

DDX7032/7032M/712

DNX7120/7220/7320

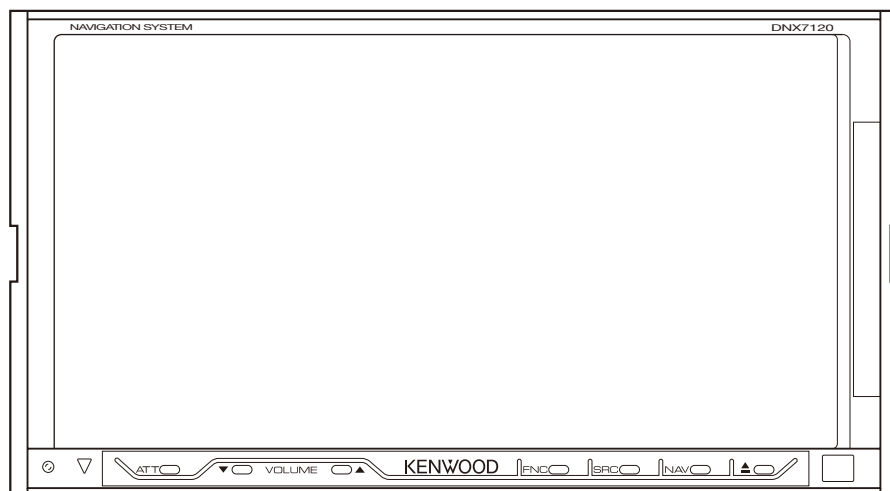
SERVICE MANUAL

KENWOOD

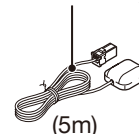
Kenwood Corporation

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B53-0634-00 (N) 429

Illustrations is DNX7120



ANT module(GPS-ANT)* (W02-5305-05) Mounting hardware* (J21-9867-04)



Screw set* (N99-1779-15)



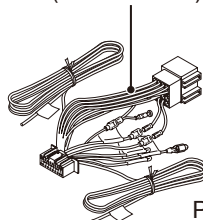
Adhesive double-coated tape* (H30-0595-04)



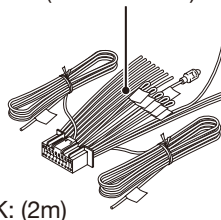
Clamper* (J11-0660-05)



DC cord* (E30-6825-05)

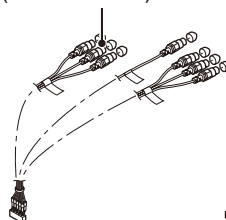


DC cord* (E30-6824-05)

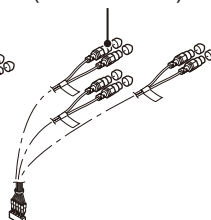


PRK: (2m)
REV: (5m)

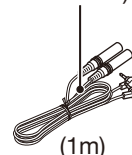
Cord with pinplug(AV) (E30-6792-05)



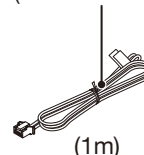
Cord with pinplug(PRE) (E30-6794-05)



Cord with plug(ipod)* (E30-6785-05)



Cord with plug(relay) (E30-6786-05)



Remote controller assy
(A70-2082-15) RC-DV330 :DNX
(A70-2083-15) RC-DV340 :DDX

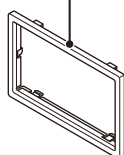


(ILLUSTRATION IS
RC-DV340)

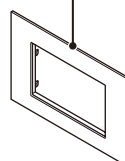
Size AAA battery
Not supplied



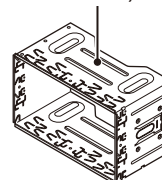
Escutcheon (B07-3224-01)



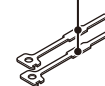
Escutcheon* (B07-3172-12)



Mounting hardware assy (J22-0657-03)



Lever (D10-4589-04) x2

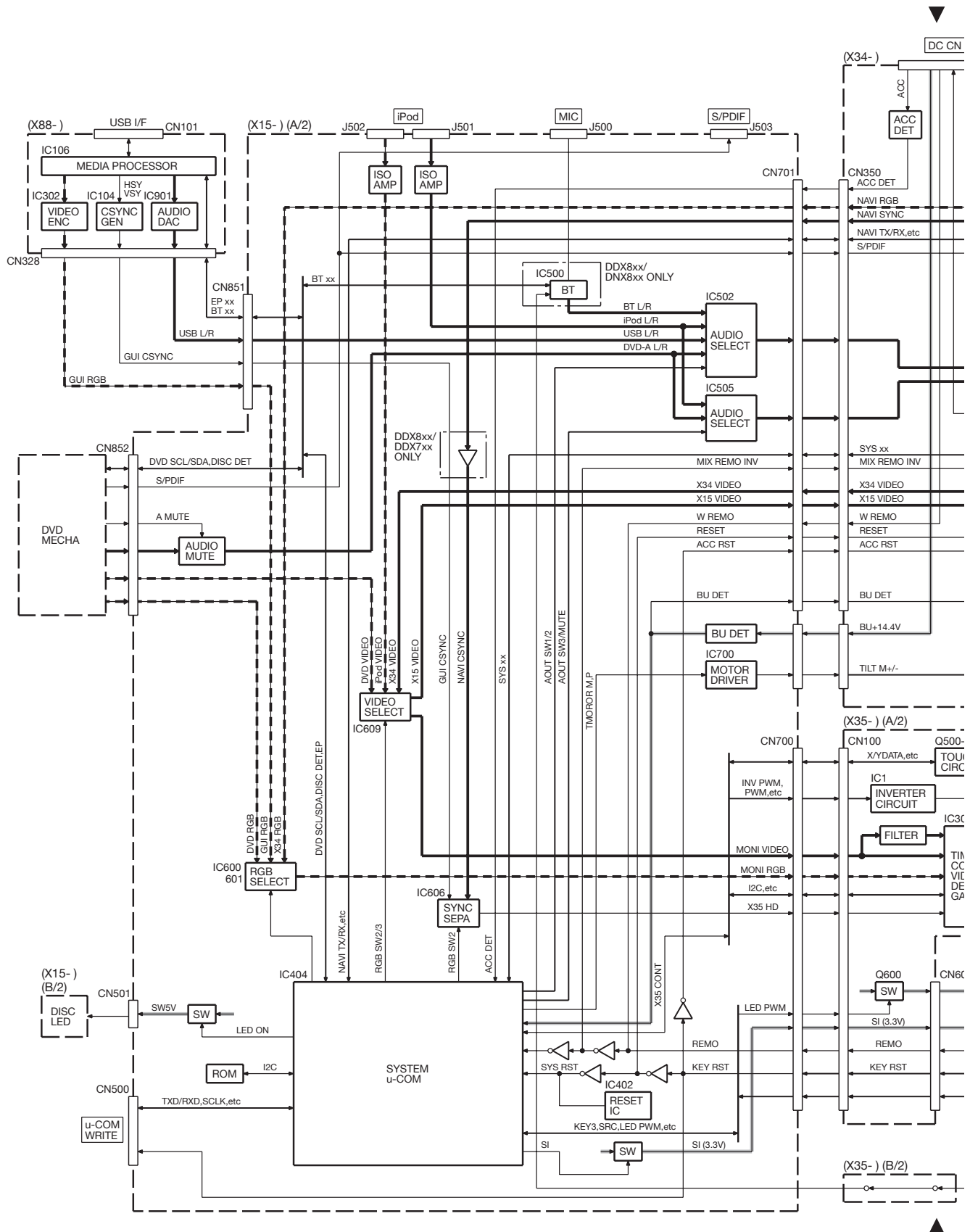


- The IC106 in the Digital I/O unit (X88-2030-11) are not replaceable components. When this IC are defective, replace the whole Digital I/O unit (X88-2030-11).
- The IC5,9,21 and IC60 in the DVD unit (X37-1120-06) are not replaceable components. When these ICs are defective, replace the whole DVD mechanism assembly (X92-6180-01). You cannot replace only the board.

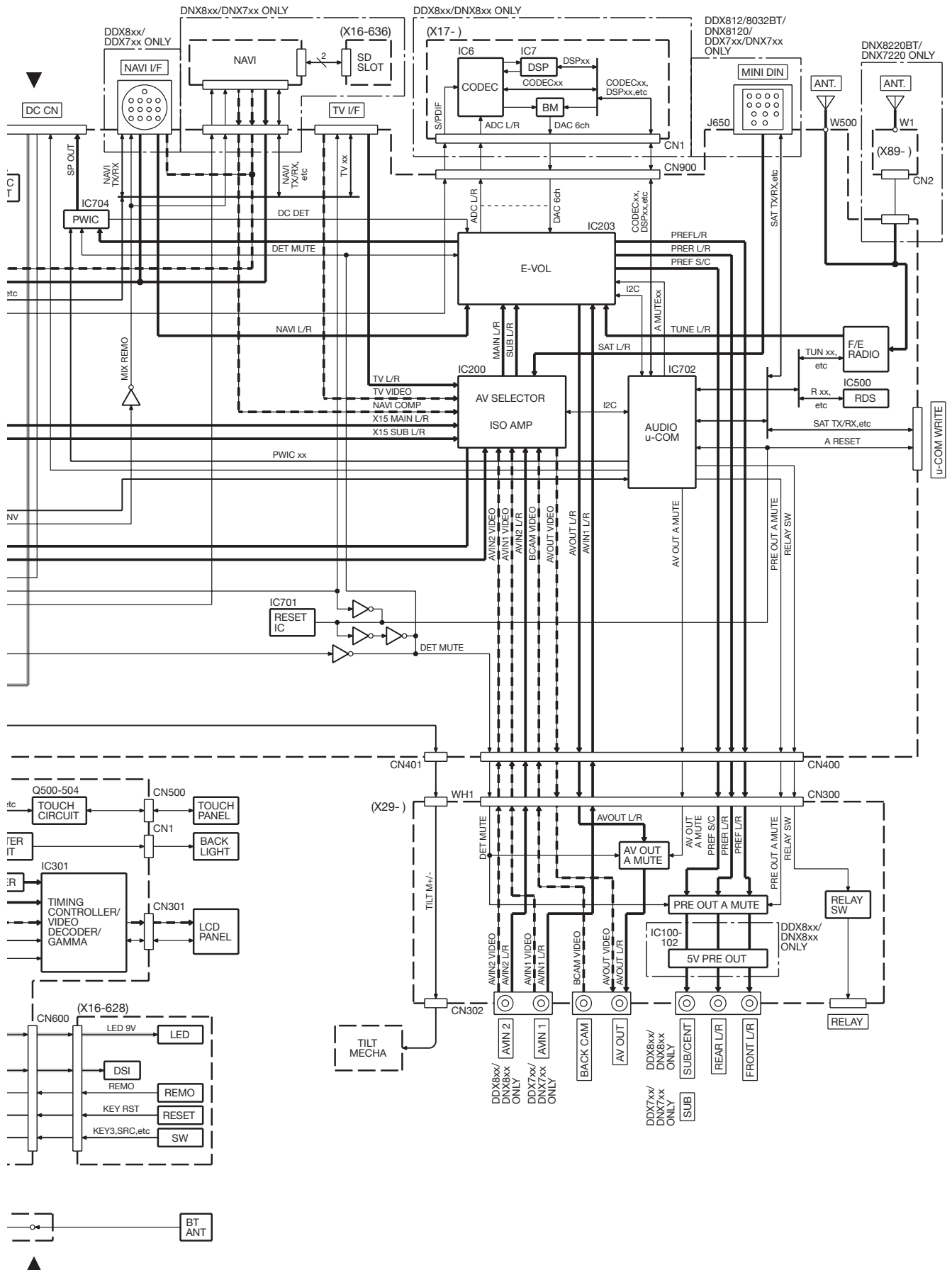
* Depends on the models. Refer to the parts list.



BLOCK DIAGRAM



BLOCK DIAGRAM



The schematic diagram illustrates the X37-112 circuit board, centered around the LPC01/LPC02 microcontroller (IC1). The board is populated with numerous integrated circuits and passive components, all interconnected to manage data flow, power distribution, and motor control.

Key Components and Connections:

- Microcontroller (IC1):** LPC01/LPC02, configured with a 27MHz oscillator. It manages the system's core operations, interfacing with various peripherals.
- Optical Pickup (KDP2C):** Provides data from the disc, with signals like PDIC.VCC, DVD.LD/CD.LD, HFM, VREFH, IMON.VR.DVD.VR.CD, PDIC.I/V.OUT, THERMISTER, and FO+-.TR+ connected to the microcontroller.
- Motor & Actuator Driver (IC10):** Controls the motor and actuator, receiving signals like H1H, H1L, HB, A1, A2, A3, and VREF.EC. It also manages SPIN, IN2-6, MUTE, FG, BMS, and STBY signals.
- Memory (IC54, IC5):** SDRAM (IC54) and Flash ROM (IC5) provide data storage. The Flash ROM is connected to the microcontroller's EXADT0-15, NEXWE, NEXWE, P15, EXADT0-15, EXADT16-19, P03, P6, P14, and ATAPI.IF lines.
- Power Regulation (IC21, IC9, IC49, IC50.51, IC60):** Multiple voltage regulators (SW REG, E2PROM, 3.3V to 1.2V, 5V REG) and a low-pass filter (L.P.F.) ensure stable power supply for different sections of the board.
- Signal Processing (IC53, IC57, IC12):** A buffer (IC53) and two video amplifiers (IC57, IC12) handle video signals. A logic IC (IC55) and a D-FF (IC42) manage digital signals.
- Connectors:** The board features several connectors for external interfaces: CONN01 (30P), CONN02 (28P), CONN03 (10P), CONN04 (50P), and CONN05 (35P).

The diagram shows a complex network of connections, including power planes, ground connections, and signal traces, ensuring the reliable operation of the X37-112 circuit board.

COMPONENTS DESCRIPTION

● VIDEO CONTROL UNIT (X15-115x-xx/X15-117x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC3	5V regulator	T_P+5V, BU_DET
IC4	3.3V regulator	TILT3.3V
IC8	3.3V regulator	TC3.3V
IC200	DC-DC control IC	DC-DC control (MECHA8V, V5V, SW5V (D5V))
IC201	DC-DC control IC	DC-DC control (SW3.3V, P5V, USB5V)
IC400	E2MROM	For saving the settings
IC401	E2MROM	For ROM correction
IC402	Reset IC	System μ -com reset
IC403	Buffer	Buffer for DVBT communication
IC404	MPU	System μ -com
IC405	AND	3.3→5V level conversion (NAVI_RX)
IC500	Op amp	AMP for BT audio
IC501	VIDEO ISO AMP	iPod video signal
IC502	Audio selector	MAIN
IC503	Buffer	BT control signal buffer
IC504	AUDIO ISO AMP	iPod audio signal
IC505	Audio selector	SUB
IC600	Video switch	NAVI or GRAPHIC
IC601	Video switch	DVD or NAVI & GRAPHIC
IC604	NOT	3.3→5V level conversion (NAVI_SYNC)
IC606	SYNC SW	GRAPHIC or NAVI
IC608	Buffer	VSY buffer
IC609	Video switch	X15, X34 VIDEO, COMP
IC612	NOT	NAVI_SYNC reversal
IC700	MOTOR DRIVER	TILT MECHA
Q1	SW	BU_DET detection circuit
Q2,3	SW	P-ON 14V control
Q4,5,11,12	SW	BU_DET detection circuit
Q13	SW	P-ON 14V control
Q14	SW	BU_DET detection circuit
Q15	SW FET	P-ON 14V ON/OFF
Q16~18	SW	BU_DET detection circuit
Q19	Short protection	BU power supply regulator (8.5V)
Q20	8.5V regulator control	BU power supply regulator (8.5V)
Q21	8.5V regulator	BU power supply regulator (8.5V)
Q22,23	8.5V regulator control	BU power supply regulator (8.5V)
Q28	8V regulator	DVD A8V regulator
Q29,31,32	8V regulator control	DVD A8V regulator
Q35	8V regulator	A8V regulator
Q37~39	8V regulator control	A8V regulator
Q44,45	SW	T_P5.0V switch
Q46	9V regulator control	LED9V regulator

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q47	9V regulator	LED9V regulator
Q48,49	SW	TILT3.3V switch
Q200	SW	DC-DC protection control
Q201	SW	DC-DC output voltage switching
Q202~204	SW	DC-DC protection control
Q205	SW	DC-DC SW FET (5V or 8.0V)
Q206	SW	DC-DC SW FET (5V)
Q207	SW	DC-DC SW FET (3.3V)
Q208	SW	DC-DC SW FET (5V)
Q400	SW	TV RESET
Q402	SW	μ-com reset SW
Q403,404	SW	SI
Q500,501	SW	Reset circuit of Garmin NAVI
Q502,503	SW	Audio switching MAIN L/R output SW
Q504	SW	Reset circuit of Garmin NAVI
Q505	SW	Disk slot LED control
Q506	SW	X35 REMO and W_REMO detection and NAVI_REMO output
Q507,508	SW	Audio switching SUB L/R output SW
Q509	SW	Disk slot LED control
Q510	SW	MIX_REMO output
Q600	SW	RGB signal_R
Q601	SW	RGB signal_G
Q602	SW	RGB signal_B
Q603	SW	MUTE of RGB signal_R
Q604	SW	MUTE of RGB signal_G
Q605	SW	MUTE of RGB signal_B
Q700	Buffer	SPDIF signal
Q850	MUTE	DVD MUTE (Lch)
Q851	MUTE	DVD MUTE (Rch)
Q852	SW	DVD MUTE control

