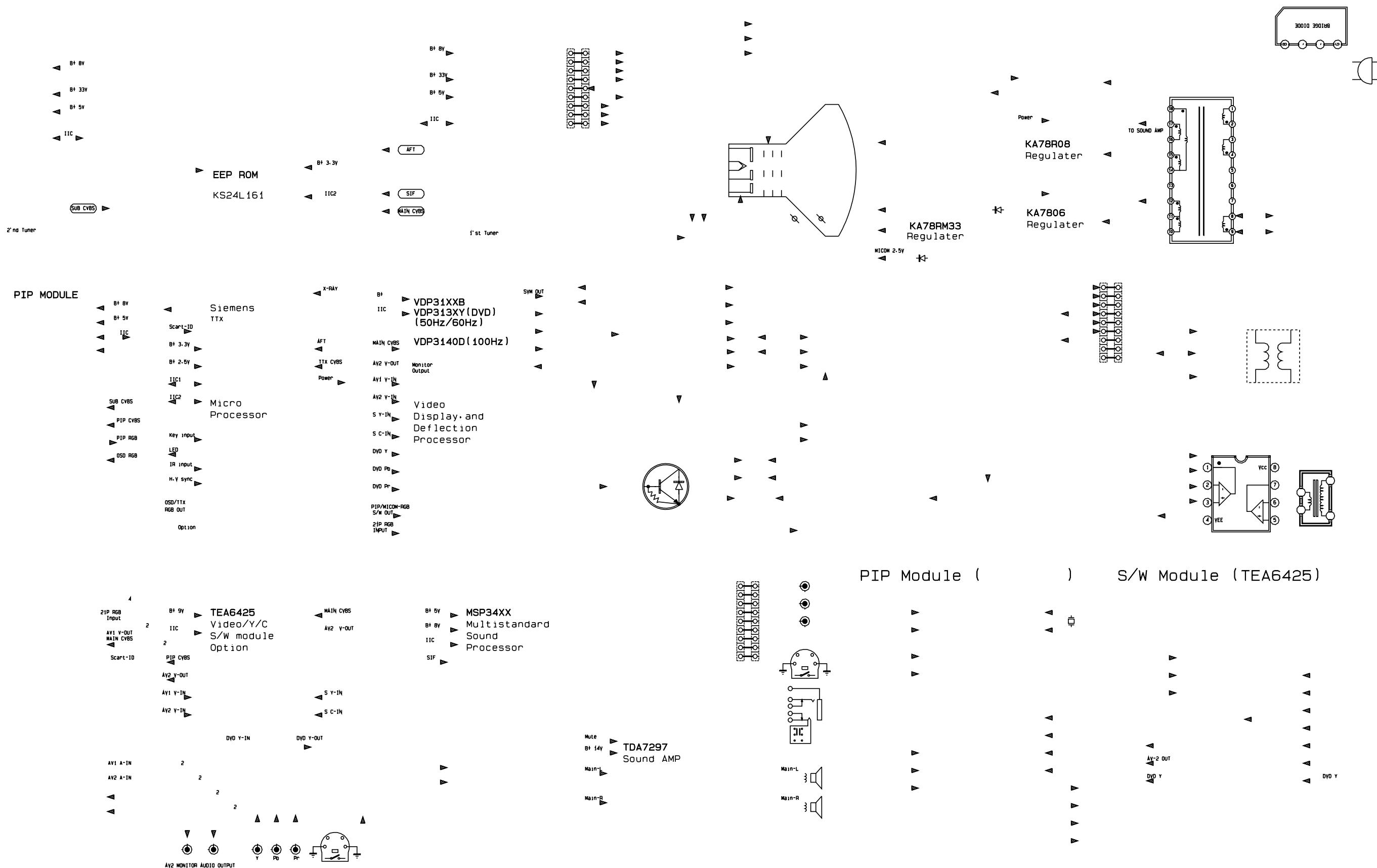
Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
.2		AA65-00011C	CLAMP-WIRE;ALL MODEL, NYLON 66,V2,NTR,25M	S.N.A					
.2		AA61-40113A	STOPPER;PCB;501H,HIPS,NTR,HB,-,-	S.N.A					
.2		AA64-00352A	KNOB-POWER;TOOL,37D3,MOLD,-,-,-						
.2		AA64-00353A	KNOB-CONTROL;TOOL,37D3,MOLD,-,-,-						
.2		AA64-00354A	WINDOW-REMOCON;MOLD,37D3,MOLD,-,-,-						

