

SAMSUNG

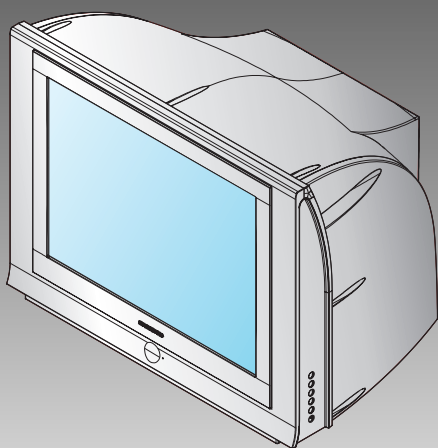
COLOR TELEVISION RECEIVER

Chassis : K55A(P)

Model : CS29Z6HPGX/BWT

SERVICE *Manual*

COLOR TELEVISION RECEIVER



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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.

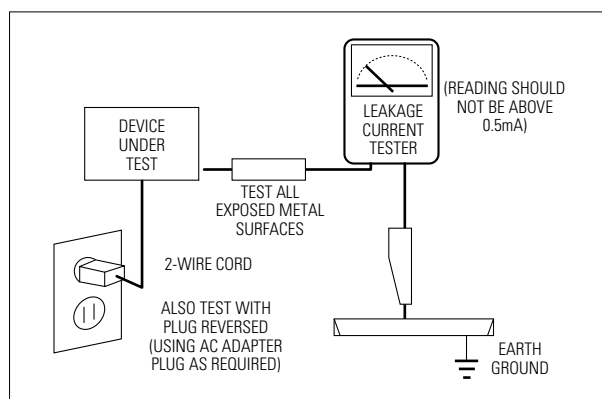


Fig. 1-1 AC Leakage Test

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.

CAUTION

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

2. Reference Information

2-1 Tables of Abbreviations and Acronyms

Table 2-1 Abbreviations

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

Table 2-2 Table of Acronyms

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

2-2 IC Line Up

Table 2 - 3 IC Line - Up					
NO	BOARD	LOC. NO	PART NUMBER	IN NAME	DESCRIPTION
1	MAIN	IC901	A09-00041A	SDA555X-OTP	IC-MCU
		HIC401	AA13-AAA94A	DDRI001A	IC HYBRID
		TU02S	A40-00084A	TCPS300PC16B(S)	TUNER-F/S
		IC06	1203-002000	DETECTOR;7027	IC-VOL
		IC805	1203-001006	78R05	IC-VOLTAGE REGULATOR
		HC401	0502-001230	FJL6920YDTU	TR-POWER
		D801S	0402-001399	GSIB660	DIODE-BREDGE
		HC801	1230-001006	78R05	IC-VOLTAGE REGULATOR
		IC602	1201-001385	7269A	IC-POWER AMP
		IC801S	1203-002512	KA5Q1565RF	IC-PWM CONTROLLER
		IC301	1204-000517	LA7845	IC-VERTICAL DEF
		IC902	1103-001177	24WC16	IC-EEPROM
		IC401	1202-000103	393, DIP, 8P	IC-VOLTAGE COMP
		IC803	1203-001225	78R09	IC-POSLFIXED REG
		IC601	1204-001971	MSP3411G-B11	IC-SOUND PROCESSOR
		TU01S	AA40-00083A	TCLS3101PD16A(S)	TUNER-F/S
		IC402	1203-000243	7812A	IC-POSLFIXED REG
		IC804	1203-001217	431	IC-POSLADJUST REG
		IC904	1203-001943	7025	IC-VOL DETECTOR
		IC202	1203-001944	78RM33	IC-POSLFIXED REG
		Q402	0505-001116	BUZ73A	FET-SILICON
		IC903	1203-001944	78RM33	IC-POSLFIXED REG
2	F-BOX	IC06	1203-002000	7027	IC-VOL DETECTOR
		IC11	0801-000662	74HC123	IC-CMOS LIGIC
		IC03	1001-001082	BA7657F	IC-VIDEO SWITCH
		IC10	1001-001177	TEA6425D	IC-VIDEO SWITCH
		IC05	203-002186	18, DPAK	IC-POSLFIXED REG
		IC02	1204-001814	CXA2151Q	IC-SELECTOR
		IC01	1204-001938	VSP9407B-B11	IC-ECODER
		IC04	1204-001989	CXA2165Q	IC-VIDEO PROCESS

Table 2 - 3 IC Line - Up

NO	BOARD	LOC. NO	PART NAME	IC NAME	DESCRIPTION
3	CRT	QF10	0502-000153	SC2344-D	TR-POWER
		QF09	0502-000131	2SA1011-D	TR-POWER
		IC501	1201-001131	6111Q	IC-VIDEO AMP
		IC502	1201-001131	6111Q	IC-VIDEO AMP
		IC503	1201-001131	6111Q	IC-VIDEO AMP
		IC504	1201-000010	2030	IC-OP AMP
4	MICOM 200PAGE -TTX (Europe)	ICM02	1102-001133	M27W201	IC-EPROM
		ICM04	1203-001943	7025	IC-VOL, DETECTOR
		ICM04	1106-001367	K6R4008CIC	IC-SRAM
		ICM01	1204-001912	SDA5550M	IC-DECODER

3. Specifications

Broadcasting System	PAL/SECAM/NTSC
Tuning System	Electronic Remote Control System
Receiving Channels	VHF(CH2 ~ 12)
	UHF(CH21 ~ 69)
	CATV(S1 ~ S41)
Antenna Input Resistance	VHF, UHF 75 unbalanced
Intermediate Frequency	Video : 38.9MHz
	Sound : 33.4MHz
	Chrominance Subcarrier : 34.47MHz
Power Supply	AC 160V ~ 300V or AC 100V ~ 240V, 50Hz

MEMO

4. Alignment and Adjustments

4-1 Adjustments

4-1-1 General Alignment Instructions

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

Note :

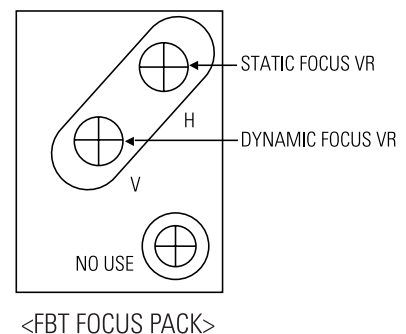
1. This '4. Alignment and Adjustments' applies to K55A chassis applications.
2. AC Power Supply: 160~300V or 100~240V, 50Hz
3. This service manual has been written on the basis of domestic remote-control model adopting K55A chassis. Depending on sales location and product specifications, some of specifications herein may be changed.

4-1-2 Focus Adjustment

K55A contains a dynamic focus circuit. When CRT PCB, FBT or CRT is replaced, be sure to adjust in the following sequence:

Dynamic Focus Adjustment

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



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



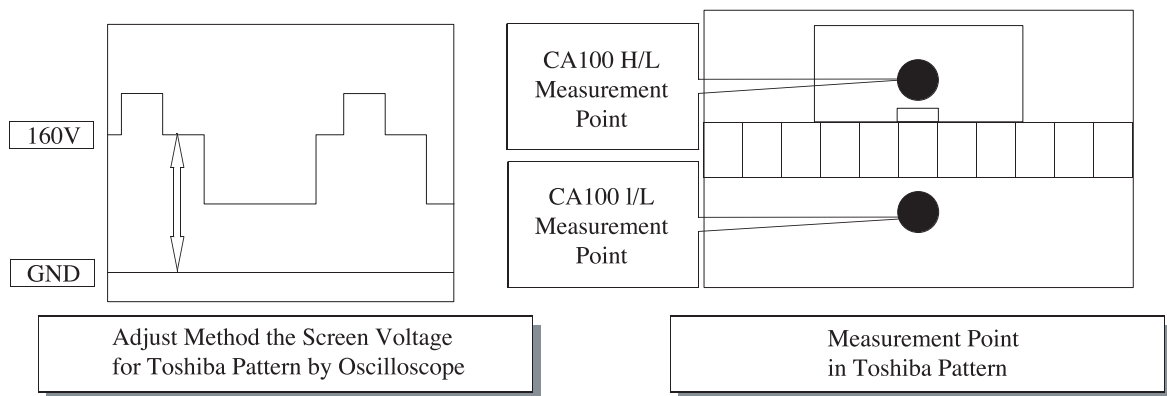
7. Check for the FOCUS of entire screen. If necessary, re-do adjustments 3~6.

4-1-3 Screen Voltage Adjustment

1. Input a Toshiba pattern.
2. Use an oscilloscope to identify RK, BK, GK. And then adjust FBT Screen VR so that the voltage of pedestal level doesn't exceed 160V.
If a Toshiba pattern is not available, cancel the blue screen and input "No Signal" to AV IN so the voltage of pedestal level doesn't exceed 175V.
If an oscilloscope is not available, use a DC multi-meter in No Signal (black screen) to adjust RK, BK, GK so that the highest voltage becomes 160Vp-p.

4-1-4 White Balance Adjustment

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



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

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

4-2 MICOM PORT

PIN	FUNCTION	FIRST STATE	ASSIGNMENT												
1	W-PORT	HIGH	RESET Control jack during E ² PROM latch UP(Function:Low)SERIAL H												
2	ROM SDA	SERIAL H	E ² PROM only SDA LINE												
3	ROM SCL	SERIAL H	E ² PROM only SDA LINE												
4	BUS-STOP	HIGH	Automation and after-sales service related BUS STOP(STOP : LOW)												
5	MAIN SDA	SERIAL H	CXA2165 /CXA2151Q/VSP940X/BA7654F/MSP34XX/TUNER Control jack												
6	MAIN SCL	SERIAL H	CXA2165 /CXA2151Q/VSP940X/BA7654F/MSP34XX/TUNER Control jack												
7	S-RESET	HIGH	Reset when MSP34XX IC(SOUND PROCESS IC)has an error(Active : LOW)												
8	V-RESET	HIGH	Reset when VSP940X IC(1-chip IC)has an error												
9	VDD 2.5V	HIGH													
10	GND		Analog GND												
11	VDD3.3V	HIGH													
12	CVBS IN	IV p-p	TTX and USA Caption Input source line(1V p-p)												
13	VDD2.5V	HIGH													
14	GND														
15	AFT		Main AFT Control jack(0 ~ 3.3V)												
16	SC1-ID		<table><tr><th rowspan="2"></th><th rowspan="2">TV MODE</th><th colspan="2">AV MODE</th></tr><tr><th>16 : 9 MODE</th><th>4 : 3 MODE</th></tr><tr><td>RANGE</td><td>0 ~ 2V</td><td>4.5 ~ 7V</td><td>9.5 ~ 12V</td></tr></table>		TV MODE	AV MODE		16 : 9 MODE	4 : 3 MODE	RANGE	0 ~ 2V	4.5 ~ 7V	9.5 ~ 12V		
	TV MODE	AV MODE													
		16 : 9 MODE	4 : 3 MODE												
RANGE	0 ~ 2V	4.5 ~ 7V	9.5 ~ 12V												
17	SC2-ID														
18	KEY-1	HIGH	<table><tr><th>16 : 9 MODE</th><th>MEMU</th><th>VOL-</th><th>VOL+</th><th>CH-</th><th>CH+</th></tr><tr><td>0 ~ 2V</td><td>0~0.1V</td><td>0.1~0.7V</td><td>07~13V</td><td>1.3~1.9V</td><td>0.9~2.4V</td></tr></table>	16 : 9 MODE	MEMU	VOL-	VOL+	CH-	CH+	0 ~ 2V	0~0.1V	0.1~0.7V	07~13V	1.3~1.9V	0.9~2.4V
16 : 9 MODE	MEMU	VOL-	VOL+	CH-	CH+										
0 ~ 2V	0~0.1V	0.1~0.7V	07~13V	1.3~1.9V	0.9~2.4V										
19	H-SYNC	POSITIVE	MICOM “H-SYNC” Input, POSITIVE Input(3.3V p-p)												
20	V-SYNC	POSITIVE	MICOM “V-SYNC” Input, POSITIVE Input(3.3V p-p)												
21	KEY-3	HIGH	OPEN												
22	KEY-2	HIGH	TV/VIDEO switching control jack												
23	X-RAY	HIGH	Function : LOW												
24	IR-IN		Remote Control Input Jack												
25	STD-LED	HIGH	STAND BY : Hight, OFF : LOW												
26	TIM-LED	LOW	TIME ON : H TIME OFF : L												
27	RELAY		DEGAUSSIGN COIL CONTROL:Based on standard specifications												
28	SW1	HIGH	H : IN1, L : IN2(BA7657F) PIN(#16) Control jack												
29	GND														
30	VDD 3.3V	HIGH													
33	RESET	LOW													
34	X-IN		Reset active : HIGH												
35	X-OUT		Crystal oscillation input jack												

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

4-3 Factory Adjustment

4-3-1 Factory Adjustment values

SERVICE
Deflection
480P Offset
1080i Offset
Video Adjust1
Video Adjust2
Video Adjust3
Option
YC Delay
EEPROM
Reset

4-3-2 EUROPE & CIS Factory Data

DEFLECTION : PAL

	50	45	50	37	37	H/L : 285/285 29" CIS, EU W/B COORDINATE
	2.5	2	2.5	1.8	1.5	L/L : 285/285
ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
V-AMP	33	33	26	33	41	Vertical AMP adj(Gain Control)
V-SHIFT	28	28	24	28	26	Vertical Position adj(DC bias adj)
H-EW	26	32	17	26	36	Horizontal AMP adj(Gain Control)
H-SHIFT	0	0	26	0	21	Horizontal Position adj(DC bias adj)
V-LIN(Fix)	9	9	9	9	11	Vertical Linearity adj(Top/Bottom adj)
UP-LIN(Fix)	9	9	9	9	9	Vertical Linearity adj(Top adj)
LOW-LIN(Fix)	4	3	2	4	1	Vertical Linearity adj(Bottom adj)
V-SC(Fix)	3	1	3	3	0	Vertical S correction adj
H-PAR	38	38	51	38	19	Horizontal pin distortion adj
UP-COR	25	25	35	25	33	Horizontal pin distortion up adj
LOW-COR	31	31	36	31	33	Horizontal pin distortion low adj
H-TRA	18	18	42	18	43	Horizontal Tapezium distortion adj
BOW	33	33	31	33	33	Vertical line slope adj(parabola)
ANGLE	28	28	30	28	28	Vertical Linearity adj(sawtooth)
V-POSI(Fix)	35 -> 40	40	40	35 -> 40	40	V-Position adj as to CRT inch

 DEFLECTION : NTSC

ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
V-AMP	-7	-7	-7	-7	0	Vertical AMP adj(Gain Control)
V-SHIFT	-4	-4	-4	-4	-1	Vertical Position adj(DC bias adj)
H-EW	5	5	5	5	1	Horizontal AMP adj(Gain Control)
H-SHIFT	30	30	30	30	3	Horizontal Position adj(DC bias adj)
V-LIN	-4	-4	-4	-4	-4	Vertical Linearity adj(Top/Bottom adj)
UP-LIN	-1	-1	-1	-1	-1	Vertical Linearity adj(Top adj)
LOW-LIN	3	3	3	3	3	Vertical Linearity adj(Bottom adj)
V-SC	0	0	0	0	0	Vertical S correction adj
H-PAR	8	8	8	8	1	Horizontal pin distortion adj
UP-COR	7	7	7	7	2	Horizontal pin distortion up adj
LOW-COR	3	3	3	3	-1	Horizontal pin distortion low adj
H-TRA	7	7	7	7	0	Horizontal Tapezium distortion adj
BOW	-1	-1	-1	-1	0	Vertical line slope adj(parabola)
ANGLE	-1	-1	-1	-1	0	Vertical Linearity adj(sawtooth)
V-POSI	0	0	0	0	0	V-Position adj as to CRT inch



Video Adjust 1

ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
R-Cutoff	41	41	46	41	41	R-cutoff control adj
G-Cutoff(Fix)	25	25	32	32	32	G-cutoff control adj
B-Cutoff	28	28	18	28	38	B-cutoff control adj
Color on/off	1	1	1	1	1	initial : "0" -> 1
CR offset	32	32	32	32	32	DC-offset canceling adjust
CB offset	32	32	32	32	32	DC-offset canceling adjust
R-Drive	37	37	46	37	40	R-Drive control adj
G-Drive(Fix)	32	32	32	32	32	G-Drive control adj
B-Drive	32	32	26	32	38	B-Drive control adj
Sub-Bright	32	32	40	32	47	Sub-Bright control
Sub-Contrast	7	7	7	7	7	Sub-Contrast control
Sub-Color(Fix)	15	15	10	15	15	color gain control(PAL SETTING AGAIN)
Sub-TInt(Fix)	28	28	28	28	28	HUE control
CTI-Level(Fix)	1	1	1	1	1	Chrominance Transient Improvement
COL AXIS(Fix)	1	1	1	1	1	color detection axis setting(NTSC/USA)
LTI-Level(Fix)	1	1	1	1	1	Luminance Transient Improvement
VSU(Fix)	2	2	2	2	2	vertical osd position
Merody Volume(Fix)	7	7	7	7	7	Volume gain control

 Video Adjust 2

ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
ABL Mode	3	3	3	3	3	Rpicture/bright ABL gain control
Gamma	2	2	2	2	2	RGB output correction control
DPIC Level	3	3	3	3	3	Dynamic picture black expansion control
DC Trans	3	3	3	3	3	Y-System DC transmission ratio
ABL-TH	14	15	14	14	14	Threshold voltage adj ABL-IN
VM-Level	1	1	1	1	1	VM-OUT Level control
VM-Coring	2	2	2	2	2	VM-OUT coring control
VM-f0	2	2	2	2	2	VM-f0 control
VM-Limit	2	2	2	2	2	VM-Limit level control
VM-Delay	3	3	3	3	3	VM-OUT phase control(reference to R-OUT)
SHP CD	1	1	1	1	1	Sharpness gain control(color saturation)
SHP f0	0	0	0	0	0	Sharpness f0 control (3Mhz)
SHP f1&p/o	8	8	8	8	8	Sharpness gain control(PAL SETTING AGAIN)
AKB Time	13	13	13	13	13	AKB Bch reference pulse time control
Bandpass	17h	17h	17h	17h	17h	VSP9407B Band pass filter
Highpass	23h	23h	23h	23h	23h	VSP9407B High pass filter

 Video Adjust 3

ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
H comp	7	8	4	7	6	H-EHT compensation setting(PAL SETTING AGAIN)
V comp	4	5	4	4	4	V-EHT compensation setting(PAL SETTING AGAIN)
PIN comp	2	2	7	7	2	PIN-EHT compensation setting(PAL SETTING AGAIN)
AFC comp	0	0	0	0	0	AFC-EHT compensation
sync phase	0	0	0	0	0	WHEN USED 74HC123
NR Value	6	6	6	6	6	PAL SETTING AGAIN

**Option Byte(CIS Model)**

ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
Language	CIS	CIS	CIS	NON	NON	CIS/ARAB
SOUND	V-DOLBY	V-DOLBY	V-DOLBY	V-DOLBY	V-DOLBY	V-DOLBY/A2-NICAM
CRT	4:3	WIDE	4:3	WIDE	WIDE	
AV JACK	SCART	SCART	SCART	SCART	SCART	SCART(CIS,EUROPE)/RCA(ASIA,AUSTRALIA)
AUTO FM	ON	ON	ON	ON	ON	ON/OFF
PIP	ON	ON	ON	ON	ON	ON/OFF(W/O PIP MODEL)
TXT LANGUAGE	ON	ON	ON	WESTERN EUROPE	WESTERN EUROPE	OPTION
LNA	ON	ON	OFF	ON	ON	ON/OFF(1 TUNER)
HIGH DEVIATION	OFF	OFF	OFF	OFF	OFF	OFF/ON(INDIA)
AV BY CH KEY	OFF	OFF	OFF	OFF	OFF	OFF/ON
DTV	OFF	OFF	OFF	OFF	OFF	OFF/ON
VGA	OFF	OFF	OFF	OFF	OFF	OFF/OFF
AGC	OFF	OFF	OFF	OFF	OFF	OFF/ON
WOOFER	OFF	OFF	NON	OFF	OFF	OFF/ON
SPEAKER	NON	NON	NON	DOME SPK	DOME SPK	EQ CURVE(DOME/NON DOME SPK)
TTX TOP	NON	NON	NON	OFF	OFF	OFF/ON
HELP	NON	NON	NON	OFF	OFF	OFF/ON
TTX ON/OFF	NON	NON	NON	ON	ON	OFF/ON
TTX LIST PRIORITY	NON	NON	NON	NON	NON	OFF/ON



ITEMS	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
P.YC(AV) DELAY	1	1	1	2	2	
S.YC(AV) DELAY	-5	-5	-5	-5	-5	
N.YC(AV) DELAY	2	2	2	4	4	
P.BG.YC DELAY	0	0	0	4	4	
P.DK.YC DELAY	-2	-2	-2	2	2	
P.I.YC DELAY	-1	-1	-1	1	1	
P.M.YC DELAY	0	0	0	0	0	
P.L.YC DELAY	0	0	0	0	0	
S.BG.YC DELAY	-6	-6	-6	-2	-2	
S.DK.YC DELAY	-9	-9	-9	-7	-7	
S.I.YC DELAY	-9	-9	-9	-9	-9	
S.L.YC DELAY	0	0	0	-5	-5	
N.M.YC DELAY	0	0	0	0	0	

 EUROPE & CIS EEPROM Data

F-No	Factory Control Name	Range	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
0	UP-UCG(up corner semi control)	0~3	1	0	0	0	0	
1	LO-UCG(low corner semi control)	0~3	1	0	0	0	0	
2	LTI Mode	0~3	2	2	2	1	1	
3	System	0~3	1	1	1	2	2	
4	50 Hz Progressive Trapezium	0~255	6	5	13	6	5	
5	60 Hz Progressive Trapezium	0~255	7	7	11	7	7	
6	Dynamic Contrast	0~100	70	70	100	70	100	
7	Dynamic Brightness	0~100	40	40	40	50	50	
8	Dynamic Sharpness	0~100	60	60	60	40	40	
9	Dynamic Color	0~100	60	70	60	60	60	
10	Dynamic ColorTone	0~100	50	50	50	50	50	
11	Dynamic Tint	0~100	50	50	50	50	50	
12	Standard Contrast	0~100	40	50	60	50	80	
13	Standard Brightness	0~100	40	40	42	45	50	
14	Standard Sharpness	0~100	50	50	50	40	40	
15	Standard Color	0~100	50	60	50	50	50	
16	Standard ColorTone	0~100	50	50	50	50	50	
17	Standard Tint	0~100	50	50	50	50	50	
18	Movie Contrast	0~100	30	35	40	40	60	
19	Movie Brightness	0~100	40	40	40	45	50	
20	Movie Sharpness	0~100	50	50	50	40	40	
21	Movie Color	0~100	45	55	45	45	45	
22	Movie ColorTone	0~100	50	50	50	50	50	
23	Movie Tint	0~100	50	50	50	50	50	
24	PROGRESSIVE TTX V-POSITION	0~255	76	78	76	76	76	
25	PROGRESSIVE TTX H-POSITION	0~255	186	187	184	186	190	
26		0~100	255	255	255	255	255	
27		0~100	255	255	255	255	255	
28		0~100	255	255	255	255	255	
29		0~100	255	255	255	255	255	
30	Brightness(RGB/DVD)	0~255	0	0	0	0	0	
31	Contrast(RGB/DVD)	0~255	124	124	124	124	124	
32	U Saturation(RGB/DVD)	0~255	125	125	125	125	125	

