

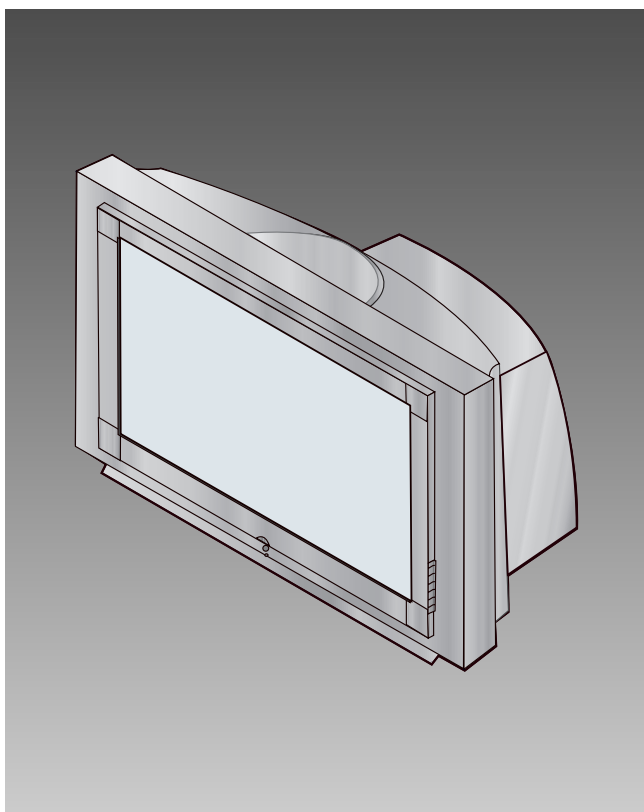


COLOR TELEVISION RECEIVER

Chassis : KS4A(P)
Model : CS29Z4HF9X/BWT
CS34Z4HF9X/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.

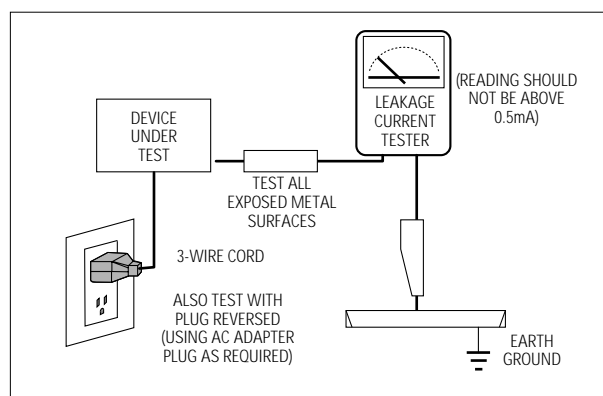


Fig. 1-1 AC Leakage Test



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.

2. Reference Information

2-1 Tables of Abbreviations and Acronyms

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

Table 2-2 Table of Acronyms

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

2-2 IC Line Up

Block	Des-Loc	Part-Number	IC Name	Description
MAIN	IC601	1204-001775	MSP3410G-C5	IC-SOUND PROCESSOR
	IC701	1001-001073	TEA6415C	IC-VIDEO SWITCH
	IC702	1001-001113	TEA6422	IC-AUDIO SWITCH
	IC703	1002-001193	PCF8591P	IC-A/D & D/A CONVERTER
	TU01	AA40-00017A	TCLN318PA09A(S)	TUNER-F/S "PAL B/G D/K,I,M,T R,181CH"
	TUP01	AA40-00019A	TCPN3081PC09A(S)	TUNER-F/S "PAL B/G D/K,I,M,T R,181CH"
	IC905	1103-001213	M24C16	IC-EEPROM
	ICG01	0801-000314	74HCT86	IC-CMOS LOGIC
	ICS02	1204-001113	TEA6422	IC-AUDIO SWITCH
	IC602	1201-000407	TDA7050	IC-POWER AMP
	IC603	1201-001026	TDA7265	IC-POWER AMP
	IC804	1203-000203	SI3050	IC-POSI.ADJUST REG.
	IC805	1203-000203	SI3050	IC-POSI.ADJUST REG.
	ICS01	1201-001114	TEA6425	IC-VIDEO SWITCH
	IC802	1203-000293	KA7808	IC-POSI.FIXED REG.
	IC803	1203-000298	KA7809	IC-POSI.FIXED REG.
	IC101	1001-001038	SAA1300	I/O PORT
	ICD02	1201-000191	4558	IC-OP AMP
	ICD603	1201-001026	TDA7265	IC-POWER AMP
	ICS03	1001-000223	TEA5114A	IC-VIDEO SWITCH
IC801	1203-000165	78R12	IC-POSI.ADJUST REG.	
POWER	IC301	1204-000517	LA7845	IC-VERTICAL DEF.
	IC403	1202-000103	LM393	IC-VOLTAGE COMP.
	IC801S	AA13-00018A	STR-F6656	IC-HYBRID
	IC803S	AA13-00024A	TNY253P	IC-HYBRID
	QH04	0502-000442	2SC4636RB	TR-POWER
	Q403	0505-000156	IRF620	FET-SILICON
	Q404	0505-001116	BUZ73A	FET-SILICON
	Q405	0502-001175	2SC5446	TR-POWER
	Q801	AA13-20004H	SE135N-LF12	IC-HYBRID

Block	Des-Loc	Part-Number	IC Name	Description
F-BOX	IC01	1204-001598	VPC3230D-A0	IC-VIDEO PROCESS
	IC02	AA13-00095A	SDP01	IC-ASIC
	IC05	1204-001599	DDP3310B-F5	IC-VIDEO PROCESS
	IC03	1105-001273	416S1120	IC-DRAM
	IC04	1105-001273	416S1120	IC-DRAM
	PIC01	1204-001658	SDA9489X-B22	IC-PICTURE PROCESS
	PIC02	1203-001419	4931	IC-VOLTAGE REGULATOR
	IC15	1203-000515	7042	IC-VOL. DETECTOR
	IC11	1203-001419	4931	IC-VOLTAGE REGULATOR
	IC12	1203-001140	7039	IC-VOL. DETECTOR
	IC13	1203-001359	1086	IC-POSI.FIXED REG.
	IC14	1203-000188	7033P	IC-POSI.ADJUST REG.
CRT	IC501	1201-001131	TDA6111Q	IC-VIDEO AMP
	IC502	1201-001131	TDA6111Q	IC-VIDEO AMP
	IC503	1201-001131	TDA6111Q	IC-VIDEO AMP
	QF10	0502-000153	2SC2344-D	TR-POWER
	QF09	0502-000131	2SA1011-D	TR-POWER
	IC504	1201-000010	2030	IC-OP AMP
DOLBY	IC601	1204-001198	DPL3519A-A2	IC-DECODER
	IC602	1201-000541	062	IC-OP AMP
MICOM	IC901	AA13-30013H	SDA30C264	IC-MCU
	IC902	1102-001010	27C040	IC-EPROM
	IC903	1203-000515	7042	IC-VOL. DETECTOR
	ICT01	1204-001579	SDA5275-3P	IC-OSD PRPROCESSOR
	ICT02	1105-001315	4E170411	IC-DRAM

3. Specifications

Model		CS29A7HF9X CS34A7HF9X
Dimensions (mm)	Set	862 (W) x 515 (D) x 585 (H)
	Transmitter	54 (W) x 31.5 (D) x 220 (H)
Weight	Set	56.3 Kg
	Transmitter	153 g (including batteries)
Picture Tube		Hi Contrast Instant Reception Type
Tuning Ranges		VHF (CH 1 ~ 12)
		UHF (CH 21 ~ 69)
		CATV (CH S1 ~ S40)
Television System		PAL,SECAM,NTSC4.43, NTSC3.58, PAL60
Antenna Input		VHF, UHF: 75 ohm unbalanced type
Intermediate Frequency		Video: 38.9 MHz
		Sound: (B/G)334.4MHz, (I)32.9MHz, (D/K)32.4MHz
		Chrominance Subcarrier: 34.47 MHz
Power Supply	Set	AC 110V~230V, 50Hz, 60 Hz
	Transmitter	DC 1.5V (AAA Size) x 2
Power Consumption		170 W
Sound Output		15 W x 2
Adjustment System		Transmitter Adjustment: Infrared Rays Type
		UHF/VHF electronic tuner fine tuning: Electronic Type
		Electronic Function Adjustment

Specifications are subject to change.

MEMO

4. Alignment and Adjustments

4-1 Adjustments

4-1-1 General Alignment Instructions

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

Note :

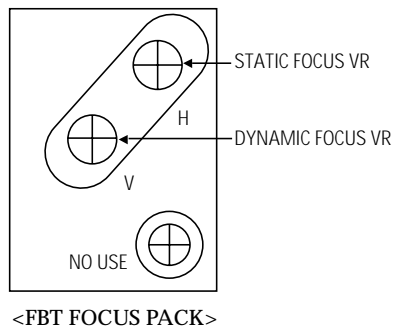
1. This '4. Alignment and Adjustments' applies to KS4A chassis applications.
2. AC Power Supply: 100~230 V
3. This service manual has been written on the basis of domestic remote-control model adopting KS4A chassis. Depending on sales location and product specifications, some of specifications herein may be changed.

4-1-2 Focus Adjustment

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

Dynamic Focus Adjustment

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



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



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

4-1-3 Screen Voltage Adjustment

1. Use a DC multi-meter to identify RK, GK, BK. And then adjust FBT Screen VR so that the highest voltage becomes 175 Vp-p.

4-1-4 White Balance Adjustment

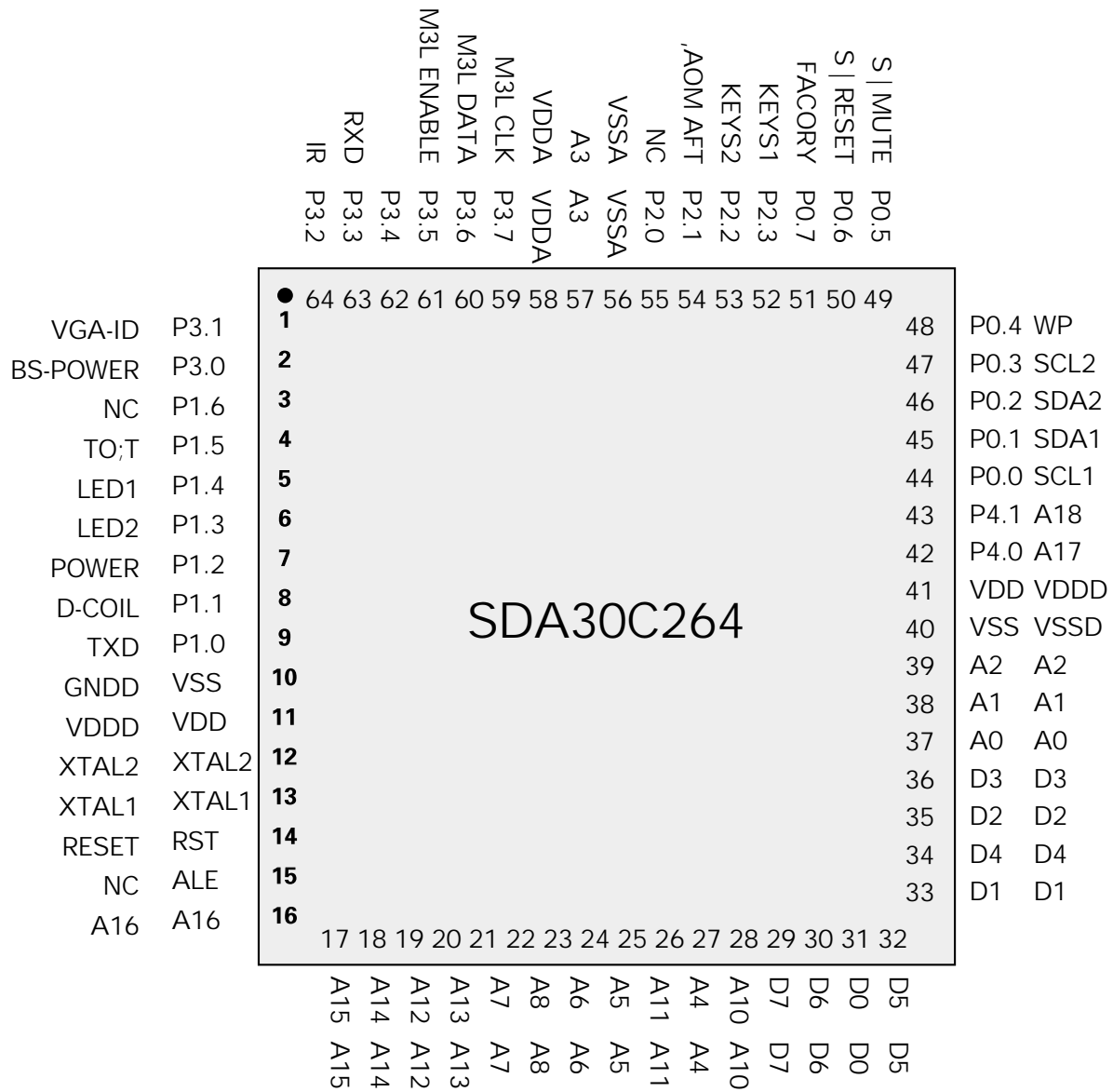
1. Select "Standard" from the menu.
2. Input an 100% White pattern.
3. In standby, press the remote-control keys in the following sequence:
Display → Menu, Mute, Power on the TV set.
4. Warm up the TV set at least for 30 minutes.
5. Input a stair signal.
6. Use the Volume +/- buttons on the remote-control to select R Drive, G Drive, B Drive, Sub Cont.
7. Adjust Low-Light while viewing the darker side of screen.
8. Use the Volume +/- buttons on the remote-control to select Rcutoff, Gcutoff, Bcutoff, Sub Brt.
9. Adjust High-Light while viewing the brighter side of screen.
10. If not proper, re-adjust White Balance.
11. Press the Memory button to exit.

4-1-5 Sub-Brightness Adjustment

1. In standby, press the remote-control keys in the following sequence:
Display → Menu → Mute → Power on the TV set.
2. Use the Channel Up/Down buttons to receive the sub bright adjustment signal.
3. Use the Volume +/- buttons to select SBT.
4. Press the Menu or Mute button on the remote control to adjust so that the seventh step on the right of screen cannot be seen.
5. Press the Memory button to exit.

4-2 MICOM PINNING

4-2-1 MICOM PINNING (SDA30C264)



4-2-1 MICOM FACTORY MODE OPTION BYTE

Ite	OSD	CIS	Asia/MiddleEast	Remark
m	CRT	4:3	4:3	-CPT Option(Wide/4:3):P.Size format, WSS Related Option
0	Language	Europe	Asia	-User Optional Language Group Setting(Europe/Asia)
1	Group			-Refer to "Language Group Table"
2	Lglanguage	Russia	By Destination	-Select the language of destination from Language Group * Note: Countermeasute to prevent IRAN from smuggling Once Arabic(Persian)has been selected,the user can't select Persian(Arabic)
3	ATM	ON	OFF	-ON: ATM, OFF: Auto search
4	Scart/Rca	Scart	Rca	-SCART: AV-Link,AV Setup Menu, Scart jack switching -RCA: RCA Jack switching, DVD
5	VGA	ON	ON	-Presence of VGA(ON/OFF)
6	Plug&Play	ON	ON	Application of Dolby Prologic(ON/OFF)
7	Dolby prg	ON	ON	-Application of Plug & Play (ON/OFF)
8	Pinp	CS	ON	-Application of Pinp(ON/OFF)
9	Cw/Cs	ON	CS	-CW/CS Tuner switching option
10	Lna	ON	ON	-Application of LNA(Pinp model) (ON/OFF)
11	Child Lock	ON	ON	-Application of Child Lock (ON/OFF)
12	HP jack ident	ON	ON	-ON:The main sound is cut off after identgiving the headphome jack -OFF:The headphome jack ident PIN of MICOM is used as an IIC STOP PIN. The main sound is not cut off
13	Top ttx	OFF	OFF	-Set only the countries requesting TOP patent so that TOP TTX can be available(Countries using TOP:Germany,Austria,Italy,Swiss)
14	High Deviation	ON	ON	-Solve the Sound Stop problem by tutning High Deviation On for the countries with SOUND over modulation
15	TTX group	Russia	By Destination	-Grouping the TTX Language by Region:Refer to a separate TABLE
16	Carrier mute	OFF	OFF	-For Italy Only (Option)

4-2-2 MICOM MODULE PIN ALIGNMENT

PIN NO	PAL MODULE	PIN NO	PAL MODULE
1	29MHz	19	SCL2
2	GND	20	IIC STOP
3	AV-LINK	21	SDA1
4	5VB	22	SCL1
5	MAIN AFT	23	WP
6	CVBS	24	S-MUTE
7		25	S-RESET
8	TILT	26	VGA-ID
9	OSD/TTX-F/B	27	STD 5V
10	OSD/TTX-R	28	GND
11	OSD/TTX-G	29	KEYS1
12	OSD/TTX-B	30	KEYS2
13		31	IR
14	GND	32	LED1
15	VS2	33	LED2
16	HS2	34	D-COIL
17	GND	35	POWER
18	SDA2		

4-2-3 MICOM PORT ASSIGNMENT

NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	EXPLANATION
1	P3.1	VGA-ID	IN	LOW	VGA SIGNAL IDENT
2	P3.0		OUT	LOW	
3	P1.6	NC	-	-	-
4	P1.5(PWM)	TILT	OUT	PWM	TILT CONTROL
5	P1.4	LED1	OUT	-	ON/OFF LED CONTROL
6	P1.3	LED2	OUT	-	TIMER LED CONRTOL
7	P1.2	POWER	OUT	LOW	PICTURE ON PORT
8	P1.1	D-COIL	OUT	LOW	D-COIL CONTROL
9	P1.0	TXD	OUT	-	AV LINK CONTROL
10	VSS	GNDD	-	GND	DIGITAL GND
11	VDD	VDDD	IN	STD 5V	DIGITAL VCC
12	XTAL2	XTAL2	OUT	-	12MHz XTAL
13	XTAL1	XTAL1	IN	-	MICOM TESET PORT
14	RST	RESET	IN	LOW	NOT USED
15	ALE	NC			EPROM CONTROL ADDRESS
16	A16	A16	IN/OUT	-	EPROM CONTROL ADDRESS
17	A15	A15	IN/OUT	-	EPROM CONTROL ADDRESS
18	A14	A14	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
19	A12	A12	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
20	A13	A13	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
21	A7	A7	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
22	A8	A8	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
23	A6	A6	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
24	A9	A9	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
25	A5	A5	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
26	A11	A11	IN/OUT	-	EPROM CONTROL DATA/ADDRESS

NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	EXPLANATION
27	A4	A4	IN/OUT	-	EPROM CONTROL DATA/ADDRESS
28	A10	A10	IN/OUT	-	"
29	D7	D7	IN/OUT	-	"
30	D6	D6	IN/OUT	-	"
31	D0	D0	IN/OUT	-	"
32	D5	D5	IN/OUT	-	"
33	D1	D1	IN/OUT	-	"
34	D4	D4	IN/OUT	-	"
35	D2	D2	IN/OUT	-	"
36	D3	D3	IN/OUT	-	"
37	A0	A0	IN/OUT	-	EPROM CONTROL ADDRESS
38	A1	A1	IN/OUT	-	EPROM CONTROL ADDRESS
39	A2	A2	IN/OUT	-	EPROM CONTROL ADDRESS
40	VSS	VSSD	-	GND	DIGITAL GND
41	VDD	VDDD	IN	STD 5V	DIGITAL VCC
42	A17/P4.0	A17	IN/OUT	-	EPROM CONTROL ADDRESS
43	A18/P4.1	A18	IN/OUT	-	EPROM CONTROL ADDRESS
44	P0.0	SCL1	IN/OUT	-	EPROM CONTROL BUS
45	P0.1	SDA1	IN/OUT	-	EPROM CONTROL BUS
46	P0.2	SDA2	IN/OUT	-	SLAVE IC CONTROL BUS
47	P0.3	SCL2	IN/OUT	-	SLAVE IC CONTROL BUS
48	P0.4	WP	OUT	HIGH	EEPROM WRITE PROTECTION
49	P0.5	S-MUTE	OUT	HIGH	MAIN SOUND AMP MUTE
50	P0.6	S-RESET	OUT	LOW	MSP RESET
51	P0.7	FACTORY	IN	LOW	BIS ADJ.MODE SELECTION
52	P2.3(A/D)	KEY1	IN	-	CH.UP,CH.DOWN,VOL.UP,VOL.DOWN,MENU

NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	EXPLANATION
53	P2.2(A/D)	KEY2	IN	-	MUTE, TV/VIDEO
54	P2.1(A/D)	MAIN AFT	IN		
55	P2.0(A/D)	P2.0(A/D)			
56	VSSA	VSSA	-	GND	ANALOG GND
57	A3	A3	IN/OUT	-	EPROM CONTROL ADDRESS
58	VDDA	VDDA	IN	STD 5V	ANALOG VCC
59	P3.7	M3L CLK	IN/OUT	-	SDA5275 MEGATEXT IC CONTROL BUS
60	P3.6	M3L DATA	IN/OUT	-	"
61	P3.5	M3L ENABLE	OUT	-	"
62	P3.4		IN	HIGH	
63	P3.3	RXD	IN		AV LINK
64	P3.2	IR	IN	-	REMOTE CONTROL SIGNAL INPUT

4-3 FACTORY MODE CONTROL

4-3-1 Factory Mode Data Control

1. Enter & Concel the Factory Mode

1) Usual Remote Control

Enter : PICTURE OFF -> DISPLAY KEY -> MENU KEY -> MUTE KEY

(Press each remote control key with in 3 seconds)

Cannel : POWER OFF -> ON

2) Factory Remote Control

Enter : DISPLAY KEY -> FACTORY KEY

(Press each remote control key with in 3 seconds)

Cannel : POWER OFF -> ON

Press the FACTORY key twice at intervals of at lease 1 second.

(Enter the AGING Mode once)

3) Set Value When Entering the Factory Mode

- Picture Mode & Sound Mode are set to the standard data

4) Adjustments

- CH. UP/DOWN Key : Use to select the item you want

- VOLUME UP/DOWN Key : Increases or decreases the value of data.

- MENU Key : Use to save the current set value in EEPROM and exit to the upper mode.

