

KOS-V1000/V500

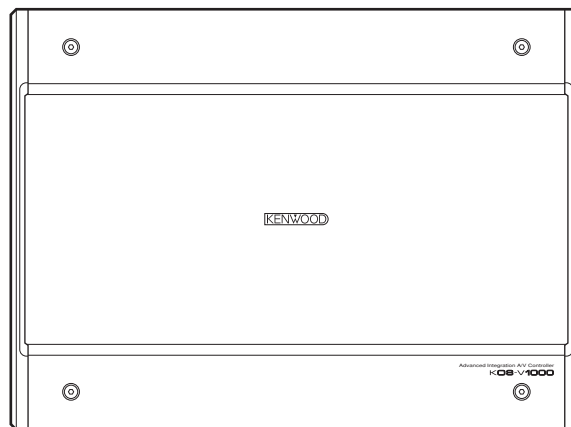
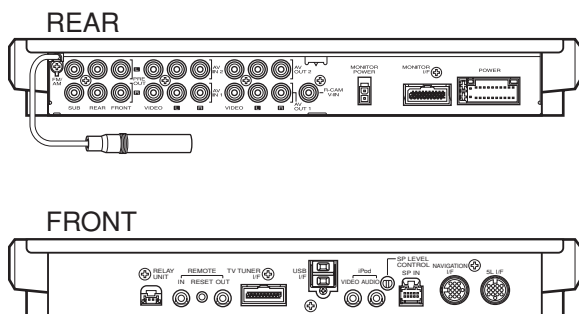
SERVICE MANUAL

KENWOOD

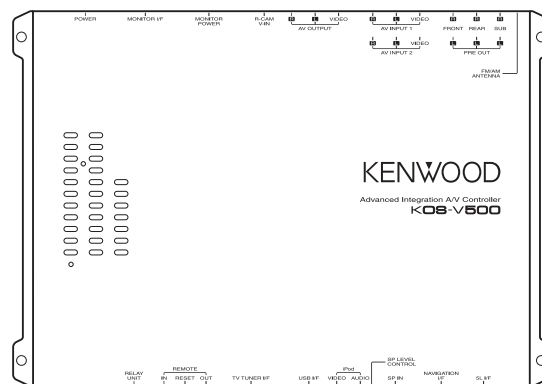
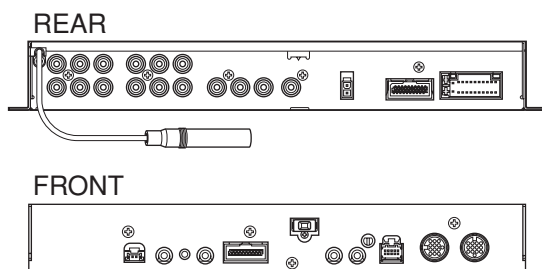
Kenwood Corporation

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B53-0527-00 (N) 521

KOS-V1000



KOS-V500



- DC cord(K,M type)
(E30-6682-05)

(6m)
- DC cord(E type)
(E30-6683-05)

(6m)
- DC cord(K,M type)
(E30-6700-05)

(GND1.5m, BU6m)
- DC cord(E type)
(E30-6699-05)

(GND1.5m, BU6m)
- Cord with plug
(E30-6483-05)

(6m)
- Cord with plug
(E30-6694-05)

(1m)
- Cord with plug
(E30-6697-05)

(6m)
- Cord with plug
(E30-6698-05)

(3.5m)
- Connecting cord assy
(E30-6145-05)

(190mm)
- Remote control sensor assy
(T95-0273-05)

(6m)
- Cord with plug
(E30-6696-05)

(3.5m)
x2 (KOS-V1000)
- Remote controller assy
(A70-2082-15)

RC-DV330
- Size AAA battery
(Not supplied)
- Screw set
(N99-1782-05)
- Screw set
(N99-1782-05)
- Accessories
(KOS-V1000)
(W01-1699-05)
- Antenna adaptor(E type)
(T90-0552-05)

This product uses Lead Free solder.

This product complies with the **RoHS** directive for the European market.

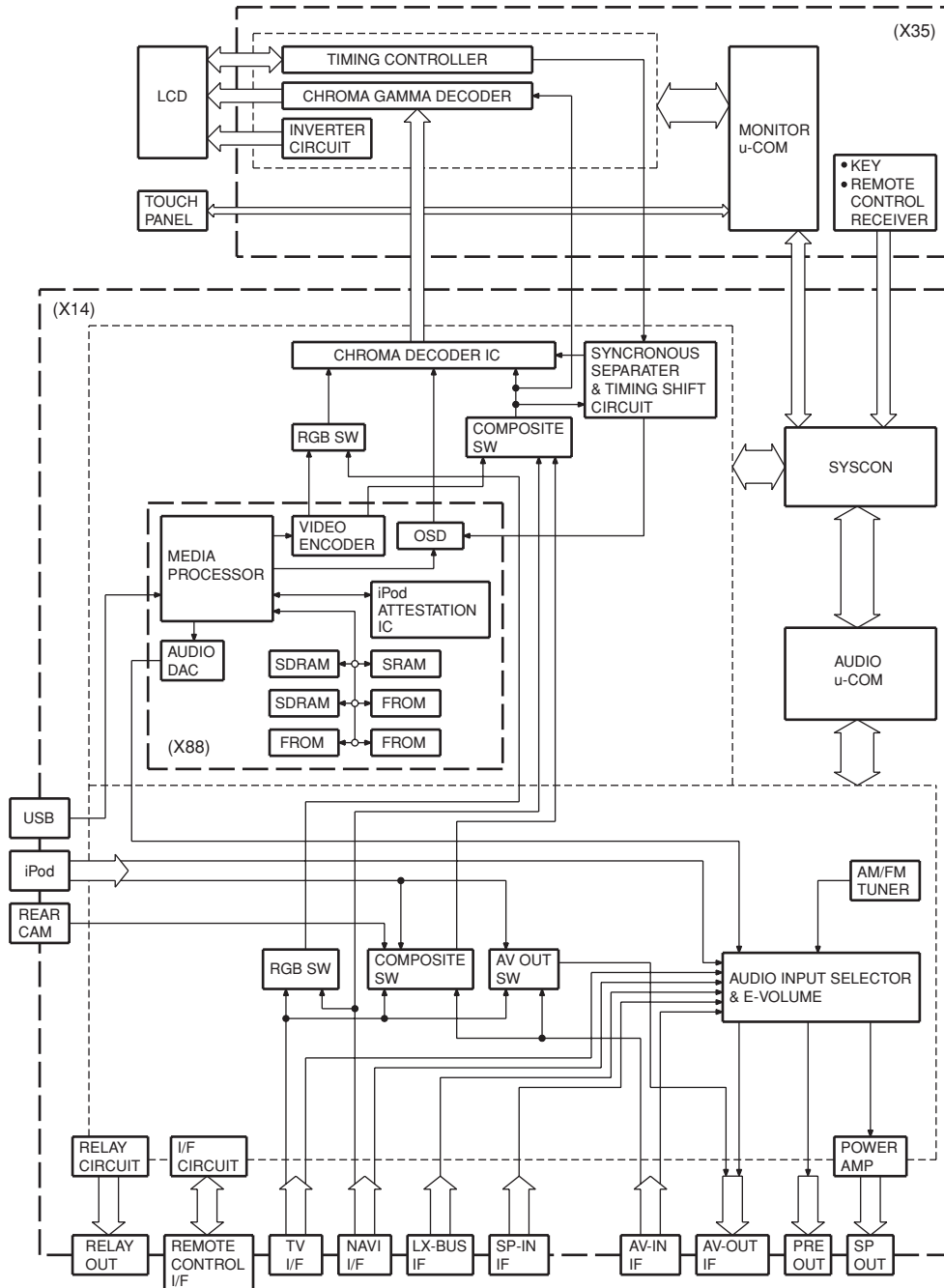


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- The IC106 in the DIGITAL I/O UNIT (X88-2020-10/13) is not a replaceable component. In case of defective of this IC, replace the entire unit (X88-2020-10/13).
- TEST MODE are the same as KVT-719DVD. Please refer to the service manual (KVT-719DVD: B53-0507-00).

BLOCK DIAGRAM

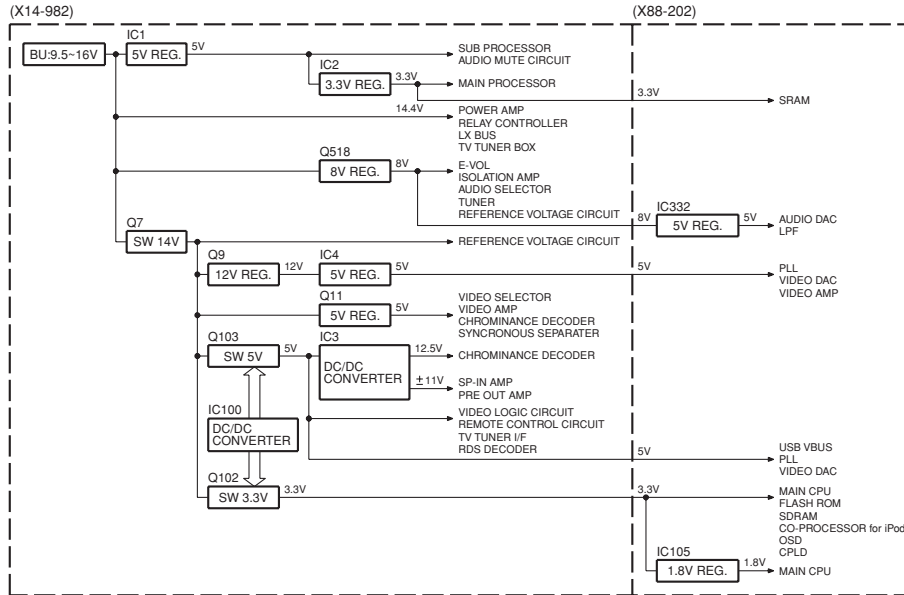
SYSTEM



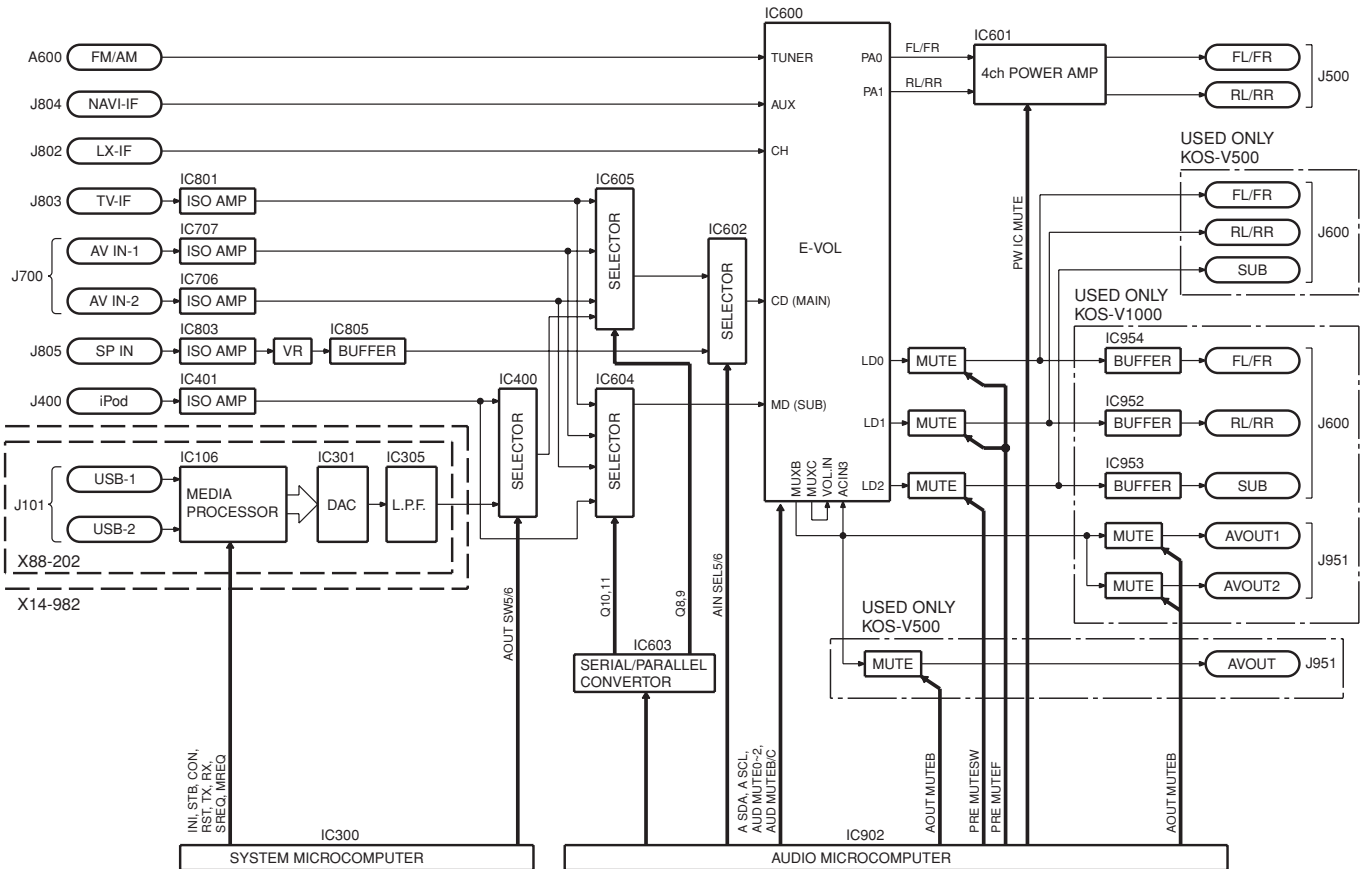
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BLOCK DIAGRAM

POWER SUPPLY

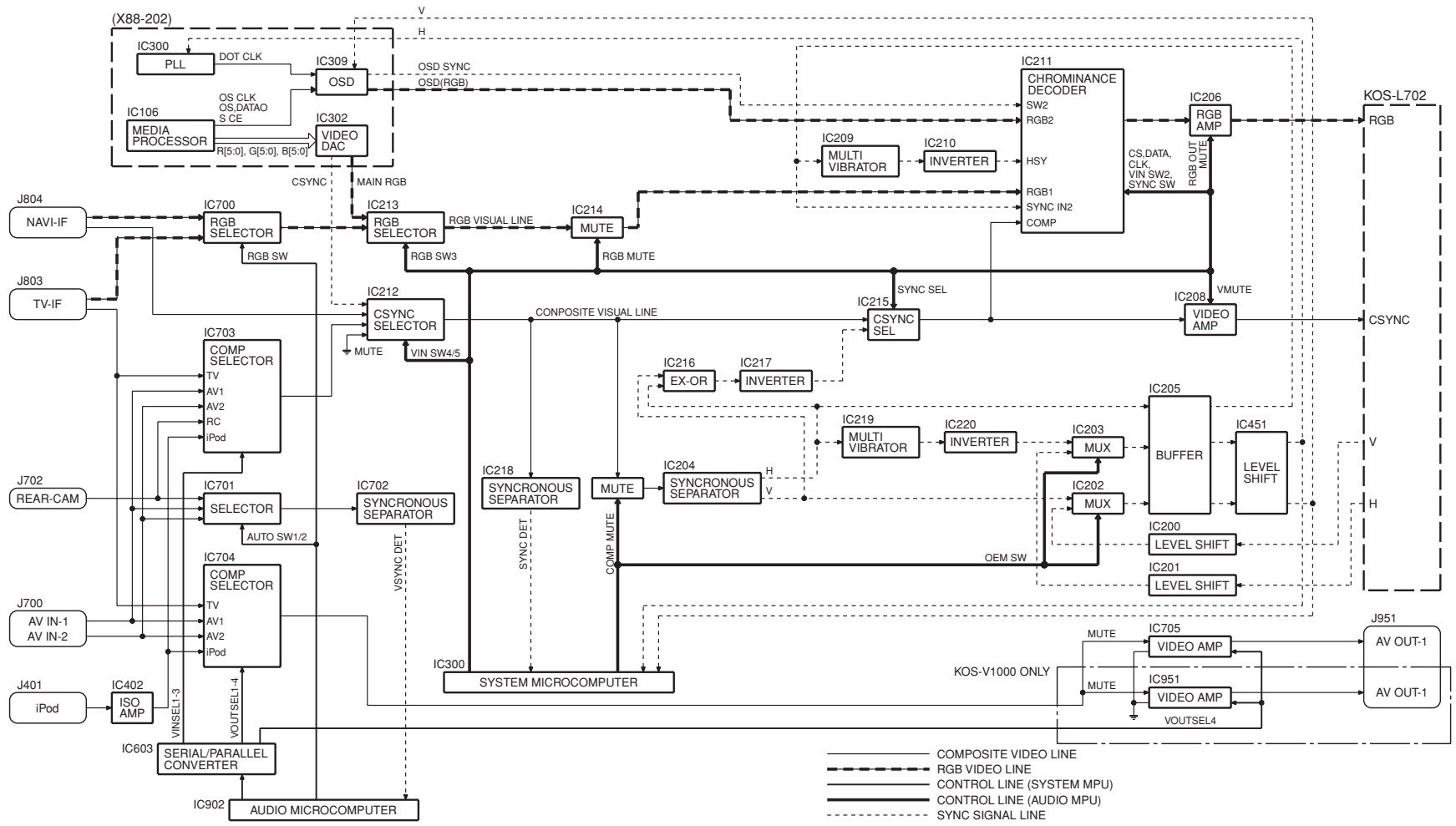


AUDIO



BLOCK DIAGRAM

VISUAL



KOS-V1000/V500

COMPONENTS DESCRIPTION

● VIDEO CONTROL UNIT (X14-982x-xx)

Ref No.	Function	Description
IC1	Power Management	Reference Voltage Regulator (BU5V)
IC2	Power Management	Three terminal Regulator (BU3.3V)
IC3	Power Management	Three Outputs DC/DC Converter from a 3.3V or 5V Supply for designed use in TFT-LCD panels (+11V,-11V,12.5V)
IC4	Voltage Regulator	with Shut Down Switch (Adjustable Voltage) (M_V5V)
IC5,6	Power Management	Three terminal Adjustable Regulator (V-5V,A8V etc)
IC100	Power Management	Dual 5V/3.3V Step-Down DC/DC Converter 550kHz, 2Phase Synchronous Regulators (SW3.3V, SW5V)
IC200,201	2-INPUT OR GATE	level shift 3.3V → 5.0V
IC202,203	2-CHANNEL MULTIPLEXER/ DEMULTIPLEXER	
IC204	Video Signal	Synchronous Signal Separator and Detector, performs Horizontal and Vertical synchronous signal from composit video signals, suitable for car navigation and LCD TV.
IC205	TRIPLE NON-INVERTER	3 Buffer
IC206	Video Driver	3channel 75Ω driver with 6dB amplifier
IC208	Video SW	2-Input 1-Output 1-Circuit Video Switch Clamp, 6dB AMP, 75Ω Driver
IC209	MONOSTABLE MULTIVIBRATOR	
IC210	INVERTER	Buffer
IC211	Video interface	Video interface IC for a TFT-LCD, Automatic identification of color system, Video/chroma signal processor, Two RGB input lines (one for OSD)
IC212	Video SW	5in, 3CTL, 1out
IC213,214	Video SW	2-Input 1-Output 3-Circuit Video Switch
IC215	Video SW	2-Input 1-Output 1-Circuit Video Switch Clamp
IC216	EXCLUSIVE OR GATE	
IC217	2-INPUT NOR GATE	
IC218	Video Signal	No-adjustment Sync Separator
IC219	MONOSTABLE MULTIVIBRATOR	
IC220	2-INPUT NOR GATE	
IC300	Voltage Detectors (RESET IC)	Power monitor for microcomputers and reset for CPUs (for system microcomputer)
IC301	EEPROM	8bit EEPROM for system μ-com
IC302	EEPROM	ROM CORRECTION
IC303	Microcomputer	System Microcomputer
IC304	2-INPUT OR GATE	level shift 3.3V → 5.0V
IC305	TRIPLE NON-INVERTER	3 Buffer
IC400	Differential 4ch Multiplexer	iPod out audio: select from USB_LR or iPod_LR
IC401	ISOLATION AMP	Ground Noise Isolation Amplifier (for iPod Audio out)
IC402	ISOLATION AMP	Single isolation amplifier developed by the video signal (for iPod Video out)
IC451	TRIPLE NON-INVERTER	3 Buffer
IC600	Gain contol (E-VOL)	6-channel multimedia approach
IC601	Audio Power Amplifier	4×50W/4Ω Power Amplifier (for KOS-500)
IC602	Differential 4ch Multiplexer	MAIN2 out audio: select from MAIN1 or SP-IN

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COMPONENTS DESCRIPTION

Ref No.	Function	Description
IC603	Serial/Parallel convertor	12bit Serial IN Parallel OUT Driver
IC604,605	Differential 4ch Multiplexer	SUB out audio: select from TV, AVIN2, iPod or AVIN1 MAIN1 out audio: select from TV, AVIN2, iPodUSB, or AVIN1
IC606	Tuner	RDS Demodulator
IC700	Video SW	2-Input 1-Output 3-Circuit Video Switch
IC701	Video SW	3in, 2CTL, 1out
IC702	Video Signal	No-adjustment Sync Separator
IC703,704	Video SW	5in, 3CTL, 1out
IC705	Video SW	2-Input 1-Output 1-Circuit Video Switch Clamp, 6dB AMP, 75Ω Driver
IC706,707	ISOLATION AMP	Ground Noise Isolation Amplifier (for iPod Audio out)
IC800	2-INPUT AND GATE	pass remote control code "active=L"
IC801	ISOLATION AMP	Ground Noise Isolation Amplifier (for iPod Audio out)
IC802	2-INPUT AND GATE	remote control for NAVI
IC803	OP AMP	Dual operational amplifier (SP IN)
IC804	OP AMP	Dual low noise operational amplifier(SP IN) (for KOS-500)
IC805	OP AMP	Dual operational amplifier (SP IN)
IC806	2-INPUT AND GATE	pass remote control code "active=L"
IC807	2-INPUT OR GATE	level shift 3.3V → 5.0V
IC900	EEPROM	ROM CORRECTION
IC901	QUAD 2-INPUT AND GATE	logic circuit for start up audio microcomputer
IC902	Microcomputer	Audio Microcomputer
IC903	Voltage Detectors (RESET IC)	Power monitor for microcomputers and reset for CPUs (for audio microcomputer)
IC951	Video SW	2-Input 1-Output 1-Circuit Video Switch Clamp, 6dB AMP, 75Ω Driver
IC952~954	OP AMP	Dual operational amplifier (PRE_OUT)
IC955	OP AMP	Dual low noise operational amplifier (1/2 Vcc for KOS-1000)
IC956	OP AMP	Single-Supply Operational Amplifier
IC957	DUAL BUS BUFFER NON INVERTED, 3-STATE OUTPUTS	logic circuit for remote control
Q1	Detection Switch	Transistor for surgeptotector
Q2	Detection Switch	Transistor for BU_DET detection
Q3	Detection Switch	Transistor for ACC_DET detection
Q4	Control Switch	Transistor for P_ON control circuit, SW14V
Q5,6	Control Switch	Transistor for SW14V REG circuit
Q7	Power Switch	P Channel Power MOSFET. Low drain-source ON resistance (SW14V)
Q9	POWER TR	Transistor for 12V REG circuit
Q10	Detection Switch	Transistor for 12V REG circuit
Q11	POWER TR	For Power Amplification (V-5V)
Q12	Detection Switch	Transistor for SP active detection
Q21	Control Switch	Transistor for PON control circuit, A8V
Q22	Control Switch	Transistor for PON control circuit, A8V
Q101	Control Switch	Transistor for POWER_START control of DC/DC CONV

COMPONENTS DESCRIPTION

Ref No.	Function	Description
Q102,103	High Speed Power Switch	Power MOS FET with Schottky Barrier Diode (SW3.3V, SW5V)
Q104	Control Switch	Transistor for POWER_START control of DC/DC CONV
Q200	Control Switch	Transistor for NTSC/PAL select cntrol
Q201	Control Switch	Transistor for NTSC/PAL select cntrol
Q203	Control Switch	Transistor for OEM_SW
Q205	Driver	Transistor for SYNC drive
Q208	Control Switch	Transistor for level shift control of EP-SYNC
Q209	Control Switch	Transistor for SYNC drive
Q210	Driver	Transistor for COMP_MUTE control
Q211	Driver	Transistor for level shift control of SYNC
Q300	Detection Switch	Transistor for RESET detection circuit
Q301	Detection Switch	Transistor for RESET detection circuit
Q400,401	Control Switch	Transistor for USB/iPod select cntrol
Q500	Detection Switch	Transistor for REVERSE detection circuit
Q501	Detection Switch	Transistor for Park_DET detection circuit
Q502	Detection Switch	Transistor for ILLUMI_DET detection circuit
Q503	Detection Switch	Transistor for BU_DET detection circuit
Q506	Medium Power TR	Transistor for P_CON control circuit
Q507	Control Switch	Transistor for P_CON control circuit
Q508	Control Switch	Transistor for P_CON control circuit
Q509	Control Switch	Transistor for P_CON control circuit
Q510	Medium Power TR	Transistor for ANT_CON control circuit
Q511	Control Switch	Transistor for ANT_CON control circuit
Q512	Control Switch	Transistor for EXT_AMP control circuit
Q518	POWER TR	For Power Amplification(A8V)
Q522	Control Switch	Transistor for stop control when over current is detected, RELAY1 circuit
Q523	Control Switch	Transistor for RELAY1 control circuit
Q524	POWER TR	Transistor for RELAY detection & control circuit
Q525	Control Switch	Transistor for over current detection of RELAY1 control circuit
Q526	Detection Switch	Transistor for RELAY_DET1 detection circuit
Q527	Control Switch	Transistor for RELAY1 control circuit
Q529	Control Switch	Transistor for RELAY2 control circuit
Q530	POWER TR	Transistor for RELAY detection & control circuit
Q531	Control Switch	Transistor for over current detection of RELAY2 control circuit
Q532	Detection Switch	Transistor for RELAY_DET2 detection circuit
Q533	Control Switch	Transistor for RELAY2 control circuit
Q600,601	Control Switch	Transistor for selsct MAIN2 out audio
Q602	Mute Switch	Transistor for FRONTL of PREOUT_MUTE circuit
Q603	Muting Driver	Transistor for PRE_OUT_MUTE control circuit, FRONTL /R & REARL/R (Q603)
Q604	Mute Switch	Transistor for FRONTR of PREOUT_MUTE circuit
Q605	Mute Switch	Transistor for REARL of PREOUT_MUTE circuit

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COMPONENTS DESCRIPTION

Ref No.	Function	Description
Q606	Mute Switch	Transistor for REARR of PREOUT_MUTE circuit
Q607	Mute Switch	Transistor for SWL of PREOUT_MUTE circuit
Q608	Mute Driver	Transistor for PREOUT_MUTE control circuit, SWL/R
Q609	Mute Switch	Transistor for SWR of PREOUT_MUTE circuit
Q610	Control Switch	Transistor for Tunner Power control circuit, AM+B
Q611	POWER TR	For General Purpose Amplification (AM+B)
Q700	Mute Switch	Transistor for AVOUT(R or 1R) of PREOUT_MUTE circuit
Q701	Mute Driver	Transistor for AVOUT_MUTE control circuit, AVOUTL/R or AVOUT1L/1R & AVOUT2L/2R
Q702	Mute Switch	Transistor for AVOUT (L or 1L) of PREOUT_MUTE circuit
Q703	Control Switch	Transistor for mute control of 1/2 Vcc circuit when is off
Q704,705	Control Switch	Transistor for RIP_MUTE control circuit
Q900	Control Switch	Transistor for MUTE control when A_RESET is active
Q901,902	Detection Switch	Transistor for RESET detection circuit
Q903	Control Switch	Transistor for A_RESET control
Q904	Detection Switch	Transistor for RESET detection circuit
Q906	Control Switch	Transistor for MUTE control when BU_DET SUB is detected
Q951	Control Switch	Transistor for stop control when over current is detected, RELAY3 circuit
Q952	Control Switch	Transistor for RELAY3 control circuit
Q953	POWER TR	Transistor for RELAY detection & control circuit
Q954	Control Switch	Transistor for over current detection of RELAY3 control circuit
Q955	Detection Switch	Transistor for RELAY_DET3 detection circuit
Q956	Control Switch	Transistor for RELAY3 control circuit
Q957	Control Switch	Transistor for stop control when over current is detected, RELAY4 circuit
Q958	Control Switch	Transistor for RELAY4 control circuit
Q959	POWER TR	Transistor for RELAY detection & control circuit
Q960	Control Switch	Transistor for over current detection of RELAY4 control circuit
Q961	Detection Switch	Transistor for RELAY_DET4 detection circuit
Q962	Control Switch	Transistor for RELAY4 control circuit
Q963	Mute Switch	Transistor for AVOUT2R of PREOUT_MUTE circuit
Q964	Mute Switch	Transistor for AVOUT2L of PREOUT_MUTE circuit

MICROCOMPUTER'S TERMINAL DESCRIPTION

● System μ -com: 703261YGC315A (X14-982: IC303)

Pin No.	Pin Name	Application	I/O	Note
1	AVREF0	Power supply terminal	-	
2	AVSS	GND	-	
3	V_MUTE	Mute signal of composite video signal for monitor	O	
4	NC	(Not used)	O	
5	AVREF	Reference voltage input	-	
6	NC	(Not used)	O	
7	CIR_BU_DET	Backup detection signal for X88	O	
8	FLMD0	(Used only for software update)	I	
9	VDD	Power supply terminal	-	
10	REGC	Capacitor connection terminal for reducing power supply noise	-	
11	VSS	GND	-	
12	X1	Inverter input terminal for system clock [4.953MHz]	-	
13	X2	Inverter output terminal for system clock [4.953MHz]	-	
14	RESET	System reset input	I	
15	XT1	Inverter input terminal for sub clock [32.768kHz]	-	
16	XT2	Inverter output terminal for sub clock [32.768kHz]	-	
17	PANEL_DET	Monitor connection detection	I	
18	VSY (VD)	V-SYNC input	I	
19	BU_DET	Backup detection	I	
20	OSD_MODE	OSD circuit switching control signal	O	
21	ACC_DET	ACC detection	I	
22	γ _CS	CS signal to Chroma γ -IC	O	
23	γ _DATA	DATA signal to Chroma γ -IC	O	
24	γ _CLK	CLOCK signal to Chroma γ -IC	O	
25	CIR_TX	DATA signal to media processor	O	
26	CIR_RX	DATA signal from media processor	I	
27	CIR_INI	Initialization signal for media processor	O	
28	CIR_RESET	Reset signal for media processor	O	
29	CIR_STB	Standby signal for media processor	I	
30	CIR_MREQ	Request signal to media processor	O	
31	CIR_SREQ	Request signal from media processor	I	
32	CIR_CON	Media processor operation permission	O	
33	EVSS	GND	-	
34	EVDD	Power supply terminal	-	
35	SDA	DATA I/O signal with E2PROM	I/O	
36	SCL	CLOCK signal to E2PROM	O	
37	NC	(Not used)	O	
38	PLL_EN	PLL IC enable signal	O	
39	PGOOD	Error detection in power supply voltage to DC/DC converter IC	I	
40	SYNC_DET	Detection of composite video signal in monitor output	I	