F-No	Factory Control Name	Range	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
33	V saturation(RGB/DVD)	0~255	248	248	248	248	248	
34	9407 Y Gain	0~255	93	93	93	80	80	
35	9407 U Gain	0~255	83	83	83	71	71	
36	Luminance Delay(Fixed Value)	0~255	8	8	8	8	8	
37	9407 V Gain	0~255	82	82	82	70	70	
38	Start Value of Lum LUT(Main)-NR_ON	0~255	255	255	255	255	255	
39	Noise Reduction(Main)-NR_ON	0~255	102	102	102	102	102	
40	Start Value of Lum LUT(PIP)-NR_ON	0~255	255	255	255	255	255	
41	Noise Reduction(PIP)-NR_ON	0~255	102	102	102	102	102	
42	Vertical End of Clamping Pulse	0~255	28	28	28	28	28	
43	SECAM Color Sensitivity(Main)	0~255	28	28	28	28	28	
44	Vertical End of Clamping Pulse	0~255	28	28	28	28	28	
45	SECAM Color Sensitivity(PIP)	0~255	28	28	28	28	28	
46	Left Blanking	0~255	147	147	147	147	147	
47	Right Blanking	0~255	153	153	153	153	153	
48	S-ABL	0~255	0	0	0	0	0	
49	P-ABL	0~255	48	64	48	48	48	
50	Start Value of Lum LUT(Main)-NR_OFF	0~255	255	255	255	255	255	
51	Noise Reduction(Main)-NR_OFF	0~255	255	255	255	255	255	
52	Start Value of Lum LUT(PIP)-NR_OFF	0~255	255	255	255	255	255	
53	Noise Reduction(PIP)-NR_OFF	0~255	255	255	255	255	255	
54	Picture Limit Level	0~3	3	3	3	3	3	
55	OSD LEVEL(LRGB2_LEV)	0~15	7	7	10	7	7	
56	TTX LEVEL(LRGB2_LEV)	0~15	0	0	0	5	5	
57	Left Blanking (480p)	0~255	0	0	0	0	0	
58	Right Blanking (480p)	0~255	0	0	0	0	0	
59	Left Blanking (1080i)	0~255	0	0	0	0	0	
60	Right Blanking (1080i)	0~255	0	0	0	0	0	
61	System (480p)	0~3	0	0	0	0	0	
62	System (1080i)	0~3	0	0	0	0	0	
63	CrCb Gain (480p)	0~255	0	0	0	0	0	
64	CrCb Gain (1080i)	0~255	0	0	0	0	0	
65	LTI Mode (480p)	0~3	0	0	0	0	0	

F-No	Factory Control Name	Range	29" CIS SDI CRT	32" CIS SDI CRT	34" CIS TOS CRT	29" EUR SDI CRT	32" EUR PHI CRT	REMARK
66	LTI Mode (1080i)	0~3	0	0	0	0	0	
67	TTX V Position	0~255	37	37	37	37	38	
68	TTX H Position	0~255	186	188	185	186	190	
69	16 PIP UPPER CORNER OFF SET	0~255	2	4	3	2	4	
70	16 PIP LOWER CORNER OFF SET	0~255	1	0	3	1	0	
71	4:3 Normal Parabola	0~255	0	0	0	0	0	

4-3-3 AISA Factory Data



DEFLECTION : PAL

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
V-AMP	35	24	39	Vertical AMP adj(Gain Control)
V-SHIFT	22	27	27	Vertical Position adj(DC bias adj)
H- EW	40	34	31	Horizontal AMP adj(Gain Control)
H-SHIFT	22	21	17	Horizontal Position adj(DC bias adj)
V-LIN	7	9	9	Vertical Linearity adj(Top/Bottom adj)
UP-LIN	9	9	9	Vertical Linearity adj(Top adj)
LOW-LIN	4	3	4	Vertical Linearity adj(Bottom adj)
V-SC	1	1	3	Vertical S correction adj
H-PAR	33	20	39	Horizontal pin distortion adj
UP-COR	18	32	31	Horizontal pin distortion up adj
LOW-COR	27	35	32	Horizontal pin distortion low adj
H-TRA	24	32	36	Horizontal Tapezium distortion adj
BOW	33	32	35	Vertical line slope adj(parabola)
ANGLE	31	30	26	Vertical Linearity adj(sawtooth)
V-POSI	40	40	40	V-Position adj as to CRT inch

 DEFLECTION : NTSC

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
V-AMP	1	2	1	Vertical AMP adj(Gain Control)
V-SHIFT	0	-2	-2	Vertical Position adj (DC bias adj)
H- EW	-2	0	-1	Horizontal AMP adj(Gain Control)
H-SHIFT	10	8	9	Horizontal Position adj (DC bias adj)
V-LIN	-4	-4	-4	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN	-1	-1	-1	Vertical Linearity adj(TOP adj)
LOW-LIN	2	3	2	Vertical Linearity adj(Bottom adj)
V-SC	0	0	0	Vertical S correction adj
H-PAR	1	0	2	Horizontal pin distortion adj
UP-COR	4	1	2	Horizontal pin distortion up adj
LOW-COR	-3	-3	-3	Horizontal pin distortion low adj
H-TRA	4	0	4	Horizontal Trapezium distortion adj
BOW	0	0	1	Vertical line slope adj(parabola)
ANGLE	0	0	-1	Vertical Linearity adj(sawtooth)
V-POSI	0	0	0	V-POSITION ADJ as to CRT INCH

 480p Offset

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
V-AMP	-1	2	-8	Vertical AMP adj(Gain Control)
V-SHIFT	1	-3	2	Vertical Position adj (DC bias adj)
H- EW	8	4	3	Horizontal AMP adj(Gain Control)
H-SHIFT	-9	-7	-9	Horizontal Position adj (DC bias adj)
V-LIN	0	-4	0	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN	0	-1	-1	Vertical Linearity adj(TOP adj)
LOW-LIN	0	3	-3	Vertical Linearity adj(Bottom adj)
V-SC	0	0	2	Vertical S correction adj
H-PAR	0	-4	1	Horizontal pin distortion adj
UP-COR	0	3	-1	Horizontal pin distortion up adj
LOW-COR	0	-3	-1	Horizontal pin distortion low adj
H-TRA	-7	4	3	Horizontal Trapezium distortion adj
BOW	0	0	2	Vertical line slope adj(parabola)
ANGLE	0	1	0	Vertical Linearity adj(sawtooth)
V-POSI	0	0	0	V-POSITION ADJ as to CRT INCH

1080i Offset

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
V-AMP	-14	-1	-4	Vertical AMP adj(Gain Control)
V-SHIFT	2	-2	-1	Vertical Position adj (DC bias adj)
H- EW	6	-10	2	Horizontal AMP adj(Gain Control)
H-SHIFT	4	11	10	Horizontal Position adj (DC bias adj)
V-LIN	0	0	-1	Vertical Linearity adj(TOP/Bottom adj)
UP-LIN	0	0	0	Vertical Linearity adj(TOP adj)
LOW-LIN	0	0	-1	Vertical Linearity adj(Bottom adj)
V-SC	0	0	0	Vertical S correction adj
H-PAR	0	3	-1	Horizontal pin distortion adj
UP-COR	0	5	0	Horizontal pin distortion up adj
LOW-COR	0	3	1	Horizontal pin distortion low adj
H-TRA	0	2	-3	Horizontal Trapezium distortion adj
BOW	0	-1	1	Vertical line slope adj(parabola)
ANGLE	0	1	2	Vertical Linearity adj(sawtooth)
V-POSI	0	0	0	V-POSITION ADJ as to CRT INCH



Video Adjust 1

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
R-Cutoff	41	31	41	R-cutoff control adj
G-Cutoff	32	32	32	G-cutoff control adj
B-Cutoff	28	43	28	B-cutoff control adj
Color on/off	1	1	1	Fixed : "0"--> 1
CR offset	32	32	32	DC-offset canceling adjust
CB offset	32	32	32	DC-offset canceling adjust
R-Drive	37	37	37	R-Drive control adj
G-Drive	32	32	32	G-Drive control adj
B-Drive	32	43	32	B-Drive control adj
Sub-Bright	32	33	32	Sub-Bright control
Sub-Contrast	7	7	7	Sub-Contrast control
Sub-Color	15	15	15	color gain control(PAL SETTING AGAIN)
Sub-Tint	28	28	28	HUE control
CTI-Level	1	1	1	Chrominance Transient Improvement
COL AXIS	1	1	1	color detection axis setting(NTSC/USA)
LTI-Level	1	1	1	Luminance Transient Improvement
VSU	2	2	2	vertical osd position
Merody Volume	4	4	4	Volume gain control

 Video Adjust 2

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
ABL Mode	3	3	3	picture/bright ABL gain control
Gamma	2	2	2	RGB output correction control
DPIC Level	3	3	3	Dynamic picture black expansion control
DC Trans	3	3	3	Y-System DC transmission ratio
ABL-TH	14	15	14	Threshold voltage adj ABL-IN
VM-Level	1	1	1	VM-OUT Level control
VM-Coring	2	2	2	VM-OUT coring control
VM-f0	2	2	2	VM-f0 control
VM-Limit	2	2	2	VM-Limit level control
VM-Delay	3	3	3	VM-OUT phase control(reference to R-OUT)
SHP CD	1	1	1	Sharpness gain control(color satuation)
SHP f0	0	0	0	Sharpness f0 control (3Mhz)
SHP f1&p/o	8	8	8	Sharpness gain control(PAL SETTING AGAIN)
AKB Time	13	13	13	AKB Bch reference pulse time control
Bandpass	17	17	17	VSP9407B Band pass filter
Highpass	23	23	23	VSP9407B High pass filter

 Video Adjust 3

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
H comp	7	6	7	H-EHT compensation setting(PAL SETTING AGAIN)
V comp	4	4	4	V-EHT compensation setting(PAL SETTING AGAIN)
PIN comp	2	2	2	PIN-EHT compensation setting(PAL SETTING AGAIN)
AFC comp	0	0	0	AFC-EHT compensation
sync phase	0	0	0	WHEN USED 74HC123
NR Value	6	6	6	PAL SETTING AGAIN
sync phase(480p)	1	1	1	WHEN USED 74HC123
sync phase(1080i)	0	0	0	WHEN USED 74HC123

 DTV Adjust (480p/1080i)

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
Sub-Bright	19	38	19	
Sub-Contrast	7	7	7	
Sub-Color	15	15	15	
Sub-Tint	28	28	28	
COL AXIS	1	1	1	
LTI-Level	2	2	1	
VM-Level	1	1	1	
VM-Coring	2	2	2	
VM-f0	2	2	2	
VM-Limit	2	2	2	
VM-Delay	3	3	3	
SHP CD	1	1	1	
SHP f0	0	0	0	
SHP f1 & p/o	8	8	8	

 Option Byte(ASIA Model)

ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
Language	Asia	ASIA	ASIA	CIS/ARAB
SOUND	V-DOLBY	V-DOLBY	V-DOLBY	V-DOLBY/A2-NICAM
CRT	4:3	WIDE	4:3	
AV JACK	RCA	RCA	RCA	SCART(CIS,EUROPE)/RCA(ASIA,AUSTRALIA)
AUTO FM	ON	ON	ON	ON/OFF
PIP	ON	ON	ON	ON/OFF(W/O PIP MODEL)
TXT LANGUAGE	ON	ON	ON	RUSSIA/GREEK-TURKEY/ARABIC/FARSI/ ARAB-HEBREW/WEST EUROPE/EAST EUROPE
LNA	ON	ON	ON	ON/OFF(1 TUNER)
HIGH DEVIATION	OFF	OFF	OFF	OFF/ON(INDIA)
AV BY CH KEY	OFF	OFF	OFF	OFF/ON
DTV	ON	ON	ON	OFF/ON
VGA	OFF	OFF	OFF	OFF/OFF
AGC	OFF	OFF	OFF	OFF/ON
WOOFER	OFF	OFF	OFF	OFF/ON (Z7PART : ON, OTHERS : OFF)



ITEMS	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
P.YC(AV) DELAY	1	1	1	
S.YC(AV) DELAY	-5	-5	-5	
N.YC(AV) DELAY	2	2	2	
P.BG.YC DELAY	0	0	0	
P.DK.YC DELAY	-2	-2	-2	
P.I.YC DELAY	-1	-1	-1	
P.M.YC DELAY	0	0	0	
P.L.YC DELAY	0	0	0	
S.BG.YC DELAY	-6	-6	-6	
S.DK.YC DELAY	-9	-9	-9	
S.I.YC DELAY	-9	-9	-9	
S.M.YC DELAY	0	0	0	
S.L.YC DELAY	0	0	0	
N.M.YC DELAY	0	0	0	

High Voltage(kV)		30.64kV	31.62kV	Lion-head(Dynamic mode)
		33.8kV	33.97kV	
Beam Current(mA)		1.833mA	1.82mA	

ASIA EEPROM Data

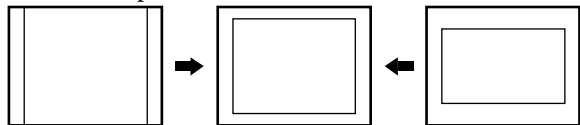
F-No	Factory Control Name	Range	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
0	UP-UCG(up corner semi control)	0~3	1	0	1	
1	LO-UCG(low corner semi control)	0~3	1	0	1	
2	LTI Mode	0~3	2	2	2	
3	System	0~3	1	1	1	
4	50 Hz Progressive Trapezium	0~63	6	7	6	
5	60 Hz Progressive Trapezium	0~63	7	7	7	
6	Dynamic Contrast	0~100	90	100	90	
7	Dynamic Brightness	0~100	50	50	50	
8	Dynamic Sharpness	0~100	50	50	50	
9	Dynamic Color	0~100	60	60	60	
10	Dynamic ColorTone	0~100	50	50	50	
11	Dynamic Tint	0~100	50	50	50	
12	Standard Contrast	0~100	70	80	70	
13	Standard Brightness	0~100	50	50	50	
14	Standard Sharpness	0~100	50	40	50	
15	Standard Color	0~100	50	50	50	
16	Standard ColorTone	0~100	50	50	50	
17	Standard Tint	0~100	50	50	50	
18	Movie Contrast	0~100	50	60	50	
19	Movie Brightness	0~100	50	50	50	
20	Movie Sharpness	0~100	50	40	50	
21	Movie Color	0~100	45	50	45	
22	Movie ColorTone	0~100	50	50	50	
23	Movie Tint	0~100	50	50	50	
24	PROGRESSIVE TTX V-POSITION	0~255	76	78	76	
25	PROGRESSIVE TTX H-POSITION	0~255	186	187	186	
26	1080i 50Hz OSD V-POSITION	0~255	32	32	32	
27	1080i 50Hz OSD H-POSITION	0~255	255	255	255	
28	1080i 60Hz OSD V-POSITION	0~255	32	32	32	
29	1080i 60Hz OSD H-POSITION	0~255	184	184	184	
30	Brightness(RGB/DVD)	0~255	0	0	0	
31	Contrast(RGB/DVD)	0~255	124	124	124	
32	U Saturation(RGB/DVD)	0~255	125	125	125	

F-No	Factory Control Name	Range	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
33	V saturation(RGB/DVD)	0~255	248	248	248	
34	9407 Y Gain	0~255	93	93	93	
35	9407 U Gain	0~255	83	83	83	
36	Luminance Delay(FIX)	0~255	8	8	8	
37	9407 V Gain	0~255	82	82	82	
38	Start Value of Lum LUT(Main)-NR_ON	0~255	255	255	255	
39	Noise Reduction(Main)-NR_ON	0~255	102	102	102	
40	Start Value of Lum LUT(PIP)-NR_ON	0~255	255	255	255	
41	Noise Reduction(PIP)-NR_ON	0~255	102	102	102	
42	Vertical End of Clamping Pulse	0~255	28	28	28	
43	SECAM Color Sensitivity(Main)	0~255	28	28	28	
44	Vertical End of Clamping Pulse	0~255	28	28	28	
45	SECAM Color Sensitivity(PIP)	0~255	28	28	28	
46	Left Blanking	0~255	147	147	147	
47	Right Blanking	0~255	153	153	153	
48	S-ABL	0~255	0	0	0	
49	P-ABL	0~255	48	48	48	
50	Start Value of Lum LUT(Main)-NR_OFF	0~255	255	255	255	
51	Noise Reduction(Main)-NR_OFF	0~255	255	255	255	
52	Start Value of Lum LUT(PIP)-NR_OFF	0~255	255	255	255	
53	Noise Reduction(PIP)-NR_OFF	0~255	255	255	255	
54	Picture Limit Level	0~3	3	3	3	
55	OSD LEVEL(LRGB2_LEV)	0~15	12	12	12	
56	TTX LEVEL(LRGB2_LEV)	0~15	5	5	5	
57	Left Blanking (480p)	0~255	195	195	195	
58	Right Blanking (480p)	0~255	165	165	165	
59	Left Blanking (1080i)	0~255	167	167	167	
60	Right Blanking (1080i)	0~255	125	125	125	
61	System (480p)	0~3	1	1	1	
62	System (1080i)	0~3	1	1	1	
63	CrCb Gain (480p)	0~255	119	119	119	
64	CrCb Gain (1080i)	0~255	119	119	119	
65	LTI Mode (480p)	0~3	1	1	1	

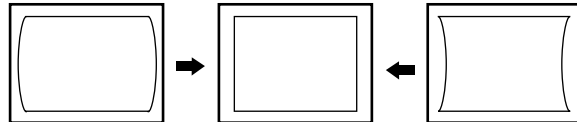
F-No	Factory Control Name	Range	29" AISA SDI CRT	32" Australia LG CRT	29" Australia SDI CRT	REMARK
66	LTI Mode (1080i)	0~3	1	1	1	
67	TTX V Position	0~255	38	38	38	
68	TTX H Position	0~255	186	188	186	
69	16PIP UPPER CORNER OFF SET	0~255	4	0	4	
70	16 PIP LOWER CORNER OFF SET	0~255	1	0	1	
71	4:3 Normal Parabola	0~255	0	0	0	

4-4 Screen Change(I²C Bus Geometric Adjustment)