8. Block Diagrams

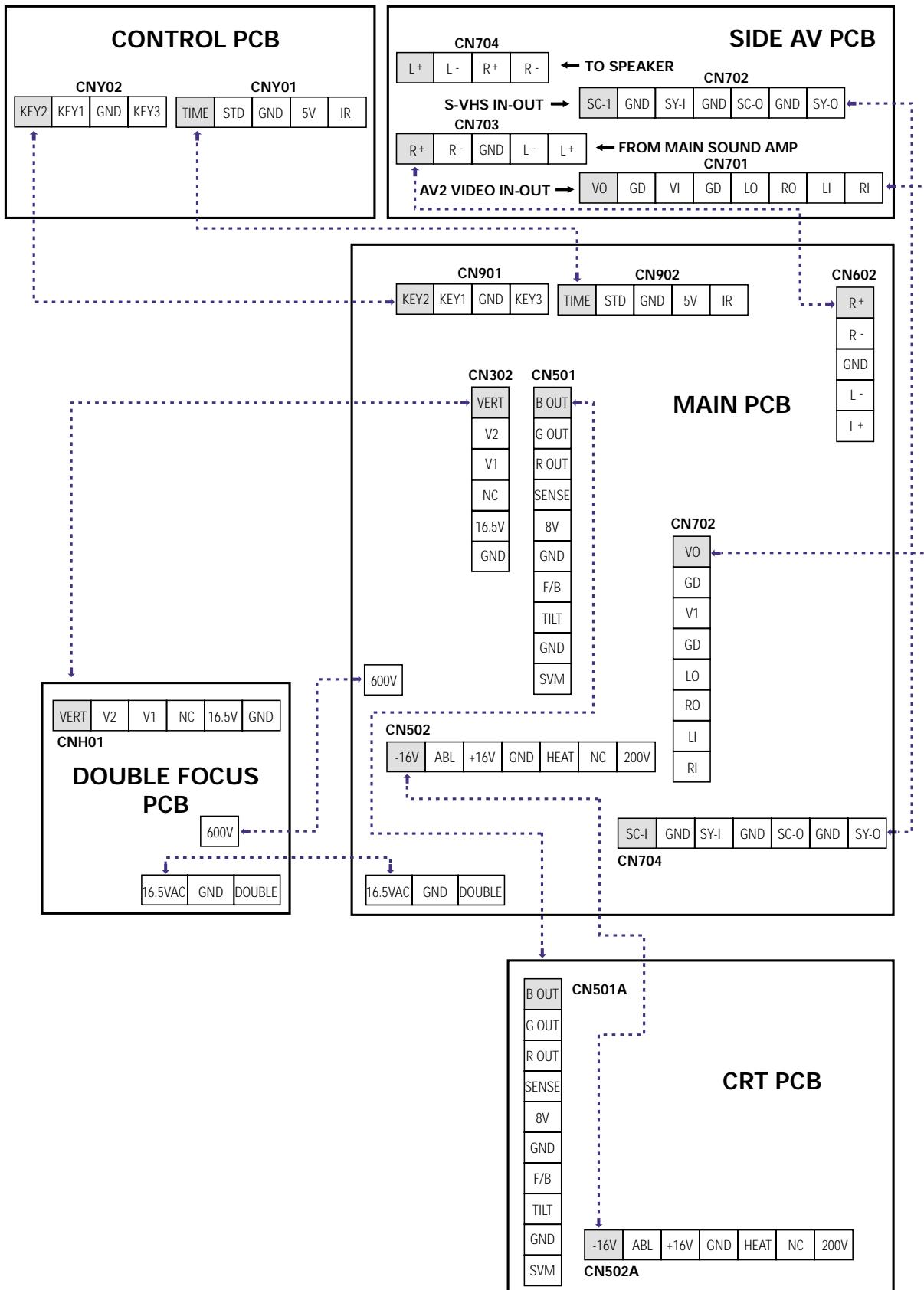
8-1 Power Diagram



8-2 Block Diagram