- Use the DIGIT Key to switch channels

- Use the TV/VIDEO Key th conver to the AV Mode

4-4 FACTORY MODE MENU

Service Mode
Video Adjustment
Y.C-Delay
Deflection normal
Deflection VGA
Option byte
Reset

Video Adjustment

00 PKRD	03	12 Sub Tint	04	24 Ymax	123
01 BRCT	00	13 V Peaking	07	25 TB_REL	204
02 R Drive	< 200 >	14 Svm Gain	32	26 BCL_TCUP	02
03 B Drive	200	15 Svm Delay	05		
04 G Drive	200	16 Svm Limit	85		
05 Sub Curoff	06	17 Ttx Cont	120		
06 Ibrm	180	18 Ttx brt	15		
07 R Cutoff	80	19 Pip Cont	00		
08 B Cutoff	80	20 Bcl Thrs	41		
09 G Cutoff	80	21 Bcl Tc	153		
10 Sub Brt.	10	22 Bcl Gain	15/25		
11 Sub Color	08	23 Bcl Mc	145		

Item	OS D	Range	29A7	REMARK
00	PKRD	0-7	3	DDP3310 R,1AEhex BIT(7:5) -USER PEAKING CONRTOL REDUCTION (The bigger the value is the larger the amount of REDUCTION)
01	BRCT	0-1	0	VPC3230 FP BLOCK R,52hex (BIT(7:0)), R,53hex(BIT(5:0)) Reproduce the levels under BLACK LEVEL (When the level=1,the levels under BLACK LEVEL are reproduced)
02	R DRIVE	0-255(X2)	200	WHITE DRIVE CONTROL - After all the SCREEN adjustments are complete, fix the value of G DRIVE and adjust HIGH LIGHT WHITE BALANCE.
03	B DRIVE	0-255(X2)	200	
04	G DRIVE	0-255(X2)	200	
05	Sub Cont	0-12	6	DDP3310 R,1B1hex Bit <5:0> (Use 12 steps out of 63 steps to add the value of sub cont to the contrast control of picture control)
06	Lbrm	0-255	180	DDP3310 R,168hex (Internal brightness for measurement) - Fixed Value by CRT
07	R Cutoff	0-255	80	CUTOFF DRIVE CONRTOL - After all the SCREEN adjustments are complete, fix the value of G DRIVE and adjust LOW LIGHT WHITE BALANCE.
08	B Cutoff	0-255	80	
09	G Cutoff	0-255	80	
10	Sub Brt.	0-20(X8)	6	DDP3310 R,167hex Bit<15:6>(Add the value of Sub Brightness to Brightness Control of Picture Control)
11	Sub Color	0-12	8	DDP3310 R,1B2hex Bit<15:9>(Use 12 steps out of 63 steps to add the value of sub color to the color control of picture control)
12	Sub Tint	0-12	4	VPC3230 FP Sub R,DC hex - NTSC only
13	V Peaking	0-12	7	VPC3230 FP Sub R,28hex Bit<11:8>(Vertical peaking control)
14	Svm Gain	0-63	32	DDP3310 R,1A7hex Bit<5:0>(VM gain control)
15	Svm Delay	0-15	5	DDP3310 R,19Bhex Bit<3:0>(VM gain control)
16	Svm Limit	0-255	85	DDP3310 R,19FBhex Bit<7:0>(VM limit value control)
17	Ttx Cont	0-255	120	Set TTX mode conrtast level
18	Ttx brt	-128-127	15	DDP3310 EXT BRIGHTNESS
19	Pip Cont	0-15	0	SDA9489X R,11hex Bit<7:4>(PIP contrast adjustment)
20	Bcl Thrs	0-255(X8)	41	DD3310 R,160hex Bit <15:4>(ABL thresh hold setting) - Set ABL Operation Point (Cuve Point)

Item	OSD	Range	29A7	REMARK
21	Bcl Tc	0-255(X2)	153	DDP3310 R,161hex Bit<8:0>(ABL reduction time constamt setting)
22	Bcl Gain	0-255(X2)	15/25	DDP3310 R,162hex Bit<14:6>(ABL curve setting) -Set the tilt between ABL Operation Point (Curve Point)and MAX BEAM
23	Bcl Mc	0-255(X2)	145	DDP3310 R,163hex Bit<14:6>(Minimum RGB gain limiter)
24	Ymax	0-255(X2)	123	Peak white drive limit
25	TB_REL	0-255(X2)	204	Peak white drive limit tilt point
26	BCL_TCUP	0-255	02	ABL Cancel Conrtast Increase Time

Y.C-Delay		
00	Pal-B/G	00
01	Pal-D/K/L	-3
02	Pal-I	◁-3▷
03	Secam-B/G	03
04	Secam-D/K,L	02
05	Ntsc	-1
06	Pal-av	01
07	Secam-av	03
08	Ntsc-av	01

Item	OSD	Range	29A7	REMARK	
00	Pal-B/G	-3~3	00	VPC3230 FP Sub R, 23hex Bit<11:6> control(FIX) -Set EEPROM MAP by system separately -Video: Identified at VPC3230 -Sound: Identified at MSP3410	
01	Pal-D/K/L		-3		
02	Pal-I		-3		
03	Secam-B/G		03		
04	Secam-D/K,L		02		
05	Ntsc		-1		
06	Pal-av		01		VPC3230 FP Sub R, 23hex Bit<11:6> control(FIX)
07	Secam-av		03		-Set EEPROM MAP by system separately -Video: Identified at VPC3230
08	Ntsc-av	01	-Sound: Not Identified		

Deflection Normal

00	P. (N) V-SIZE	◁20▷	13	P. (N) HOR-EHT	-24
01	P. (N) V-SFT	06	14	P. (N) VER-EHT	-48/90
02	P. (N) V-LIN	00	15	P. (N) EHTVTRS	56
03	P. (N) S-CORR	45	16	P. (N) EHTV2	44
04	P. (N) EW-WTH	-71	17	P. (N) EHTH2	95
05	P. (N) EW-PBI	43/25	18	P. (N) CRNU6	00
06	P. (N) H-SFT	24	19	P. (N) CRNL6	05
07	P. (N) EW-TPZ	00	20	P. (N) POFS2	-103
08	P. (N) BOW	00	21	P. (N) HSYNC DLY	93
09	P. (N) ANGLE	00	22	P. (N) PHP	28
10	P. (N) EW-UPCR	-12	23	P. (N) PVP	32
11	P. (N) EW-LOCR	00	24	P. (N) PHS	00
12	EHT TIME	07	25	P. PVS	00

Item	OSD	Range	Initial Value	Remark
00	P.(N)V-Size	-128~127(X4)	20	DDP3310 R,14Dhex:VERTICAL SIZE ADJUSTMENT
01	P.(N)V-Sft	-128~127	06	DDP3310 R,14Fhex:VERTICAL SHIFT ADJUSTMENT
02	P.(N)V-Lin	-128~127(X4)	00	DDP3310 R,150hex:VERTICAL LINEARITY ADJUSTMENT
03	P.(N)S-Corr	-128~127(X4)	45	DDP3310 R,151Dhex:VERTICAL S-CORRECTIONADJUSTMENT
04	P.(N)EW-Wth	-128~127	-71(200)	DDP3310 R,157hex:HORI.SIZE ADJUSTMENT
05	P.(N)EW-Pbl	-128~127	43(-128)	DDP3310 R,159hex:HORI.PRABOLA ADJUSTMENT
06	P.(N)H-Sft	-128~127	24	DDP3310 R,144hex:HORI. SHIFT ADJUSTMENT
07	P.(N)EW-Tpz	-128~127	00	DDP3310 R,158hex:TRAPEZOID DISTORTION FACTOR ADJUSTMENT
08	P.(N)Bow	-128~127	00	DDP3310 R,14Bhex:BOW ADJUSTMENT
09	P.(N)Angle	-128~127	00	DDP3310 R,14Ahex:PARALLELGAM DISTORTION FACTOR ADJUSTMENT
10	P.(N)EW-UpCr	-128~127	-12	DDP3310 R,15Ahex:UP CONER 1/3 ADJUSTMENT
11	P.(N)EW-LoCr	-128~127	00	DDP3310 R,15Bhex:LOW CONER 1/3 ADJUSTMENT
12	EHT Time	0~255(X2)	07	DDP3310 R,15Dhex EHT OPERATION TIME CONSTANT(FIX)
13	P.(N)Hor-EHT	-128~127(X4)	-24	EHT OPERATION AT OVER DDP3310 R,147hex EHTVTRS(FIX)
14	P.(N)Ver-EHT	-128~127(X4)	-48	EHT OPERATION AT OVER DDP3310 R,15Chex EHTVTRS(FIX)

Item	OSD	Range	Initial Value	Remark
15	P.(N)EHIVTRS	-128~127(X8)	56	USE THE STEEP CURVE POINT OF HIGH VOLTAGE TO SELECT BOTH EHT AND EHT2 OPERATIONS(FIX)
16	P.(N)EHTV2	-128~127(X4)	44	EHT OPERATION AT LOW BEAM (less than EHTVTRS)
17	P.(N)EHTH2	-128~127(X4)	95	
18	P.(N)CRNL6	-128~127	00	UP CONER 1/6 ADJUSTEMENT(FIX)
19	P.(N)CRNL6	-128~127	05	LOW CONER 1/6 ADJUSTEMENT(FIX)
20	P.(N)POFS2	-128~127	-103	DDP3310 EXT.RGB(PIP,VGA,TTX/OSD)CLAMPING ADJUSTMENT(FIX)
21	P.(N)HSYNC DLY	0~255	93	SDP01 HORI. SYNC DELAY ADJUSTMENT -EXT.RGB(PIP,VGA,TTX/OSD)CLAMPING ADJUSTMENT(FIX)
22	P.(N)PHP	0~255	28	PIP POSITION ADJUSTMENT
23	P.(N)PVP	0~255	32	
24	P.(N)PHS	0~15	00	PICTURE POSITION INSIDE PIP ADJUSTMENT(FIX)
25	P.(N)PVS	0~15	00	

Deflection VGA

00	V-SIZE	◁ 20 ▷	13	HOR-EHT	-24
01	V-SFT	06	14	VER-EHT	-48
02	V-LIN	00	15	EHTVTRS	255
03	S-CORR	45	16	EHTV2	00
04	EW-WTH	-71	17	EHTH2	00
05	EW-PBI	43	18	CRNU6	05
06	H-SFT	24	19	CRNL6	04
07	EW-TPZ	00	20	POFS2	24
08	BOW	00	21	HSYNC DLY	93
09	ANGLE	00	22	PHP	32
10	EW-UPCR	-12	23	PVP	32
11	EW-LOCR	00			
12	EHT TIME	07			

Item	OSD	Range	Initial Value	Remark
00	V-SIZE	-128~127(4X)	20	DDP3310 R,14Dhex
01	V-SFT	-128~127	06	DDP3310 R,14Fhex
02	V-LIN	-128~127(4X)	00	DDP3310 R,150hex
03	S-CORR	-128~127(4X)	00	DDP3310 R,151hex
04	EW-WTH	-128~127	-71(200)	DDP3310 R,157hex
05	EW-PBI	-128~127	43(-128)	DDP3310 R,159hex
06	H-SFT	-128~127	24	DDP3310 R,144hex
07	EW-TPZ	-128~127	00	DDP3310 R,158hex
08	BOW	-128~127	00	DDP3310 R,14Bhex
09	ANGLE	-128~127	00	DDP3310 R,14Ahex
10	EW-UPCR	-128~127	-12	DDP3310 R,15Ahex
11	EW-LOCR	-128~127	00	DDP3310 R,15Bhex
12	EHT TIME	0~255(X2)	07	DDP3310 R,15Dhex
13	HOR-EHT	-128~127(4X)	-24	DDP3310 R,147hex
14	VER-EHT	-128~127(4X)	-48	DDP3310 R,15Chex
15	EHTVTRS	-128~127(8X)	255	
16	EHTV2	-128~127(4X)	00	
17	EHTH2	-128~127(4X)	00	
18	CRNU6	-128~127	05	
19	CRNL6	-128~127	04	
20	POFS2	-128~127	24	
21	HSYNCDLY	0~255	93	
22	PHP	0~255	32	
23	PVP	0~255	32	

4-5 3 Speed, Aging mode & Reset mode

4-5-1 3-Speed

1. 3-Speed

- 1) Speed up Analog Control three times and Time Speed sixty times to let line productivity be improved Analog Control.
- 2) Enter
 - Display + 3Speed Key
- 3) Cancel
 - The 3-Speed mode is cancelled in Master Power Off
 - Press the 3Speed Key
- 4) OSD : The message "3-SPEED" appears on the center of screen
- 5) No Signal : No AUTO OFF

2. Aging Mode

- 1) Enter : DISPLAY KEY -> FACTORY KEY (FACTORY MODE)
 - > FACTORY KEY (AGING MODE)
 - When the AGING mode is entered, the OSD's are displayed at 100% SIZE WHITE.
 - Mute SOUND
- 2) Cancel
 - FACTORY remote control -> Press the FACTORY Key
 - LOCAL KEY -> Use the Key MATRIX (Panel Key)
 - The AGING mode remains even in MASTER S/W OFF -> ON
 - Cancel the AGING mode only in the above two cases.

3. Factory Reset

- 1) Run "Reset" on the Factory Menu.
- 2) Initialize the other user control data except the items that are adjusted in the Factory Mode.
- 3) Power Off in standby mode.

4-5-2 Bus Stop Mode & Remote Control Adjustment

1. Bus Stop Mode (Use a Micom Stop Pin)

- 1) Enter the Bus Stop Mode within 200ms when 12c Stop Port is acknowledged "LOW".
- 2) Settings when entering.
 - Set the screen mode "STANDARD".
 - Set Bus Line Free.
 - Cancel the Bus Stop Mode when 12c Stop Port is acknowledged "High".
- 3) Setting when cancelling
 - Re-load data from EEPROM and then re-set the appropriate IC.

2. Remote Control Adjustment Mode (Factory Auto Adjustment)

- 1) Enter the Remote Control Adjustment Mode when the remote control auto adjustment code is input.
- 2) Settings when entering.
 - Set the screen mode "STANDARD"
 - Set Bus Line Free.
- 3) Cancel the Remote Control Adjustment Mode when the usual key code is input.
- 4) When the code is input, write data in both E2PRM and the appropriate IC within 20ms.
 - Interval between Code Inputs : 30ms

4-6 INITIALIZATION DATA DURING RESET

Item	Intialization Data	Item	Initialization Data
Volume	10step	TV Power	Stand by
Balance	Center	Blue Screen	On
Main,Pip Channel	Custom	TINT	Center
Picture Standard	(Set Value:Standard)	Still Picture	Cancel
Sound Standard	Nautral	AV Setup	Ext2,Ext3:RF
Add/erase	All Channel erased	Time	-- : --
Channel Sort	Erased	On/Off Time	-- : --
LNA	All Channel Off	H/P Volume	10 Step
Color System	Auto	H/P Bal.,Tbl,Bass	Center
PIP Position	Right under	Programe naming	All Channel Erased(*)
Fine Tune	Erased	Audio out	Volume out
Language	Option byte Selection	Int.mute	Off
Pip,Main Source	RF	Center,Rear Volume	Center
Digital N/R	Off	Zoom Lift	Center
TILT	Center	PC Screen Shift	Center
P-Size	Wide:auto,4:3:Normal	Country	Austria
PIP-Size	Big		
TTX Contrast	Factory value		
Child lock	All Channel off		
Plug & Play	Option byte Selection		
Surround Mode	Off		
Pro Logic	Normal		

4-7 CHASSIS FUNTION

	FUNTION	PAL
P I C T U R E	LINE FLICKERLESS	YES
	LARGE AREA FLICKERLESS	YES
	MOTION DETECTOR	YES
	MAIN STILL PICTURE	YES
	ZOOM FUNCTION	NORMAL -> 16:9 -> ZOOM
	(4:3,WIDE CRT OPTION)	AUTO WIDE->PANORAMA->4:3->16:9->ZOOM1->ZOOM2
	ZOOM LIFT	YES
	DIGITAL N/R	YES
	COMB FILTER	4H
	CTI	DIGITAL CTI
	SCAN MODE	NATURAL SCAN -> DIGITAL SCAN -> PORGRESSIVE SCAN
	P-STD	CUSTOM->STANDARD->SPORTS->MILD->NATURAL
	COLOR TONE	NORMAL -> WARM1- > WARM2 -> COOL1 -> COOL2
	DYNAMIC-FOCUS	YES
	VM	YES
	TILT CONTROL	YES
	VGA	YES
DVD	RCA JACK MODEL ONLY -> YUV MODE	
PIP	MULTI PIP	YES
	LNA ON/OFF	YES
	SWAP,ROTATE,SIZE,SCAN	YES

	FUNTION	PAL
P U N T I O N	ATM	ATM(EU)
	PLUG & PLAY	YES
	AV LINK	SCART JACK MODEL ONLY (SCART1)
	TTX	MEGA TEXT
	OSD TYPE	OSG
	SLEEP TIMER	YES
	ON/OFF TIMER	YES
	CHILD LOCK	YES
	PROGRAMMABLE CH.	100 CH. MENORY
	TUNING SYSTEM	PROGRAMMABLE F/S
	SORT & NAME	YES
	INFORMATION	YES(NAME,SOUND MODE,CHILD LOCK)
	ADD/ERASE	YES(CHANNEL SKIP)
S O U N D	DOLBY PROLOGIC	YES
	A2 STEREO	YES
	EQUALIZER	YES
	NICAM STEREO	YES
	OUTPUT (MPO)	MAIN:12+12W, SUR:12+12W, CENTER:12W
	S-STD	CUSTOM->STANDARD->MUSIC->MOVIE->SPEECH
	HEADPHONE VOLUME CONTROL	YES
EXT JACK	FRONT	1 S-VHS,1RCA INPUT,1HEADPHONE,1 VGA
	REAR	SCART JACK MODEL: 1RF,3SCART,DOLBY JACK RCA JACK MODEL:1RF,1 S-VHS,3RCA IN, 1DVD IN, 1 MONITOR OUT, DOLBY JACK

4-8 PCF9591 PORT ASSIGNMENT (JACK IDENT)

PIN NO	FUN	ASSIGN	SCART JACK OPTION IDENT VOLTAGE(V)			RCA JACK MODEL IDENT VOLTAGE(V)			
			0~1.5	1.6~3.4	3.5~5.0	0~2.2	2.3~2.7	2.8~4.0	4.1~5.0
1	AIN0	SC1-ID(AV1/DVD-ID)	NOT CON.	WIDE MODE	4:3 MODE	NOT CON.	DVD	AV1	ALL CON
2	AIN1	SC2-ID(AV2/DVD-ID)	NOT CON.	WIDE MODE	4:3 MODE	AV2 SVHS		NOT CON.	AV2
3	AIN2	SC3-ID(AV3)	NOT CON.	WIDE MODE	4:3 MODE	NOT CONNECTION		AV3	
4	AIN3	FAV-ID/FS-ID				FRONT-SVHS		NOT CON.	F-VIDEO
5	A0	GND	IC ADDRESS SLECTION						
6	A1	GND							
7	A2	GND							
8	VSS	GND	DIGITAL GND						
9	SDA	SDA2	IIC CONTROL BUS						
10	SCL	SCL2							
11	OSC	OSC	-						
12	EXT	GND	EXT/INT OSC CONTROL						
13	AGND	AGND	ANALOG GND						
14	VREF	VREF	-						
15	AOUT	D/A OUT	NOT USED						
16	VDD	VDD	5V						

4-9 LOCAL KEY ASSIGNMENT

1. Local(Pannel) Key List

- LOCAL MENU : Main Menu Control
- CH + : Channel Up & Menu Control
- CH - : Channel Down & Menu Control
- VOLUME + : Volume Up & Menu Control
- VOLUME - : Volume Down & Menu Control
- TV/VIDEO : TV/VIDEO MODE CHANGE

2. Local Key (8 Bit ADC)

KEY1	KEY NAME	KEY NAME	CH. DOWN	CH. UP	VOL.DOWN	NOT OPER
	VOLTAGE	VOLTAGE	0V~0.62V	0.93V~1.55V	1.86V~2.5V	3.74V~5.00V
KEY2	KEY NAME	KEY NAME		LOCAL MENU	TV VIDEO	NOT OPER
	VOLTAGE	VOLTAGE	0V~0.62V	0.93V~1.55	1.86V~2.5V	3.74V~5.00V

* Language Group

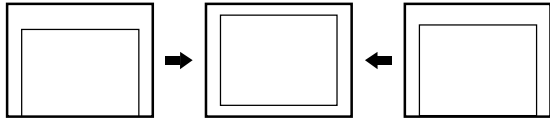
NO	Europe	Asia	Remark
1	English	English	
2	Bulgarian	Arabic	
3	Croatian	French	
4	Czech	Indonesian	
5	Dutch	Malay	
6	French	Persian	
7	German	Urud(Pakistani)	
8	Greek		
9	Hungarian		
10	Italian		
11	Polish		
12	Portuguese		
13	Rumanian		
14	Russian		
15	Spanish		
16	Swedish		
17	Turkish		
18	Yogo		

* TTX Language Group

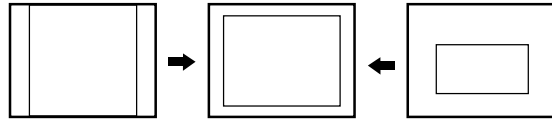
NO	X22 line			Factory mode TTX Group					
	C14	C13	C13	W-Europe	E-Europe	Russian	Arab	Ireland	Hebrew
0	0	0	0	English	Polish	Polish	English/ Arabic	English	English
1	0	0	1	French	Russian	Russian	French/ Arabic	French	French
2	0	1	0	Swedish/ Finnish/ Danish	Hungarian	Estonian	Thai	Swedish/ Finnish/ Danish	Swedish/ Finnish/ Danish
3	0	1	1	Turkish	Czech/ Slovak	Czech/ Slovak	Turkish	Turkish	Turkish
4	1	0	0	German/ Dutch/ Flemish	German/ Dutch/ Flemish	German/ Dutch/ Flemish	German/ Dutch/ Flemish	German/ Dutch/ Flemish	German/ Dutch/ Flemish
5	1	0	1	Spanish/ Portuguese	Slovenian/ Serbo	Ukranian	Spanish/ Portuguese	Icelandic	Hebrew/ Arabic
6	1	1	0	Italian	Lithuanian	Lettish	Italian	Italian	Italian
7	1	1	1	Greek	Rumanian	Rumanian	Arabic	Greek	Rumanian

4-10 Screen Change (I2C Bus Geometric Adjustment)

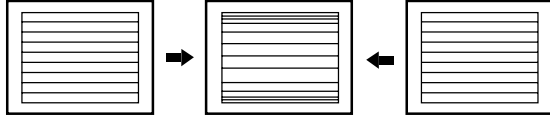
1 V - SHIFT



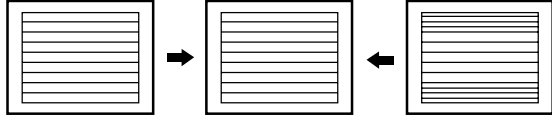
6 V - SIZE



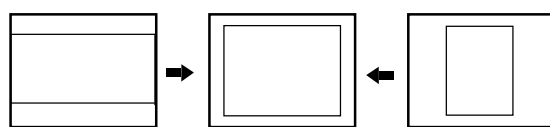
2 V - LIN



7 S-CORR



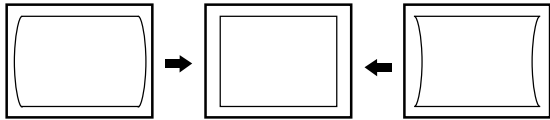
3 HEW - WITH



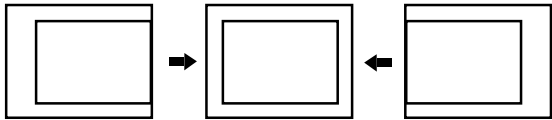
8 H TRAPIZIUM (EW)



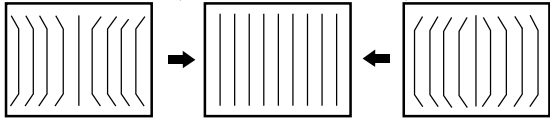
4 H PARABOLA (EW)