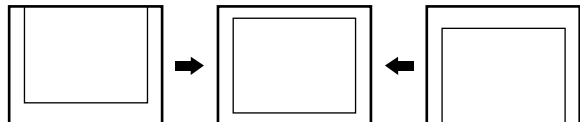
0 V - Amp



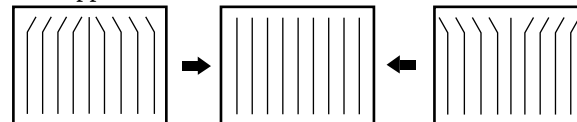
8 H-Parabola



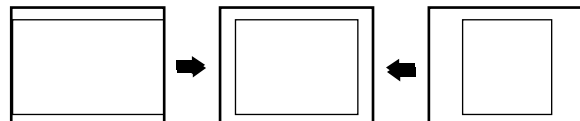
1 V-Shift



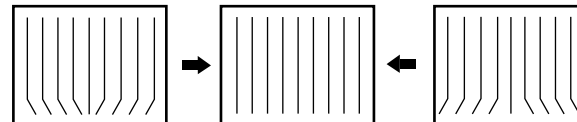
9 Upper Coner



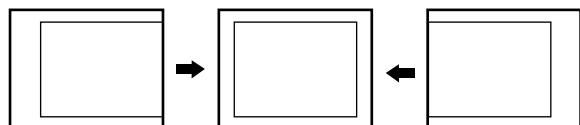
2 H-EW



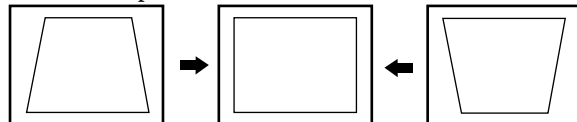
10 Low Coner



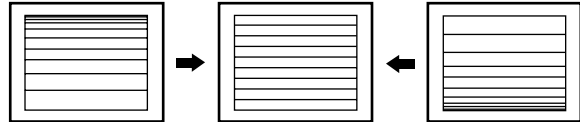
3 H-Shift



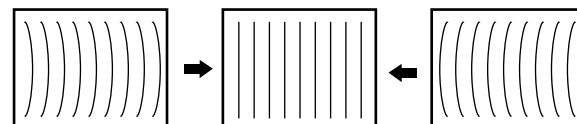
11 H- Trapezuim



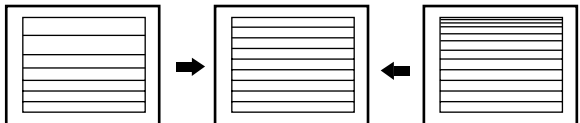
4 V-Linearity



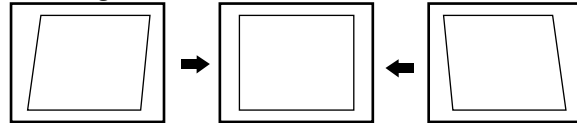
12 Bow



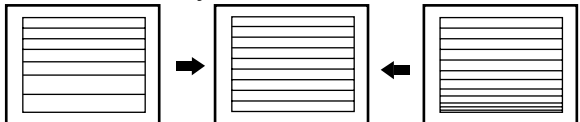
5 Upper Linearity



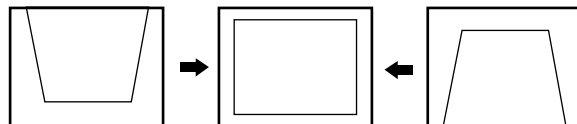
13 Angle



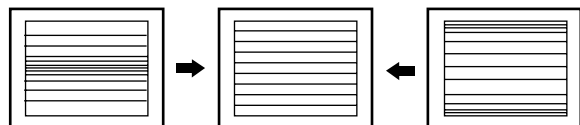
6 Low Linearity



14 V Position



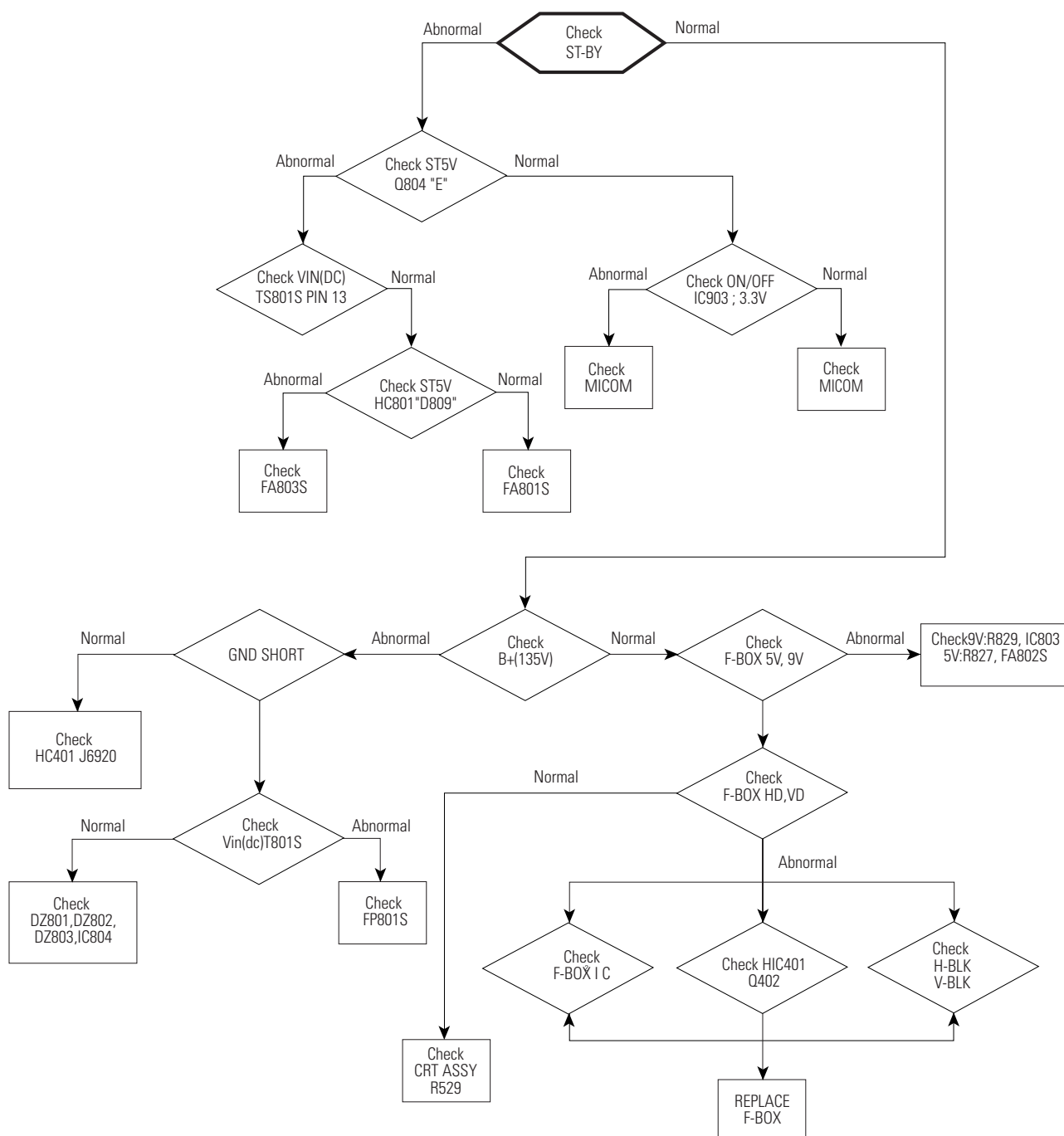
7 V SC



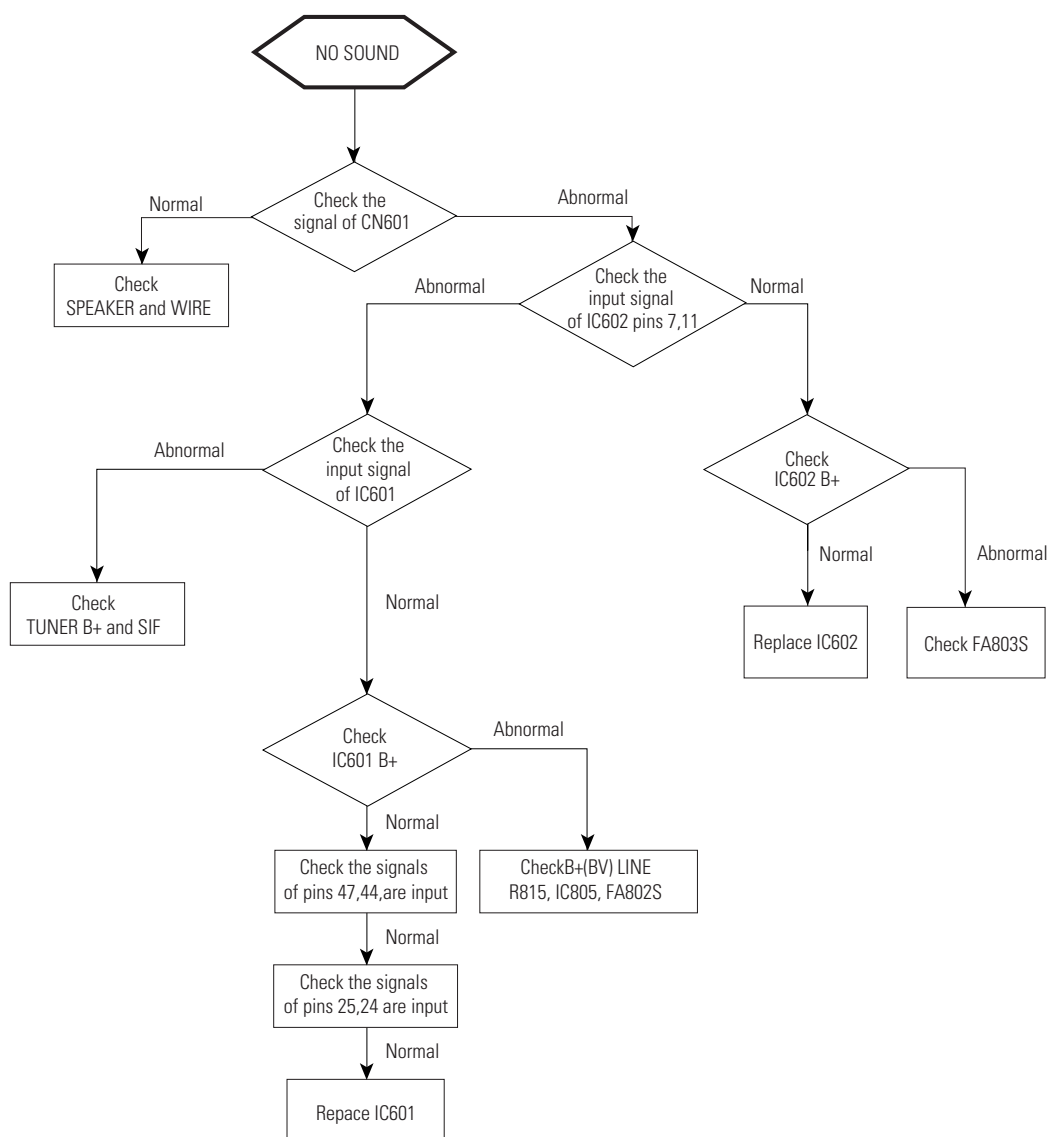
MEMO

5. Troubleshooting

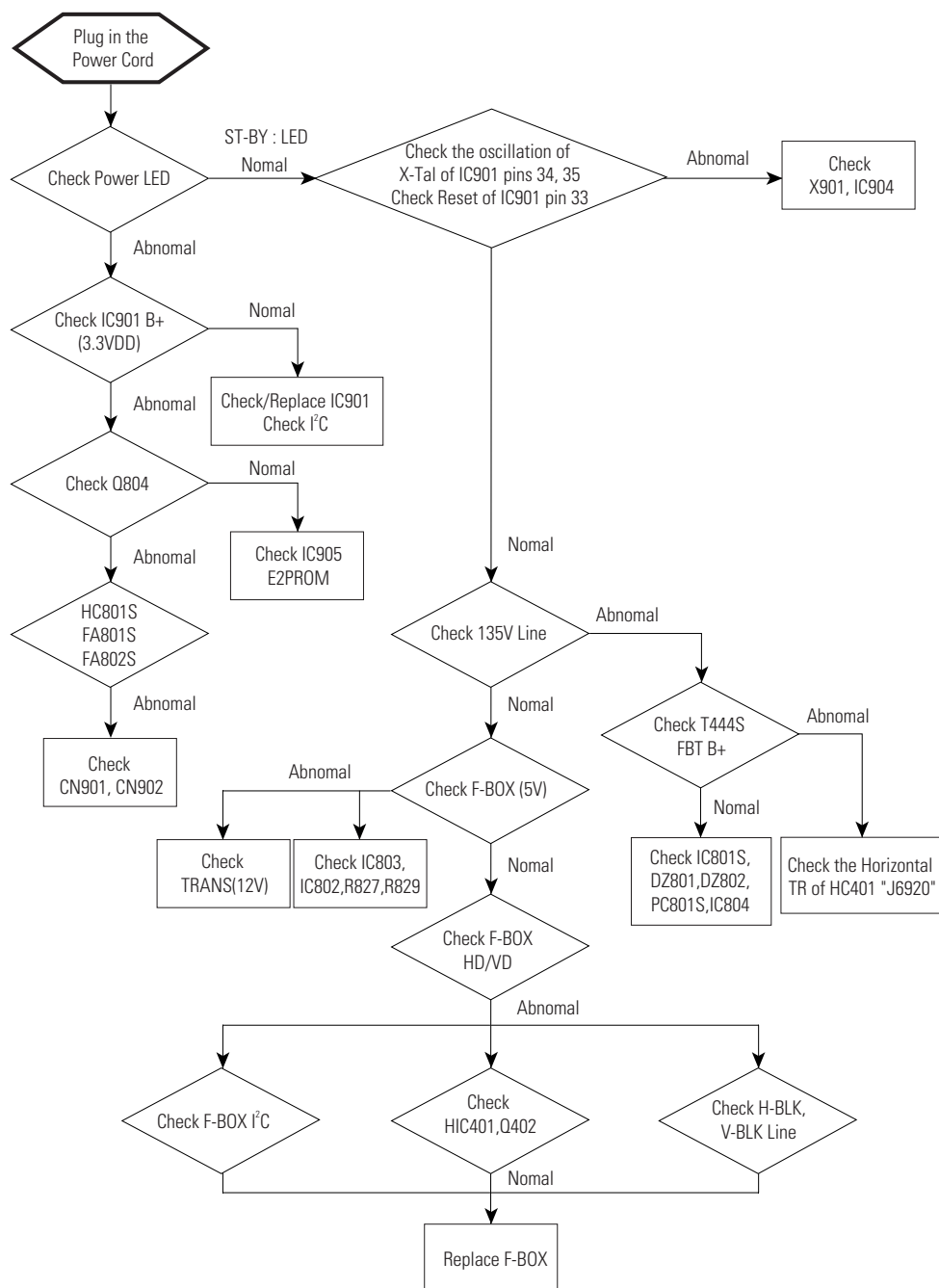
5-1 No Raster



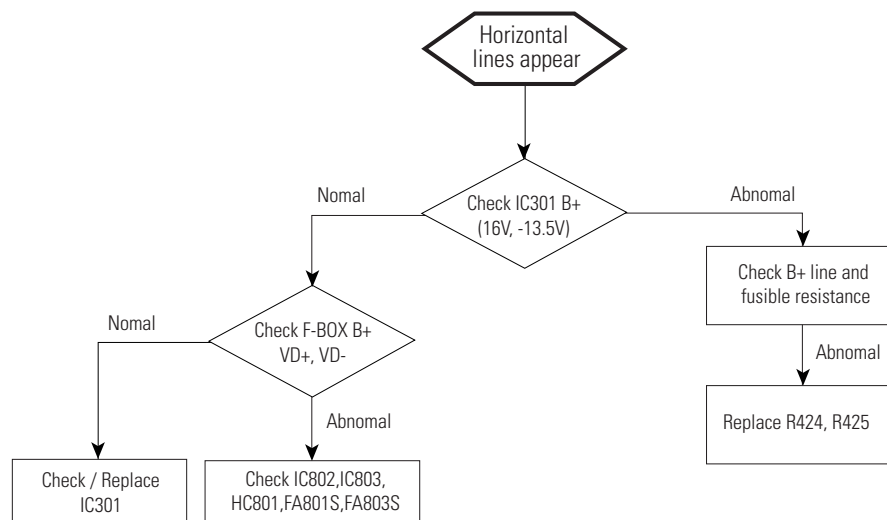
5-2 No Sound



5-3 No Power



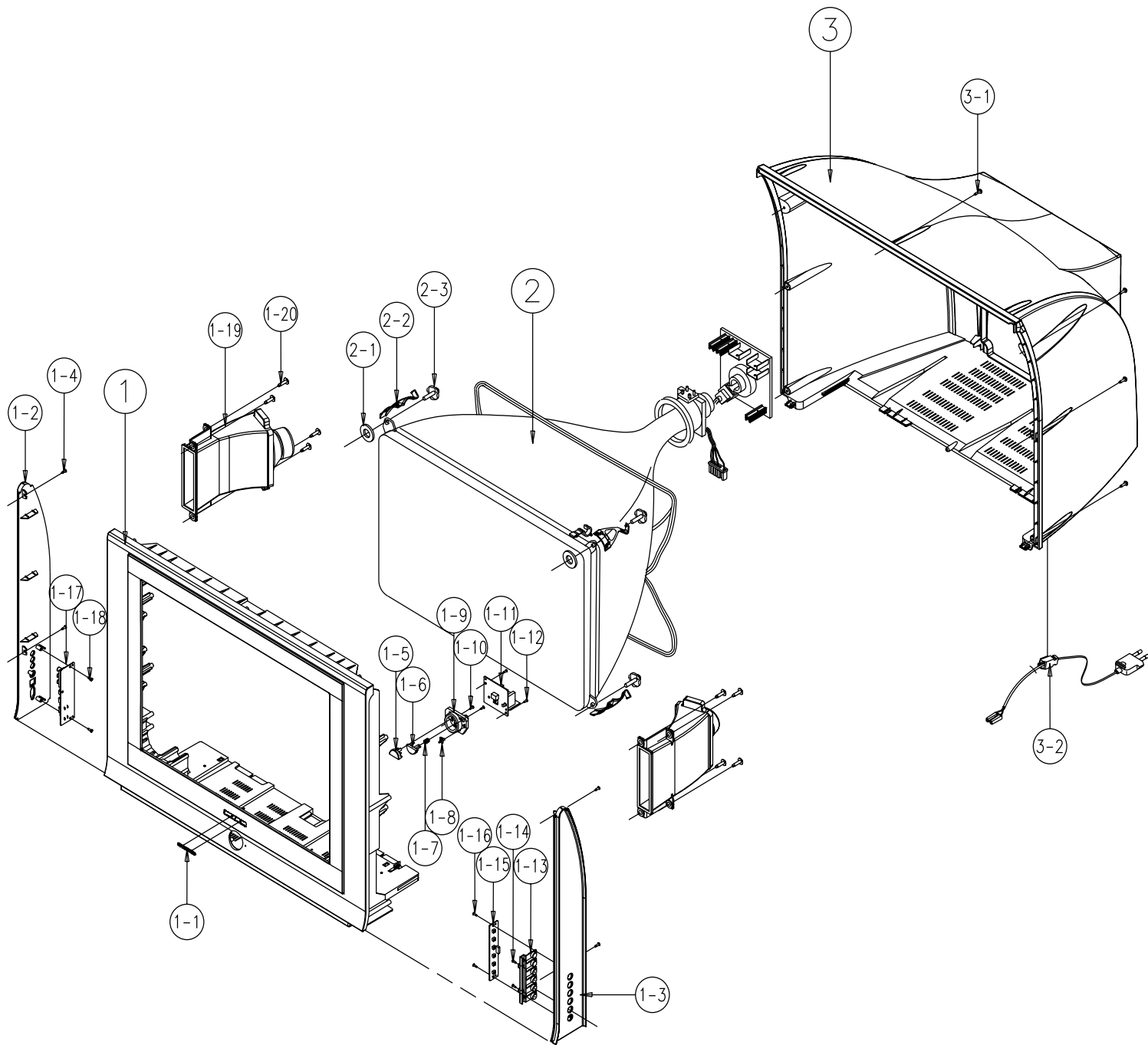
5-4 Horizontal Lines Appear



6. Exploded View & Parts List

6-1 CS29Z6HPGX/BWT

You can search for the updated part code through ITSELF web site.
URL : <http://itself.sec.samsung.co.kr>



No	Code No	Description;Specification	Q'ty	Remark	S.N.A
1	AA96-00932D	ASSY COVER P-FRONT;29Z6,CS29Z6HF,ABS HB0	1		
1*	AA64-02744D	CABINET-FRONT;CS29Z6HF,ABS,HB0690M,G4309	1		S.N.A
1-1	AA64-70117B	BADGE-BRAND;-AL,-,L65,R2000,SILVER,SS	1		S.N.A
1-2	AA63-00571A	COVER-A/V;29Z6,HIPS,HB,G4309,DGN-1189	1		S.N.A
1-3	AA63-00569B	COVER-CONTROL;29Z6,HIPS,HB,G4309,DGN-118	1		S.N.A
1-4	6003-001268	SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL)	2	CA+CF	S.N.A
1-5	6003-001268	SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL)	2	CC+CF	S.N.A
1-6	AA64-02752A	WINDOW-RMC;29Z6,PC,VO,VIOLET	1		S.N.A
1-7	AA64-02751B	KNOB-POWER;29Z6,PC,VO,VIOLET,MASTER	1		
1-8	AA61-60003J	SPRING ETC-CS;-SUS304,-,OD6,N7,OD6,-,	1	KNOPOW	S.N.A
1-9	AA64-02753A	INDICATOR LED;29Z6,ACRYL,HB,CLEAR	1		S.N.A
1-10	AA64-02750A	DECORATION-POWER;29Z6,ABS,HB,GRAY,AL	1		
1-11	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	2	DP+CF	S.N.A
1-12	AA94-11730A	ASSY PCB MISC-MASTER;Z6,Z7Z9,K55A,S57A,P	1		
1-13	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	2	HP+PCB	
1-14	AA64-02662A	KNOB-CONTROL;Z7,ABS,HB,G3676,S104M+W971	1		
1-15	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	2	KC+CC	S.N.A
1-16	AA41-00651A	PCB-CONTROL;CS29Z7HF,FR-1,1L,A,1.6T,330X	1	PCB	S.N.A
1-17	AA96-00938B	ASSY COVER P-COVER A/V;29Z6,CIS,HIPS HB,	1		
1-18	6003-001268	SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL)	3	AV+CV	S.N.A
1-19	AA91-00507A	ASSY HOLDER SPK;-,-,80HM/15W,-,ASSY HOLD	1		
1-20	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)	4	SPK+CF	S.N.A
2	AA91-02173Q	ASSY CPT;A68QCP891X004,29,+380MG,ITC,CT	1		S.N.A
2-1	AA63-60004K	SPACER-GUM,CRT;-NTR RUBBER,-,-,BLK,T2	4		S.N.A
2-2	AA65-00019A	CLAMPER CORE-D,COIL;25-34,NYLON 66,V2,N	4		S.N.A
2-3	AA60-10050V	SCREW-ASSY;-SWRCH18A,M6,L30,HH,+,WC,-,Z	4	CRT+CF	S.N.A
3	AA64-02745C	CABINET BACK;29Z6,ABS,VO,G4309,SVM2012	1		
3-1	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+,2S,	7	CB+CF	S.N.A
3-2	AA96-20130H	ASSY POWER CORD;-CP2/NO(4.0R),H/S 500MM	1		S.N.A

You can search for the updated part code through ITSELF web site.
URL : <http://itself.sec.samsung.co.kr>