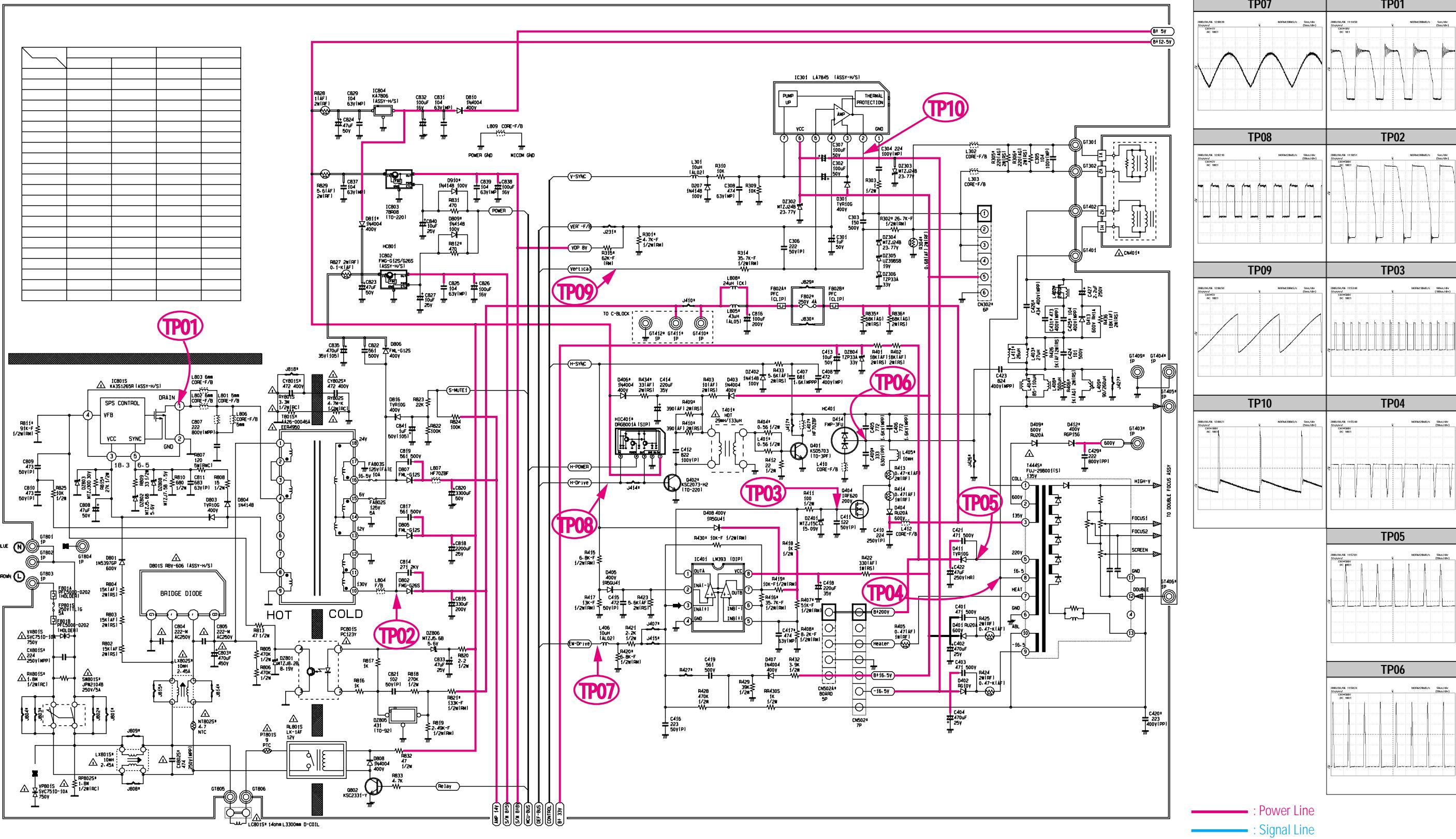
9. Wiring Diagram



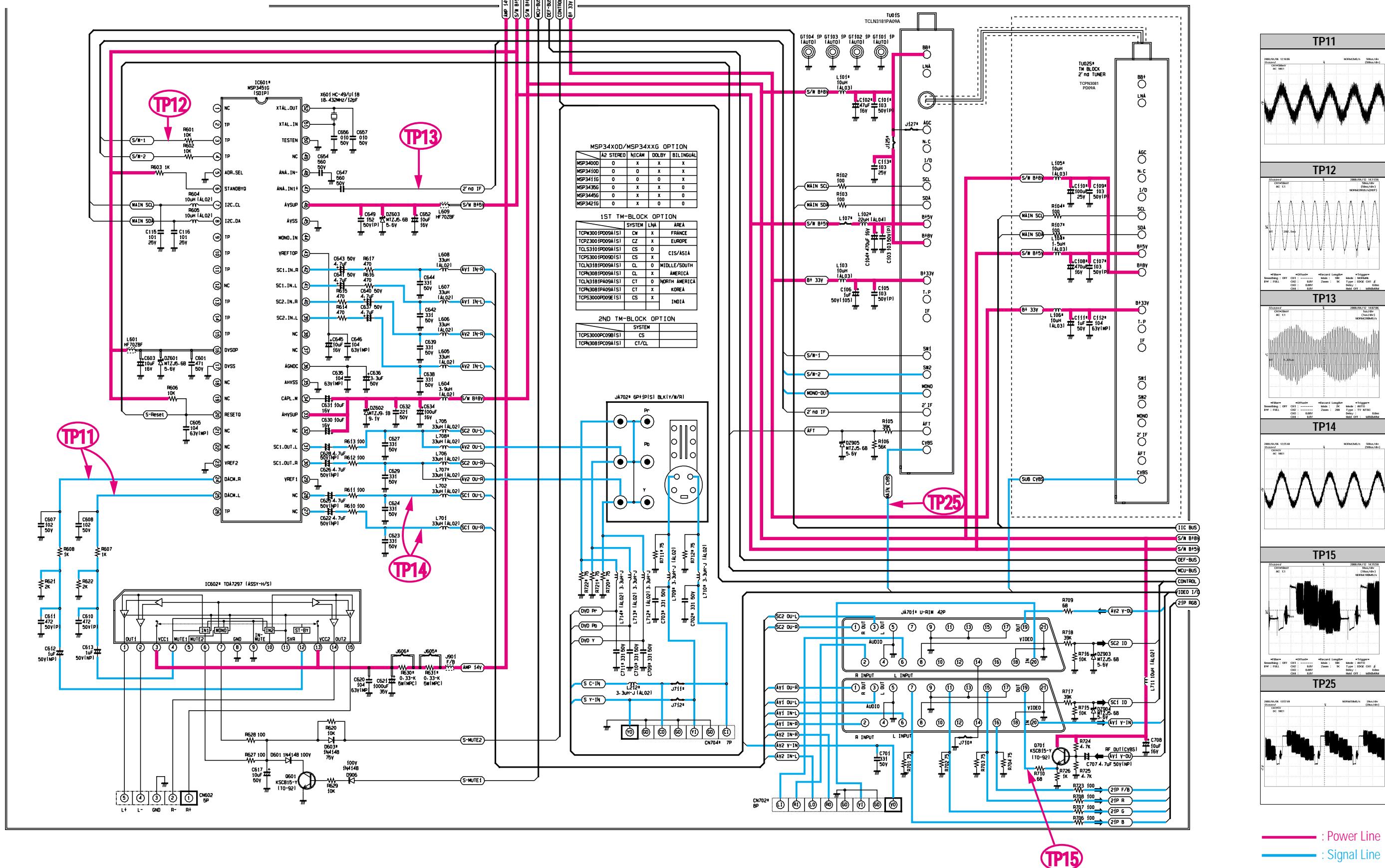