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MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Application	I/O	Note
41	NC	(Not used)	O	
42	MON_SYS_ON	Power ON/OFF control for monitor μ -com	O	
43	MON_S_DATA	DATA signal to monitor μ -com	O	
44	MON_M_DATA	Communication with monitor μ -com	I	
45	MON_RESET	Monitor μ -com reset	O	
46	POWER_START	DC/DC converter IC ON/OFF control	O	
47	POWER_PWM	Reference CLOCK for external synchronization of DC/DC converter IC	O	
48	PON	Main power supply ON/OFF control	O	
49	REMO_PWM	Remote control code conversion signal of touch panel signal	O	
50	HSY (HD)	H-SYNC input	I	
51	PLL_MDATA	Control DATA signal to PLL IC	O	
52	PLL_CLK	Control CLOCK signal to PLL IC	O	
53	SYS_SDATA	DATA signal from AUDIO μ -com	I	
54	SYS_MDATA	DATA signal to AUDIO μ -com	O	
55	SYS_CLK	Communication CLOCK signal with AUDIO μ -com	O	
56	SYS_SREQ	Request signal from AUDIO μ -com	I	
57	TYPE3	Model detection terminal	O	500: Fixed to Lo, 1000: Fixed to High
58	MON_POWER	Monitor power KEY ON/OFF input	I	
59	SYS_MREQ	Request signal to AUDIO μ -com	O	
60	SYS_ON	AUDIO μ -com ON/OFF control	O	
61	NC	(Not used)	O	
62	TYPE1	Model detection terminal	I	Not monitored in KOS
63	TYPE2	Model detection terminal	I	KOS is fixed to High
64	NTSC_PAL	NTSC/PAL determination input	I	
65~67	NC	(Not used)	O	
68	REMO_POWSW	System ON/OFF control input from external remote control ASSY (not used)	I	
69	BVSS	GND	-	
70	BVDD	Power supply terminal	-	
71	WRT_E2P	Used when writing E2PROM	I	
72	RGBOUT_MUTE	RGB output mute signal to monitor	O	
73,74	NC	(Not used)	O	
75	SYNC_SEL	Composite switching signal to monitor output	O	
76	FLMD1	(Used only for software update)	I	
77	REMO_SEL	Remote control output switching signal	O	
78	OEM_SW	SYNC signal switching control	O	
79	VIN_SW2	COMP/RGB input switching for Chroma γ IC	O	
80	SYNC_SW2	SYNC input switching for Chroma γ IC	O	
81	RGB_SW3	RGB video signal selector control	O	
82	VIN_SW4	RGB video signal selector control	O	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Application	I/O	Note
83	VIN_SW5	Composite video signal switching control	O	
84	COMP_MUTE	Mute control of input unit in sync separation IC for composite video signal	O	
85	RGB_MUTE	Mute control of input unit in Chroma γ IC for RGB video signal	O	
86	AOUT_SW5	Audio signal selector control	O	
87	AOUT_SW6	Audio signal selector control	O	
88,89	NC	(Not used)	O	
90	VR	For PHASE/TINT automatic adjustment	I	
91	VG	For RGB level automatic adjustment	I	
92	VB	For PHASE/TINT automatic adjustment	I	
93	NC	(Not used)	O	
94	NT_PAL	NTSC/PAL switching signal for monitor	O	
95~99	NC	(Not used)	O	
100	TYPE0	Destination (Voltage reading)	I	

Setup of destination

MODEL	Category	Destination	TYPE3	TYPE2	TYPE1	TYPE0
KOS-V	500	K	0	1	0	*
		E	0	1	0	*
		M	0	1	0	*
	1000	K	1	1	0	*
		E	1	1	0	*
		M	1	1	0	*

TYPE0 Setup voltage

Destination	μ -com setup value		
	min	Mid point voltage	max
K	0.00	0.00	0.41
E	0.42	0.83	1.23
M	1.24	1.65	2.06

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MICROCOMPUTER'S TERMINAL DESCRIPTION

SW Logic

● To MONITOR(OP_MONITOR or OEM_MONITOR)

	Name of control line	γ _VIN_SW2	γ _SYNC_SW2	RGB_SW3	VIN_SW4	VIN_SW5	COMP_MUTE	RGB_MUTE	OEM_SW
	Terminal number	79	80	81	82	83	84	85	78
OP_MONITOR	Full_GRAPHIC	1	0	0	0	0	0	0	1
	iPod_VIDEO	0	0	0	1	0	0	1	1
	AVIN/VIN	0	0	0	1	0	0	1	1
	TV (Other than SECAM)	0	0	0	1	0	0	1	1
	TV (SECAM)	1	0	1	1	0	0	0	1
	NAVI	1	0	1	0	1	0	0	1
	PARK_OFF	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
	REVERS_OFF	0	0	0	1	0	0	1	1
	NAVI_OFF	1	0	1	0	1	0	0	1
OEM_MONITOR	Full_GRAPHIC	1	1	0	0	0	0	0	0
	iPod_VIDEO	0	0	0	1	0	0	1	0
	AVIN/VIN	0	0	0	1	0	0	1	0
	TV (Other than SECAM)	0	0	0	1	0	0	1	0
	TV (SECAM)	1	0	1	1	0	0	0	0
	NAVI	1	0	1	0	1	0	0	0
	PARK_OFF	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
	REVERS_OFF	0	0	0	1	0	0	1	0
	NAVI_OFF	1	0	1	0	1	0	0	0

* 1: Superimpose OSD without switching the image shown on the display (monitor output).

 The specifications for these yellow cells are not used this time and the no-input control method as described in the followings is used.

● RGB_OUT control

“RGB_OUT” operation is controlled with the OR of “V_MUT” and specifications shown in the next table.

	Name of control line	RGBOUT_MUTE	V MUTE Function
	Terminal number	72	
OP_MONITOR (In house)	Full_GRAPHIC	0	1
	iPod_VIDEO	0	1
	AVIN/VIN	0	1
	TV (Other than SECAM)	0	1
	TV (SECAM)	0	1
	NAVI	0	1
	PARK_OFF	* 1	1
	REVERS_OFF	0	1
	NAVI_OFF	0	1
OEM_MONITOR (Out-of-house)	Full_GRAPHIC	0	1
	iPod_VIDEO	1	1
	AVIN/VIN	1	1
	TV (Other than SECAM)	1	1
	TV (SECAM)	0	1
	NAVI	0	1
	PARK_OFF	* 1	1
	REVERS_OFF	1	1
	NAVI_OFF	0	1

* 1: Superimpose OSD without switching the image shown on the display (monitor output).

● AUDIO switching SW (To MAIN, SUB, AV_OUT)

	AOUT_SW5	AOUT_SW6
USB_AUDIO	0	1
iPod_AUDIO	1	0

● Control method when there is no input

Decide if there is a signal or not based on the number of pulses that is coming in the SYNC_DET terminal (pin40) within 100ms.

	Name of control line	SYNC_DET	SYNC_SW	COMP_MUTE
	μ -com terminal number	40	76	84
	Control IC	-	MM1503-E	-
	Control IC terminal number	-	1	-
OP_MONITOR	None	3 or less	1	1
	Yes	4~7	0	0
OEM_MONITOR	None	8~44	1	1
	Yes	45~79	0	0
	None	80 or more	1	1

* Plus “COMP_MUTE” to the control defined in the above table of “To MONITOR (OP_MONITOR or OEM_MONITOR)”.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● Audio μ -com: 703030BYGCJ30 (X14-982: IC902)

Pin No.	Pin Name	Application	I/O	Note
1	TV_JUDGE	TV-BOX new/old detection	I	
2	TUN_SCL	F/E I2C clock output terminal	O	
3	NAVI_RX	Navi control data input	I	
4	NAVI_TX	Navi control data output	O	
5	TV_MC_REQ	Communication request to TV_COM	O	
6	EVDD	Power supply terminal	-	
7	EVSS	GND terminal	-	
8	TV_SC_CON	Start-up request to TV_COM	O	
9	BEEP	BEEP	O	
10	MIX_REMO	Remote control data input	I	
11	SYS_SREQ	Communication request to SYS_COM	O	
12	SYS_MDATA	SYS_COM communication data input	I	
13	SYS_SDATA	SYS_COM communication data output	O	
14	SYS_MCLK	SYS_COM communication clock	I	
15	SYS_MREQ	SYS_COM communication request input	I	
16	EXT_CON	EXT-CONT output	O	
17	VSYNC_DET	Video detection	I	
18	VPP	(Used only for software update)	I	
19	RGB_MUTE	MUTE RGB except when NAVI or SECAM	O	
20	RGB_SW	NAVI/SECAM switching	O	
21	AIN_SEL5	Audio-In switching	O	
22	AIN_SEL6	Audio-In switching	O	
23	R_QUAL	RDS decoder QUAL input terminal	I	
24	R_DATA	RDS decoder DATA input terminal	I	
25	R_AFS_H	Switching constant when noise detected	I/O	
26	AM+B	AM power ON	O	
27	AUTO_SW_1	SW for video detection	O	
28	AUTO_SW_2	Video detection, NTSC/PAL determination	O	
29	SEL_CLK	CLK for Audio and Video selector	O	
30	SEL_DATA	DATA for Audio and Video selector	O	
31	RESET	System reset input	I	
32	XT1	(Not used)	I	
33	XT2	(Not used)	O	
34	REGC	Capacitor connection terminal for reducing power supply noise	-	
35	X2	Inverter output terminal for system clock [19.800MHz]	-	
36	X1	Inverter input terminal for system clock [19.800MHz]	-	
37	VSS	GND terminal	-	
38	VDD	Power supply terminal	-	
39	CLKOUT	(Not used)	-	
40	PRE_MUTESW	PREout sub woofer MUTE	O	

KOS-V1000/V500

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Application	I/O	Note
41	PRE_MUTER	PREout rear MUTE	O	
42	PRE_MUTEF	PREout front MUTE	O	
43	RELAY_SW1	ON/OFF of external equipment relay control	O	
44	RELAY_SW2	ON/OFF of external equipment relay control	O	
45	RELAY_SW3	ON/OFF of external equipment relay control	O	Used only in KOS-V1000.
46	RELAY_SW4	ON/OFF of external equipment relay control	O	Used only in KOS-V1000.
47	RELAY_DET1	Detection of external equipment relay control	I	
48	RELAY_DET2	Detection of external equipment relay control	I	
49	RELAY_DET3	Detection of external equipment relay control	I	Used only in KOS-V1000.
50	RELAY_DET4	Detection of external equipment relay control	I	Used only in KOS-V1000.
51	ILL_DET	ILL detection	I	
52	PAK_DET	Parking detection	I	
53	REV_DET	Reverse detection	I	
54	P_CON	P-CON control output	O	
55	BVDD	Power supply terminal	-	
56	BVSS	GND terminal	-	
57	ANT_CON	P-ANT control output	O	
58	NC	(Not used)	O	
59	PWIC_STBY	PWIC standby	O	
60	PWIC_MUTE	PWIC_FR MUTE	O	
61	AUD_MUTE_C	E-VOL inputSEL_C MUTE	O	
62	AUD_MUTE_B	E-VOL inputSEL_B MUTE	O	
63	AUD_MUTE_A	E-VOL inputSEL_A MUTE	O	
64	AUD_MUTE2	E-VOL center, SWMUTE	O	
65	AUD_MUTE1	E-VOL rear MUTE	O	
66	AUD_MUTE0	E-VOL front MUTE	O	
67	AUD_SDA	E-VOL data output / ROM correction E2PROM communication data input/output	I/O	
68	AUD_SCL	E-VOL clock output / ROM correction E2PROM communication clock output	O	
69	PON	A8V, V5V, SW5V ON/OFF	O	
70	LX_RST	Hardware-reset to slave unit	O	
71	AVDD	Power supply terminal	-	
72	AVSS	GND terminal	-	
73	AVREF	Reference voltage input	-	
74	PWIC_DCDET	SP_FR output DC offset detection	I	
75	LINE_MUTE	LINE-MUTE input detection	I	
76	NC	(Not used)	-	
77	A_WRT_E2P	Used when writing E2PROM	I	
78	LX_MUTE	MUTE request from slave unit	I	
79	A_TYPE0	Destination (Voltage reading)	I	

KOS-V1000/V500

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Application	I/O	Note
80	A_TYPE1	Model detection terminal	I	Not monitored in KOS
81	A_TYPE2	Model detection terminal	I	KOS is fixed to High
82	A_TYPE3	Model detection terminal	I	500: Fixed to Lo, 1000: Fixed to High
83	TUN_IFC	F/E IFC OUT input terminal	I	
84	TUN_SMET	S meter input	I	
85	R_NOISE	FM noise detection terminal	I	
86	RIP_MUTE	Power IC inside	O	Used only in KOS-V1000.
87	BU_DET	BU reduced voltage detection	I	
88	TV_SC_REQ	Communication request from TV_COM	I	
89	SYS_ON	SYS_COM communication control input	I	
90	R_CLK	RDS decoder CLK input terminal	I	
91	LX_REQ_S	Communication request from slave unit	I	
92	LX_REQ_M	Communication request to slave unit	O	
93	LX_CON	Start-up request to slave unit	O	
94	LX_DATA_S/ A_FLASH_MDATA	Data from slave unit / Data from Flash re-write terminal writer	I	
95	LX_DATA_M/ A_FLASH_SDATA	Data to slave unit / Data to Flash re-write terminal writer	O	
96	LX_CLK/ A_FLASH_SCK	LX BUS clock / Clock from Flash re-write terminal writer	O	
97	TV_SC_DATA	DATA input from TV_COM	I	
98	TV_MC_DATA	DATA output to TV_COM	O	
99	TV_BP_CLK	CLK output to TV_COM	O	
100	TUN_SDA	F/E I2C data input/output terminal	I/O	

KOS-V1000/V500

ADJUSTMENT

● SYNC Timing adjustment

Use the arbitrary monitor. (When using the arbitrary monitor, use the "Parking OFF" since the screen is shown dark when the source is the composite source.)

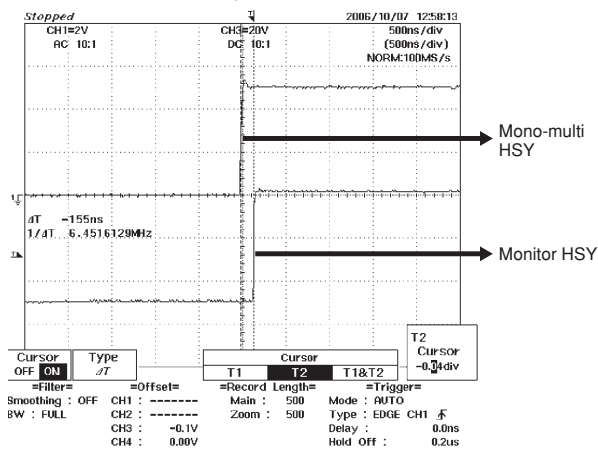
• Conditions

Video source : NAVI source and VIDEO source
 Input video : NAVI and VIDEO signals
 Operation mode : Parking OFF (to display OSD)

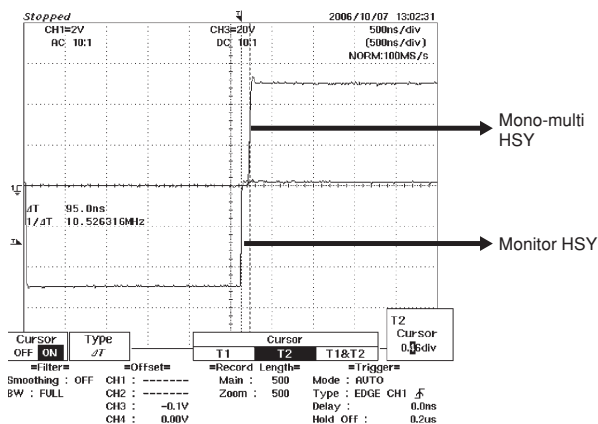
1. Use the Parking OFF to check if there is any space at the edge of OSD. When AV1 is entered in the composite signal.
2. Change each source.
3. Check that there are no jitter noises on the OSD.
4. If the jitter noises are observed, fine-adjust by turning VR201 (X14-982) to the position where the jitter noise is removed while observing the screen.
5. After turning VR201, re-check the timing with VSEL.

Reference

Baseline when no input



43K + 4.7K VR
 OSD shifts to left when the above values are used. VR MAX 155ns



43K + 4.7K VR
 OSD shifts to right when the above values are used. VR MIN 95ns

● COLOR adjustment

• Conditions

Video source : NTSC composite video signal (AV-IN1)
 Input video : Color bar
 Operation mode : Test Mode

• Adjustment

Adjust color with the remote controller by touching AUTO Adjust, CHROMA FNC, and COLOR in this sequence (AUTO Adjust → CHROMA FNC → COLOR) on the test mode screen.

* To shift to the test mode, press the [Reset] key to start the system while pressing the [MODE] and [VOL UP] keys at the same time ([MODE] + [VOLUP]). Refer to KVT-719DVD Service Manual (B53-0507-00) for the details of the test mode.

1. Connect the adjustment connector pin. (Surface A) Trigger with the composite or G signal and adjust color as shown below while monitoring G signal.

The figure shown below is the output wave form of R, G, and B colors.

2. Set the default values for COLOR register. (Default value: 5C)
3. Shift to the COLOR adjustment screen and fine-adjust the COLOR register.

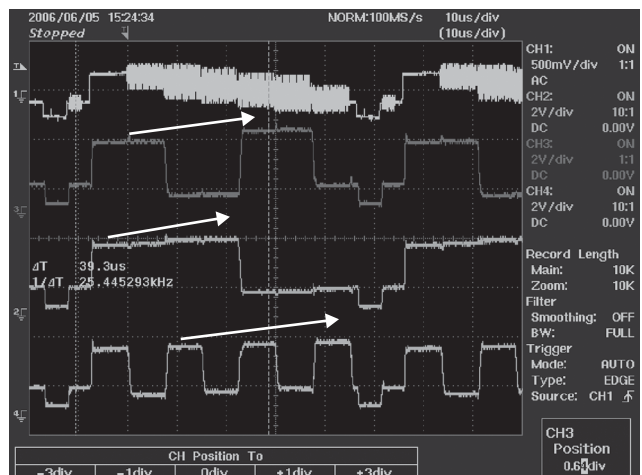
Adjust the register by changing the COLOR value with the UP/DOWN on the remote controller such that the amplitude of one horizontal becomes constant.

Adjust the register so that the level of the ○ part is flat.

4. After adjustment, press the final [selection] key. Color of OSD on the screen turns purple when the KEY is pressed.

Then press the [end] key and when "Write OK" is shown the adjustment is complete.

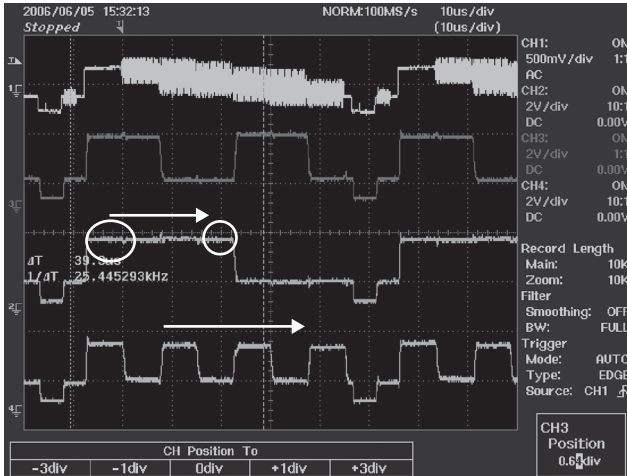
COLOR : 70



When COLOR register is increased

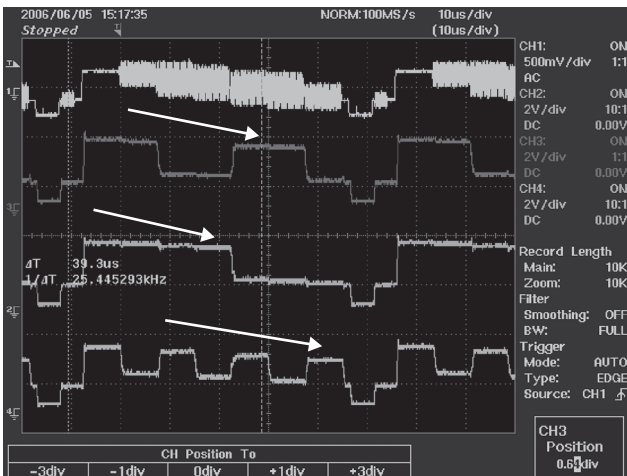
ADJUSTMENT

COLOR : 60



When COLOR register is set to 60

COLOR : 50



When COLOR register is decreased

● RGB Automatic adjustment

• Conditions

Video source : NTSC composite video signal (AV-IN1)
 Input video : White 100%
 Operation mode : Test Mode

• Adjustment

Start the automatic adjustment by touching AUTO Adjust and RGB in this sequence (AUTO Adjust → RGB) on the test mode screen.

• Measurement equipment and etc.

Video signal generator
 KOS-L702 monitor

Horizontal position default value for both of internal and external monitors (Reference only)

Graphic	2
VIDEO (NTSC)	3
NAVI	2
VIDEO (PAL)	5

OSD default value
 ALL 0

● TINT/PHASE Automatic adjustment (PAL)

• Conditions

Video source : PAL composite video signal (AV-IN1)
 Input video : Magenta (Luster)
 Operation mode : Test Mode

• Adjustment

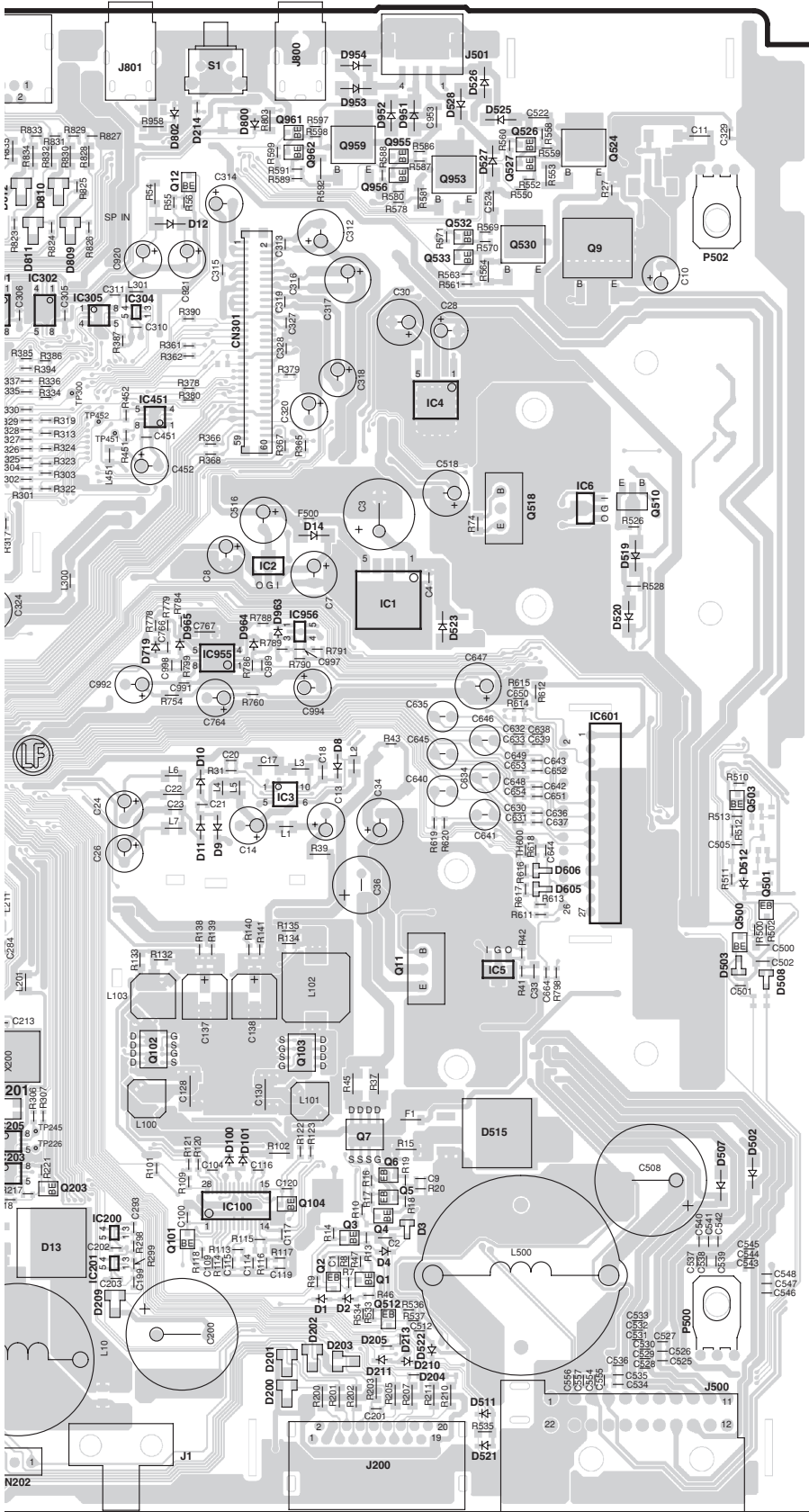
Start the automatic adjustment by touching AUTO Adjust and TINT/PHASE in this sequence (AUTO Adjust → TINT/PHASE) on the test mode screen.

* Make this adjustment after setting up Chroma auto CONT-VIDEO.

(* Make the adjustment after the TINT and PHASE adjustments of NTSC.)

• Measurement equipment and etc.

Video signal generator
 KOS-L702 monitor



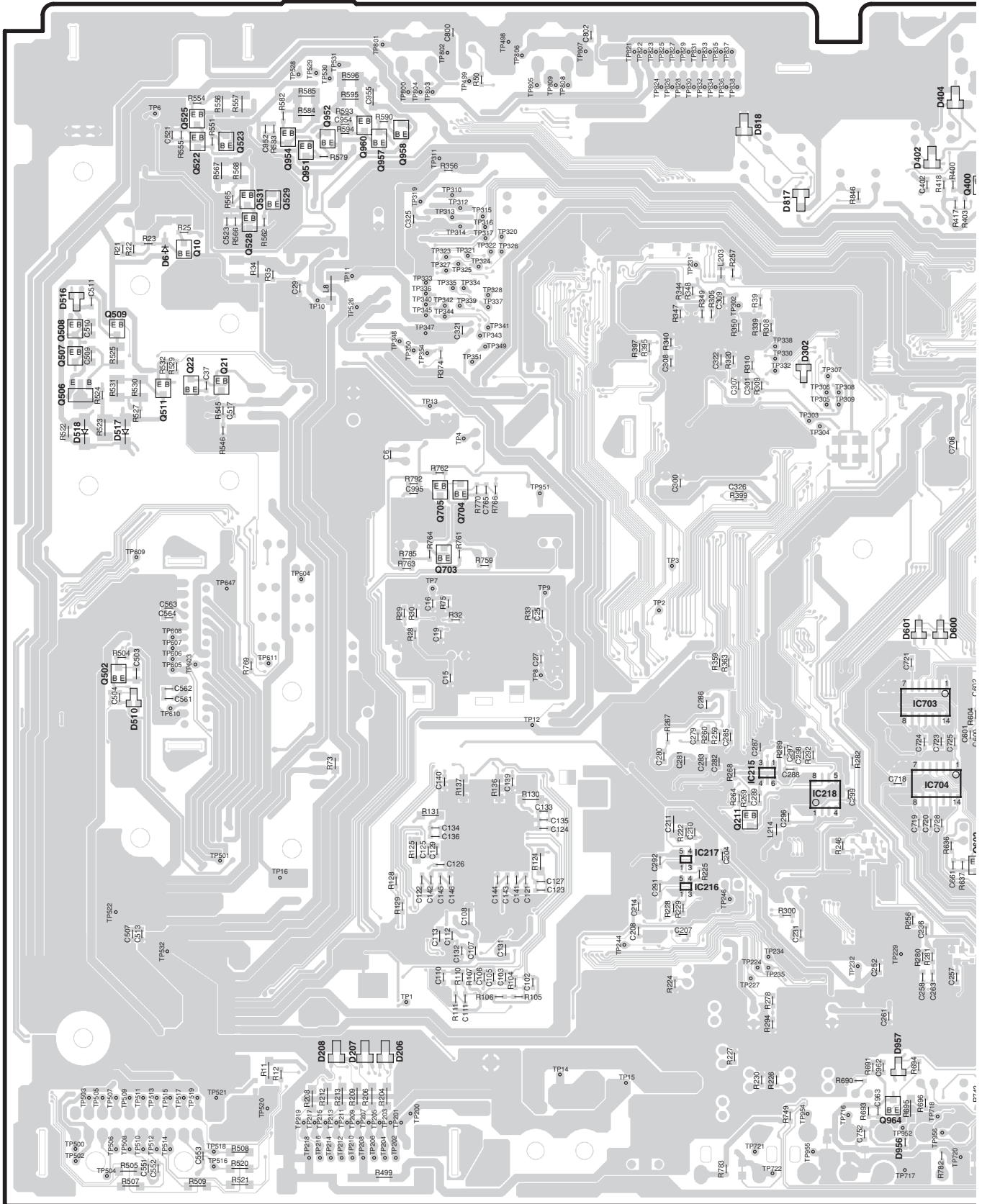
X14-982x-xx

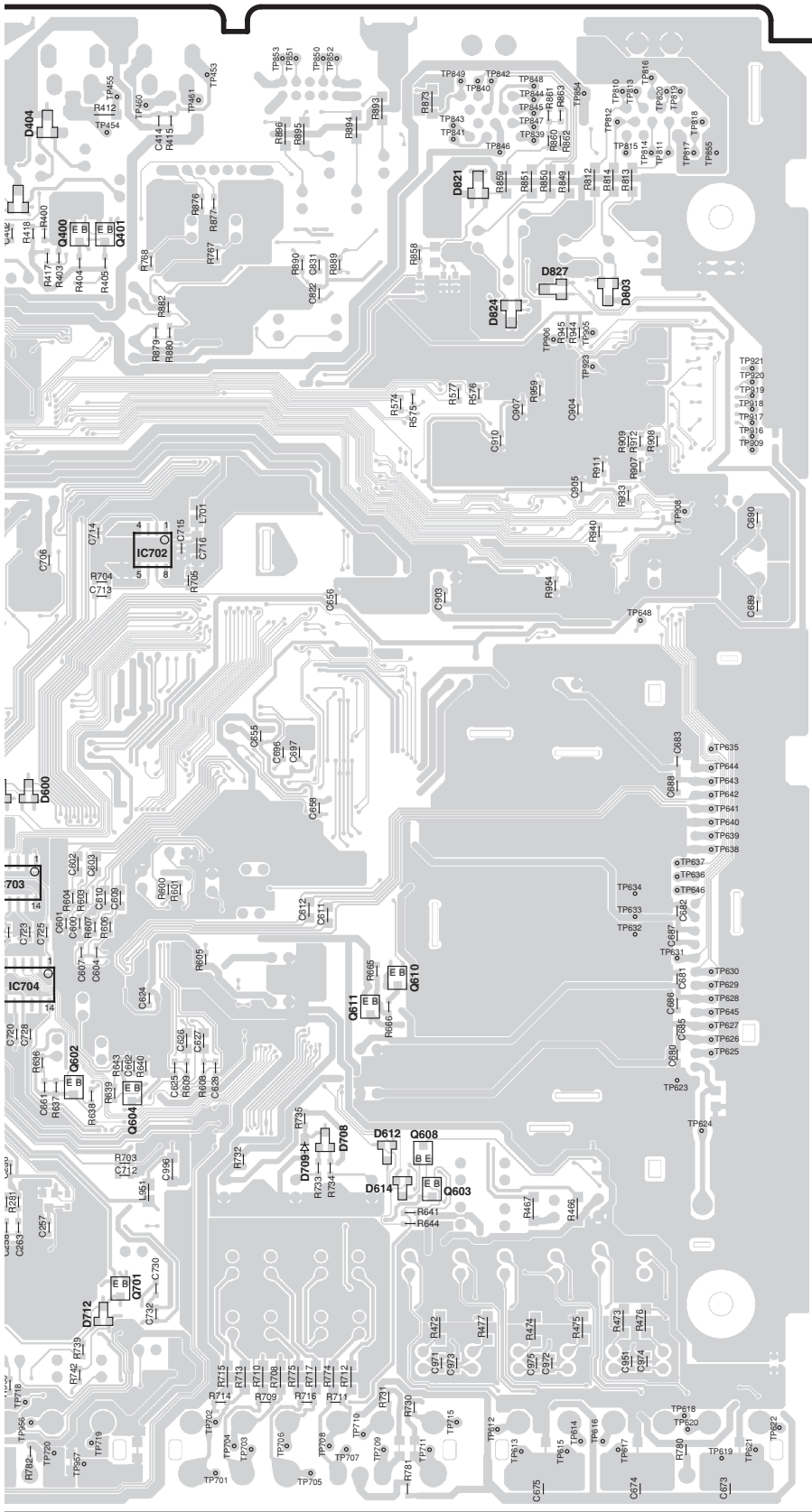
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	4G	IC701	5C	Q208	5D
IC2	3F	IC705	6C	Q209	5D
IC3	4G	IC706	6C	Q210	5D
IC4	3G	IC707	6C	Q300	4E
IC5	5G	IC800	3D	Q301	4E
IC6	3H	IC801	2E	Q500	5H
IC100	6F	IC802	2C	Q501	5H
IC200	6F	IC803	2C	Q503	4H
IC201	6F	IC804	3C	Q510	3H
IC202	6E	IC805	2C	Q512	6G
IC203	6E	IC806	4D	Q518	3G
IC204	5E	IC807	3D	Q524	2H
IC205	5E	IC900	3A	Q526	2G
IC206	6E	IC901	4B	Q527	2G
IC208	6E	IC902	3B	Q530	2G
IC209	6E	IC903	3B	Q532	2G
IC210	6D	IC951	6C	Q533	2G
IC211	6D	IC952	6B	Q600	4C
IC212	5D	IC953	6B	Q601	4C
IC213	5E	IC954	6B	Q605	6C
IC214	5E	IC955	4F	Q606	6B
IC219	5E	IC956	4G	Q607	6B
IC220	6E	IC957	3D	Q609	5B
IC300	4E	Q1	6G	Q700	6D
IC301	2E	Q2	6G	Q702	7D
IC302	2F	Q3	6G	Q900	3B
IC303	3E	Q4	6G	Q901	3B
IC304	2F	Q5	6G	Q902	3B
IC305	2F	Q6	6G	Q903	4B
IC400	2D	Q7	5G	Q904	3C
IC401	2D	Q9	2H	Q905	4B
IC402	2D	Q11	5G	Q906	3B
IC451	3F	Q12	2F	Q907	3B
IC600	5C	Q101	6F	Q908	4B
IC601	4H	Q102	5F	Q953	2G
IC602	4C	Q103	5G	Q955	2G
IC603	4C	Q104	6G	Q956	2G
IC604	4C	Q200	6E	Q959	2G
IC605	4C	Q201	6E	Q961	2G
IC606	3A	Q203	6F	Q962	2G
IC700	3D	Q205	5D	Q963	6D

Refer to the schematic diagram for the values of resistors and capacitors.