7. Electrical Parts List

7-1 CS29Z6HPGX/BWT

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
ASSY CHASSIS					4	C533	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m	
1	AA91-04827A	ASSY CHASSIS;CS29Z6HPGX/BWT,K55A	S.N.A		4	C534	2401-000832	C-AL;220uF,20%,25V/GP,TP8x11.5,5	
2	C-BLOC	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	4	C535	2401-000913	C-AL;22uF,20%,16V/GP,TP5x11.5	
2	D-FOCU	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	4	CF01	2401-000360	C-AL;100uF,20%,50V/GP,TP8x11.5,5	
2	MP+HC	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	4	CF02	2201-000017	C-CERAMIC,DISC;1NF,10%,50V,Y5P,TP5X3.5M	
2	PCB	AA61-00706B	HOLDER-COVER;ALL MODEL,NYLON-66 T1.0 V2,	S.N.A	4	CF03	2201-000192	C-CERAMIC,DISC;0.01NF,0.25PF,500V,COG,TP	
2	TBA+HC	6006-001095	SCREW-ASSY TAPT;WP,BH,+,M4,L12,ZPC(YEL)	S.N.A	4	CF04	2201-000516	C-CERAMIC,DISC;4.7NF,+,100-0%,500V,Y5U,TP	
2	WP+HC	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	4	CF05	2301-000261	C-FILM,PEF;4.7nF,5%,100V,TP10.5x12.5x6	
2	AA94-08584P	ASSY PCB MISC-CRT;29Z6,K55A,100HZ			4	CF06	2201-000192	C-CERAMIC,DISC;0.01NF,0.25PF,500V,COG,TP	
3	C522	2201-002117	C-CERAMIC,DISC;4.7nF,20%,3kV,Y5U,TP16x6		4	CF07	2201-000604	C-CERAMIC,DISC;0.056NF,+,100-0%,500V,SL,T	
3	C523	2306-000272	C-FILM,MPPF;820nF,5%,400V,BK,29x25.5x18		4	CF71	2401-000832	C-AL;220uF,20%,25V/GP,TP8x11.5,5	
3	CNC01	3711-003974	CONNECTOR-HEADER;BOX,12P;1R,2.5mm,STRAIG		4	CF73	2401-000927	C-AL;22uF,20%,250V/GP,TP13x20,5	
3	CNC01A	AA39-00088A	LEAD CONNECTOR-ASSY;HERCULES,UL1007/1185		4	CF74	2401-000025	C-AL;100uF,20%,16V/GP,TP6.3x11.5	
3	CNC02	3711-003051	CONNECTOR-HEADER;BOX,8P;1R,2.5MM,STRAIGH		4	CF75	2401-000045	C-AL;10uF,20%,160V/GP,TP10x16,5	
3	CNC02A	AA39-00127A	LEAD CONNECTOR-ASSY;8P,400MM,35155-0800		4	D501	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
3	G1501A	AA39-00341A	LEAD CONNECTOR;K55A(WT-32Z4HD),UL1015#18		4	D502	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
3	G1503S	AA39-20010B	LEAD CONNECTOR-ASSY;1P,500,YFH800-01,S,		4	D509	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
3	IC501	AA96-50311L	ASSY H/S;-;AMPAAG2-30175D ,TDA6111Q,HE	S.N.A	4	D510	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
3	IC502	AA96-50311L	ASSY H/S;-;AMPAAG2-30175D ,TDA6111Q,HE	S.N.A	4	D511	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
3	IC503	AA96-50311L	ASSY H/S;-;AMPAAG2-30175D ,TDA6111Q,HE	S.N.A	4	D512	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
4		1201-001131	IC-VIDEO AMP;6111,SIP9P,-,SINGLE,-,PLAS		4	D513	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
4		6003-000334	SCREW-TAPTITE;RH,+,2S,M3,L6,ZPC(YEL),SWR		4	D514	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
4		AA62-30175D	HEAT SINK-PS;-;SECC,T1.0,-,33X15X30 FT-2	S.N.A	4	DF01	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
3	IC504	BH99-00038E	ASSY HEAT/SINK;TDA2030,AMP;HERCULES,BH62	S.N.A	4	DF02	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
4	CIS	0205-001027	OIL-SILICON;G746,-,-	S.N.A	4	DF05	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
4	CIS	1201-000010	IC-OP AMP;2030,PENTAWATT,5P,-,SINGLE,-,C		4	DF06	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
4	CIS	BH61-00004A	SPRING ETC-TR;CDA,CDB,SUS304,-,-,-,-,T	S.N.A	4	DF07	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
4	CIS	BH62-00041A	HEAT SINK-TR;PN17LT,A1050S,T1.0,50,23,-,	S.N.A	4	DF08	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
3	QF09	AA96-00243M	ASSY H/S;-;AMPAAG2-000450A,2SA1011,HERC	S.N.A	4	DZ501	0403-000708	DIODE-ZENER;MTZJ13B,13V,12.55-13.21V,500	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	4	DZ502	0403-000708	DIODE-ZENER;MTZJ13B,13V,12.55-13.21V,500	
4		0502-000131	TR-POWER;2SA1011-D,PNP,1.2W,TO-220,-,60		4	DZ504	0403-000698	DIODE-ZENER;TZP12A,12V,11.4-12.6V,1W,DO-	
4		6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR	S.N.A	4	DZ510	0403-000734	DIODE-ZENER;TZP15B,15V,14.7-16.5V,1W,DO-	
4		AA62-00045A	HEAT SINK-PS;-;T1.0,-,-,DREAM,-,-,-,-,	S.N.A	4	DZF01	0403-001039	DIODE-ZENER;MA2560,56V,52-60V,1W,DO-41,T	
3	QF10	AA96-00243L	ASSY H/S;-;CRTAA62-000450A,2SC2344,HERC	S.N.A	4	DZF02	0403-001039	DIODE-ZENER;MA2560,56V,52-60V,1W,DO-41,T	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	4	DZF03	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4		0502-000153	TR-POWER;2SC2344-D,NPN,1.2W,TO-220,-,60		4	EL100	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4		6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR	S.N.A	4	EL80	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4		AA62-00045A	HEAT SINK-PS;-;T1.0,-,-,DREAM,-,-,-,-,	S.N.A	4	EL81	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4		0502-000153	TR-POWER;2SC2344-D,NPN,1.2W,TO-220,-,60		4	EL82	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4		6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR	S.N.A	4	EL83	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4		AA62-00045A	HEAT SINK-PS;-;T1.0,-,-,DREAM,-,-,-,-,	S.N.A	4	EL84	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
3	SC01	3722-001503	JACK-PIN;1P,1PIN,RED,SCR-JACK		4	EL85	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
3	V999S	3704-001032	SOCKET-CRT;8P29P1,35.5PI,AU30U		4	EL86	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
3		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	S.N.A	4	EL87	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
3		AA97-12040A	ASSY AUTO-CRT;CS29Z6HPK55A	S.N.A	4	EL88	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C501	2201-000193	C-CERAMIC,DISC;0.01NF,0.25PF,50V,COG,TP,		4	EL89	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C504	2301-000016	C-FILM,PEF;22nF,5%,100V,TP7.2x4.5x9.0mm		4	EL92	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C505	2301-000016	C-FILM,PEF;22nF,5%,100V,TP7.2x4.5x9.0mm		4	EL94	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C506	2301-000016	C-FILM,PEF;22nF,5%,100V,TP7.2x4.5x9.0mm		4	EL95	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C507	2301-000016	C-FILM,PEF;22nF,5%,100V,TP7.2x4.5x9.0mm		4	EL96	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C508	2301-001211	C-FILM,PPF;22nF,5%,400V,TP20x7x14,7.5mm		4	EL97	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C509	2301-000016	C-FILM,PEF;22nF,5%,100V,TP7.2x4.5x9.0mm		4	EL98	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C510	2201-000291	C-CERAMIC,DISC;1NF,10%,500V,Y5P,TP7.5X3		4	EL99	6042-000001	EYELET;ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	S.N.A
4	C511	2301-001211	C-FILM,PPF;22nF,5%,400V,TP20x7x14,7.5mm		4	FN1	3711-002643	CONNECTOR-HEADER;BOX,4P;1R,2.5mm,STRAIGH	
4	C512	2301-001211	C-FILM,PPF;22nF,5%,400V,TP20x7x14,7.5mm		4	FV1	3711-002642	CONNECTOR-HEADER;BOX,3P;1R,2.5mm,STRAIGH	
4	C513	2201-000600	C-CERAMIC,DISC;0.56NF,10%,50V,Y5P,TP5X3		4	G1501	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	C514	2201-000599	C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP5,		4	G1502	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	C515	2201-000599	C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP5,		4	G1503	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	C520	2401-000703	C-AL;2200uF,20%,25V/GP,-,12.5x25mm,		4	G1504	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	C526	2301-001211	C-FILM,PPF;22nF,5%,400V,TP20x7x14,7.5mm		4	L502	2701-000178	INDUCTOR-AXIAL;33uH,10%,3x7mm	
4	C528	2401-000832	C-AL;220uF,20%,25V/GP,TP8x11.5,5		4	LF01	2901-000297	FILTER-EMI ON BOARD;-;3A,-,-,3.5x5,TP-	
4	C531	2401-002284	C-AL;10uF,20%,350V/GP,TP10x20mm,5m		4	LF02	2901-000297	FILTER-EMI ON BOARD;-;3A,-,-,3.5x5,TP-	
4	C532	2401-001563	C-AL;47uF,20%,400V/GP,TP16x25,7.5		4	LF03	2701-000112	INDUCTOR-AXIAL;100uH,10%,3x7mm	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
4	LF04	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-	S.N.A	2		AA96-00908E	ASSY COVER P-TERMINAL BOARD;2926,CIS,HIP	
4	LF06	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-		3		AA64-02823A	INLAY-T/BOARD;Z7,PS SHEET,T0.5,PAL	S.N.A
4	LF08	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-		3		AA65-00025A	TERMINAL-BOARD,ANT;HIPS V0,BLK	S.N.A
4	LF09	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-		2		AA94-11750A	ASSY PCB MISC-A/V SIDE;2926,K55A,PAL	
4	LF11	2901-000297	FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP-		3	AV+CV	6003-001268	SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL)	S.N.A
4	PCB	AA41-00578D	PCB-CRT;CT-29Z7HR,FR-1,1L,D,1.6T,330X245		3	CN701	AA39-00317B	LEAD CONNECTOR-ASSY;K55A/WT-32Z4HD,UL100	
4	Q501	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,T0-92,T		3	CN703	AA39-20069A	LEAD CONNECTOR-ASSY;5P,500,YBNH025-05.6	
4	Q502	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,T0-92,T		3	CN704	AA39-00070B	LEAD CONNECTOR-ASSY;4P,500MM,YBNH250-04	
4	Q503	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,T0-92,T		3	JA701	3722-001164	JACK-PIN;3P,3.4mm,SN,WH;YE-RE,#16-22	
4	Q504	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,T0-92,T		3	JK04	3722-000544	JACK-VHS;4P;11.5mm,AG,BLK,N	
4	QF02	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,T0-92,T		3	JKH701	3722-001061	JACK-PHONE;1P,3.6P,AG,BLK,N	
4	QF03	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,T0-92,T		3		AA97-12697A	ASSY AUTO-A/V SIDE;K55A,PAL,2926	S.N.A
4	QF04	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,T0-92,T		4	C701	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
4	QF05	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,T0-92,T		4	C702	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
4	R501	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	C707	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,T	
4	R502	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	C708	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,T	
4	R503	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M		4	DZ701	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
4	R504	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AA,TP,2.4X6.4		4	L701	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
4	R505	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AA,TP,2.4X6.4		4	L702	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
4	R506	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4		4	L705	2701-000168	INDUCTOR-AXIAL;3.3uH,5%,2.5x3.4mm	
4	R507	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	L706	2701-000168	INDUCTOR-AXIAL;3.3uH,5%,2.5x3.4mm	
4	R508	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM		4	L707	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	
4	R509	2008-001047	R-FUSIBLE(S);68ohm,5%,2W,AF,TP,3.9x10mm		4	L708	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	
4	R510	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4		4	PCB	AA41-00620B	PCB-A/V SIDE(Z7);CT-29Z7HR,FR-1,1L,B,1.6	S.N.A
4	R511	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4		4	R701	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4	
4	R512	2004-001369	R-METAL(S);1.2Kohm,1%,1/2W,AA,TP,2.4X6.4		4	R702	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4	
4	R513	2002-001017	R-COMPOSITION;1Kohm,10%,1/2W,AA,TP,3.7x9		3		AA96-00938B	ASSY COVER P-COVER A/V;2926,CIS,HIPS HB,	
4	R514	2002-001017	R-COMPOSITION;1Kohm,10%,1/2W,AA,TP,3.7x9		4		AA63-60001R	SPACER-FELT;FELT,-----,T0.35,-,200X1	S.N.A
4	R515	2002-001017	R-COMPOSITION;1Kohm,10%,1/2W,AA,TP,3.7x9		4		AA64-02667B	INLAY-AV,Z7,PS SHEET,T0.3,DGN-K189,K55A	S.N.A
4	R516	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,TP,2.4X6.4M		4		AA63-00571A	COVER-A/V;2926,HIPS,HB,G4309,DGN-1189	S.N.A
4	R518	2001-001095	R-CARBON(S);2.2MOHM,5%,1/2W,AA,TP,2.4X6.4		3		AA63-10002A	BAND-TIE,NYLON66 V2,1.00,NTR	S.N.A
4	R519	2001-000356	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM		2		AA94-08584Q	ASSY PCB MISC-CONTROL;2926,K55A,100HZ	
4	R520	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	CNY01	AA39-00100E	LEAD CONNECTOR-ASSY;4P,600MM,YBNH250-04	
4	R522	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	CPC+CC	6003-001268	SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL)	S.N.A
4	R523	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	SWY01	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	
4	R525	2002-001006	R-COMPOSITION;4.7KOHM,15%,1/2W,AA,TP,3.7		3	SWY02	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	
4	R527	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	SWY03	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	
4	R528	2003-000458	R-METAL OXIDE(S);100ohm,5%,2W,AF,TP,4x12		3	SWY04	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	
4	R530	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	SWY05	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	
4	R531	2001-000539	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	SWY06	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	
4	R540	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3		0202-000187	SOLDER-WIRE FLUX;-RS60S,D1.2.63Sn/37Pb	S.N.A
4	R541	2008-001053	R-FUSIBLE;22ohm,5%,1/2W,AF,TP,2.5x6.5mm		3		AA97-12449A	ASSY AUTO-CONTROL;2926,K55A,PAL	S.N.A
4	R554	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	DZY03	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4	R555	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	DZY04	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4	R556	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	LY01	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
4	R560	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP,2.4X6.4		4	PCB	AA41-00651A	PCB-CONTROL;CS29Z7H,FR-1,1L,A,1.6T,330X	S.N.A
4	R561	2001-001126	R-CARBON(S);300OHM,5%,1/2W,AA,TP,2.4X6.4		4	RY02	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
4	R562	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	RY03	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
4	R563	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	RY04	2001-000878	R-CARBON;6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
4	R564	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	RY05	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
4	R565	2001-001071	R-CARBON(S);12KOHM,5%,1/2W,AA,TP,2.4X6.4		4	RY06	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
4	R566	2001-001040	R-CARBON(S);0.68OHM,5%,1/2W,AA,TP,2.4X6.4		3		AA96-00935B	ASSY COVER P-COVER CONTROL;2926,CIS,HIPS	
4	RF13	2008-001053	R-FUSIBLE;22ohm,5%,1/2W,AF,TP,2.5x6.5mm		4	KC+CC	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	S.N.A
4	RF14	2003-002276	R-METAL OXIDE(S);2.2KOHM,5%,2W,AG,TP,12X		4		AA63-60001R	SPACER-FELT;FELT,-----,T0.35,-,200X1	S.N.A
4	RF15	2003-002276	R-METAL OXIDE(S);2.2KOHM,5%,2W,AG,TP,12X		4		AA64-02662A	KNOB-CONTROL;Z7,ABS,HB,G3676,S104M+W971	
4	RF16	2003-002276	R-METAL OXIDE(S);2.2KOHM,5%,2W,AG,TP,12X		4		AA63-00569B	COVER-CONTROL;2926,HIPS,HB,G4309,DGN-118	S.N.A
4	RF17	2001-000019	R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4M		2		AA96-20130H	ASSY POWER CORD;-,CP2/NQ(4.0R),H/S 500MM	
4	RF18	2001-001079	R-CARBON(S);15OHM,5%,1/2W,AA,TP,2.4X6.4M		3		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
4	RF19	2001-001079	R-CARBON(S);15OHM,5%,1/2W,AA,TP,2.4X6.4M		3		AA39-10003B	CBF POWER CORD;-KJP-140,KLCE-2F2.4m,H0	
4	RF20	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3		AA61-20284A	HOLDER;P-CORD,PP,-,---,BLK,VO,KE-002	S.N.A
4	RF21	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM		2		AA65-00011B	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	S.N.A
4	RF22	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM		2		AA61-01190A	HOLDER-CHASSIS;Z7,HIPS V0,G4309	S.N.A
4	RF23	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM		2		AA94-07792A	ASSY PCB MISC-DYNAMIC FOCUS;CT-29Z7HR,K5	
4	RF24	2003-001018	R-METAL OXIDE(S);220ohm,5%,2W,AF,TP,3.9x		3	LH01	AA26-90002C	TRANS-DUMMYY;-----,EER2	
4	RF25	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3	LH02	AA27-40003L	COIL HORIZ. WIDTH;-,1.0mH,DR14x20,2UEW0.	
4	RF26	2001-001179	R-CARBON(S);68KOHM,5%,1/2W,AA,TP,2.4X6.4		3	RH28	2008-001113	R-FUSIBLE(S);0.22ohm,10%,2W,AG,TP,3.9x12	
4	RF27	2001-001179	R-CARBON(S);68KOHM,5%,1/2W,AA,TP,2.4X6.4		3	WIRE3	AA39-20061C	LEAD CONNECTOR-ASSY;3P,200,YFH800-03,S,	
4	RF28	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM		3		0202-000187	SOLDER-WIRE FLUX;-RS60S,D1.2.63Sn/37Pb	S.N.A
4	RF29	2001-001071	R-CARBON(S);12KOHM,5%,1/2W,AA,TP,2.4X6.4		3		AA97-07229L	ASSY AUTO-DYNAMIC FOCUS;CT-29Z7HR,K55A	S.N.A
4	RF30	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	EY01	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	RF31	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM		4	EY02	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	RF32	2003-000746	R-METAL OXIDE(S);56ohm,5%,2W,AF,TP,4x12m		4	EY03	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	RF33	2001-001053	R-CARBON(S);1.5OHM,5%,1/2W,AA,TP,2.4X6.4		4	EY04	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	RF34	2001-001100	R-CARBON(S);2.7OHM,5%,1/2W,AA,TP,2.4X6.4		4	EY05	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	RF35	2003-000746	R-METAL OXIDE(S);56ohm,5%,2W,AF,TP,4x12m		4	EY06	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	RF36	2003-000652	R-METAL OXIDE(S);330ohm,5%,2W,AF,TP,4x12		4	EY07	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
4	EY08	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A	3		AA95-03091A	ASSY SUB-PCB,FEATURE BOX;K55A, ,PAL	
4	EY09	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A	4	BR01	AA61-10068A	BRACKET-PCB;M2160,SPT,TO3,-,-,-,-	S.N.A
4	GTH01	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A	4	BR02	AA61-10068A	BRACKET-PCB;M2160,SPT,TO3,-,-,-,-	S.N.A
4	GTH02	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A	4	CN01	3711-003495	CONNECTOR-HEADER;NOWALL,34P,2R,2.54MM,AN	
4	GTH03	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A	4	CN02	3711-003495	CONNECTOR-HEADER;NOWALL,34P,2R,2.54MM,AN	
4	PCB	AA41-00152C	PCB-DOUBLE FOCUS;CW29A6VN8X/XEFFR-1,1L,	S.N.A	4	CN03	3711-003601	CONNECTOR-HEADER;BOX,12P,1R,2.5mm,ANGLE,	
2		AA94-11187A	ASSY PCB MAIN;CS2926HPJX/BWT,K55A		4	DC41	2309-000138	C-FILM,PE-PPE,100uF,5%,50V,TP20x16x8.5,	
3	C-BLOC	AA26-00069A	TRANS FBT;FUJ-29C002C(S),DREAM3,4,-,-,-,		4	DC51	2301-000224	C-FILM,PEF,22nF,5%,50V,TP7.4x3.9x13mm,5	
3	C806	2306-000112	C-FILM,MPPF;100nF,20%,250V,BK,-,15mm		4	DX01	2802-001177	RESONATOR-CERAMIC;2.696MHZ,0.4%,BK,10X4,	
3	C820	2401-0003419	C-AL;2200uF,20%,50V,WT,TP,16X35.5mm		4	EC48	2401-002463	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	
3	CABLE	AA39-30007B	CBF IF,-,T150mm,1365#26		4	EC49	2401-002463	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	
3	CN301	AA60-40012D	PIN-GT,ASSY;T1.6,6-12.5,-,NYLON66	S.N.A	4	EX01	2801-004019	CRYSTAL-UNIT;20.25MHz,30ppm,28-AAM,13pF,	
3	CN502	3711-003051	CONNECTOR-HEADER;BOX,8P,1R,2.5MM,STRAIGH		4	IC06	1203-002000	IC-VOL. DETECTOR;7027,TO-92,3P,-,PLASTIC	
3	CN702	3711-003974	CONNECTOR-HEADER;BOX,12P,1R,2.5mm,STRAIG		4	IC06	AA97-12148A	ASSY SMD;K55A PAL	S.N.A
3	CN702A	AA39-00114C	LEAD CONNECTOR-ASSY;12P;500MM,35155-120		5	DC01	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
△	D801S	AA96-00276C	ASSY H/S,-,BRIDGE,AA62-00052A,GSIB660,K	S.N.A	5	DC02	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
4		AA62-00052A	HEAT SINK-PS,-,-,-,SILVER,HOLE 18.5mm, 2	S.N.A	5	DC03	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		AA60-30003A	WASHER;T1.5,SBHG-1	S.N.A	5	DC04	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	
4		6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR	S.N.A	5	DC05	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		0402-001399	DIODE-BRIDGE;GSIB660,600V6A,SIP-4,BK		5	DC06	2402-000173	C-AL,SMD;4.7uF,20%,35V,GP,TP,4.3x4.3x5	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	5	DC07	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
△	GT804S	AA39-20010C	LEAD CONNECTOR-ASSY;1P,600,YFH800-01,S,		5	DC08	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
4	HC401	BP96-00159A	ASSY HEAT SINK P;H/S,SCREW,FJL6920,FMP-3	S.N.A	5	DC09	2402-000170	C-AL,SMD;1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
4	HC401	AA60-30001A	WASHER-PLATE;M3,DI3.5,15X8.5,T1.0,SBHG	S.N.A	5	DC10	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4	CIS	0205-001027	OIL-SILICON;G746,-,-	S.N.A	5	DC11	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4	CIS	BP62-00015A	HEAT SINK-PS;WT-36Z4HR,A1050S,T2.0,86,80	S.N.A	5	DC12	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	
4	CIS	BH73-00028B	SILICON;RUBBER-HS;TV ALL,SILICON,26*30*T	S.N.A	5	DC13	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	
4	CIS	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	5	DC14	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4	CIS	0502-001230	TR-POWER;FJL6920YDTU,N,20000MMV,TO-264 F		5	DC15	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4	CIS	0402-001296	DIODE-RECTIFIER;FMP-3FU,1.5KV,5A,TO-3PF,		5	DC16	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
3	HC801	AA96-00475A	ASSY H/S,-,REGULATOR,AA62-00066B,FML-G12	S.N.A	5	DC17	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		AA62-00066B	HEAT SINK;D2,D3,AL,T1.0,89,70,-,AA62-00	S.N.A	5	DC18	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		6003-000334	SCREW-TAPTITE;RH,+2S,M3,L6,ZPC(YEL),SWR		5	DC19	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		1203-001006	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,		5	DC20	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
4		0402-001230	DIODE-RECTIFIER;FMG-G2CS,1000V,3A,TO-220		5	DC21	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		0402-000233	DIODE-RECTIFIER;FML-G12S,200V,5A,-,-		5	DC22	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	5	DC23	2402-000173	C-AL,SMD;4.7uF,20%,35V,GP,TP,4.3x4.3x5	
3	IC301	AA96-50381A	ASSY H/S,-,AA62-30180B,LA7845,-	S.N.A	5	DC24	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	5	DC25	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		1204-000517	IC-VERTICAL DEF;LA7845,SIP7P,-,PLASTIC		5	DC26	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	5	DC27	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		AA62-30180B	HEAT SINK-ES;-A6063 EXTR,2,WHT,70MM,-,	S.N.A	5	DC28	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
3	IC602	AA96-50369D	ASSY H/S,-,SOUND,AA62-30181F,TDA7269,HER	S.N.A	5	DC29	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	5	DC30	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	
4		1201-001385	IC-POWER AMP;7269A,ZIP11,19.6,DUAL,13,P		5	DC31	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
4		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	5	DC32	2203-000575	C-CERAMIC,CHIP;220nF,10%,25V,X7R,TP,2012	
4		AA62-30181F	HEAT SINK-ES;-AL6063 EXTR,2,WHT,50MM,-,	S.N.A	5	DC33	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
△	IC801S	AA96-50371H	ASSY H/S,-,SMPs,AA62-30181H,5Q1565RF,HER	S.N.A	5	DC34	2203-000896	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,1608	
4		AA61-11028A	BRACKET,-,SECC,T1.0,-,-,-,-	S.N.A	5	DC35	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
4		AA62-30181H	HEAT SINK-ES;-AL6063 EXTR,2,WHT,50MM,-,	S.N.A	5	DC36	2203-000257	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,1608	
4		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	5	DC37	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		1203-002512	IC-PWM CONTROLLER;KA501565RF-YDTU,TO-3PF		5	DC38	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	5	DC39	2402-001049	C-AL,CHIP;10uF,20%,16V,GP,TP,3.3x3.3x5.4	
3	IC805	AA96-00243K	ASSY H/S,-,REGULATOR,AA62-000450A,KA78R0	S.N.A	5	DC40	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
4		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	5	DC43	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	
4		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR	S.N.A	5	DC44	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
4		AA62-00045A	HEAT SINK-PS,-,T1.0,-,-,DREAM,-,-,-,-	S.N.A	5	DC45	2203-000575	C-CERAMIC,CHIP;220nF,10%,25V,X7R,TP,2012	
4		1203-001006	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,		5	DC49	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.4	
3	IC901	AA97-13892A	ASSY MICOM;K55A,SDA555X,SIM-832M4,02122		5	DC50	2402-001049	C-AL,CHIP;10uF,20%,16V,GP,TP,3.3x3.3x5.4	
4		AA09-00041A	IC MICOM;SDA555X-OTP3.3V,-,128K,SDIP,-	S.N.A	5	DC52	2402-001049	C-AL,CHIP;10uF,20%,16V,GP,TP,3.3x3.3x5.4	
3	JA701	3722-001884	JACK-SCART;42P,-,SNPB,BLK,-		5	DD01	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
3	JA702	3722-001767	JACK-PIN;2P(9P)-,NI,WHT,RED,-		5	DD02	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
△	LR402S	AA27-10004F	COIL CHOKE;-56uH,K,-,2.5A,BK,-,DR12x15,		5	DD03	0403-001117	DIODE-ZENER;RLZ12B,5%,500mW,LL-34,TP	
△	LR403S	AA27-00070A	COIL LINEARITY;-7uH,YL81 DR1518,11mm,17		5	DD04	0403-001117	DIODE-ZENER;RLZ12B,5%,500mW,LL-34,TP	
△	LR404S	AA27-40001S	COIL HORIZ. WIDTH;-110uH,SB-5S8202.6,PI		5	DD05	0403-001117	DIODE-ZENER;RLZ12B,5%,500mW,LL-34,TP	
3	Q402	0505-001116	FET-SILICON;BUZ73A,N,200V,22A,0.6ohm,40W		5	DD06	0403-001117	DIODE-ZENER;RLZ12B,5%,500mW,LL-34,TP	
3	Q804	BH99-00007S	ASSY HEAT/SINK;KSC2073,MICOM,HERCULES,BH	S.N.A	5	DD07	0403-001117	DIODE-ZENER;RLZ12B,5%,500mW,LL-34,TP	
4	CIS	0205-001027	OIL-SILICON;G746,-,-	S.N.A	5	DD08	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
4	CIS	0502-001007	TR-POWER;KSC2073-H2,NPN,25W,TO-220,ST,6		5	DD09	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
4	CIS	BH61-00004A	SPRING ETC-TR;CDA,CDB,SUS304,-,-,-,-,-,T	S.N.A	5	DD10	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
4	CIS	BH62-00007A	HEAT SINK-TR;-T1.0,L20*H30,CDA	S.N.A	5	DD11	0403-000746	DIODE-ZENER;RLZ3.9B,3.89-4.16V,500MW,LL-	
△	RL801S	3501-001053	RELAY-POWER;5Vdc,530mW,10A,1FormA,15mS,5		5	DD13	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
3	T401	AA26-50001S	TRANS-HORIZ.DRIVE;-,-,6.0mH,-,-,44uH,-		5	DD14	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
△	T444S	AA26-00170A	TRANS FBT;FUJ-29H002F;29F,1.95MH,FERRIT		5	DD15	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
△	T801S	AA26-00178A	TRANS SWITCHING;EER5345,K55A,PAL,CIS,160		5	DD16	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
△	TU02S	AA40-00084A	TUNER;TCPS3000PC16B(S),PAL,181CH,38.9MH		5	DD17	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
3	X601	2801-004020	CRYSTAL-UNIT;18.432MHz,30ppm,28-AAM,12pF		5	DD18	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark
5	DD19	0401-000133	DIODE-SWITCHING;RLS4148,100V,200mA,SOD-8	
5	DD20	0403-000620	DIODE-ZENER;RLZ5.6B,5.6,500mW,LL-34,TP	
5	DL01	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
5	DL02	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
5	DL03	2703-001070	INDUCTOR-SMD;100uH,10%,4.5x3.2x3.2mm	
5	DQ01	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
5	DQ02	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
5	DQ03	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
5	DQ04	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
5	DQ05	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
5	DQ06	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
5	DQ07	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
5	DQ08	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
5	DQ09	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23	
5	DQ10	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
5	DQ11	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
5	DR02	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR03	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR04	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR05	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR06	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR07	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
5	DR08	2007-000691	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
5	DR09	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR10	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR11	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR13	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
5	DR14	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
5	DR15	2007-000869	R-CHIP;4.7Kohm,1%,1/16W,DA,TP,1608	
5	DR16	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR17	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR18	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR19	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR20	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR21	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR23	2007-000052	R-CHIP;10Kohm,1%,1/16W,DA,TP,1608	
5	DR24	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
5	DR25	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
5	DR26	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR27	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608	
5	DR28	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608	
5	DR29	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
5	DR30	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR31	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
5	DR32	2007-000081	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1608	
5	DR33	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
5	DR34	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
5	DR35	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR36	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR37	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
5	DR38	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
5	DR39	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
5	DR40	2007-000072	R-CHIP;47ohm,5%,1/16W,DA,TP,1608	
5	DR41	2007-000072	R-CHIP;47ohm,5%,1/16W,DA,TP,1608	
5	DR42	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR43	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
5	DR44	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
5	DR45	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
5	DR46	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
5	DR47	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
5	DR49	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR50	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR51	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR52	2007-000211	R-CHIP;1.1Kohm,5%,1/16W,DA,TP,1608	
5	DR53	2007-000211	R-CHIP;1.1Kohm,5%,1/16W,DA,TP,1608	
5	DR54	2007-000211	R-CHIP;1.1Kohm,5%,1/16W,DA,TP,1608	
5	DR55	2007-000211	R-CHIP;1.1Kohm,5%,1/16W,DA,TP,1608	
5	DR56	2007-000211	R-CHIP;1.1Kohm,5%,1/16W,DA,TP,1608	
5	DR57	2007-000211	R-CHIP;1.1Kohm,5%,1/16W,DA,TP,1608	
5	DR58	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR59	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR60	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR61	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
5	DR62	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
5	DR63	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
5	DR64	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	