9 H SHIFT



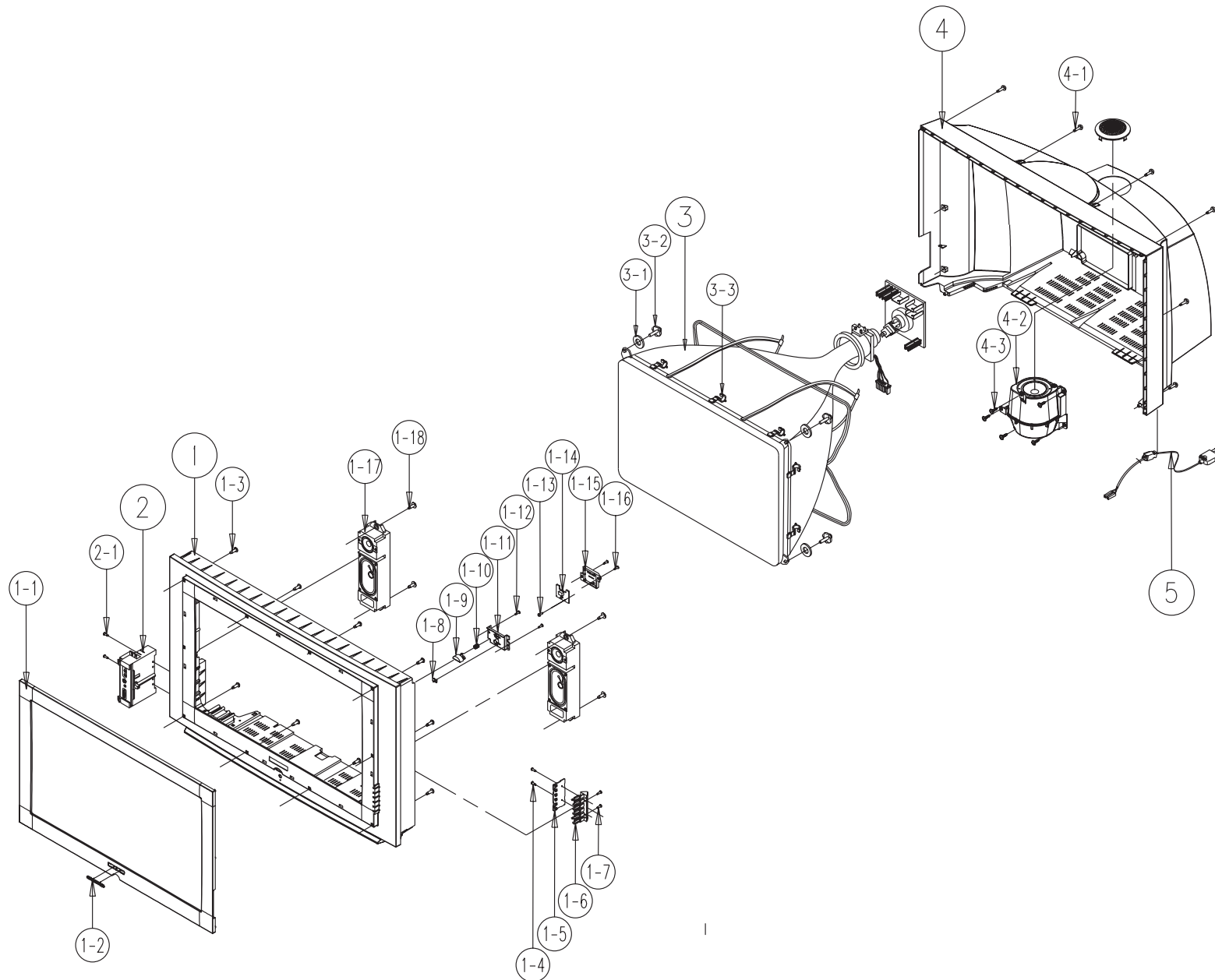
5 H CORNER (EW-V[CR, EW-;PCR)



MEMO

5. Exploded View & Parts List

5-1 CS29Z4HF9X/BWT(CS34Z4HF9X/BWT)



No	Code No	Description;Specification	Q'ty	Remark
1	AA91-00748E	ASSY CABINET FRONT.;CS-29Z4HF;IVN1112+WH	1	
1*	AA64-01973B	CABINET-FRONT;29Z4 DO,HIPS,HB,G4309,GDM-	1	
1-1	AA64-01979G	CABINET-MASK;CS29Z4HF,HIPS,HB,G7666,IVN1	1	
1-2	AA64-01062E	BADGE-BRAND;CT-29Z4HR,AL,T1.6,W25.0,L65.	1	
1-3	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	10	MAS+CF
1-4	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	2	PCB+KC
1-5	AA41-00522A	PCB-CONTROL;CS32Z4,FR-1,1L,A,1.6T,245X24	1	PCB
1-6	AA64-01201D	KNOB CONTROL;29Z4,ABS,HB,WHITE,GDM-3130	1	
1-7	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	2	KC+CF
1-8	AA64-01203B	INDICATOR LED;32Z5,ACRYL,-,CLR,-,-,-	1	
1-9	AA64-01200H	KNOB POWER;32Z5,ABS,HB,WHT,IVN1112+WH019	1	
1-10	AA61-60003J	SPRING-CS;-SUS304,-,OD6,N7,OD6,-,-,-	1	
1-11	AA64-01202B	WINDOW REMOCON;32Z5,PC,-,-,-,VO,VIOLET,-	1	
1-12	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	2	WIN+CF
1-13	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	2	HP+PCB
1-14	AA41-00521A	PCB-MASTER S/W;CS32Z4,FR-1,1L,A,1.6T,245	1	PCB
1-15	AA61-00450B	HOLDER-POWER;32Z5,ABS,-,-,-,GRAY,HB	1	
1-16	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	2	HP+CF
1-17	AA91-00738A	ASSY HOLDER SPK;-PP,80HM,10W,-,ZEUS-2 F	2	
1-18	6006-001096	SCREW-ASS'Y TAPT;WP,BH,+,M4.0,L12,BLK,SW	4	SPK+CF
2	AA95-01355A	ASSY-PCB-A/V SIDE.;WS36Z48D,KS4A,PAL	1	
2-1	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR	2	DR+CF
3	AA94-50022A	ASSY-CRT;A68QCP891X004,+380MG,29',ITC,CT	1	
3-1	AA63-60004Y	SPACER-GUM,CRT;ALL MODEL,NTR RUBBER,-,-,	4	
3-2	AA60-10050V	SCREW-ASSY;-SWRCH18A,M6,L30,HH,+,WC,-,Z	4	CRT+CF
3-3	AA61-10054A	BRACKET-CRATER;6277,STS304,TO.5,-,-,-	2	
4	AA64-01976B	CABINET BACK;29Z4,HIPS,FV2,GR503	1	
4-1	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+,2S,	8	CB+CF
4-2	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)	5	WOOFER
4-3	AA61-00731B	HOLDER-PORT,WOOFER;29Z4,HIPS,G4309,FV2	1	
5	AA96-20130H	ASSY POWER CORD;-CP2/NO(4.0R),H/S 500MM	1	

6. Electrical Parts List

6-1 CS29Z4HF9X/BWT

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
ASSY PCB MAIN(OPT)									
1	*	AA94-03152D	ASSY PCB MAIN(OPT);CS29Z4HF9X/BWT,KS4A,C		...	CC26	2203-000761	C-CERAMIC,CHIP;330nF;10%,16V,X7R,TP,2012	
..2	C-BLOC	AA26-00069A	TRANS FBT;FUJ-29C002C(S),DREAM3,4,-,-,-		...	CC27	2203-000761	C-CERAMIC,CHIP;330nF;10%,16V,X7R,TP,2012	
..2	C/W	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,-,DATL-60		...	CC28	2401-002144	C-AL;47uF;20%,16V,GP,TP;5x11,5	
..2	CJ701A	3722-000195	JACK-SCART;42P,-,SN,BLK,NO		...	CC29	2203-000575	C-CERAMIC,CHIP;220nF;10%,25V,X7R,TP,2012	
..2	CJ704A	3722-000183	JACK-SCART;21P;4mm,SN,BLK,NO		...	CC30	2203-000142	C-CERAMIC,CHIP;1.5nF;10%,50V,X7R,TP,2012	
..2	CN601A	AA39-00191A	LEAD CONNECTOR ASSY; 4P;35155-0400,35155		...	CC31	2203-000839	C-CERAMIC,CHIP;0.39nF;5%,50V,NP0,TP,2012	
..2	CN601B	AA39-00101C	LEAD CONNECTOR ASSY; 4P;35155-0400,35184		...	CC32	2401-002042	C-AL;220uF;20%,10V,GP,TP;6.3x11,5	
..2	CN803A	3711-003241	CONNECTOR-HEADER;BOX,14P;1R,2,5mm,STRAIG		...	CC33	2203-000979	C-CERAMIC,CHIP;47nF;10%,50V,X7R,TP,2012	
..2	CN804A	3711-003241	CONNECTOR-HEADER;BOX,14P;1R,2,5mm,STRAIG		...	CC35	2203-000761	C-CERAMIC,CHIP;330nF;10%,16V,X7R,TP,2012	
..2	CNC904	AA39-00242A	LEAD CONNECTOR ASSY; 5P;67096-005,35184-		...	CC36	2203-000761	C-CERAMIC,CHIP;330nF;10%,16V,X7R,TP,2012	
..2	IC101	1001-001038	IC-ANALOG SWITCH;SAA1300,-,SOT-142,9P,-,		...	CC37	2203-000683	C-CERAMIC,CHIP;0.027nF;5%,50V,NP0,TP,2012	
..2	IC603	AA96-50367A	ASSY-H/S;-,-,AA62-30181D,TDA7265,-	S.N.A	...	CC38	2203-000683	C-CERAMIC,CHIP;0.027nF;5%,50V,NP0,TP,2012	
...		0205-000129	GREASE-SILICON,SC102,JAPAN		...	CC39	2203-000683	C-CERAMIC,CHIP;0.027nF;5%,50V,NP0,TP,2012	
...		1201-001026	IC-POWER AMP;7265,ZIP11P;19.6MIL,DUAL,1		...	CC40	2203-000683	C-CERAMIC,CHIP;0.027nF;5%,50V,NP0,TP,2012	
...		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	...	CC41	2203-001002	C-CERAMIC,CHIP;0.047nF;5%,50V,NP0,TP,2012	
...		AA62-30181D	HEAT-SINK,ES;-AL6063 EXTR.,2,WHT,70MM,-	S.N.A	...	CC42	2401-002144	C-AL;47uF;20%,16V,GP,TP;5x11,5	
△	IC804	AA96-50382B	ASSY-H/S;-,-,AA62-30180C,SI-3050,-	S.N.A	...	CC43	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP	
...		1203-000203	IC-POS. ADJUST REG.;3050,TO-220,5P,-,PLA		...	CC44	2401-002144	C-AL;47uF;20%,16V,GP,TP;5x11,5	
...		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	...	CC45	2401-000486	C-AL;10uF;20%,50V,GP,TP;6.3x7mm,5	
△	IC805	AA62-30180C	HEAT-SINK,ES;-A6063 EXTR.,2,WHT,50MM,-	S.N.A	...	CC47	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP	
..2	ICD603	AA96-50367A	ASSY-H/S;-,-,AA62-30181D,TDA7265,-	S.N.A	...	CC48	2203-005384	C-CERAMIC,CHIP;4700nF;+80-20%,10V,Y5V,TP	
..2	IF-CAB	AA39-30007A	IF-CABLE;-T,100mm,1365#26		...	CC49	2203-005384	C-CERAMIC,CHIP;4700nF;+80-20%,10V,Y5V,TP	
..2	TU01	AA40-00083A	TUNER;TCL S3101PD16A(S),PAL B/G,D/K,I,M,1		...	CC50	2203-005384	C-CERAMIC,CHIP;4700nF;+80-20%,10V,Y5V,TP	
..2	TUP01	AA40-00085A	TUNER;TCP S3000PC16A(S),PAL B/G,D/K,I,M,1		...	CC51	2401-001840	C-AL;100uF;20%,16V,GP,TP;6.3x11,5	
..2	VM-CON	AA39-20015B	LEAD CONNECTOR ASSY; 3(2)P;67096-003,200		...	CD01	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
..2	WIRED01	AA39-20010C	LEAD CONNECTOR ASSY; 1P;YFH800-01,S,600		...	CD02	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
..2		AA95-01172A	ASSY-PCB,FEATURE BOX;29,KS4A,PAL		...	CF01	2901-001120	FILTER-EMI SMD;25V,100mA,-,-,3.2x1.6x1,T	
..3	CN01	3711-003543	CONNECTOR-HEADER;NOWALL,16P;1R,2,54mm,AN		...	CL05	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
..3	CN02	3711-003543	CONNECTOR-HEADER;NOWALL,16P;1R,2,54mm,AN		...	CL06	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP,-	
..3	CN03	3711-001283	CONNECTOR-HEADER;NOWALL,14P;1R,2,5mm,ANG		...	CQ01	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
..3	CN04	3711-001283	CONNECTOR-HEADER;NOWALL,14P;1R,2,5mm,ANG		...	CQ02	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
..3	CX01	2801-004019	CRYSTAL-UNIT;20.25MHz,30ppm,28-AAM,13pF		...	CQ03	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
..3	DX01	2801-003811	CRYSTAL-UNIT;24.576MHz,20ppm,28-AAM,30pF		...	CQ04	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
..3	PX01	2801-004019	CRYSTAL-UNIT;20.25MHz,30ppm,28-AAM,13pF		...	CQ05	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
..3		0202-001167	SOLDER-CREAM;RX3603-2330HO,S45A,PASTE,SN	S.N.A	...	CR01	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..3		0202-000187	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb		...	CR02	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..3		AA63-00100A	SHIELD-CASE;FCC,SPT,0.5,-,-,-,SCAN-MODU	S.N.A	...	CR03	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..3		AA99-20094U	ASSY-PCB SUB,AUTO; AA95-01172A V	S.N.A	...	CR04	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..4	CC01	2203-000609	C-CERAMIC,CHIP;22nF;10%,50V,X7R,TP,2012		...	CR05	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..4	CC02	2203-000609	C-CERAMIC,CHIP;22nF;10%,50V,X7R,TP,2012		...	CR06	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..4	CC03	2203-000609	C-CERAMIC,CHIP;22nF;10%,50V,X7R,TP,2012		...	CR07	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..4	CC04	2203-000575	C-CERAMIC,CHIP;220nF;10%,25V,X7R,TP,2012		...	CR08	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
..4	CC05	2203-000142	C-CERAMIC,CHIP;1.5nF;10%,50V,X7R,TP,2012		...	CR09	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC06	2203-000839	C-CERAMIC,CHIP;0.39nF;5%,50V,NP0,TP,2012		...	CR10	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC07	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP		...	CR19	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC08	2203-000979	C-CERAMIC,CHIP;47nF;10%,50V,X7R,TP,2012		...	CR20	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC09	2203-000142	C-CERAMIC,CHIP;1.5nF;10%,50V,X7R,TP,2012		...	CR22	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC10	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP		...	CR26	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC11	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP		...	CR27	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC12	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP		...	CR28	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
..4	CC13	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP		...	CR29	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
..4	CC14	2203-000181	C-CERAMIC,CHIP;100nF;+80-20%,25V,Y5V,TP		...	CR30	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
..4	CC15	2203-001646	C-CERAMIC,CHIP;3pF;0.5pF;50V,NP0,TP,2012		...	CR31	2007-000642	R-CHIP;2700HM,5%,1/10W,DA,TP,2012	
..4	CC16	2203-001646	C-CERAMIC,CHIP;3pF;0.5pF;50V,NP0,TP,2012		...	CR32	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC17	2401-002042	C-AL;220uF;20%,10V,GP,TP;6.3x11,5		...	CR33	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC18	2203-000979	C-CERAMIC,CHIP;47nF;10%,50V,X7R,TP,2012		...	CR34	2007-000029	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC19	2401-002144	C-AL;47uF;20%,16V,GP,TP;5x11,5		...	CR35	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
..4	CC20	2203-000575	C-CERAMIC,CHIP;220nF;10%,25V,X7R,TP,2012		...	CR37	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC21	2203-000142	C-CERAMIC,CHIP;1.5nF;10%,50V,X7R,TP,2012		...	CR38	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC22	2203-000839	C-CERAMIC,CHIP;0.39nF;5%,50V,NP0,TP,2012		...	CR40	2003-002044	R-METAL OXIDE(S);100ohm,5%,1W,AF,TP,25x	
..4	CC23	2203-000444	C-CERAMIC,CHIP;1nF;10%,50V,X7R,TP,2012,-		...	CR41	2007-000029	R-CHIP;100HM,5%,1/10W,DA,TP,2012	
..4	CC24	2203-000761	C-CERAMIC,CHIP;330nF;10%,16V,X7R,TP,2012		...	CR45	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
..4	CC25	2203-000761	C-CERAMIC,CHIP;330nF;10%,16V,X7R,TP,2012		...	CR46	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
..4					...	CR47	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
..4					...	CR48	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
..4					...	CR49	2007-000931	R-CHIP;4700HM,5%,1/10W,DA,TP,2012	
..4					...	CR50	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	CR51	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP2012		....4	DR16	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	CR52	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP2012		....4	DR17	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	CR53	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP2012		....4	DR18	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP2012	
....4	CR54	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP2012		....4	DR19	2007-000947	R-CHIP;470HM,5%,1/10W,DA,TP2012	
....4	CR55	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP2012		....4	DR20	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP2012	
....4	DC01	2401-003102	C-AL;100uF,20%,10V,GP,TP5x11,5		....4	DR22	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP2012	
....4	DC02	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR23	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP2012	
....4	DC03	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR24	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP2012	
....4	DC04	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR25	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP2012	
....4	DC05	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR26	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP2012	
....4	DC06	2203-000142	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP2012		....4	DR27	2007-001224	R-CHIP;9.1KOHM,5%,1/10W,DA,TP2012	
....4	DC07	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP2012		....4	DR28	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP2012	
....4	DC08	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR29	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP2012	
....4	DC09	2203-000555	C-CERAMIC,CHIP;0.02nF,5%,50V,NP0,TP2012		....4	DR30	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP2012	
....4	DC10	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR31	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP2012	
....4	DC11	2203-000555	C-CERAMIC,CHIP;0.02nF,5%,50V,NP0,TP2012		....4	DR32	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP2012	
....4	DC12	2203-000555	C-CERAMIC,CHIP;0.02nF,5%,50V,NP0,TP2012		....4	DR33	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP2012	
....4	DC13	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR34	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	DC14	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR35	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP2012	
....4	DC15	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR36	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP2012	
....4	DC16	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5		....4	DR37	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP2012	
....4	DC17	2401-003102	C-AL;100uF,20%,10V,GP,TP5x11,5		....4	DR38	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP2012	
....4	DC18	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR40	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	DC19	2401-003102	C-AL;100uF,20%,10V,GP,TP5x11,5		....4	DR41	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	DC20	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	DR42	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	DC21	2203-001088	C-CERAMIC,CHIP;0.005nF,0.25pF,50V,NP0,TP		....4	DR43	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	DC22	2203-001088	C-CERAMIC,CHIP;0.005nF,0.25pF,50V,NP0,TP		....4	DR44	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP2012	
....4	DC23	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP2012		....4	DR46	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP2012	
....4	DC24	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP2012		....4	DR48	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP2012	
....4	DC25	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP2012,-		....4	IC01	1204-001598	IC-VIDEO PROCESS;VPC3230D-B2,QFP,80P,-,P	
....4	DC26	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP2012,-		....4	IC02	AA13-00095A	IC ASIC,-,SDP01,QFP128PPROSCAN	
....4	DC27	2401-000603	C-AL;1uF,20%,50V,GP,TP5x11,5		....4	IC03	1105-001273	IC-DRAM;416S1120,512Kx16x2Bit,TSOP50P4	
....4	DC28	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	IC04	1105-001273	IC-DRAM;416S1120,512Kx16x2Bit,TSOP50P4	
....4	DC29	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP2012,-		....4	IC05	1002-001045	IC-D/A CONVERTER;9280,8BIT,PLCC,68P,-,-	
....4	DC30	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP2012,-		....4	IC06	1204-001372	IC-HOR./VER.PROCESSO;SDA9361,QFP,44P,-,P	
....4	DC31	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP2012,-		....4	IC07	1204-001550	IC-VIDEO PROCESS;CXA2101AQ,QFP,80P,-,PLA	
....4	DC32	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	IC11	1203-001419	IC-VOLTAGE REGULATOR;4931,TO-252,3P,6.6x	
....4	DC33	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	IC12	1203-001140	IC-VOL. DETECTOR;7039,TO-92P,3P,-,PLASTI	
....4	DC34	2203-001002	C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP201		....4	IC13	1203-001359	IC-POS.FIXED REG.;1086,TO-263,3P,15.8MM	
....4	DC35	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	IC14	1202-000001	IC-VOLTAGE COMP.;7533,TO-92,3P,-,SINGLE	
....4	DC36	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP2012		....4	PC01	2203-000260	C-CERAMIC,CHIP;10nF,+80-20%,25V,Y5V,TP	
....4	DC37	2203-000142	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP2012		....4	PC04	2203-000408	C-CERAMIC,CHIP;0.18nF,5%,50V,NP0,TP2012	
....4	DC38	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP2012		....4	PC05	2203-001223	C-CERAMIC,CHIP;0.82nF,10%,50V,X7R,TP201	
....4	DC40	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	PC06	2203-000274	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP	
....4	DC41	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11,5		....4	PC07	2203-000274	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP	
....4	DC42	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11,5		....4	PC08	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP2012	
....4	DC43	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11,5		....4	PC09	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	DD01	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8		....4	PC13	2203-001245	C-CERAMIC,CHIP;0.082nF,5%,50V,NP0,TP201	
....4	DD02	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8		....4	PC14	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5	
....4	DD03	0403-001127	DIODE-ZENER;02DZ5.1,5.1,200mW,SOD-323,TP		....4	PC17	2401-000603	C-AL;1uF,20%,50V,GP,TP5x11,5	
....4	DD06	0403-001127	DIODE-ZENER;02DZ5.1,5.1,200mW,SOD-323,TP		....4	PC18	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP2012	
....4	DD07	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8		....4	PC19	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP2012	
....4	DL01	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	PC20	2401-000620	C-AL;2.2uF,10%,50V,GP,TP5x11,5	
....4	DL02	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	PC21	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP	
....4	DL03	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	PC22	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP2012	
....4	DL04	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	PC23	2401-000620	C-AL;2.2uF,10%,50V,GP,TP5x11,5	
....4	DL05	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	PC24	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP	
....4	DL06	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	PC25	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP	
....4	DL07	2702-001092	INDUCTOR-RADIAL;2.2uH,10%,6x4mm		....4	PC26	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP2012	
....4	DQ01	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T		....4	PC27	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	DQ02	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,		....4	PC28	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP2012	
....4	DR01	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012		....4	PC29	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5	
....4	DR02	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012		....4	PC41	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	DR03	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP2012		....4	PC42	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP	
....4	DR04	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP2012		....4	PC43	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	DR05	2007-000023	R-CHIP;120OHM,5%,1/10W,DA,TP2012		....4	PCB	AA41-00479A	PCB-SCAN BLOCK;CS29A7HFFR-4,4LA,1.6T,2	S.NA
....4	DR06	2007-000023	R-CHIP;120OHM,5%,1/10W,DA,TP2012		....4	PHR01	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012	
....4	DR07	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP2012		....4	PHR07	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP2012	
....4	DR08	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012		....4	PHR08	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP2012	
....4	DR09	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012		....4	PHR09	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP2012	
....4	DR10	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP2012		....4	PHR10	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP2012	
....4	DR11	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012		....4	PHR15	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP2012	
....4	DR12	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP2012		....4	PIC01	1204-001658	IC-PICTURE PROCESS;SDA9489X-B22,SOP28P,	
....4	DR13	2007-000380	R-CHIP;13KOHM,5%,1/10W,DA,TP2012		....4	PIC04	1203-001419	IC-VOLTAGE REGULATOR;4931,TO-252,3P,6.6x	
....4	DR14	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP2012		....4	PLO1	2901-000297	FILTER-EMI ON BOARD,-,3A,-,-,3.5x5,TP,-	
....4	DR15	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP2012		....4	PLO2	2901-000297	FILTER-EMI ON BOARD,-,3A,-,-,3.5x5,TP,-	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	PL03	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-		....4	SR55	2011-000585	R-NETWORK;47ohm,5%,63mWL,CHIP8P,TP	
....4	PL04	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-		....4	SR56	2011-000585	R-NETWORK;47ohm,5%,63mWL,CHIP8P,TP	
....4	PQ01	0501-002049	TR-SMALL SIGNAL;BC858,PNP;310mW,SOT-23,T		....4	SR58	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
....4	PQ02	0501-002049	TR-SMALL SIGNAL;BC858,PNP;310mW,SOT-23,T		....4	YC01	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PQ03	0501-002049	TR-SMALL SIGNAL;BC858,PNP;310mW,SOT-23,T		....4	YC02	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PQ05	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,		....4	YC03	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR01	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012		....4	YC04	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR07	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	YC05	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR08	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012		....4	YC08	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR09	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012		....4	YC09	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR10	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012		....4	YC10	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR19	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012		....4	YC11	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR20	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012		....4	YC12	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR21	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012		....4	YC13	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR23	2007-000401	R-CHIP;1500HM,5%,1/10W,DA,TP,2012		....4	YC14	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR24	2007-000401	R-CHIP;1500HM,5%,1/10W,DA,TP,2012		....4	YC15	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR25	2007-000401	R-CHIP;1500HM,5%,1/10W,DA,TP,2012		....4	YC16	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR26	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YC17	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR27	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YC18	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR28	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YC19	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR29	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YC20	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	PR30	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YC23	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	PR31	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YC24	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	PR32	2007-001201	R-CHIP;820OHM,5%,1/10W,DA,TP,2012		....4	YC25	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	PR33	2007-001201	R-CHIP;820OHM,5%,1/10W,DA,TP,2012		....4	YC28	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	PR34	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012		....4	YC29	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC01	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC30	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	SC02	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC31	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC03	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC32	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC04	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC33	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC05	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC34	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	SC06	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC35	2401-000493	C-AL;10uF,20%,50V,LZ,TP5x11mm,5mm	
....4	SC07	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5		....4	YC36	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC08	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC37	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC09	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC38	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC10	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC39	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC11	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC40	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC12	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5		....4	YC41	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC13	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC42	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11,5	
....4	SC14	2203-001002	C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201		....4	YC45	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	SC15	2203-001002	C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201		....4	YC46	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC16	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5		....4	YC47	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC17	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC48	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC18	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC49	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
....4	SC19	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC50	2203-002494	C-CERAMIC,CHIP;470nF,10%,16V,X7R,TP,2012	
....4	SC20	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC52	2203-001088	C-CERAMIC,CHIP;0.005nF,0.25pF,50V,NP0,TP	
....4	SC21	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC53	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC22	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC54	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC23	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5		....4	YC55	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC24	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC56	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC25	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC57	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11,5	
....4	SC26	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC58	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC27	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC59	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC28	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC60	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
....4	SC29	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YC62	2401-000603	C-AL;1uF,20%,50V,GP,TP5x11,5	
....4	SC30	2401-003102	C-AL;100uF,20%,10V,GP,TP5x11,5		....4	YD01	0403-000620	DIODE-ZENER;RL25.6B,5.6,500mW,LL-34,TP	
....4	SC31	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YD02	0403-000620	DIODE-ZENER;RL25.6B,5.6,500mW,LL-34,TP	
....4	SC32	2401-003102	C-AL;100uF,20%,10V,GP,TP5x11,5		....4	YD03	0403-001117	DIODE-ZENER;RL212B,5%,500mW,LL-34,TP	
....4	SC33	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YD04	0403-001117	DIODE-ZENER;RL212B,5%,500mW,LL-34,TP	
....4	SC34	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		....4	YD05	0403-001117	DIODE-ZENER;RL212B,5%,500mW,LL-34,TP	
....4	SC35	2401-000603	C-AL;1uF,20%,50V,GP,TP5x11,5		....4	YF11	2901-000226	FILTER-EMI SMD;25V,0.3A,-,100pF,3.2x1.25	
....4	SC39	2401-003102	C-AL;100uF,20%,10V,GP,TP5x11,5		....4	YF12	2901-000226	FILTER-EMI SMD;25V,0.3A,-,100pF,3.2x1.25	
....4	SL01	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012		....4	YF13	2901-000226	FILTER-EMI SMD;25V,0.3A,-,100pF,3.2x1.25	
....4	SL02	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-		....4	YF14	2901-000226	FILTER-EMI SMD;25V,0.3A,-,100pF,3.2x1.25	
....4	SL03	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	YF15	2901-000226	FILTER-EMI SMD;25V,0.3A,-,100pF,3.2x1.25	
....4	SL04	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm		....4	YL01	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
....4	SL06	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-		....4	YQ01	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP;150mW,SOT-23	
....4	SR01	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YQ02	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP;150mW,SOT-23	
....4	SR02	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		....4	YQ03	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP;150mW,SOT-23	
....4	SR10	2007-000947	R-CHIP;470HM,5%,1/10W,DA,TP,2012		....4	YQ06	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
....4	SR11	2007-000947	R-CHIP;470HM,5%,1/10W,DA,TP,2012		....4	YQ08	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP;150mW,SOT-23	
....4	SR12	2007-000947	R-CHIP;470HM,5%,1/10W,DA,TP,2012		....4	YQ11	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
....4	SR50	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012		....4	YQ12	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
....4	SR51	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012		....4	YR03	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
....4	SR52	2007-000938	R-CHIP;47KOHM,1%,1/10W,DA,TP,2012		....4	YR05	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
....4	SR53	2011-000585	R-NETWORK;47ohm,5%,63mWL,CHIP8P,TP		....4	YR06	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
....4	SR54	2011-000585	R-NETWORK;47ohm,5%,63mWL,CHIP8P,TP		....4	YR07	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	YR08	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT03	2203-001077	C-CERAMIC,CHIP;0.056nF5%,50V,NP0,TP,201	
....4	YR09	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT04	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
....4	YR10	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT05	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
....4	YR11	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT06	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
....4	YR12	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT07	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
....4	YR14	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012		....4	CT08	2203-000408	C-CERAMIC,CHIP;0.18nF5%,50V,NP0,TP,2012	
....4	YR15	2007-000938	R-CHIP;47KOHM,1%,1/10W,DA,TP,2012		....4	CT10	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
....4	YR18	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT11	2401-000603	C-AL;1uF,20%,50V,GP,TP5x11.5	
....4	YR23	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	CT12	2203-000634	C-CERAMIC,CHIP;0.022nF5%,50V,NP0,TP,201	
....4	YR24	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	CT13	2203-001077	C-CERAMIC,CHIP;0.056nF5%,50V,NP0,TP,201	
....4	YR25	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT14	2401-001469	C-AL;47uF,20%,10V,GP,TP5x11.5	
....4	YR26	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT15	2203-000818	C-CERAMIC,CHIP;0.033nF5%,50V,NP0,TP,201	
....4	YR27	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT16	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP	
....4	YR28	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	CT17	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
....4	YR29	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		....4	D901	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
....4	YR30	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	D903	0401-000133	DIODE-SWITCHING;RLS4148,100V,200MA,SOD-8	
....4	YR31	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		....4	IC901	AA13-30013H	IC-MCU;SDA30C264,64,5V,16MHZ,16BIT,SDIP	
....4	YR32	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	IC903	1203-000515	IC-VOL. DETECTOR;7042,TO-92,3P,177MIL,PL	
....4	YR33	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		....4	ICT01	1204-001579	IC-OSD PROCESSOR;SDA5275-3P,PLCC,68P,-P	
....4	YR40	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012		....4	ICT02	1105-001315	IC-DRAM;4E170411,4Mx4Bit,SOJ,24P,300MIL	
....4	YR41	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	L901	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
....4	YR46	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	L902	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
....4	YR47	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	L903	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
....4	YR48	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	PCB	AA41-00158B	PCB-PAL MICOM;CS29A7HF9,FR-4,2L,B,1.6T,	S.N.A
....4	YR49	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		....4	Q901	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR50	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012		....4	Q902	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR51	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012		....4	Q903	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR52	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		....4	Q904	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR53	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	Q905	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR56	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	Q906	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR58	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		....4	QT01	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR59	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	QT02	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR60	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	QT03	0501-000727	TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23,	
....4	YR61	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		....4	R901	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR62	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	R902	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	YR63	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	R903	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	YR65	2007-000582	R-CHIP;22KOHM,1%,1/10W,DA,TP,2012		....4	R904	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	YR83	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		....4	R905	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR84	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	R906	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR88	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	R907	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR89	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		....4	R908	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR90	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	R909	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR91	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	R910	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	YR92	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		....4	R911	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	YR98	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		....4	R912	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
..2		AA95-01220A	ASSY-PCB,MICOM;CS29A7HFKS4A,PAL		....4	R913	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
..3	CNU01	3711-003215	CONNECTOR-HEADER;NOWALL,18P,1R,2.5mm,ANG		....4	R914	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
..3	CNU02	3711-003543	CONNECTOR-HEADER;NOWALL,16P,1R,2.54mm,AN		....4	R915	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
..3	CNU03	AA61-10068A	BRACKET-PCB;M2160,SPT,TO.3,-,-,-	S.N.A	....4	R916	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
..3	CNU04	AA61-10068A	BRACKET-PCB;M2160,SPT,TO.3,-,-,-	S.N.A	....4	R917	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
..3	IC902	1102-001010	IC-EEPROM;27C040,512Kx8BIT,DIP,32P,600MIL		....4	R918	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
..3	X901	2801-001476	CRYSTAL-UNIT;12.0MHz,50ppm,28-ABQ,S,30oh		....4	R919	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
..3		AA99-20096C	ASSY-PCB SUB,AUTO; AA95-01220A /V	S.N.A	....4	R920	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
....4	C901	2401-001469	C-AL;47uF,20%,10V,GP,TP5x11.5		....4	R921	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C902	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	R922	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C903	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012		....4	R923	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C904	2203-000761	C-CERAMIC,CHIP;330nF,10%,16V,X7R,TP,2012		....4	R924	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
....4	C905	2401-000934	C-AL;22uF,20%,25V,BP,TP8x11.5,5		....4	R925	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C906	2401-000027	C-AL;4.7uF,20%,50V,GP,TP5x11.5		....4	R926	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	C907	2203-000858	C-CERAMIC,CHIP;0.039nF,5%,50V,NP0,TP,201		....4	R927	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
....4	C908	2203-000858	C-CERAMIC,CHIP;0.039nF,5%,50V,NP0,TP,201		....4	R928	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C909	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		....4	R929	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C910	2401-001469	C-AL;47uF,20%,10V,GP,TP5x11.5		....4	R930	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	C911	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012		....4	R931	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
....4	C912	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-		....4	R932	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
....4	C913	2401-001469	C-AL;47uF,20%,10V,GP,TP5x11.5		....4	R933	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
....4	C914	2401-001469	C-AL;47uF,20%,10V,GP,TP5x11.5		....4	R934	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	
....4	C917	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	R935	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
....4	C918	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11.5		....4	R936	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
....4	C919	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012		....4	R937	2007-000941	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C920	2401-001469	C-AL;47uF,20%,10V,GP,TP5x11.5		....4	R938	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	C921	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012		....4	R939	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	C922	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012		....4	R940	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
....4	C923	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012		....4	R941	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	CT01	2203-000181	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP		....4	R942	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
....4	CT02	2305-000149	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5		....4	R943	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
...	C726	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CP07	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11,5	
...	C727	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CP08	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m	
...	C728	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm		...	CS01	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C729	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CS02	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C730	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CS03	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C731	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CS04	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C732	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	CS05	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C733	2201-000982	C-CERAMIC,DISC;10nF,+80-20%,50V,Y5V,TP4		...	CS06	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C734	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	CS07	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C735	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	CS08	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C740	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CS09	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11,5	
...	C741	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	CS12	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C742	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP-,5mm		...	CS13	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C743	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP-,5mm		...	CS14	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C744	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP-,5mm		...	CS15	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C745	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	CS16	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C746	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS17	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
...	C801	2401-000832	C-AL;220uF,20%,25V,GP,TP8x11,5,5		...	CS18	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
...	C802	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS19	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
...	C803	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	CS20	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
...	C804	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS23	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm	
...	C805	2401-000832	C-AL;220uF,20%,25V,GP,TP8x11,5,5		...	CS24	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm	
...	C806	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS25	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm	
...	C807	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	CS26	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm	
...	C808	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS27	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm	
...	C809	2401-000832	C-AL;220uF,20%,25V,GP,TP8x11,5,5		...	CS28	2305-000355	C-FILM,MPEF;330nF,5%,63V,TP-,5mm	
...	C810	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS29	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm	
...	C811	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	CS30	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5	
...	C812	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS32	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5	
...	C813	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	CS33	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP-,5mm	
...	C814	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	CS34	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP-,5mm	
...	C815	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	CS35	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP-,5mm	
...	C816	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	D201	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C819	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	D202	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C820	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	D203	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C825	2401-000287	C-AL;100uF,20%,16V,WT,TP6.3x11,5		...	D204	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP1.8X3.2MM	
...	C901	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	D601	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C902	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	D602	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C903	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	D603	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C905	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	D604	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	C906	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	D801	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L	
...	CB01	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	D901	0403-000701	DIODE-ZENER;TZP5.1A,5.1V,4.8-5.4V,1W,DO-	
...	CB02	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	DG01	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	CD01	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	DS01	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...	CD02	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	DZ101	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,T	
...	CD03	2401-002458	C-AL;1000uF,20%,35V,GP,TP16x25,7,5		...	DZ201	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500mW,DO	
...	CD04	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	DZ202	0403-001320	DIODE-ZENER;MTZJ6.2C,6.12-6.44V,500mW,DO	
...	CD05	2401-002458	C-AL;1000uF,20%,35V,GP,TP16x25,7,5		...	DZ601	0403-001316	DIODE-ZENER;MTZJ3.0A,2.85-3.07V,500mW,DO	
...	CD06	2401-002216	C-AL;2200uF,20%,35V,GP,TP16x25,7,5		...	DZ602	0403-000367	DIODE-ZENER;UZ7.5BSC,7.5V,7.33-7.64V,500	
...	CD07	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	DZ603	0403-000367	DIODE-ZENER;UZ7.5BSC,7.5V,7.33-7.64V,500	
...	CD08	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	DZD01	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,T	
...	CD09	2401-000027	C-AL;4.7uF,20%,50V,GP,TP5x11,5		...	DZD02	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,T	
...	CD10	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP		...	EL01	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD11	2401-000832	C-AL;220uF,20%,25V,GP,TP8x11,5,5		...	EL02	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD12	2401-000027	C-AL;4.7uF,20%,50V,GP,TP5x11,5		...	EL04	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD13	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP		...	EL05	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD14	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3		...	EL06	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD15	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP3		...	EL07	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD16	2301-000111	C-FILM,PEF;1.8nF,5%,50V,TP6.5x3.0x5.5mm		...	EL08	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD17	2301-000111	C-FILM,PEF;1.8nF,5%,50V,TP6.5x3.0x5.5mm		...	EL09	AA60-40011B	EYELET;ID2.2,OD3.2,-,BSP-	S.N.A
...	CD18	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	EY01	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CD19	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	EY02	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CG01	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	EY03	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CG02	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	EY04	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CG03	2401-001840	C-AL;100uF,20%,16V,GP,TP6.3x11,5		...	EY05	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CG04	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP7.5x4.0x5.0m		...	EY06	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CG05	2401-002235	C-AL;10uF,20%,16V,GP,TP5x11mm,5mm		...	EY07	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CN902A	3711-002646	CONNECTOR-HEADER;BOX,7P,1R,2.5mm,STRAIGH		...	EY08	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CN903A	3711-002646	CONNECTOR-HEADER;BOX,7P,1R,2.5mm,STRAIGH		...	EY09	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CN904A	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGH		...	EY10	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CND01	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGH		...	EY11	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CND02	3711-002645	CONNECTOR-HEADER;BOX,6P,1R,2.5mm,STRAIGH		...	EY12	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CNG01A	3711-002646	CONNECTOR-HEADER;BOX,7P,1R,2.5mm,STRAIGH		...	EY13	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CNW03A	3711-002642	CONNECTOR-HEADER;BOX,3P,1R,2.5mm,STRAIGH	S.N.A	...	EY14	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CP03	2401-002463	C-AL;470uF,20%,16V,GP,TP8x11,5,5		...	EY15	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A
...	CP04	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP		...	EY16	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST-	S.N.A