MEMO

10. Schematic Diagrams

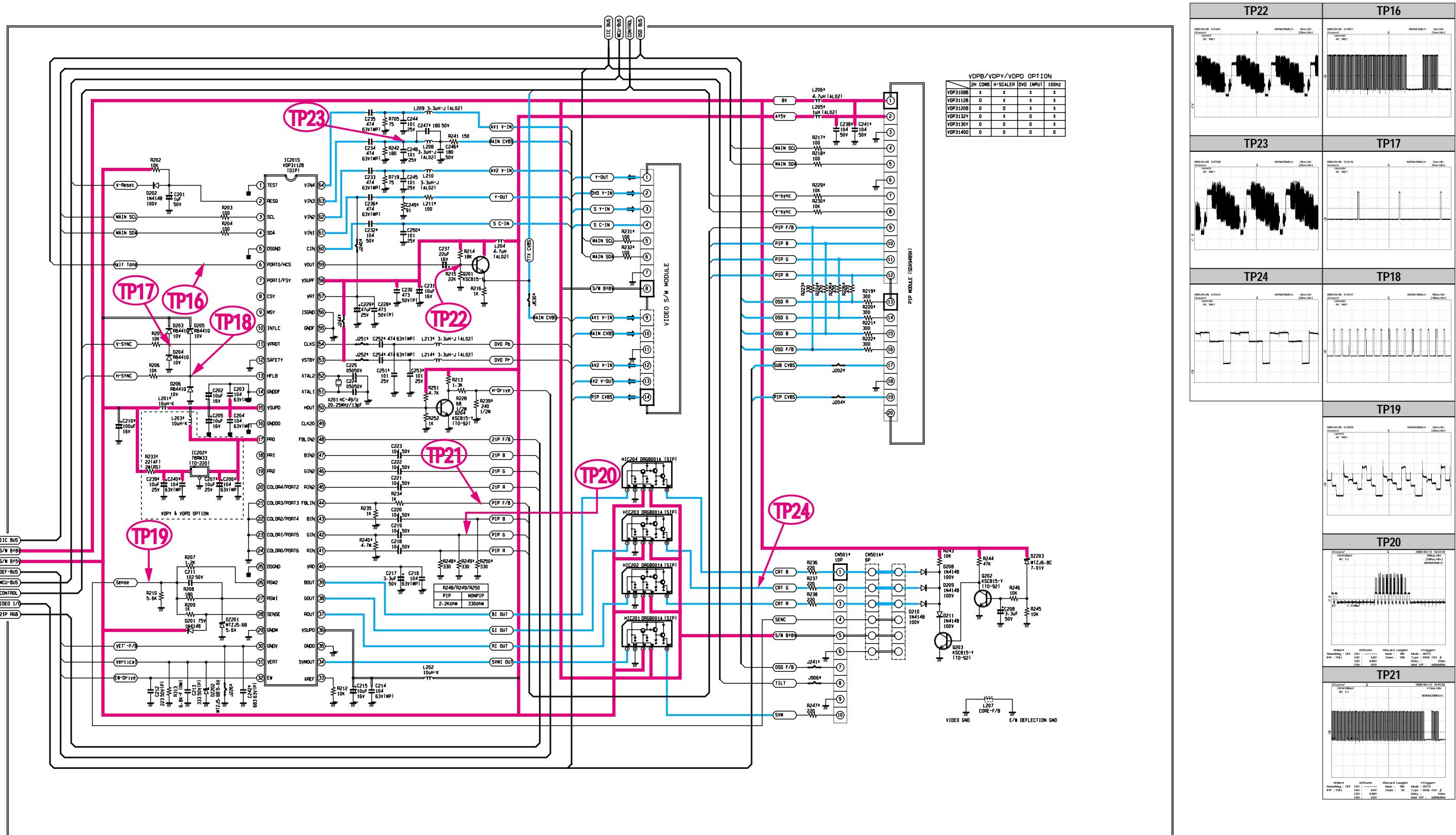
10-1 MAIN 1