Level	Loc. No.	Code No.	Description ; Specification	Remark
5	DR65	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	DR66	2007-000088	R-CHIP;7.5Kohm,5%,1/16W,DA,TP,1608	
5	DR68	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
5	DR69	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
5	DR70	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
5	DR80	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
5	DR81	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
5	DR82	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608	
5	DR86	2007-000080	R-CHIP;2Kohm,5%,1/16W,DA,TP,1608	
5	DR87	2007-000080	R-CHIP;2Kohm,5%,1/16W,DA,TP,1608	
5	DR88	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
5	EC01	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC02	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC03	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC04	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC07	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
5	EC08	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
5	EC09	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
5	EC10	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
5	EC11	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC12	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC13	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
5	EC14	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
5	EC15	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
5	EC16	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC17	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC18	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC19	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC20	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC21	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC22	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC23	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
5	EC24	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC28	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
5	EC29	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EC30	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EC31	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EC32	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC33	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC34	2203-000626	C-CERAMIC,CHIP;0.022NF,5%,50V,C0G,TP,160	
5	EC35	2203-000626	C-CERAMIC,CHIP;0.022NF,5%,50V,C0G,TP,160	
5	EC36	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC37	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC38	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC39	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC40	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC41	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC42	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.4	
5	EC43	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC44	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.4	
5	EC45	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC46	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC47	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.4	
5	EC50	2402-001049	C-AL,CHIP;10uF,20%,16V,GP,TP,3.3x3.3x5.4	
5	EC51	2402-001049	C-AL,CHIP;10uF,20%,16V,GP,TP,3.3x3.3x5.4	
5	EC52	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC53	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC54	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC55	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC56	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC57	2402-001049	C-AL,CHIP;10uF,20%,16V,GP,TP,3.3x3.3x5.4	
5	EC58	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
5	EC59	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.4	
5	EC60	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
5	EC62	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EC63	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EC64	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EC65	2203-000681	C-CERAMIC,CHIP;0.027NF,5%,50V,C0G,TP,160	
5	EL04	3301-001082	CORE-FERRITE BEAD;AB,600HM,3.2X2.5X1.3MM	
5	EL05	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
5	EL06	3301-001324	CORE-FERRITE BEAD;AB,150HM,2X1.25X0.9MM,	
5	EL07	3301-001324	CORE-FERRITE BEAD;AB,150HM,2X1.25X0.9MM,	
5	EL08	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
5	EL09	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
5	EL13	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
5	EQ04	0505-000110	FET-SILICON;2N7002,N,60V,115MA,7.5OHM,0.	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark	
5	EQ05	0505-000110	FET-SILICON;2N7002,N,60V,115MA,7.5OHM,0.		4	C803	2401-002227	C-AL;330uF,20%,450V,GPBK,35x45,10		
5	EQ06	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-		4	C815	2401-003024	C-AL;220uF,20%,200V,WT,TP22x35,10		
5	ER01	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		4	CN902	3711-003043	CONNECTOR-HEADER;BOX,4P,1R,2.5MM,STRAIGH		
5	ER02	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	CR405S	2301-001343	C-FILM,MPPF;3.9nF,5%,2Kv,TP29x9.5x16mm,	
5	ER04	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		△	4	CR406S	2301-001343	C-FILM,MPPF;3.9nF,5%,2Kv,TP29x9.5x16mm,	
5	ER06	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608		△	4	CR407S	2301-001398	C-FILM,MPPF;3.3nF,5%,2Kv,TP29x8.5x1.5mm	
5	ER07	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608		△	4	CX801S	2306-000318	C-FILM,MPPF;220nF,20%,250V,TP,-22.5mm	
5	ER09	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		△	4	CX802S	2306-000318	C-FILM,MPPF;220nF,20%,250V,TP,-22.5mm	
5	ER13	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	CY802S	2201-000446	C-CERAMIC,DISC;3.3NF,20%,400V,Y5U,TP,15X	
5	ER16	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	FP801S	3601-000297	FUSE-CARTRIDGE;250V,5A,TIME-LAG,GLASS,5.	
5	ER19	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	IC401	1202-000103	IC-VOLTAGE COMP;393,DIP8P;300mV,DUAL	
5	ER20	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		4	IC601	1204-001971	IC-SOUND PROCESSOR;MSP3411G-P0-B11,DIP5		
5	ER21	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		4	IC803	1203-001225	IC-POS.FIXED REG.;78R09,TO-220,4P,-,PLA		
5	ER22	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		4	IC902	1103-001177	IC-EEPROM;24WC16,2048x8Bit,DIP8P,-,2.		
5	ER24	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		4	L808	AA27-00098A	COIL-CHOKE,-,24uH,10%,0.13.0A,DR10X		
5	ER25	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	LR405S	AA27-00057A	COIL-HORIZ. WIDTH,-,10mH,YL-9N15x27.5 C	
5	ER26	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	LX801S	AA29-30002N	FILTER LINE NOISE,-,16MH,1.5A,AC100-260V	
5	ER28	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		△	4	LX802S	AA29-30002N	FILTER LINE NOISE,-,16MH,1.5A,AC100-260V	
5	ER29	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		△	4	NT802S	1404-001045	THERMISTOR-NTC;4.7ohm,15%,2900K,35.0mV,T	
5	ER30	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		△	4	PC801S	0604-001038	PHOTO-COUPLER;TR,130-260V,200mW,DIP-4,ST	
5	ER31	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		△	4	PT801S	1404-001026	THERMISTOR-PTC;7ohm,20%,290V,25A,-,ST	
5	ER32	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216		△	4	TU01S	AA40-00083A	TUNER;TCL53101PD16A(S),PAL B/G,D/K,I,M,1	
5	ER33	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216		4		AA97-12467A	ASSY AUTO-MAIN;CS29Z6,K55A	S.N.A	
5	ER34	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216		5	C101	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	ER35	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216		5	C102	2401-000025	C-AL;100uF,20%,16V,GP,TP6.3x11.5		
5	ER36	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216		5	C103	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	IC01	1204-001938	IC-DECODER;VSP9407B-B11,MQFP80P;14X14MM		5	C104	2401-003578	C-AL;1000uF,20%,10V,GP,TP8x20mm,5		
5	IC04	1204-001989	IC-VIDEO PROCESS;CXA2165Q,QFP64P;20X14MM		5	C105	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	IC05	1203-002186	IC-POS.FIXED REG.;18,DPAK,3P;240MIL,PLA		5	C106	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11.5		
5	IC10	1001-001177	IC-VIDEO SWITCH;TEA6425D,VIDEO SWITCH,S		5	C107	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	IC11	0801-000662	IC-CMOS LOGIC;74HC123,MULTIVIBRATOR,SOP,1		5	C108	2401-003578	C-AL;1000uF,20%,10V,GP,TP8x20mm,5		
5	PCB	AA41-00644B	PCB-PAL FERTURE BOX;CS29Z6,FR-4,4L,B,1.6	S.N.A	5	C109	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP		
5	SC29	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C110	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP		
5	SC31	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C111	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11.5		
5	SC33	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C112	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	SC43	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP6.6x6.6x5.4		5	C113	2202-000216	C-CERAMIC,MLC-AXIAL;0.027NF,5%,50V,SL,TP		
5	SC44	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		5	C116	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V		
5	SC47	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608		5	C201	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	SC48	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608		5	C202	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11.5		
5	SC49	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		5	C203	2202-000106	C-CERAMIC,MLC-AXIAL;1.5nF,20%,16V,Y5P,TP		
5	SL02	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		5	C204	2202-000106	C-CERAMIC,MLC-AXIAL;1.5nF,20%,16V,Y5P,TP		
5	SR09	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C206	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	SR10	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C207	2401-000050	C-AL;10uF,20%,16V,GP,TP5x11.2,5		
5	SR11	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C239	2401-000050	C-AL;10uF,20%,16V,GP,TP5x11.2,5		
5	SR30	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C240	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		
5	SR31	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C302	2401-000365	C-AL;100uF,20%,50V,WT,TP10x12.5mm,		
5	SR32	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C303	2201-000132	C-CERAMIC,DISC;0.1NF,10%,500V,Y5P,TP6.5		
5	SR33	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C304	2305-000285	C-FILM,MPEF;220NF,5%,100V,TP,10.5X5.5X15		
5	SR34	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		5	C305	2305-000149	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5		
5	SR35	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		5	C306	2301-000160	C-FILM,PEF;12nF,5%,50V,TP,11.0x6.0x9.0mm		
5	SR36	2007-000259	R-CHIP;1.6Kohm,5%,1/16W,DA,TP,1608		5	C307	2401-000365	C-AL;100uF,20%,50V,WT,TP10x12.5mm,		
5	SR37	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608		5	C308	2305-000411	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m		
5	TC01	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012		5	C401	2201-000556	C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP5.		
5	TC02	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012		5	C402	2401-001397	C-AL;470uF,20%,25V,GP,TP,10x16.5		
5	TC03	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012		5	C403	2201-000556	C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP5.		
5	TC04	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012		5	C404	2401-002288	C-AL;470uF,20%,25V,WT,TP,10x20.5		
5	TC05	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012		5	C408	2301-001143	C-FILM,PPF;56nF,5%,400V,TP,20x10x17.7,5		
5	TC06	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012		5	C409	2301-001385	C-FILM,PPF;30nF,5%,630V,TP,20x15.5x10.5,		
5	TC07	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP6.6x6.6x5.4		5	C411	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,		
5	TC08	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		5	C412	2301-000254	C-FILM,PEF;39nF,5%,50V,TP,7.5x3.5x6.5mm,		
5	TD01	0403-001117	DIODE-ZENER;RLZ12B,5%,500mW,LL-34,TP		5	C413	2401-000493	C-AL;10uF,20%,50V,LT,TP5x11mm,5mm		
5	TL01	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		5	C414	2401-002597	C-AL;220uF,20%,35V,GP,TP,10x12.5,5		
5	TQ01	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-		5	C415	2301-000203	C-FILM,PEF;2.7nF,5%,100V,TP,7x3.0x6.5mm,		
5	TQ02	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-		5	C416	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m		
5	TR01	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C417	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m		
5	TR02	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		5	C418	2401-002597	C-AL;220uF,20%,35V,GP,TP,10x12.5,5		
5	TR03	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C420	2301-000213	C-FILM,PEF;220nF,5%,250V,TP,21.5x11.7,5		
5	TR04	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		5	C421	2201-000556	C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP5.		
5	TR05	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C422	2401-001527	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m		
5	TR07	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		5	C424	2201-000132	C-CERAMIC,DISC;0.1NF,10%,500V,Y5P,TP6.5		
5	TR08	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C425	2301-001259	C-FILM,MPPF;100nF,5%,400V,TP,19x8x16,7,5		
5	TR09	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		5	C432	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm		
5	TR10	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		5	C601	2201-000558	C-CERAMIC,DISC;0.47NF,10%,50V,Y5P,TP;5X3		
5	TR11	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		5	C602	2401-001026	C-AL;3.3UF,20%,50V,GP,TP5x11.5		
3	AA97-12466A		ASSY ROBOT-MAIN;CS29Z6,K55A	S.N.A	5	C603	2401-000050	C-AL;10uF,20%,16V,GP,TP5x11.2,5		
4	C423	2306-000272	C-FILM,MPPF;820nF,5%,400V,BK,29x25.5x18.		5	C604	2401-000603	C-AL;1uF,20%,50V,GP,TP5x11.5		
4	C426	2306-000195	C-FILM,MPPF;360nF,5%,400V,TP,26x19x11.5.		5	C605	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m		