● SWITCH UNIT (X16-6280-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Remote control sensor	Infrared Detection unit for Remote Control

● AUDIO UNIT (X17-2030-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	OP amp	For audio signal amplification (Center, Sub-woofer)
IC2	OP amp	For audio signal amplification (Rear)
IC3,4	OP amp	For audio signal amplification (Front)
IC5	BASS MANAGEMENT	BASS MANAGEMENT
IC6	CODEC	DIR and A/D, D/A converter
IC7	DSP	Processing of computing for Dolby 5.1ch, dts etc.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC8	3-terminal regulator	DSP_D3.3V POWER SUPPLY
IC10	3-terminal regulator	DSP_D1.25V POWER SUPPLY

● CONTROL CIRCUIT UNIT (X29-4490-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC100~102	OP amp	5V_AMP
IC103	Voltage Converter	Power supply (9V→ -9V)
Q4	Transistor	AV OUT_AR Mute
Q5	Transistor	Mute SW for AV OUT
Q6	Transistor	AV OUT_AL Mute
Q100	Transistor	PRE FL_Mute
Q101	Transistor	PRE OUT F/R Mute SW
Q102	Transistor	PRE FR_Mute
Q103	Transistor	PRE RL_Mute
Q104	Transistor	PRE RR_Mute
Q105	Transistor	PRE SWR_Mute
Q106	Transistor	PRE OUT SWR/CENTER Mute SW
Q107	Transistor	PRE CENTER_Mute
Q108	Transistor	P_ON SW
Q109,110	Transistor	+B sw
Q111~116	Transistor	Voltage Converter circuit (9V→ -9V)
Q200~205	Transistor	Relay SW1 output, and over current detection circuit
Q206~211	Transistor	Relay SW2 output, and over current detection circuit

● ELECTRIC UNIT (X34-584x-xx/X34-598x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC100	3-terminal regulator	DSP_A5V circuit
IC101	3-terminal regulator	T8V (Distributor power supply) circuit
IC102	Op amp	PW-IC midpoint circuit
IC103	3-terminal regulator	Generate SEL_A5V (AV selector AK4220)
IC104	3-terminal regulator	Generate SEL_3.3V (AV selector AK4220)
IC105	Op amp	PW-IC midpoint circuit
IC106	3-terminal regulator	Generate A8V (Audio 8V)
IC200	AV selector	Audio/Video signal selector
IC201	Op amp	AV selector ISO-AMP
IC202	Op amp	AV-IN2 ISO-AMP
IC203	EVOL IC	Audio volume control and audio signal selection
IC300	Op amp	Buffer for ADC-L/R signal
IC303	Logic IC (Buffer)	DSP, CODEC control and Data signal processing
IC304	Logic IC (AND)	DSP, CODEC control and Data signal processing
IC500	RDS decoder IC	For RDS signal processing and demodulation
IC550	Logic IC (Inverter)	Processing of remote controller signal from NAVI
IC650	Logic IC (AND)	Switching of SAT_TX data

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC701	Voltage detection IC	μ-com reset voltage (3.5V) monitoring
IC702	Pin100 μ-com	Mainly control Audio board
IC704	Power IC	Power amplifier for speaker output
IC705	3-terminal regulator	DSP_D5V circuit
Q1,2	Transistor	P_CON output circuit
Q3	Transistor	Reverse detection circuit
Q4	Transistor	P_CON output circuit
Q5	Transistor	Parking detection circuit
Q6	Transistor	P_CON output circuit
Q7	Transistor	ANT_CON output circuit
Q8	Transistor	ILLUMI detection circuit
Q9	Transistor	ANT_CON output circuit
Q10	Transistor	BU detection circuit
Q11	Transistor	EXT_CONT output circuit
Q13	Transistor	SURGE detection circuit
Q14	Transistor	ACC detection circuit
Q100	Transistor	DSP_A5V circuit
Q101	Transistor	PW-IC midpoint circuit
Q102	Transistor	DSP_A5V circuit
Q103	Transistor	PW-IC midpoint circuit
Q104	Transistor	T8V circuit (E-TYPE ONLY)
Q105	Transistor	BU5V circuit
Q106	Transistor	PW-IC midpoint circuit
Q107	Transistor	T8V circuit (E-TYPE ONLY)
Q108	Transistor	BU5V circuit
Q109,110	Transistor	PW-IC midpoint circuit
Q111,112	Transistor	SW5V circuit
Q113,114	Transistor	SIR_SW14V circuit (K/R-TYPE ONLY)
Q115,116	Transistor	A8V circuit
Q117	Transistor	SIR_SW14V circuit (K/R-TYPE ONLY)
Q118	Transistor	A8V circuit
Q119	Transistor	SIR_SW14V circuit (K/R-TYPE ONLY)
Q120~122	Transistor	DSP_D8V circuit
Q300~302	Transistor	ADC_MUTE circuit
Q500,501	Transistor	On during AM (Tuner8V)
Q650,651	Transistor	SAT_RX SW circuit
Q652	Transistor	SIRIUS_DET SW circuit
Q700	Transistor	RESET detection circuit
Q701	Transistor	DET MUTE circuit (Trigger Reset)
Q702	Transistor	Video signal detection circuit (AV selector → μ-com)
Q703	Transistor	AV selector control RESET circuit
Q704	Transistor	DET MUTE circuit (Trigger Reset)
Q705	Transistor	AV selector control circuit

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q706	Transistor	DET MUTE circuit (Trigger Reset)
Q707	Transistor	AV selector control circuit

● VIDEO UNIT (X35-4940-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Inverter control IC	Control and drive the inverter circuit for the back light
IC100	Mono-multi	Delay 5V power supply for DC/DC IC
IC101	NOT	Reverse
IC102	DC/DC converter IC	+12.5V/-12.0V power supply for VCOM amplifier and +15.0V power supply for LCD
IC200	Op amp	For VCOM amplifier
IC300	Regulator	2.5V regulator
IC301	Chroma and Gamma T/C	Control LCD module
IC302	OR	3.3V conversion
IC303	F ROM	For Mstar FW
IC304	NOT	Reverse
Q1	5V constant voltage	5V power supply for inverter control IC
Q2,3	Inverter driver	Drive the inverter circuit
Q4	Dimmer SW	Be turned on or off by the PWM control signal to dim or not to dim the back light.
Q5	Switch	SW to change the free run frequency of inverter control IC
Q140,141	-10.0V regulator control	-10V regulator for LCD
Q202,203,205	Buffer	For VCOM current amplification
Q300,301	Buffer	For Chroma trap
Q302	Switch	NTSC/PAL switching
Q303,304	Switch	For Mstar RESET
Q500	Touch panel X1 SW	X1 SW: Be turned on when the touch panel is touched or when there is an input at X axis, and apply voltage.
Q501	Touch panel X0 SW	X0 SW: Be turned on when there is an input at X axis, and apply voltage
Q502	Touch panel Y1 SW	Y1 SW: Be turned on when there is an input at Y axis, and apply voltage
Q503	Touch panel Y0 SW	Y0 SW: Be turned on when there is an input at Y axis, and apply voltage
Q504	Touch panel Y0/Y1 SW	Y0/Y1 SW: Be turned on when there is an input at Y axis, and be turned off when there is an input at X axis
Q600,601	LED SW	Control LED (PWM control).

● DIGITAL I/O UNIT (X88-2030-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC100	Fixed Current Limit Power Distribution Switch	Large current distribution switch for USB1
IC101	Fixed Current Limit Power Distribution Switch	Large current distribution switch for USB2
IC104	Exclusive OR Gate	EP_SYNC (composite sync) output
IC105	Low Dropout Voltage Linear Regulator	SW3.3V→1.8V (for EP9307IRZ)
IC106	System-On-Chip Processor	Media Processor
IC108	Inverter	E_HSYNC Buffer
IC200	Triple Inverter	Sub Clock Buffer

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC202,203	SDRAM 256Mbit	SDRAM for work memory
IC207	iPod Authentication Coprocessor	iPod Authentication
IC211	NOR Flash Memory 256Mbit	Flash Memory for program data and graphic data
IC302	Color TV signal encoder	Graphic signal digital/analog converter
IC305	Dual OP-Amp (LPF)	Stereo DAC Output LPF
IC901	Stereo DAC	Audio signal digital/analog converter
IC902	Low Dropout Voltage Regulator	A8V→A5V (for Stereo DAC and LPF)
IC903	Dual 2-input AND Gate	Output ENABLE for MIC2005-08YM6

● DAUGHTER UNIT (X89-3062-71)

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q1	AMP	GAIN_AMP in FM band

● DVD UNIT (X37-1120-06)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	One chip LSI for DVD player	RF signal processing / Servo processing / Decoding processing / AV decoding processing
IC5	FLASH ROM	To retain F/W for one chip LSI (Nonvolatile memory)
IC9	EEP ROM	To retain data for one chip LSI (Nonvolatile memory)
IC10	Driver IC	Fo coil / Tr coil / SP motor / SLD motor / LO-EJ motor drive
IC12	1ch video AMP	+6dB amplifier with internal composite video output filter
IC21	2-output switching REG	5V→3.3V/1.2V
IC39	OP-AMP for lop measurement	For lop measurement
IC42	Logic IC for port extension	For port extension
IC49	Low voltage logic	For S/PDIF signal amplitude conversion (3.3V→1.2V)
IC54	SDRAM	To retain data for one chip LSI (Nonvolatile memory)
IC55,56	Logic IC for port extension	For port extension
Q1	Transistor with internal resistor	LO_MUTE control
Q2	Transistor with internal resistor	For FG signal
Q3	Transistor with internal resistor	For BMS
Q4	Transistor with internal resistor	DRMUTE control
Q10	Front end transistor for APC	Control of CD laser diode emission
Q11	Front end transistor for APC	Control of DVD laser diode emission
Q12	Rear end transistor for APC	Control of CD laser diode emission
Q13	Rear end transistor for APC	Control of DVD laser diode emission
Q14	MOS-FET	ON/OFF control of CD laser diode
Q15	MOS-FET	ON/OFF control of DVD laser diode
Q20	MOS-FET for level shifter	Level shifter for I2C clock
Q21	MOS-FET for level shifter	Level shifter for I2C data
Q24	MOS-FET	For lop measurement
Q25	Transistor with internal resistor	IFSEL control
Q27	Transistor with internal resistor	HFM ON/OFF control
Q28	Transistor for APC	For CD laser diode protection (Current limiter)
Q29	Transistor for APC	For DVD laser diode protection (Current limiter)

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM MICROCOMPUTER: 30878MJBA24GP (X15: IC404)

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
1	AV_SDA/TC_SDA/E2P_SDA	I/O	Communication data between AV_SW, T/C, and E2P		
2	NC	O	NC		
3	HSY	I	Hsync input: For VCOM adjustment input from X35		
4	MIX_REMO	I	Remote controller data input		
5	SYS_MDATA	O	Data output to AUDIO μ -com		
6	SYS_SDATA	I	Data input from AUDIO μ -com		
7	SYS_CLK	O	Communication clock with AUDIO μ -com		
8	SYS_MREQ	O	Request to AUDIO μ -com		
9	SYS_SREQ	I	Request from AUDIO μ -com		
10	SYS_ON	O	ON/OFF control of AUDIO μ -com		
11	X0	O	Touch panel control		
12	X1	O	Touch panel control		
13	Y0	O	Touch panel control		
14	ACC_DET	I	ACC detection		L: ACC ON
15	BYTE	I	External data bus width switching		Connected to Vss since this is a single chip
16	CNVSS	I	Terminal for writing data in μ -com		"L" during the normal operation
17	XCIN	I	Sub clock input		32.768kHz
18	XCOUT	O	Sub clock output		32.768kHz
19	RESET	I			L: RESET
20	XOUT	O	Main clock output		11.0592MHz
21	VSS	-			
22	XIN	I	Main clock input		11.0592MHz
23	VCC1	-			
24	NMI	I			Not used
25	BU_DET	I	BU detection		L: BU ON, H: Reduced voltage
26	TV_SC_REQ	I	Communication request from TV_COM		
27	TV_MC_REQ	O	Communication request to TV_COM		
28	TV_SC_CON	O	Start request to TV_COM		
29	TV_SC_DATA	I	DATA input from TV_COM		
30	TV_CLK	O	CLK output to TV_COM		
31	TV_MC_DATA	O	DATA output to TV_COM		
32	PWM	O	LCD brightness control		PWM output
33	POWER_PWM	O	DC-DC_IC oscillation frequency control		381kHz or 316kHz
34	TV_JUDGE	I	Determination of TV_BOX if it is old or new		H: Old, L: New
35	INV_PWM	O	Inverter oscillation frequency control		PWM output
36	NAVI_RX	I	Navi control data input		
37	NAVI_TX	O	Navi control data output		
38	TXD	O	Terminal for writing data in μ -com		
39	VCC1	-			
40	RxD	I	Terminal for writing data in μ -com		
41	VSS	-			
42	SCLK	I	Terminal for writing data in μ -com		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
43	BUSY	O	Terminal for writing data in μ -com		
44	DVD_SDA	I/O	Communication data with DVD mechanism		
45	DVD_SCL	O	Communication clock with DVD mechanism		
46	DISC_DET	I	Disc detection		L: Detected (Disc is found)
47	NAVI_OFF_DET	I	Standby request for Navi power supply Off		Not used
48	DVD_RESET	O	Reset of DVD mechanism		
49	TMOTOR_P	O	Tilt control of the tilt mechanism		
50	TMOTOR_M	O	Tilt control of the tilt mechanism		
51	NC	O	NC		Not used
52	AOUT_SW1	O	AUDIO selector switching	②	
53	AOUT_SW2	O	AUDIO selector switching	②	
54	EPM	I			
55	AOUT_MUTE	O	AUDIO selector switching	②	
56	AOUT_SW3	O	AUDIO selector switching	②	
57	VSS	-			
58	NC	O	NC		Not used
59	VCC2	-			
60	LED_PWM	O	KEY LED brightness control		H: Turn on.
61-63	NC	O	NC		Not used
64	RGB_MUTE	O	RGB MUTE control		H: MUTE ON
65	CE	I			
66,67	NC	O	NC		Not used
68	RGB_SW2	O	RGB selector switching	②	
69	RGB_SW3	O	RGB selector switching	②	
70	PGOOD	I	Error detection in DC-DC_IC		L: Power supply error detected
71	POWER_START	O	DC-DC_IC soft start		L: Start, H: Stop
72	LED_ON	O	Disc slot LED ON/OFF		H: LED ON, L: LED OFF
73	NC	O	NC		Not used
74	VCC2	-			
75	NC	O	NC		Not used
76	VSS	-			
77	SI	O	SI control		When ACC is OFF: Repetition of H and L
78	SRC	I	Source key		L: SRC
79,80	NC	O	NC		Not used
81	EP_BU_DET	O	Make X88 recognize the BU detection		Not used. Output is fixed to L
82	EP_STBY	I	Media processor standby		Not used
83	EP_INI	O	Media processor initial		
84	EP_CON	O	Permission to operate media processor		Not used. Output is fixed to L
85	EP_RST	O	Media processor reset		
86	EP_SREQ	I	Request from media processor		
87	EP_MREQ	O	Request to media processor		
88	EP_RX	I	Media processor control data input		
89	NC	O	NC		Not used
90	EP_TX	O	Media processor control data output		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
91	VCC2	-			
92	PON	O	Power ON/OFF control		H: Power ON
93	VSS	-			
94	MCNT	O	Switching of tilt mechanism power supply voltage		H: 8V, L: 5V
95	JIGU_EJ	I	Operable without tilt mechanism		
96-99	NC	O	NC		Not used
100	WRT_E2P	I	Used for writing data in E2P		H: E2P access, L: Normal
101	NC	O	NC		Not used
102	VD	I	For VCOM adjustment		
103,104	NC	O	NC		Not used
105	EJECT	I	Eject key		
106,107	NC	O	NC		Not used
108	INV_SW	O	Switching of Inverter free run frequency		
109	ENABLE	O	Back light ON/OFF		H: ON, L: OFF
110	WRT_TC	I	Used to update T/C		H: T/C access, L: Normal
111~113	NC	O	NC		Not used
114	TYPE1	I	Destination setting	①	
115	TYPE2	I	Destination setting	①	
116	TYPE3	I	Destination setting	①	
117-121	NC	O	NC		Not used
122	TYPE0	I	Destination setting	①	
123	TC_RESET	O	Reset of T/C		
124	NT_PAL_IN	I	NTSC/PAL identification input		H: NTSC, L: PAL
125	VMUTE	O	VMUTE of X35		H: MUTE ON
126	MST_WAIT	I	MST WAIT request		
127	TC_R	I	For RGB auto adjustment		Not used
128	TC_G	I	For RGB auto adjustment		Not used
129	TC_B	I	For RGB auto adjustment		Not used
130	VSS	-			
131	VCOM	I	For γ curve auto adjustment / DEF2.8V		
132	VCC1	-			
133-135	NC	O	NC		Not used
136	KEY3	I	Key		
137	XDATA	I	Touch data input		
138	YDATA	I	Touch data input		
139	R_SENS	I	Panel mechanism tilt detection		
140	AVSS	-			
141	A_REMO	I	Analog remote controller for Matsuda		Not used
142	VREF	I			
143	AVCC	-			
144	AV_SCL/TC_SCL/E2P_SCL	O	Communication clock with AV_SW, T/C, and E2P		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Truth value table

① Destination setting

MODEL	Category	Destination	TYPE3	TYPE2	TYPE1	TYPE0
Low	DDX	K	0	0	1	*
		E	-	-	-	-
		M/M2	0	0	1	*
		V/X	0	0	1	*
		R	0	0	1	*
	DNX	K	0	1	1	*
		E	0	1	1	*
		M	0	1	1	*
		X	0	1	1	*
		R	-	-	-	-
Mid	DDX	K	1	0	1	*
		E/E2	1	0	1	*
		M/M2	1	0	1	*
		X	1	0	1	*
		R	1	0	1	*
	DNX	K	1	1	1	*
		E	1	1	1	*
		M	-	-	-	-
		X	-	-	-	-
		R	-	-	-	-

TYPE0 is an AD input.