Level	Loc. No.	Code No.	Description ; Specification	Remark
...	...	0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	
...	...	0202-001167	SOLDER-CREAM;RX3603-2330HO,S45A,PASTE,SN	S.N.A
...	...	AA41-00162C	PCB-DOLBY;CS29A7HF,FR-4,2L,C,1.6T,180x24	S.N.A
ASSY-PCB-MASTER				
1	*	AA95-01358A	ASSY-PCB-MASTER,WS36Z48D,KS4A,PAL	
..2	CN811	AA39-20179C	LEAD CONNECTOR-ASSY;,3I2P,YFH800-150,S,	
..2	HP+PCB	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A
..2	MPP+LP	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A
..2	PCB	AA41-00521A	PCB-MASTER S/W;CS32Z4,FR-1,1LA,1.6T,245	S.N.A
△	SW811S	3403-001107	SWITCH-PUSH;250V,5A,DPST,-,KDC-A04	
..2		AA99-20102E	ASSY-PCB SUB,AUTO; AA95-01358A ,V	S.N.A
...	EY01	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	EY02	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	EY03	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	EY04	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	GTU05	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...	GTU06	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...	GTU07	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...	GTU08	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...	GTU09	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...	GTU10	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
..2		AA61-00450B	HOLDER-POWER;3Z25,ABS,-,GRAY,HB	S.N.A
..2		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	

Level	Loc. No.	Code No.	Description ; Specification	Remark	
...	...	DZW02	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,T	
...	...	EW01	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	...	EW02	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	...	EW03	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	...	EW04	AA60-40011A	EYELET;ID2.0,OD2.8,-,BST,-	S.N.A
...	...	GT01	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...	...	QW01	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
...	...	QW02	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
...	...	RW01	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW02	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW03	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW04	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW05	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW07	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW08	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW09	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW10	2001-001146	R-CARBON(S);4.70HM,5%,1/2W,AA,TP,2.4X6.4	
...	...	RW11	2001-001146	R-CARBON(S);4.70HM,5%,1/2W,AA,TP,2.4X6.4	
...	...	RW12	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...	...	RW13	2001-001050	R-CARBON(S);1.5KOHM,5%,1/2W,AA,TP,2.4X6.4	
...	...	RW14	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.4X6.4	
...	...	RW15	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.4X6.4	
...	...	RW16	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb		
..2		AA39-20010A	LEAD CONNECTOR-ASSY;,1P,YFH800-01,S,200,		

ASSY-PCB-A/V SIDE

Level	Loc. No.	Code No.	Description ; Specification	Remark
1	*	AA95-01355A	ASSY-PCB-A/V SIDE,WS36Z48D,KS4A,PAL	
..2	C701	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	
..2	C702	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	
..2	C703	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
..2	C704	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
..2	C705	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
..2	C706	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
..2	C707	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
..2	C708	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
..2	CN701A	AA39-20159C	LEAD CONNECTOR-ASSY;,12PYBNH025-12,6709	
..2	CN702A	AA39-20070F	LEAD CONNECTOR-ASSY;,7PYBNH025-07,67096	
..2	JA701A	3722-001031	JACK-PIN;3P;3.6mm,#18,AU	
..2	JA702A	3722-001163	JACK-VHS;4P;12mm,AU,BLK,N	
..2	JA703A	3722-000143	JACK-PHONE;1P(YER);3.4PI,AG,BLK,NO	
..2	JA704A	3701-000003	CONNECTOR-DSUB;15P;3R,FEMALE,ANGLE,AUF	
..2	L701	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L702	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L703	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L704	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L705	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L706	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L707	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L708	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	L709	2901-000297	FILTER-EMI ON BOARD;-;3A,-,3.5x5,TP,-	
..2	R703	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R704	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R705	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R706	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R707	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R708	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R709	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2	R710	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..3		AA61-00544B	HOLDER-AV,COVER ASSY;3Z25,ABS,GRAY,HB KS	S.N.A
..3		AA61-00452B	HOLDER-AV,COVER;3Z25,ABS,-,GRAY,HB	S.N.A
..3		AA64-01204C	INLAY-SIDE,AV;3Z25,PS SHEET,TO.3,KS4A,PA	S.N.A
..2		AA61-00545A	HOLDER-AV,HOUSING ASSY;3Z25,ABS,-,GR	S.N.A
..3		6003-001070	SCREW-TAPTITE;BH,+B,M2,L4,ZPC(BLK),SWRC	S.N.A
..3		AA61-00453B	HOLDER-AV,HOUSING;3Z25,ABS,-,GRAY,HB	S.N.A
..3		AA61-30001A	LATCH-DOOR;-;KIFUCO LA701	
..3		AA61-80002A	DAMPER-GEAR;-;DP802,-,BLU,DP802	
..2		AA61-60109D	SPRING-DOOR;32W,SUS304L,-,-----	S.N.A
..2		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	
..2		AA41-00245A	PCB-SIDE A/V;KS4A,1LFR-1,245x245x1.6T,8	S.N.A
..2		AA61-00451B	HOLDER-AV;3Z25,ABS,-,G4309,HB	S.N.A