KOS-V1000/V500 PC BOARD (FOIL SIDE VIEW)

VIDEO CONTROL UNIT X14-982-xx (J76-0395-11)





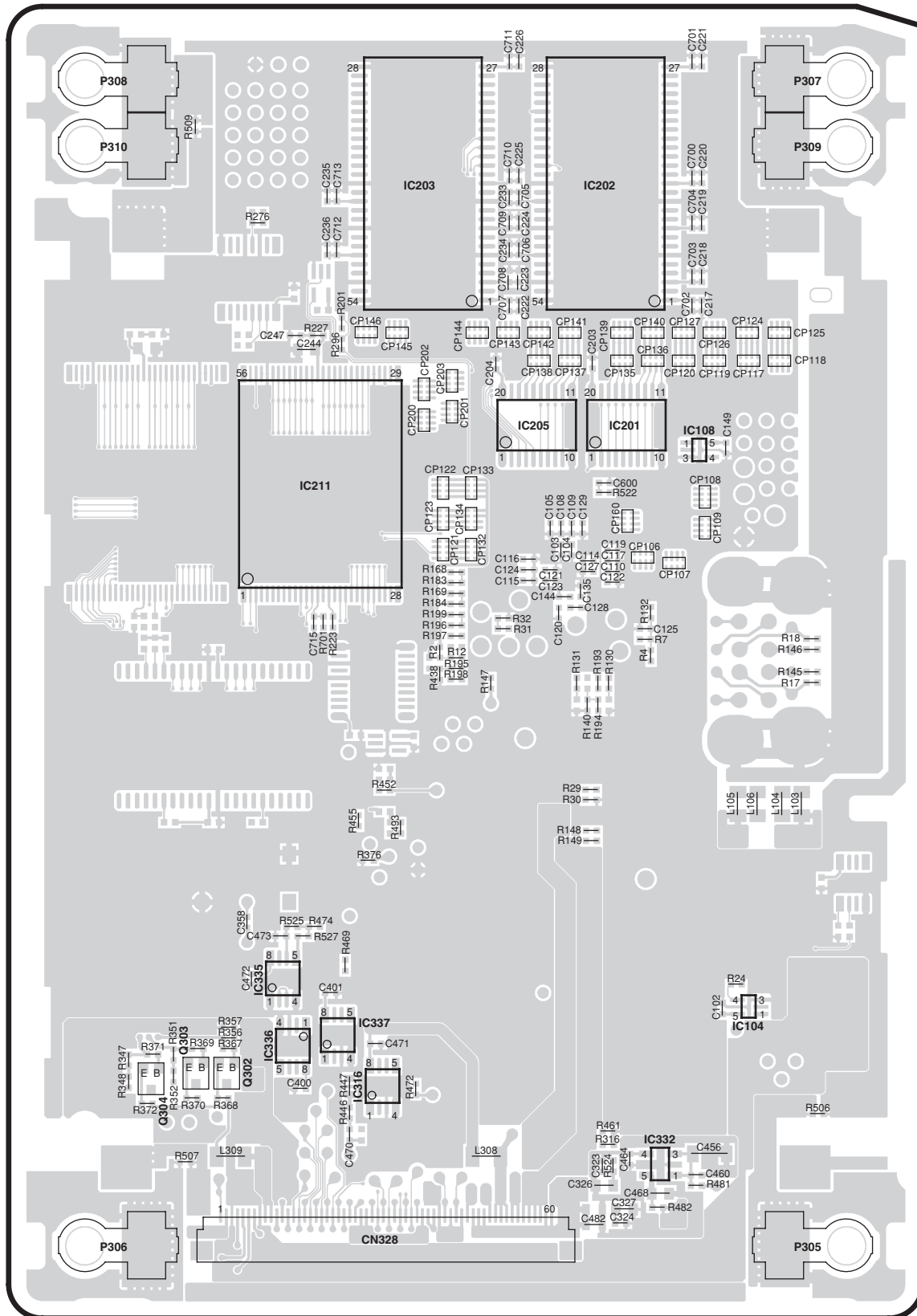
X14-982x-xx

Ref. No.	Address
IC215	5N
IC216	5N
IC217	5N
IC218	5O
IC702	3P
IC703	5O
IC704	5O
Q10	2L
Q21	3L
Q22	3L
Q211	5N
Q400	2P
Q401	2P
Q502	4K
Q506	3K
Q507	3K
Q508	3K
Q509	3K
Q511	3L
Q522	2L
Q523	2L
Q525	2L
Q528	2L
Q529	2L
Q531	2L
Q602	5P
Q603	6Q
Q604	5P
Q608	5Q
Q610	5Q
Q611	5Q
Q701	6P
Q703	4M
Q704	4M
Q705	4M
Q951	2L
Q952	2L
Q954	2L
Q957	2M
Q958	2M
Q960	2M
Q964	6O

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

DIGITAL I/O UNIT X88-2020-1x (J76-0394-42)

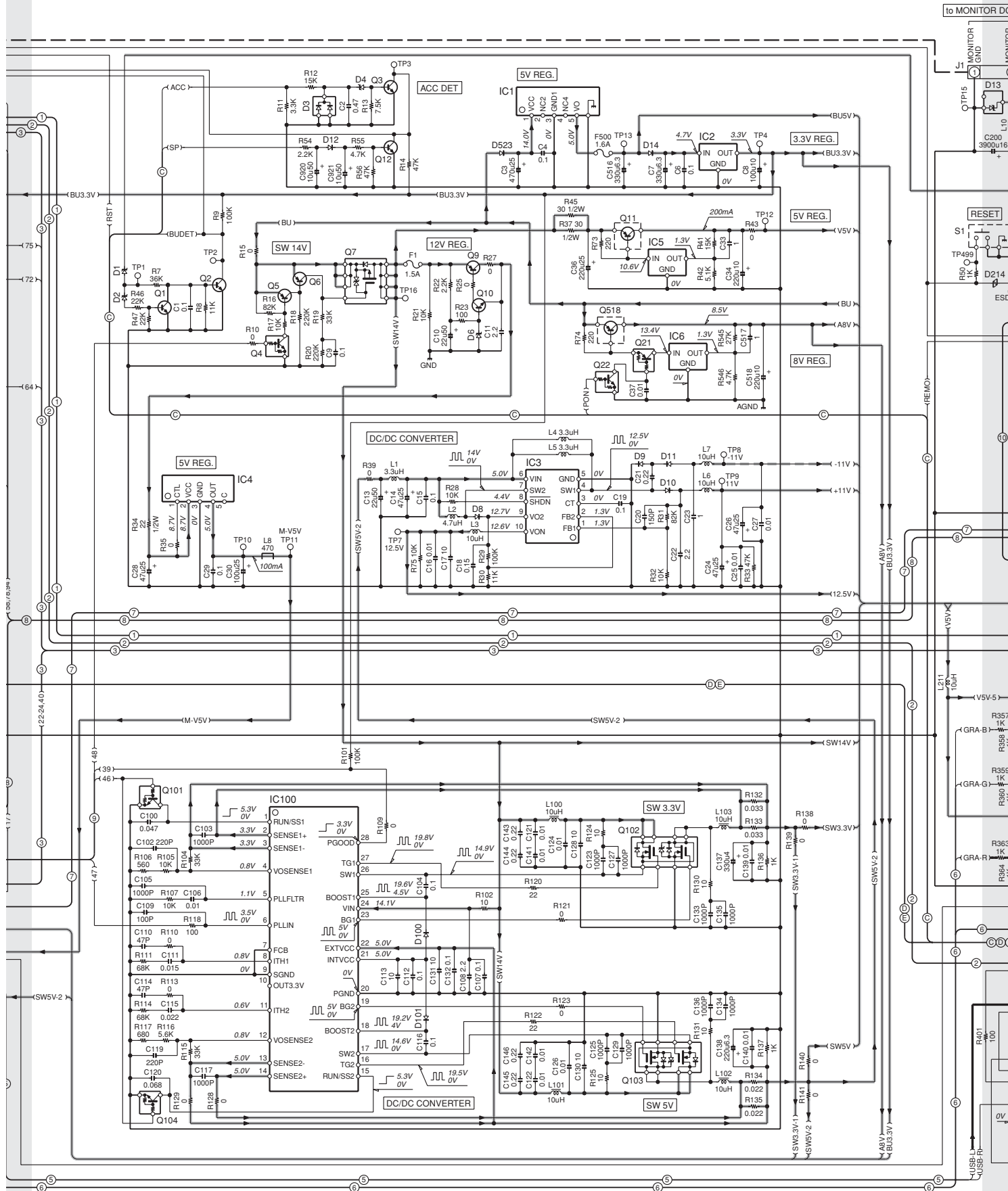


X88-2020-1x

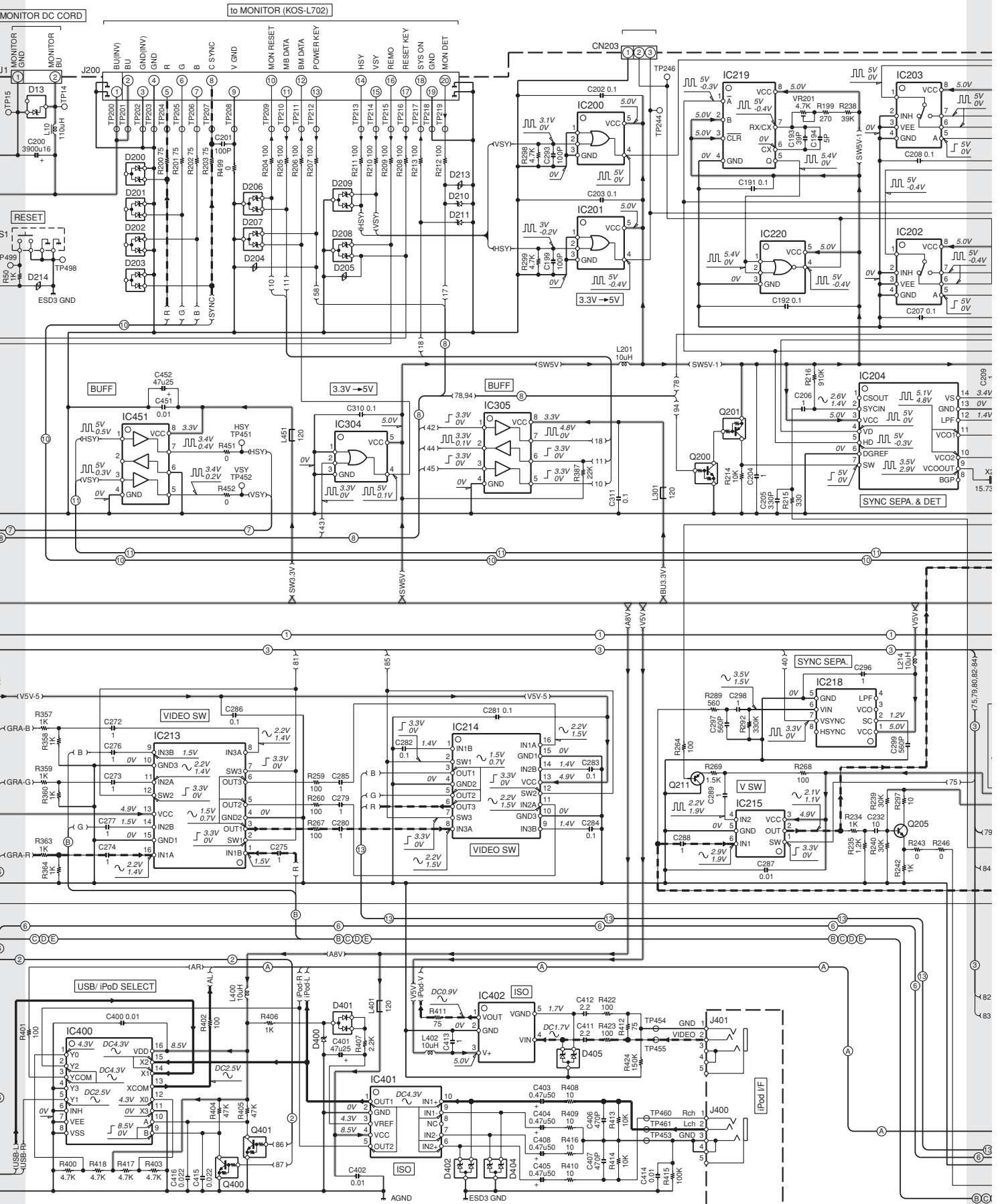
Ref. No.	Address
IC104	6AC
IC108	3AB
IC201	3AB
IC202	2AB
IC203	2AA
IC205	3AB
IC211	3AA
IC335	5AA
Q302	6AA
Q303	6Z
Q304	6Z

Refer to the schematic diagram for the values of resistors and capacitors.