Refer to the next table (TYPE0 Setup Voltage) for “*”.

TYPE0 Setup Voltage (Power supply voltage = 3.3)

Destination	Settings for μ -com			Pull down resistance	Pull up resistance
	min	Mid point voltage	max		
K	0.00	0.00	0.41	10	None
E/E2	0.42	0.83	1.23	3.3	10
M/M2	1.24	1.65	2.06	10	10
V/X	2.07	2.48	2.88	30	10
R	2.89		3.30	None	10

② SW truth value table

Audio switching

MAIN L/R output SW

Pin No	52	53
Terminal name	AOUT_SW1	AOUT_SW2
Control IC	TC4052BFT (IC502)	
USB	0	0
DVD	0	1
IPOD	1	0
BT	1	1

SUB L/R output SW

Pin No	55	56
Terminal name	AOUT_MUTE	AOUT_SW3
Control IC	TC4052BFT (IC505)	
-	0	0
DVD	1	0
iPod	1	1

Set “-” in the other unit than DVD and iPod.

Video switching (RGB)

MONITOR output SW

Pin No	68	69	64
Terminal name	RGB_SW2	RGB_SW3	RGB_MUTE
Control IC	NJM2286V IC600	NJM2286V IC601	
GRA	0	0	0
NAVI	1	0	0
DVD	-	1	0
MUTE	-	-	1

MUTE in TV, IPOD, AVIN or BCAM.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● AUDIO MICROCOMPUTER: 30624MWPB74GP (X34: IC702)

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
1	PON	O	Control of peripheral power supply		H: ON, L: OFF
2	P_CON	O	PCON control		H: EXCEPT, L: When STANDBY or POWER OFF
3	CODEC_DO	O	CODEC control (Mid)		
3	NC	O	Not used (Low)		Output is fixed to L
4	CODEC_DI	I	CODEC control (Mid)		
4	NC	O	Not used (Low)		Output is fixed to L
5	CODEC_CLK	O	CODEC control (Mid)		
5	NC	O	Not used (Low)		Output is fixed to L
6	BYTE	I	External data bus switching		Fixed to "L" since this is a single chip
7	CNVSS	I	Emulator connection		H: Program write mode, L: Normal operation
8,9	NC	O	Not used		Output is fixed to L
10	RESET	I	μCOM hard reset		H: Normal operation, L: Reset
11	XOUT	O			Oscillator 11MHz (Internally the unit operates at the frequency of 2 times of the oscillator frequency)
12	VSS	-			
13	XIN	I			Oscillator 11MHz (Internally the unit operates at the frequency of 2 times of the oscillator frequency)
14	VCC1	-			
15	NMI	I	Fixed to "H" for writing-in.		
16	R_CLK	I	RDS CLK input (K, E, M, R)		
16	NC	O	Not used (X, V)		Output is fixed to L
17	CODEC_ERROR	I	CODEC ERROR input (Mid)		
17	NC	O	Not used (Low)		Output is fixed to L
18	NC	O	Not used		Output is fixed to L
19	CODEC_CS	O	CODEC chip select (Mid)		
19	NC	O	Not used (Low)		Output is fixed to L
20	BEEP	O	Beep		Pulse output
21,22	NC	O	Not used		Output is fixed to L
23	BM_SW	O	Bass Management (Mid)		
23	NC	O	Not used (Low)		Output is fixed to L
24	AD_MUTE	O	CODEC input section MUTE (Mid)		H: MUTE OFF, L: MUTE ON
24	NC	O	Not used (Low)		Output is fixed to L
25	DSP_RST	O	DSP: Reset (Mid)		
25	NC	O	Not used (Low)		Output is fixed to L
26	DSP_SS	O	DSP chip select (Mid)		
26	NC	O	Not used (Low)		Output is fixed to L
27	TUN_SCL	O	RADIO TUNER control		
28	TUN_SDA	I/O	RADIO TUNER control		
29	EM_TX	O	Communication with emulator		
29	SAT_TX	O	Communication with SAT		
30	EM_RX	I	Communication with emulator		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
30	SAT_RX	I	Communication with SAT		
31	EM_CLK	I	Communication with emulator		
32	BUSY	O	Output of BUSY signal during writing-in		
33	SYS_SDATA	O	Communication between μ -coms		
34	SYS_MDATA	I	Communication between μ -coms		
35	SYS_MCLK	I	Communication between μ -coms		
36	SYS_SREQ	O	Communication between μ -coms		
37	SYS_MREQ	I	Communication between μ -coms		
38	NC	O	Not used		Output is fixed to L
39	EPM	I	Emulator connection		Logic is fixed by pull down
40	SIR_DET	I	Detection of SIRIUS (13P \leftrightarrow 8P conversion cable) connection		H: Connected, L: Not connected
41	SIR_PON	O	SW14 control (K, R)		H: ON, L: OFF
42	SAT_RST	O	SAT RESET (K,R)		
43	SAT_CON	O	Communication with SAT (K, R)		
44	CE	I	Emulator connection		Logic is fixed by pull up.
45	SEL_SCL	O	ASEL control		I2C CLK
46	SEL_SDA	I/O	ASEL control		I2C DATA
47	V_DET	I	Video signal detection		
48	AV_PDN	O	ASEL control RESET		
49	NC	O	Not used		Output is fixed to L
50	AVOUT_SEL	O	AVOUT SEL control (Not used)		Not used. Output is fixed to L
51	NC	O	Not used		Output is fixed to L
52	NC	O	Not used		Output is fixed to L
53	TUN_IFC	I	RADIO TUNER control		H: Station found, L: Station not found
54	R_AFS_H	O	RADIO TUNER control		
55	AM+B	O	RADIO TUNER control		H: AM, L: EXCEPT
56	R_DATA	I	RDS control (K, E, M, R)		
56	NC	O	Not used (X, V)		Output is fixed to L
57	R_QUAL	I	RDS control (K, E, M, R)		
57	NC	O	Not used (X, V)		Output is fixed to L
58	PRE_MUTEF	O	F pre-out mute		H: MUTE OFF, L: MUTE ON
59	PRE_MUTER	O	R pre-out mute		Not used. Output is fixed to L
60	VCC2	-			
61	PRE_MUTESW	O	SW pre-out mute		H: MUTE OFF, L: MUTE ON
62	VSS	-			
63	AUDIO_MUTE0	O	EVOL rear stage mute		H: MUTE OFF, L: MUTE ON
64	AUDIO_MUTE1	O	EVOL rear stage mute		H: MUTE OFF, L: MUTE ON
65	AUDIO_MUTE2	O	EVOL rear stage mute		H: MUTE OFF, L: MUTE ON
66	AUDIO_MUTEA	O	EVOL front stage mute (Not used)		Not used. Output is fixed to L
67	AUDIO_MUTEB	O	EVOL front stage mute		H: MUTE OFF, L: MUTE ON
68	AUDIO_MUTEC	O	EVOL front stage mute		H: MUTE OFF, L: MUTE ON

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
69	E2P_SCL	O	E2P control		I2C CLK
69	AUD_SCL	O	EVOL control		I2C CLK
70	E2P_SDA	I/O	E2P control		I2C DATA
70	AUD_SDA	I/O	EVOL control		I2C DATA
71	A_WRT_E2P	I	E2P writing-in control		H: E2PROM writing-in, L: EXCEPT
72	SYS_ON	I	Start request from system μ -com		
73	BU_DET	I	Reduced voltage detection		H: Reduced voltage, L: Normal
74	RELAY_SW1	O	Relay 1 control		H: Relay ON, L: Relay OFF
75	RELAY_SW2	O	Relay 2 control		H: Relay ON, L: Relay OFF
76	RELAY_DET1	I	Relay 1 output error detection (Short, Over current)		When "RELAY_SW1" is "Hi", L: Normal, H: Error ("Hi" when SW1 is Low)
77	RELAY_DET2	I	Relay 2 output error detection (Short, Over current)		When "RELAY_SW2" is "Hi", L: Normal, H: Error ("Hi" when SW2 is Low)
78	REV_DET	I	Reverse detection		H: Reverse OFF, L: Reverse ON
79	PAK_DET	I	Parking detection		H: Parking ON, L: Parking OFF
80	ILL_DET	I	Illumi detection		H: Illumi OFF, L: Illumi ON
81	A_REMO	O	Remote controller input for Matsuda		Not used. Output is fixed to L
82	ANT_CON	O	ANT CON control		H: ANT UP, L: ANT DOWN
83	EXT_CON	O	EXT CON control		H: OFF, L: ON
84	PWIC_STBY	O	PWIC control		H: POWER ON, L: POWER OFF
85	PWIC_MUTE	O	PWIC mute		H: MUTE OFF, L: MUTE ON
86	RIP_MUTE	O	PWIC power supply control (Mid)		H: MUTE OFF, L: MUTE ON
86	NC	O	Not used (Low)		Output is fixed to L
87	A_TYPE3	I	Destination setting	①	
88	A_TYPE2	I	Destination setting	①	
89	A_TYPE1	I	Destination setting	①	
90	A_TYPE0	I	Destination setting (K, E, M, X)	①	
91	R_NOISE	I	RADIO TUNER control		Noise input
92	TUN_SMET	I	RADIO TUNER control		S meter input
93	LINE_MUTE	I	LINE MUTE input detection		Normal: 1.6V, TEL MUTE: 1V or less, NAVI MUTE: 2.5V or more
94	AVSS	-			
95	PWIC_DCDET	I	Detection of SP output DC offset		H: Normal, L: Offset detection
96	VREF	-			
97	AVCC	-			
98	DSP_SI	I	DSP control (Mid)		
98	NC	O	Not used (Low)		Output is fixed to L
99	DSP_SO	O	DSP control (Mid)		
99	NC	O	Not used (Low)		Output is fixed to L
100	DSP_SCL	O	DSP control (Mid)		
100	NC	O	Not used (Low)		Output is fixed to L

MICROCOMPUTER’S TERMINAL DESCRIPTION

Truth value table

① Destination setting

MODEL	Category	Destina- tion	TYPE3	TYPE2	TYPE1	TYPE0
Low	DDX	K	0	0	1	*
		-	-	-	-	-
		M/M2	0	0	1	*
		V/X	0	0	1	*
		R	0	0	1	*
	DNX	K	0	1	1	*
		E	0	1	1	*
		M	0	1	1	*
		X	0	1	1	*
		-	-	-	-	-
Mid	DDX	K	1	0	1	*
		E/E2	1	0	1	*
		M/M2	1	0	1	*
		X	1	0	1	*
		R	1	0	1	*
	DNX	K	1	1	1	*
		E	1	1	1	*
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-

TYPE0 is AD input.
Refer to the next table (TYPE0 Setup Voltage) for “*”.

TYPE0 Setup Voltage (Power supply voltage = 5)

Destination	Settings for μ-com			Actual pull down resistance (kΩ)	Actual pull up re- sistance (kΩ)
	min	Mid point voltage	max		
K	0.00	0.00	0.62	10	None
E/E2	0.63	1.25	1.87	3.3	10
M/M2	1.88	2.50	3.12	10	10
V/X	3.13	3.75	4.37	30	10
R	4.38		5.00	None	10

● MEDIA MICROPROCESSOR: EP9307IRZ (X88: IC106)

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
A1	#CS1	I	Watchdog startup	①	
A2	#CS7	I	BOOT bus width select	②	
A3	SDCLKEN	O	SDRAM clock enable		
A4	DA31	I/O	Data bus		
A5	DA29	I/O	Data bus		
A6	DA27	I/O	Data bus		
A7	NC				
A8	#RD	O	Memory read		
A9	MIIRXD3	I	(ETHER I/F for design)		
A10	RXDVAL	I	(ETHER I/F for design)		
A11	MIITXD1	O	(ETHER I/F for design)		
A12	CRS	I	(ETHER I/F for design)		
A13	NC				

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
A14	IPOD_POW (NC)	O	Authentication chip power supply control (Not used)		
A15	#WAIT	I	WAIT input (Not used)		
A16	USB2_NEG	I/O	USB2 data (Not used)		
A17	NC	I			
B1	AD25	O	Address bus		
B2	#CS2	I	Watchdog startup	①	
B2	#CS2	O	SRAM chip select		
B3	#CS6	I	BOOT bus width select	②	
B3	#CS6	O	Nor Flash chip select		
B4	AD20	O	Address bus		
B5	DA30	I/O	Data bus		
B6	AD18	O	Address bus		
B7	EP_STBY	O	Permission to turn OFF the mother power supply		
B8	AD17	O	Address bus		
B9	RXCLK	I	(ETHER I/F for design)		
B10	MIIRXD1	I	(ETHER I/F for design)		
B11	MIITXD2	O	(ETHER I/F for design)		
B12	TXEN	O	(ETHER I/F for design)		
B13,14	NC				
B15	USB2_POS	I/O	USB2 data (Not used)		
B16	DA_MCLK	O	AUDIO DAC Master clock		I2S
B17	3.3V				
C1	AD23	O	Address bus		
C2	DA26	I/O	Data bus		
C3	#CS3	O	SRAM chip select		
C4	DA25	I/O	Data bus		
C5	AD24	O	Address bus		
C6	AD19	O	Address bus		
C7	EP_SREQ	O	EP9307 communication request		
C8	#WR	O	Memory write		
C9	MDIO	I/O	(ETHER I/F for design)		
C10	MIIRXD2	I	(ETHER I/F for design)		
C11	TXCLK	I	(ETHER I/F for design)		
C12	MIITXD0	O	(ETHER I/F for design)		
C13	CLD	I	(ETHER I/F for design)		
C14	NC				
C15	TRSTN	I	(JTAG I/F for design)		
C16,17	NC				
D1	#SDCS3	O	SDRAM chip select		
D2	DA23	I/O	Data bus		
D3	SDCLK	O	SDRAM clock		Commercial product: 100MHz Thermal expansion product: 92MHz
D4	DA24	I/O	Data bus		
D5	NC				

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
D6	EP_MREQ	I	SysCom communication request		
D7	DA28	I/O	Data bus		
D8	#EP_INI	I	Reset start notification		
D9	AD16	O	Address bus		
D10	MDC	O	(ETHER I/F for design)		
D11	RXERR	I	(ETHER I/F for design)		
D12	MIITXD3	O	(ETHER I/F for design)		
D13	IPOD_BSY	I	iPod READY/BUSY		L: BUSY, H: READY
D14	LOW_#MID	I	Setup of destination		H: LOW model, L: MID model
D15	BT_RESET	O	BT reset		
D16,17	NC				
E1	#SDCS2	O	SDRAM chip select		
E2	#SDWE	O	SDRAM write enable		
E3	DA22	I/O	Data bus		
E4	AD3	O	Address bus		
E5	DA15	I/O	Data bus		
E6	AD21	O	Address bus		
E7	DA17	I/O	Data bus		
E8-10	VDD R				
E11	MIIRXD0	I	(ETHER I/F for design)		
E12	TXERR	O	(ETHER I/F for design)		
E13	EP_CON	I	Permission to operate PE9307		
E14	USB1_ERR	I	5V over current detection in USB1		L: Over current is detected.
E15	USB1_EN	O	Control of USB1 5V over current detection IC		L: USB5V OFF, H: USB5V ON
E16,17	NC				
F1	#RAS	O	SDRAM RAS		
F2	#SDCS1	O	SDRAM chip select		
F3	#SDCS0	O	SDRAM chip select		
F4	#DQM3	O	Memory data mask		
F5	AD5	O	Address bus		
F6-8	GND R				
F9,10	VDD C				
F11	GND R				
F12	EP_BUDET	I	Momentary power down notification		L: Normal operation H: Momentary power down detection
F13	NC				
F14	ADC_GND				
F15	IPOD_RESET (NC)	O	Authentication chip reset control (Not used)		
F16,17	NC				
G1	#DQM0	O	Memory data mask		
G2	#CAS	O	SDRAM CAS		
G3	DA21	I/O	Data bus		
G4	AD22	O	Address bus		
G5	VDD R				