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
5	C606	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3		5	C830	2201-000984	C-CERAMIC,DISC;0.68NF,10%,2KV,Y5P,TP9X5	
5	C607	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3		5	C831	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C608	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3		5	C832	2401-000493	C-AL;10uF,20%,50V/LZ,TP5x11mm,5mm	
5	C610	2301-000192	C-FILM,PEF;1nF5%,50V,TP5.3x10mm,5mm		5	C833	2401-002619	C-AL;47uF,20%,25V,GPTP5x11.5	
5	C611	2301-000192	C-FILM,PEF;1nF5%,50V,TP5.3x10mm,5mm		5	C834	2401-003034	C-AL;220uF,20%,16V,WT,TP8x11.5,5	
5	C612	2401-000603	C-AL;1uF,20%,50V,GPTP5x11.5		5	C835	2401-000722	C-AL;220uF,20%,25V,WT,TP16x25.7,5	
5	C613	2401-000611	C-AL;1uF,20%,50V,WT,TP5x11.5		5	C836	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C614	2301-000192	C-FILM,PEF;1nF5%,50V,TP5.3x10mm,5mm		5	C837	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C615	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3		5	C838	2401-001513	C-AL;47uF,20%,16V,WT,TP5x11.5	
5	C619	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C840	2401-001513	C-AL;47uF,20%,16V,WT,TP5x11.5	
5	C620	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C841	2401-000611	C-AL;1uF,20%,50V,WT,TP5x11.5	
5	C621	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C843	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C622	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C844	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C623	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C901	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
5	C624	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C902	2301-000192	C-FILM,PEF;1nF5%,50V,TP5.3x10mm,5mm	
5	C625	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C903	2202-000719	C-CERAMIC,MLC-AXIAL;6.8nF,20%,16V,Y5R,TP	
5	C626	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C904	2401-000480	C-AL;10uF,20%,50V,GPTP5x11.5	
5	C627	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C905	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3	
5	C628	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C906	2202-000791	C-CERAMIC,MLC-AXIAL;150pF,10%,50V,Y5P,TP	
5	C629	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C907	2305-000411	C-FILM,MPEF;470nF,5%,50V,TP7.3x4.8x5.5mm	
5	C630	2401-000050	C-AL;10uF,20%,16V,GPTP5x11.2,5		5	C909	2301-000383	C-FILM,PEF;10nF5%,50V,TP6x7x3.2mm,5mm	
5	C631	2401-000050	C-AL;10uF,20%,16V,GPTP5x11.2,5		5	C910	2201-000980	C-CERAMIC,DISC;0.03NF,5%,50V,C0G,TP5X3M	
5	C632	2201-000370	C-CERAMIC,DISC;0.22NF,10%,50V,Y5P,TP,4X3		5	C911	2201-000980	C-CERAMIC,DISC;0.03NF,5%,50V,C0G,TP5X3M	
5	C633	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C912	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5	
5	C634	2401-000302	C-AL;100uF,20%,25V,GPTP6.3x11.5		5	C913	2401-000025	C-AL;100uF,20%,16V,GPTP6.3x11.5	
5	C635	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		5	C914	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C636	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C915	2401-000025	C-AL;100uF,20%,16V,GPTP6.3x11.5	
5	C637	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C916	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C638	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C917	2401-000025	C-AL;100uF,20%,16V,GPTP6.3x11.5	
5	C639	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C918	2401-000493	C-AL;10uF,20%,50V/LZ,TP5x11mm,5mm	
5	C640	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C919	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
5	C641	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C920	2401-000050	C-AL;10uF,20%,16V,GPTP5x11.2,5	
5	C642	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,TP		5	C921	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
5	C643	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		5	C922	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C644	2401-000192	C-AL;1000uF,20%,50V,GPTP16x25.7,5		5	C923	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C645	2401-000050	C-AL;10uF,20%,16V,GPTP5x11.2,5		5	C924	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP	
5	C646	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		5	C925	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm	
5	C647	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP1		5	C927	2202-000127	C-CERAMIC,MLC-AXIAL;10nF,80-20%,25V,Y5V	
5	C648	2401-000192	C-AL;1000uF,20%,50V,GPTP16x25.7,5		5	CN302	3711-002642	CONNECTOR-HEADER;BOX,3P,1R,2.5mm,STRAIGH	
5	C649	2301-000108	C-FILM,PEF;1.5nF,5%,50V,TP6.5x3.0x5.5mm		5	CN601	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGH	
5	C650	2401-001176	C-AL;33uF,20%,25V,GPTP5x11.5		5	CN901	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGH	
5	C651	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		5	CW901	2503-000156	C-NETWORK;100pF,4,20%,50V	
5	C652	2401-000050	C-AL;10uF,20%,16V,GPTP5x11.2,5		5	D201	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C653	2401-002216	C-AL;2200uF,20%,35V,GPTP16x25.7,5		5	D202	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C654	2201-000611	C-CERAMIC,DISC;0.056NF,5%,50V,C0G,TP7X3		5	D207	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C655	2401-000603	C-AL;1uF,20%,50V,GPTP5x11.5		5	D301	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
5	C656	2201-000304	C-CERAMIC,DISC;0.001NF,0.25PF,50V,C0G,TP		△ 5	D401	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP	
5	C657	2201-000304	C-CERAMIC,DISC;0.001NF,0.25PF,50V,C0G,TP		△ 5	D402	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,T	
5	C658	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		△ 5	D403	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
5	C659	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		△ 5	D404	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,T	
5	C660	2401-002075	C-AL;4.7uF,20%,50V,GPTP5x11.5		△ 5	D405	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C701	2202-000243	C-CERAMIC,MLC-AXIAL;33pF,5%,50V,SL,TP3		△ 5	D406	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
5	C801	2401-000287	C-AL;100uF,20%,16V,WT,TP6.3x11.5		△ 5	D408	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,T	
5	C802	2301-000204	C-FILM,PEF;2.7nF,5%,50V,TP7.4x3.9x13mm,		△ 5	D409	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L	
5	C804	2201-000332	C-CERAMIC,DISC;2.2NF,20%,250V,Y5U,TP9X4		△ 5	D410	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C805	2201-000332	C-CERAMIC,DISC;2.2NF,20%,250V,Y5U,TP9X4		△ 5	D411	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,T	
5	C807	2303-000163	C-FILM,PPF;2.2nF,5%,800V,TP15x13x8.5,7		5	D603	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C808	2401-003046	C-AL;47uF,20%,50V,WT,TP6.3x11.2,5		5	D604	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C809	2301-000224	C-FILM,PEF;22nF,5%,50V,TP7.4x3.9x13mm,5		5	D607	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
5	C810	2401-000832	C-AL;220uF,20%,25V,GPTP8x11.5,5		△ 5	D801	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP	
5	C811	2401-002463	C-AL;470uF,20%,16V,GPTP8x11.5,5		△ 5	D802	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP	
5	C812	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		△ 5	D803	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
5	C813	2303-000163	C-FILM,PPF;2.2nF,5%,800V,TP15x13x8.5,7		△ 5	D804	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
5	C814	2201-002028	C-CERAMIC,DISC;0.47NF,10%,2KV,Y5P,TP7.5		△ 5	D805	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C816	2401-000262	C-AL;100uF,20%,160V,HR,TP16x25.7,5		△ 5	D808	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
5	C817	2201-000599	C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP5		△ 5	D812	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
5	C818	2401-000722	C-AL;220uF,20%,25V,WT,TP16x25.7,5		△ 5	D816	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
5	C819	2201-000599	C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP5		5	D901	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100mA,DO-34,TP	
5	C821	2301-000224	C-FILM,PEF;22nF,5%,50V,TP7.4x3.9x13mm,5		5	D902	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100mA,DO-34,TP	
5	C822	2201-000599	C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP5		5	D903	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100mA,DO-34,TP	
5	C823	2401-002144	C-AL;47uF,20%,16V,GPTP5x11.5		5	D904	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100mA,DO-34,TP	
5	C824	2401-001513	C-AL;47uF,20%,16V,WT,TP5x11.5		5	D907	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
5	C825	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0mm		5	DZ302	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,D	
5	C826	2401-003034	C-AL;220uF,20%,16V,WT,TP8x11.5,5		5	DZ303	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,D	
5	C827	2401-002619	C-AL;47uF,20%,25V,GPTP5x11.5		5	DZ304	0403-001221	DIODE-ZENER;UZ39BSB,35.36-37.19V,500mW,D	
5	C828	2201-000374	C-CERAMIC,DISC;0.22NF,5%,50V,C0G,TP10.5		5	DZ305	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,D	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
5	DZ306	0403-000700	DIODE-ZENER;TZP33A,33V,1-35V,1W,DO-41,T		5	EY437	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ307	0403-001118	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500m		5	EY439	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ401	0403-001325	DIODE-ZENER;MTZJ15C,14.35-15.09V,500mW,D		5	EY441	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ402	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,		5	EY446	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ404	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY447	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ601	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY603	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ602	0403-001322	DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500mW,DO		5	EY604	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ603	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY701	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ604	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY702	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ605	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY703	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ606	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY704	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ607	0403-001328	DIODE-ZENER;MTZJ22A,20.15-21.20V,500mW,D		5	EY705	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ608	0403-001328	DIODE-ZENER;MTZJ22A,20.15-21.20V,500mW,D		5	EY706	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ801	0403-001322	DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500mW,DO		5	EY801	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ802	0403-000716	DIODE-ZENER;MTZJ4.7B,4.7V,4.55-4.8V,500m		5	EY802	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ803	0403-001327	DIODE-ZENER;MTZJ18A,16.22-17.06V,500mW,D		5	EY803	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ804	0403-000700	DIODE-ZENER;TZP33A,33V,1-35V,1W,DO-41,T		5	EY804	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ806	0403-001317	DIODE-ZENER;MTZJ3.0B,3.01-3.22V,500mW,DO		5	EY805	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ807	0403-001330	DIODE-ZENER;MTZJ30A,26.99-28.39V,500mW,D		5	EY806	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ808	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY809	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ902	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY810	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ903	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY811	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ906	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY812	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ907	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY813	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ908	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY814	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ909	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY815	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ910	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY816	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ911	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY817	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	DZ912	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500		5	EY820	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL201	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY824	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL202	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY825	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL203	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY828	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL204	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY829	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL401	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY830	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL402	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY831	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL403	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY832	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL407	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY833	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL408	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY835	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL801	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY836	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL802	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY837	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL805	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY838	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL806	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY839	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL807	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY840	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EL808	6042-000001	EYELET;ID2.2,0D2.7,L3.1,SN,BSS3-E/EH	S.N.A	5	EY841	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY302	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY842	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY303	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY844	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY403	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY845	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY404	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY846	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY405	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY848	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY406	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY850	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY407	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY851	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY408	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY853	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY409	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY854	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY410	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY855	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY411	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY856	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY412	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY857	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY413	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY858	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY414	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY859	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY415	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY860	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY417	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY861	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY418	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY862	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY419	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY864	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY420	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY865	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY421	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY871	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY422	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	EY872	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A
5	EY423	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	F801A	3602-000114	FUSE-HOLDER;-,-30mohm	
5	EY424	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	F801B	3602-000114	FUSE-HOLDER;-,-30mohm	
5	EY425	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	⚠	FA801S	3601-000120	FUSE-AXIAL LEAD;125V,2.5A,FAST-ACTING,GL	
5	EY426	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	⚠	FA802S	3601-001086	FUSE-AXIAL LEAD;125V,5A,FAST-ACTING,GLAS	
5	EY429	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	⚠	FA803S	3601-001228	FUSE-AXIAL LEAD;125V,10A,FAST-ACTING,EPO	
5	EY430	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT102	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
5	EY431	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT404	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
5	EY432	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT405	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
5	EY433	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT406	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
5	EY434	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT409	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
5	EY435	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT410	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
5	EY436	6042-000002	EYELET;ID1.5,0D2,L3.1,SN,BSS3-E/EH	S.N.A	5	GT411	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
5	GT412	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	Q908	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
5	GT801	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	Q909	0505-000109	FET-SILICON;2N7000,N,60V,200mA,5ohm,400m	
5	GT802	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	Q910	0505-000109	FET-SILICON;2N7000,N,60V,200mA,5ohm,400m	
5	GT803	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	Q912	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
5	GT804	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	Q913	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
5	GT805	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	Q914	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
5	GT806	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	R101	2001-000938	R-CARBON;680HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	GT807	AA60-40014A	PIN-GT,ASSY,AUTO	S.N.A	5	R102	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	HIC401	AA13-00094A	IC HYBRID;DDR1001A,SIP5P,-,TP		5	R103	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	IC202	1203-001944	IC-POSI.FIXED REG.;78RM33,TO-220,3P,-,PL		5	R104	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	IC402	1203-000243	IC-POSI.FIXED REG.;7812A,TO-220,3P,-,PLA		5	R105	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	IC804	1203-001217	IC-POSI.ADJUST REG.;431,TO-92,3P4.58MIL		5	R106	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	IC903	1203-001944	IC-POSI.FIXED REG.;78RM33,TO-220,3P,-,PL		5	R107	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	IC904	1203-001943	IC-VOL. DETECTOR;7025,TO-92,3P,-,PLASTIC		5	R108	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	J709	2001-000376	R-CARBON;150HM,5%,1/8W,AA,TP,1.8X3.2MM		5	R203	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L101	2701-000115	INDUCTOR-AXIAL;10uH,10%,3x7mm		5	R204	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L102	2701-000159	INDUCTOR-AXIAL;22uH,10%,4.2x9.8mm		5	R301	2001-001163	R-CARBON(S);560OHM,5%,1/2W,AA,TP,2.4X6.4	
5	L103	2701-000115	INDUCTOR-AXIAL;10uH,10%,3x7mm		5	R302	2004-001369	R-METAL(S);1.2Kohm,1%,1/2W,AA,TP,2.4X6.4	
5	L104	2701-000159	INDUCTOR-AXIAL;22uH,10%,4.2x9.8mm		5	R303	2001-000016	R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM	
5	L106	2701-000115	INDUCTOR-AXIAL;10uH,10%,3x7mm		5	R304	2008-001088	R-FUSIBLE(S);1ohm,5%,2W,AG,TP,3.9x12mm	
5	L201	2701-000200	INDUCTOR-AXIAL;5.6uH,10%,4.2x9.8mm		5	R305	2003-002157	R-METAL OXIDE;220OHM,5%,2W,AG,TP,6X16MM	
5	L203	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-		5	R306	2003-002157	R-METAL OXIDE;220OHM,5%,2W,AG,TP,6X16MM	
5	L301	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm		5	R307	2008-001088	R-FUSIBLE(S);1ohm,5%,2W,AG,TP,3.9x12mm	
5	L402	2901-000299	FILTER-EMI ON BOARD;-,6A,UL/CSA,-,9x7.5,		5	R308	2004-001369	R-METAL(S);1.2Kohm,1%,1/2W,AA,TP,2.4X6.4	
△	L403	2701-001040	INDUCTOR-AXIAL;10uH,10%,4.5x14mm		5	R309	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L404	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,		5	R310	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L407	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-		5	R314	2001-001117	R-CARBON(S);2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
5	L409	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-		5	R315	2001-001117	R-CARBON(S);2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
5	L410	2901-000299	FILTER-EMI ON BOARD;-,6A,UL/CSA,-,9x7.5,		5	R316	2001-001129	R-CARBON(S);330KOHM,5%,1/2W,AA,TP,2.4X6.4	
5	L601	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		5	R317	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.4X6.4	
5	L602	2701-000169	INDUCTOR-AXIAL;3.9uH,10%,2.5x3.4mm		5	R401	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x	
5	L603	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R402	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x	
5	L604	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R403	2003-002064	R-METAL OXIDE;7.5ohm,5%,2W,AF,TP,10x3.9m	
5	L605	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R405	2008-001011	R-FUSIBLE(S);0.18ohm,10%,2W,AF,TP,3.9x10m	
5	L606	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R409	2003-000998	R-METAL OXIDE;300ohm,5%,2W,AF,TP,3.9x10m	
5	L607	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R410	2003-000998	R-METAL OXIDE;300ohm,5%,2W,AF,TP,3.9x10m	
5	L608	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R411	2001-000028	R-CARBON(S);1000HM,5%,1/2W,AA,TP,2.4X6.4	
5	L609	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		5	R412	2003-000592	R-METAL OXIDE(S);22ohm,5%,2W,AF,TP,4x12m	
5	L610	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,		5	R413	2008-001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10m	
5	L612	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-		5	R414	2008-000253	R-FUSIBLE(S);0.47ohm,5%,1W,AF,TP,3.9x10m	
5	L613	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-		5	R415	2004-001983	R-METAL(S);2.49Kohm,1%,1/2W,AA,TP,2.4X6.4	
5	L614	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,		5	R416	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x	
5	L615	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,		5	R418	2001-001114	R-CARBON(S);2700HM,5%,1/2W,AA,TP,2.4X6.4	
5	L701	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm		5	R419	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
5	L702	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm		5	R420	2004-001987	R-METAL(S);4.3Kohm,1%,1/2W,AA,TP,2.4X6.4	
5	L703	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R421	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
5	L704	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R422	2008-000251	R-FUSIBLE(S);0.27ohm,5%,2W,AF,TP,3.9x10m	
5	L705	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R423	2001-001055	R-CARBON(S);1.8KOHM,5%,1/2W,AA,TP,2.4X6.4	
5	L706	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm		5	R424	2008-001109	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12	
5	L801	3301-001223	CORE-FERRITE BEAD;AA,62ohm,3.5x0.8x5mm,-		5	R425	2008-001109	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12	
5	L802	3301-001223	CORE-FERRITE BEAD;AA,62ohm,3.5x0.8x5mm,-		5	R426	2003-000540	R-METAL OXIDE(S);1Kohm,5%,2W,AF,TP,4x12m	
5	L803	3301-001223	CORE-FERRITE BEAD;AA,62ohm,3.5x0.8x5mm,-		5	R428	2004-000698	R-METAL;3.3Kohm,1%,1/4W,AA,TP,2.4X6.4m	
5	L804	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-		5	R430	2004-002016	R-METAL(S);15Kohm,1%,1/2W,AA,TP,2.5x6.5m	
5	L805	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,		5	R431	2004-002016	R-METAL(S);15Kohm,1%,1/2W,AA,TP,2.5x6.5m	
5	L806	3301-001223	CORE-FERRITE BEAD;AA,62ohm,3.5x0.8x5mm,-		5	R432	2001-001164	R-CARBON(S);56KOHM,5%,1/2W,AA,TP,2.4X6.4	
5	L807	2901-000299	FILTER-EMI ON BOARD;-,6A,UL/CSA,-,9x7.5,		5	R433	2003-000540	R-METAL OXIDE(S);1Kohm,5%,2W,AF,TP,4x12m	
5	L809	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,		5	R434	2003-002064	R-METAL OXIDE;7.5ohm,5%,2W,AF,TP,10x3.9m	
5	L811	2701-001030	INDUCTOR-AXIAL;43uH,10%,5x14mm		5	R435	2003-001042	R-METAL OXIDE(S);5.6Kohm,5%,2W,AF,TP,3.9	
5	L901	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		5	R440	2004-001893	R-METAL(S);22Kohm,1%,1/2W,AA,TP,2.5x6.5m	
5	L902	2701-000184	INDUCTOR-AXIAL;4.7uH,10%,2.5x3.4mm		5	R601	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L903	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		5	R602	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L904	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		5	R603	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L906	2701-000215	INDUCTOR-AXIAL;8.2uH,10%,2.5x3.4mm		5	R604	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L907	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm		5	R605	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L908	2701-000191	INDUCTOR-AXIAL;47uH,10%,2.5x3.4mm		5	R606	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
5	L909	2701-000191	INDUCTOR-AXIAL;47uH,10%,2.5x3.4mm		5	R607	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	PCB	AA41-00707B	PCB-MAIN;CS2926HPFR-1,1LB,1.6T,330X245	S.N.A	5	R608	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q404	0505-000156	FET-SILICON;IRF620,N,200V,5A,0.8ohm,50W,		5	R609	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q601	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R610	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q603	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R611	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q801	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R612	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q802	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1000mW,TO-		5	R613	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q803	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R614	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q901	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R615	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q906	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R616	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
5	Q907	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T		5	R617	2001-001015	R-CARBON;9.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Level	Loc. No.	Code No.	Description ; Specification	Remark
5	R618	2001-001015	R-CARBON;9.1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R623	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R624	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R626	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP2.4X6.4M	
5	R627	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP2.4X6.4M	
5	R628	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R629	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R630	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R631	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R632	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R633	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R634	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP2.4X6.4	
5	R635	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP2.4X6.4	
5	R636	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R637	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R638	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R639	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R704	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R710	2001-000376	R-CARBON;150OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R715	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R716	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R717	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R718	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R723	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R801	2001-000019	R-CARBON(S);100HM,5%,1/2W,AA,TP2.4X6.4M	
5	R802	2003-000586	R-METAL OXIDE(S);22Kohm,5%,2W,AF,TP4x12	
5	R803	2003-000586	R-METAL OXIDE(S);22Kohm,5%,2W,AF,TP4x12	
5	R804	2003-000586	R-METAL OXIDE(S);22Kohm,5%,2W,AF,TP4x12	
5	R805	2001-001150	R-CARBON(S);47KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R806	2001-001150	R-CARBON(S);47KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R807	2001-001103	R-CARBON(S);20KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R808	2001-001197	R-CARBON(S);910OHM,5%,1/2W,AA,TP2.4X6.4	
5	R809	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R810	2001-000109	R-CARBON(S);470OHM,5%,1/2W,AA,TP2.4X6.4	
5	R811	2001-001155	R-CARBON(S);5.6KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R812	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R813	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R815	2008-000284	R-FUSIBLE(S);0.1OHM,10%,2W,AF,TP3.9X10M	
5	R816	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R817	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R818	2001-001131	R-CARBON(S);33KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R819	2004-001983	R-METAL(S);2.49Kohm,1%,1/2W,AA,TP2.4X6.4	
5	R820	2001-001096	R-CARBON(S);2.2OHM,5%,1/2W,AA,TP2.4X6.4	
5	R821	2004-001891	R-METAL(S);133Kohm,1%,1/2W,AA,TP2.5x6.5	
5	R822	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R823	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R824	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R827	2008-000284	R-FUSIBLE(S);0.1OHM,10%,2W,AF,TP3.9X10M	
5	R828	2008-001188	R-FUSIBLE(S);1ohm,5%,2W,AG,TP3.9x12mm	
5	R829	2008-001048	R-FUSIBLE;3.3OHM,5%,1W,AG,TP3.9X12MM	
5	R830	2003-002157	R-METAL OXIDE;220OHM,5%,2W,AG,TP6X16MM	
5	R833	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R835	2003-002181	R-METAL OXIDE(S);68Kohm,5%,2W,AG,TP3.9x	
5	R838	2001-001050	R-CARBON(S);1.5KOHM,5%,1/2W,AA,TP2.4X6.4	
5	R840	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R841	2001-000800	R-CARBON;5.1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R842	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R901	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R902	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R903	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R904	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R905	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R906	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R907	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R908	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R909	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R910	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R911	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R912	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R913	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R914	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R915	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R916	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R917	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R919	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R920	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R921	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	

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5	R922	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R923	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R924	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R925	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R926	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R927	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R928	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R935	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R936	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R937	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R938	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R940	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R941	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R942	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R945	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R946	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R947	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R948	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R951	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R952	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R953	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R954	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R955	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R958	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R960	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R961	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R962	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R963	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R965	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R966	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R967	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R968	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R972	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R973	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R974	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R981	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R982	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R983	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R984	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP1.8X3.2MM	
5	R988	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP1.8X3.2MM	
△	5	RR430S	R-METAL(S);1Kohm,2%,1/2W,AA,TP2.4x6.4mm	
△	5	RX801S	R-COMPOSITION;3.3Mohm,5%,1/2W,AA,TP3.7x	
△	5	RY801S	R-COMPOSITION;8.2Mohm,5%,1/2W,AA,TP3.7x	
△	5	VP801S	1405-000187 VARISTOR;750V,1250A,12.5x7mm,TP	
△	5	VX801S	1405-000187 VARISTOR;750V,1250A,12.5x7mm,TP	
5	X901	2801-003728	CRYSTAL-UNIT;6MHz,30ppm,28-AAM,20pF,40oh	
3		AA61-00707B	HOLDER-COVER;ALL MODEL,NYLON-66 T1.0 V2,	S.N.A
3		AA39-20536G	LEAD CONNECTOR-ASSY;1P,60MM,F,1617#22	
2		AA94-11730A	ASSY PCB MISC-MASTER;26,Z7Z9,K55A,S57A,P	
3		AA39-20179C	LEAD CONNECTOR-ASSY;3(2P)600MM,YFH800-	
3		6003-000333	SCREW-TAPTITE,RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A
3		6003-000333	SCREW-TAPTITE,RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A
△	3	SW811S	SWITCH-PUSH;250V,5A,DPST,ON-OFF-	
3		AA97-06539A	ASSY AUTO-MASTER;WS36248D,K54A,PAL	S.N.A
4	EY01	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	EY02	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	EY03	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	EY04	6042-000002	EYELET;ID1.5,OD2,L3.1,SN,BSS3-E/EH	S.N.A
4	GTY05	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	GTY06	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	GTY07	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	GTY08	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	GTY09	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	GTY10	AA60-40014A	PIN-GT,ASSY;AUTO	S.N.A
4	PCB	AA41-00521A	PCB-MASTER S/W;CS32Z4,FR-1,1LA,1.6T,245	S.N.A
3		AA61-00719B	HOLDER-MASTER;T6,W3,HIPS,V0,BLK,J52A	S.N.A
3		0202-000187	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb	S.N.A
2		AA94-11731A	ASSY PCB MISC-LED;CS29Z6H,PJX/BWT,K55A	S.N.A
3	CN01	AA39-20069A	LEAD CONNECTOR-ASSY;5P,500,YBNH025-05,6	
3	CY01	2401-000291	C-AL;47uF,20%,16V,GPTP6.3x5.5	
3	LD01	0601-001381	LED;ROUND,RED,GRN,5.0MM,650/563NM	
3	RM01	AA32-00012A	MODULE REMOCON;ORC-50HF2,38KHz,940NM,MES	
3		0202-000187	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb	S.N.A
3		AA97-12478A	ASSY AUTO-LED;CS29Z6,K55A	S.N.A
4	DC01	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DQ-35,	
4	DC02	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DQ-35,	
4	PCB	AA41-00702A	PCB-LED;WS32Z6HF,FR-1,1LA,1.6T,245X245,	S.N.A

Level	Loc. No.	Code No.	Description ; Specification	Remark
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4 RY01 2001-000020 R-CARBON(S);220HM,5%,1/2W,AA,TP2.4X6.4M

ASSY COVER REAR

1 AA90-03248B ASSY COVER REAR;CS29Z6HPJX/BWT S.N.A

2 AA65-30008A CLAMPER CORE-CORD;-;PE,HB,-;BLK,- S.N.A

2 AA64-02745C CABINET BACK;29Z6,ABS,VO,G4309,SVM2012

ASSY COVER FRONT

1 AA90-03245B ASSY COVER FRONT;CS29Z6HPJ/BWT S.N.A

2 BRK+CF 6002-000522 SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR

2 CA+CF 6003-001268 SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL) S.N.A

2 CB+CF AA60-10050T SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S, S.N.A

2 CB+TBA AA60-10050T SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S, S.N.A

2 CC+CF 6003-001268 SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL) S.N.A

2 CRT+CF AA60-10050V SCREW-ASSY;-;SWRCH18A,M6,L30,HH,+,WC,-;Z S.N.A

2 D-COIL AA65-30017A CLAMPER CORE-D.COIL;-;NYLON-66,VO,-;NTR, S.N.A

2 PP+CF 6003-001268 SCREW-TAPTITE;TH,+,B,M4.0,L12.0,ZPC(YEL) S.N.A

2 SPK+CF 6006-001095 SCREW-ASSY TAPT;WR,BH,+,M4,L12,ZPC(YEL) S.N.A

2 TBA+RJ AA60-10050T SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S, S.N.A

2 AA96-00932D ASSY COVER P-FRONT;29Z6,CS29Z6HFABS HB0

2 DP+CF 6003-001019 SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR S.N.A

3 KNOPOW AA61-60003J SPRING ETC-CS;-;SUS304,-;-;OD6,N7,OD6,-; S.N.A

3 AA64-02753A INDICATOR LED;29Z6,ACRYL,HB,CLEAR S.N.A

3 AA64-70117B BADGE-BRAND;-;AL,-;-;L65,R2000,SILVER,SS S.N.A

3 AA65-00011C CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2, S.N.A

3 AA60-00091C SPACER-FELT;-;FELT,230X10,-;-;BLK,T1.0,- S.N.A

3 AA65-30105A CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2, S.N.A

3 AA64-02752A WINDOW-RMC;29Z6,PC,VO,VIOLET S.N.A

3 AA60-00091G SPACER-FELT;-;FELT,200X10,-;-;BLK,T0.5,- S.N.A

3 AA64-02744D CABINET-FRONT;CS29Z6HFABS,HB0690M,G4309 S.N.A

3 AA64-02750A DECORATION-POWER;29Z6,ABS,HB,GRAY,AL

3 AA64-02751B KNOB-POWER;29Z6,PC,VO,VIOLET,MASTER

2 AA73-00005B RUBBER-CAP;FLAT,PRJ,SILICONE RUBBER,WHIT S.N.A

2 AA73-00017A RUBBER-CAP;29Z7,SILICONE RUBBER,WHIT S.N.A

2 AA96-00967D ASSY COVER P-RACK;TR-29Z6,SVM2012,DIY,SP

2 AA91-00507A ASSY HOLDER SPK;-;-;80HM/15W,-;ASSY HOLD

2 AA65-00019A CLAMPER CORE-D.COIL;25-34,NYLON 66,V2,N S.N.A

2 AA63-60004K SPACER-GUM,CRT;-;NTR RUBBER,-;-;BLK,T2 S.N.A

2 AA61-10054A BRACKET-CRATER;6277,STS304,T0.5,-;-;-; S.N.A

ASSY CPT

1 AA91-03134A ASSY CPT;CT-29Z4HR S.N.A

2 AA91-02173Q ASSY CPT;A68QCP891X004,29,+380MG,ITC,CT S.N.A

△ 3 AA03-00076A CRT COLOR;A68QCP891X004(C),+380mG,0.315m

2 AA98-70011D ASSY TBC WIRE(P);-;29',NTSC,PAL,2P-WH,- S.N.A

2 AA27-00128A COIL DEGAUSSING;-;-;-;50T,7,-;29inch,2

ASSY P/MATERIAL

1 AA92-05371B ASSY P/MATERIAL;CS29Z6HFGX/BWT S.N.A

2 AA69-00744F BAG-SHEET;-;HDPE PE FOAM,T0.015,W1400,H1 S.N.A

2 AA69-00306A BAG AIR;LDPE,-;1800,1000,CLR,ASSY,ALL,- S.N.A

2 AA69-00305A BAG AIR;ALL,LDPE,1000,500,CLR, S.N.A

2 AA63-10007C BAND-PP;W18,CLEA,1G S.N.A

2 AA60-40006A PIN-STAPLE;AUTO,33X17.8X2.4,H18,33X17.8X S.N.A

ASSY ACCESSORY

1 AA92-06199A ASSY ACCESSORY;29Z6,RUSSIA,K55A S.N.A

2 1 AA68-02479A MANUAL USERS;CS29Z7HP,RUS,K55A,PIPTTX

Level	Loc. No.	Code No.	Description ; Specification	Remark
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2 6801-001073 CARD-REGISTRATION;RUS,XEV,RUS,MOJO100,-; S.N.A