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
ASSY PCB CRT									
1	*	AA95-00495A	ASSY PCB CRT,-KS4A,29',-CRT DRIVE,V/M,		...	DF06	0401-000005	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
...					...	DF07	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
...					...	DF08	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T	
...					...	DZ501	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
...					...	DZ502	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
...					...	DZ503	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
...					...	DZ504	0403-001324	DIODE-ZENER;MTZJ13A,12.11-12.75V,500mW,D	
...					...	DZ510	0403-000698	DIODE-ZENER;TZP12A,12V,11.4-12.6V,1W,DO-	
...					...	EL80	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL81	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL82	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL83	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL84	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL85	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL86	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL87	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL88	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL89	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL90	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL91	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	EL93	AA60-40011B	EYELET;ID2,2,0D3,2,-,BSP-	S.N.A
...					...	FN1	3711-002643	CONNECTOR-HEADER;BOX,4P1R,2.5mm,STRAIGH	
...					...	FV1	3711-002642	CONNECTOR-HEADER;BOX,3P1R,2.5mm,STRAIGH	S.N.A
...					...	GT501	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...					...	GT502	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...					...	GT504	AA60-40014A	PIN-GT,ASSY;1P,-,AUTO	S.N.A
...					...	L502	2701-000178	INDUCTOR-AXIAL;35uH,10%,3x7mm	
...					...	LF01	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	
...					...	LF02	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	
...					...	LF03	2701-000112	INDUCTOR-AXIAL;100uH,10%,3x7mm	
...					...	LF04	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	
...					...	LF06	2901-000297	FILTER-EMI ON BOARD,-,3A,-,3.5x5,TP-	
...					...	LF08	2901-000297	FILTER-EMI ON BOARD,-,3A,-,3.5x5,TP-	
...					...	LF09	2901-000297	FILTER-EMI ON BOARD,-,3A,-,3.5x5,TP-	
...					...	LF11	2901-000297	FILTER-EMI ON BOARD,-,3A,-,3.5x5,TP-	
...					...	Q504	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
...					...	QF01	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
...					...	QF02	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
...					...	QF03	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
...					...	QF04	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
...					...	QF05	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
...					...	R501	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R502	2001-000252	R-CARBON;1.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R503	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R504	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AA,TP,2.4X6.	
...					...	R505	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AA,TP,2.4X6.	
...					...	R506	2001-001045	R-CARBON(S);1.2KOHM,5%,1/2W,AA,TP,2.4X6.	
...					...	R507	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R508	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R510	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4	
...					...	R511	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4	
...					...	R512	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4	
...					...	R513	2002-001017	R-COMPOSITION;1Kohm,10%,1/2W,AA,TP,3.7x9	
...					...	R514	2002-001017	R-COMPOSITION;1Kohm,10%,1/2W,AA,TP,3.7x9	
...					...	R515	2002-001017	R-COMPOSITION;1Kohm,10%,1/2W,AA,TP,3.7x9	
...					...	R518	2001-001095	R-CARBON(S);2.2MOHM,5%,1/2W,AA,TP,2.4X6.	
...					...	R519	2001-000356	R-CARBON;150KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R520	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R521	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R522	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R523	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R525	2002-001006	R-COMPOSITION;4.7Kohm,5%,1/2W,AA,TP,3.7x	
...					...	R528	2008-000252	R-FUSIBLE(S);0.47ohm,10%,1/2W,AF,TP,2.5x	
...					...	R540	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R554	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R555	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R556	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R560	2001-001049	R-CARBON(S);1.3KOHM,5%,1/2W,AA,TP,2.4X6.	
...					...	R561	2001-001126	R-CARBON(S);300OHM,5%,1/2W,AA,TP,2.4X6.4	
...					...	R562	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R563	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R564	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	R565	2004-001379	R-METAL(S);12Kohm,1%,1/2W,AA,TP,2.4x6.4mm	
...					...	R566	2001-001040	R-CARBON(S);0.680HM,5%,1/2W,AA,TP,2.4X6.	
...					...	RF02	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
...					...	RF03	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
ASSY CHASSIS PART					REMOCON				
1	*	AA90-00954B	ASSY CHASSIS PART;KS4A,29Z4		1	*	AA59-00143B	REMOCON;TM63,DREAM4,53,L/GRAY,TTX,E/X,R	
..2	BPA+HC	6002-000512	SCREW-TAPPING;RH,+,2,M4,L12,ZPC(BLK),SWR	S.N.A	ASSY-CRT				
..2	C-BLOC	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	1	*	AA94-50022A	ASSY-CRT;A68QCP891X004,+380MG,29',JTC,CT	S.N.A
..2	MP+HC	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	..2		AA03-00076A	CRT-COLOR;A68QCP891X004(C),29,FLAT,78%/4	
..2	PP+HC	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A	ASSY ACCESSORY				
..2	TBA+HC	6006-001095	SCREW-ASS'Y TAPT;WPBH,+,M4,L12,ZPC(YEL)	S.N.A	1	*	AA94-03192D	ASSY ACCESSORY;WS32Z4HF9X/BWT,KS4A,RUSSI	S.N.A
..2		AA61-00732B	HOLDER-CHASSIS;29Z4,HIPS,GRAY,VO	S.N.A	..2		AA68-01741B	MANUAL-CIS MODEL;KS4A,CIS,W/P100G,A4,1P,	
..2		AA65-00011B	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,-,NTR,1	S.N.A	..2		AA68-01487B	MANUAL USERS;B5,W/P100(G),56P,1,KS4A,PI	
ASSY CABINET					..2		AA68-01402A	MANUAL-GOOD WILL LETTER;CIS,B5,1PAGE,A/	
1	*	AA90-00953B	ASSY CABINET;29Z4,CS29Z4HF9X/BWT		..2		AA68-01120A	MANUAL SERVICE;CIS,A4,6PAGE(FOLD),W/	S.N.A
..2	BRK+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A	ASSY CABINET FRONT				
..2	CABBAC	AA60-00091J	SPACER-FELT;FELT,330X10,-,BLK,T0.5,-	S.N.A	1	*	AA91-00748E	ASSY CABINET FRONT;CS-29Z4HF,IVN1112+WH	
..2	CB+CF	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+,2S,	S.N.A	..2	MAS+CF	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	S.N.A
..2	CB+TBA	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+,2S,	S.N.A	..2	SPK+CF	6006-001096	SCREW-ASS'Y TAPT;WPBH,+,M4,0.L12,BLK,SW	S.N.A
..2	CRT+CF	AA60-10050V	SCREW-ASS'Y;-SWRCH18A,M6,L30,HH,+,WVC,-Z	S.N.A	..2	WIN+CF	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	S.N.A
..2	D-COIL	AA65-30113A	CLAMP-D,COIL;-NYLON 66,V2,-,BLK,TVI 25-	S.N.A	..2		AA64-01979G	CABINET-MASK;CS29Z4HF,HIPS,HB,G7666,IVN1	
..2	DR+CF	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR	S.N.A	..2		AA64-02018B	INLAY-COVER;32Z4,32Z5,PS SHEET,T0.3,-,	S.N.A
..2	HP+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A	..2		AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,-,NTR,2	S.N.A
..2	KC+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A	..2		AA91-00738A	ASSY HOLDER SPK;-PP80HM,10W,-ZEUS-2 F	
..2	TB+RCA	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+,2S,	S.N.A	..2		AA64-01200H	KNOB POWER;32Z5,ABS,HB,WHT,IVN1112+VWH019	
..2	WOOFER	6006-001095	SCREW-ASS'Y TAPT;WPBH,+,M4,L12,ZPC(YEL)	S.N.A	..2		AA64-01973B	CABINET-FRONT;29Z4 DO,HIPS,HB,G4309,GDM-	S.N.A
..2		AA64-01976B	CABINET BACK;29Z4,HIPS,FV2,GR503	S.N.A	..2		AA61-60003J	SPRING-CS;-SUS304,-,OD6,N7,OD6,-,-,	S.N.A
..3		AA61-20129C	HOLDER-WIRE;29Z4,NYLON-66,GRAY,DAFC-2500	S.N.A	..2		AA64-01062E	BADGE-BRAND;CT-29Z4HR,AL,T1.6,W25,0,L65,	S.N.A
..2		AA73-00005B	RUBBER-CAP;FLAT,PRJ,SILICONE RUBBER,WHIT		..2		AA64-01202B	WINDOW REMOCON;32Z5,PC,-,-,VO,VIOLET-	
..2		AA65-30008A	CLAMP-CORD;-PE,HB,-,BLK,-	S.N.A	..2		AA64-01203B	INDICATOR LED;32Z5,ACRYL,-,CLR,-,-,	
..2		AA60-40006A	PIN-STAPLE;-H18,33X17.8X2.4,-,AUTO	S.N.A	ASSY-TBC,WIRE(P)				
..2		AA61-00706B	HOLDER-COVER;ALL MODEL,NYLON-66 T1.0 V2,	S.N.A	1	*	AA98-70011D	ASSY-TBC,WIRE(P);-29',NTSC,PAL,2P-WH,-	S.N.A
..2		AA61-00731B	HOLDER-PORT;WOOFER;29Z4,HIPS,G4309,FV2	S.N.A	ASSY POWER CORD				
..2		AA61-10054A	BRACKET-CRATER;6277,STS304,T0.5,-,-,-	S.N.A	△ 1	*	AA96-20130H	ASSY POWER CORD;-CP2/NQ(4.0R),H/S 500MM	S.N.A
..2		AA63-60004Y	SPACER-GUM,CRT;ALL MODEL,NTR RUBBER,-,-,	S.N.A	..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	
ASSY CABINET FRONT					..2		AA39-10003B	POWER-CORD;-KJP-140,KLCE-2F;2.4m,HOU,S	
1	*	AA91-00748E	ASSY CABINET FRONT;CS-29Z4HF,IVN1112+WH		..2		AA61-20284A	HOLDER-P-CORD,PP,-,-,BLK,VO,KE-002	S.N.A
..2	MAS+CF	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	S.N.A	ASSY POWER CORD				
..2	SPK+CF	6006-001096	SCREW-ASS'Y TAPT;WPBH,+,M4,0.L12,BLK,SW	S.N.A	△ 1	*	AA96-20130H	ASSY POWER CORD;-CP2/NQ(4.0R),H/S 500MM	S.N.A
..2	WIN+CF	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	S.N.A	..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	
..2		AA64-01979G	CABINET-MASK;CS29Z4HF,HIPS,HB,G7666,IVN1		..2		AA39-10003B	POWER-CORD;-KJP-140,KLCE-2F;2.4m,HOU,S	
..2		AA64-02018B	INLAY-COVER;32Z4,32Z5,PS SHEET,T0.3,-,	S.N.A	..2		AA61-20284A	HOLDER-P-CORD,PP,-,-,BLK,VO,KE-002	S.N.A
..2		AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,-,NTR,2	S.N.A	ASSY POWER CORD				
..2		AA91-00738A	ASSY HOLDER SPK;-PP80HM,10W,-ZEUS-2 F		△ 1	*	AA96-20130H	ASSY POWER CORD;-CP2/NQ(4.0R),H/S 500MM	S.N.A
..2		AA64-01200H	KNOB POWER;32Z5,ABS,HB,WHT,IVN1112+VWH019		..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	
..2		AA64-01973B	CABINET-FRONT;29Z4 DO,HIPS,HB,G4309,GDM-	S.N.A	..2		AA39-10003B	POWER-CORD;-KJP-140,KLCE-2F;2.4m,HOU,S	
..2		AA61-60003J	SPRING-CS;-SUS304,-,OD6,N7,OD6,-,-,	S.N.A	..2		AA61-20284A	HOLDER-P-CORD,PP,-,-,BLK,VO,KE-002	S.N.A
..2		AA64-01062E	BADGE-BRAND;CT-29Z4HR,AL,T1.6,W25,0,L65,	S.N.A	ASSY POWER CORD				
..2		AA64-01202B	WINDOW REMOCON;32Z5,PC,-,-,VO,VIOLET-		△ 1	*	AA96-20130H	ASSY POWER CORD;-CP2/NQ(4.0R),H/S 500MM	S.N.A
..2		AA64-01203B	INDICATOR LED;32Z5,ACRYL,-,CLR,-,-,		..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	
ASSY-TBC,WIRE(P)					..2		AA39-10003B	POWER-CORD;-KJP-140,KLCE-2F;2.4m,HOU,S	
1	*	AA98-70011D	ASSY-TBC,WIRE(P);-29',NTSC,PAL,2P-WH,-	S.N.A	..2		AA61-20284A	HOLDER-P-CORD,PP,-,-,BLK,VO,KE-002	S.N.A
ASSY POWER CORD					ASSY POWER CORD				
△ 1	*	AA96-20130H	ASSY POWER CORD;-CP2/NQ(4.0R),H/S 500MM	S.N.A	△ 1	*	AA96-20130H	ASSY POWER CORD;-CP2/NQ(4.0R),H/S 500MM	S.N.A
..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22		..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	
..2		AA39-10003B	POWER-CORD;-KJP-140,KLCE-2F;2.4m,HOU,S		..2		AA39-10003B	POWER-CORD;-KJP-140,KLCE-2F;2.4m,HOU,S	
..2		AA61-20284A	HOLDER-P-CORD,PP,-,-,BLK,VO,KE-002	S.N.A	..2		AA61-20284A	HOLDER-P-CORD,PP,-,-,BLK,VO,KE-002	S.N.A

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark	
△	...3	R437S	2008-000282	R-FUSIBLE;0.47ohm,5%,1W,AA,TP,3.9x12mm		..2	CB+CF	AA60-10050T	SCREW-TAPPING;- ,SWRCH18A,M4,L20,RH,+2S,	S.N.A
	...3	R438	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4		..2	CB_TBA	AA60-10050T	SCREW-TAPPING;- ,SWRCH18A,M4,L20,RH,+2S,	S.N.A
	...3	R439	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.4X6.4		..2	CRT	AA63-60004L	SPACER-GUM,CRT,- ,NTR RUBBER,- ,,- ,BLK,T3	S.N.A
	...3	R450	2008-001033	R-FUSIBLE(S);10ohm,5%,2W,AF,TP,3.9x10mm		..2	CRT+CF	AA60-10050V	SCREW-ASSY;- ,SWRCH18A,M6,L30,HH,+ ,WC,-Z	S.N.A
	...3	R451	2004-001390	R-METAL(S);1Kohm,2%,1/2W,AA,TP,2.4x6.4mm		..2	DR+CF	6002-000522	SCREW-TAPPING;TH,+2,M4,L15,ZPC(BLK),SWR	S.N.A
	...3	R452	2001-001081	R-CARBON(S);160KOHM,5%,1/2W,AA,TP,2.4X6.		..2	HP+CF	6003-001026	SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR	S.N.A
	...3	R455	2008-001003	R-FUSIBLE(S);5.6ohm,5%,1W,AF,TP,3.9x10mm		..2	KC+CF	6003-001026	SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR	S.N.A
	...3	R456	2003-002130	R-METAL OXIDE(S);15ohm,5%,2W,AF,TP,3.9x1		..2	TB+RCA	AA60-10050T	SCREW-TAPPING;- ,SWRCH18A,M4,L20,RH,+2S,	S.N.A
	...3	R457	2001-001159	R-CARBON(S);510OHM,5%,1/2W,AA,TP,2.4X6.4		..2	WOOFER	6006-001096	SCREW-ASS'Y TAPT;WPBH,+ ,M4.0,L12,BLK,SW	S.N.A
	...3	R458	2003-002130	R-METAL OXIDE(S);15ohm,5%,2W,AF,TP,3.9x1		..2		AA64-01977B	CABINET BACK;34Z4,HIPS,FV2,GR503	S.N.A
	...3	R802	2001-001055	R-CARBON(S);1.8KOHM,5%,1/2W,AA,TP,2.4X6.		...3		AA61-20129C	HOLDER-WIRE;29Z4,NYLON-66,GRAY,DAFC-2500	S.N.A
	...3	R804	2001-001159	R-CARBON(S);510OHM,5%,1/2W,AA,TP,2.4X6.4		..2		AA73-00005B	RUBBER-CAP;FLAT,PRJ,SILICONE RUBBER,WHIT	
	...3	R805	2003-000586	R-METAL OXIDE(S);22Kohm,5%,2W,AF,TP,4x12		..2		AA65-30008A	CLAMP-CORD;- ,PE,HB,- ,BLK,-	S.N.A
	...3	R806	2003-000586	R-METAL OXIDE(S);22Kohm,5%,2W,AF,TP,4x12		..2		AA60-40006A	PIN-STAPLE;- ,H18,33X17.8X2.4,- ,AUTO	S.N.A
	...3	R807	2003-000586	R-METAL OXIDE(S);22Kohm,5%,2W,AF,TP,4x12		..2		AA61-00306B	SUPPORT-CRT;34A7,HIPS,- ,,- ,NTR,HB	
	...3	R808	2001-001129	R-CARBON(S);330KOHM,5%,1/2W,AA,TP,2.4X6.		..2		AA61-00731B	HOLDER-PORT,WOOFER;29Z4,HIPS,G4309,FV2	S.N.A
	...3	R809	2001-001129	R-CARBON(S);330KOHM,5%,1/2W,AA,TP,2.4X6.		..2		AA61-20285A	HOLDER-BOX;3456,PP,- ,,- ,WHT,VO	S.N.A
△	...3	R809S	2008-001011	R-FUSIBLE(S);0.18ohm,10%,2W,AF,TP,3.9x10						
	...3	R810	2001-001163	R-CARBON(S);560OHM,5%,1/2W,AA,TP,2.4X6.4						
	...3	R812	2009-000026	R-METAL PLATE;0.150HM,10%,5W,CL,TP,5X14X						
	...3	R813	2001-001097	R-CARBON(S);2.4KOHM,5%,1/2W,AA,TP,2.4X6.						
	...3	R814	2001-001170	R-CARBON(S);6.8OHM,5%,1/2W,AA,TP,2.4X6.4						
	...3	R817	2001-001144	R-CARBON(S);4.7KOHM,5%,1/2W,AA,TP,2.4X6.						
	...3	R821	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		1	*	AA91-00764E	ASSY CABINET FRONT;- ,CS-34Z4HF,IVN1112+WH	
	...3	R823	2001-001086	R-CARBON(S);18KOHM,5%,1/2W,AA,TP,2.4X6.4		..2	MAS+CF	6003-001019	SCREW-TAPTITE;RH,+ ,B,M4,L12,ZPC(BLK),SWR	S.N.A
	...3	R824	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4		..2	WIN+CF	6003-001019	SCREW-TAPTITE;RH,+ ,B,M4,L12,ZPC(BLK),SWR	S.N.A
	...3	R825	2001-001106	R-CARBON(S);220KOHM,5%,1/2W,AA,TP,2.4X6.		..2		AA64-01980G	CABINET-MASK;CS34Z4HF,HIPS,HB,G7666,IVN1	
	...3	R826	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M		..2		AA64-02018B	INLAY-COVER;3Z24,3Z25,PS SHEET,T0.3,- ,,-	S.N.A
	...3	R827	2001-001097	R-CARBON(S);2.4KOHM,5%,1/2W,AA,TP,2.4X6.		..2		AA64-70124F	BADGE BRAND;ALL,AL,- ,L70,- ,JV118P/GOLD	S.N.A
	...3	R830	2001-001072	R-CARBON(S);120HM,5%,1/2W,AA,TP,2.4X6.4M		..2		AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,- ,NTR,2	S.N.A
	...3	R831	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4		..2		AA91-00738A	ASSY HOLDER SPK;- ,PP;80HM,10W,- ,ZEUS-2 F	
	...3	R832	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M		..2		AA64-01200H	KNOB POWER;3Z25,ABS,HB,WHT,IVN1112+WH019	
	...3	R833	2001-001070	R-CARBON(S);120OHM,5%,1/2W,AA,TP,2.4X6.4		..2		6006-001096	SCREW-ASS'Y TAPT;WPBH,+ ,M4.0,L12,BLK,SW	S.N.A
	...3	R834	2003-001090	R-METAL OXIDE(S);10Kohm,5%,2W,AF,TP,4x12		..2		AA61-60003J	SPRING-CS;- ,SUS304,- ,,- ,OD6,N7,OD6,- ,,- ,	S.N.A
	...3	R835	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		..2		AA64-01202B	WINDOW REMOCON;3Z25,PC,- ,,- ,VO,VIOLET,-	
	...3	R836	2008-001050	R-FUSIBLE;22ohm,5%,2W,AF,TP,3.9x10mm		..2		AA64-01203B	INDICATOR LED;3Z25,ACRYL,- ,CLR,- ,,-	
	...3	RS01	2006-001081	R-CEMENT;82ohm,5%,5W,CJ,TP,14x10x27mm		..2		AA64-01974B	CABINET-FRONT;34Z4 DO,HIPS,HB,G4309,GDM-	S.N.A
	...3	RS02	2006-001081	R-CEMENT;82ohm,5%,5W,CJ,TP,14x10x27mm						
	...3	RS03	2003-001038	R-METAL OXIDE(S);4.7ohm,5%,2W,AF,TP,3.9x						
	...3	RS04	2003-001038	R-METAL OXIDE(S);4.7ohm,5%,2W,AF,TP,3.9x						
△	...3	RX801S	2002-001011	R-COMPOSITION;3.3Mohm,5%,1/2W,AA,TP,3.7x						
△	...3	RY801S	2002-001012	R-COMPOSITION;8.2Mohm,5%,1/2W,AA,TP,3.7x						
△	...3	VP801S	1405-000187	VARISTOR;750V,1250A,12.5x7mm,TP						
△	...3	VX801S	1405-000187	VARISTOR;750V,1250A,12.5x7mm,TP						
	..2		AA98-00002A	ASSY-SUB,PART;S53A,PCB,POWER,ALL,-	S.N.A					
	...3		0202-000187	SOLDER-WIRE FLUX;- ,RS60S,D1.2,63Sn/37Pb						
	..2		AA41-00157G	PCB-POWER;WS36Z48D,CEM-1,1L,G,1.6T,330X1	S.N.A					

ASSY CABINET FRONT

ASSY TBC WIRE(P)