10-2 MAIN 2

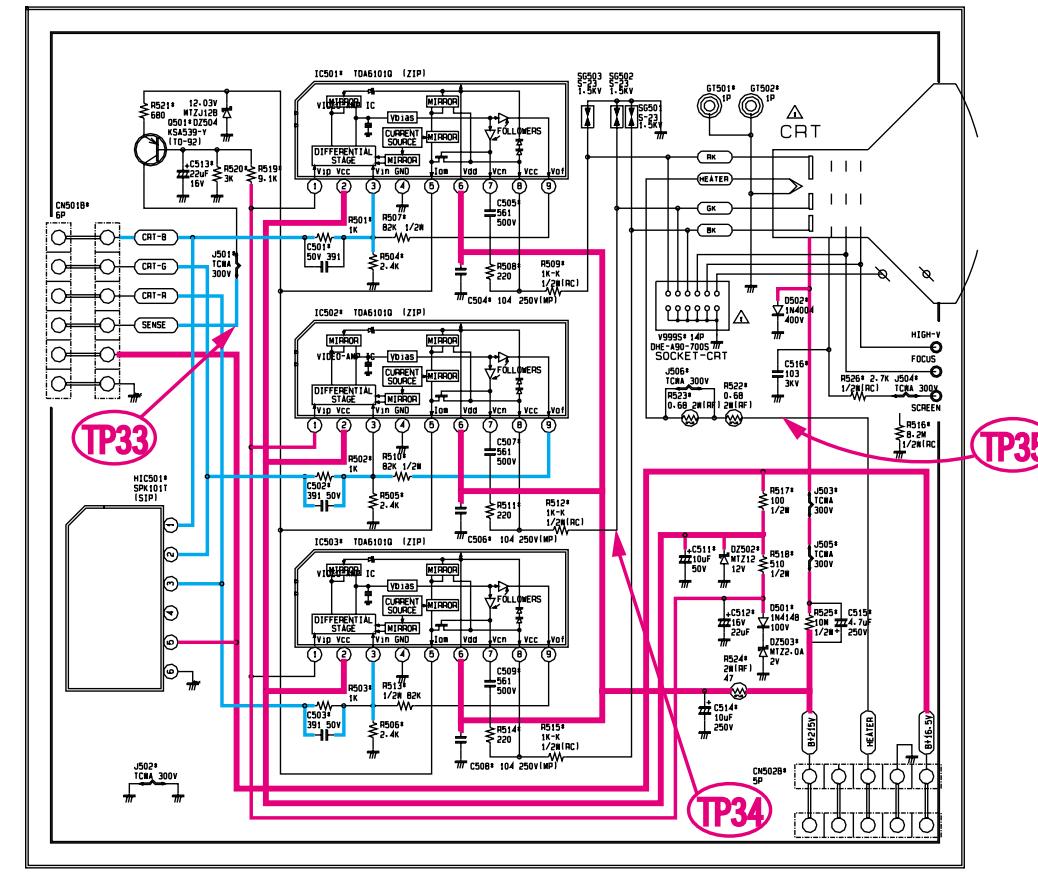
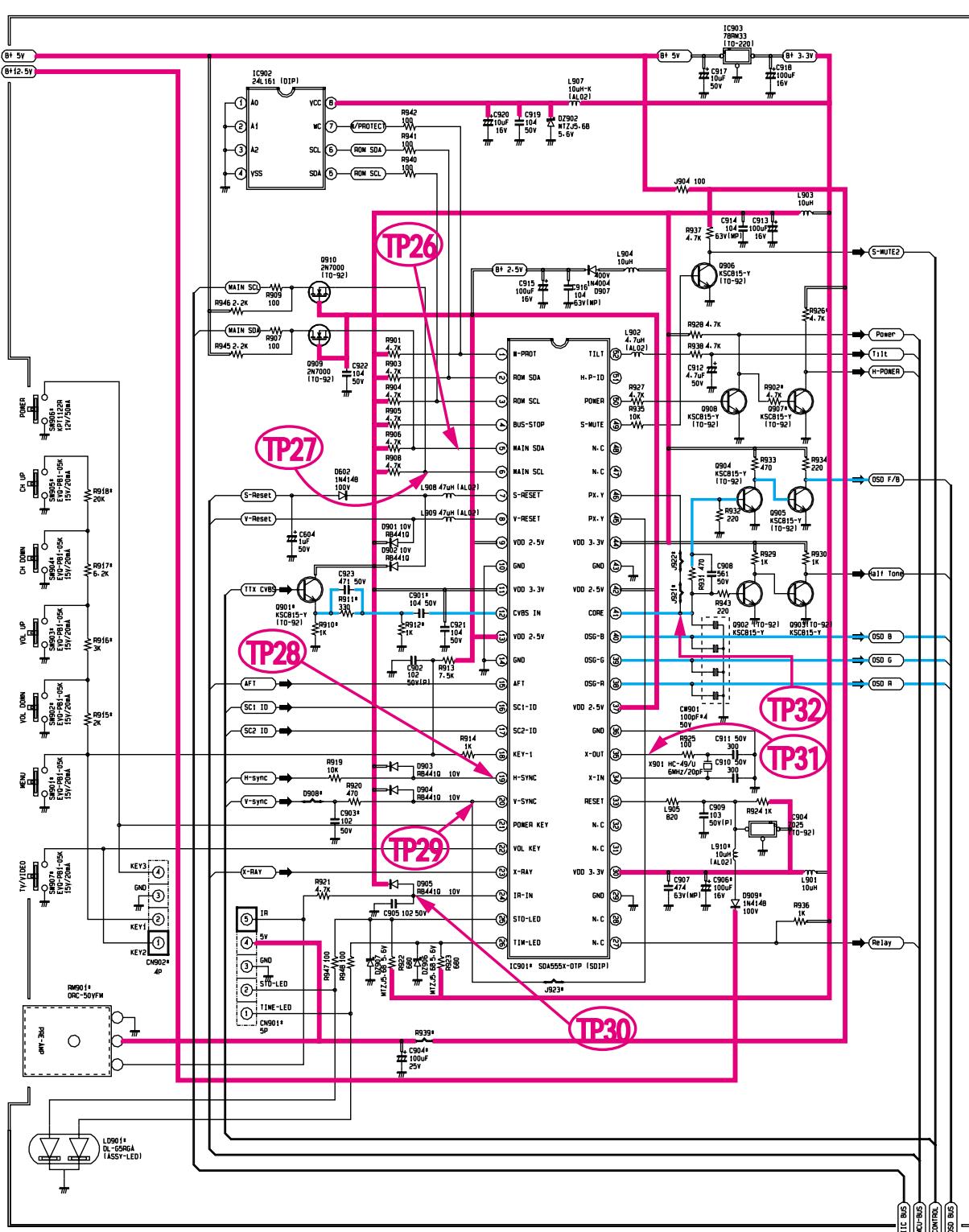