2 AA59-00266D REMOCON;TM63,HERCULES,45,SAMSUNG,EX,RUSS

3 2802-000194 RESONATOR-CERAMIC;8MHz,1.0%,TP8.5x4.5x5

3 AA09-00275A IC MICOM;Z86L8808SSC-R51PX,SOPST,SZTM-8

2 AA68-00952A CARD-COUPON;-;A/P100(G),AA68-00949A,-;-; S.N.A

2 AA69-00862A BAG PE;-;HDPE PE FOAM,T0.03,W400,H240,-; S.N.A

2 AA68-01402A MANUAL-GOOD WILL LETTER;-;CIS,B5,1PAGE,A/ S.N.A

2 AA68-01120A MANUAL SERVICE;-;-;CIS,A4,6PAGE(FOLD),W/ S.N.A

2 AA68-00816B CARD WARRANTY-01;-;RUSSINA,2,W/P 120G,BOT S.N.A

ASSY LABEL

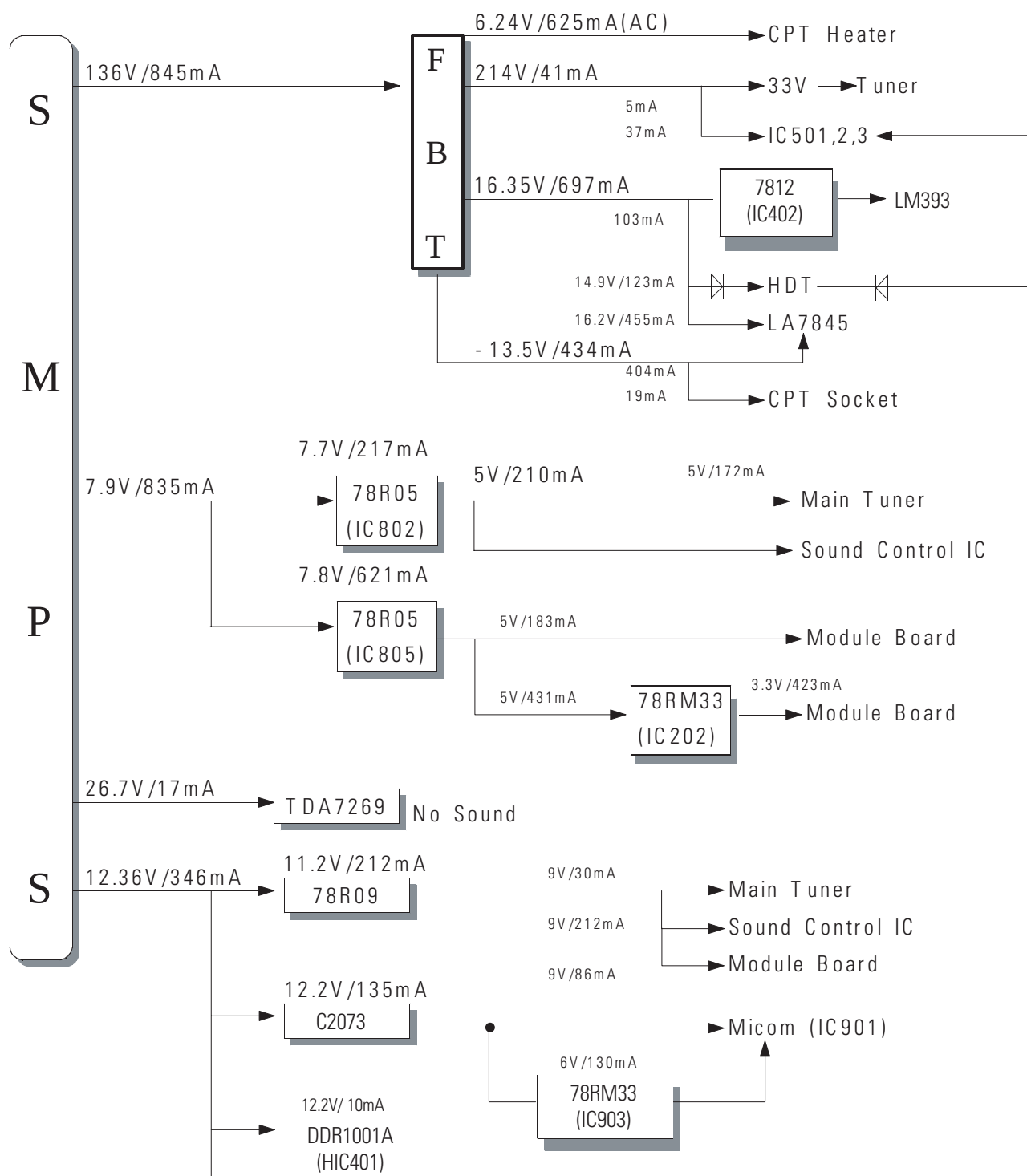
1 AA92-05518C ASSY LABEL;29Z6,K55A,RUSSIA S.N.A

ASSY BOX

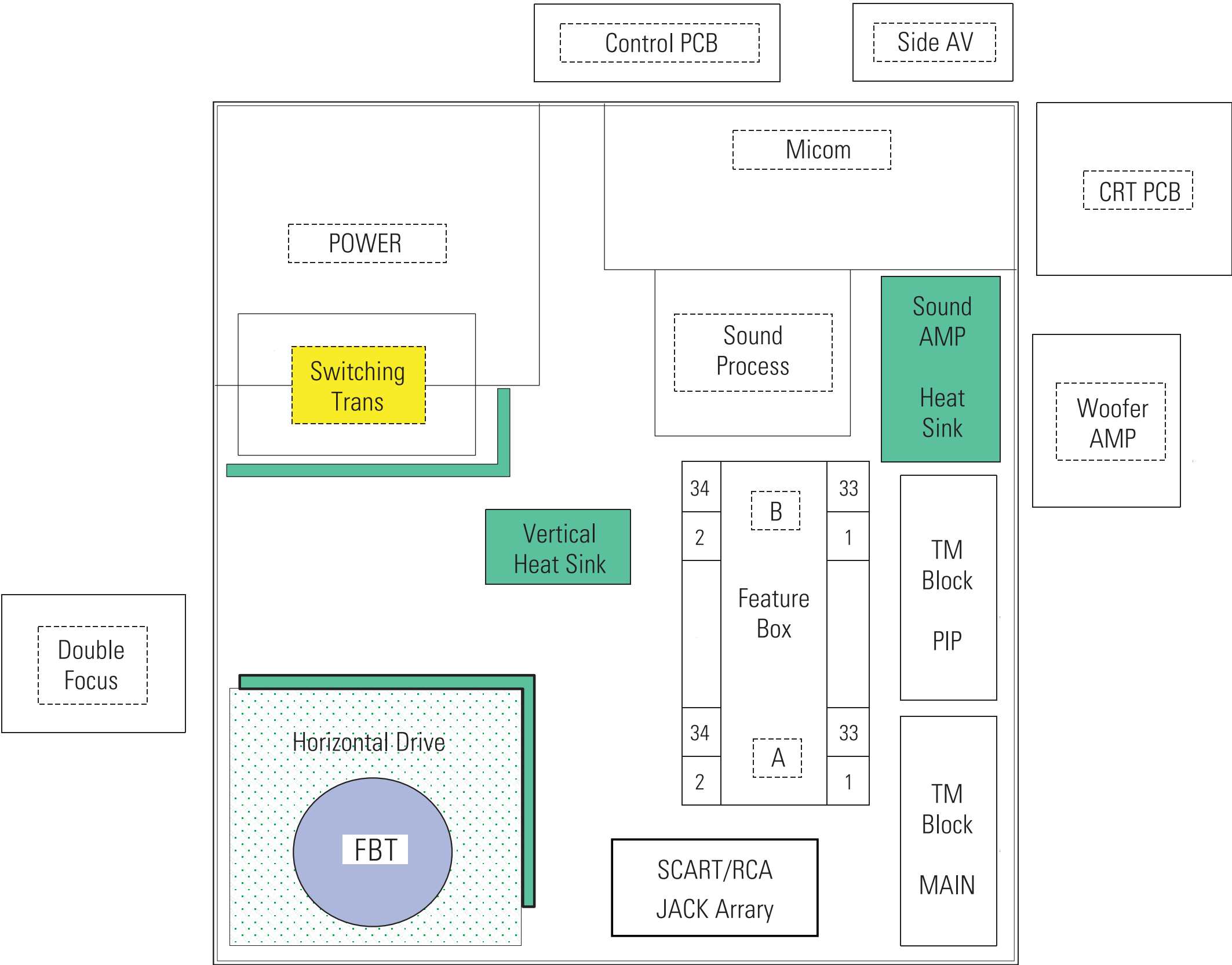
1 AA92-05368B ASSY BOX;CS29Z6HPJX/BWT S.N.A