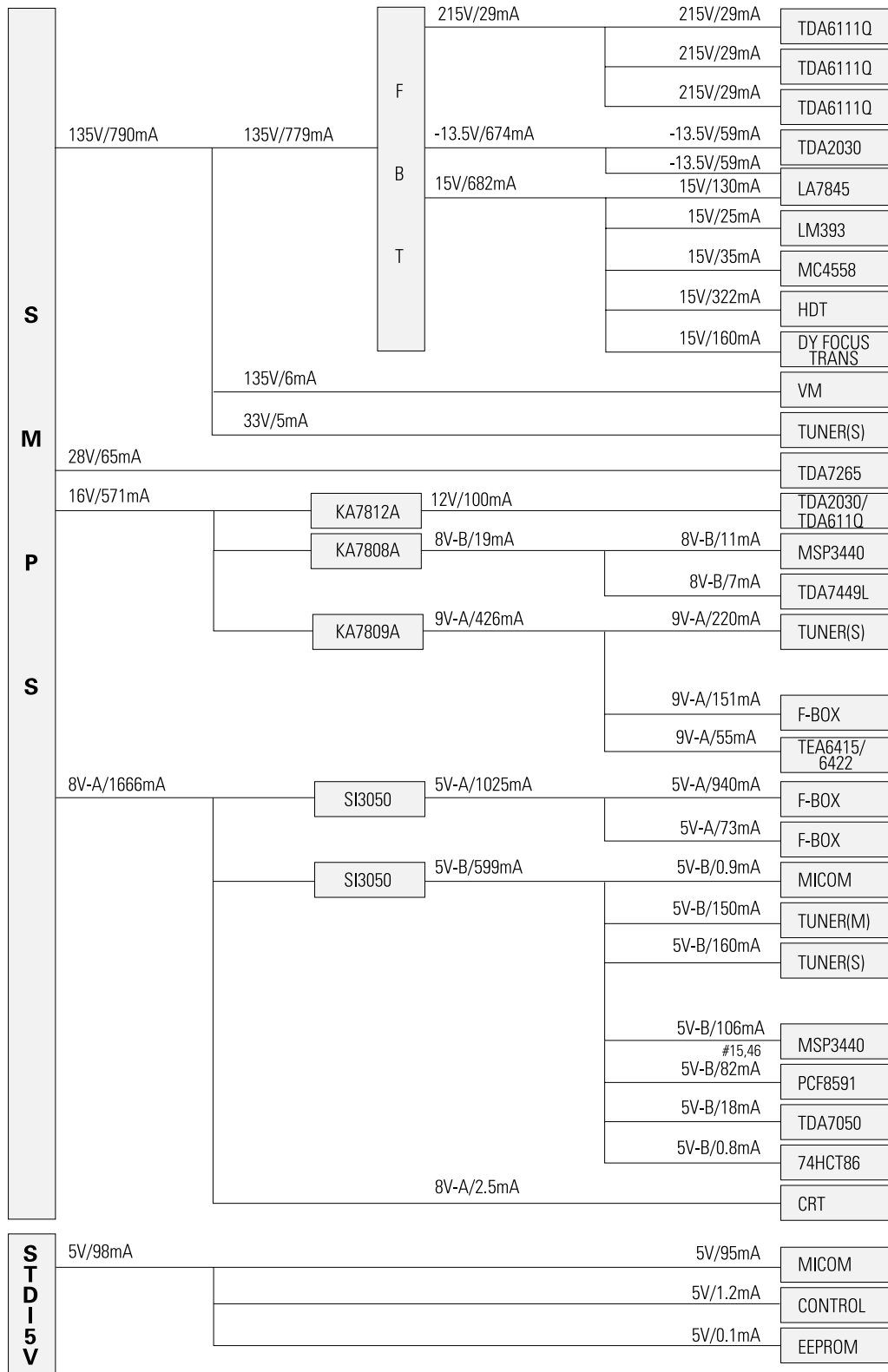
ASSY CRT

ASSY CHASSIS PART

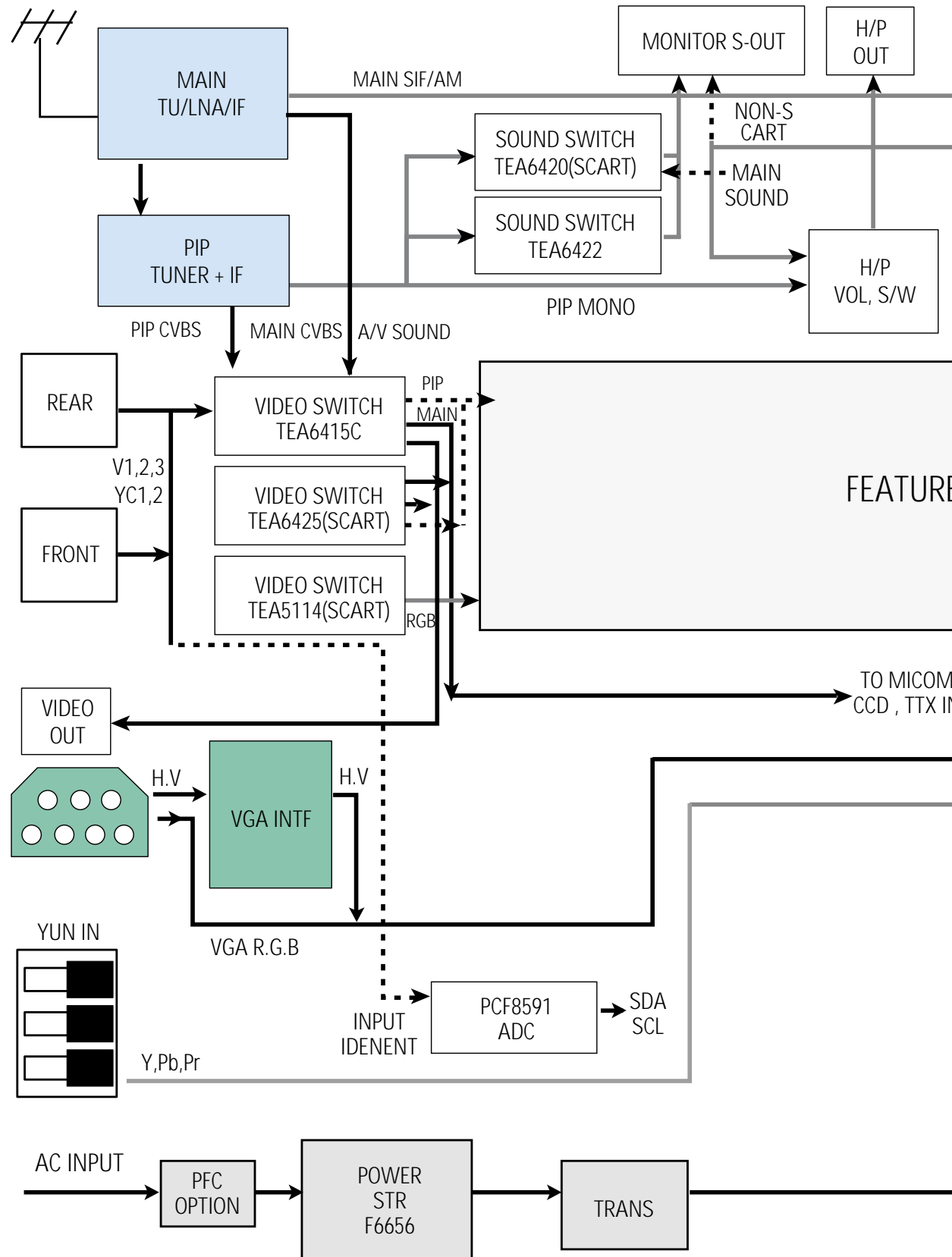
ASSY CABINET

7. Block Diagrams

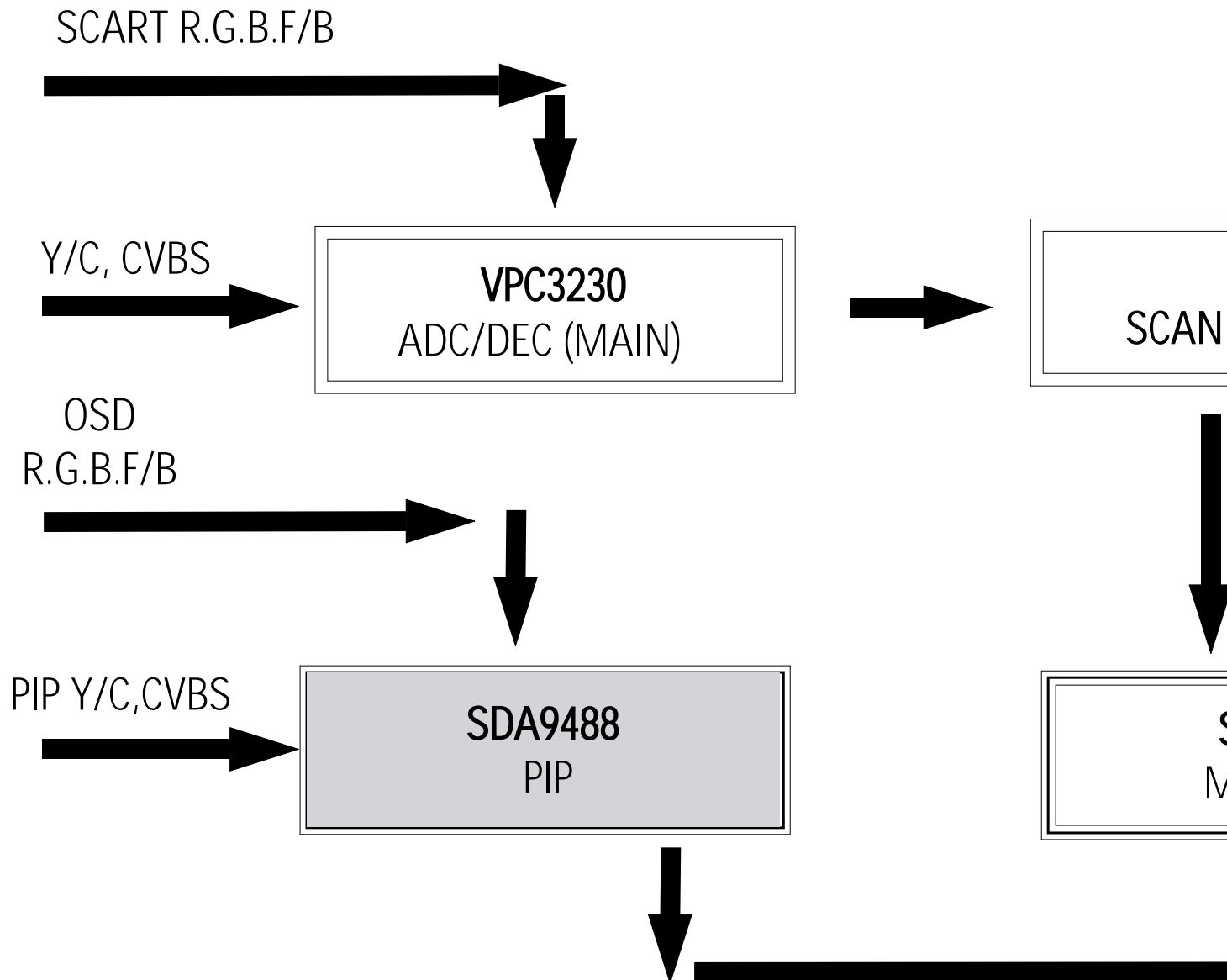
7-1 Voltage/Current Block



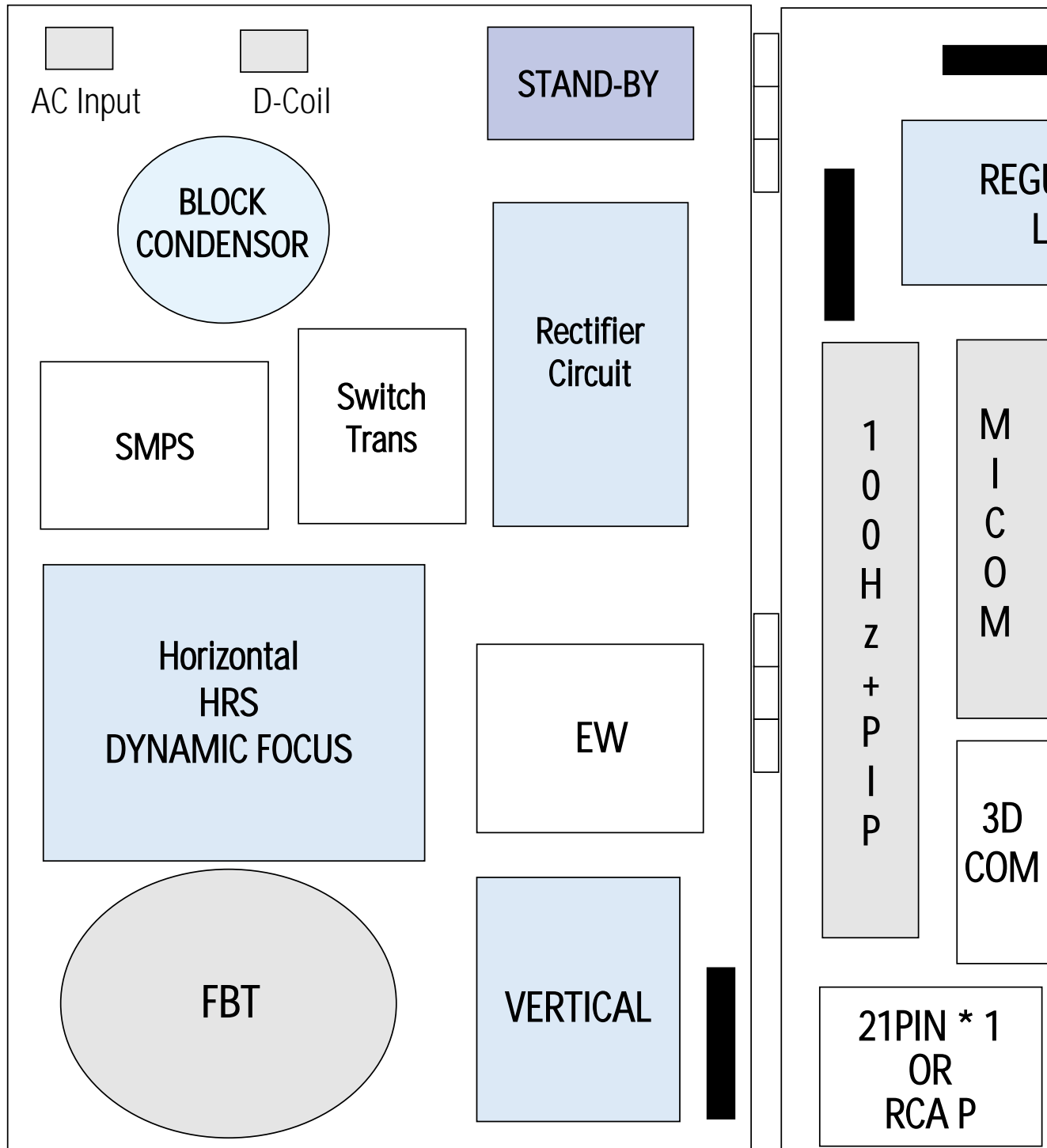
7-2 BLOCK



7-3 FEATURE BOX



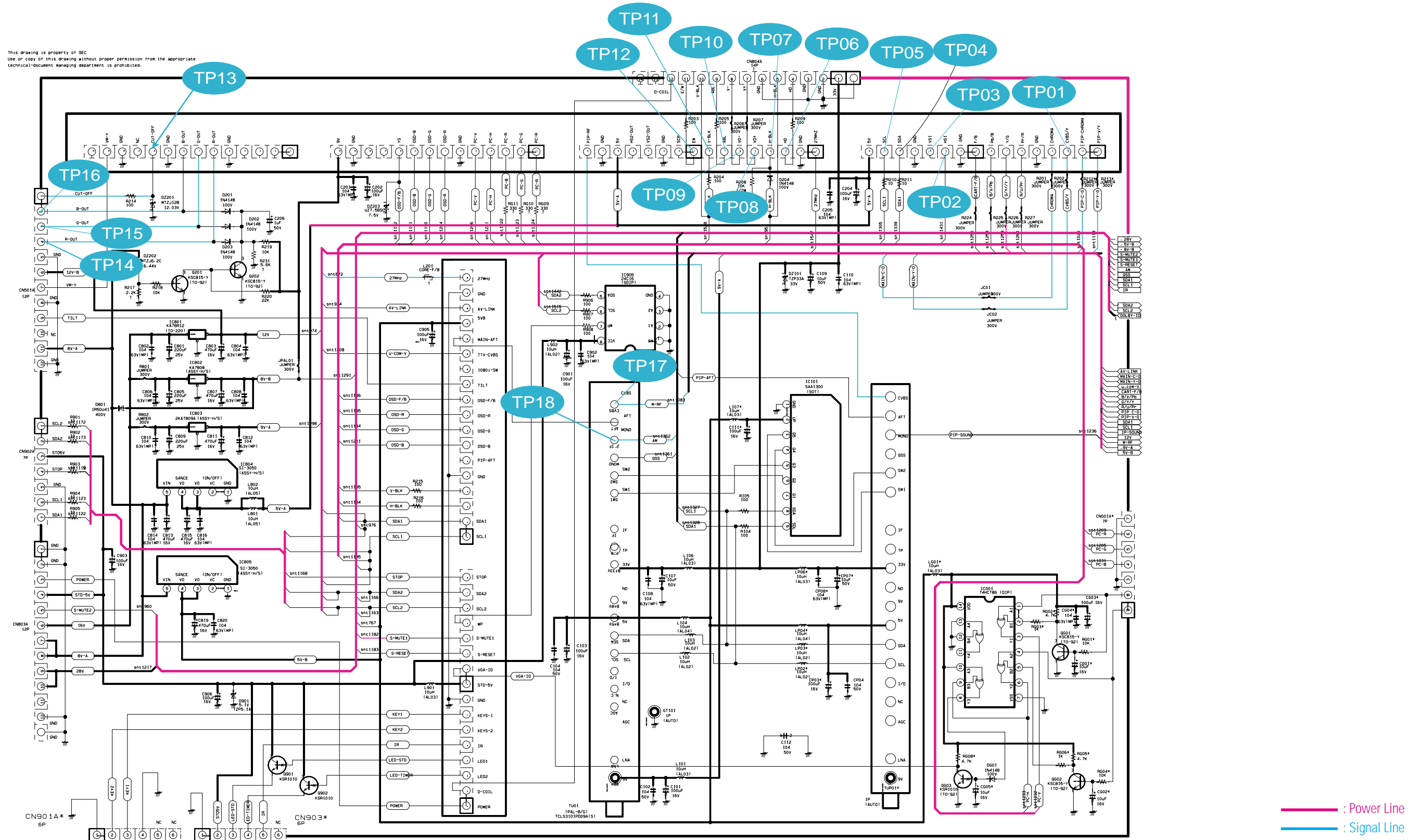
7-4 PCB LAYOUT



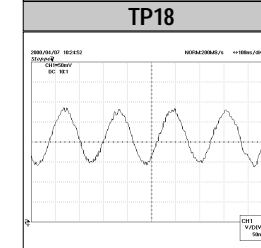
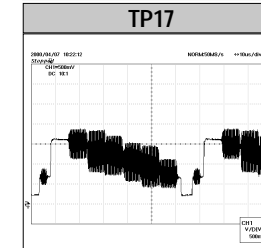
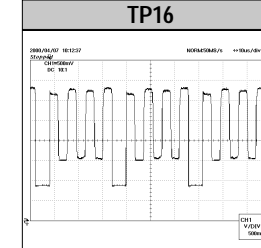
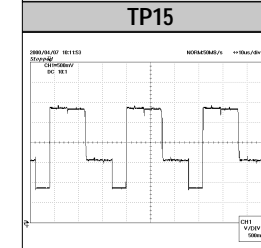
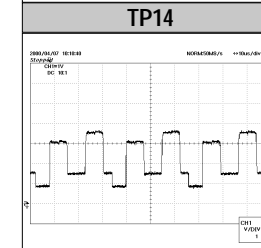
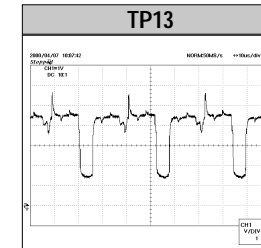
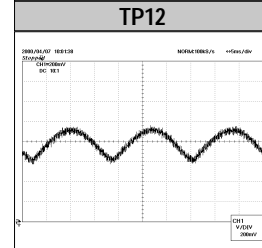
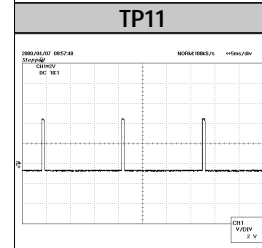
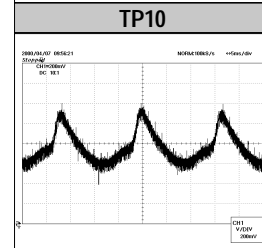
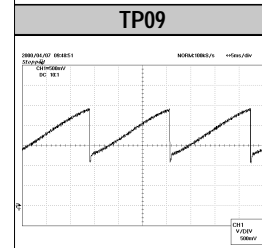
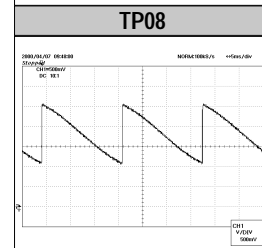
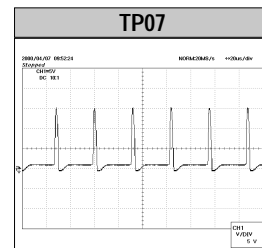
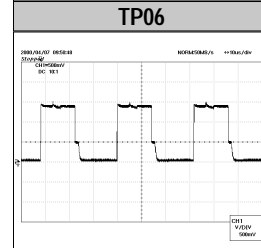
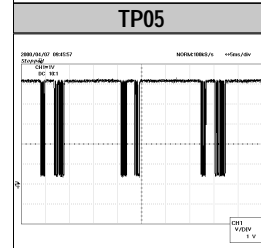
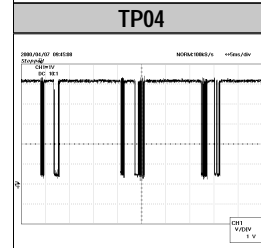
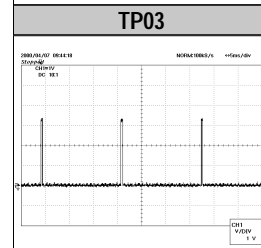
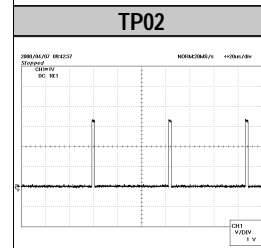
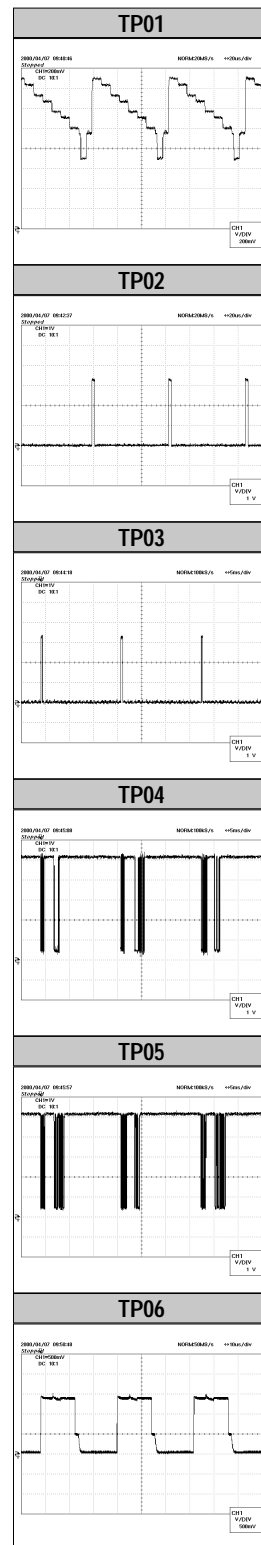
8. Schematic Diagrams

8-1 MAIN 1/3 (RCA)

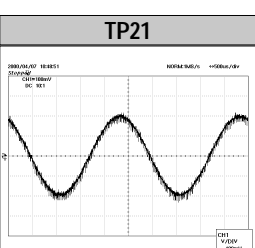
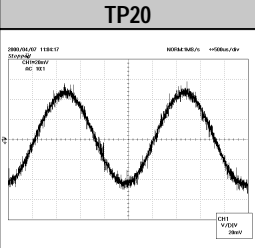
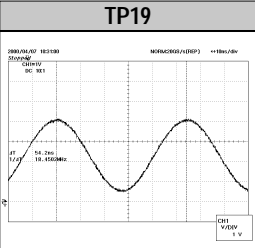
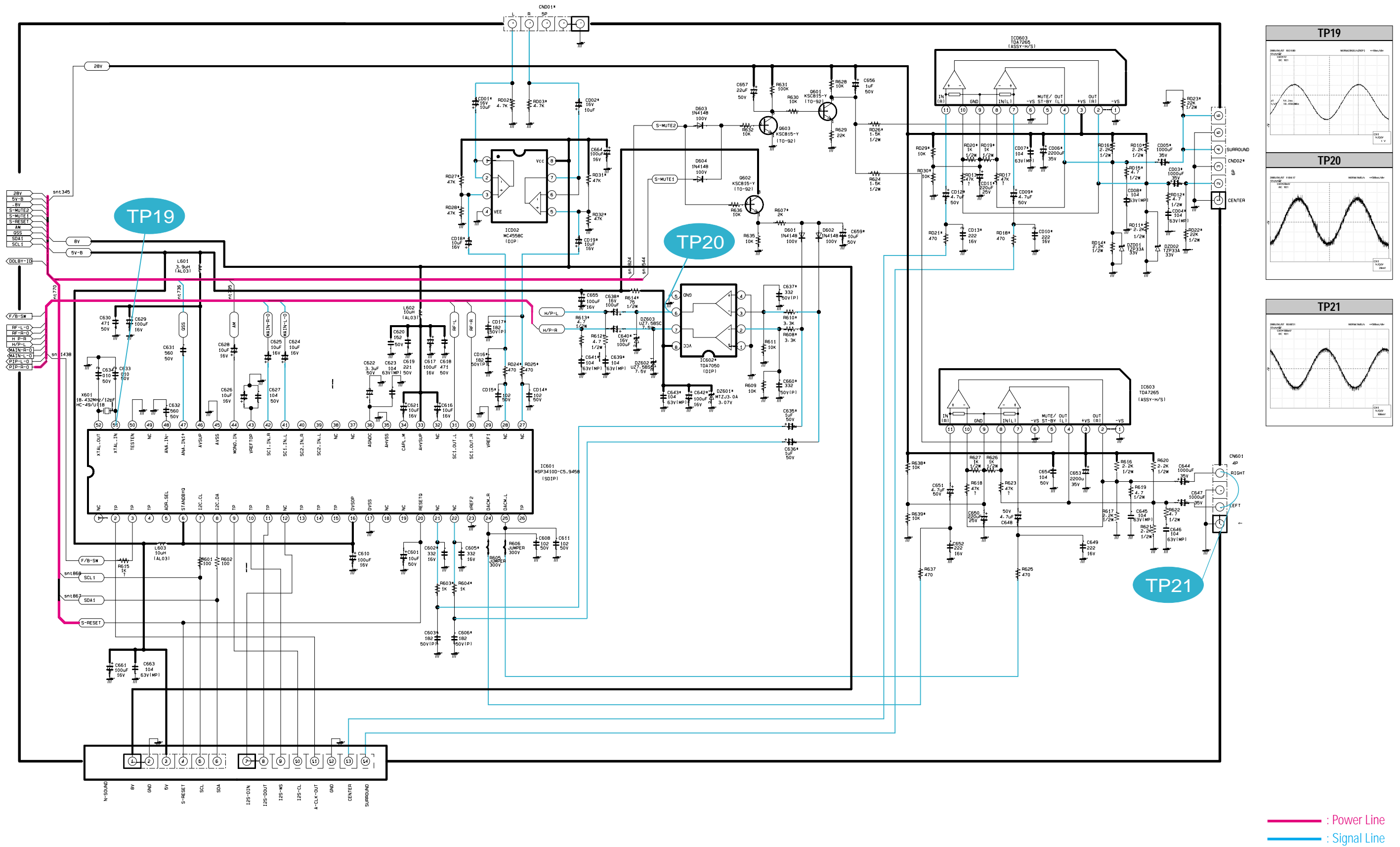
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8-1-1 MAIN 1/3 WAVEFORMS