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
G6,12	GND R				
G13	USB0_ERR	I	5V over current detection in USB0		L: Over current is detected.
G14					L: Over current is detected.
G15,16	NC				
G17	SUB_CLK	I	Sub clock input		
H1	DA18	I/O	Data bus		
H2	DA20	I/O	Data bus		
H3	DA19	I/O	Data bus		
H4	DA16	I/O	Data bus		
H5	VDD R				
H6	VDD C				
H8,9	GND C				
H10	GND C				
H12	GND R				
H13	VDD R				
H14	USB0_EN	O	Control of USB0 5V over current detection IC		L: USB5V OFF, H: USB5V ON
H15	#EP_RST0	I	Power on reset		
H16	NC				
H17	#RESET	I	User reset (Not used)		
J1	AD6	O	Address bus		
J2	DA14	I/O	Data bus		
J3	AD7	O	Address bus		
J4	DA13	I/O	Data bus		
J5	VDD R				
J6	VDD C				
J8,10	GND C				
J12	VDD C				
J13	VDD R				
J14,15	NC				
J16	#CS0	O	Nor Flash chip select		
J17	NC				
K1	AD4	O	Address bus		
K2	DA12	I/O	Data bus		
K3	DA10	I/O	Data bus		
K4	DA11	I/O	Data bus		
K5	VDD R				
K6	GND R				
K8-10	GND C				
K12	VDD C				
K13	NC				
K14	PLL_VDD		Main oscillator power supply 1.8V		
K15~17	NC				
L1	DA9	I/O	Data bus		
L2	AD2	O	Address bus		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
L3	AD1	O	Address bus		
L4	DA8	I/O	Data bus		
L5	NC				
L6,12	GND R				
L13,14	NC				
L15	PLL_GND		Main oscillator GND		
L16	XTALI		Main clock		14.7456MHz
L17	XTALO		Main clock		14.7456MHz
M1	NC				
M2	AD0	O	Address bus		
M3	#DQM1	O	Memory data mask		
M4	#DQM2	O	Memory data mask		
M5	E_R5	O	Video data bus (Red)		
M6,7	GND R				
M8,9	VDD C				
M10,11	GND R				
M12~17	NC				
N1	E_R2	O	Video data bus (Red)		
N2	E_R4	O	Video data bus (Red)		
N3	E_R3	O	Video data bus (Red)		
N4	E_R1	O	Video data bus (Red)		
N5	E_R0	O	Video data bus (Red)		
N6	DA5	I/O	Data bus		
N7~10	VDD R				
N11	I2C_SCL	O	Communication clock (I2C)		
N11	I2C_SCL	I	BOOT mode		L: External BOOT, H: Internal BOOT
N12	DA_SDO0	O	AUDIO DAC data		I2S
N12	DA_SDO0	I	BOOT bus width select	②	
N13	CTS	I	(UART I/F for design)		
N14	RDX0	I	(UART I/F for design)		
N15	TXD0	O	(UART I/F for design)		
N16	EPO_BTI	O	EP9307→BT communication data		
N17	UART_TXD2	O	EP9307 communication data		
P1	SPCLK	O	Video dot clock		
P2	E_G4	O	Video data bus (Green)		
P3	E_G5	O	Video data bus (Green)		
P4	E_B3	O	Video data bus (Blue)		
P5	AD15	O	Address bus		
P6	AD13	O	Address bus		
P7	AD12	O	Address bus		
P8	DA2	I/O	Data bus		
P9	AD8	O	Address bus		
P10	TCK	I	(JTAG I/F for design)		
P11	BOOT1	I	Test mode select	③	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
P12	I2C_SDA	I/O	Communication data (I2C)		
P12	I2C_SDA	I	Test mode select	③	
P13	G_LED	O	Green LED		
P14	R_LED	O	Red LED		
P15	NC				
P16	EPI_BTO	I	BT→EP9307 communication data		
P17	UART_RDY2	I	SysCom communication data		
R1	E_G3	O	Video data bus (Green)		
R2	E_HSYNC	O	Video H-SYNC		
R3	E_G0	O	Video data bus (Green)		
R4	E_B5	O	Video data bus (Blue)		
R5	E_B0	O	Video data bus (Blue)		
R6	AD14	O	Address bus		
R7	DA4	I/O	Data bus		
R8	DA1	I/O	Data bus		
R9	NC				
R10	TDI	I	(JTAG I/F for design)		
R11	BOOT0	I	Test mode select	③	
R12	DA_LRCLK	O	AUDIO DAC Sample rate clock		I2S
R13,14	NC				
R15	USB0_NEG	I/O	USB0 data		
R16	DA_SCLK	O	AUDIO DAC Data bit clock		I2S
R17	USB0_POS	I/O	USB0 data		
T1,2	NC				
T3	E_VSYNC	O	Video V-SYNC		
T4	E_G1	O	Video data bus (Green)		
T5	E_B2	O	Video data bus (Blue)		
T6	DA7	I/O	Data bus		
T7	AD11	O	Address bus		
T8	AD9	O	Address bus		
T9	NC				
T10	TMS	I	(JTAG I/F for design)		
T11	GND R				
T12	NC				
T13	INT2	I	(ETHER I/F for design)		
T14	NC				
T15	USB1_POS	I/O	USB1 data		
T16,17	NC				
U3	E_G2	O	Video data bus (Green)		
U4	E_B4	O	Video data bus (Blue)		
U5	E_B1	O	Video data bus (Blue)		
U6	DA6	I/O	Data bus		
U7	DA3	I/O	Data bus		
U8	AD10	O	Address bus		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	True Value Table	Processing Operation Description
U9	DA0	I/O	Data bus		
U10	TDO	O	(JTAG I/F for design)		
U11	NC				
U12-14	NC				
U15	RTS	O	(UART I/F for design)		
U16	USB1_NEG	I/O	USB1 data		
U17	NC				

Truth value table

① Watch dog startup

#CS1	#CS2	
0	0	Watch dog disabled, Disabled during resetting (Setting in this unit)
0	1	Watch dog disabled, Enabled during resetting
1	0	Watch dog enabled, Disabled during resetting
1	1	Watch dog enabled, Enabled during resetting

② Selection of BOOT bus width and memory

#CS7	#CS6	DA_SDO0	
0	0	0	8bit ROM
0	1	0	16bit ROM (Setting in this unit)
1	0	0	32bit ROM
1	1	0	32bit ROM
0	0	1	16bit SFLASH
0	1	1	16bit SROM
1	0	1	32bit SFLASH
1	1	1	32bit SROM

③ Test mode selection

I2C_SDA	BOOT1	BOOT0	
1	0	0	Normal BOOT (Setting in this unit)
1	0	1	Serial BOOT
1	1	0	FUNCTIONAL TEST
1	1	1	TIC TEST-HTST_TIC
0	0	0	PARAMETRIC TEST
0	0	1	SCAN_TEST-HTST_SCAN
0	1	0	Reserved
0	1	1	Reserved

TEST MODE

This Test mode is applicable to models that are listed in Table 1.

Class	Series	Model Name	Destination
MID	DNX	DNX8120	K
		DNX8220BT	E
	DDX	DDX812	K
		DDX8022BT	E
		DDX8022BTY	E2
		DDX8032BT	M/X/R
LOW	DNX	DNX7120	K
		DNX7220	E
		DNX7320CN	V
	DDX	DDX712	K
		DDX7032	M/X/V/R

Table 1 List of Model Names

1. Overview

The succeeding sections describe the display specifications, control specification of key/remote controller, operations of components, etc. in the Test mode of this unit.

2. Operations

The system can be transferred to the Test mode with the following two approaches:

- ① While pressing [SRC] and [ATT] keys at the same time (SRC+ATT), press [Reset] key to start the system.
- ② In the standby source, enter “2 → ►►I → 3” from the remote controller (SW: AUD).

Turn the system OFF in 30 minutes when it is started in the Test mode.

3. Screen transition

The system is started with the Test Mode Main screen when it is started in the Test mode. When the system is transferred to the Test mode using the remote controller, it transfers to the Test Mode Main screen.

A variety of screens that can be transferred from the Test Mode Main screen is shown in Figure 2.

Refer to Section 3 for the functions in each screen.

4. Specification of screens

This section describes the Test mode functions available in each screen.

4.1. Test Mode Main screen

This section describes the keys that can be used to transfer to each screen.

Contents of the display shown in the Test Mode Main screen are described in Figure 4.1.

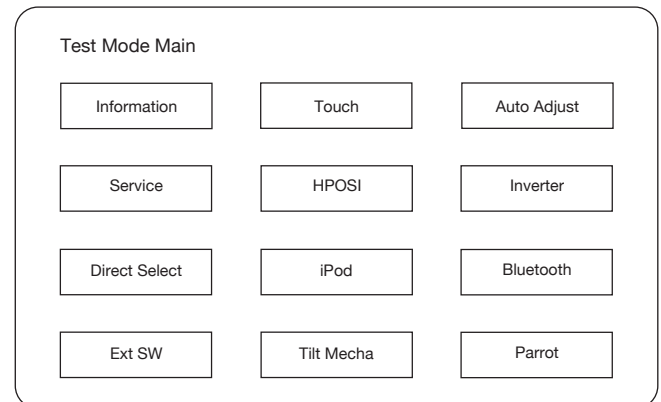


Figure 4.1 Test Mode Main screen

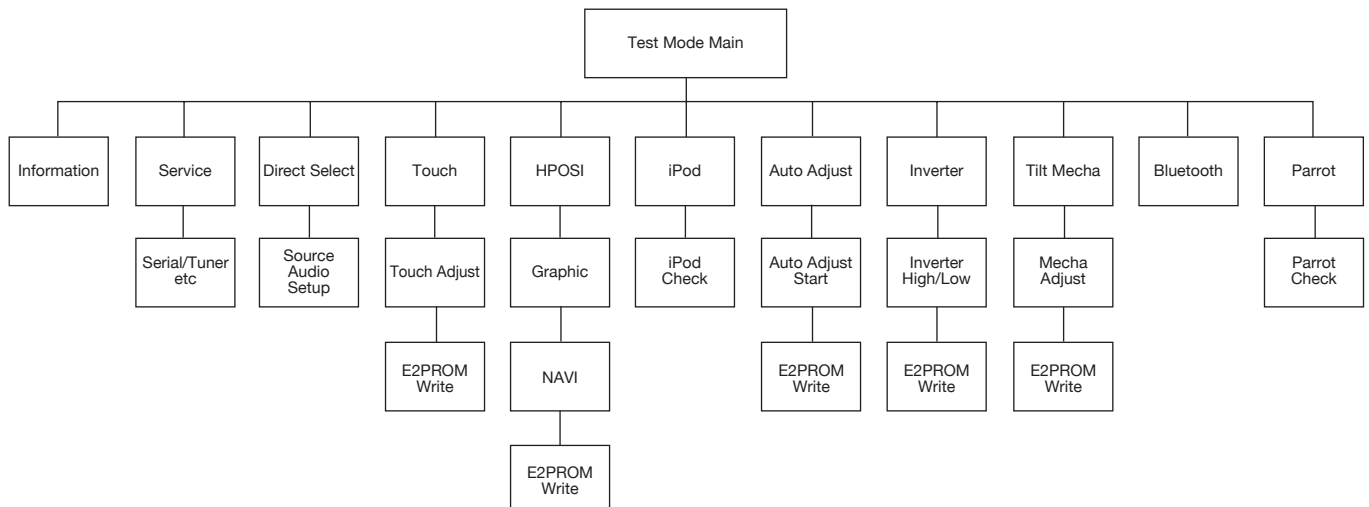


Figure 2 Screen transition

TEST MODE

Key Specification

Information	: Transfer to Information screen.
Service	: Transfer to Service screen.
Direct Select	: Transfer to Direct Select screen.
Ext SW	: Output Ext-SW waveform ("400ms ON/OFF" by the operations, SW1 → SW2).
Touch	: Transfer to Touch Adjust screen.
HPOSI	: Transfer to HPOSI Adjustment screen.
iPod	: Transfer to iPod Authentication Chip Confirmation screen.
Tilt Mecha	: Transfer to Tilt Mecha Position Adjustment screen.
Auto Adjust	: Transfer to Auto Adjust screen.
Inverter	: Transfer to Inverter Confirmation screen.
Bluetooth	: Transfer to Bluetooth Confirmation screen (only in Mid model). This key turns red after the completion of Flash memory initialization in Bluetooth Module.
Parrot	: Transfer to Parrot Confirmation screen (only in Mid model).

4.2. Information screen

This screen is to display such information as version number and other conditions.

The contents displayed on the Information screen are shown in Figure 4.2.

Figure 4.2 Information screen

- The “Low/Mid” and “DDX/DNX” that are attached in front of System μ-com/Audio μ-com indicates that the destination information of the board on which System μ-com/Audio μ-com are installed.
- Version information of BT Module is limited to Mid model.

Key Specification

Return	: Transfer to Test Mode Main screen
--------	-------------------------------------

4.3. Service screen

This screen shows a variety of service information. Pressing each [Clear] key clears the data saved in the nonvolatile memory.

The contents displayed on the Service screen are shown in Figure 4.3.

Figure 4.3 Service screen

Key Specification

Serial	: Transfer to the Serial No. Entry screen.
DVD Service Info	: Select the DVD video and display the DVD service information.
Tuner Mute Level	: Transfer to Tuner Mute Level Adjustment screen
DVD DivX Registration Code Clear	: Clear DVD DivX Registration Code.
DC Offset Clear	: Clear DC Offset information in the non-volatile memory.
Init	: Select the item to be initialized.
■Start	: Pressing this key for one second or longer initializes the information of the item selected by [Init] key.
Return	: Transfer to Test Mode Main screen

• DVD Service Info

Select the DVD video and display the DVD service information that is created by DVD mechanism.

Use the [DISP] key or CURSOR (right or left) on the remote controller to feed pages.

Press the [FNC] key to return from the DVD video to the Service screen.

* Refer to the DVS-8500 system service documents for the details of DVD Service Info screen.

Once the system transfers to DVD video screen selected at DVD Service Info, OSD will not be displayed in the DVD video screen. Restart the set (system) to display OSD in DVD video screen.

TEST MODE

- DVD DivX Registration Code

Display DivX Registration Code, and clear the Code with [Clear] key.

After the clearing of the Code, display “None”.

* Clear the Code after ejecting the DISC.

- DC Offset

When the DC Offset detection information is shown as “None”, it means that the offset is not detected. When it is shown as “Detect (x)”, it means that the offset is detected.

X=1~3 : The number of capacitor leak detected.

Clear the detection information using the [Clear] key.

- Service Information

Display Power On time and the number of Monitor Open.

Select the item to be initialized by pressing the [Init] key of that item. (Multiple items can be selected, and the selected items are highlighted.)

After selecting the item that shall be initialized, press the [Start] key for 1 second or longer to initialize the displayed service information.

4.4. Serial No. Entry screen

Enter the serial code of each set from this screen.

The Serial No. Entry screen is shown in Figure 4.4.

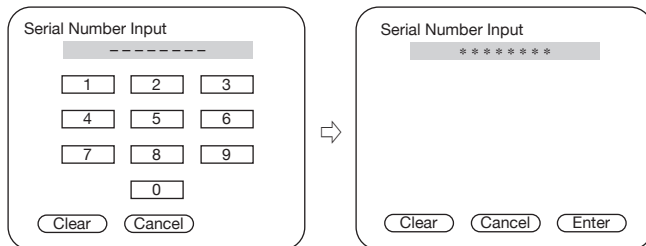


Figure 4.4 Serial No. Entry screen

Key Specification

0~9 : 10key used to enter the serial code.

Clear : Clear the serial code. being input.

Cancel: Transfer to Service screen

Enter : Start entering the serial code.

(When the entry is successfully completed, the “Write OK” is shown. When the entry is not successfully completed, the “Write NG” is shown)

When the “Write OK” is shown, use this key to transfer to the Service screen.

If the “Write NG” is shown, transfer to the Test mode again and repeat the entry from the first step.

4.5. Tuner Mute Level Adjust screen

Adjust the Mute Level stored in the E2PROM of the Tuner F/E.

The Tuner Mute Level Adjust screen is shown in Figure 4.5.

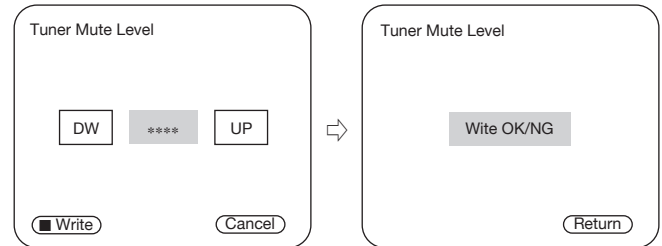


Figure 4.5 Tuner Mute Level Adjust screen

Key Specification

UP : Mute Level Up

DW : Mute Level Down

■Write : Press this key for 1 seconds or longer to make the data writing into the nonvolatile memory.

Cancel : Transfer to Service screen.

Return : Transfer to Service screen.

* Adjust the Tuner Mute Level under the following conditions. Under the other conditions than the followings, the Tuner Mute Level cannot be adjusted if the Tuner Mute Level Setup screen is shown.

The frequency shall have to be set before transferring to the TUNER MUTE LEVEL ADJUST screen.