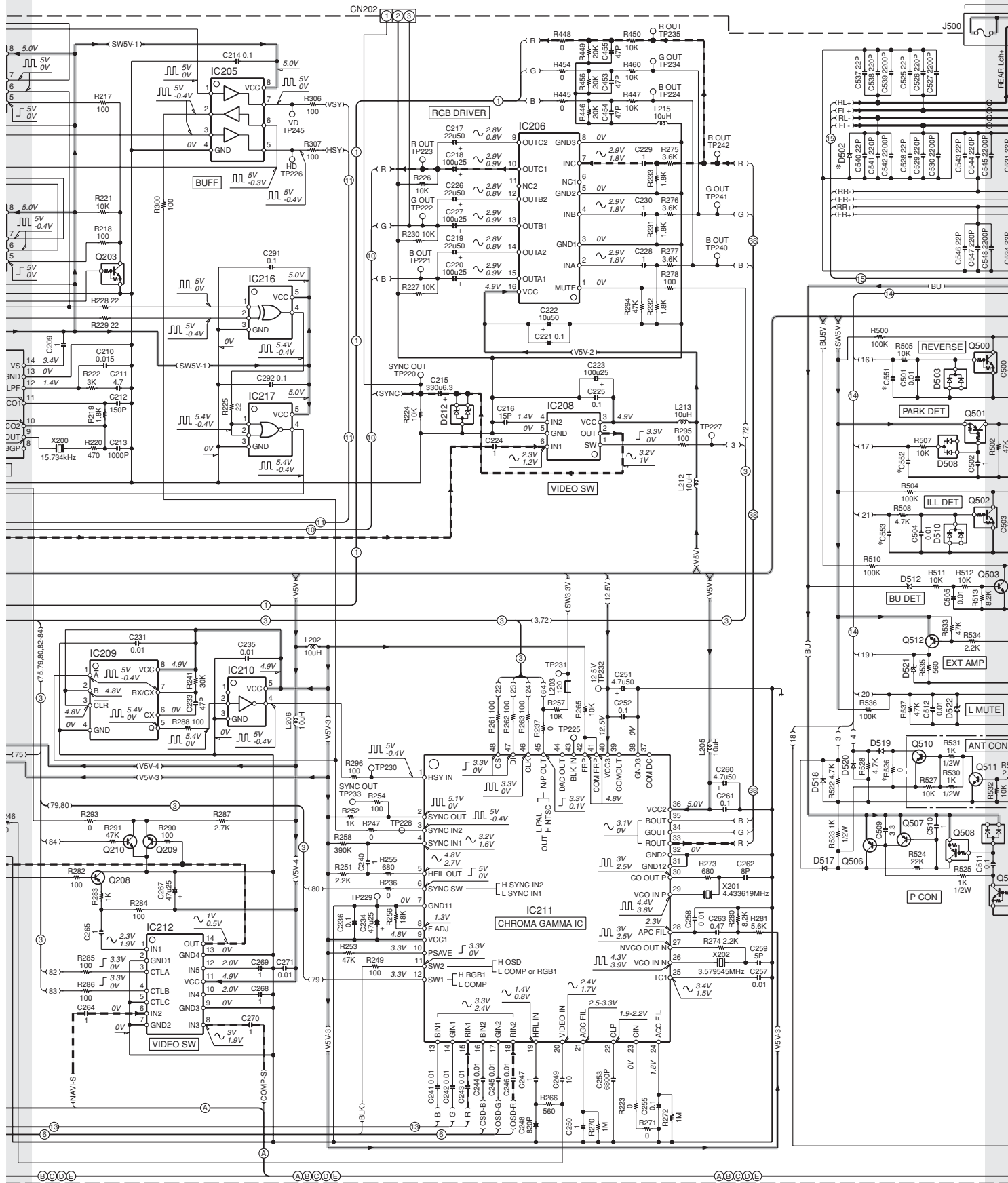
KOS-V1000/V500



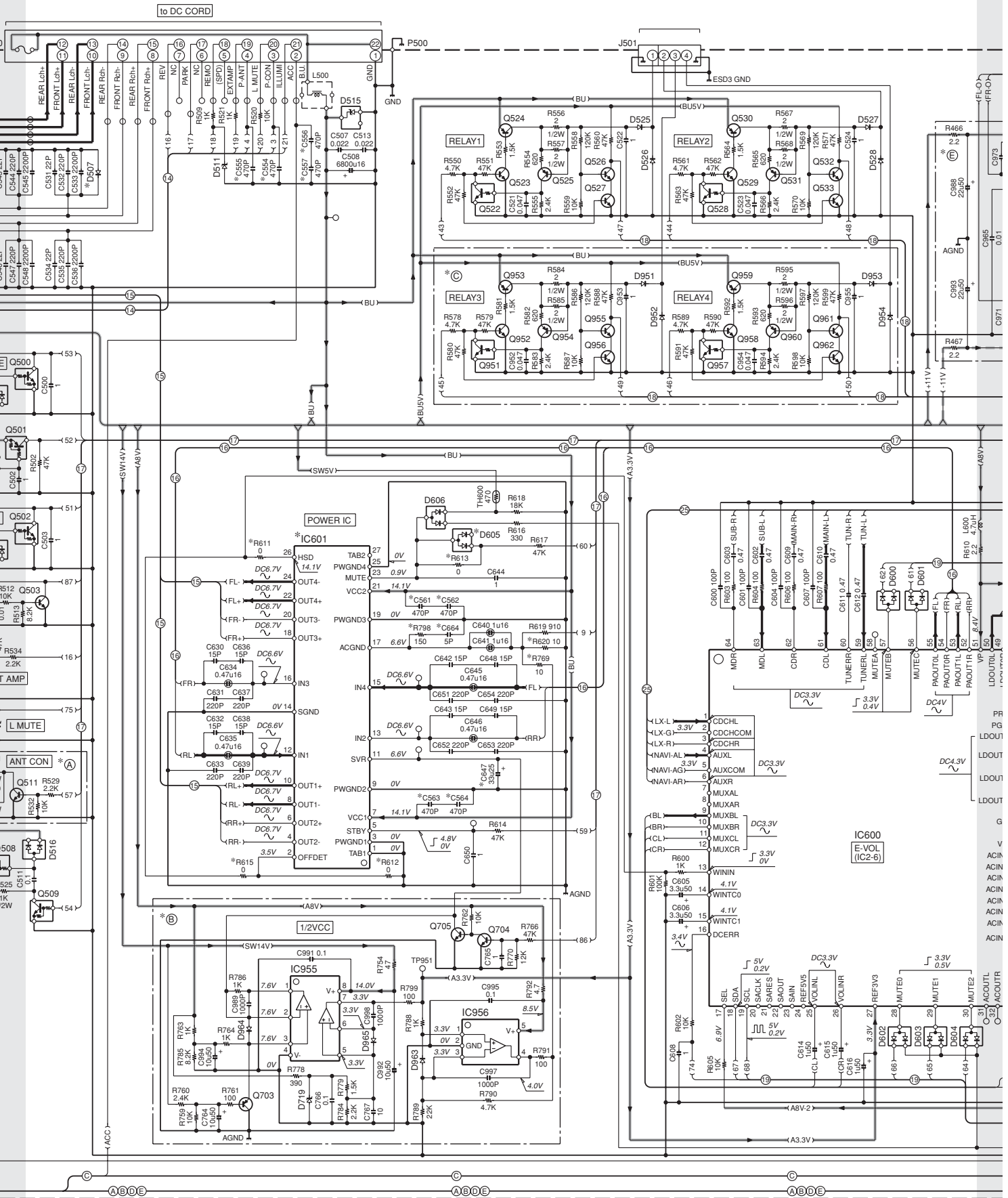
KOS-V1000/V500



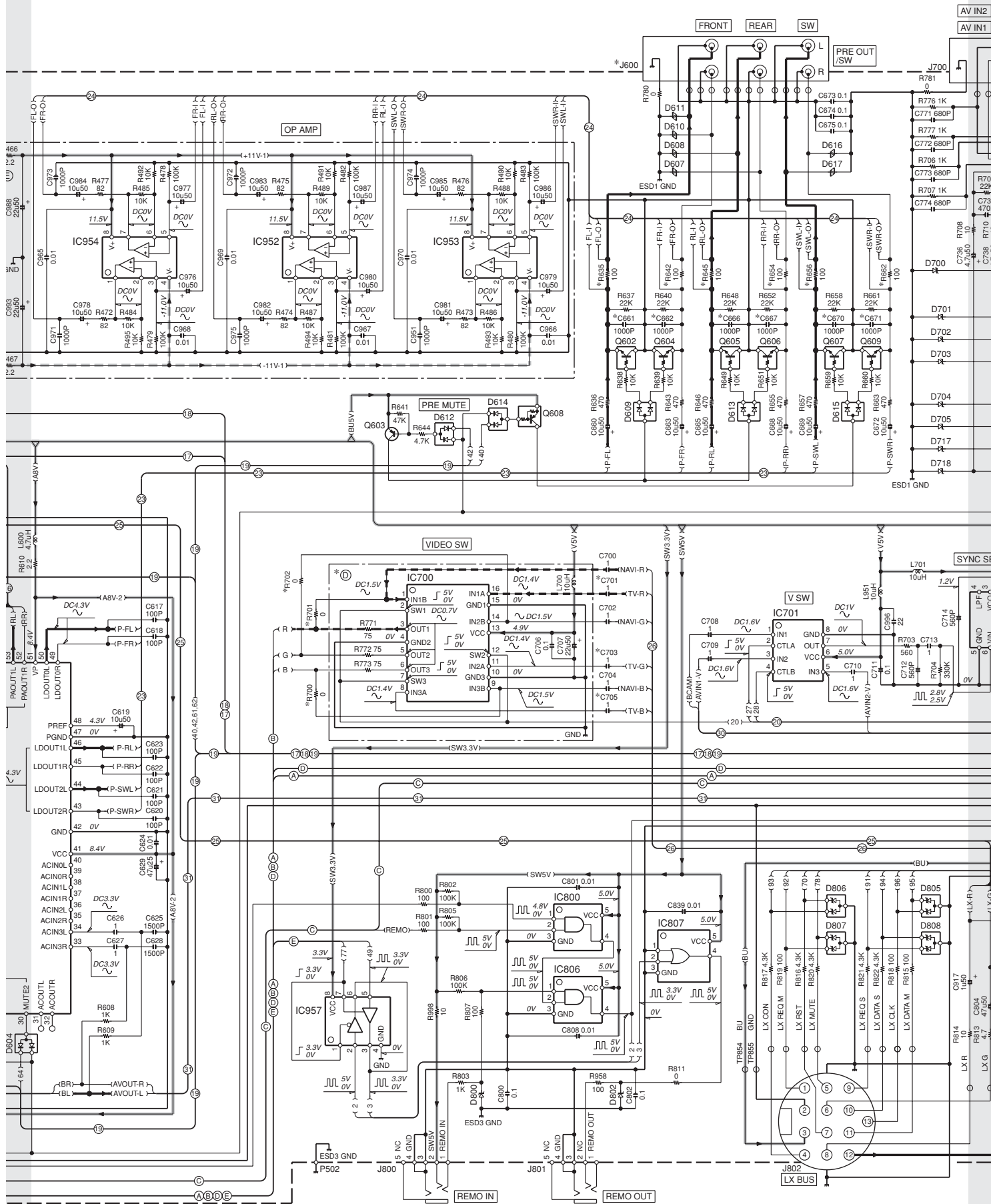
KOS-V1000/V500



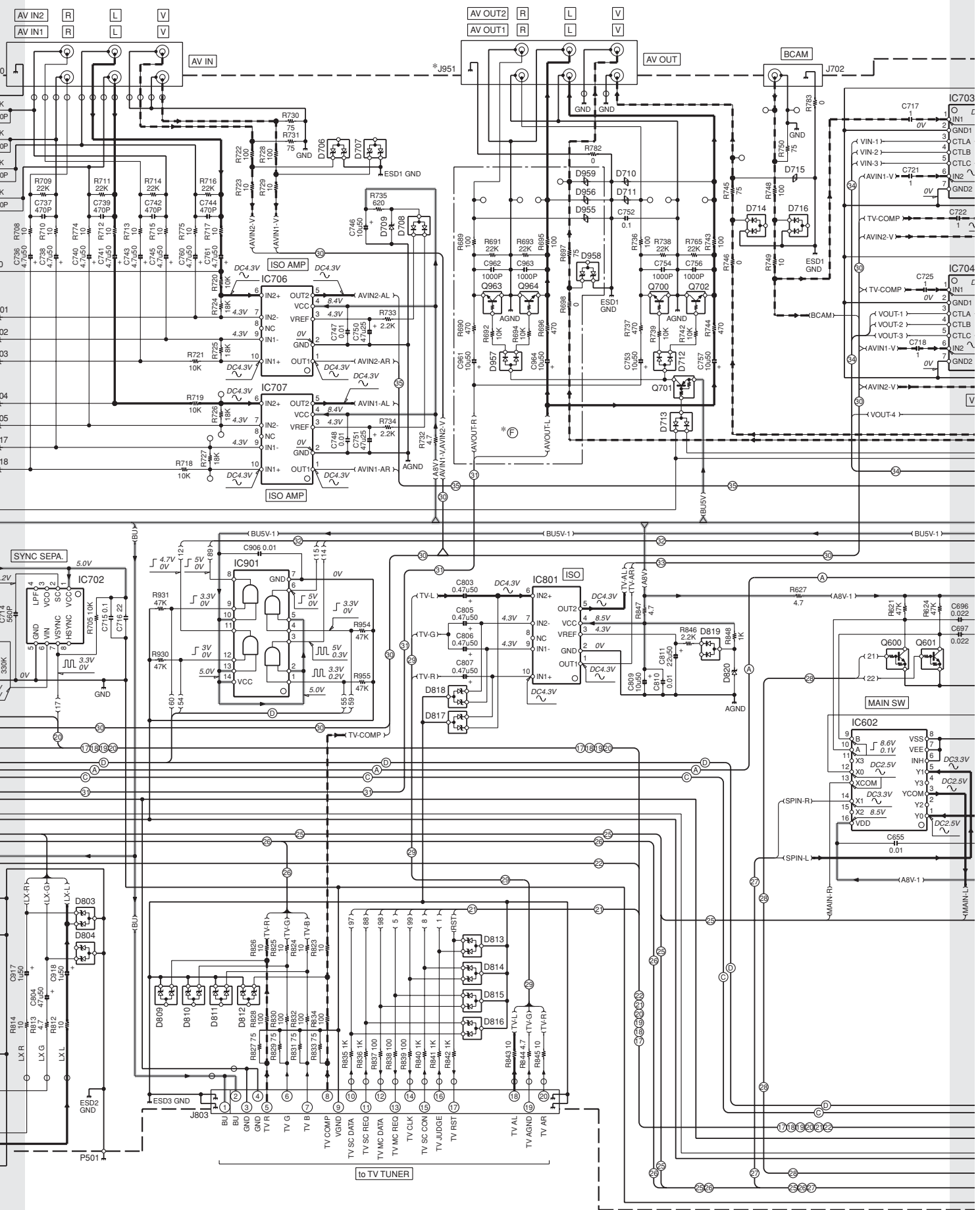
KOS-V1000/V500



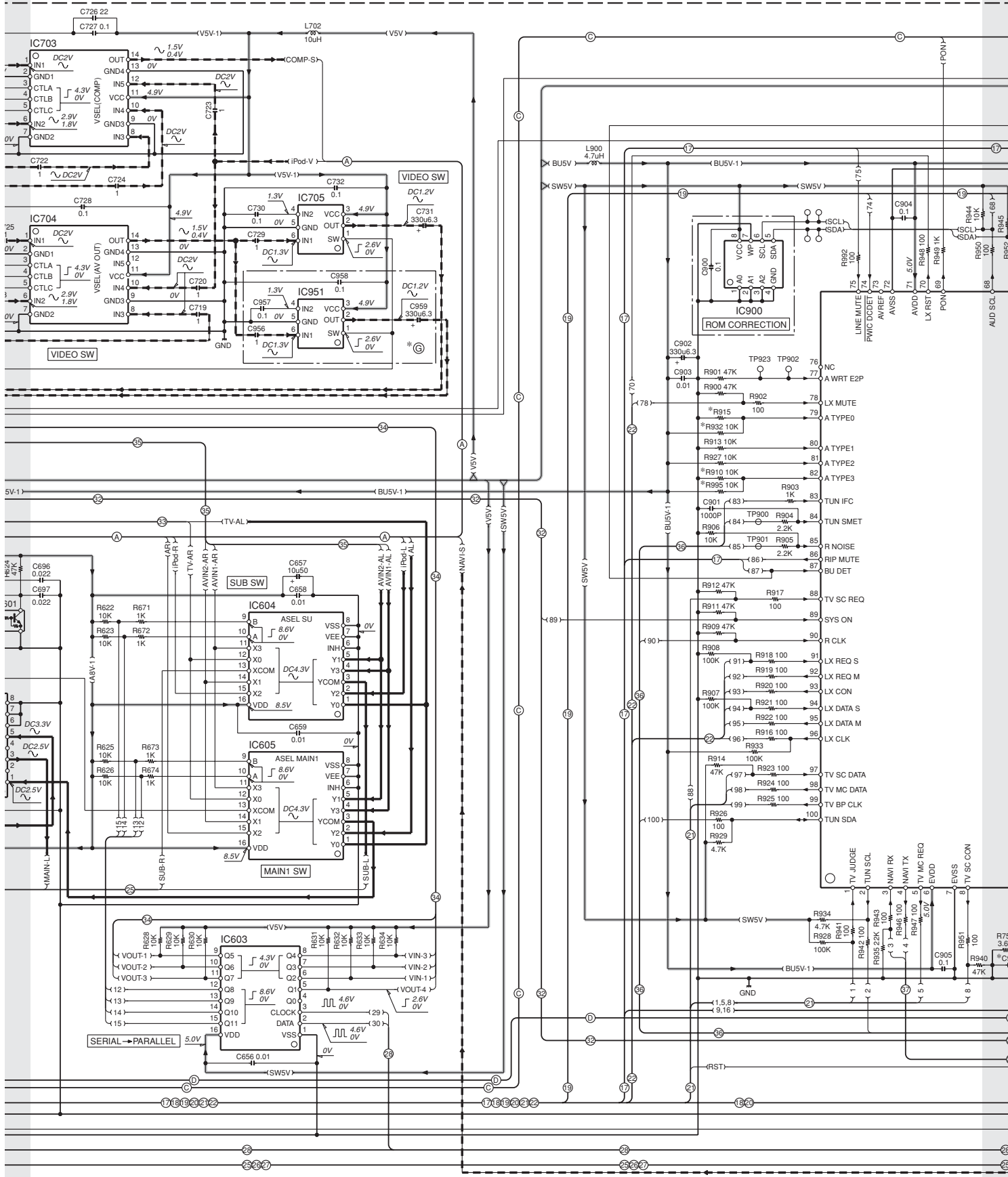
KOS-V1000/V500



KOS-V1000/V500



KOS-V1000/V500



KOS-V1000/V500

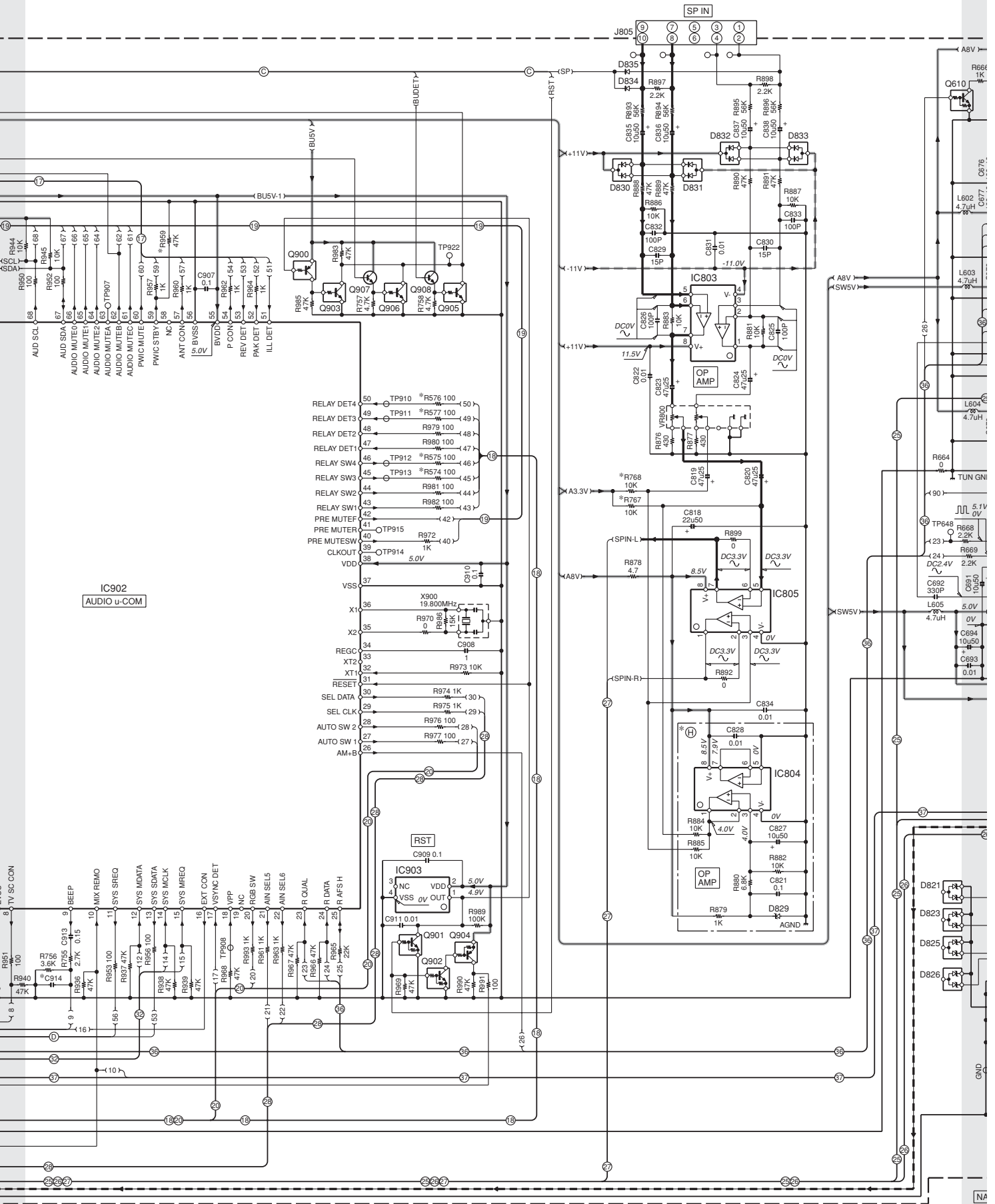
AO

AP

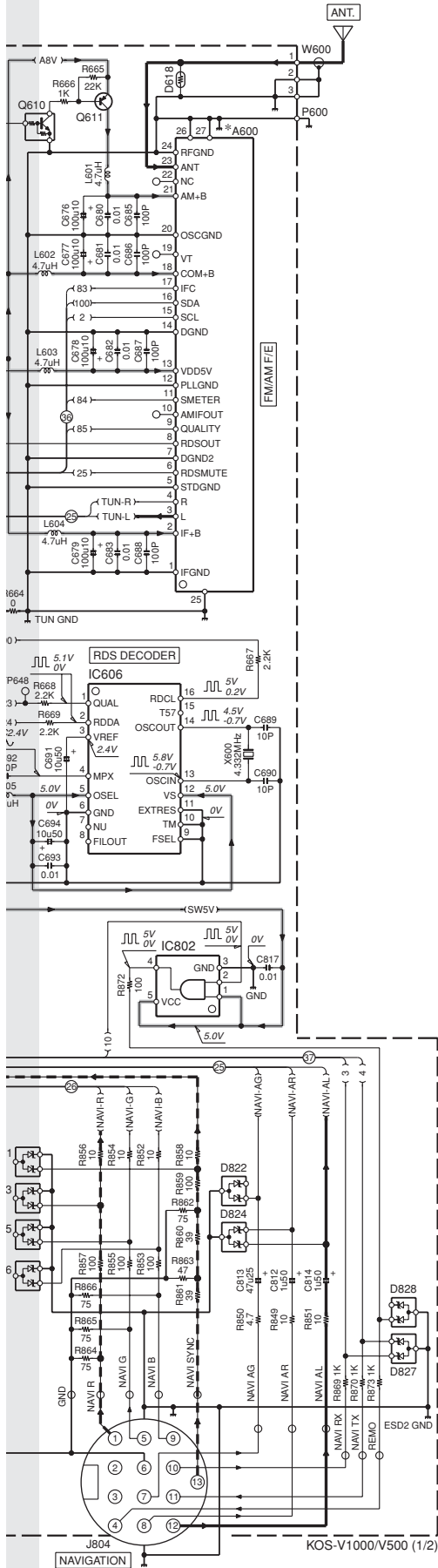
AQ

AR

AS



KOS-V1000/V500



IC1	: BD3941HFP
IC2	: XC6201P332PR
IC3	: LT1947-PBF
IC4	: BA05CC0WFP
IC5,6	: M5237ML-CF0J
IC100	: LTC3728LEGN
IC200,201,304,807	: TC7SET32FU-F
IC202,203	: TC7W53FU-F
IC204	: NJM1303V-ZB
IC205,305,451	: TC7WH34FU-F
IC206	: BA7666FS
IC208,705,951	: MM1508XNRE-E
IC209,219	: TC7WH123FU-F
IC210	: TC7SH04FU-F
IC211	: RB5P0090M
IC212,703,704	: BA7649F
IC213,214,700	: MM1234XFB-E
IC215	: MM1503-E
IC216	: TC7S86FU-F
IC217,220	: TC7S02FU-F
IC218,702	: MM1108XFFE-E
IC300	: S1000N30N41TG
IC301	: BR24L08F-W
IC302,900	: BR24L02F-W
IC303	: BA7663AFV
IC400,602,604,605	: TC4052BFT
IC401,706,707,801	: NJM2794RB2ZB
IC402	: NJM2505AF-ZB
IC600	: E-TDA7415CB
IC601	: *
IC603	: BU2090FS
IC606	: E-TDA7478AD
IC701	: BA7665AFV
IC800,806	: TC7SET08FU-F
IC802	: TC7S08FU-F
IC803,805,952-954	: NJM4580V-ZB
IC804,955	: NJM4565V-ZB
IC901	: TC74VHC08AFT
IC902	: 703030BYGJC30
IC903	: S-80842C2NWB-G
IC956	: NJM125F-ZB
IC957	: TC7WH241FK-F

Q1-3,10,12,205,210,503,511,523,526,527, 529,532,533,602,604-607,609,700,702, 704,705,907,908,952,955,956,958,961-964

Q4,101,104,200,301,400,401,509,901,902 : 2SC4081

Q21,300,501 : DTC114YUA

Q22,203,502,600,601,610 : DTA114YUA

Q5,6,208,209,211,507,512,525,531,603,703, 954,960 : 2SA1576A

Q7 : TPC8110-F

Q9 : 2SB1450-E

Q11,518 : 2SB1565(E,F)

Q21,300,501 : DTA114YUA

Q22,203,502,600,601,610 : DTC124EUA

Q102,103 : HAT2218R-E

Q201,508,904 : DTA114EUA

Q500 : DTC143EUA

Q506 : 2SB1188(Q,R)

Q510 : 2SB1188(R)

Q522,528,903,905,906,951,957 : DTA114YUA

Q524,530,953,959 : 2SB1184

Q608,701 : DTA144EUA

Q611 : 2SB1689

Q900 : DTA114TUA

D1,512,829 : UDZS6.8B

D2 : UDZS1.0B

D3,301,503,508,510,830,832 : DAN202U

D4,511,701,702,705,717,800,802 : UDZS6.2B

D6 : UDZS11B

D8 : EP05006

D9-11 : EP05004

D12,502,507,517-520,525-528,834,835, 951-954 : 1SR154-400

D13,515 : ST70-27F-5072

D14,523 : RB160L-40

D100,101 : 1SS357-F

D200-203,206-209,212,404,405,706,707,714, 716,804-816,818,821-823,825-828,958 : DTA114TUA

D204,205,213,214 : AVR1M1608120M6A

D210,211,400,522,709,820 : UDZS4.7B

D302,401,516,600-606,609,612-615, 708,712,713,819,831,833,957 : DAP202U

D402,803,817,824 : STZ6.8N

D521,719 : UDZS5.6B

D607,608,610,611,616,617,710,711,955,956 : AVR1M1608180M6A

D618 : IMSA-6801-E

D700,703,704,718 : UDZS8.2B

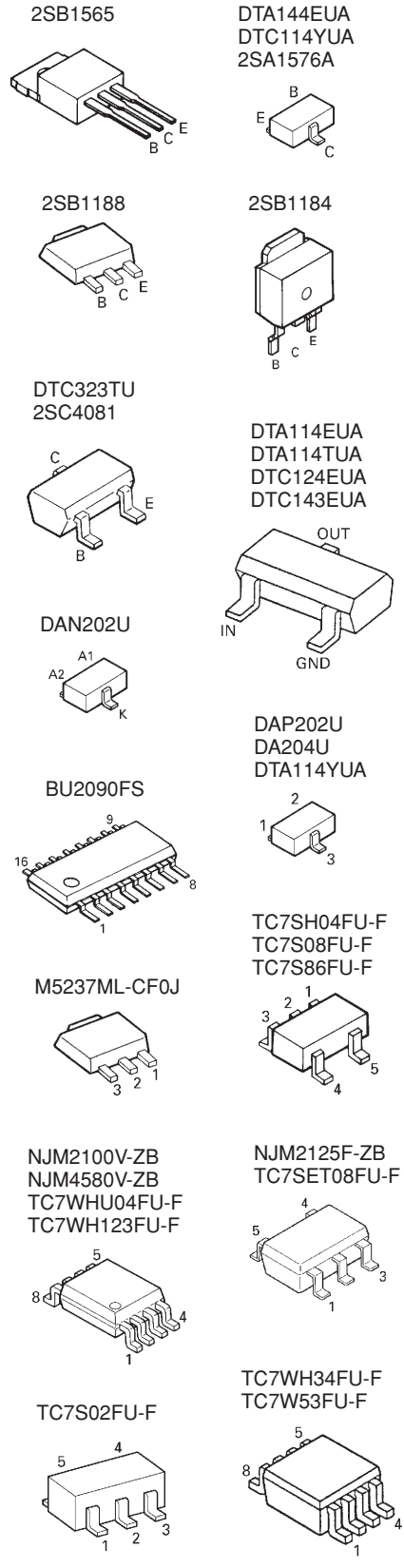
D715,959 : AVR1M1608270MAA

D963-965 : 1SS355

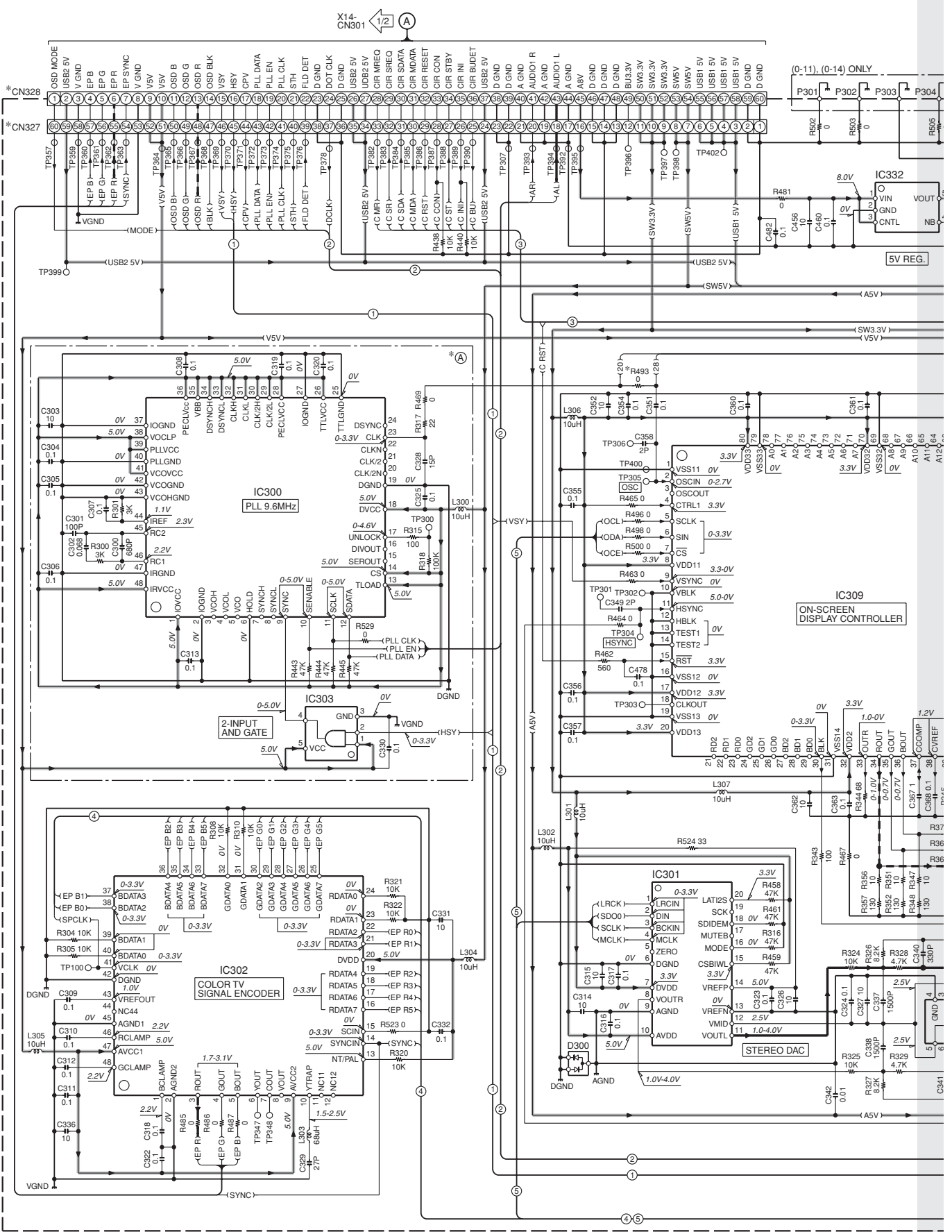
MODEL NAME	UNIT	(X14-982x-xx)
KOS-V500	0-10	YES
KOS-V1000	0-11	YES
KOS-V500	2-71	YES
KOS-V1000	2-72	YES
KOS-V500	0-21	YES
KOS-V1000	0-22	YES



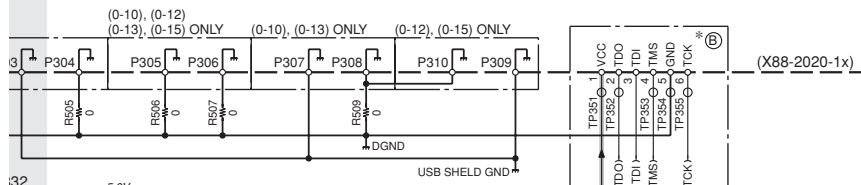
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 △ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.
 • DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



KOS-V1000/V500

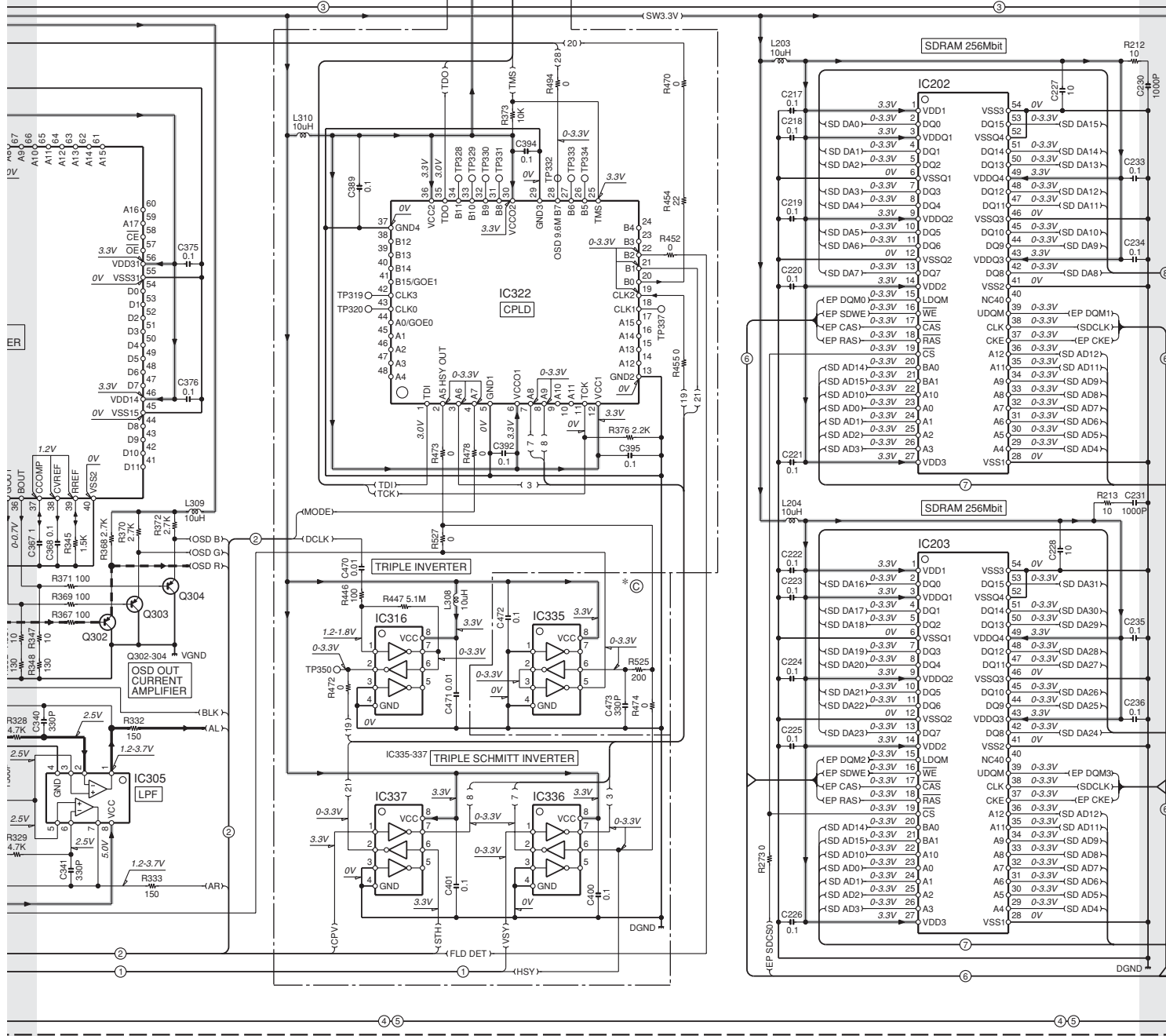
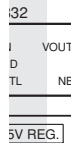


KOS-V1000/V500



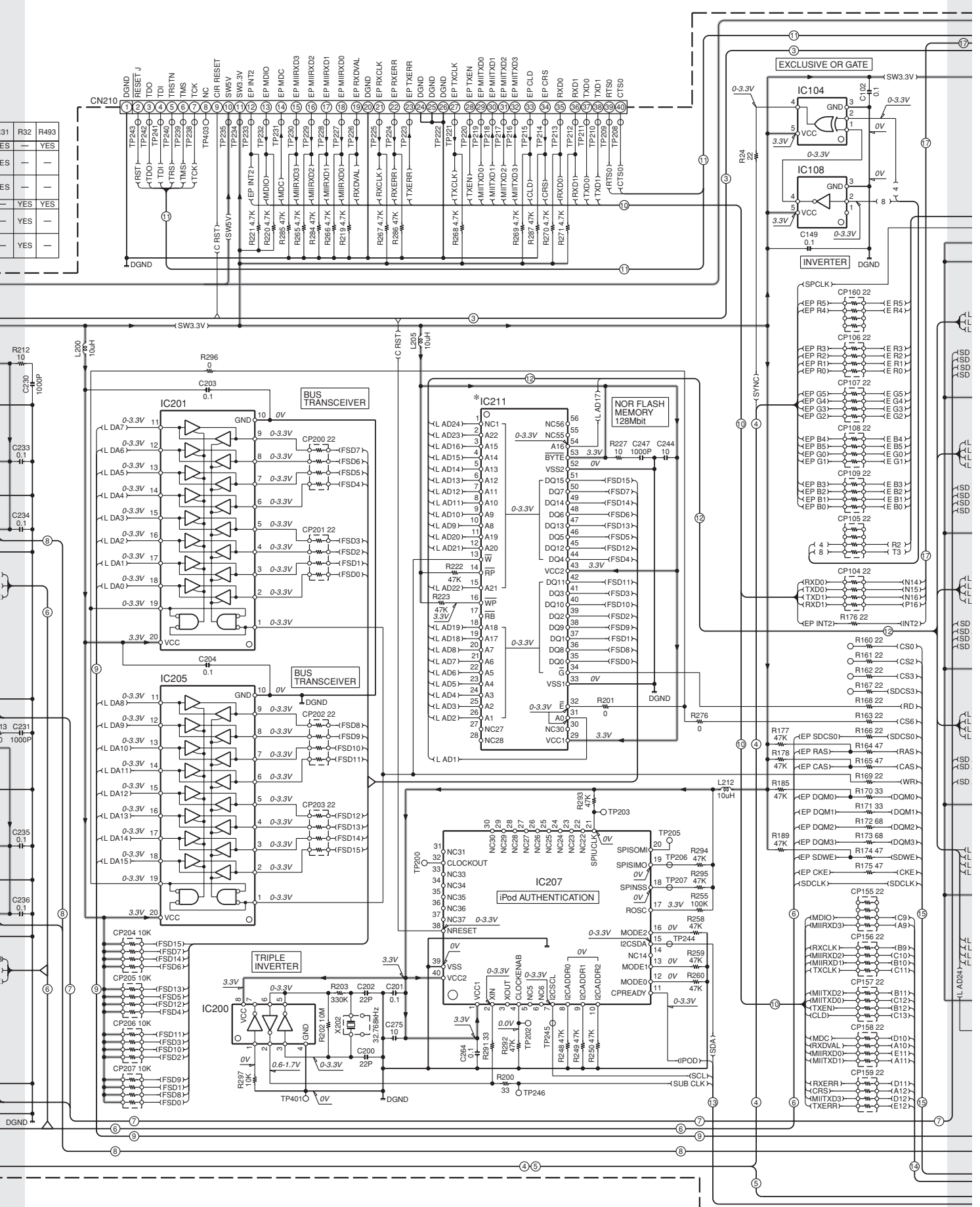
(X88-2020-1x)

MODEL NAME	UNIT No.	A	C	D	E	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	
KOS-V500	0-10	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KVT-719DVD KVT-729DVD/Y KVT-739DVD	0-11	—	YES	—	YES	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DDX7019 DDX7029/Y DDX7039	0-12	—	—	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KOS-V1000	0-13	YES	—	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KVT-819DVD KVT-829DVD/Y KVT-839DVD	0-14	—	YES	YES	YES	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DDX8019 DDX8029/Y DDX8039	0-15	—	YES	YES	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