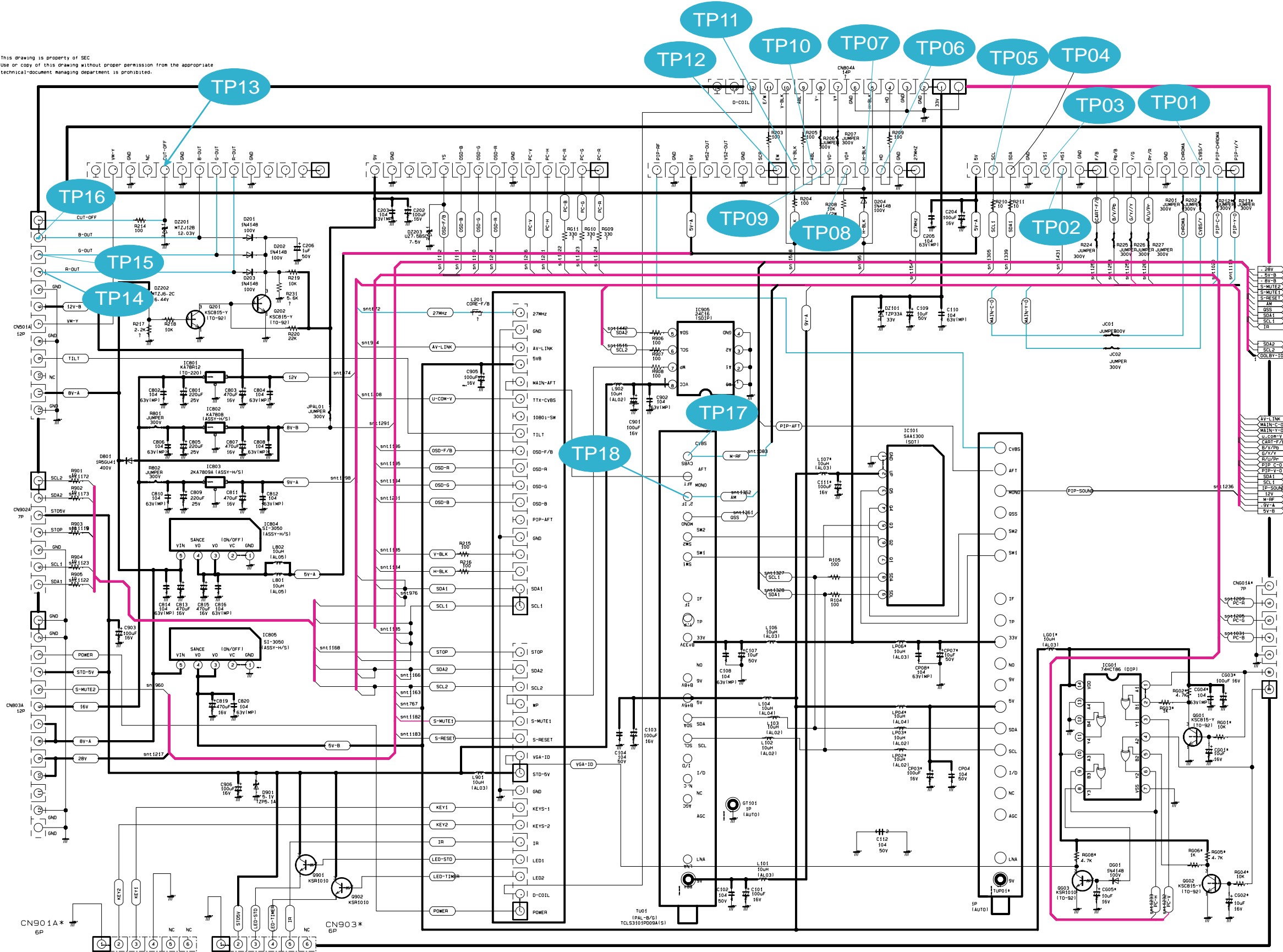


8-2 MAIN 2/3 (RCA)

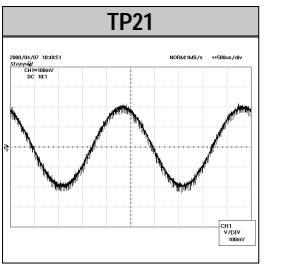
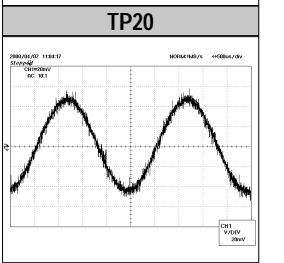
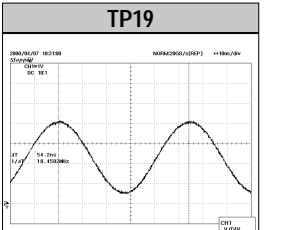
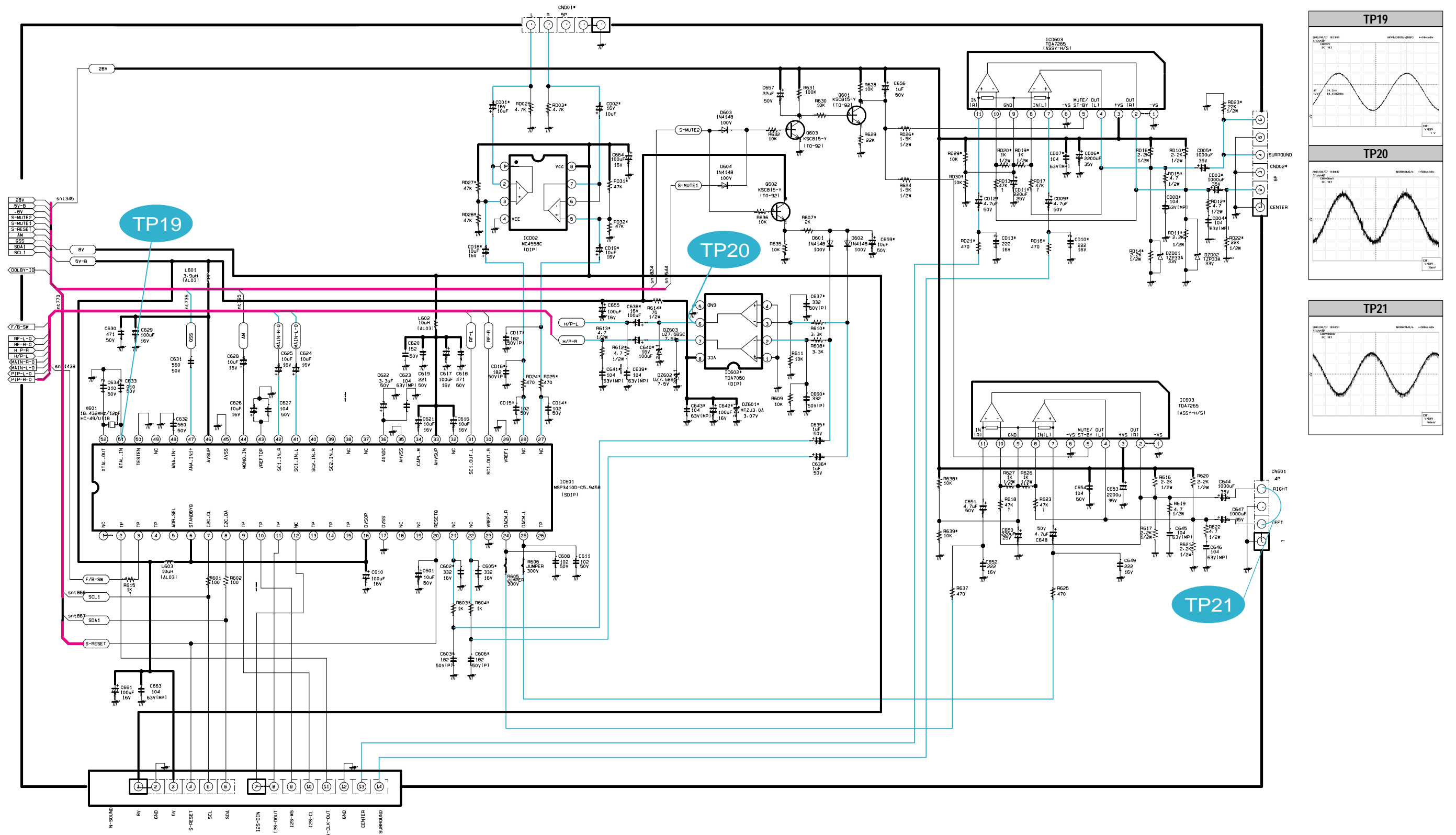


8-4 MAIN (1/3) SCART

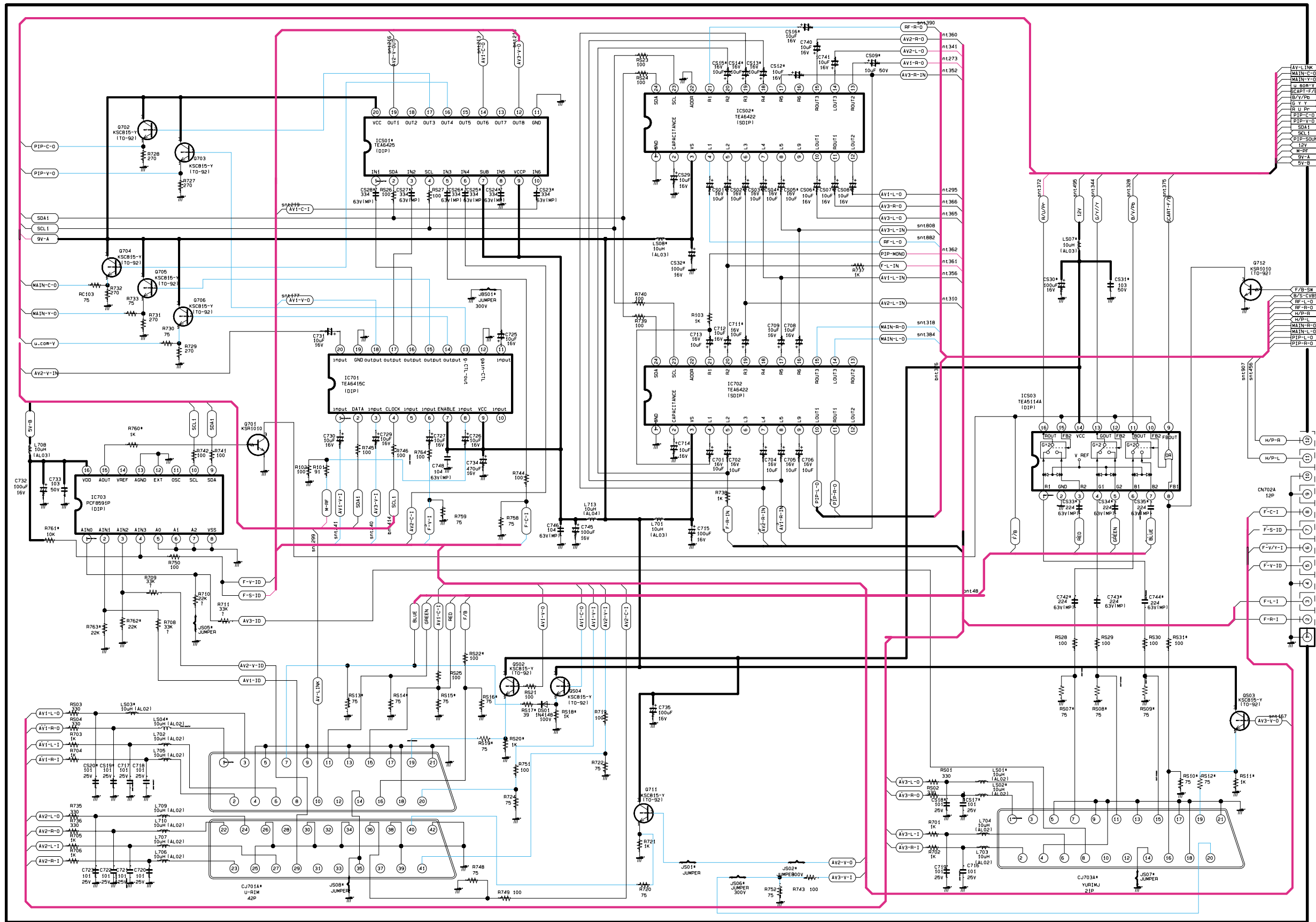
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8-5 MAIN (2/3) SCART

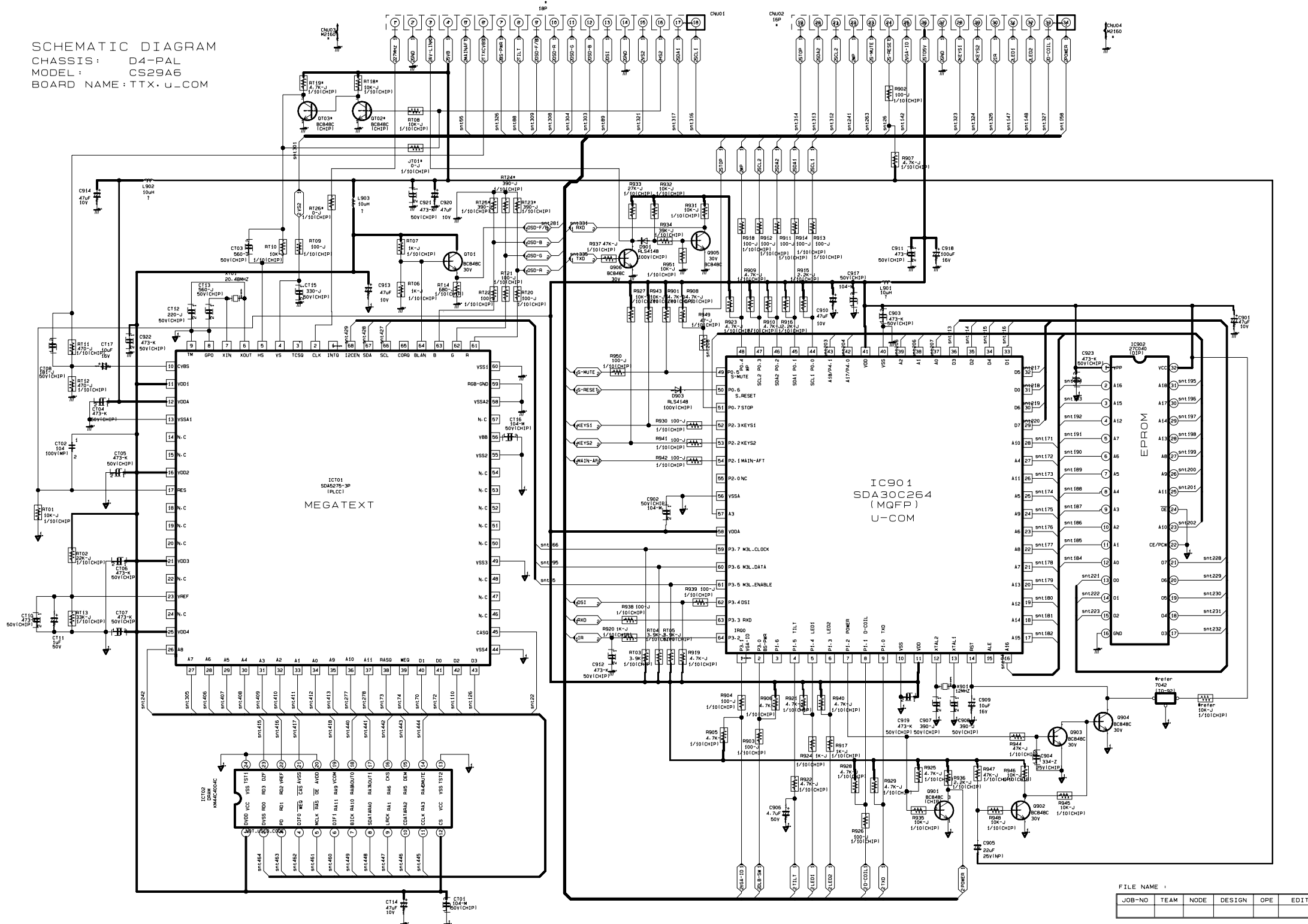


8-6 MAIN (3/3) SCART

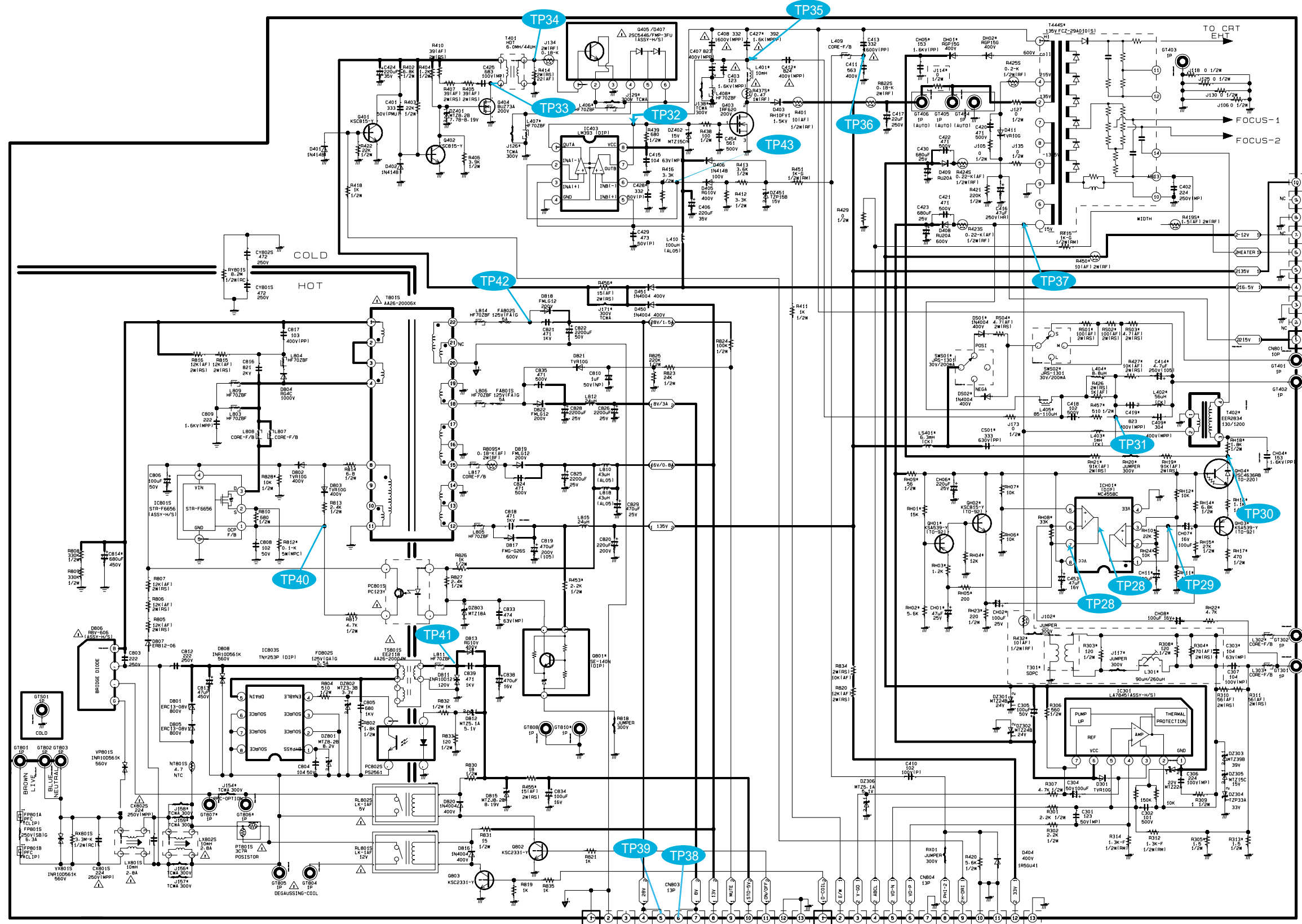


8-7 MICOM

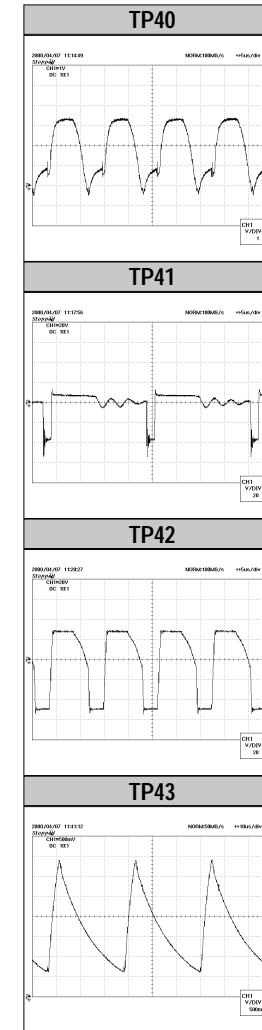
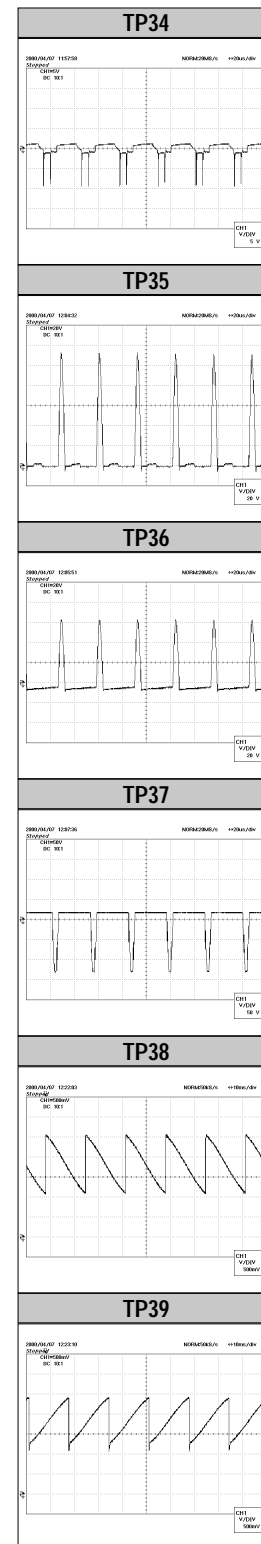
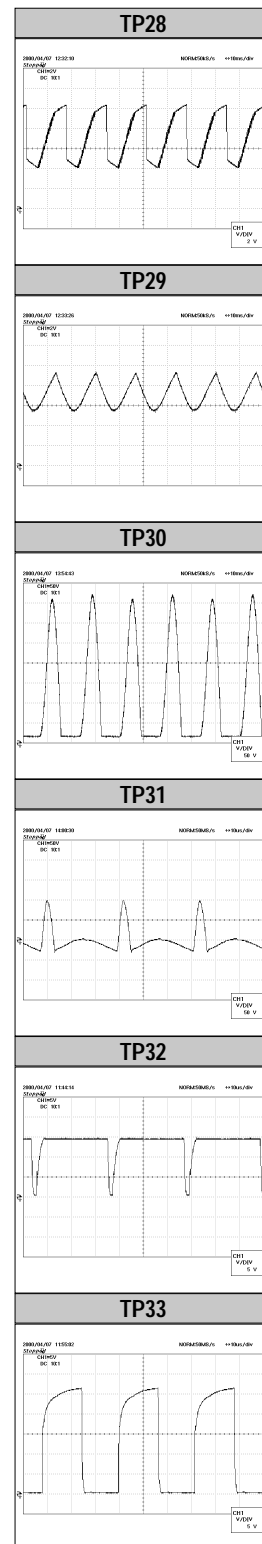
SCHEMATIC DIAGRAM
 CHASSIS: D4-PAL
 MODEL: CS29A6
 BOARD NAME: TTX-U-COM