8. Block Diagram

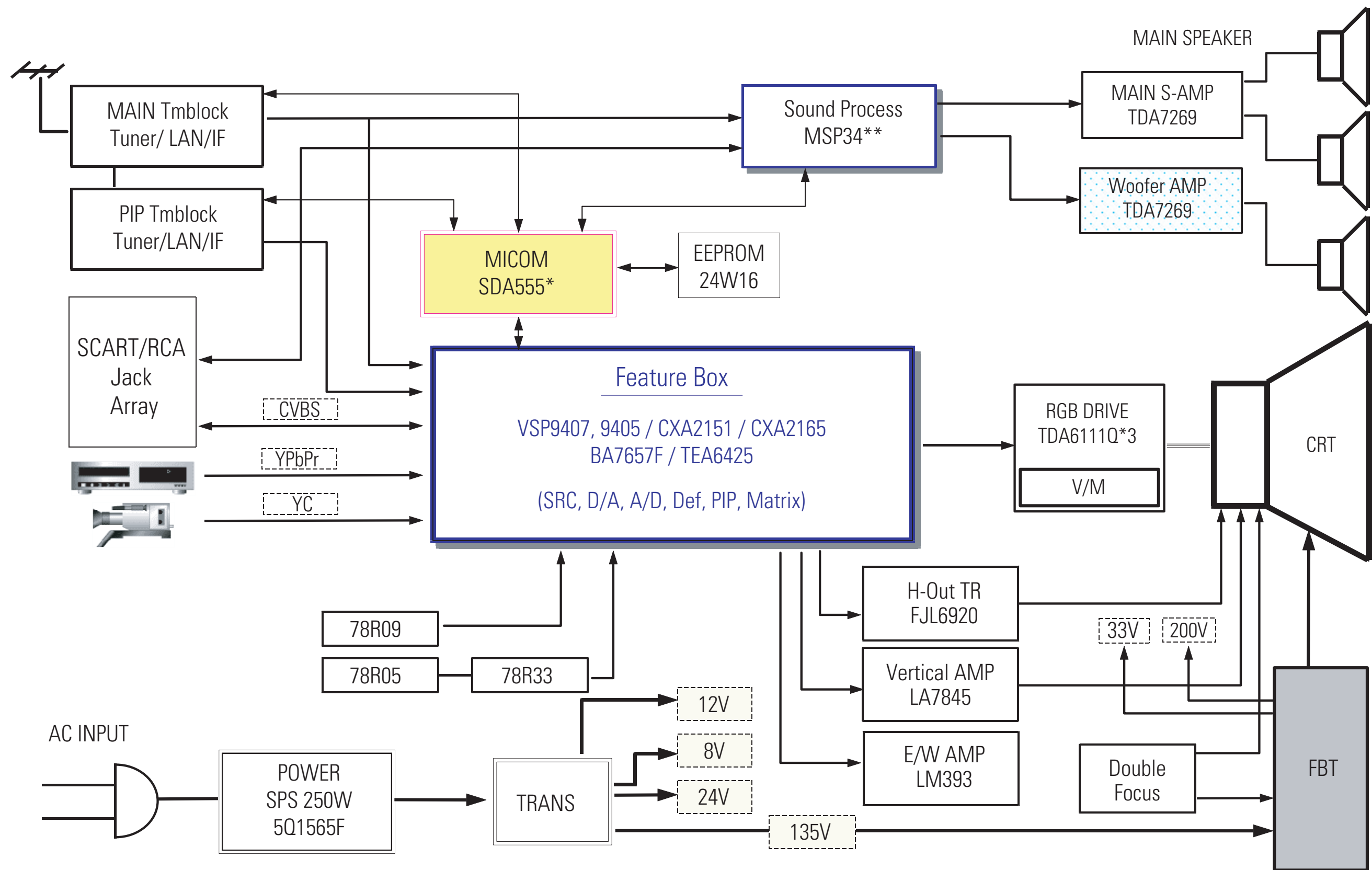
8-1 Voltage / Current Block Diagram



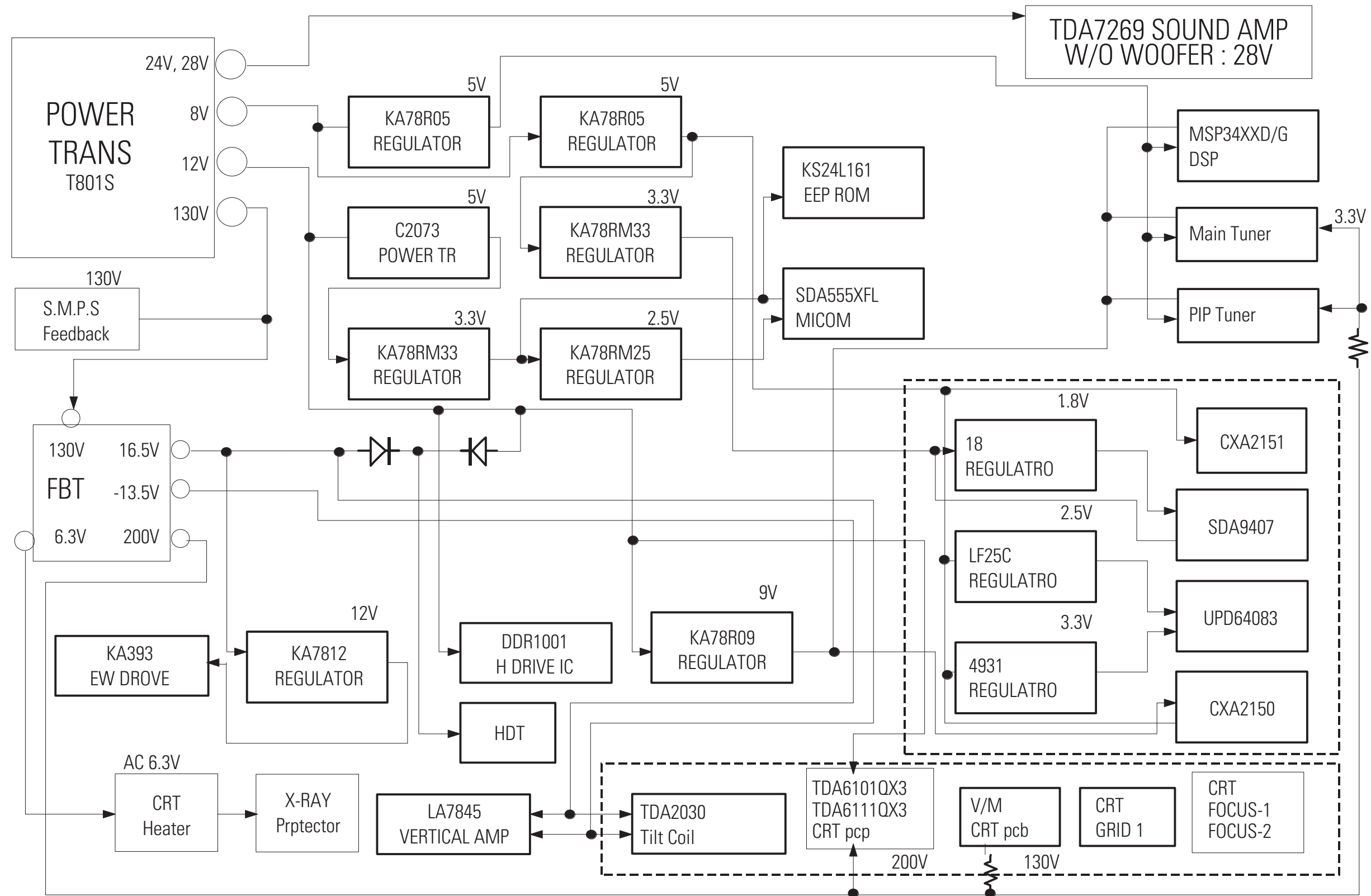
8-2 PCB Layout



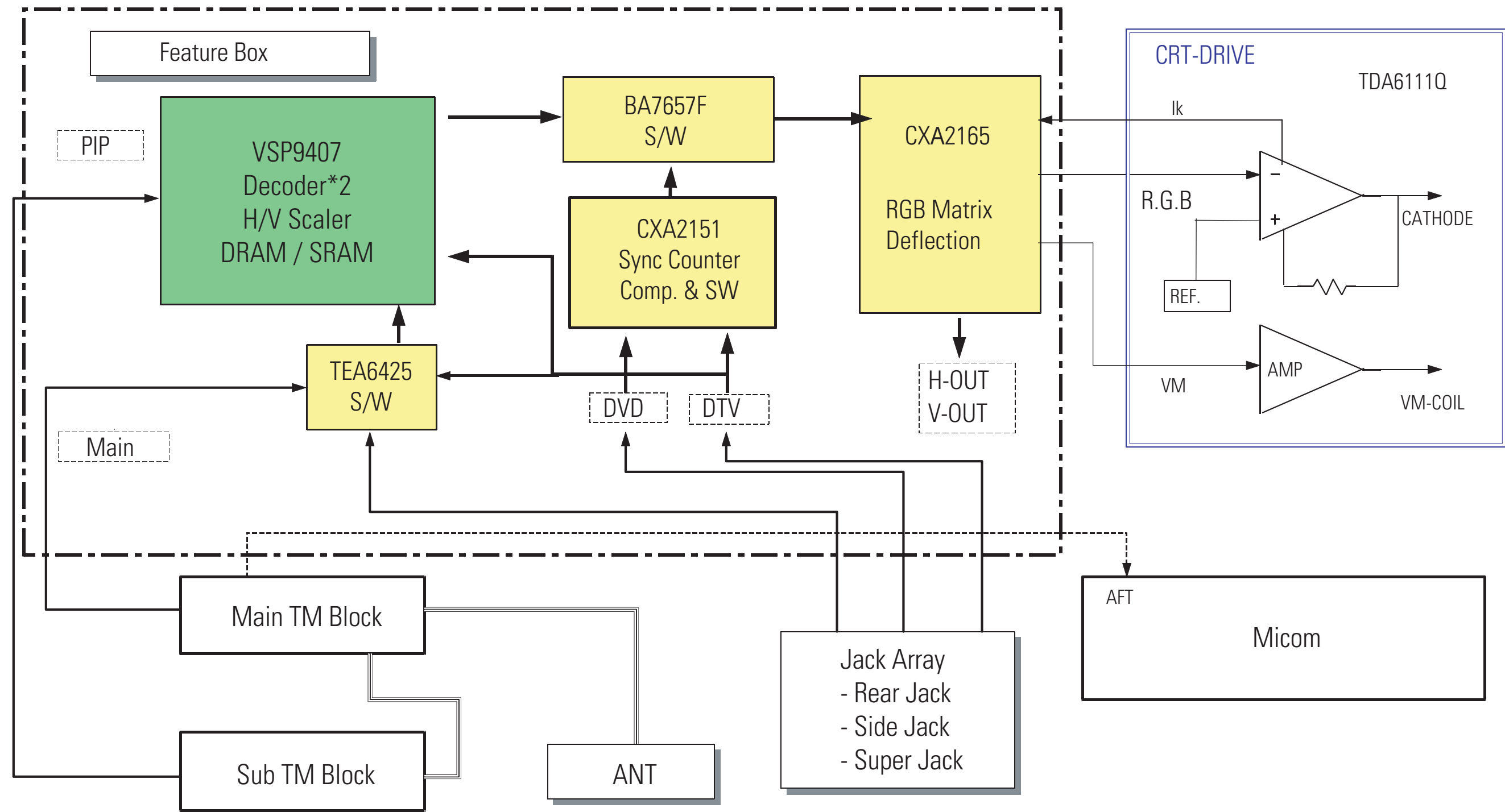
8-3 System Block Diagram



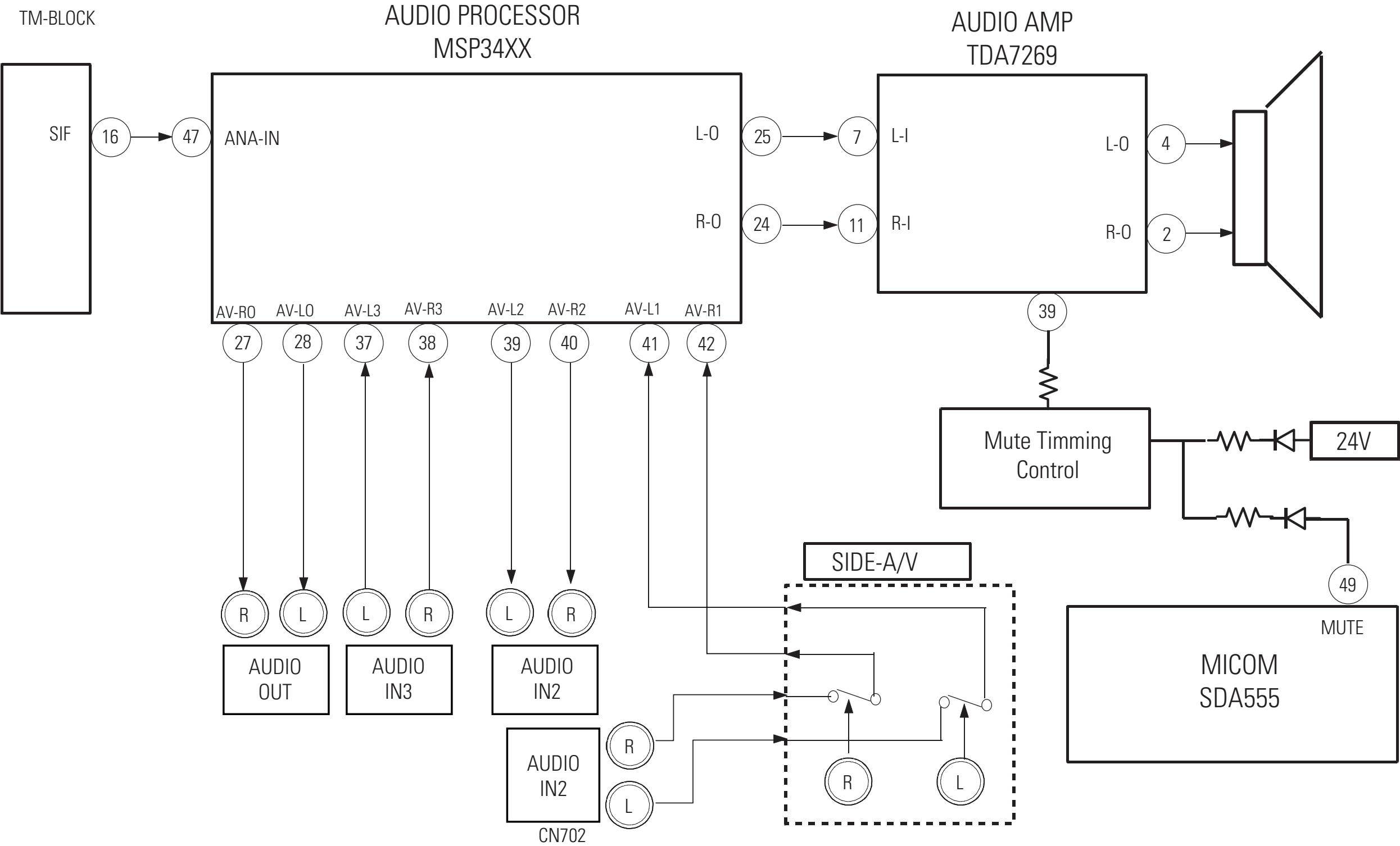
8-4 Power Block Diagram



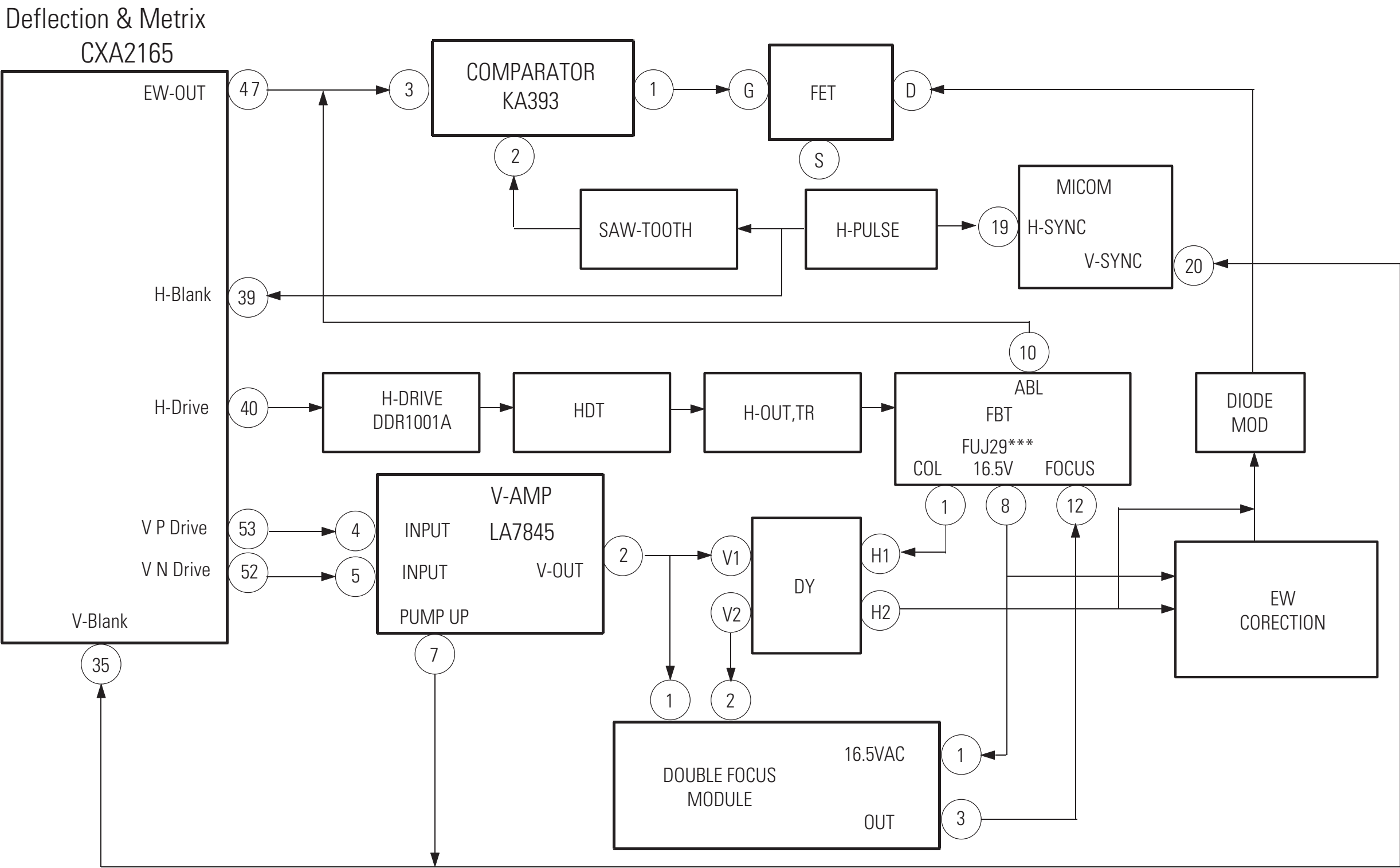
8-5 Video Signal Block Diagram



8-6 Sound Signal Block Diagram

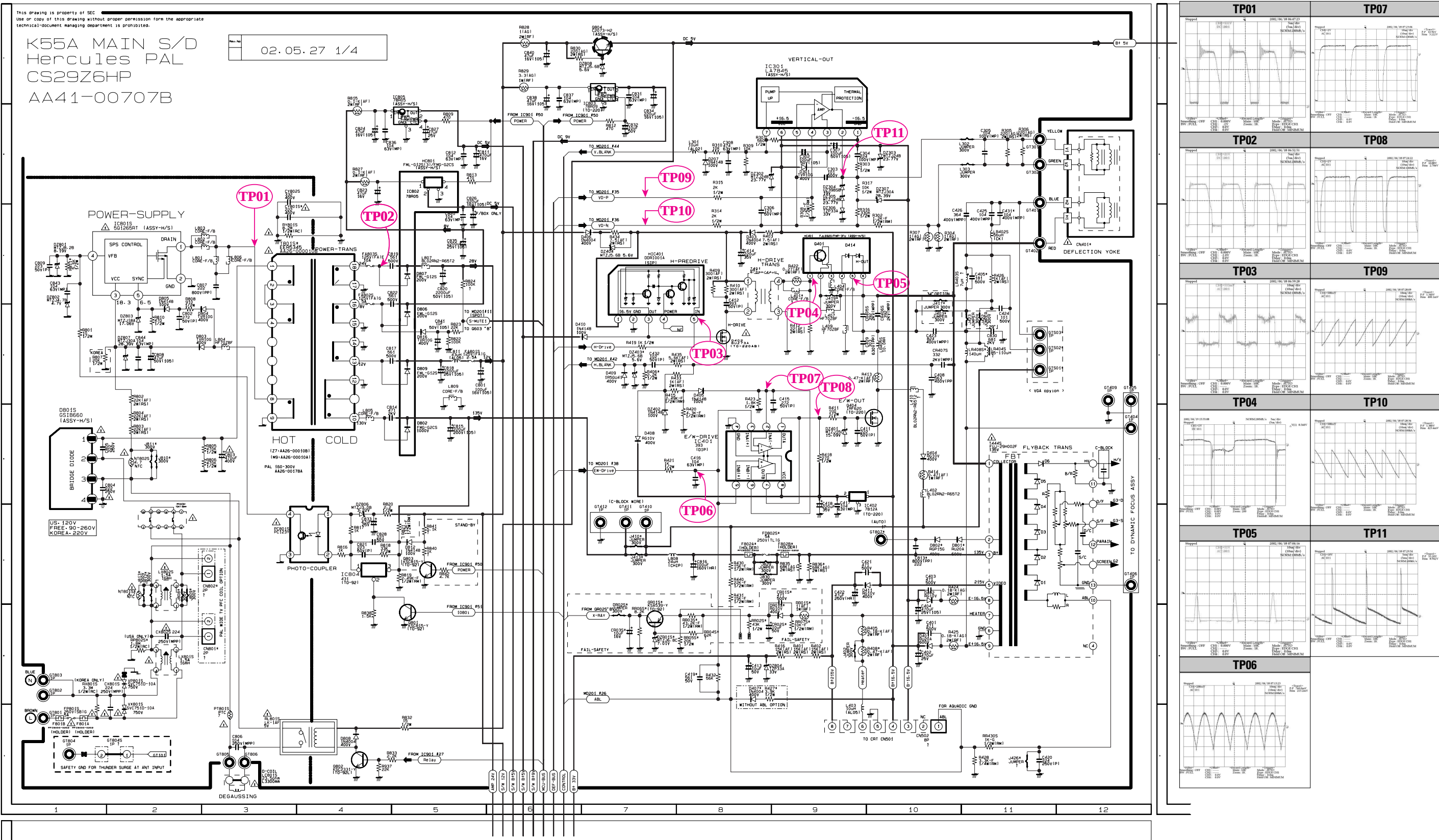


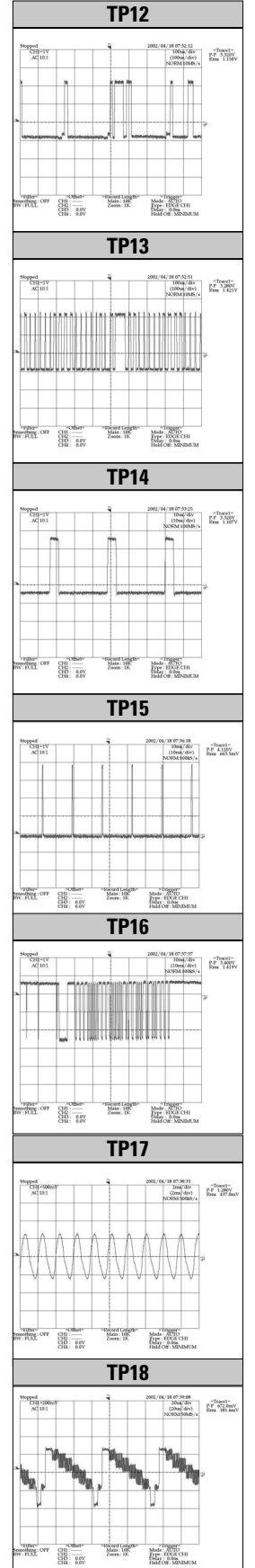
8-7 Deflection Block Diagram



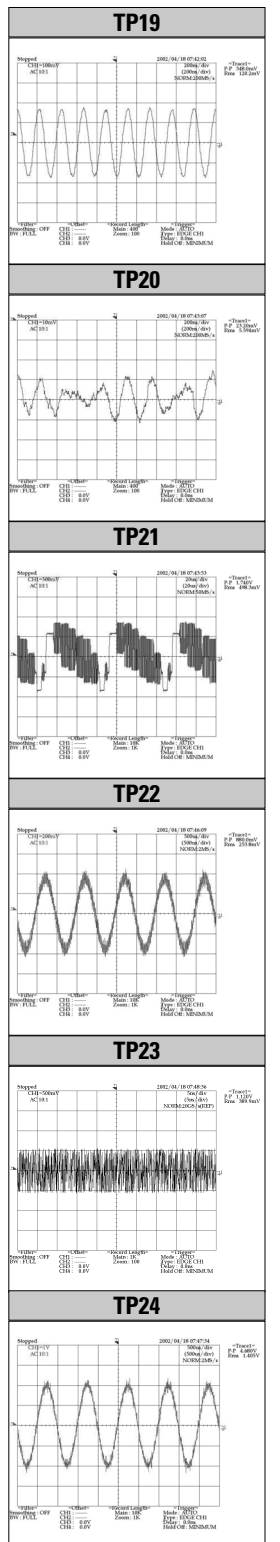
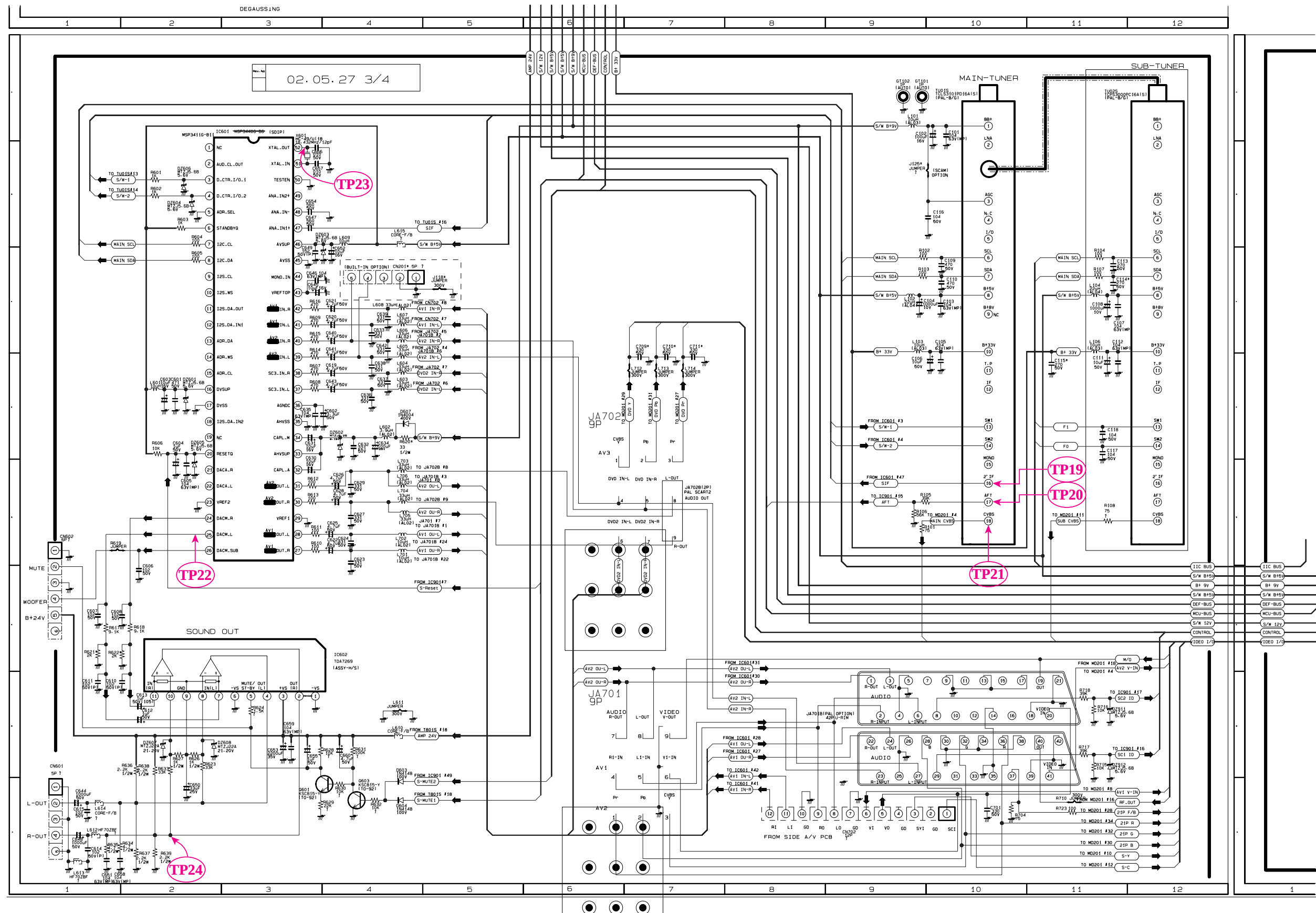
9. Schematic Diagrams

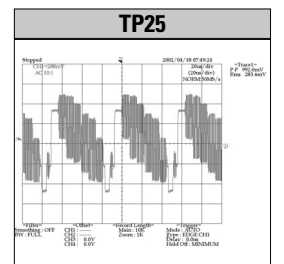
9-1 MAIN 1



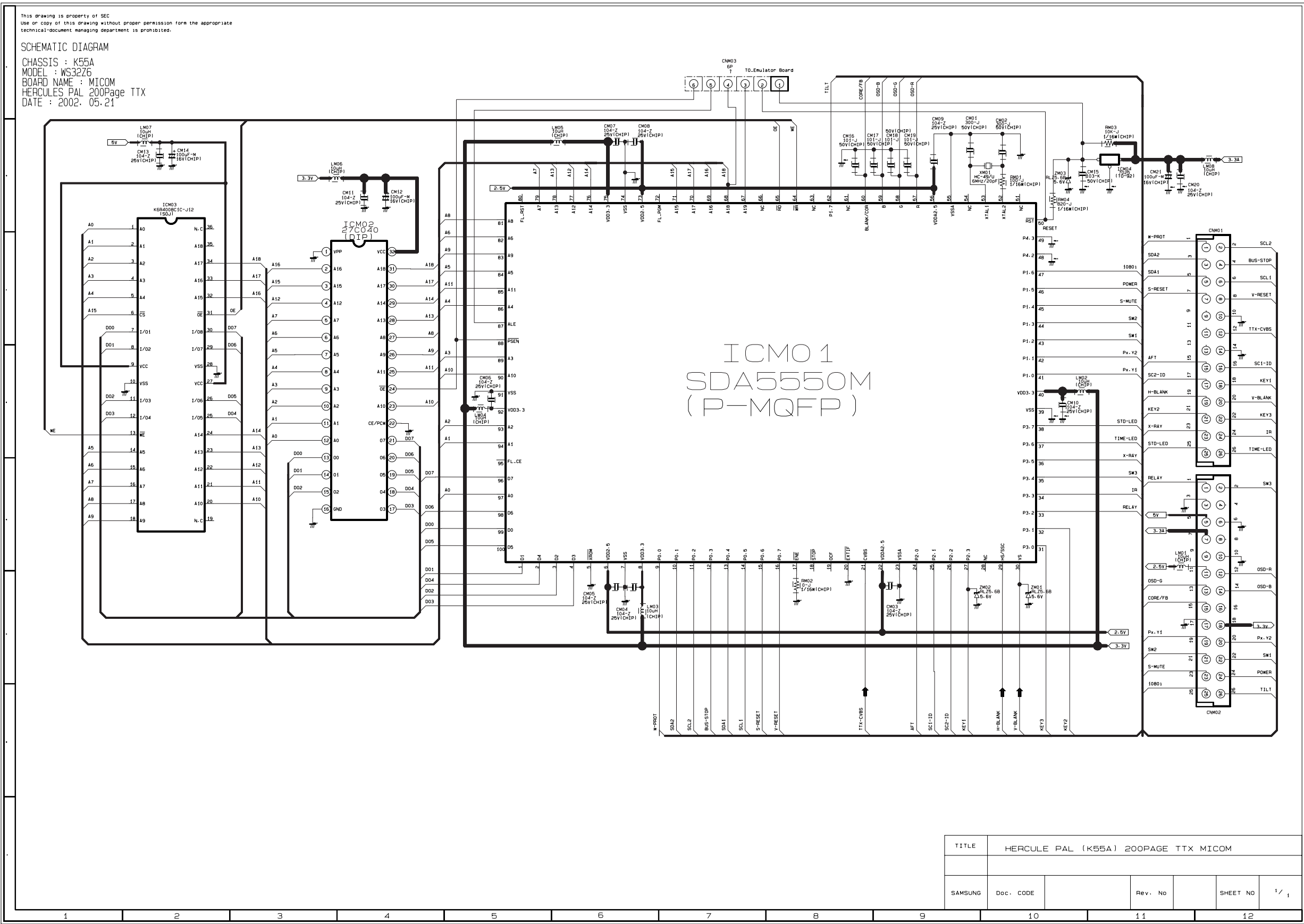


9-3 MAIN 3



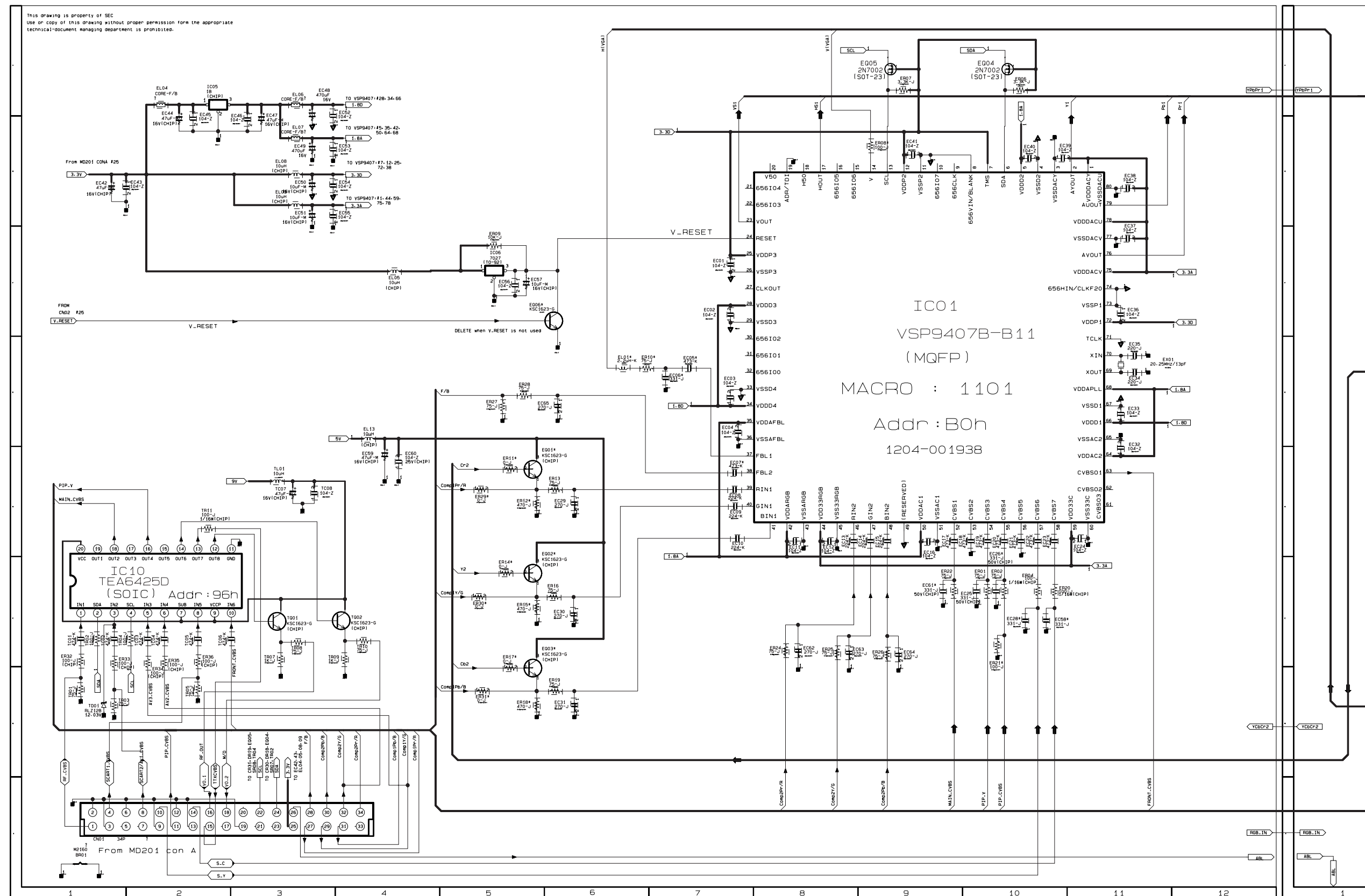


9-5 MICOM





9-7 F-BOX 1

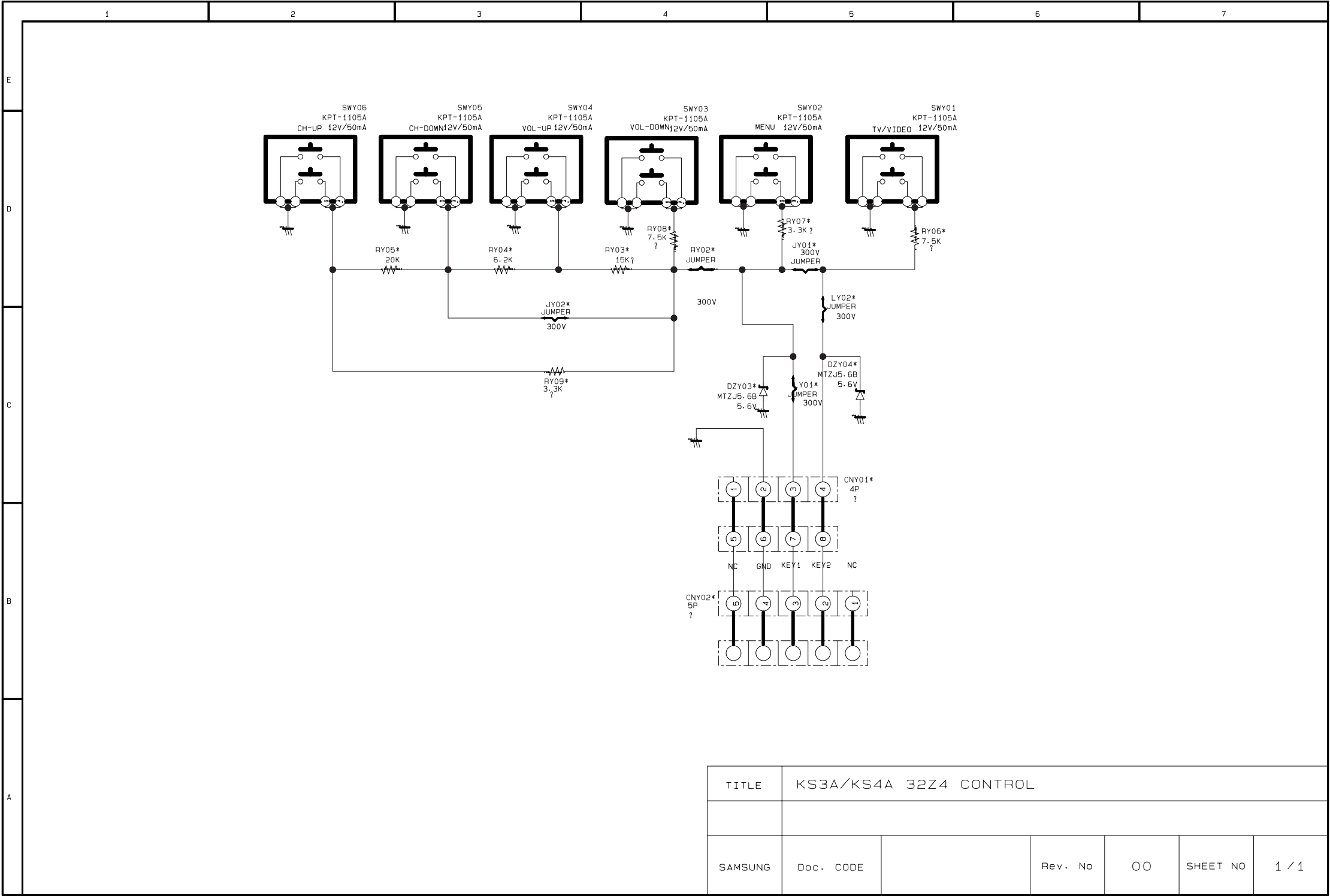






9-10 CONTROL

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9-11 A/V SIDE

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