10-3 MAIN3



 : Power Line
 : Signal Line

10-4 MAIN 4



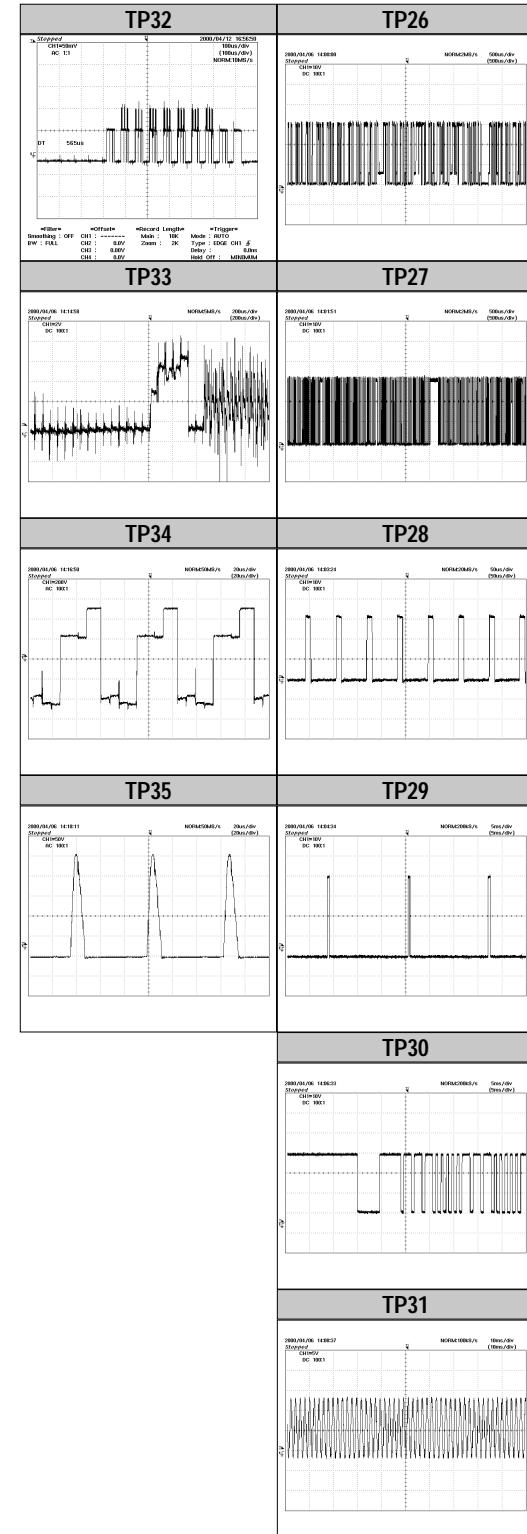
KS3A MAIN SCHEMATIC DIAGRAM

C A P A C I T O R	
Ceramic - SL	No Mark
Ceramic - CH	(CH)
Polyester (Induct)	(P)
Polyester (Noninduct)	(PN)
Polypropylene	(PP)
M. P. Polypropylene	(MP)
Tantalum	(T)
Non Polar	(NP)

R E S I S T O R	
Carbon	No Mark
Composition	(C)
Metal Oxide	(MO)
Metal Film	(MF)
Fusible	(F)
Cement-Wire	(CW)
Network	(N)