Audio Source : Tuner

LOUD : OFF

Volume : Step30

Frequency : Default value of the set

Note that the frequency remains unchanged after exiting from the Setup screen at the completion of the setup.

4.6. Direct Select screen

Pressing the [Direct Select] key on the Test Mode Main screen allows the screen to transfer to the normal GUI screen.

This time, the system transfers to the Source Direct Select screen, on which nine [Source] keys are displayed.

4.7. Touch Adjust screen

Fine-tune the variations of touch feeling in of each set.

Touch 4 markers one by one, and the adjustment is completed when the “Write OK” is shown on the screen.

If the “Write NG” is shown, transfer to the Test mode again to re-start the adjustment from the first step.

The Touch Adjust screen is shown in Figure 4.7.

TEST MODE

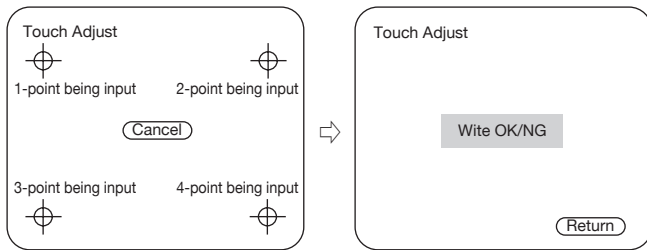


Figure 4.7 Touch Adjust screen

Key Specification

Cancel: When the Cancel button is pressed while entering the 1st point, the system transfers to the Test Mode Main screen.

When the Cancel button is pressed while entering the other point than the 2nd point, the system transfers to the status to enter the 1st point.

Return : Transfer to Test Mode Main screen

4.8. HPOSI Adjust screen

Adjust horizontal position of each screen.

The screen shall be transferred like; “Graphic→NAVI”.

Graphic and NAVI of DNX are used in the adjustment of Dot FREQ/Dot Phase. The HPOSI Adjust screen is shown in Figure 4.8.

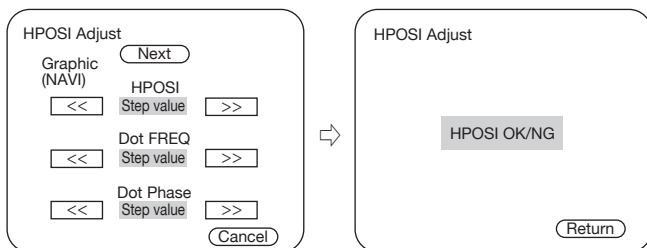


Figure 4.8 HPOSI Adjust screen

Key Specification

Next : Transfer to the next HPOSI Adjustment screen.

When the screen is the NAVI screen, start writing in the nonvolatile memory.

<< : Screen toward the left.

>> : Screen toward the right.

Cancel: Transfer to Test Mode Main screen

Return : Transfer to Test Mode Main screen

If the “HPOSI NG” is displayed (i.e., in case of failure in writing data in the nonvolatile memory), re-enter in the Test Mode again to start over the adjustment.

4.9. iPod Authentication Chip Confirmation screen

Check communication for iPod authentication.

The iPod Authentication Chip Confirmation screen is displayed in Figure 4.9.

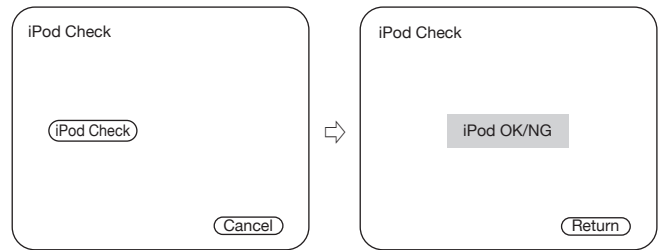


Figure 4.9 iPod Authentication Chip Confirmation screen

Key Specification

iPod Check : Start checking communication for iPod authentication.

Cancel, Return : Transfer to Test Mode Main screen

4.10. Auto Adjust screen

Carry out the automatic adjustment of Chroma / Mstar.

The contents displayed on the Auto Adjust screen are shown in Figure 4.10.

Note: Refer to the hardware service documents for the equipment to connect to the set.

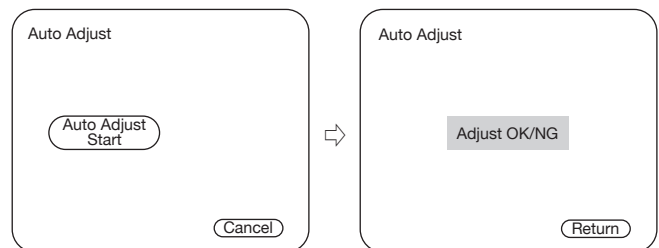


Figure 4.10 Auto Adjust screen

Key Specification

Auto Adjust Start: Start automatic adjustment.

Cancel, Return : Transfer to Test Mode Main screen

4.11. Inverter Confirmation screen

Change the inverter frequency.

The Inverter Confirmation screen is displayed in Figure 4.11.

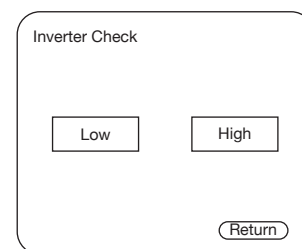


Figure 4.11 Inverter Confirmation screen

Key Specification

Low : Set the inverter frequency at Low level.

High : Set the inverter frequency at High level.

Return : Transfer to Test Mode Main screen

TEST MODE

4.12. Tilt Mecha Position Adjust screen

Adjust the panel mechanism position from this screen.
The Tilt Mecha Position Adjust screen is displayed in Figure 4.12.

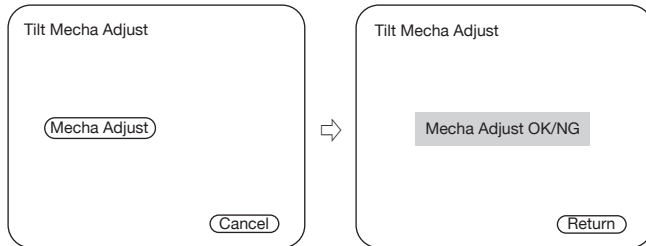


Figure 4.12 Tilt Mecha Position Adjust screen

Key Specification

- Mecha Adjust : Start adjusting the mechanism position.
- Cancel : Transfer to Test Mode Main screen.
- Return : Transfer to Test Mode Main screen.

If the “Mecha Adjust NG” is displayed (i.e., in case of failure in writing data in the nonvolatile memory), re-enter in the Test Mode again to start over the adjustment.

The “NG” is displayed when the status is in any one of the following conditions: (When the “NG” is displayed, no data is written in the nonvolatile memory.)

- Failure in writing data in nonvolatile memory
- When the voltage acquired is 0.177V or higher in the Open condition
- When the voltage acquired is lower than 2.746V or it is higher than 2.888V in the Close condition

Note: In case of “NG”, check if the mechanism position adjustment jig is properly installed or not, and then transfer to the Test mode again to start over the adjustment.

4.13. Bluetooth Confirmation screen (only in Mid model)

Perform LOOPBAK test with the other Bluetooth device in the line.

The Bluetooth Confirmation screen is displayed in Figure 4.13.

- Detect other Bluetooth devices in the line with [Search] key (The detected devices are listed in the screen).
- Select one device that is used as a counterpart of the LOOPBACK test from the device list displayed on the screen. (The selected device is highlighted with the different color from others.)

- Start the LOOPBACK test when “Complete” is displayed in the stats display area.
- After the completion of the LOOPBACK test, press [Clear] key to initialize the flash memory and to set “0000” in PIN Code. The “OK” indicates the completion of the test. “NG” indicates that you have to enter in the Test mode again to start over the test.
- After the completion of the initialization, [Device Name] key is inactive and invalid. Return to the Test Mode Main screen again if the re-adjustment is needed.

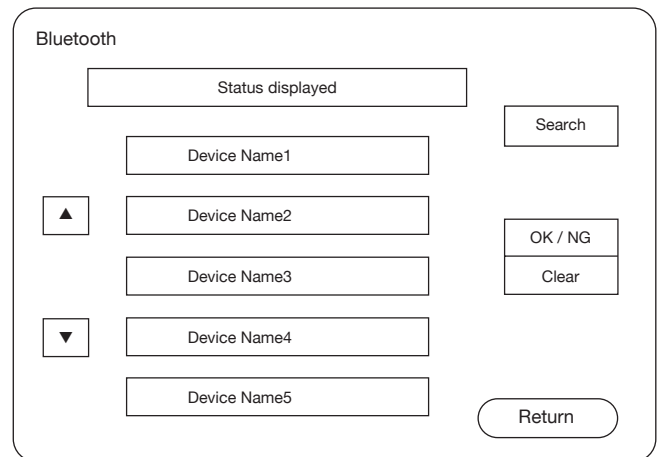


Figure 4.13 Bluetooth Confirmation screen

Key Specification

- Search : Search Bluetooth device.
- ▲ ▼ : Use this key to scroll the device list when there are more than 5 devices found.
- Device Name : Connect to the selected device (and then start the LOOPBACK test after the completion of the connection).
- Clear : Initialize the flash memory and to set “0000” in PIN Code.
- Return : Transfer to the Test Mode Main screen.

Status display specification

- Searching : Indicate the status in which Bluetooth devices are being searched.
- Complete : Indicate the status that is ready to start the LOOPBACK test after the completion of the connection with the device.
- Connect NG : If the connection with the device is failed, select a device again and try to make the connection with it.

4.14. Parrot Check screen (only in Mid model)

The Parrot check screen is displayed in Figure 4.14.

TEST MODE

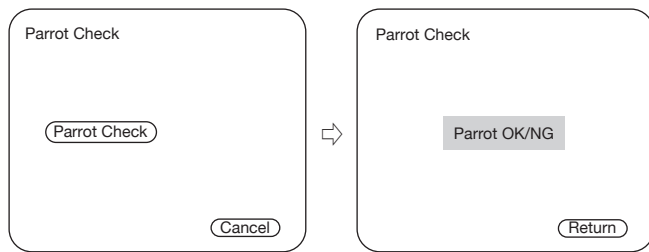


Figure 4.14 Parrot Check screen

Key Specification

- Parrot Check : Start Parrot check.
 Cancel : Transfer to Test Mode Main screen.
 Return : Transfer to Test Mode Main screen.

5. Functional specification

This section describes the test mode specification in each function.

5.1. Display

In the Test mode, the display is exclusively used for the test but screens for Source Control, Audio Control and Setup are same as those that are normally used.

The system shows the touch position (+). However, it is not shown in the Touch Adjust screen (under adjustment).

5.2. Key

The hard key specification is listed in Table 5.2. (Note that the keys that are not listed in the table have conventional functions.)

Key	Function
ATT	Motor driver

Table 5.2 Hard key

Mode Description	Setting
Test Mode	SRC+ATT+Reset
Span switching	SRC + VOL.DW + Reset
DC Offset/Service/Memory Other Clear	SRC+FNC+Reset
Retailer mode: ON	EJECT + VOL.DW + Reset
Retailer mode: OFF	SRC+Reset
RDS test drive mode	EJECT+ATT+Reset
Opening screen re-write mode	EJECT + FNC + Reset

(Reference) Specification for Key Function when multiple keys are pressed

5.3. Remote controller

The remote controller key specification is listed in Table 5.3. (Note that the keys that are not listed in the table have conventional functions.)

The mode of the remote controller shall be "AUDIO".

Key	Function
FM	DVD video mode
AM	DVD audio mode
Tenkey0	Flicker Adjustment
Tenkey1	Tilt mechanism position adjustment
Tenkey2	DC Offset check
Tenkey3	V-IN (R-CAM) mirror mode switching
Tenkey5	Forced NAVI audio interruption
Tenkey6	Screen adjustment screen callout

Table 5.3 Remote Controller key

5.4. Video Control

In conjunction with the source, AV-OUT is also changed (Any AV-OUT can be accepted when the source is other than the followings).

Source: AV-IN → AV-OUT: AV-IN

Source: iPod → AV-OUT: iPod

Source: DVD → AV-OUT: DVD

Source: TV → AV-OUT: TV

Source: NAVI → AV-OUT: NAVI (DXN only)

5.5. Tuner

- When unable to access E2PROM, display Error (on the Tuner screen).
- K3I forced switching
 - Forced to Narrow by pressing and hold Preset 4: xxx. x1MHz
 - Forced to Middle by pressing and holding Preset 5: xxx. x2MHz
 - Forced to Wide by pressing and holding Preset 6: xxx. x3MHz
- Switch Span (K↔M) with [SRC] key + [Vol.DW] key + [Reset] key.
Span information is displayed on the Information screen.
- When RDS PS is "RDS_TEST" in the Tuner source, turn OFF P-CON.

5.6. TV Tuner

- In the case of destination E, the default value of TV1 shall be "Area 5 (Russia), 8ch (191.25MHz)" (when KTC-V500 is connected).
 - In the case of destination E, the default value of TV1 shall be "Area 4 (Russia), 8ch (191.25MHz)" (when KTC-V300 is connected).
- * If started up as above, even if the Test mode is cleared by ACC, Power OFF → ON, the setting values are maintained. (The default value is resumed by the Reset.)

TEST MODE

5.7. DVD

- Use CD media KTD-02A, DVD media TDV-540A/TTD-100 to play back in the order of the following sequence.
- Use “Title1-Chapter1” while Loading.
- Check CDDA (KTD-02A)
- Use “Track UP/DW” to play back in the order of sequence as shown below:
1 ↔ 9 ↔ 15 ↔ 10 ↔ 11 ↔ 12 ↔ 13 ↔ 14 ↔ 9 ↔ 1...
Track 28 is directly selected by pressing [RDM] key.
- DVD audio/video checking (TDV-540A)
Use “Chapter UP/DW” to play back in the order of sequence as shown in Tables 5.7.1 and 5.7.2.
Use FM/AM on the remote controller to change the video/audio check.

For DVD video checking.				
Title	Chapter			Audiostream
3	6	Level		Audiostream1
3	17	AM/PM noise		Audiostream1
3	8	Frequency characteristics		Audiostream1
3	12	Color measurement		Audiostream1
4	1	1kHz 0dB	PCM96k/24bit	Audiostream3
4	6	17Hz	PCM96k/24bit	Audiostream3

Table 5.7.1 DVD Video check

For DVD audio checking.				
Title	Chapter			Audiostream
4	1	1kHz 0dB	PCM96k/24bit	Audiostream3
4	6	17Hz	PCM96k/24bit	Audiostream3
4	16	44kHz	PCM96k/24bit	Audiostream3
4	2	Infinity	PCM96k/24bit	Audiostream3
4	3	L	PCM96k/24bit	Audiostream3
4	4	R	PCM96k/24bit	Audiostream3
4	1	1kHz 0dB	Dolby	Audiostream1
4	2	Infinity	Dolby	Audiostream1

Table 5.7.2 DVD Audio check

5.8. Audio

- The default setting of Volume shall be Step 30.
- In setting up BAL/FAD, the setting “MIN ↔ CENT ↔ MAX” can be made by 1 click.
- In setting up Xover, the setting “MIN ↔ MAX” can be made by 1 click.
- In setting up Tone, the setting “MIN ↔ CENT ↔ MAX” can be made by 1 click.
- The default setting of Tone (EQ) shall be Flat.
- The default setting of System Q shall be Off.

- When there is Digital Out terminal, the setting shall be such that the output is always On.
- The default setting of Line Mute shall be On.

5.9. AV-IF

- The default setting of AV-IN Interruption shall be On.
- The default setting of R-CAM Interruption shall be On.
- Normally an interruption occurs when the R-CAM is detected.
- Reverse condition shall be always On.
- The default setting of SP for NAVI interruption shall be Front ALL.
- Use Tenkey 3 on the remote controller to change V-IN mirror mode.

5.10. Screen adjustment

- By pressing Tenkey 5 on the remote control on each video screen, each video screen's Screen adjustment items are displayed.
- The default value is Center. Items can move between “Full Down ↔ Center ↔ Full Up” by 1 click.
- The default value of Bright during illumination Off shall be MAX. (The Bright shall be Center during illumination On.)

5.11. BEEP

- Beep regardless of any destination.
But do not output the BEEP during the screen transfer and iPod/USB operation. (While in Standby source, BEEP cannot be output because of PWIC restriction.)

5.12. DC Offset

- DC Offset detection status (normal/error) clear
By pressing the [DC Offset Clear] key in the Service screen, clear DC Offset detection information.
- DC Offset detection information is displayed on the Information screen/Service screen.
- In the Test mode, even if DC Offset is detected, it is not written into the nonvolatile memory.
However, the detection operation shall be carried out and when the DC Offset is detected, the Protect shall be displayed and it becomes all CH Mute operation.
- Volume setting can be changed to the following settings by pressing Tenkey 2 on the remote controller.
Source : DVD
Assigned DISC : KTD-02A
Assigned Track : 15 (20Hz, 0dB)
Assigned VOL : 26 Step

TEST MODE

5.13. Flicker adjustment

- ① Use Tenkey 0 on the remote controller to turn the Flicker adjustment On.
- ② Make the screen mode FULL, and set the monitor video to VIDEO.
- ③ Press Tenkey 0 on the remote controller during the flicker adjustment to turn the adjustment Off.
- ④ When the screen mode/monitor video has been changed to Flicker adjustment, it shall be remained as it is after the Flicker adjustment is turned Off.