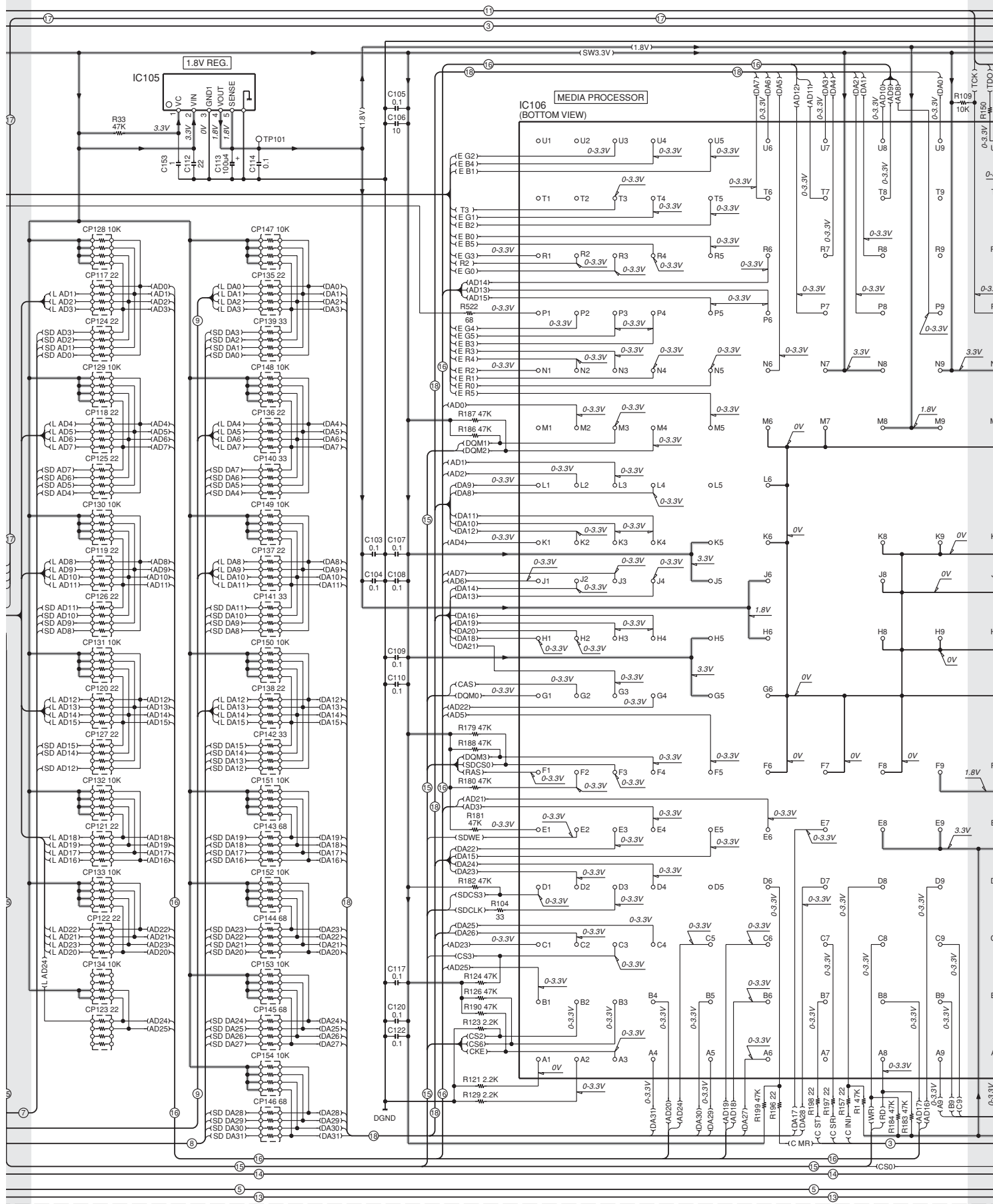


KOS-V1000/V500

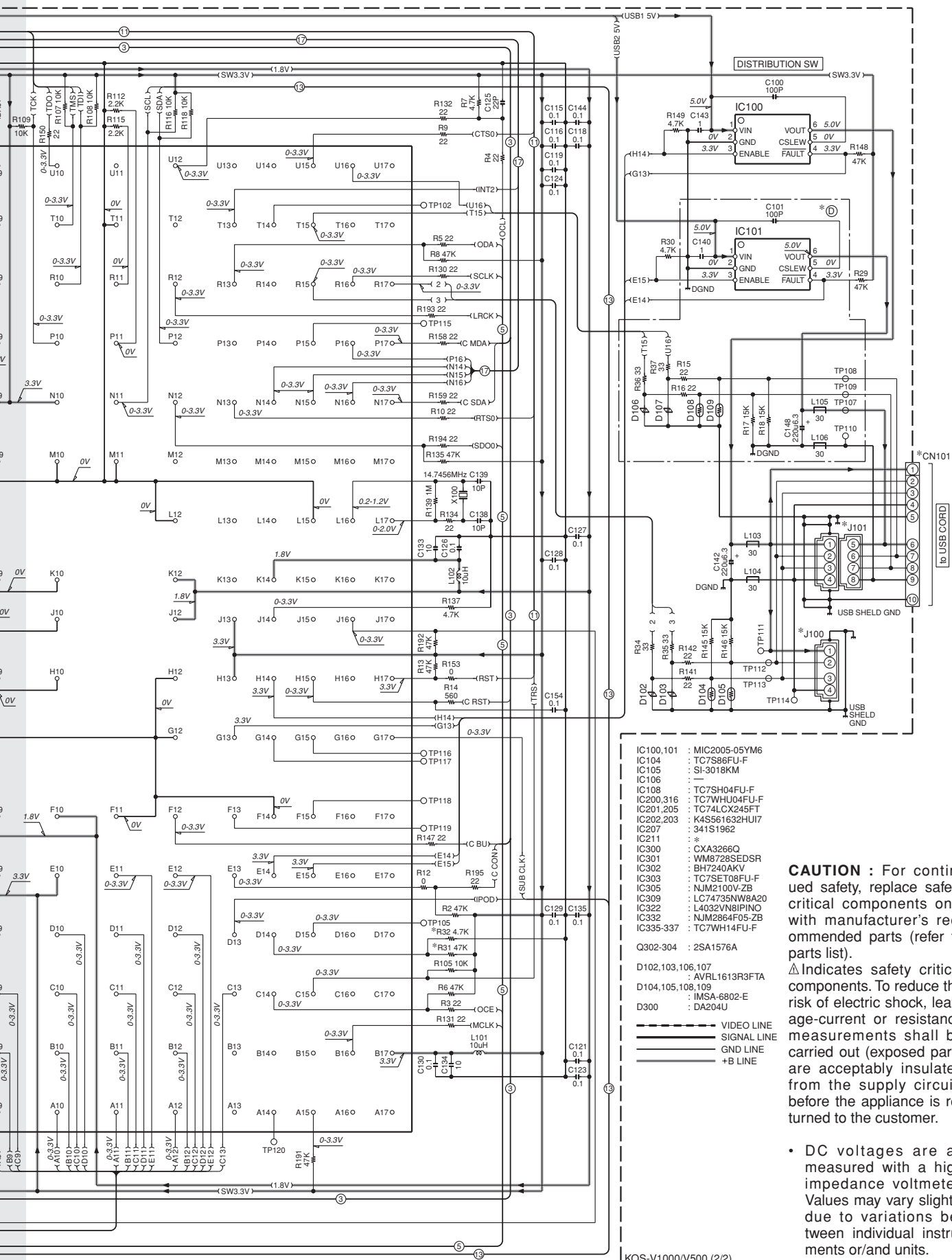
R31	R32	R493
ES	ES	ES
ES	ES	ES
ES	ES	ES
ES	ES	ES
ES	ES	ES



KOS-V1000/V500



KOS-V1000/V500



- IC100,101 : MIC2005-05YM6
- IC104 : TC7S86FU-F
- IC105 : SI-3018KM
- IC106 : *
- IC108 : TC7SH04FU-F
- IC200,316 : TC7WHU04FU-F
- IC201,205 : TC74LCX245FT
- IC202,203 : K4S561632HUI7
- IC207 : 341S1962
- IC211 : *
- IC300 : CXA3266Q
- IC301 : WM8728SEDSR
- IC302 : BH7240AKV
- IC309 : TC7SET08FU-F
- IC305 : NJM2100V-ZB
- IC309 : LC74735NW8A20
- IC322 : L4032VN8IPINO
- IC332 : NJM2864F05-ZB
- IC335-337 : TC7WH14FU-F

- Q302-304 : 2SA1576A
- D102,103,106,107 : AVR1613R3FTA
- D104,105,108,109 : IMSA-6802-E
- D300 : DA204U

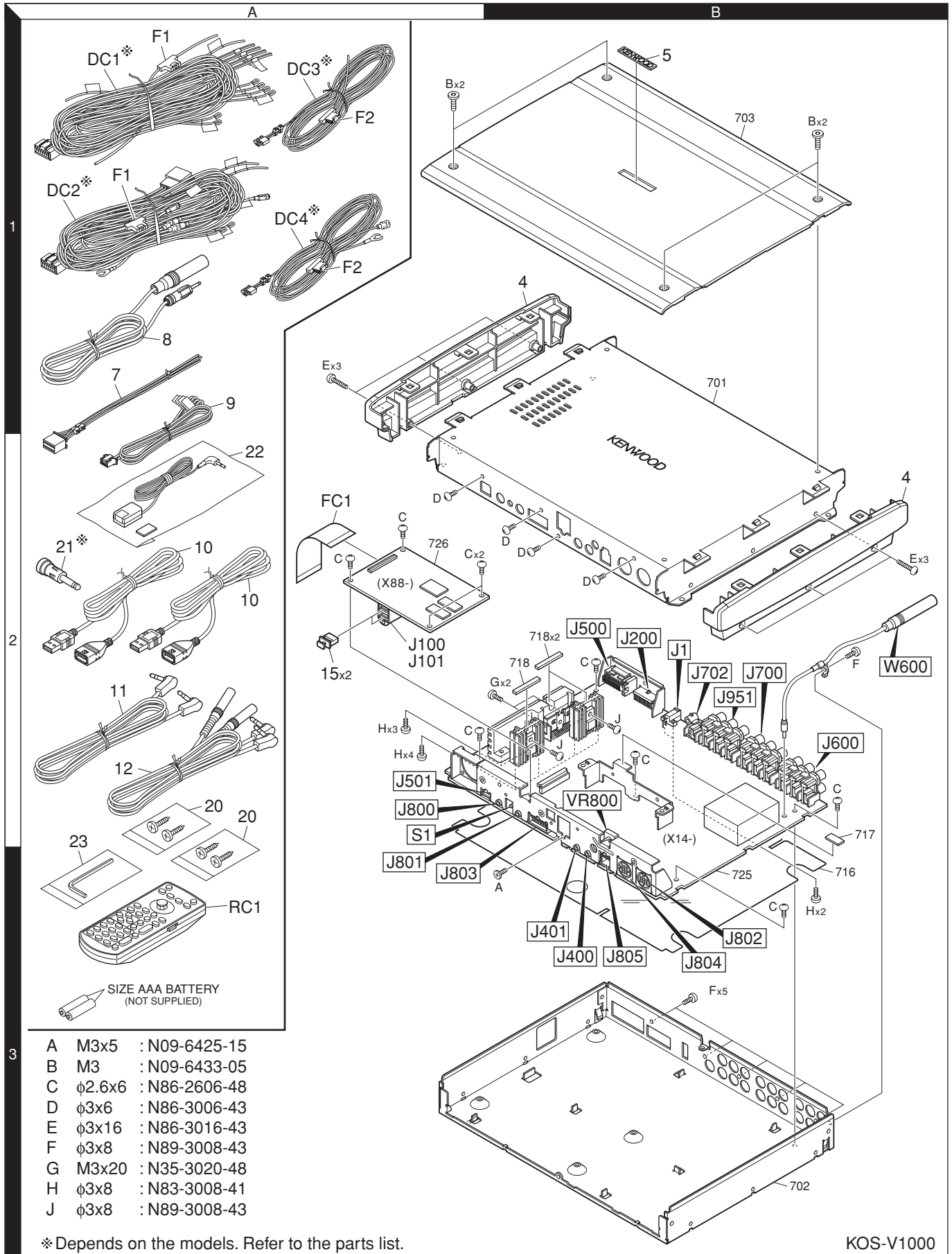
- VIDEO LINE
- SIGNAL LINE
- GND LINE
- +B LINE

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KOS-V1000/V500

EXPLODED VIEW (KOS-V1000)



- A M3x5 : N09-6425-15
- B M3 : N09-6433-05
- C ϕ 2.6x6 : N86-2606-48
- D ϕ 3x6 : N86-3006-43
- E ϕ 3x16 : N86-3016-43
- F ϕ 3x8 : N89-3008-43
- G M3x20 : N35-3020-48
- H ϕ 3x8 : N83-3008-41
- J ϕ 3x8 : N89-3008-43

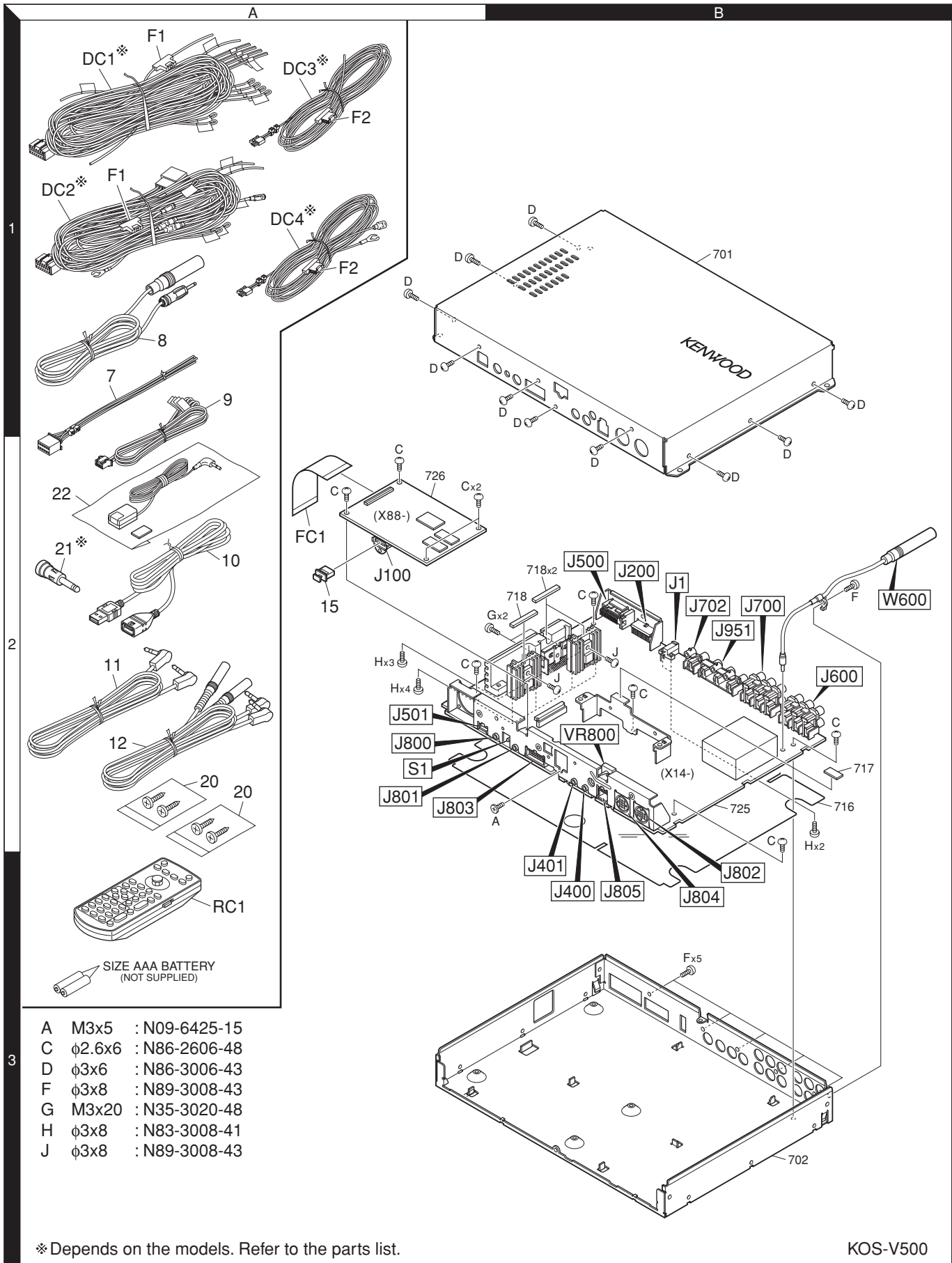
* Depends on the models. Refer to the parts list.

KOS-V1000

Parts with the exploded numbers larger than 700 are not supplied.

KOS-V1000/V500

EXPLODED VIEW (KOS-V500)



- A M3x5 : N09-6425-15
- C ϕ 2.6x6 : N86-2606-48
- D ϕ 3x6 : N86-3006-43
- F ϕ 3x8 : N89-3008-43
- G M3x20 : N35-3020-48
- H ϕ 3x8 : N83-3008-41
- J ϕ 3x8 : N89-3008-43

*Depends on the models. Refer to the parts list.

KOS-V500

KOS-V1000/V500

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
KOS-V1000/V500											
4	1B	*	A21-6604-02	DRESSING PANEL	K1M2E2	-		*	H54-3861-03	ITEM CARTON CASE	K
RC1	3A		A70-2082-15	REMOTE CONTROLLER ASSY		-		*	H54-3862-03	ITEM CARTON CASE	E1
5	1B		B43-0336-04	BADGE	K1M2E2	-		*	H54-3863-03	ITEM CARTON CASE	M1
-			B46-0612-14	ID CARD	E1M1E2	-		*	H54-3864-03	ITEM CARTON CASE	K1
-			B46-0612-14	ID CARD	M2	-		*	H54-3865-03	ITEM CARTON CASE	E2
-			B59-1880-00	SUB-INSTRUCTION MANUAL		-		*	H54-3866-03	ITEM CARTON CASE	M2
-		*	B64-3482-00	INSTRUCTION MANUAL (ENGLISH)	K	20	2A		N99-1782-05	SCREW SET	
-		*	B64-3483-00	INSTRUCTION MANUAL (ENGLISH)	E1	A	3B		N09-6425-15	MACHINE SCREW (M3.0X5)	
-		*	B64-3484-00	INSTRUCTION MANUAL (ENGLISH)	M1	B	1B		N09-6433-05	DRESSED SCREW (M3)	K1M2E2
-		*	B64-3584-00	INSTRUCTION MANUAL (ENGLISH)	K1	C	2B		N86-2606-48	BINDING HEAD TAPTITE SCREW	
-		*	B64-3585-00	INSTRUCTION MANUAL (ENGLISH)	E2	D	1B	*	N86-3006-43	BINDING HEAD TAPTITE SCREW	
-		*	B64-3586-00	INSTRUCTION MANUAL (ENGLISH)	M2	E	1A	*	N86-3016-43	BINDING HEAD TAPTITE SCREW	K1M2E2
-		*	B64-3788-00	INSTRUCTION MANUAL (FRENCH)	K1	F	3B		N89-3008-43	BINDING HEAD TAPTITE SCREW	
-		*	B64-3789-00	INSTRUCTION MANUAL (SPANISH)	K1	21	2A		T90-0552-05	ANTENNA ADAPTOR	E1E2
-		*	B64-3790-00	INSTRUCTION MANUAL (FRENCH)	E2	22	1A	*	T95-0273-05	REMOTE CONTROL SENSOR ASSY (6m)	
-		*	B64-3791-00	INSTRUCTION MANUAL (GERMAN)	E2	23	2A	*	W01-1699-05	ACCESSORIES	K1M2E2
-		*	B64-3792-00	INSTRUCTION MANUAL (DUTCH)	E2	VIDEO CONTROL UNIT(X14-982x-xx)					
-		*	B64-3793-00	INSTRUCTION MANUAL (ITALIAN)	E2	C1			CK73GB1H104K	CHIP C 0.10UF	K
-		*	B64-3794-00	INSTRUCTION MANUAL (SPANISH)	E2	C2			CK73FB1E474K	CHIP C 0.47UF	K
-		*	B64-3795-00	INSTRUCTION MANUAL (PORTUGUESE)	E2	C3		*	CD04AY1E471M	ELECTRO 470UF	25WV
-		*	B64-3796-00	INSTRUCTION MANUAL (S-CHINESE)	M2	C4			CK73GB1H104K	CHIP C 0.10UF	K
-		*	B64-3797-00	INSTRUCTION MANUAL (KOREAN)	M2	C6			CK73GB1H104K	CHIP C 0.10UF	K
-		*	B64-3798-00	INSTRUCTION MANUAL (FRENCH)	K	C7			CD04AY0J331M	ELECTRO 330UF	6.3WV
-		*	B64-3799-00	INSTRUCTION MANUAL (SPANISH)	K	C8			CD04BJ1A101M	ELECTRO 100UF	10WV
-		*	B64-3800-00	INSTRUCTION MANUAL (FRENCH)	E1	C9			CK73GB1H104K	CHIP C 0.10UF	K
-		*	B64-3801-00	INSTRUCTION MANUAL (GERMAN)	E1	C10			CD04AY1H220M	ELECTRO 22UF	50WV
-		*	B64-3802-00	INSTRUCTION MANUAL (DUTCH)	E1	C11			CK73EB1E225K	CHIP C 2.2UF	K
-		*	B64-3803-00	INSTRUCTION MANUAL (ITALIAN)	E1	C13			CD04AY1H220M	ELECTRO 22UF	50WV
-		*	B64-3804-00	INSTRUCTION MANUAL (SPANISH)	E1	C14			CD04AY1E470M	ELECTRO 47UF	25WV
-		*	B64-3805-00	INSTRUCTION MANUAL (PORTUGUESE)	E1	C15			CK73GB1H104K	CHIP C 0.10UF	K
-		*	B64-3806-00	INSTRUCTION MANUAL (S-CHINESE)	M1	C16			CK73GB1H103K	CHIP C 0.010UF	K
-		*	B64-3807-00	INSTRUCTION MANUAL (KOREAN)	M1	C17			CK73DF1E106Z	CHIP C 10UF	Z
7	1A		E30-6145-05	CONNECTING CORD ASSY (190mm)		C18			CK73FB1E154K	CHIP C 0.15UF	K
8	1A		E30-6483-05	CORD WITH PLUG (ANT 6m)		C19			CK73GB1H104K	CHIP C 0.10UF	K
9	1A		E30-6693-05	CORD WITH PLUG (RELAY 1m)	KM1E1	C20			CC73GCH1H151J	CHIP C 150PF	J
9	1A	*	E30-6694-05	CORD WITH PLUG (RELAY 1m)	K1M2E2	C21			CK73GB1C224K	CHIP C 0.22UF	K
10	2A	*	E30-6696-05	CORD WITH PLUG (USB 3.5m)		C22			CK73EB1E225K	CHIP C 2.2UF	K
11	2A	*	E30-6697-05	CORD WITH PLUG (MINI 3P 6m)		C23			CK73FB1C105K	CHIP C 1.0UF	K
12	2A	*	E30-6698-05	CORD WITH PLUG (MINI 3,2P 3.5m)		C24			CD04BJ1E470M	ELECTRO 47UF	25WV
DC1	1A	*	E30-6682-05	DC CORD (6m)	KM1K1	C25			CK73GB1H103K	CHIP C 0.010UF	K
DC1	1A	*	E30-6682-05	DC CORD (6m)	M2	C26			CD04BJ1E470M	ELECTRO 47UF	25WV
DC2	1A	*	E30-6683-05	DC CORD (6m)	E1E2	C27			CK73GB1H103K	CHIP C 0.010UF	K
DC3	1A	*	E30-6700-05	DC CORD (2P GND1.5m,BU6m)	KM1K1	C28			CD04BJ1E470M	ELECTRO 47UF	25WV
DC3	1A	*	E30-6700-05	DC CORD (2P GND1.5m,BU6m)	M2	C29			CK73GB1H104K	CHIP C 0.10UF	K
DC4	1A	*	E30-6699-05	DC CORD (2P GND1.5m,BU6m)	E1E2	C30			CD04BJ1E101M	ELECTRO 100UF	25WV
FC1	2A	*	E39-0913-05	FLAT CABLE		C33			CK73FB1C105K	CHIP C 1.0UF	K
J100	2A	*	E58-1068-05	RECTANGULAR RECEPTACLE (USB-1P)	KM1E1	C34			CD04AY1A221M	ELECTRO 220UF	10WV
J100,101	2A	*	E58-1052-05	RECTANGULAR RECEPTACLE (USB-2P)	K1M2E2	C36			CD04AY1E221M	ELECTRO 220UF	25WV
15	2A	*	F09-2890-04	CAP (USB)		C37			CK73GB1H103K	CHIP C 0.010UF	K
F1	1A		F05-1537-05	FUSE (BLADE TYPE) 15A		C100			CK73GB1H473K	CHIP C 0.047UF	K
F2	1A		F52-0004-05	FUSE (MINI BLADE TYPE) 5A		C102			CC73GCH1H221J	CHIP C 220PF	J
						C103			CK73GB1H102K	CHIP C 1000PF	K