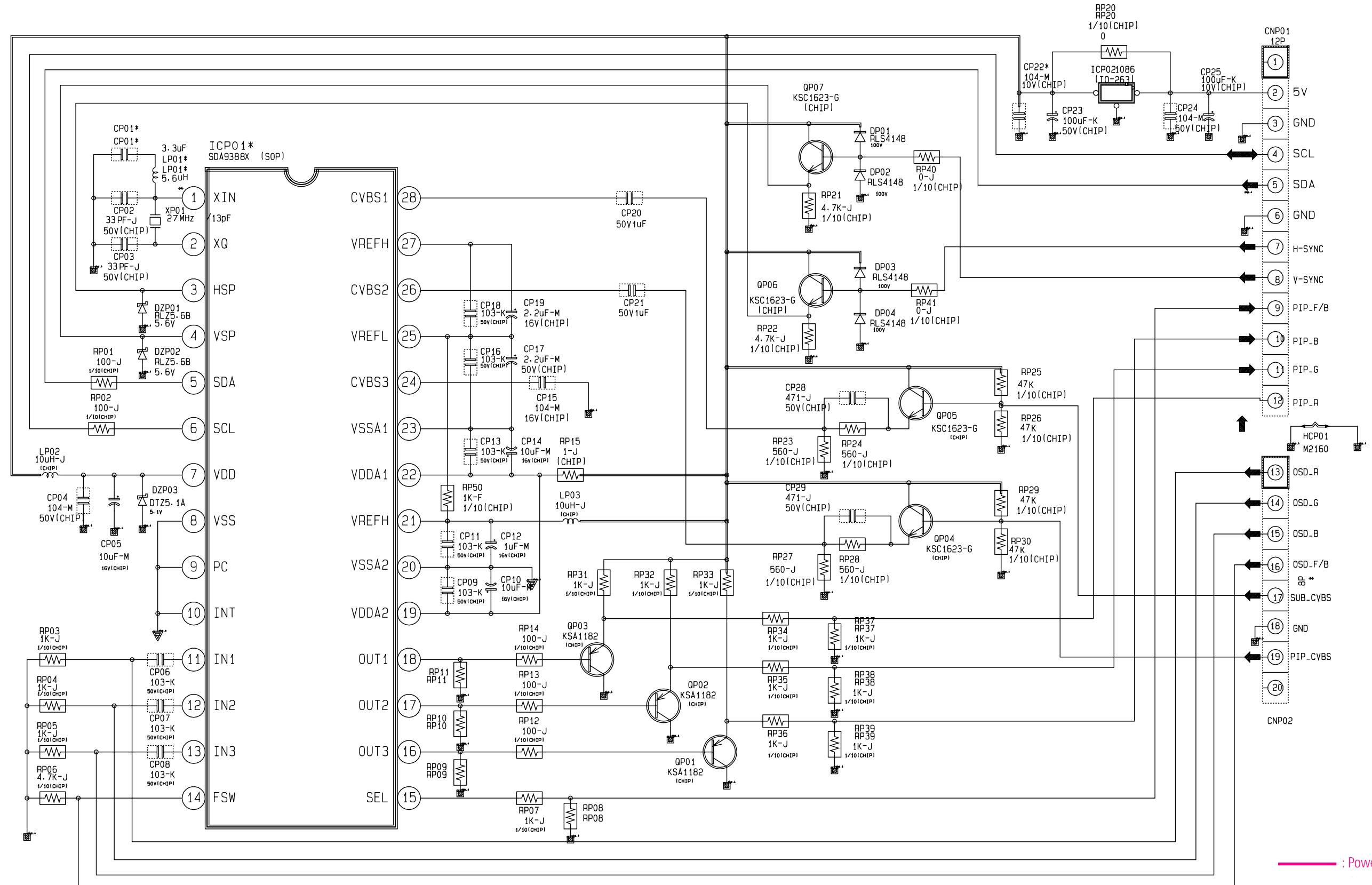
FILE NAME : MAIN

JOB-NO	TEAM	NODE	DESIGN	OPE	EDIT
Dream	KS3A	NC7	Y-K KIM		2000/06/22



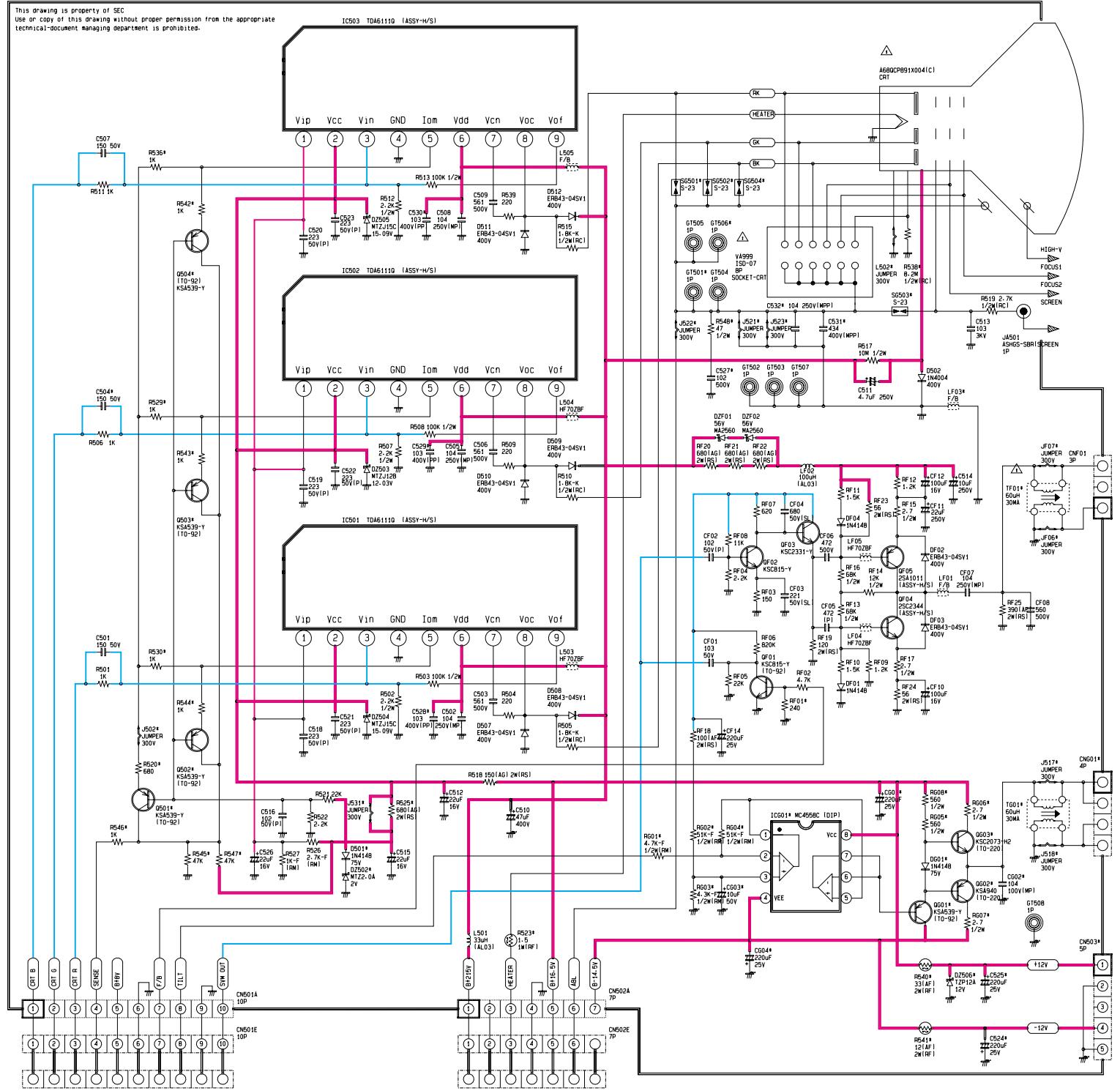