5.14. Panel Mechanism

- Touch operations shall be available even when the Tilt mechanism is in the Full Open condition.

5.15. Driver for Panel Mechanism Motor

- With the condition when [ATT] key is pressed and hold, the driver port for motor shall be turned On.
- While [ATT] key is being pressed, the motor is turned On in reverse direction when the key is On for the first time and the motor is stopped when the key is Off.
- With the key is pressed On for the second time, the motor is tuned On in the normal (forward) direction, and the motor is stopped when the key is Off. Repeat the same steps in the succeeding procedure.

5.16. Clearing E2PROM contents

- Clear the E2PROM contents which should not remain in it when shipping the unit.

Clear the contents of E2PROM with "[SRC] key + [FNC] key + [Reset] key".

Clear OK: Turn off SI. (Except SI, all of the others shall be as they are in normal.)

Clear NG: Boot up normally.

The following information is cleared:

DC Offset information / Memory information / Retailer mode information / Service information

- If a jig is connected and the region is written in, the following information shall be cleared.

Serial No. / Security code / Touch correction / HPOSI correction / Mechanism position adjustment

Mstar adjustment / DC Offset information / Memory function / Retailer mode information / Service information

Note: Since the above data is cleared (un-defined) when the E2PROM has been replaced during the service, it is required to re-adjust the data in the Test mode.

5.17. Security Code writing-in

- When entering the Security Code that is defined as a pair of the serial number of the product (for other destinations than K/R), use [Security Setup] key on the Setup screen to call the Security screen.
- Only when the Security Code of E2PROM of the product for other destinations than K/R is blank, [Set] key is shown and press that key.
- In the Security Code Writing screen, run the same operation as when registering Security Code in normal mode, and press the [Enter] key to start writing.

Note: The Security Code to be entered in the above step is the set-specific code linked to the serial No.

- Writing of the code is successfully completed when "Complete" is displayed, and if "NG" is displayed, the writing the code is unsuccessfully completed.

Note: If "NG" is displayed, transfer to the Test mode again and repeat the above process from the 1st step.

5.18. Procedure to clear Security Code

- If the unit is started with the Security ON condition when the destination is K/R, use the following procedure to clear the Security Code (in the mode other than the Test Mode).

- ① When the unit is Reset or is powered on after the back-up OFF under the Security ON condition, the unit boots up from the Security Code Entry screen.

- ② Select Audio SW mode on the remote controller, and manually enter the code following the next procedure:

Step 1: Enter "K" (Press Tenkey5 twice)

Step 2: Enter "C" (Press Tenkey2 three times)

Step 3: Enter "A" (Press Tenkey2 once)

Step 4: Enter "R" (Press Tenkey7 three times)

Note: On the other remote controller than that provided as an accessory, enter "R" by pressing Tenkey7 twice.

When the entry is made improperly during the Steps 1~4, repeat the code entry from the Step 1 after entering other remote controller Key.

- ③ When the Security Code Entry screen is cleared, the Security Code clear is completed.

5.19. Other

- Do not operate the Back Up Memory function during the Test mode.

ADJUSTMENT

1. Flicker adjustment

● Condition

Video source: Video

Video: Luster white 30%~50%

BRIGHT: MAX

MODE: FULL

● Adjustment procedure

- ① Display luster white 30%~50%.
- ② Place a flicker adjustment jig to the monitor and observe the waveform with an oscilloscope.
- ③ Turn X35-494: VR200 and adjust to make the amplitude of the waveform to minimum.



Oscilloscope range: 20mV, 0.5mS

● Note

- ① In checking the screen after the adjustment, move the monitor up and down in order to confirm that the screen does not flicker. (This check is also carried out on the 07 model.)
- ② Noise due to AC200V can be observed in the flicker adjustment jig and oscilloscope and thus carefully set up the power supply and GND of the jig and oscilloscope.
* In 07 model, GND of the measurement equipment has been floated.

2. VCOM Amplitude and AGC and WB Automatic adjustments

● Adjustment Method

- ① Press Auto Adjust on the Test Mode Main screen.



- ② After the automatic adjustment, "Auto Set OK" will be shown to indicate the completion of the adjustment.

3. Adjustment of Horizontal display start position and pixel

● GRAPHIC Adjustment screen



- ① Proceed to the next Adjustment screen
- ② Screen Position Adjustment key
- ③ Display Range Adjustment key
- ④ Pixel Adjustment key
- ⑤ Return to the Menu screen
- ⑥ Screen Horizontal Position Adjustment OSD

- ① Screen position adjustment key (HPOSI): Adjustment of horizontal position from which the entire screen is displayed. (Default: 0)
- ② Display range adjustment key (DOT_FREQ): Adjustment of horizontal range in which the video is displayed. (Default: 64)
- ③ Pixel adjustment key (DOT_PHASE): Adjustment of horizontal position on which the pixel is displayed. (Default: 24)

In "DOT_PHASE" adjustment, do not set the value at 25 or larger but always set the value at lower than its default value (24).

Note: Make the adjustment in the order of sequence of the above number, ①, ②, and ③.

● Video image displayed on Adjustment screen

GRAPHIC: Special screen used only for adjustment (See below)

DNX_NAVI: Special screen used only for adjustment of GARMIN (See below)

DDX_NAVI: Input KNA-DV3200 or KNA-G520.

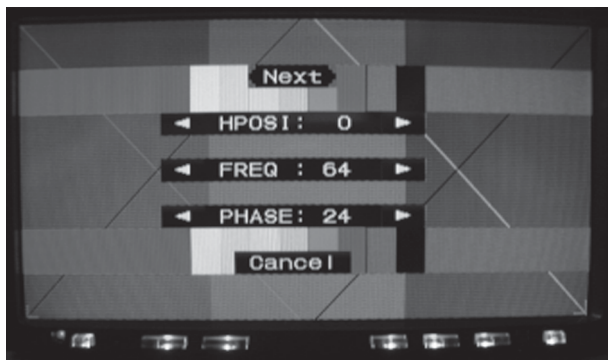
Note: Different adjustment screen is shown depending on what type (model) of NAVI is connected.

ADJUSTMENT

• DNX_NAVI Adjustment screen

Procedure to display NAVI Adjustment screen

- ① Start the set.
- ② Connect special jig on MINI_USB of NAVI.



NG



● Adjustment Procedure

- ① Press HPOSI on the Test Mode Main screen.

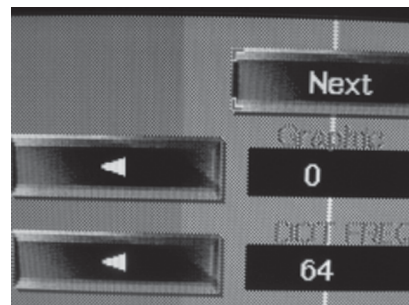


- Display Range Adjustment: DOT FREQ
Adjust the Display Range Adjustment key so that there is no vertical black stripes (blur) on the screen.

OK



Enlarge OK



NG



- ② Adjust 2 types of the display; Graphic and NAVI.

②-1: Graphic

- Screen Position Adjustment: GRAPHIC

Adjust the Screen Position Adjustment key so that the screen becomes horizontally symmetrical.

OK



ADJUSTMENT

Enlarge NG



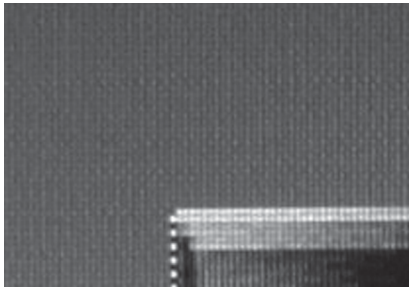
- Pixel Adjustment: DOT PHASE

Adjust the Pixel Adjustment key so that the screen becomes gray.

OK



Enlarge OK



NG



Enlarge NG

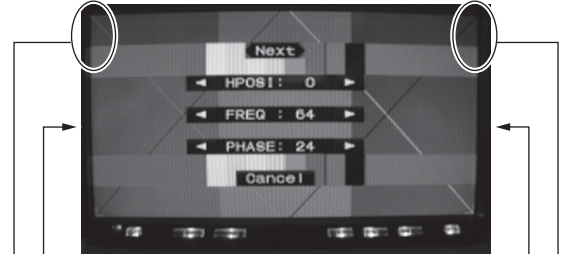


②-2-1: DNX_NAVI

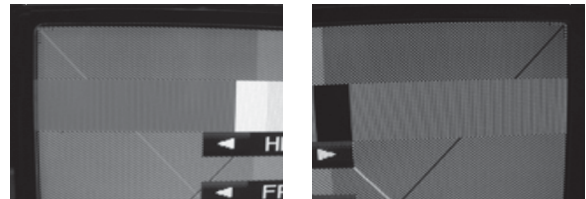
- Screen Position Adjustment: HPOSI

Adjust the Screen Adjustment key so that the NAVI screen becomes horizontally symmetrical.

OK

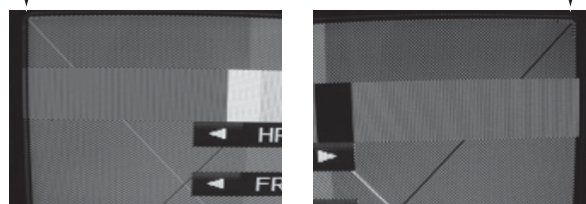


Adjust the key so that the width of the left gap is same as that of right gap.



Enlarge OK

NG

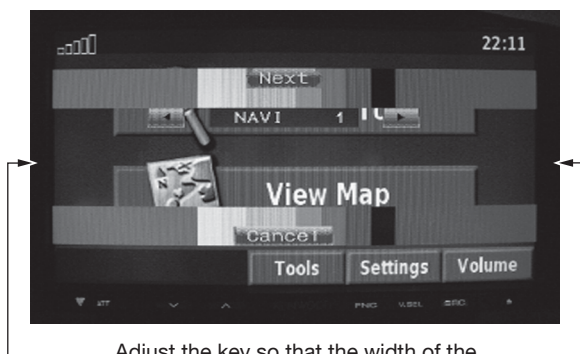


Enlarge NG

ADJUSTMENT

②-2-2: DDX_NAVI KNA-G520

Adjust the Screen Adjustment key so that the NAVI screen becomes horizontally symmetrical.



Adjust the key so that the width of the left gap is same as that of right gap.

Enlarge OK



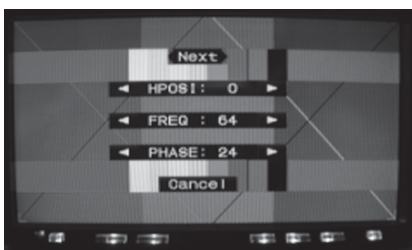
Enlarge OK



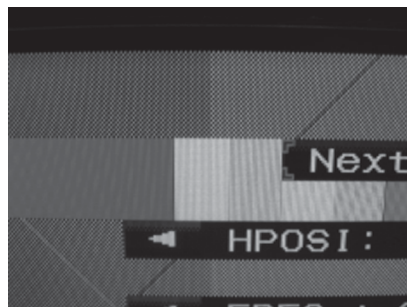
• Display Range Adjustment: FREQ

Adjust the Display Range Adjustment key so that there is no vertical black stripes (blur) on the screen.

OK



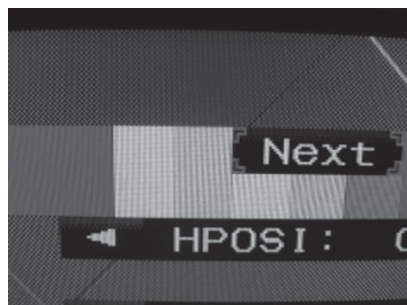
Enlarge OK



NG



Enlarge NG



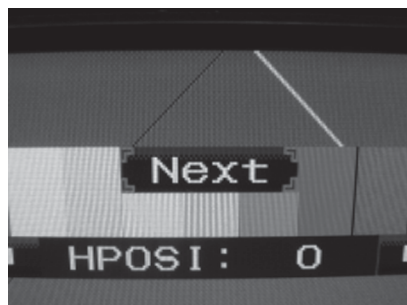
• Pixel Adjustment: PHASE

Adjust the Pixel Adjustment key so that the screen becomes gray.

OK

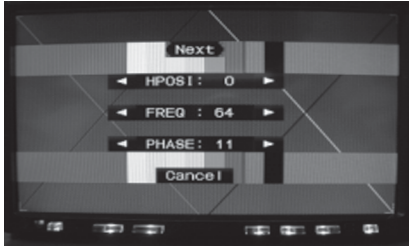


Enlarge OK

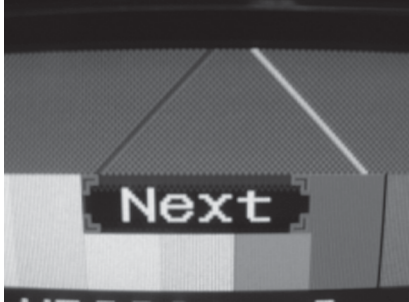


ADJUSTMENT

NG



Enlarge NG



● Confirmation after the adjustment

After the adjustment, confirm that the screen is horizontally symmetrical.

The "HPOSI OK" will be displayed to indicate the completion of the adjustment.

Note: Do not adjust HPOSI after the adjustment of DOT PHASE.

4. Touch panel adjustment

● Adjustment procedure

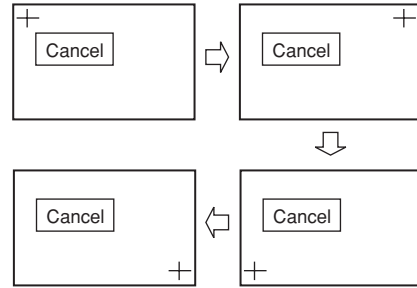
- ① Press the Touch Key on the Test Mode Menu screen to enter the Touch panel adjustment screen.



- ② Touch the center of "+" mark below in the following order.

Upper left → Upper right → Lower left → Lower right
To touch, make sure to use the designated touch stick.

- ③ After adjustment is completed for 4 areas, if "Write OK" is displayed, the adjustment is completed.
Press Return to exit from the Touch screen.



* If the center of "+" mark wasn't pressed accurately, press Cancel to start over the adjustment.

Note

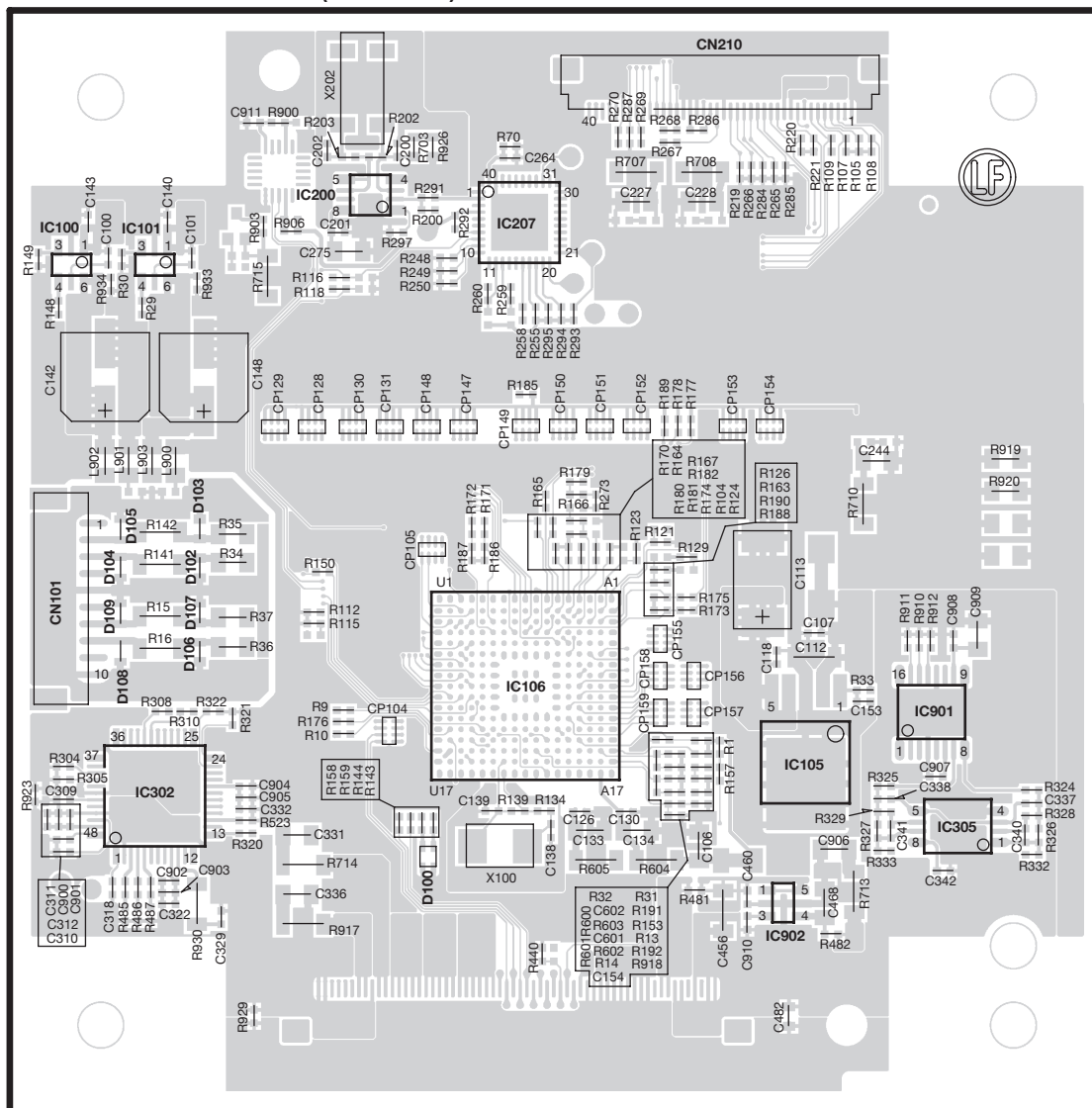
The touch panel adjustment data is finalized when the touch stick is released from the mark.