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C104			CK73GB1H104K	CHIP C 0.10UF K		C221			CK73GB1H104K	CHIP C 0.10UF K	
C105			CK73GB1H102K	CHIP C 1000PF K		C222			CD04BJ1H100M	ELECTRO 10UF 50WV	
C106			CK73GB1H103K	CHIP C 0.010UF K		C223			CD04BJ1E101M	ELECTRO 100UF 25WV	
C107			CK73GB1H104K	CHIP C 0.10UF K		C224			CK73FB1C105K	CHIP C 1.0UF K	
C108			CK73EB1E225K	CHIP C 2.2UF K		C225			CK73GB1H104K	CHIP C 0.10UF K	
C109			CC73GCH1H101J	CHIP C 100PF J		C226			CD04BJ1H220M	ELECTRO 22UF 50WV	
C110			CC73GCH1H470J	CHIP C 47PF J		C227			CD04BJ1E101M	ELECTRO 100UF 25WV	
C111			CK73GB1H153K	CHIP C 0.015UF K		C228-230			CK73FB1C105K	CHIP C 1.0UF K	
C112			CK73GB1H104K	CHIP C 0.10UF K		C231			CK73GB1H103K	CHIP C 0.010UF K	
C113			CK73FB0J106K	CHIP C 10UF K		C232			CK73EB1A106K	CHIP C 10UF K	
C114			CC73GCH1H470J	CHIP C 47PF J		C233			CC73GCH1H470J	CHIP C 47PF J	
C115			CK73GB1H223K	CHIP C 0.022UF K		C234			CD04BJ1E470M	ELECTRO 47UF 25WV	
C116			CK73GB1H104K	CHIP C 0.10UF K		C235			CK73GB1H103K	CHIP C 0.010UF K	
C117			CK73GB1H102K	CHIP C 1000PF K		C236			CK73GB1H104K	CHIP C 0.10UF K	
C119			CC73GCH1H221J	CHIP C 220PF J		C240			CK73GB1A105K	CHIP C 1.0UF K	
C120			CK73GB1H683K	CHIP C 0.068UF K		C241-246			CK73GB1H103K	CHIP C 0.010UF K	
C121,122			CK73GB1H103K	CHIP C 0.010UF K		C247			CK73GB1A105K	CHIP C 1.0UF K	
C123			CK73GB1H102K	CHIP C 1000PF K		C248			CC73GCH1H821J	CHIP C 820PF J	
C124			CK73GB1H103K	CHIP C 0.010UF K		C249			CK73EB1A106K	CHIP C 10UF K	
C125			CK73GB1H102K	CHIP C 1000PF K		C250			CK73GB1A105K	CHIP C 1.0UF K	
C126			CK73GB1H103K	CHIP C 0.010UF K		C251			CD04BJ1H4R7M	ELECTRO 4.7UF 50WV	
C127			CK73GB1H102K	CHIP C 1000PF K		C252			CK73GB1H104K	CHIP C 0.10UF K	
C128			C93-1367-05	CHIP C 10UF K		C253			CK73GB1H682K	CHIP C 6800PF K	
C129			CK73GB1H102K	CHIP C 1000PF K		C255			CK73GB1H104K	CHIP C 0.10UF K	
C130			C93-1367-05	CHIP C 10UF K		C257,258			CK73GB1H103K	CHIP C 0.010UF K	
C131			CK73FB0J106K	CHIP C 10UF K		C259			CC73GCH1H050C	CHIP C 5.0PF C	
C132			CK73GB1H104K	CHIP C 0.10UF K		C260			CD04BJ1H4R7M	ELECTRO 4.7UF 50WV	
C133-136			CK73GB1H102K	CHIP C 1000PF K		C261			CK73GB1H104K	CHIP C 0.10UF K	
C137			CE32AV0G331M	CHIP EL 330UF 4.0WV		C262			CC73GCH1H080D	CHIP C 8.0PF D	
C138			CE32AV0J221M	CHIP EL 220UF 6.3WV		C263			CK73GB1A474K	CHIP C 0.47UF K	
C139-142			CK73GB1H103K	CHIP C 0.010UF K		C264,265			CK73GB1A105K	CHIP C 1.0UF K	
C143-146			CK73GB1C224K	CHIP C 0.22UF K		C267			CD04BJ1E470M	ELECTRO 47UF 25WV	
C191,192			CK73GB1H104K	CHIP C 0.10UF K		C268-270			CK73GB1A105K	CHIP C 1.0UF K	
C193			CC73GCH1H390J	CHIP C 39PF J		C271			CK73GB1H103K	CHIP C 0.010UF K	
C194			C93-1394-05	CHIP C 5PF J		C272-277			CK73GB1A105K	CHIP C 1.0UF K	
C199			CC73GCH1H101J	CHIP C 100PF J		C279,280			CK73GB1A105K	CHIP C 1.0UF K	
C200			C90-5612-05	ELECTRO 3900UF 16WV		C281-284			CK73GB1H104K	CHIP C 0.10UF K	
C201			CC73GCH1H101J	CHIP C 100PF J		C285			CK73GB1A105K	CHIP C 1.0UF K	
C202,203			CK73GB1H104K	CHIP C 0.10UF K		C286			CK73GB1H104K	CHIP C 0.10UF K	
C204			CK73GB1A105K	CHIP C 1.0UF K		C287			CK73GB1H103K	CHIP C 0.010UF K	
C205			CC73GCH1H331J	CHIP C 330PF J		C288,289			CK73GB1A105K	CHIP C 1.0UF K	
C206			CK73FB1C105K	CHIP C 1.0UF K		C291,292			CK73GB1H104K	CHIP C 0.10UF K	
C207,208			CK73GB1H104K	CHIP C 0.10UF K		C293			CC73GCH1H101J	CHIP C 100PF J	
C209			CK73GB1A105K	CHIP C 1.0UF K		C296			CK73GB1A105K	CHIP C 1.0UF K	
C210			CK73GB1H153K	CHIP C 0.015UF K		C297			CK73GB1H561K	CHIP C 560PF K	
C211			CK73EB1A475K	CHIP C 4.7UF K		C298			CK73GB1A105K	CHIP C 1.0UF K	
C212			CC73GCH1H151J	CHIP C 150PF J		C299			CK73GB1H561K	CHIP C 560PF K	
C213			CC73GCH1H102J	CHIP C 1000PF J		C300			CK73GB1H104K	CHIP C 0.10UF K	
C214			CK73GB1H104K	CHIP C 0.10UF K		C301			CK73GB1H103K	CHIP C 0.010UF K	
C215			CD04BJ0J331M	ELECTRO 330UF 6.3WV		C302			CK73GB1H104K	CHIP C 0.10UF K	
C216			CC73GCH1H150J	CHIP C 15PF J		C303,304			CC73GCH1H220J	CHIP C 22PF J	
C217			CD04BJ1H220M	ELECTRO 22UF 50WV		C305-307			CK73GB1H103K	CHIP C 0.010UF K	
C218			CD04BJ1E101M	ELECTRO 100UF 25WV		C308-311			CK73GB1H104K	CHIP C 0.10UF K	
C219			CD04BJ1H220M	ELECTRO 22UF 50WV		C312			CD04BJ1E101M	ELECTRO 100UF 25WV	
C220			CD04BJ1E101M	ELECTRO 100UF 25WV		C313			CK73GB1H104K	CHIP C 0.10UF K	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C314			CD04AY1H100M	ELECTRO 10UF 50WV		C538			CC73GCH1H221J	CHIP C 220PF J	
C315,316			CK73GB1H104K	CHIP C 0.10UF K		C539			CK73GB1H222K	CHIP C 2200PF K	
C317			CD04BJ1E101M	ELECTRO 100UF 25WV		C540			CC73GCH1H220J	CHIP C 22PF J	
C318			CD04AY1H100M	ELECTRO 10UF 50WV		C541			CC73GCH1H221J	CHIP C 220PF J	
C319			CK73GB1H104K	CHIP C 0.10UF K		C542			CK73GB1H222K	CHIP C 2200PF K	
C320			CD04AY1E470M	ELECTRO 47UF 25WV		C543			CC73GCH1H220J	CHIP C 22PF J	
C321			CK73GB1H104K	CHIP C 0.10UF K		C544			CC73GCH1H221J	CHIP C 220PF J	
C322			CK73FB0J475K	CHIP C 4.7UF K		C545			CK73GB1H222K	CHIP C 2200PF K	
C323			CK73GB1H103K	CHIP C 0.010UF K		C546			CC73GCH1H220J	CHIP C 22PF J	
C324			CD04BJ1E101M	ELECTRO 100UF 25WV		C547			CC73GCH1H221J	CHIP C 220PF J	
C325-328			CK73GB1H104K	CHIP C 0.10UF K		C548			CK73GB1H222K	CHIP C 2200PF K	
C400			CK73GB1H103K	CHIP C 0.010UF K		C551-553			CC73GCH1H221J	CHIP C 220PF J	K1M2E2
C401			CD04BJ1E470M	ELECTRO 47UF 25WV		C551-557			CC73GCH1H471J	CHIP C 470PF J	KM1E1
C402			CK73GB1H103K	CHIP C 0.010UF K		C561-564			CC73GCH1H471J	CHIP C 470PF J	K1M2E2
C403-405			CD04BJ1HR47M	ELECTRO 0.47UF 50WV		C600,601			CC73GCH1H101J	CHIP C 100PF J	
C406,407			CK73GB1H471K	CHIP C 470PF K		C602,603			CK73FB1E474K	CHIP C 0.47UF K	
C408			CD04BJ1HR47M	ELECTRO 0.47UF 50WV		C604			CC73GCH1H101J	CHIP C 100PF J	
C411,412			CK73FB1A225K	CHIP C 2.2UF K		C605,606			CD04BJ1H3R3M	ELECTRO 3.3UF 50WV	
C413			CK73GB1A105K	CHIP C 1.0UF K		C607			CC73GCH1H101J	CHIP C 100PF J	
C414			CK73GB1H103K	CHIP C 0.010UF K		C608			CK73FB1C105K	CHIP C 1.0UF K	
C415,416			CK73GB1H223K	CHIP C 0.022UF K		C609-612			CK73FB1E474K	CHIP C 0.47UF K	
C451			CK73GB1H103K	CHIP C 0.010UF K		C614-616			CD04BJ1H010M	ELECTRO 1.0UF 50WV	
C452			CD04BJ1E470M	ELECTRO 47UF 25WV		C617,618			CC73GCH1H101J	CHIP C 100PF J	
C453-455			CC73GCH1H470J	CHIP C 47PF J		C619			CD04BJ1H100M	ELECTRO 10UF 50WV	
C500			CK73FB1C105K	CHIP C 1.0UF K		C620-623			CC73GCH1H101J	CHIP C 100PF J	
C501			CK73GB1H103K	CHIP C 0.010UF K		C624			CK73GB1H103K	CHIP C 0.010UF K	
C502,503			CK73FB1C105K	CHIP C 1.0UF K		C625			CK73GB1H152K	CHIP C 1500PF K	
C504,505			CK73GB1H103K	CHIP C 0.010UF K		C626,627			CK73FB1C105K	CHIP C 1.0UF K	
C507			CK73GB1H223K	CHIP C 0.022UF K		C628			CK73GB1H152K	CHIP C 1500PF K	
C508			C90-6794-05	ELECTRO 6800UF 16WV		C629			CD04BJ1E470M	ELECTRO 47UF 25WV	
C509			CK73FB1A335K	CHIP C 3.3UF K		C630			CC73GCH1H150J	CHIP C 15PF J	
C510			CK73FB1C105K	CHIP C 1.0UF K		C631			CC73GCH1H221J	CHIP C 220PF J	
C511			CK73GB1H104K	CHIP C 0.10UF K		C632			CC73GCH1H150J	CHIP C 15PF J	
C512			CK73GB1H103K	CHIP C 0.010UF K		C633			CC73GCH1H221J	CHIP C 220PF J	
C513			CK73GB1H223K	CHIP C 0.022UF K		C634,635			C90-6779-05	ELECTRO 0.47UF 16WV	
C516			CD04AY0J331M	ELECTRO 330UF 6.3WV		C636			CC73GCH1H150J	CHIP C 15PF J	
C517			CK73GB1A105K	CHIP C 1.0UF K		C637			CC73GCH1H221J	CHIP C 220PF J	
C518			CD04AY1A221M	ELECTRO 220UF 10WV		C638			CC73GCH1H150J	CHIP C 15PF J	
C521			CK73GB1H473K	CHIP C 0.047UF K		C639			CC73GCH1H221J	CHIP C 220PF J	
C522			CK73EB1E105K	CHIP C 1.0UF K		C640,641			C90-6780-05	ELECTRO 1UF 16WV	
C523			CK73GB1H473K	CHIP C 0.047UF K		C642,643			CC73GCH1H150J	CHIP C 15PF J	
C524			CK73EB1E105K	CHIP C 1.0UF K		C644			CK73GB1A105K	CHIP C 1.0UF K	
C525			CC73GCH1H220J	CHIP C 22PF J		C645,646			C90-6779-05	ELECTRO 0.47UF 16WV	
C526			CC73GCH1H221J	CHIP C 220PF J		C647			CD04BM1E330M	ELECTRO 33UF 25WV	KM1E1
C527			CK73GB1H222K	CHIP C 2200PF K		C648,649			CC73GCH1H150J	CHIP C 15PF J	
C528			CC73GCH1H220J	CHIP C 22PF J		C650			CK73GB1A105K	CHIP C 1.0UF K	
C529			CC73GCH1H221J	CHIP C 220PF J		C651-654			CC73GCH1H221J	CHIP C 220PF J	
C530			CK73GB1H222K	CHIP C 2200PF K		C655,656			CK73GB1H103K	CHIP C 0.010UF K	
C531			CC73GCH1H220J	CHIP C 22PF J		C657			CD04BJ1H100M	ELECTRO 10UF 50WV	
C532			CC73GCH1H221J	CHIP C 220PF J		C658,659			CK73GB1H103K	CHIP C 0.010UF K	
C533			CK73GB1H222K	CHIP C 2200PF K		C660			CD04BJ1H100M	ELECTRO 10UF 50WV	
C534			CC73GCH1H220J	CHIP C 22PF J		C661,662			CK73GB1H102K	CHIP C 1000PF K	KM1E1
C535			CC73GCH1H221J	CHIP C 220PF J		C663			CD04BJ1H100M	ELECTRO 10UF 50WV	
C536			CK73GB1H222K	CHIP C 2200PF K		C664			CC73GCH1H050C	CHIP C 5.0PF C	K1M2E2
C537			CC73GCH1H220J	CHIP C 22PF J		C665			CD04BJ1H100M	ELECTRO 10UF 50WV	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C666,667			CK73GB1H102K	CHIP C 1000PF K	KM1E1	C764			CD04BJ1H100M	ELECTRO 10UF 50WV	K1M2E2
C668,669			CD04BJ1H100M	ELECTRO 10UF 50WV		C765			CK73GB1A105K	CHIP C 1.0UF K	E1K1M2
C670,671			CK73GB1H102K	CHIP C 1000PF K	KM1E1	C765			CK73GB1A105K	CHIP C 1.0UF K	E2
C672			CD04BJ1H100M	ELECTRO 10UF 50WV		C766			CK73GB1H104K	CHIP C 0.10UF K	KE1K1
C673-675			CK73GB1H104K	CHIP C 0.10UF K		C766			CK73GB1H104K	CHIP C 0.10UF K	M2E2
C676-679			CD04BJ1A101M	ELECTRO 100UF 10WV		C767			CK73EB1C106K	CHIP C 10UF K	K1M2E2
C680-683			CK73GB1H103K	CHIP C 0.010UF K		C771-774			CC73GCH1H681J	CHIP C 680PF J	
C685-688			CC73GCH1H101J	CHIP C 100PF J		C800			CK73GB1H104K	CHIP C 0.10UF K	
C689,690			CC73GCH1H100D	CHIP C 10PF D		C801			CK73GB1H103K	CHIP C 0.010UF K	
C691			CD04BJ1H100M	ELECTRO 10UF 50WV		C802			CK73GB1H104K	CHIP C 0.10UF K	
C692			CC73GCH1H331J	CHIP C 330PF J		C803			CD04BJ1HR47M	ELECTRO 0.47UF 50WV	
C693			CK73GB1H103K	CHIP C 0.010UF K		C804			CD04BJ1E470M	ELECTRO 47UF 25WV	
C694			CD04BJ1H100M	ELECTRO 10UF 50WV		C805-807			CD04BJ1HR47M	ELECTRO 0.47UF 50WV	
C696,697			CK73GB1H223K	CHIP C 0.022UF K		C808			CK73GB1H103K	CHIP C 0.010UF K	
C700			CK73GB1A105K	CHIP C 1.0UF K	KM1K1	C809			CD04BJ1H100M	ELECTRO 10UF 50WV	
C700			CK73GB1A105K	CHIP C 1.0UF K	M2	C810			CK73GB1H103K	CHIP C 0.010UF K	
C700-705			CK73GB1A105K	CHIP C 1.0UF K	E1E2	C811			CD04BJ1H220M	ELECTRO 22UF 50WV	
C702			CK73GB1A105K	CHIP C 1.0UF K	KM1K1	C812			CD04BJ1H010M	ELECTRO 1.0UF 50WV	
C702			CK73GB1A105K	CHIP C 1.0UF K	M2	C813			CD04BJ1E470M	ELECTRO 47UF 25WV	
C704			CK73GB1A105K	CHIP C 1.0UF K	KM1K1	C814			CD04BJ1H010M	ELECTRO 1.0UF 50WV	
C704			CK73GB1A105K	CHIP C 1.0UF K	M2	C817			CK73GB1H103K	CHIP C 0.010UF K	
C706			CK73GB1H104K	CHIP C 0.10UF K	E1K1E2	C818			CD04BJ1H220M	ELECTRO 22UF 50WV	
C707			CD04BJ1H220M	ELECTRO 22UF 50WV	E1E2	C819,820			CD04BJ1E470M	ELECTRO 47UF 25WV	
C708-710			CK73GB1A105K	CHIP C 1.0UF K		C821			CK73GB1H104K	CHIP C 0.10UF K	KM1E1
C711			CK73GB1H104K	CHIP C 0.10UF K		C821			CK73GB1H104K	CHIP C 0.10UF K	K1
C712			CK73GB1H561K	CHIP C 560PF K		C822			CK73GB1H103K	CHIP C 0.010UF K	
C713			CK73GB1A105K	CHIP C 1.0UF K		C823,824			CD04BJ1E470M	ELECTRO 47UF 25WV	
C714			CK73GB1H561K	CHIP C 560PF K		C825,826			CC73GCH1H101J	CHIP C 100PF J	
C715			CK73GB1H104K	CHIP C 0.10UF K		C827			CD04BJ1H100M	ELECTRO 10UF 50WV	KM1E1
C716			CK73EB0J226K	CHIP C 22UF K		C828			CK73GB1H103K	CHIP C 0.010UF K	KM1E1
C717-725			CK73GB1A105K	CHIP C 1.0UF K		C829,830			CC73GCH1H150J	CHIP C 15PF J	
C726			CK73EB0J226K	CHIP C 22UF K		C831			CK73GB1H103K	CHIP C 0.010UF K	
C727,728			CK73GB1H104K	CHIP C 0.10UF K		C832,833			CC73GCH1H101J	CHIP C 100PF J	
C729			CK73GB1A105K	CHIP C 1.0UF K		C834			CK73GB1H103K	CHIP C 0.010UF K	
C730			CK73GB1H104K	CHIP C 0.10UF K		C835-838			CD04BJ1H100M	ELECTRO 10UF 50WV	
C731			CD04BJ0J331M	ELECTRO 330UF 6.3WV		C839			CK73GB1H103K	CHIP C 0.010UF K	
C732			CK73GB1H104K	CHIP C 0.10UF K		C900			CK73GB1H104K	CHIP C 0.10UF K	KK1
C736			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C901			CK73GB1H102K	CHIP C 1000PF K	
C737			CC73GCH1H471J	CHIP C 470PF J		C902			CD04BJ0J331M	ELECTRO 330UF 6.3WV	
C738			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C903			CK73GB1H103K	CHIP C 0.010UF K	
C739			CC73GCH1H471J	CHIP C 470PF J		C904,905			CK73GB1H104K	CHIP C 0.10UF K	
C740,741			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C906			CK73GB1H103K	CHIP C 0.010UF K	
C742			CC73GCH1H471J	CHIP C 470PF J		C907			CK73GB1H104K	CHIP C 0.10UF K	
C743			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C908			CK73GB1A105K	CHIP C 1.0UF K	
C744			CC73GCH1H471J	CHIP C 470PF J		C909,910			CK73GB1H104K	CHIP C 0.10UF K	
C745			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C911			CK73GB1H103K	CHIP C 0.010UF K	
C746			CD04BJ1H100M	ELECTRO 10UF 50WV		C913			CK73GB1E154K	CHIP C 0.15UF K	
C747,748			CK73GB1H103K	CHIP C 0.010UF K		C914			CK73GB1H104K	CHIP C 0.10UF K	KE1K1
C750,751			CD04BJ1E470M	ELECTRO 47UF 25WV		C914			CK73GB1H104K	CHIP C 0.10UF K	M2E2
C752			CK73GB1H104K	CHIP C 0.10UF K		C914			CK73GB1H223K	CHIP C 0.022UF K	KM1E1
C753			CD04BJ1H100M	ELECTRO 10UF 50WV		C917,918			CD04BJ1H010M	ELECTRO 1.0UF 50WV	
C754			CK73GB1H102K	CHIP C 1000PF K		C920,921			CD04AY1H100M	ELECTRO 10UF 50WV	
C756			CK73GB1H102K	CHIP C 1000PF K		C951			CK73GB1H102K	CHIP C 1000PF K	K1M2E2
C757			CD04BJ1H100M	ELECTRO 10UF 50WV		C952			CK73GB1H473K	CHIP C 0.047UF K	K1M2E2
C760,761			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C953			CK73EB1E105K	CHIP C 1.0UF K	K1M2E2

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)

M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

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KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C954			CK73GB1H473K	CHIP C 0.047UF K	K1M2E2	L100,101			L33-2369-05	CHOKE COIL (10UH)	
C955			CK73EB1E105K	CHIP C 1.0UF K	K1M2E2	L102			L33-2417-05	CHOKE COIL (10UH)	
C956			CK73GB1A105K	CHIP C 1.0UF K		L103			L33-2370-05	CHOKE COIL (10UH)	
C957,958			CK73GB1H104K	CHIP C 0.10UF K	KE1K1	L201,202			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C957,958			CK73GB1H104K	CHIP C 0.10UF K	M2E2	L203			L92-0319-05	CHIP FERRITE	
C959			CD04BJ0J331M	ELECTRO 330UF 6.3WV	K1M2E2	L205,206			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C961			CD04BJ1H100M	ELECTRO 10UF 50WV	K1M2E2	L211-215			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C962,963			CK73GB1H102K	CHIP C 1000PF K	K1M2E2	L300,301			L92-0319-05	CHIP FERRITE	
C964			CD04BJ1H100M	ELECTRO 10UF 50WV	K1M2E2	L400			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C965-970			CK73GB1H103K	CHIP C 0.010UF K		L401			L92-0319-05	CHIP FERRITE	
C971-975			CK73GB1H102K	CHIP C 1000PF K	K1M2E2	L402			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C976-987			CD04BJ1H100M	ELECTRO 10UF 50WV	K1M2E2	L451			L92-0319-05	CHIP FERRITE	
C988			CD04BJ1H220M	ELECTRO 22UF 50WV	K1M2E2	L500	*		L33-2348-05	CHOKE COIL	
C989			CC73GCH1H102J	CHIP C 1000PF J	K1M2E2	L600-605			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
C991			CK73GB1H104K	CHIP C 0.10UF K	KE1K1	L700-702			L41-1005-33	SMALL FIXED INDUCTOR (10U)	E1E2
C991			CK73GB1H104K	CHIP C 0.10UF K	M2E2	L701,702			L41-1005-33	SMALL FIXED INDUCTOR (10U)	KM1K1
C992			CD04BJ1H100M	ELECTRO 10UF 50WV	K1M2E2	L701,702			L41-1005-33	SMALL FIXED INDUCTOR (10U)	M2
C993			CD04BJ1H220M	ELECTRO 22UF 50WV	K1M2E2	L900			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
C994			CD04BJ1H100M	ELECTRO 10UF 50WV	K1M2E2	L951			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C995			CK73GB1H104K	CHIP C 0.10UF K	KE1K1	X200			L78-0549-05	RESONATOR (15.734KHZ)	
C995			CK73GB1H104K	CHIP C 0.10UF K	M2E2	X201			L77-2906-05	CRYSTAL RESONATOR (4.433619MHZ)	
C996			CK73EB0J226K	CHIP C 22UF K		X202			L77-2905-05	CRYSTAL RESONATOR (3.579545MHZ)	
C997,998			CC73GCH1H102J	CHIP C 1000PF J	K1M2E2	X300			L78-1210-05	RESONATOR (4.95MHZ)	
						X301			L77-2917-15	CRYSTAL RESONATOR (32.768KHZ)	
						X600			L77-2002-05	CRYSTAL RESONATOR	
CN202,203			E41-2637-05	PIN ASSY		X900			L78-1220-05	RESONATOR (19.8000MHZ)	
CN301			E41-2590-05	FLAT CABLE CONNECTOR							
J1			E58-0967-05	RECTANGULAR RECEPTACLE		G	2B		N35-3020-48	BINDING HEAD MACHINE SCREW	
J200			E58-1035-05	RECTANGULAR RECEPTACLE		H	2B	*	N83-3008-41	PAN HEAD TAPTITE SCREW	
J400	*		E11-0653-05	3.5D PHONE JACK (LGY3309-0101 (B		J	2B		N89-3008-43	BINDING HEAD TAPTITE SCREW	
J401	*		E11-0652-05	3.5D PHONE JACK (LGY3309-0140 (Y		R7			RK73GH2A363D	CHIP R 36K D 1/10W	
J500	*		E58-1043-05	RECTANGULAR RECEPTACLE		R8			RK73GH2A113D	CHIP R 11K D 1/10W	
J501	*		E58-1067-05	RECTANGULAR RECEPTACLE		R9			RK73GB2A104J	CHIP R 100K J 1/10W	
J600			E63-0944-05	PIN JACK	KM1E1	R10			RK73GB2A000J	CHIP R 0.0 J 1/10W	
J600	*		E63-0949-05	PIN JACK	K1M2E2	R11			RK73EB2E332J	CHIP R 3.3K J 1/4W	
J700			E63-0942-05	PIN JACK		R12			RK73GB2A153J	CHIP R 15K J 1/10W	
J702	*		E63-0946-05	PIN JACK		R13			RK73GB2A752J	CHIP R 7.5K J 1/10W	
J800			E11-0647-05	3.5D PHONE JACK (LGY3309-0150 (G		R14			RK73GB2A473J	CHIP R 47K J 1/10W	
J801	*		E11-0653-05	3.5D PHONE JACK (LGY3309-0101 (B		R15			RK73EB2E000J	CHIP R 0.0 J 1/4W	
J802			E56-0865-05	CYLINDRICAL RECEPTACLE		R16			RK73GB2A823J	CHIP R 82K J 1/10W	
J803			E58-1034-05	RECTANGULAR RECEPTACLE		R17			RK73GB2A103J	CHIP R 10K J 1/10W	
J804			E56-0864-05	CYLINDRICAL RECEPTACLE		R18			RK73GB2A224J	CHIP R 220K J 1/10W	
J805			E58-1031-05	RECTANGULAR RECEPTACLE		R19			RK73GB2A333J	CHIP R 33K J 1/10W	
J951			E63-0942-05	PIN JACK	K1M2E2	R20			RK73GB2A224J	CHIP R 220K J 1/10W	
J951			E63-0943-05	PIN JACK	KM1E1	R21			RK73GB2A103J	CHIP R 10K J 1/10W	
W600			E30-6492-05	CORD WITH PLUG (ANT)		R22			RK73GB2A222J	CHIP R 2.2K J 1/10W	
F1			F53-0374-05	FUSE 1.5A		R23			RK73GB2A101J	CHIP R 100 J 1/10W	
F500			F53-0297-05	FUSE (UL,CSA) 1.6A		R25			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L1			L41-3392-13	SMALL FIXED INDUCTOR (3.3UH)		R27			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L2			L41-4792-13	SMALL FIXED INDUCTOR (4.7UH)		R28			RK73GB2A103J	CHIP R 10K J 1/10W	
L3			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R29			RK73GH2A104D	CHIP R 100K D 1/10W	
L4,5			L41-3392-13	SMALL FIXED INDUCTOR (3.3UH)		R30			RK73GH2A113D	CHIP R 11K D 1/10W	
L6,7			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R31			RK73GH2A823D	CHIP R 82K D 1/10W	
L8			L92-0371-05	FERRITE CORE		R32			RK73GH2A103D	CHIP R 10K D 1/10W	
L10			L33-2283-05	CHOKE COIL (140UH)		R33			RK73GB2A473J	CHIP R 47K J 1/10W	

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KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R34			RK73PB2H220J	CHIP R 22 J 1/2W		R228,229			RK73GB2A220J	CHIP R 22 J 1/10W	
R35			RK73GB2A000J	CHIP R 0.0 J 1/10W		R230			RK73GB2A103J	CHIP R 10K J 1/10W	
R37			RK73PB2H300J	CHIP R 30 J 1/2W		R231-233			RK73GH2A182D	CHIP R 1.8K D 1/10W	
R39			RK73EB2E000J	CHIP R 0.0 J 1/4W		R234			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R41			RK73GH2A153D	CHIP R 15K D 1/10W		R235			RK73GH2A122D	CHIP R 1.2K D 1/10W	
R42			RK73GH2A512D	CHIP R 5.1K D 1/10W		R236,237			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R43			RK73GB2A000J	CHIP R 0.0 J 1/10W		R238			RK73GH2A393D	CHIP R 39K D 1/10W	
R45			RK73PB2H300J	CHIP R 30 J 1/2W		R239-241			RK73GH2A303D	CHIP R 30K D 1/10W	
R46,47			RK73GB2A223J	CHIP R 22K J 1/10W		R242			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R50			RK73GB2A102J	CHIP R 1.0K J 1/10W		R243			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R54			RK73EB2E222J	CHIP R 2.2K J 1/4W		R246,247			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R55			RK73GB2A472J	CHIP R 4.7K J 1/10W		R249			RK73GB2A101J	CHIP R 100 J 1/10W	
R56			RK73GB2A473J	CHIP R 47K J 1/10W		R251			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R73,74			RK73FB2B221J	CHIP R 220 J 1/8W		R252			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R75			RK73GH2A103D	CHIP R 10K D 1/10W		R253			RK73GB2A473J	CHIP R 47K J 1/10W	
R101			RK73GB2A104J	CHIP R 100K J 1/10W		R254			RK73GB2A101J	CHIP R 100 J 1/10W	
R102			RK73EB2E100J	CHIP R 10 J 1/4W		R255			RK73GB2A681J	CHIP R 680 J 1/10W	
R104			RK73GH2A333D	CHIP R 33K D 1/10W		R256			RK73GH2A183D	CHIP R 18K D 1/10W	
R105			RK73GH2A103D	CHIP R 10K D 1/10W		R257			RK73GB2A103J	CHIP R 10K J 1/10W	
R106			RK73GH2A561D	CHIP R 560 D 1/10W		R258			RK73GB2A394J	CHIP R 390K J 1/10W	
R107			RK73GB2A103J	CHIP R 10K J 1/10W		R259-264			RK73GB2A101J	CHIP R 100 J 1/10W	
R109,110			RK73GB2A000J	CHIP R 0.0 J 1/10W		R265			RK73GB2A103J	CHIP R 10K J 1/10W	
R111			RK73GB2A683J	CHIP R 68K J 1/10W		R266			RK73GB2A561J	CHIP R 560 J 1/10W	
R113			RK73GB2A000J	CHIP R 0.0 J 1/10W		R267,268			RK73GB2A101J	CHIP R 100 J 1/10W	
R114			RK73GB2A683J	CHIP R 68K J 1/10W		R269			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R115			RK73GH2A333D	CHIP R 33K D 1/10W		R270			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R116			RK73GH2A562D	CHIP R 5.6K D 1/10W		R271			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R117			RK73GH2A681D	CHIP R 680 D 1/10W		R272			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R118			RK73GB2A101J	CHIP R 100 J 1/10W		R273			RK73GH2A681D	CHIP R 680 D 1/10W	
R120			RK73GB2A220J	CHIP R 22 J 1/10W		R274			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R121			RK73GB2A000J	CHIP R 0.0 J 1/10W		R275-277			RK73GH2A362D	CHIP R 3.6K D 1/10W	
R122			RK73GB2A220J	CHIP R 22 J 1/10W		R278			RK73GB2A101J	CHIP R 100 J 1/10W	
R123			RK73GB2A000J	CHIP R 0.0 J 1/10W		R280			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R124,125			RK73EB2E100J	CHIP R 10 J 1/4W		R281			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R128,129			RK73GB2A000J	CHIP R 0.0 J 1/10W		R282			RK73GB2A101J	CHIP R 100 J 1/10W	
R130,131			RK73EB2E100J	CHIP R 10 J 1/4W		R283			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R132,133			R92-5159-05	CHIP R 0.033 J 1/4W		R284-286			RK73GB2A101J	CHIP R 100 J 1/10W	
R134,135			R92-5158-05	CHIP R 0.022 J 1/4W		R287			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R136,137			RK73EB2E102J	CHIP R 1.0K J 1/4W		R288			RK73GB2A101J	CHIP R 100 J 1/10W	
R138-141			RK73GB2A000J	CHIP R 0.0 J 1/10W		R289			RK73GB2A561J	CHIP R 560 J 1/10W	
R199			RK73GH2A271D	CHIP R 270 D 1/10W		R290			RK73GB2A101J	CHIP R 100 J 1/10W	
R200-203			RK73EB2E750J	CHIP R 75 J 1/4W		R291			RK73GB2A473J	CHIP R 47K J 1/10W	
R204-213			RK73EB2E101J	CHIP R 100 J 1/4W		R292			RK73GB2A334J	CHIP R 330K J 1/10W	
R214			RK73GB2A103J	CHIP R 10K J 1/10W		R293			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R215			RK73GB2A331J	CHIP R 330 J 1/10W		R294			RK73GB2A473J	CHIP R 47K J 1/10W	
R216			RK73GB2A914J	CHIP R 910K J 1/10W		R295,296			RK73GB2A101J	CHIP R 100 J 1/10W	
R217,218			RK73GB2A101J	CHIP R 100 J 1/10W		R297			RK73GB2A100J	CHIP R 10 J 1/10W	
R219			RK73GH2A182D	CHIP R 1.8K D 1/10W		R298,299			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R220			RK73GH2A471D	CHIP R 470 D 1/10W		R300-304			RK73GB2A101J	CHIP R 100 J 1/10W	
R221			RK73GB2A103J	CHIP R 10K J 1/10W		R305			RK73GB2A103J	CHIP R 10K J 1/10W	
R222			RK73GH2A302D	CHIP R 3.0K D 1/10W		R306,307			RK73GB2A101J	CHIP R 100 J 1/10W	
R223			RK73GB2A000J	CHIP R 0.0 J 1/10W		R308			RK73GB2A103J	CHIP R 10K J 1/10W	KK1
R224			RK73GB2A103J	CHIP R 10K J 1/10W		R308-310			RK73GB2A103J	CHIP R 10K J 1/10W	M1M2
R225			RK73GB2A220J	CHIP R 22 J 1/10W		R308,309			RK73GB2A103J	CHIP R 10K J 1/10W	E1E2
R226,227			RK73GB2A103J	CHIP R 10K J 1/10W		R310			RK73GB2A103J	CHIP R 10K J 1/10W	KK1

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)