8-8 POWER

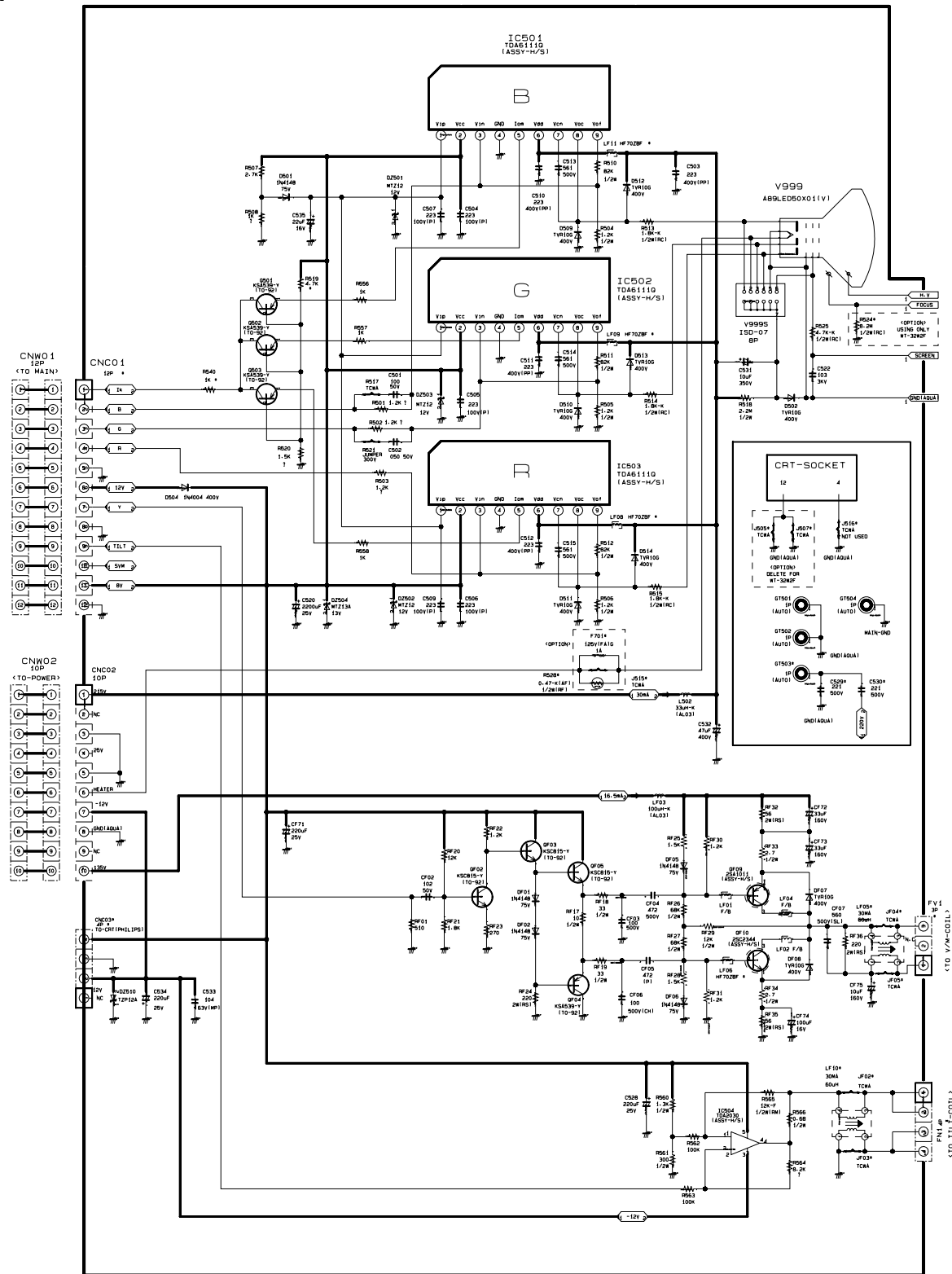


8-8-1 POWER WAVEFORMS

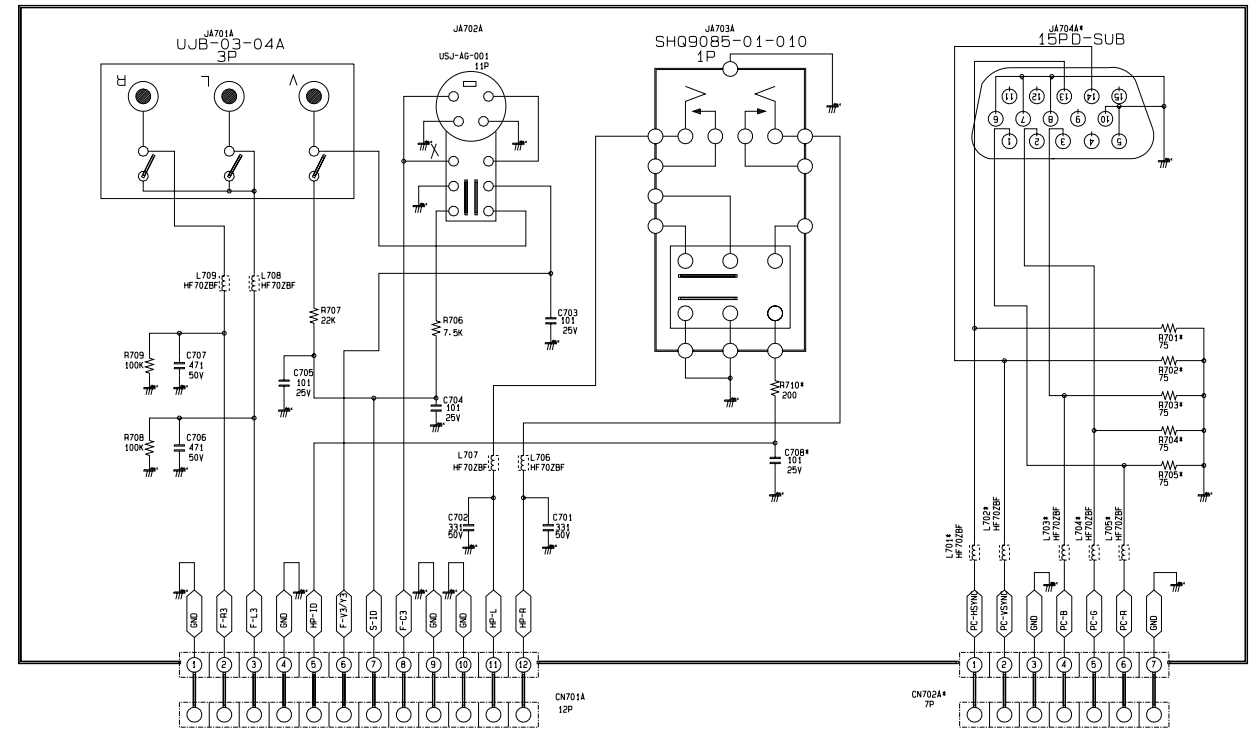


8-9 CRT, SIDE AV

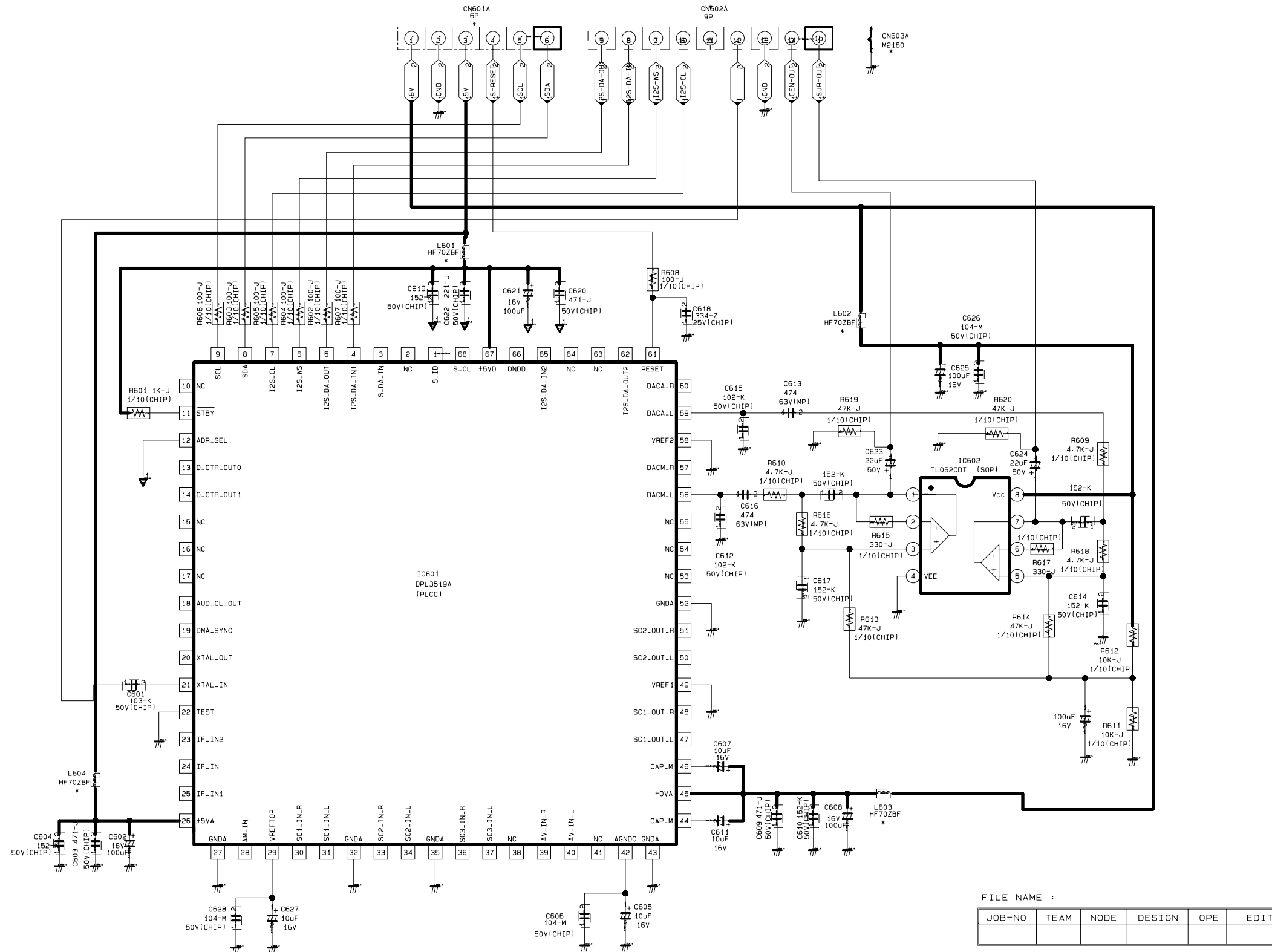
CRT



SIDE AV

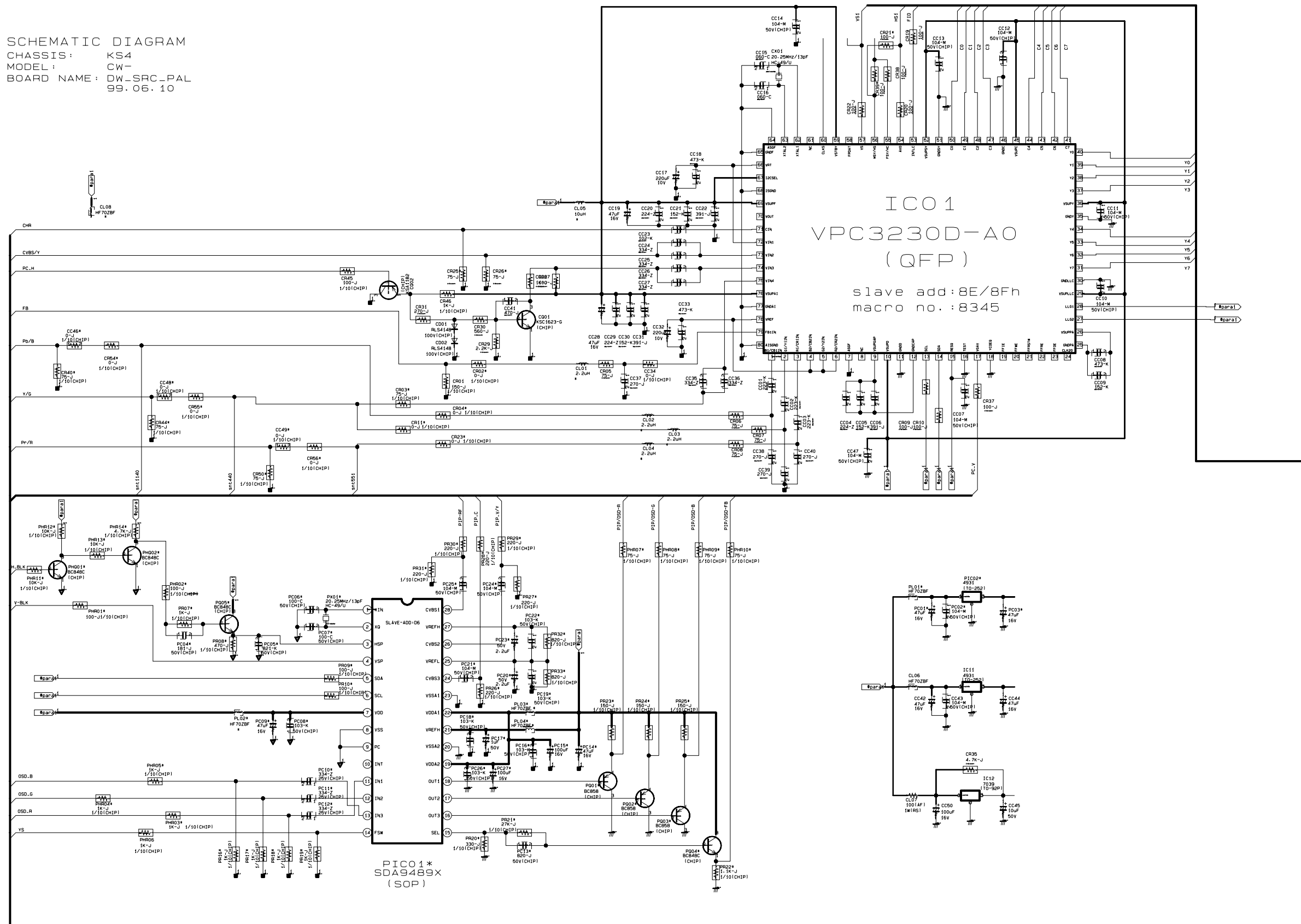


8-10 DOLBY

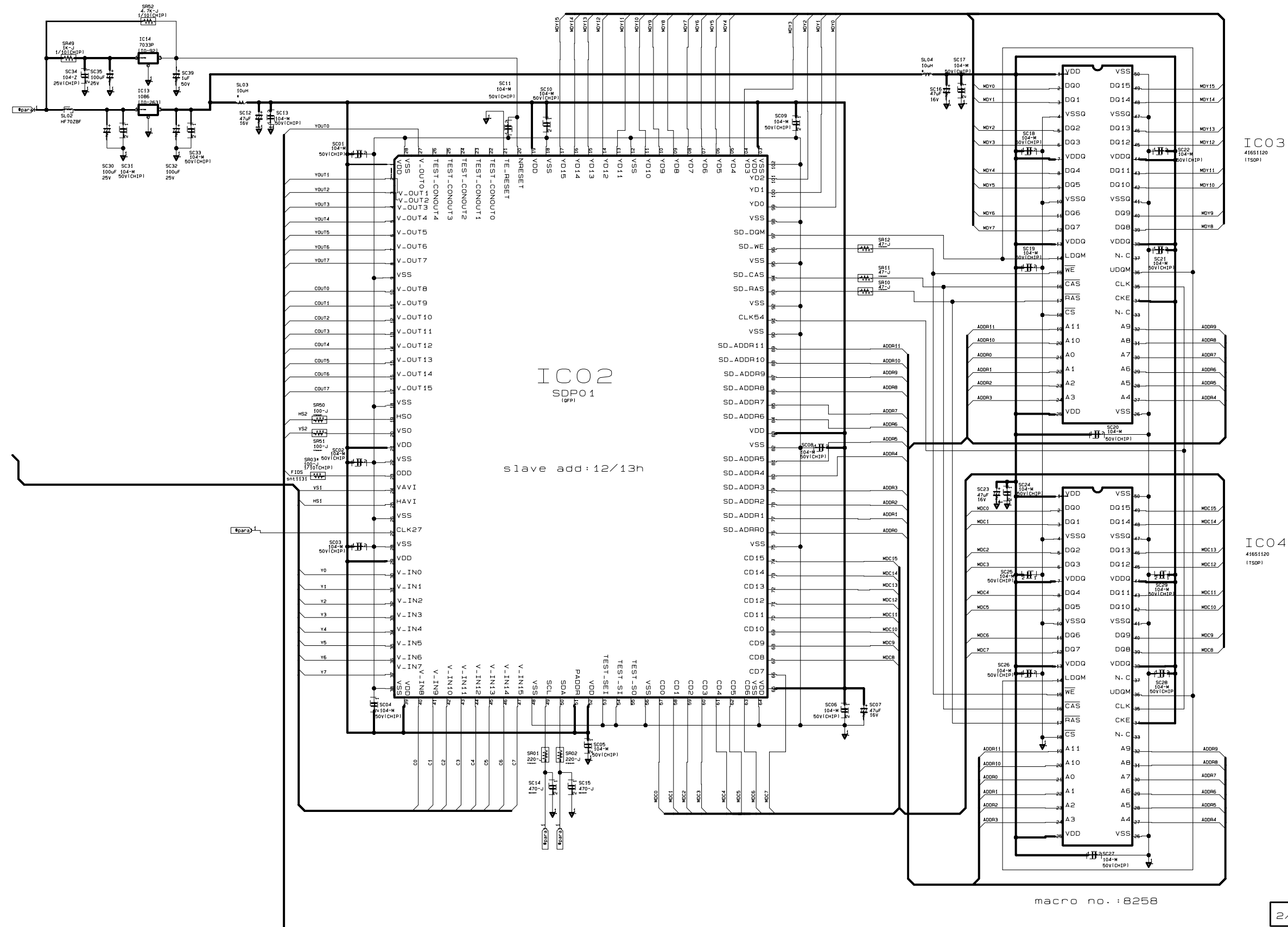


8-11 F-BOX (1/3)

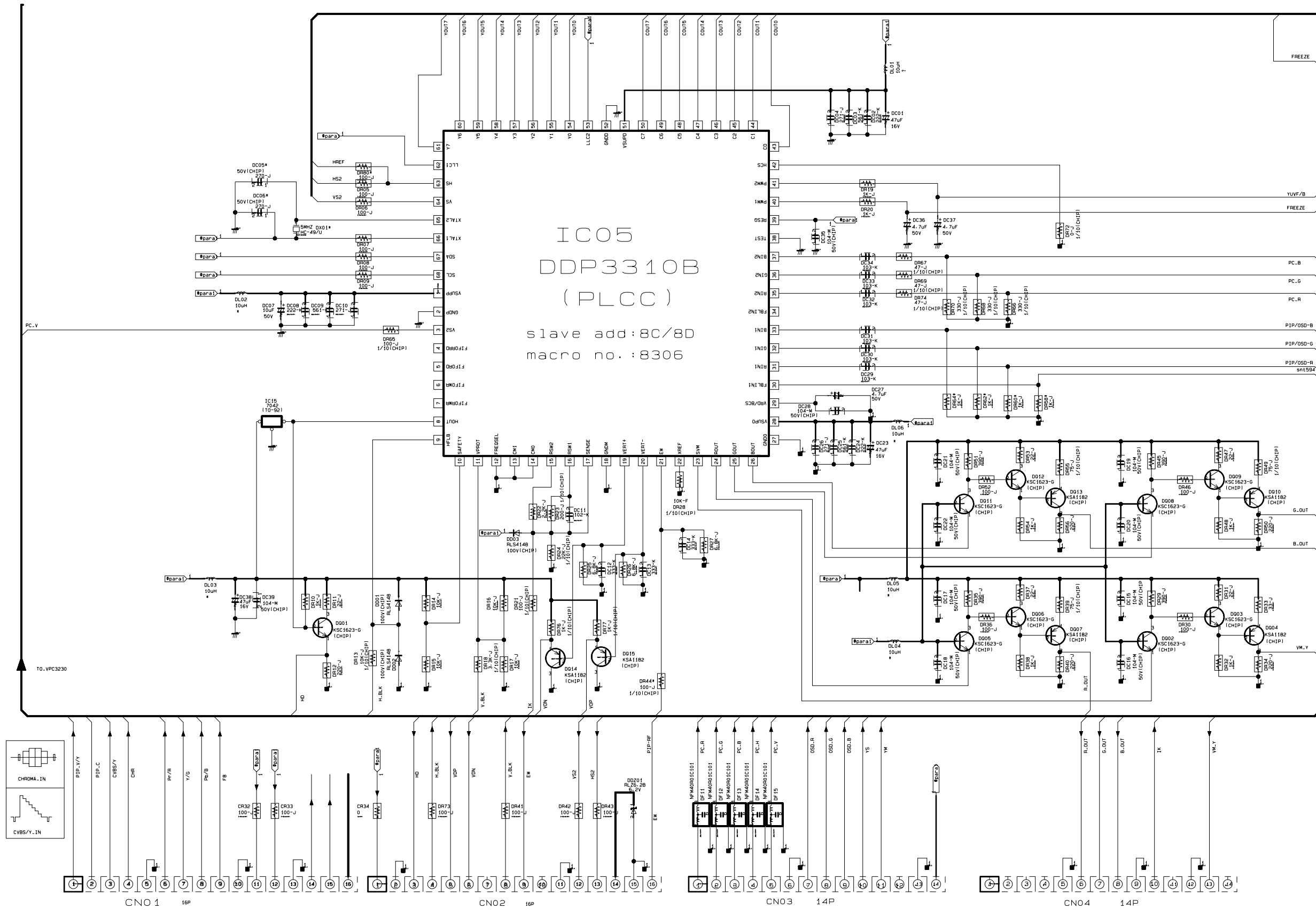
SCHEMATIC DIAGRAM
 CHASSIS: KS4
 MODEL: CW-
 BOARD NAME: DW_SRC_PAL
 99.06.10



8-12 F-BOX(2/3)



8-13 F-BOX(3/3)





ELECTRONICS