Therefore, the Knack for Adjustment is not to release the touch stick from the mark right after touching the center of the "+" mark, but to confirm that the stick is exactly on the center of the "+" mark while keeping touching the screen. (If the stick is not exactly on the center of the mark, move the stick onto the center of the mark while keeping touching the screen.)

Then, quickly and vertically release the stick from the screen.

PC BOARD (COMPONENT SIDE VIEW)

DIGITAL I/O UNIT X88-2030-11 (J76-0512-12)



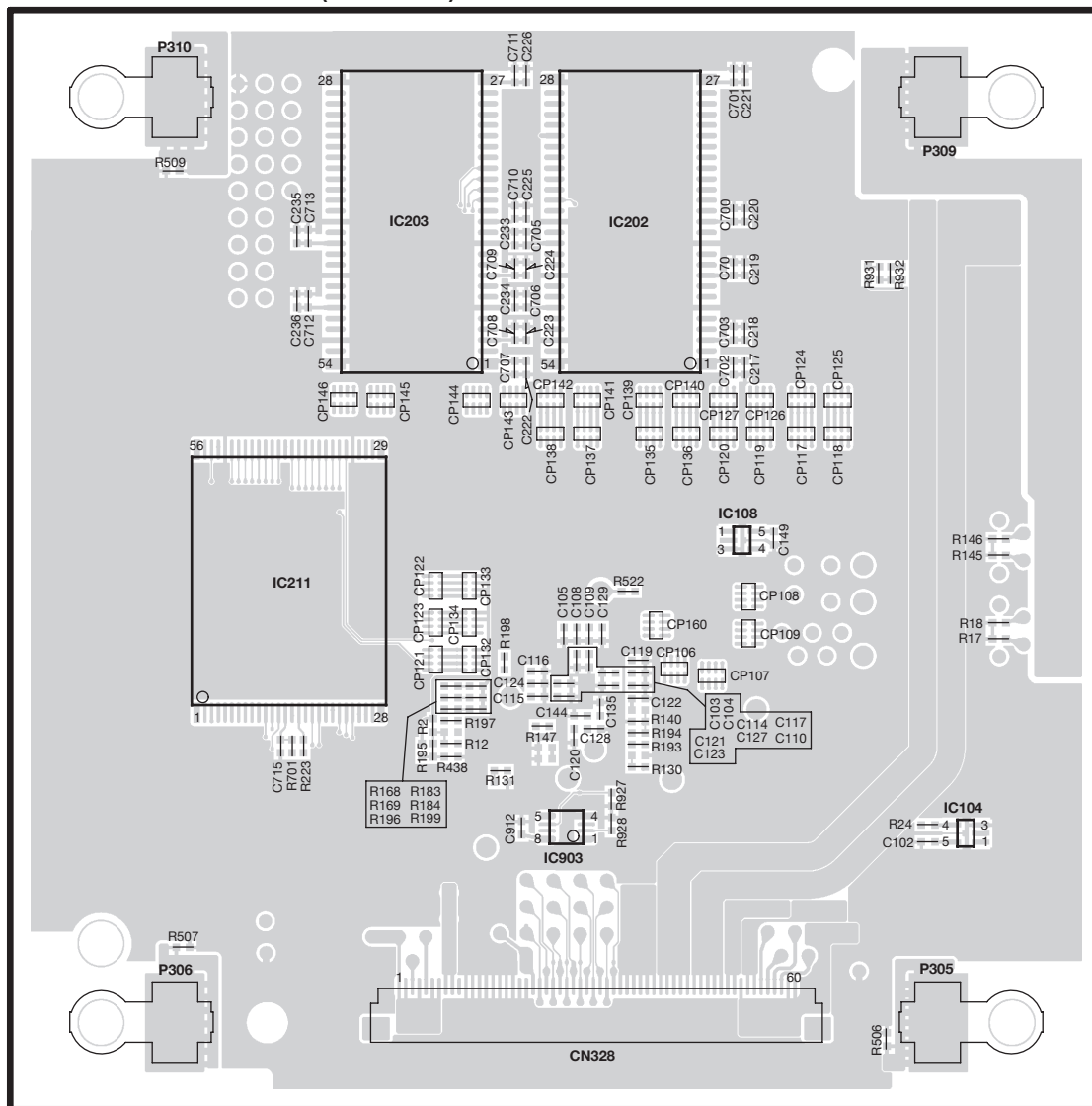
X88-2030-11

Ref. No.	Address
IC100	2B
IC105	4D
IC106	4C
IC200	2B
IC207	2C
IC302	4B
IC305	4E
IC901	4D
IC902	4D

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

PC BOARD (FOIL SIDE VIEW)

DIGITAL I/O UNIT X88-2030-11 (J76-0512-12)

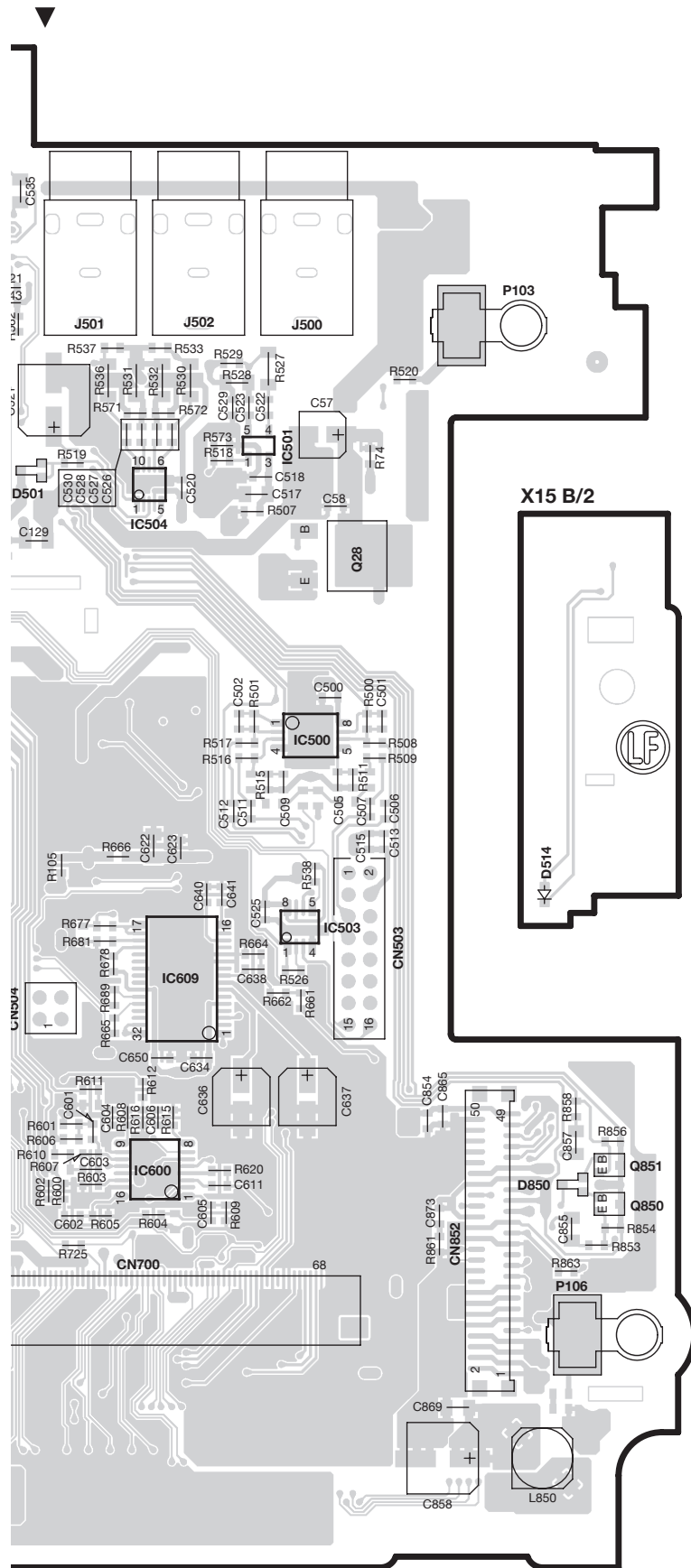


X88-2030-11

Ref. No.	Address
IC104	4I
IC108	3H
IC202	2H
IC203	2G
IC211	3G
IC903	4H

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





X15-117x-xx

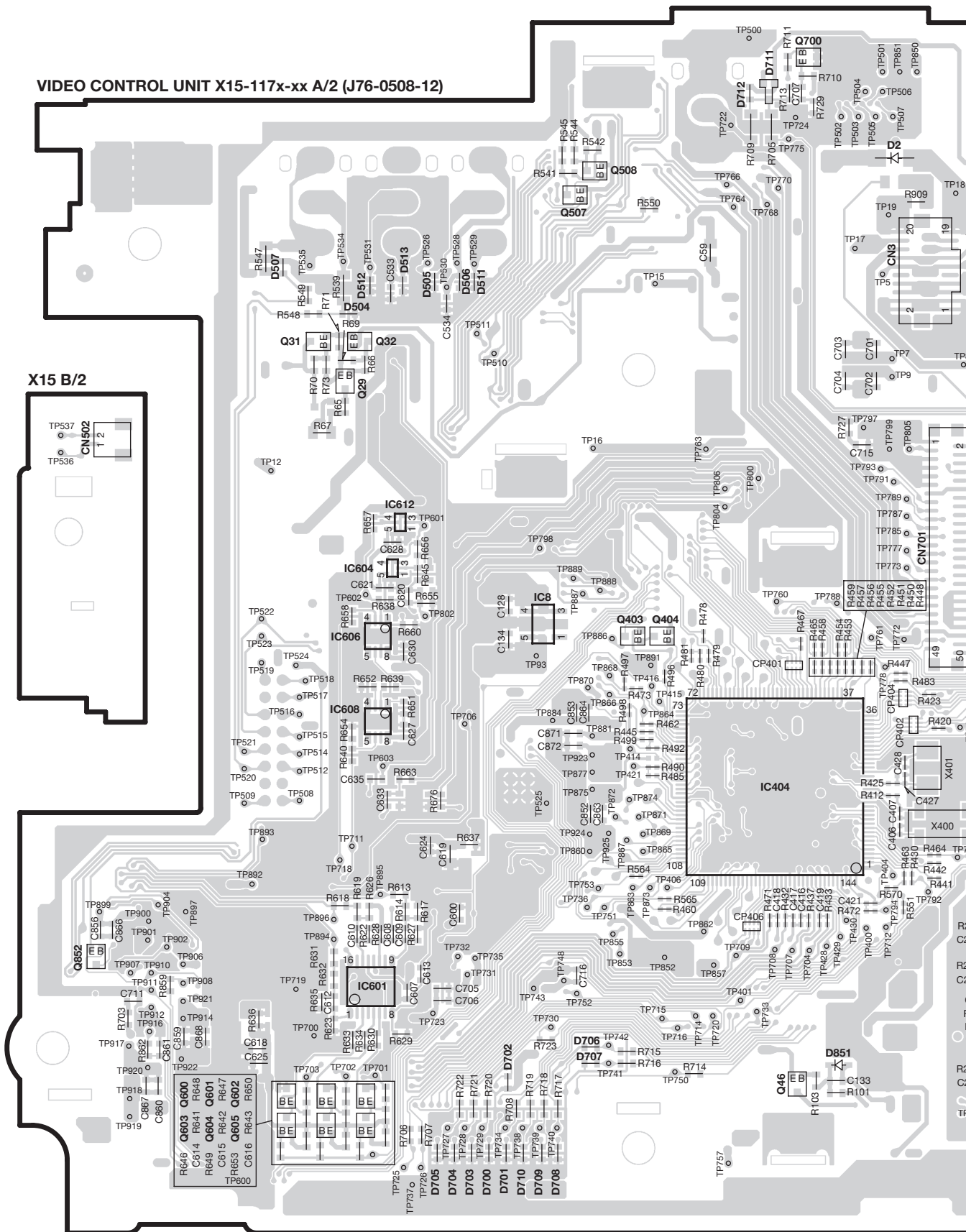
Ref. No.	Address
IC400	6N
IC402	5N
IC405	5M
IC501	3Q
IC502	2O
IC504	3P
IC505	2O
IC600	5P
IC609	5P
IC700	3N
Q2	4L
Q3	4L
Q13	3L
Q15	3L
Q28	3Q
Q35	2N
Q37	3N
Q38	3O
Q39	3O
Q45	4M
Q47	6N
Q48	3M
Q49	3M
Q205	4L
Q206	5L
Q207	5L
Q208	6M
Q400	5N
Q402	5N
Q500	2N
Q501	2N
Q502	3O
Q503	3O
Q504	2N
Q505	7K
Q506	5N
Q509	6K
Q510	5N
Q606	3M
Q850	6R
Q851	5R

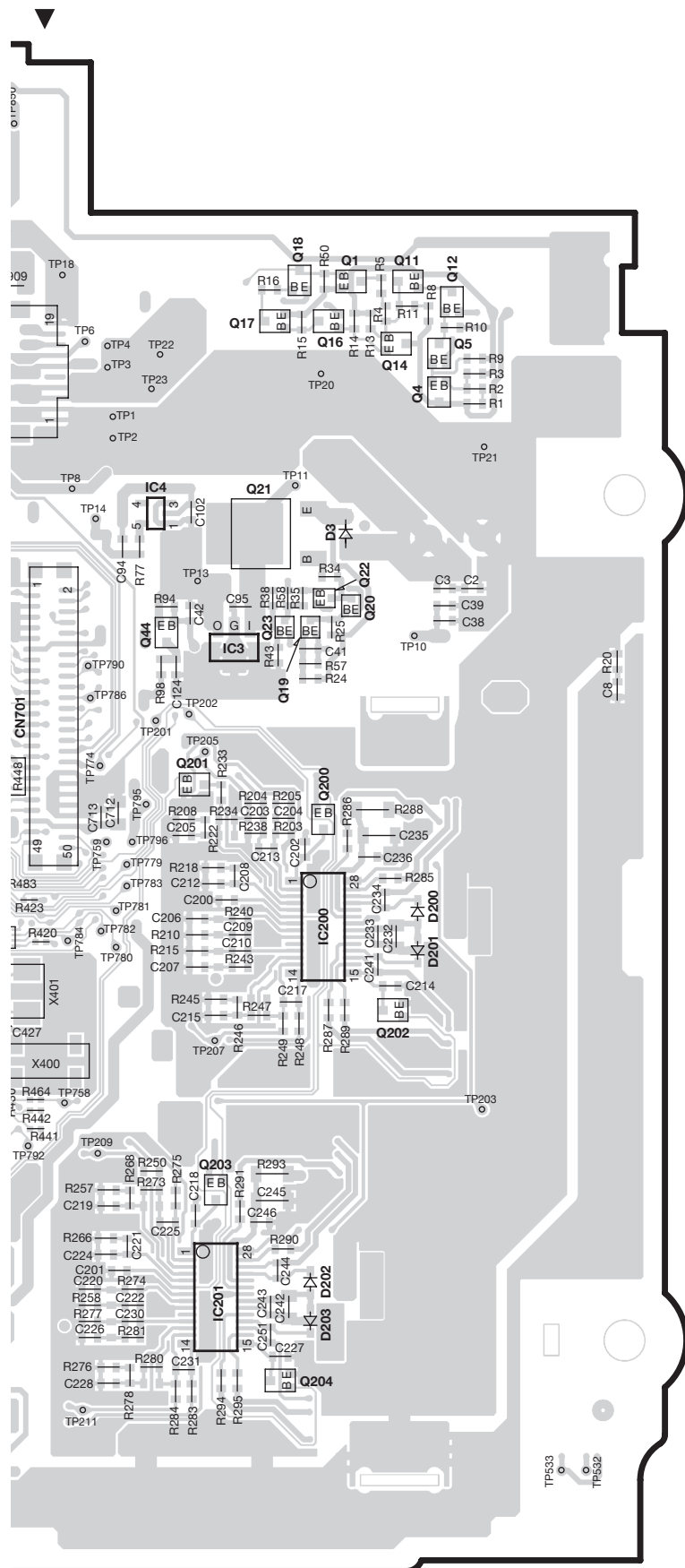
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

VIDEO CONTROL UNIT X15-117x-xx A/2 (J76-0508-12)