M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R310			RK73GB2A332J	CHIP R 3.3K J 1/10W	E1E2	R445			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R311			RK73GB2A473J	CHIP R 47K J 1/10W		R446			RK73GH2A203D	CHIP R 20K D 1/10W	
R312,313			RK73GB2A472J	CHIP R 4.7K J 1/10W		R447			RK73GH2A103D	CHIP R 10K D 1/10W	
R314-318			RK73GB2A101J	CHIP R 100 J 1/10W		R448			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R319			RK73GB2A472J	CHIP R 4.7K J 1/10W		R449			RK73GH2A203D	CHIP R 20K D 1/10W	
R320			RK73GB2A473J	CHIP R 47K J 1/10W		R450			RK73GH2A103D	CHIP R 10K D 1/10W	
R321			RK73GB2A750J	CHIP R 75 J 1/10W		R451,452			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R322			RK73GB2A103J	CHIP R 10K J 1/10W		R454			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R323			RK73GB2A272J	CHIP R 2.7K J 1/10W		R456			RK73GH2A203D	CHIP R 20K D 1/10W	
R324			RK73GB2A473J	CHIP R 47K J 1/10W		R460			RK73GH2A103D	CHIP R 10K D 1/10W	
R325-338			RK73GB2A101J	CHIP R 100 J 1/10W		R466,467			RK73EB2E2R2J	CHIP R 2.2 J 1/4W	K1M2E2
R339,340			RK73GB2A473J	CHIP R 47K J 1/10W		R472-477			RK73EB2E820J	CHIP R 82 J 1/4W	K1M2E2
R341-346			RK73GB2A101J	CHIP R 100 J 1/10W		R478-483			RK73GB2A104J	CHIP R 100K J 1/10W	K1M2E2
R347			RK73GB2A302J	CHIP R 3.0K J 1/10W		R484-495			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2E2
R348-350			RK73GB2A473J	CHIP R 47K J 1/10W		R499			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R356			RK73GB2A000J	CHIP R 0.0 J 1/10W		R500			RK73GB2A104J	CHIP R 100K J 1/10W	
R357			RK73GB2A102J	CHIP R 1.0K J 1/10W		R502			RK73GB2A473J	CHIP R 47K J 1/10W	
R358			RK73GH2A102D	CHIP R 1.0K D 1/10W		R504			RK73GB2A104J	CHIP R 100K J 1/10W	
R359			RK73GB2A102J	CHIP R 1.0K J 1/10W		R505			RK73EB2E103J	CHIP R 10K J 1/4W	
R360			RK73GH2A102D	CHIP R 1.0K D 1/10W		R507			RK73EB2E103J	CHIP R 10K J 1/4W	
R361,362			RK73GB2A000J	CHIP R 0.0 J 1/10W		R508			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R363			RK73GB2A102J	CHIP R 1.0K J 1/10W		R509			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R364			RK73GH2A102D	CHIP R 1.0K D 1/10W		R510			RK73GB2A104J	CHIP R 100K J 1/10W	
R365-368			RK73GB2A000J	CHIP R 0.0 J 1/10W		R511,512			RK73GB2A103J	CHIP R 10K J 1/10W	
R374			RK73GB2A000J	CHIP R 0.0 J 1/10W		R513			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R378-380			RK73GB2A000J	CHIP R 0.0 J 1/10W		R520			RK73EB2E103J	CHIP R 10K J 1/4W	
R381			RK73GB2A102J	CHIP R 1.0K J 1/10W		R521			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R382			RK73GB2A000J	CHIP R 0.0 J 1/10W		R522			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R383-385			RK73GB2A101J	CHIP R 100 J 1/10W		R523			RK73PB2H102J	CHIP R 1.0K J 1/2W	
R386			RK73GB2A473J	CHIP R 47K J 1/10W		R524			RK73GB2A223J	CHIP R 22K J 1/10W	
R387			RK73GB2A223J	CHIP R 22K J 1/10W		R525			RK73PB2H102J	CHIP R 1.0K J 1/2W	
R388			RK73GB2A473J	CHIP R 47K J 1/10W	KM1E1	R526			RK73GB2A000J	CHIP R 0.0 J 1/10W	E1E2
R389			RK73GB2A473J	CHIP R 47K J 1/10W	K1M2E2	R527			RK73GB2A103J	CHIP R 10K J 1/10W	KM1K1
R390			RK73GB2A000J	CHIP R 0.0 J 1/10W		R527			RK73GB2A103J	CHIP R 10K J 1/10W	M2
R391			RK73GB2A101J	CHIP R 100 J 1/10W		R528			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R392			RK73GB2A000J	CHIP R 0.0 J 1/10W		R529			RK73GB2A222J	CHIP R 2.2K J 1/10W	KM1K1
R394-396			RK73GB2A101J	CHIP R 100 J 1/10W		R529			RK73GB2A222J	CHIP R 2.2K J 1/10W	M2
R397			RK73GB2A103J	CHIP R 10K J 1/10W		R530,531			RK73PB2H102J	CHIP R 1.0K J 1/2W	KM1K1
R399			RK73GB2A103J	CHIP R 10K J 1/10W		R530,531			RK73PB2H102J	CHIP R 1.0K J 1/2W	M2
R400			RK73GB2A472J	CHIP R 4.7K J 1/10W		R532			RK73GB2A103J	CHIP R 10K J 1/10W	KM1K1
R401,402			RK73GB2A101J	CHIP R 100 J 1/10W		R532			RK73GB2A103J	CHIP R 10K J 1/10W	M2
R403			RK73GB2A472J	CHIP R 4.7K J 1/10W		R533			RK73GB2A473J	CHIP R 47K J 1/10W	
R404,405			RK73GB2A473J	CHIP R 47K J 1/10W		R534			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R406			RK73GB2A102J	CHIP R 1.0K J 1/10W		R535			RK73FB2B561J	CHIP R 560 J 1/8W	
R407			RK73GB2A222J	CHIP R 2.2K J 1/10W		R536			RK73GB2A104J	CHIP R 100K J 1/10W	
R408-410			RK73EB2E100J	CHIP R 10 J 1/4W		R537			RK73GB2A473J	CHIP R 47K J 1/10W	
R411,412			RK73EB2E750J	CHIP R 75 J 1/4W		R545			RK73GH2A273D	CHIP R 27K D 1/10W	
R413,414			RK73GB2A103J	CHIP R 10K J 1/10W		R546			RK73GH2A472D	CHIP R 4.7K D 1/10W	
R415			RK73GB2A104J	CHIP R 100K J 1/10W		R550			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R416			RK73EB2E100J	CHIP R 10 J 1/4W		R551,552			RK73GB2A473J	CHIP R 47K J 1/10W	
R417,418			RK73GB2A472J	CHIP R 4.7K J 1/10W		R553			RK73EB2E152J	CHIP R 1.5K J 1/4W	
R420			RK73GB2A333J	CHIP R 33K J 1/10W		R554			RK73GB2A621J	CHIP R 620 J 1/10W	
R421			RK73GB2A223J	CHIP R 22K J 1/10W		R555			RK73GB2A242J	CHIP R 2.4K J 1/10W	
R422,423			RK73EB2E101J	CHIP R 100 J 1/4W		R556,557			RK73PB2H2R0J	CHIP R 2.0 J 1/2W	
R424	*		RK73EB2E154J	CHIP R 150K J 1/4W		R558			RK73GB2A124J	CHIP R 120K J 1/10W	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R559			RK73GB2A103J	CHIP R 10K J 1/10W		R635			RK73EB2E101J	CHIP R 100 J 1/4W	KM1E1
R560			RK73GB2A473J	CHIP R 47K J 1/10W		R636			RK73GB2A471J	CHIP R 470 J 1/10W	
R561			RK73GB2A472J	CHIP R 4.7K J 1/10W		R637			RK73GB2A223J	CHIP R 22K J 1/10W	
R562,563			RK73GB2A473J	CHIP R 47K J 1/10W		R638,639			RK73GB2A103J	CHIP R 10K J 1/10W	
R564			RK73EB2E152J	CHIP R 1.5K J 1/4W		R640			RK73GB2A223J	CHIP R 22K J 1/10W	
R565			RK73GB2A621J	CHIP R 620 J 1/10W		R641			RK73GB2A473J	CHIP R 47K J 1/10W	
R566			RK73GB2A242J	CHIP R 2.4K J 1/10W		R642			RK73EB2E101J	CHIP R 100 J 1/4W	KM1E1
R567,568			RK73PB2H2R0J	CHIP R 2.0 J 1/2W		R643			RK73GB2A471J	CHIP R 470 J 1/10W	
R569			RK73GB2A124J	CHIP R 120K J 1/10W		R644			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R570			RK73GB2A103J	CHIP R 10K J 1/10W		R645			RK73EB2E101J	CHIP R 100 J 1/4W	KM1E1
R571			RK73GB2A473J	CHIP R 47K J 1/10W		R646			RK73GB2A471J	CHIP R 470 J 1/10W	
R574-577			RK73GB2A101J	CHIP R 100 J 1/10W		R648			RK73GB2A223J	CHIP R 22K J 1/10W	
R578			RK73GB2A472J	CHIP R 4.7K J 1/10W	K1M2E2	R649			RK73GB2A103J	CHIP R 10K J 1/10W	
R579,580			RK73GB2A473J	CHIP R 47K J 1/10W	K1M2E2	R651			RK73GB2A103J	CHIP R 10K J 1/10W	
R581			RK73EB2E152J	CHIP R 1.5K J 1/4W	K1M2E2	R652			RK73GB2A223J	CHIP R 22K J 1/10W	
R582			RK73GB2A621J	CHIP R 620 J 1/10W	K1M2E2	R654			RK73EB2E101J	CHIP R 100 J 1/4W	KM1E1
R583			RK73GB2A242J	CHIP R 2.4K J 1/10W	K1M2E2	R655			RK73GB2A471J	CHIP R 470 J 1/10W	
R584,585			RK73PB2H2R0J	CHIP R 2.0 J 1/2W	K1M2E2	R656			RK73EB2E101J	CHIP R 100 J 1/4W	KM1E1
R586			RK73GB2A124J	CHIP R 120K J 1/10W	K1M2E2	R657			RK73GB2A471J	CHIP R 470 J 1/10W	
R587			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2E2	R658			RK73GB2A223J	CHIP R 22K J 1/10W	
R588			RK73GB2A473J	CHIP R 47K J 1/10W	K1M2E2	R659,660			RK73GB2A103J	CHIP R 10K J 1/10W	
R589			RK73GB2A472J	CHIP R 4.7K J 1/10W	K1M2E2	R661			RK73GB2A223J	CHIP R 22K J 1/10W	
R590,591			RK73GB2A473J	CHIP R 47K J 1/10W	K1M2E2	R662			RK73EB2E101J	CHIP R 100 J 1/4W	KM1E1
R592			RK73EB2E152J	CHIP R 1.5K J 1/4W	K1M2E2	R663			RK73GB2A471J	CHIP R 470 J 1/10W	
R593			RK73GB2A621J	CHIP R 620 J 1/10W	K1M2E2	R664			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R594			RK73GB2A242J	CHIP R 2.4K J 1/10W	K1M2E2	R665			RK73GB2A223J	CHIP R 22K J 1/10W	
R595,596			RK73PB2H2R0J	CHIP R 2.0 J 1/2W	K1M2E2	R666			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R597			RK73GB2A124J	CHIP R 120K J 1/10W	K1M2E2	R667-669			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R598			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2E2	R671-674			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R599			RK73GB2A473J	CHIP R 47K J 1/10W	K1M2E2	R689			RK73EB2E101J	CHIP R 100 J 1/4W	K1M2E2
R600			RK73GB2A102J	CHIP R 1.0K J 1/10W		R690			RK73GB2A471J	CHIP R 470 J 1/10W	K1M2E2
R601			RK73GB2A104J	CHIP R 100K J 1/10W		R691			RK73GB2A223J	CHIP R 22K J 1/10W	K1M2E2
R602			RK73GB2A103J	CHIP R 10K J 1/10W		R692			RK73GB2A103J	CHIP R 10K J 1/10W	
R603,604			RK73GB2A101J	CHIP R 100 J 1/10W		R693			RK73GB2A223J	CHIP R 22K J 1/10W	K1M2E2
R605			RK73GB2A103J	CHIP R 10K J 1/10W		R694			RK73GB2A103J	CHIP R 10K J 1/10W	
R606,607			RK73GB2A101J	CHIP R 100 J 1/10W		R695			RK73EB2E101J	CHIP R 100 J 1/4W	K1M2E2
R608,609			RK73GB2A102J	CHIP R 1.0K J 1/10W		R696			RK73GB2A471J	CHIP R 470 J 1/10W	K1M2E2
R610			RK73EB2E2R2J	CHIP R 2.2 J 1/4W		R697			RK73EB2E750J	CHIP R 75 J 1/4W	K1M2E2
R611			RK73GB2A000J	CHIP R 0.0 J 1/10W	K1M2E2	R698			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R612			RK73FB2B000J	CHIP R 0.0 J 1/8W	K1M2E2	R700-702			RK73GB2A000J	CHIP R 0.0 J 1/10W	KM1K1
R613			RK73GB2A000J	CHIP R 0.0 J 1/10W	E1K1M2E2	R700-702			RK73GB2A000J	CHIP R 0.0 J 1/10W	M2
R613			RK73GB2A000J	CHIP R 0.0 J 1/10W		R703			RK73GB2A561J	CHIP R 560 J 1/10W	
R614			RK73GB2A473J	CHIP R 47K J 1/10W		R704			RK73GB2A334J	CHIP R 330K J 1/10W	
R615			RK73GB2A000J	CHIP R 0.0 J 1/10W	KM1E1	R705			RK73GB2A103J	CHIP R 10K J 1/10W	
R616			RK73GB2A331J	CHIP R 330 J 1/10W		R706,707			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R617			RK73GB2A473J	CHIP R 47K J 1/10W		R708			RK73EB2E100J	CHIP R 10 J 1/4W	
R618			RK73GB2A183J	CHIP R 18K J 1/10W		R709			RK73GB2A223J	CHIP R 22K J 1/10W	
R619			RK73GB2A911J	CHIP R 910 J 1/10W		R710			RK73EB2E100J	CHIP R 10 J 1/4W	
R620			RK73GB2A100J	CHIP R 10 J 1/10W	KM1E1	R711			RK73GB2A223J	CHIP R 22K J 1/10W	
R621			RK73GB2A473J	CHIP R 47K J 1/10W		R712,713			RK73EB2E100J	CHIP R 10 J 1/4W	
R622,623			RK73GB2A103J	CHIP R 10K J 1/10W		R714			RK73GB2A223J	CHIP R 22K J 1/10W	
R624			RK73GB2A473J	CHIP R 47K J 1/10W		R715			RK73EB2E100J	CHIP R 10 J 1/4W	
R625,626			RK73GB2A103J	CHIP R 10K J 1/10W		R716			RK73GB2A223J	CHIP R 22K J 1/10W	
R627			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		R717			RK73EB2E100J	CHIP R 10 J 1/4W	
R628-634			RK73GB2A103J	CHIP R 10K J 1/10W		R718-721			RK73GB2A103J	CHIP R 10K J 1/10W	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)

M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R722			RK73EB2E101J	CHIP R 100 J 1/4W		R805,806			RK73GB2A104J	CHIP R 100K J 1/10W	
R723			RK73GB2A100J	CHIP R 10 J 1/10W		R807			RK73GB2A101J	CHIP R 100 J 1/10W	
R724-727			RK73GB2A183J	CHIP R 18K J 1/10W		R811			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R728			RK73EB2E101J	CHIP R 100 J 1/4W		R812			RK73EB2E100J	CHIP R 10 J 1/4W	
R729			RK73GB2A100J	CHIP R 10 J 1/10W		R813			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R730,731			RK73GB2A750J	CHIP R 75 J 1/10W		R814			RK73EB2E100J	CHIP R 10 J 1/4W	
R732			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		R815			RK73EB2E101J	CHIP R 100 J 1/4W	
R733,734			RK73GB2A222J	CHIP R 2.2K J 1/10W		R816,817			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R735			RK73GB2A621J	CHIP R 620 J 1/10W		R818,819			RK73EB2E101J	CHIP R 100 J 1/4W	
R736			RK73EB2E101J	CHIP R 100 J 1/4W		R820-822			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R737			RK73GB2A471J	CHIP R 470 J 1/10W		R823-826			RK73GB2A100J	CHIP R 10 J 1/10W	
R738			RK73GB2A223J	CHIP R 22K J 1/10W		R827			RK73GB2A750J	CHIP R 75 J 1/10W	
R739			RK73GB2A103J	CHIP R 10K J 1/10W		R828			RK73EB2E101J	CHIP R 100 J 1/4W	
R742			RK73GB2A103J	CHIP R 10K J 1/10W		R829			RK73GB2A750J	CHIP R 75 J 1/10W	
R743			RK73EB2E101J	CHIP R 100 J 1/4W		R830			RK73EB2E101J	CHIP R 100 J 1/4W	
R744			RK73GB2A471J	CHIP R 470 J 1/10W		R831			RK73GB2A750J	CHIP R 75 J 1/10W	
R745			RK73EB2E750J	CHIP R 75 J 1/4W		R832			RK73EB2E101J	CHIP R 100 J 1/4W	
R746			RK73GB2A000J	CHIP R 0.0 J 1/10W		R833			RK73GB2A750J	CHIP R 75 J 1/10W	
R748			RK73EB2E101J	CHIP R 100 J 1/4W		R834			RK73EB2E101J	CHIP R 100 J 1/4W	
R749			RK73GB2A100J	CHIP R 10 J 1/10W		R835,836			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R750			RK73GB2A750J	CHIP R 75 J 1/10W		R837-839			RK73EB2E101J	CHIP R 100 J 1/4W	
R754			RK73FB2B470J	CHIP R 47 J 1/8W	K1M2E2	R840-842			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R755			RK73GB2A272J	CHIP R 2.7K J 1/10W		R843			RK73EB2E100J	CHIP R 10 J 1/4W	
R756			RK73GB2A362J	CHIP R 3.6K J 1/10W		R844			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R757,758			RK73GB2A472J	CHIP R 4.7K J 1/10W		R845			RK73EB2E100J	CHIP R 10 J 1/4W	
R759			RK73GB2A103J	CHIP R 10K J 1/10W		R846			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R760			RK73GB2A242J	CHIP R 2.4K J 1/10W	K1M2E2	R847			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R761			RK73GB2A101J	CHIP R 100 J 1/10W		R848			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R762			RK73GB2A103J	CHIP R 10K J 1/10W		R849			RK73EB2E100J	CHIP R 10 J 1/4W	
R763			RK73GH2A102D	CHIP R 1.0K D 1/10W	K1M2E2	R850			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R764			RK73GB2A102J	CHIP R 1.0K J 1/10W	K1M2E2	R851			RK73EB2E100J	CHIP R 10 J 1/4W	
R765			RK73GB2A223J	CHIP R 22K J 1/10W		R852			RK73GB2A100J	CHIP R 10 J 1/10W	
R766			RK73GB2A473J	CHIP R 47K J 1/10W	K1M2E2	R853			RK73EB2E101J	CHIP R 100 J 1/4W	
R767,768			RK73GB2A103J	CHIP R 10K J 1/10W		R854			RK73GB2A100J	CHIP R 10 J 1/10W	
R769			RK73GB2A100J	CHIP R 10 J 1/10W	K1M2E2	R855			RK73EB2E101J	CHIP R 100 J 1/4W	
R770			RK73GB2A123J	CHIP R 12K J 1/10W	K1M2E2	R856			RK73GB2A100J	CHIP R 10 J 1/10W	
R771-773			RK73GB2A750J	CHIP R 75 J 1/10W	E1E2	R857			RK73EB2E101J	CHIP R 100 J 1/4W	
R774,775			RK73EB2E100J	CHIP R 10 J 1/4W		R858			RK73GB2A100J	CHIP R 10 J 1/10W	
R776,777			RK73GB2A102J	CHIP R 1.0K J 1/10W		R859			RK73EB2E101J	CHIP R 100 J 1/4W	
R778			RK73GB2A391J	CHIP R 390 J 1/10W	K1M2E2	R860,861			RK73GB2A390J	CHIP R 39 J 1/10W	
R779			RK73GH2A152D	CHIP R 1.5K D 1/10W	K1M2E2	R862			RK73GB2A750J	CHIP R 75 J 1/10W	
R780-783			RK73GB2A000J	CHIP R 0.0 J 1/10W		R863			RK73GB2A470J	CHIP R 47 J 1/10W	
R784			RK73GH2A222D	CHIP R 2.2K D 1/10W	K1M2E2	R864-866			RK73GB2A750J	CHIP R 75 J 1/10W	
R785			RK73GH2A822D	CHIP R 8.2K D 1/10W	K1M2E2	R869,870			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R786			RK73GH2A102D	CHIP R 1.0K D 1/10W	K1M2E2	R872			RK73GB2A101J	CHIP R 100 J 1/10W	
R788			RK73GB2A102J	CHIP R 1.0K J 1/10W	K1M2E2	R873			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R789			RK73GH2A223D	CHIP R 22K D 1/10W	K1M2E2	R876,877			RK73GB2A431J	CHIP R 430 J 1/10W	
R790			RK73GH2A472D	CHIP R 4.7K D 1/10W	K1M2E2	R878			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R791			RK73GH2A101D	CHIP R 100 D 1/10W	K1M2E2	R879			RK73GB2A102J	CHIP R 1.0K J 1/10W	KM1E1
R792			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	K1M2E2	R880			RK73GB2A682J	CHIP R 6.8K J 1/10W	KM1E1
R798			RK73GB2A151J	CHIP R 150 J 1/10W	K1M2E2	R881			RK73GH2A103D	CHIP R 10K D 1/10W	
R799			RK73GH2A101D	CHIP R 100 D 1/10W	K1M2E2	R882			RK73GB2A103J	CHIP R 10K J 1/10W	KM1E1
R800,801			RK73GB2A101J	CHIP R 100 J 1/10W		R882			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2
R802			RK73GB2A104J	CHIP R 100K J 1/10W		R883			RK73GH2A103D	CHIP R 10K D 1/10W	
R803			RK73EB2E102J	CHIP R 1.0K J 1/4W		R884,885			RK73GB2A103J	CHIP R 10K J 1/10W	KM1E1

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R884,885			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2	R989			RK73GB2A104J	CHIP R 100K J 1/10W	
R886,887			RK73GH2A103D	CHIP R 10K D 1/10W		R990			RK73GB2A473J	CHIP R 47K J 1/10W	
R888-891			RK73GH2A473D	CHIP R 47K D 1/10W		R991,992			RK73GB2A101J	CHIP R 100 J 1/10W	
R892			RK73GB2A000J	CHIP R 0.0 J 1/10W		R993			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R893-896		*	RK73EB2E563J	CHIP R 56K J 1/4W		R995			RK73GB2A103J	CHIP R 10K J 1/10W	
R897,898			RK73EB2E222J	CHIP R 2.2K J 1/4W		R998			RK73GB2A100J	CHIP R 10 J 1/10W	
R899			RK73GB2A000J	CHIP R 0.0 J 1/10W		VR201			R32-0327-05	SEMI FIXED VARIABLE RESISTOR	
R900,901			RK73GB2A473J	CHIP R 47K J 1/10W		VR800			R31-0232-15	VARIABLE RESISTOR	
R902			RK73GB2A101J	CHIP R 100 J 1/10W		S1			S68-0806-05	PUSH SWITCH	
R903			RK73GB2A102J	CHIP R 1.0K J 1/10W		D1			UDZS6.8B	ZENER DIODE	
R904,905			RK73GB2A222J	CHIP R 2.2K J 1/10W		D2			UDZS10B	ZENER DIODE	
R906			RK73GB2A103J	CHIP R 10K J 1/10W		D3			DAN202U	DIODE	
R907,908			RK73GB2A104J	CHIP R 100K J 1/10W		D4			UDZS6.2B	ZENER DIODE	
R909			RK73GB2A473J	CHIP R 47K J 1/10W		D6			UDZS11B	ZENER DIODE	
R910			RK73GB2A103J	CHIP R 10K J 1/10W	KM1E1	D8			EP05Q06	DIODE	
R910			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2	D9-11			EP05Q04	DIODE	
R911,912			RK73GB2A473J	CHIP R 47K J 1/10W		D12			1SR154-400	DIODE	
R913			RK73GB2A103J	CHIP R 10K J 1/10W		D13			ST70-27F-5072	ZENER DIODE	
R914			RK73GB2A473J	CHIP R 47K J 1/10W		D14			RB160L-40	DIODE	
R915			RK73GB2A103J	CHIP R 10K J 1/10W	KM1K1	D100,101			1SS357-F	DIODE	
R915			RK73GB2A332J	CHIP R 3.3K J 1/10W	M2	D200-203			STZ6.2N	ZENER DIODE	
R916-926			RK73GB2A101J	CHIP R 100 J 1/10W	E1E2	D204,205			AVRM1608120M6A	VARISTOR	
R927			RK73GB2A103J	CHIP R 10K J 1/10W		D206-209			STZ6.2N	ZENER DIODE	
R928			RK73GB2A104J	CHIP R 100K J 1/10W		D210,211			UDZS4.7B	ZENER DIODE	
R929			RK73GB2A472J	CHIP R 4.7K J 1/10W		D212			STZ6.2N	ZENER DIODE	
R930,931			RK73GB2A473J	CHIP R 47K J 1/10W		D213,214			AVRM1608120M6A	VARISTOR	
R932			RK73GB2A103J	CHIP R 10K J 1/10W	E1M1K1	D301			DAN202U	DIODE	
R932			RK73GB2A103J	CHIP R 10K J 1/10W	M2E2	D302			DAP202U	DIODE	
R933			RK73GB2A104J	CHIP R 100K J 1/10W		D400			UDZS4.7B	ZENER DIODE	
R934			RK73GB2A472J	CHIP R 4.7K J 1/10W		D401			DAP202U	DIODE	
R935			RK73GB2A223J	CHIP R 22K J 1/10W		D402			STZ6.8N	ZENER DIODE	
R936-940			RK73GB2A473J	CHIP R 47K J 1/10W		D404,405			STZ6.2N	ZENER DIODE	
R941-943			RK73GB2A101J	CHIP R 100 J 1/10W		D502			1SR154-400	DIODE	K1M2E2
R944,945			RK73GB2A103J	CHIP R 10K J 1/10W		D503			DAN202U	DIODE	
R946-948			RK73GB2A101J	CHIP R 100 J 1/10W		D507			1SR154-400	DIODE	K1M2E2
R949			RK73GB2A102J	CHIP R 1.0K J 1/10W		D508			DAN202U	DIODE	
R950-953			RK73GB2A101J	CHIP R 100 J 1/10W		D510			DAN202U	DIODE	
R954,955			RK73GB2A473J	CHIP R 47K J 1/10W		D511			UDZS6.2B	ZENER DIODE	
R956			RK73GB2A101J	CHIP R 100 J 1/10W		D512			UDZS6.8B	ZENER DIODE	
R957			RK73GB2A102J	CHIP R 1.0K J 1/10W		D515			ST70-27F-5072	ZENER DIODE	
R958			RK73EB2E101J	CHIP R 100 J 1/4W		D516			DAP202U	DIODE	
R959			RK73GB2A473J	CHIP R 47K J 1/10W	KM1E1	D517-520			1SR154-400	DIODE	
R960-964			RK73GB2A102J	CHIP R 1.0K J 1/10W		D521			UDZS5.6B	ZENER DIODE	
R965			RK73GB2A223J	CHIP R 22K J 1/10W		D522			UDZS4.7B	ZENER DIODE	
R966-969			RK73GB2A473J	CHIP R 47K J 1/10W		D523			RB160L-40	DIODE	
R970			RK73GB2A000J	CHIP R 0.0 J 1/10W		D525-528			1SR154-400	DIODE	
R972			RK73GB2A102J	CHIP R 1.0K J 1/10W		D600-604			DAP202U	DIODE	K1M2E2
R973			RK73GB2A103J	CHIP R 10K J 1/10W		D600-606			DAP202U	DIODE	KM1E1
R974,975			RK73GB2A102J	CHIP R 1.0K J 1/10W		D606			DAP202U	DIODE	K1M2E2
R976,977			RK73GB2A101J	CHIP R 100 J 1/10W		D607,608			AVRM1608180M6A	VARISTOR	
R979-982			RK73GB2A101J	CHIP R 100 J 1/10W		D609			DAP202U	DIODE	
R983			RK73GB2A473J	CHIP R 47K J 1/10W		D610,611			AVRM1608180M6A	VARISTOR	
R985			RK73GB2A473J	CHIP R 47K J 1/10W		D612-615			DAP202U	DIODE	
R986			RK73GB2A153J	CHIP R 15K J 1/10W		D616,617			AVRM1608180M6A	VARISTOR	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)

M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
D618			MSA-6801-E	SURGE ABSORBER		IC213,214			MM1234XFBE-E	ANALOGUE IC	
D700			UDZS8.2B	ZENER DIODE		IC215			MM1503-E	ANALOGUE IC	
D701,702			UDZS6.2B	ZENER DIODE		IC216			TC7S86FU-F	MOS-IC	
D703,704			UDZS8.2B	ZENER DIODE		IC217			TC7S02FU-F	MOS-IC	
D705			UDZS6.2B	ZENER DIODE		IC218			MM1108XFFE-E	ANALOGUE IC	
D706,707			STZ6.2N	ZENER DIODE		IC219			TC7WH123FU-F	MOS-IC	
D708			DAP202U	DIODE		IC220			TC7S02FU-F	MOS-IC	
D709			UDZS4.7B	ZENER DIODE		IC300			S1000N30N4T1G	ANALOGUE IC	
D710,711			AVRM1608180M6A	VARISTOR		IC301			BR24L08FV-W	ROM IC	
D712,713			DAP202U	DIODE		IC302	*		M24C02-WDW029	ROM IC	
D714			STZ6.2N	ZENER DIODE		IC303			703261YGC315A	MICROCONTROLLER IC	
D715			AVRM1608270MAA	VARISTOR		IC304			TC7SET32FU-F	MOS-IC	
D716			STZ6.2N	ZENER DIODE		IC305			TC7WH34FU-F	MOS-IC	
D717			UDZS6.2B	ZENER DIODE		IC400			TC4052BFT	MOS-IC	
D718			UDZS8.2B	ZENER DIODE		IC401			NJM2794RB2ZB	ANALOGUE IC	
D719			UDZS5.6B	ZENER DIODE	K1M2E2	IC402			NJM2505AF-ZB	ANALOGUE IC	
D800			UDZS6.2B	ZENER DIODE		IC451			TC7WH34FU-F	MOS-IC	
D802			UDZS6.2B	ZENER DIODE		IC600			E-TDA7415CB	ANALOGUE IC	
D803			STZ6.8N	ZENER DIODE		IC601			E-TDA7850A	ANALOGUE IC	KM1E1
D804-816			STZ6.2N	ZENER DIODE		IC601			TB2923HQ	ANALOGUE IC	K1M2E2
D817			STZ6.8N	ZENER DIODE		IC602			TC4052BFT	MOS-IC	
D818			STZ6.2N	ZENER DIODE		IC603			BU2090FS	MOS-IC	
D819			DAP202U	DIODE		IC604,605			TC4052BFT	MOS-IC	
D820			UDZS4.7B	ZENER DIODE		IC606			E-TDA7478AD	ANALOGUE IC	
D821-823			STZ6.2N	ZENER DIODE		IC700			MM1234XFBE-E	ANALOGUE IC	E1E2
D824			STZ6.8N	ZENER DIODE		IC701			BA7653AFV	ANALOGUE IC	
D825-828			STZ6.2N	ZENER DIODE		IC702			MM1108XFFE-E	ANALOGUE IC	
D829			UDZS6.8B	ZENER DIODE		IC703,704			BA7649F	ANALOGUE IC	
D830			DAN202U	DIODE	KM1E1	IC705			MM1508XNRE-E	ANALOGUE IC	
D831			DAP202U	DIODE		IC706,707			NJM2794RB2ZB	ANALOGUE IC	
D832			DAN202U	DIODE		IC800			TC7SET08FU-F	MOS-IC	
D833			DAP202U	DIODE		IC801			NJM2794RB2ZB	ANALOGUE IC	
D834,835			1SR154-400	DIODE		IC802			TC7S08FU-F	MOS-IC	
D951-954			1SR154-400	DIODE	K1M2E2	IC803			NJM4580V-ZB	ANALOGUE IC	
D955,956			AVRM1608180M6A	VARISTOR	K1M2E2	IC804			NJM4565V-ZB	ANALOGUE IC	KM1E1
D957			DAP202U	DIODE	K1M2E2	IC805			NJM4580V-ZB	ANALOGUE IC	
D958			STZ6.2N	ZENER DIODE	K1M2E2	IC806			TC7SET08FU-F	MOS-IC	
D959			AVRM1608270MAA	VARISTOR	K1M2E2	IC807			TC7SET32FU-F	MOS-IC	
D963-965			1SS355	DIODE	K1M2E2	IC900			BR24L02FV-W	ROM IC	KK1
IC1	*		BD3941HFP	ANALOGUE IC	K1M2E2	IC901			TC74VHCT08AFT	MOS-IC	
IC2			XC6201P332PR	ANALOGUE IC		IC902			703030BYGCJ30	MICROCONTROLLER IC	
IC3			LT1947-PBF	ANALOGUE IC		IC903			S-80842CNNB-G	MOS-IC	
IC4			BA05CCOWFP	ANALOGUE IC		IC951			MM1508XNRE-E	ANALOGUE IC	K1M2E2
IC5,6			M5237ML-CF0J	ANALOGUE IC		IC952-954			NJM4580V-ZB	ANALOGUE IC	K1M2E2
IC100			LTC3728LEGN	ANALOGUE IC		IC955			NJM4565V-ZB	ANALOGUE IC	K1M2E2
IC200,201			TC7SET32FU-F	MOS-IC		IC956			NJM2125F-ZB	ANALOGUE IC	K1M2E2
IC202,203			TC7W53FU-F	MOS-IC		IC957			TC7WH241FK-F	MOS-IC	
IC204			NJW1303V-ZB	ANALOGUE IC		Q1-3			2SC4081	TRANSISTOR	
IC205			TC7WH34FU-F	MOS-IC		Q4			DTC114YUA	DIGITAL TRANSISTOR	
IC206			BA7666FS	ANALOGUE IC		Q5,6			2SA1576A	TRANSISTOR	
IC208			MM1508XNRE-E	ANALOGUE IC		Q7			TPC8110-F	FET	
IC209			TC7WH123FU-F	MOS-IC		Q9			2SB1450-E	TRANSISTOR	
IC210			TC7SH04FU-F	MOS-IC		Q10			2SC4081	TRANSISTOR	
IC211			RB5P0090M	ANALOGUE IC		Q11			2SB1565 (E,F)	TRANSISTOR	
IC212			BA7649F	ANALOGUE IC		Q12			2SC4081	TRANSISTOR	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