: Power Line
 : Signal Line

10-5 PIP

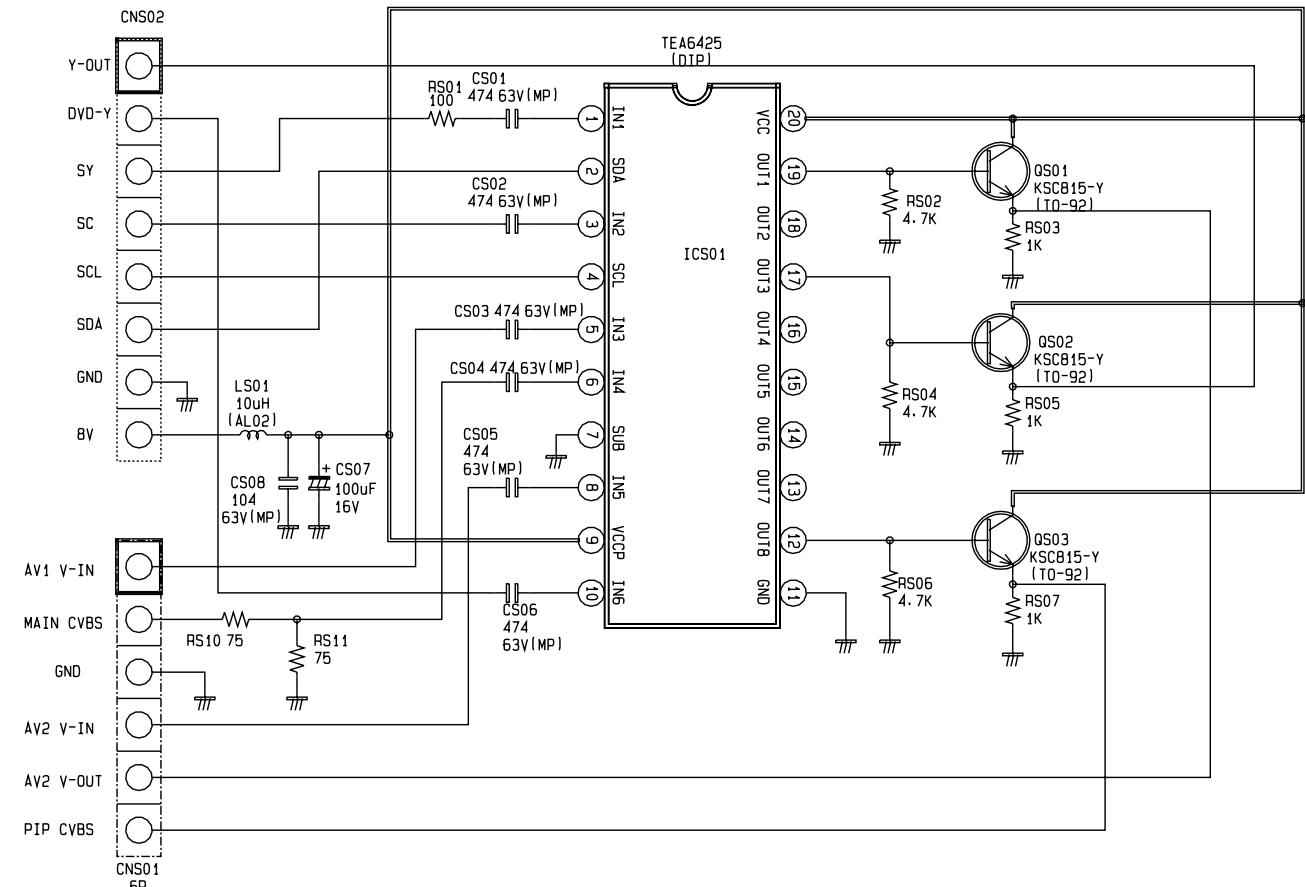


10-6 CRT, SWITCH

CRT



SWITCH



— : Power Line
— : Signal Line