VIDEO CONTROL UNIT(X14-982x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
Q21			DTA114YUA	DIGITAL TRANSISTOR	
Q22			DTC124EUA	DIGITAL TRANSISTOR	
Q101			DTC114YUA	DIGITAL TRANSISTOR	
Q102,103			HAT2218R-E	DUAL FET	
Q104			DTC114YUA	DIGITAL TRANSISTOR	
Q200			DTC114YUA	DIGITAL TRANSISTOR	
Q201			DTA114EUA	DIGITAL TRANSISTOR	
Q203			DTC124EUA	DIGITAL TRANSISTOR	
Q205			2SC4081	TRANSISTOR	
Q208,209			2SA1576A	TRANSISTOR	
Q210			2SC4081	TRANSISTOR	
Q211			2SA1576A	TRANSISTOR	
Q300			DTA114YUA	DIGITAL TRANSISTOR	
Q301			DTC114YUA	DIGITAL TRANSISTOR	
Q400,401			DTC114YUA	DIGITAL TRANSISTOR	
Q500			DTC143EUA	DIGITAL TRANSISTOR	
Q501			DTA114YUA	DIGITAL TRANSISTOR	
Q502			DTC124EUA	DIGITAL TRANSISTOR	
Q503			2SC4081	TRANSISTOR	
Q506			2SB1188 (Q,R)	TRANSISTOR	
Q507			2SA1576A	TRANSISTOR	
Q508			DTA114EUA	DIGITAL TRANSISTOR	
Q509			DTC114YUA	DIGITAL TRANSISTOR	
Q510			2SB1188 (R)	TRANSISTOR	KM1K1
Q510			2SB1188 (R)	TRANSISTOR	M2
Q511			2SC4081	TRANSISTOR	
Q511			2SC4081	TRANSISTOR	KM1K1
Q512			2SA1576A	TRANSISTOR	M2
Q518			2SB1565 (E,F)	TRANSISTOR	
Q522			DTC114TUA	DIGITAL TRANSISTOR	
Q523			2SC4081	TRANSISTOR	
Q524			2SB1184	TRANSISTOR	
Q525			2SA1576A	TRANSISTOR	
Q526,527			2SC4081	TRANSISTOR	
Q528			DTC114TUA	DIGITAL TRANSISTOR	
Q529			2SC4081	TRANSISTOR	
Q530			2SB1184	TRANSISTOR	
Q531			2SA1576A	TRANSISTOR	
Q532,533			2SC4081	TRANSISTOR	
Q600,601			DTC124EUA	DIGITAL TRANSISTOR	
Q602			DTC323TU	DIGITAL TRANSISTOR	
Q603			2SA1576A	TRANSISTOR	
Q604-607			DTC323TU	DIGITAL TRANSISTOR	
Q608			DTA144EUA	DIGITAL TRANSISTOR	
Q609			DTC323TU	DIGITAL TRANSISTOR	
Q610			DTC124EUA	DIGITAL TRANSISTOR	
Q611			2SB1689	TRANSISTOR	
Q700			DTC323TU	DIGITAL TRANSISTOR	
Q701			DTA144EUA	DIGITAL TRANSISTOR	
Q702			DTC323TU	DIGITAL TRANSISTOR	
Q703			2SA1576A	TRANSISTOR	K1M2E2
Q704,705			2SC4081	TRANSISTOR	K1M2E2
Q900			DTA114TUA	DIGITAL TRANSISTOR	
Q901,902			DTC114YUA	DIGITAL TRANSISTOR	
Q903			DTC114TUA	DIGITAL TRANSISTOR	

Ref. No.	Add	New	Parts No.	Description	Destination
Q904			DTA114EUA	DIGITAL TRANSISTOR	
Q905,906			DTC114TUA	DIGITAL TRANSISTOR	
Q907,908			2SC4081	TRANSISTOR	
Q951			DTC114TUA	DIGITAL TRANSISTOR	K1M2E2
Q952			2SC4081	TRANSISTOR	K1M2E2
Q953			2SB1184	TRANSISTOR	K1M2E2
Q954			2SA1576A	TRANSISTOR	K1M2E2
Q955,956			2SC4081	TRANSISTOR	K1M2E2
Q957			DTC114TUA	DIGITAL TRANSISTOR	K1M2E2
Q958			2SC4081	TRANSISTOR	K1M2E2
Q959			2SB1184	TRANSISTOR	K1M2E2
Q960			2SA1576A	TRANSISTOR	K1M2E2
Q961,962			2SC4081	TRANSISTOR	K1M2E2
Q963,964			DTC323TU	DIGITAL TRANSISTOR	K1M2E2
TH600			PRF18BE471QB2	POSITIVE RESISTOR	
A600			X86-4080-12	FRONT-END UNIT	KK1
A600			X86-4082-71	FRONT-END UNIT	E1M1E2
A600			X86-4082-71	FRONT-END UNIT	M2
DIGITAL I/O UNIT (X88-2020-10: KOS-V500, 0-13: KOS-V1000)					
C100			CC73HCH1H101J	CHIP C 100PF J	KM1E1
C100,101			CC73HCH1H101J	CHIP C 100PF J	K1M2E2
C102-105			CK73HB1A104K	CHIP C 0.10UF K	
C106			CK73GB0J106M	CHIP C 10UF M	
C107-110			CK73HB1A104K	CHIP C 0.10UF K	
C112			CK73EB0J226K	CHIP C 22UF K	
C113			C92-1983-05	ELECTRO 100UF 4WV	
C114-124			CK73HB1A104K	CHIP C 0.10UF K	
C125			CC73HCH1H220J	CHIP C 22PF J	
C126-130			CK73HB1A104K	CHIP C 0.10UF K	
C133,134			CK73GB0J106M	CHIP C 10UF M	
C135			CK73HB1A104K	CHIP C 0.10UF K	
C138,139			CC73HCH1H100D	CHIP C 10PF D	
C140			CK73HB0J105K	CHIP C 1.0UF K	K1M2E2
C142			CE32BN0J221M	CHIP EL 220UF 6.3WV	
C143			CK73HB0J105K	CHIP C 1.0UF K	
C144			CK73HB1A104K	CHIP C 0.10UF K	
C148			CE32BN0J221M	CHIP EL 220UF 6.3WV	K1M2E2
C149			CK73HB1A104K	CHIP C 0.10UF K	
C153			CK73HB0J105K	CHIP C 1.0UF K	
C154			CK73HB1A104K	CHIP C 0.10UF K	
C200			CC73HCH1H220J	CHIP C 22PF J	
C201			CK73HB1A104K	CHIP C 0.10UF K	
C202			CC73HCH1H220J	CHIP C 22PF J	
C203,204			CK73HB1A104K	CHIP C 0.10UF K	
C217-226			CK73HB1A104K	CHIP C 0.10UF K	
C227,228			CK73GB0J106M	CHIP C 10UF M	
C230,231			CK73HB1H102K	CHIP C 1000PF K	
C233-236			CK73HB1A104K	CHIP C 0.10UF K	
C244			CK73GB0J106M	CHIP C 10UF M	
C247			CK73HB1H102K	CHIP C 1000PF K	
C264			CK73HB1A104K	CHIP C 0.10UF K	
C275			CK73GB0J106M	CHIP C 10UF M	
C300			CC73GCH1H681J	CHIP C 680PF J	
C301			CC73HCH1H101J	CHIP C 100PF J	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

DIGITAL I/O UNIT (X88-2020-10: KOS-V500, 0-13: KOS-V1000)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C302			CK73GB1H683K	CHIP C 0.068UF K		L309			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C303			CK73GB0J106M	CHIP C 10UF M		X100			L77-2941-05	CRYSTAL RESONATOR (14.7456MHZ)	
C304-313			CK73HB1A104K	CHIP C 0.10UF K		X202			L77-2917-15	CRYSTAL RESONATOR (32.768KHZ)	
C314,315			CK73GB0J106M	CHIP C 10UF M		CP104-109			RK74HB1J220J	CHIP-COM 22 J 1/16W	
C316-320			CK73HB1A104K	CHIP C 0.10UF K		CP117-127			RK74HB1J220J	CHIP-COM 22 J 1/16W	
C322-325			CK73HB1A104K	CHIP C 0.10UF K		CP128-134			RK74HB1J103J	CHIP-COM 10K J 1/16W	
C326,327			CK73GB0J106M	CHIP C 10UF M		CP135-138			RK74HB1J220J	CHIP-COM 22 J 1/16W	
C328			CC73HCH1H150J	CHIP C 15PF J		CP139-142			RK74HB1J330J	CHIP-COM 33 J 1/16W	
C329			CC73HCH1H270J	CHIP C 27PF J		CP143-146			RK74HB1J680J	CHIP-COM 68 J 1/16W	
C330			CK73HB1A104K	CHIP C 0.10UF K		CP147-154			RK74HB1J103J	CHIP-COM 10K J 1/16W	
C331			CK73GB0J106M	CHIP C 10UF M		CP155-160			RK74HB1J220J	CHIP-COM 22 J 1/16W	
C332			CK73HB1A104K	CHIP C 0.10UF K		CP200-203			RK74HB1J220J	CHIP-COM 22 J 1/16W	
C336			CK73GB0J106M	CHIP C 10UF M		CP204-207			RK74HB1J103J	CHIP-COM 10K J 1/16W	
C337,338			CK73HB1H152K	CHIP C 1500PF K		R1,2			RK73HB1J473J	CHIP R 47K J 1/16W	
C340,341			CC73HCH1H331J	CHIP C 330PF J		R3-5			RK73HB1J220J	CHIP R 22 J 1/16W	
C342			CK73HB1E103K	CHIP C 0.010UF K		R6			RK73HB1J473J	CHIP R 47K J 1/16W	
C349			CC73HCH1H020C	CHIP C 2.0PF C		R7			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C351			CK73HB1A104K	CHIP C 0.10UF K		R8			RK73HB1J473J	CHIP R 47K J 1/16W	
C352			CK73GB0J106M	CHIP C 10UF M		R9,10			RK73HB1J220J	CHIP R 22 J 1/16W	
C354-357			CK73HB1A104K	CHIP C 0.10UF K		R12			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C358			CC73HCH1H020C	CHIP C 2.0PF C		R13			RK73HB1J473J	CHIP R 47K J 1/16W	
C360,361			CK73HB1A104K	CHIP C 0.10UF K		R14			RK73HB1J561J	CHIP R 560 J 1/16W	
C362			CK73GB0J106M	CHIP C 10UF M		R15,16			RK73FB2B220J	CHIP R 22 J 1/8W	
C363			CK73HB1A104K	CHIP C 0.10UF K		R17,18			RK73HB1J153J	CHIP R 15K J 1/16W	
C367			CK73HB0J105K	CHIP C 1.0UF K		R24			RK73HB1J220J	CHIP R 22 J 1/16W	
C368			CK73HB1A104K	CHIP C 0.10UF K		R29			RK73HB1J473J	CHIP R 47K J 1/16W	
C375,376			CK73HB1A104K	CHIP C 0.10UF K		R30			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C456			CK73EB1A106K	CHIP C 10UF K		R31			RK73HB1J473J	CHIP R 47K J 1/16W	KM1E1
C460			CK73HB1A104K	CHIP C 0.10UF K		R32			RK73HB1J472J	CHIP R 4.7K J 1/16W	K1M2E2
C464			CK73HB1C473K	CHIP C 0.047UF K		R33			RK73HB1J473J	CHIP R 47K J 1/16W	
C468			CK73GB0J106M	CHIP C 10UF M		R34-37			RK73FB2B220J	CHIP R 22 J 1/8W	
C472			CK73HB1A104K	CHIP C 0.10UF K		R104			RK73HB1J330J	CHIP R 33 J 1/16W	
C473			CC73HCH1H331J	CHIP C 330PF J		R105			RK73HB1J103J	CHIP R 10K J 1/16W	
C478			CK73HB1A104K	CHIP C 0.10UF K		R107-109			RK73HB1J103J	CHIP R 10K J 1/16W	
C482			CK73GB1H222K	CHIP C 2200PF K		R112			RK73HB1J222J	CHIP R 2.2K J 1/16W	
C600			CC73HCH1H101J	CHIP C 100PF J		R115			RK73HB1J222J	CHIP R 2.2K J 1/16W	
C601,602			CC73HCH1H470J	CHIP C 47PF J		R116			RK73HB1J103J	CHIP R 10K J 1/16W	
C700-713			CK73HB1H222K	CHIP C 2200PF K		R118			RK73HB1J103J	CHIP R 10K J 1/16W	
C715			CK73HB1A104K	CHIP C 0.10UF K		R121			RK73HB1J222J	CHIP R 2.2K J 1/16W	
C800			CK73HB1H222K	CHIP C 2200PF K		R123			RK73HB1J222J	CHIP R 2.2K J 1/16W	
C801,802			CK73HB1H102K	CHIP C 1000PF K		R124			RK73HB1J473J	CHIP R 47K J 1/16W	
C803,804			CK73HB1H222K	CHIP C 2200PF K		R126			RK73HB1J473J	CHIP R 47K J 1/16W	
C805			CK73HB1H102K	CHIP C 1000PF K		R129			RK73HB1J222J	CHIP R 2.2K J 1/16W	
C807-814			CK73HB1H222K	CHIP C 2200PF K		R130-132			RK73HB1J220J	CHIP R 22 J 1/16W	
CN328			E41-2237-05	FLAT CABLE CONNECTOR		R134			RK73HB1J220J	CHIP R 22 J 1/16W	
L101,102			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R137			RK73HB1J472J	CHIP R 4.7K J 1/16W	
L103-106			L92-0321-05	CHIP FERRITE	K1M2E2	R139			RK73HB1J105J	CHIP R 1.0M J 1/16W	
L103,104			L92-0321-05	CHIP FERRITE	KM1E1	R140			RK73HB1J222J	CHIP R 2.2K J 1/16W	
L200			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R141,142			RK73FB2B220J	CHIP R 22 J 1/8W	
L203-205			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R145,146			RK73HB1J153J	CHIP R 15K J 1/16W	
L212			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R147			RK73HB1J220J	CHIP R 22 J 1/16W	
L300-302			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R148			RK73HB1J473J	CHIP R 47K J 1/16W	
L303			L41-6805-33	SMALL FIXED INDUCTOR (68U)		R149			RK73HB1J472J	CHIP R 4.7K J 1/16W	
L304-307			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R150			RK73HB1J220J	CHIP R 22 J 1/16W	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

DIGITAL I/O UNIT (X88-2020-10: KOS-V500, 0-13: KOS-V1000)

Ref. No.	Add	New	Parts No.	Description	Destination
R153			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R157-163			RK73HB1J220J	CHIP R 22 J 1/16W	
R164,165			RK73HB1J470J	CHIP R 47 J 1/16W	
R166-169			RK73HB1J220J	CHIP R 22 J 1/16W	
R170,171			RK73HB1J330J	CHIP R 33 J 1/16W	
R172,173			RK73HB1J680J	CHIP R 68 J 1/16W	
R174,175			RK73HB1J470J	CHIP R 47 J 1/16W	
R176			RK73HB1J220J	CHIP R 22 J 1/16W	
R177-192			RK73HB1J473J	CHIP R 47K J 1/16W	
R193-198			RK73HB1J220J	CHIP R 22 J 1/16W	
R199			RK73HB1J473J	CHIP R 47K J 1/16W	
R200			RK73HB1J330J	CHIP R 33 J 1/16W	
R201			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R202			RK73HB1J106J	CHIP R 10M J 1/16W	
R203			RK73HB1J334J	CHIP R 330K J 1/16W	
R212,213			RK73HB1J100J	CHIP R 10 J 1/16W	
R219-221			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R223			RK73HB1J473J	CHIP R 47K J 1/16W	
R227			RK73HB1J100J	CHIP R 10 J 1/16W	
R248-250			RK73HB1J473J	CHIP R 47K J 1/16W	
R255			RK73HH1J104D	CHIP R 100K D 1/16W	
R258-260			RK73HB1J473J	CHIP R 47K J 1/16W	
R265-271			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R273			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R276			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R284-287			RK73HB1J473J	CHIP R 47K J 1/16W	
R291			RK73HB1J330J	CHIP R 33 J 1/16W	
R292-295			RK73HB1J473J	CHIP R 47K J 1/16W	
R296			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R297			RK73HB1J103J	CHIP R 10K J 1/16W	
R300,301		*	RN73GE1J302D	MF R 3K D 1/16W	
R304,305			RK73HB1J103J	CHIP R 10K J 1/16W	
R308			RK73HB1J103J	CHIP R 10K J 1/16W	
R310			RK73HB1J103J	CHIP R 10K J 1/16W	
R315			RK73HB1J101J	CHIP R 100 J 1/16W	
R316			RK73HB1J473J	CHIP R 47K J 1/16W	
R317			RK73HB1J220J	CHIP R 22 J 1/16W	
R318			RK73HB1J104J	CHIP R 100K J 1/16W	
R320-322			RK73HB1J103J	CHIP R 10K J 1/16W	
R324,325			RK73HB1J103J	CHIP R 10K J 1/16W	
R326,327			RK73HB1J822J	CHIP R 8.2K J 1/16W	
R328,329			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R332,333			RK73HB1J151J	CHIP R 150 J 1/16W	
R343			RK73HB1J101J	CHIP R 100 J 1/16W	
R344			RK73HB1J680J	CHIP R 68 J 1/16W	
R345			RK73HB1J152J	CHIP R 1.5K J 1/16W	
R347			RK73HH1J100D	CHIP R 10 D 1/16W	
R348			RK73HH1J131D	CHIP R 130 D 1/16W	
R351			RK73HH1J100D	CHIP R 10 D 1/16W	
R352			RK73HH1J131D	CHIP R 130 D 1/16W	
R356			RK73HH1J100D	CHIP R 10 D 1/16W	
R357			RK73HH1J131D	CHIP R 130 D 1/16W	
R367			RK73HB1J101J	CHIP R 100 J 1/16W	
R368			RK73HB1J272J	CHIP R 2.7K J 1/16W	
R369			RK73HB1J101J	CHIP R 100 J 1/16W	

Ref. No.	Add	New	Parts No.	Description	Destination
R370			RK73HB1J272J	CHIP R 2.7K J 1/16W	
R371			RK73HB1J101J	CHIP R 100 J 1/16W	
R372			RK73HB1J272J	CHIP R 2.7K J 1/16W	
R438			RK73HB1J103J	CHIP R 10K J 1/16W	
R440			RK73HB1J103J	CHIP R 10K J 1/16W	
R443-445			RK73HB1J473J	CHIP R 47K J 1/16W	
R458,459			RK73HB1J473J	CHIP R 47K J 1/16W	
R461			RK73HB1J473J	CHIP R 47K J 1/16W	
R462			RK73HB1J561J	CHIP R 560 J 1/16W	
R463-465			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R467			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R469			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R474			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R481,482			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R485-487			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R493			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R496			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R498			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R500			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R503			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R505			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R507			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R509			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R522			RK73HB1J470J	CHIP R 47 J 1/16W	
R523			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R524			RK73HB1J330J	CHIP R 33 J 1/16W	
R525			RK73HB1J201J	CHIP R 200 J 1/16W	
R529			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R600,601			RK73HB1J220J	CHIP R 22 J 1/16W	
R602,603			RK73HB1J153J	CHIP R 15K J 1/16W	
R701			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R703			RK73GB2A206J	CHIP R 20M J 1/10W	
R705			RK73HB1J331J	CHIP R 330 J 1/16W	
D102,103			AVRL1613R3FTA	VARISTOR	
D104,105			IMSA-6802-E	SURGE ABSORBER	
D106,107			AVRL1613R3FTA	VARISTOR	K1M2E2
D108,109			IMSA-6802-E	SURGE ABSORBER	K1M2E2
D300			DA204U	DIODE	
IC100			MIC2005-05YM6	MOS-IC	KM1E1
IC100,101			MIC2005-05YM6	MOS-IC	K1M2E2
IC104			TC7S86FU-F	MOS-IC	
IC105			SI-3018KM	ANALOGUE IC	
IC106		*	EP9307IRZ	MICROPROCESSOR IC	
IC108			TC7SH04FU-F	MOS-IC	
IC200			TC7WHU04FU-F	MOS-IC	
IC201			TC74LCX245FT	MOS-IC	
IC202,203			K4S561632HUI7	DRAM IC	
IC205			TC74LCX245FT	MOS-IC	
IC207			341S2094	MICROPROCESSOR IC	
IC211			DW128F70NF1Y3	ROM IC	
IC300			CXA3266Q	MOS-IC	
IC301			WM8728SEDSR	ANALOGUE IC	
IC302			BH7240AKV	MOS-IC	
IC303			TC7SET08FU-F	MOS-IC	

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

KOS-V1000/V500

PARTS LIST

DIGITAL I/O UNIT (X88-2020-10: KOS-V500, 0-13: KOS-V1000)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC305			NJM2100V-ZB	ANALOGUE IC							
IC309			LC74735NW8A20	MOS-IC							
IC332			NJM2864F05-ZB	ANALOGUE IC							
IC335			TC7WH14FU-F	MOS-IC							
Q302-304			2SA1576A	TRANSISTOR							

E1 : KOS-V500 E2 : KOS-V1000 (Europe) K : KOS-V500 K1 : KOS-V1000 (North America)
M1 : KOS-V500 M2 : KOS-V1000 (Other Areas)

△ Indicates safety critical components.

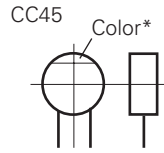
KOS-V1000/V500

PARTS LIST

CAPACITORS

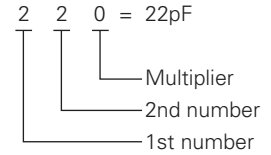
$\frac{C}{1} \frac{C}{2} \frac{45}{3} \frac{TH}{4} \frac{1H}{5} \frac{220}{6} \frac{J}{6}$

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, etc.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



• Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470±60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF : -10~+50 Less than 4.7μF : -10~+75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

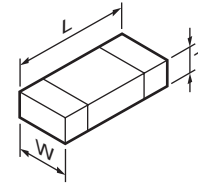
• Voltage rating

2nd word \ 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	-

• Chip capacitors

- (EX) $\frac{C}{1} \frac{C}{2} \frac{73}{3} \frac{F}{4} \frac{SL}{5} \frac{1H}{6} \frac{000}{7} \frac{J}{7}$ Refer to the table above.
- (Chip) (CH, RH, UJ, SL)
- 1 = Type
 - 2 = Shape
 - 3 = Dimension
 - 4 = Temp. coefficient
 - 5 = Voltage rating
 - 6 = Value
 - 7 = Tolerance
- (EX) $\frac{C}{1} \frac{K}{2} \frac{73}{3} \frac{F}{4} \frac{F}{5} \frac{1H}{6} \frac{000}{7} \frac{Z}{7}$
- (Chip) (B, F)

• Dimension



Chip capacitor

Code	L	W	T
Empty	5.6±0.5	5.0±0.5	Less than 2.0
A	4.5±0.5	3.2±0.4	Less than 2.0
B	4.5±0.5	2.0±0.3	Less than 2.0
C	4.5±0.5	1.25±0.2	Less than 1.25
D	3.2±0.4	2.5±0.3	Less than 1.5
E	3.2±0.2	1.6±0.2	Less than 1.25
F	2.0±0.3	1.25±0.2	Less than 1.25
G	1.6±0.2	0.8±0.2	Less than 1.0
H	1.0±0.05	0.5±0.05	0.5±0.05

Chip resistor

Code	L	W	T
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
H	1.0±0.05	0.5±0.05	0.35±0.05

• Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

RESISTORS

• Chip resistor (Carbon)

- (EX) $\frac{R}{1} \frac{D}{2} \frac{73}{3} \frac{E}{4} \frac{B}{5} \frac{2B}{6} \frac{000}{7} \frac{J}{7}$
- (Chip) (B, F)

• Carbon resistor (Normal type)

- (EX) $\frac{R}{1} \frac{D}{2} \frac{14}{3} \frac{B}{4} \frac{B}{5} \frac{2C}{6} \frac{000}{7} \frac{J}{7}$

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

KOS-V1000/V500

SPECIFICATIONS

KOS-V1000

USB interface section

USB Standard	USB 1.1/ 2.0
File System	FAT 16/ 32
Maximum Supply Current	500mA
D/A Converter	24bit
Decoder	MP3/ WMA/ AAC

FM tuner section

Frequency Range	
E,M	87.5~108.0MHz (50kHz)
K	87.9~107.9MHz (200kHz)
Usable Sensitivity	
E (S/N : 26dB)	0.7 μ V/75 Ω
K,M (S/N : 30dB)	9.3dBf (0.8 μ V/75 Ω)
Quieting Sensitivity	
E (S/N : 46dB)	1.6 μ V/75 Ω
K,M (S/N : 50dB)	15.2dBf (1.6 μ V/75 Ω)
Frequency Response (\pm 3.0dB)	30Hz~15kHz
S/N Ratio (MONO)	
E	65dB
S/N	
K,M	70dB (MONO)
Selectivity (\pm 400kHz)	\geq 80dB
Stereo Separation	
E	35dB (1kHz)
K,M	40dB (1kHz)

AM tuner section : K type

Frequency Range.....	530~1700kHz (10kHz)
Usable Sensitivity (S/N : 20dB)	28dB μ

LW tuner section : E,M type

Frequency Range.....	153~281kHz (9kHz)
Usable Sensitivity (S/N : 20dB)	
E	45 μ V
M	28dB μ

MW tuner section : E,M type

Frequency Range.....	531~1611kHz (9kHz)
Usable Sensitivity (S/N : 20dB)	
E	25 μ V
M	28dB μ

Video section

Color system of external video input

E,M.....	NTSC/ PAL
K.....	NTSC
External video input level (RCA jacks).....	1Vp-p/75 Ω
External audio max input level (RCA jacks).....	2V/25k Ω
Analog RGB input (NAVI) (TV-SECAM).....	0.7Vp-p/75 Ω
Video Output level (RCA jacks)	1Vp-p/75 Ω
Audio Output level (RCA jacks)	1.2V/10k Ω

Audio section

Maximum Power (Front & Rear)	50W x 4
Full Bandwidth Power (Front & Rear)	
E (DIN45324, +B=14.4V)	30W x 4
K (4 Ω , 14.4V, 1% THD)	22W x 4
M (at less than 1% THD).....	22W x 4
Preout level.....	5V/10k Ω
Preout impedance	80 Ω
Speaker impedance.....	4~8 Ω
Tone action	
Bass	100Hz \pm 8dB
Middle	1kHz \pm 8dB
Treble	10kHz \pm 8dB

External SW

Maximum Power Supply Current	500mA
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General

Operating voltage	14.4V (11~16V allowable)
Current Consumption	15A
Installation Size (W x H x D)	
324.4 x 48.2 x 254.4mm (12-13/16 x 1-14/16 x 10 inch)	
Operational Temperature Range	-10 $^{\circ}$ C~+60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C~+85 $^{\circ}$ C
Weight	2.8kg (6.17lbs)

KOS-V1000/V500

SPECIFICATIONS

KOS-V500

USB interface section

USB Standard	USB 1.1/ 2.0
File System	FAT 16/ 32
Maximum Supply Current	500mA
D/A Converter	24bit
Decoder	MP3/ WMA/ AAC

FM tuner section

Frequency Range	
E	87.5~108.0MHz (50kHz space)
K	87.9~107.9MHz (200kHz)
M	87.5~108.0MHz (50kHz), 87.9~107.9MHz (200kHz)
Usable Sensitivity	
E (S/N : 26dB)	0.7 μ V/75 Ω
K, M (S/N : 30dB)	9.3dBf (0.8 μ V/75 Ω)
Quieting Sensitivity	
E (S/N : 46dB)	1.6 μ V/75 Ω
K, M (S/N : 50dB)	15.2dBf (1.6 μ V/75 Ω)
Frequency Response (\pm 3.0dB)	30Hz~15kHz
S/N Ratio (MONO)	
E	65dB
S/N	
K, M	70dB (MONO)
Selectivity (\pm 400kHz)	\geq 80dB
Stereo Separation	
E	35dB (1kHz)
K, M	40dB (1kHz)

AM tuner section : K type

Frequency Range.....	530~1700kHz (10kHz)
Usable Sensitivity (S/N : 20dB)	28dB μ (25 μ V)

LW tuner section : E, M type

Frequency Range	
E	153~281kHz
M	153~281kHz (9kHz), 530~1700kHz (10kHz)
Usable Sensitivity (S/N : 20dB)	45 μ V

MW tuner section : E, M type

Frequency Range.....	531~1611kHz (9kHz space)
Usable Sensitivity (S/N : 20dB)	25 μ V

Video section

Color system of external video input

E, M.....	NTSC/ PAL
K.....	NTSC
External video input level (RCA jacks).....	1Vp-p/75 Ω
External audio max input level (RCA jacks).....	2V/25k Ω
Analog RGB input (NAVI) (TV-SECAM).....	0.7Vp-p/75 Ω
Video Output level (RCA jacks)	1Vp-p/75 Ω
Audio Output level (RCA jacks)	1.2V/10k Ω

Audio section

Maximum Power (Front & Rear)	50W x 4
Full Bandwidth Power (Front & Rear)	
E (DIN45324, +B=14.4V)	30W x 4
K (4 Ω , 14.4V, 1% THD)	22W x 4
M (at less than 1% THD).....	22W x 4
Preout level.....	2V/10k Ω
Preout impedance	\leq 600 Ω
Speaker impedance.....	4~8 Ω
Tone action	
Bass	100Hz \pm 8dB
Middle	1kHz \pm 8dB
Treble	10kHz \pm 8dB

External SW

Maximum Power Supply Current.....	500mA
-----------------------------------	-------

General

Operating voltage	14.4V (11~16V allowable)
Current Consumption	15A
Installation Size (W x H x D)	
319.2 x 41.0 x 232.0mm (12-10/16 x 1-10/16 x 9-2/16 inch)	
Operational Temperature Range	-10 $^{\circ}$ C~+60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C~+85 $^{\circ}$ C
Weight	2.0kg (4.41lbs)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