X15 B/2





X15-117x-xx

Ref. No.	Address
IC3	4Z
IC4	3Z
IC8	4W
IC200	5AA
IC201	6Z
IC404	5Y
IC601	6W
IC604	4W
IC606	4W
IC608	5W
IC612	4W
Q1	2AA
Q4	3AA
Q5	2AA
Q11	2AA
Q12	2AA
Q14	2AA
Q16	2AA
Q17	2Z
Q18	2AA
Q19	4AA
Q20	3AA
Q21	3Z
Q22	3AA
Q23	3Z
Q29	3W
Q31	3V
Q32	3W
Q44	3Z
Q46	6Y
Q200	4AA
Q201	4Z
Q202	5AA
Q203	5Z
Q204	6AA
Q403	4X
Q404	4X
Q507	2X
Q508	2X
Q600	6V
Q601	6V
Q602	6V
Q603	6V
Q604	6V
Q605	6V
Q700	1Y
Q852	6U

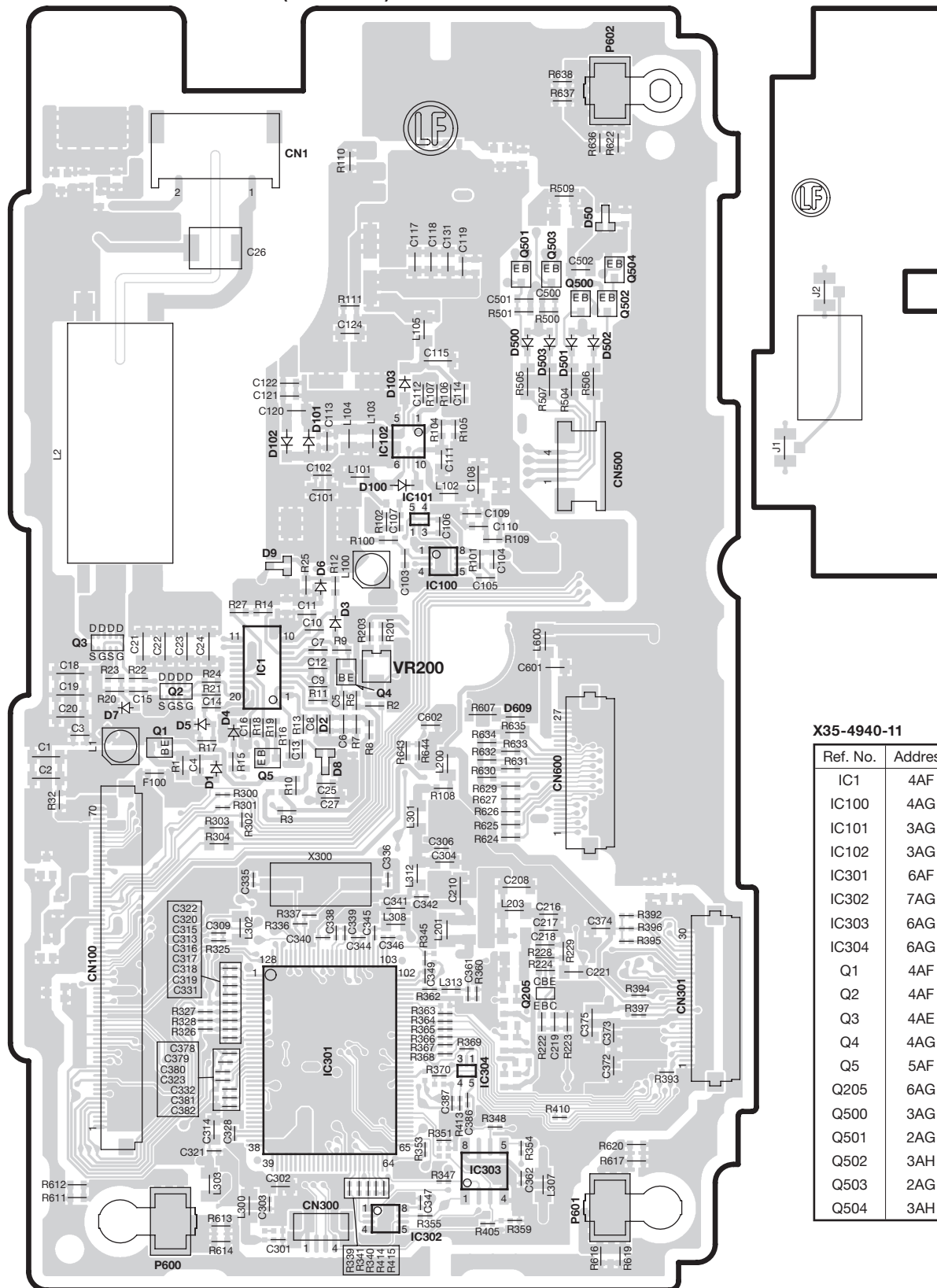
Refer to the schematic diagram for the values of resistors and capacitors.

DDX7032/7032M/712
DNX7120/7220/7320

PC BOARD (COMPONENT SIDE VIEW)

VIDEO UNIT X35-4940-11 A/2 (J76-0511-12)

X35 B/2



X35-4940-11

Ref. No.	Address
IC1	4AF
IC100	4AG
IC101	3AG
IC102	3AG
IC301	6AF
IC302	7AG
IC303	6AG
IC304	6AG
Q1	4AF
Q2	4AF
Q3	4AE
Q4	4AG
Q5	5AF
Q205	6AG
Q500	3AG
Q501	2AG
Q502	3AH
Q503	2AG
Q504	3AH

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

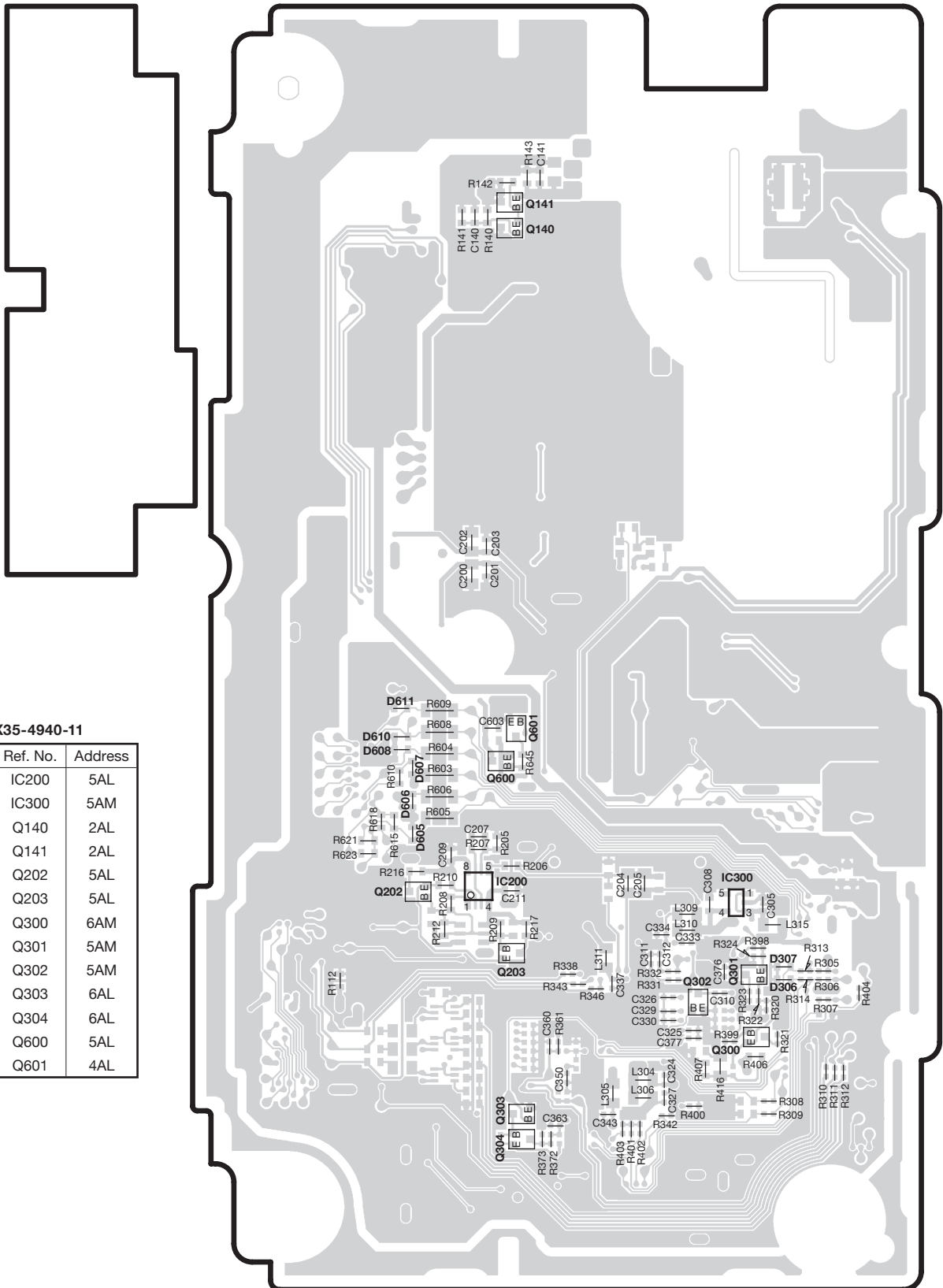
PC BOARD (FOIL SIDE VIEW)

X35 B/2

VIDEO UNIT X35-4940-11 A/2 (J76-0511-12)

X35-4940-11

Ref. No.	Address
IC200	5AL
IC300	5AM
Q140	2AL
Q141	2AL
Q202	5AL
Q203	5AL
Q300	6AM
Q301	5AM
Q302	5AM
Q303	6AL
Q304	6AL
Q600	5AL
Q601	4AL

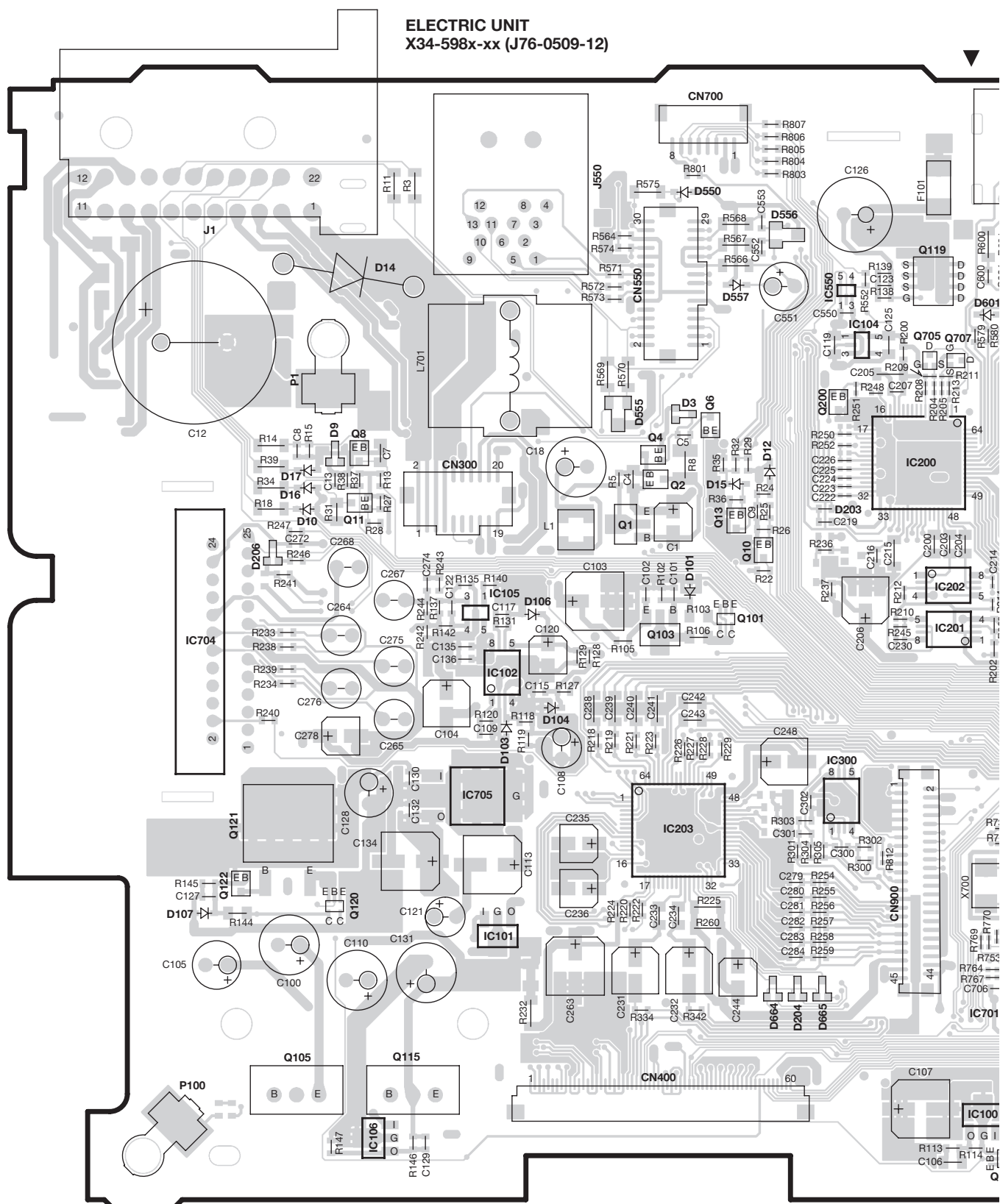


Refer to the schematic diagram for the values of resistors and capacitors.

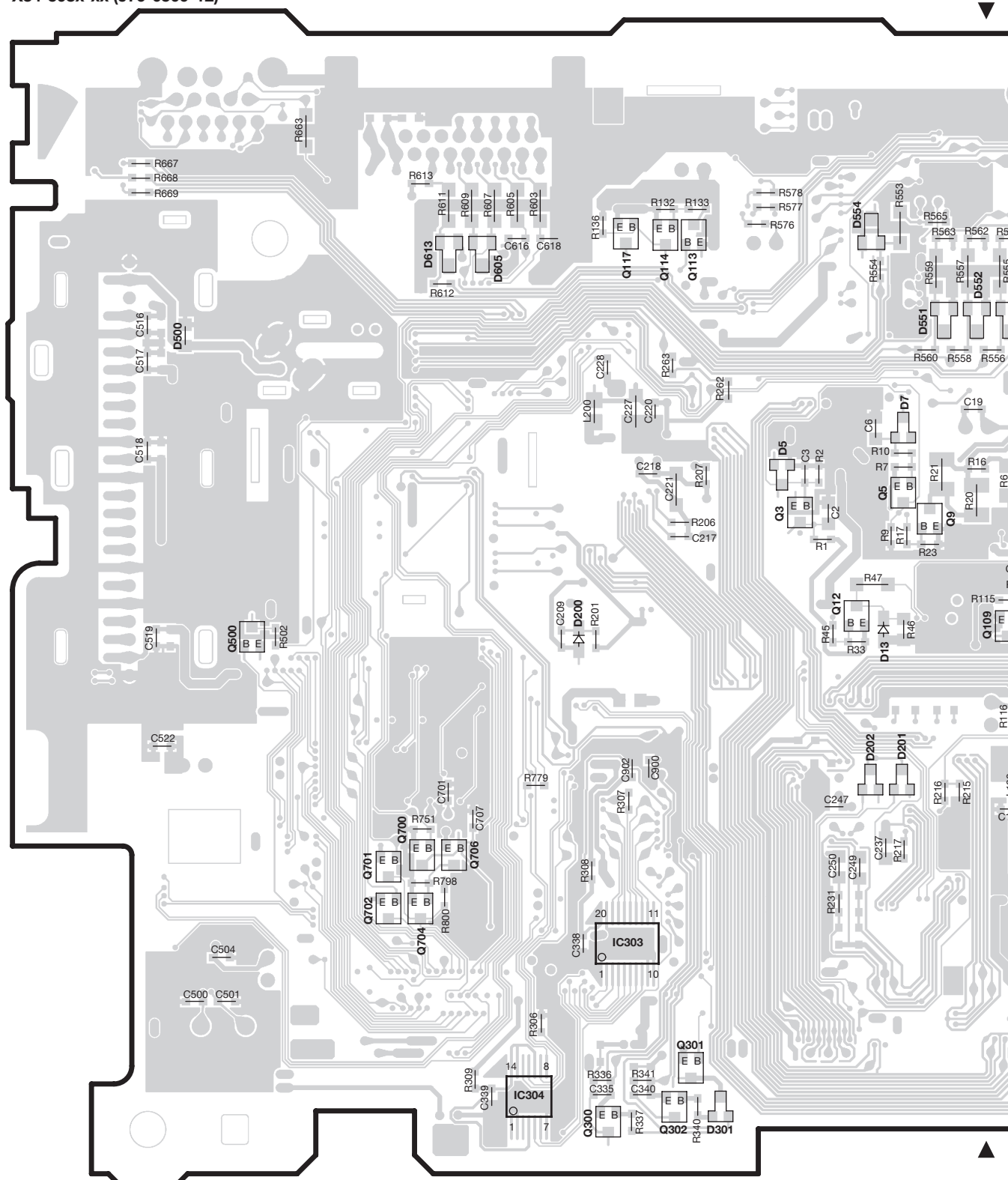
DDX7032/7032M/712
DNX7120/7220/7320

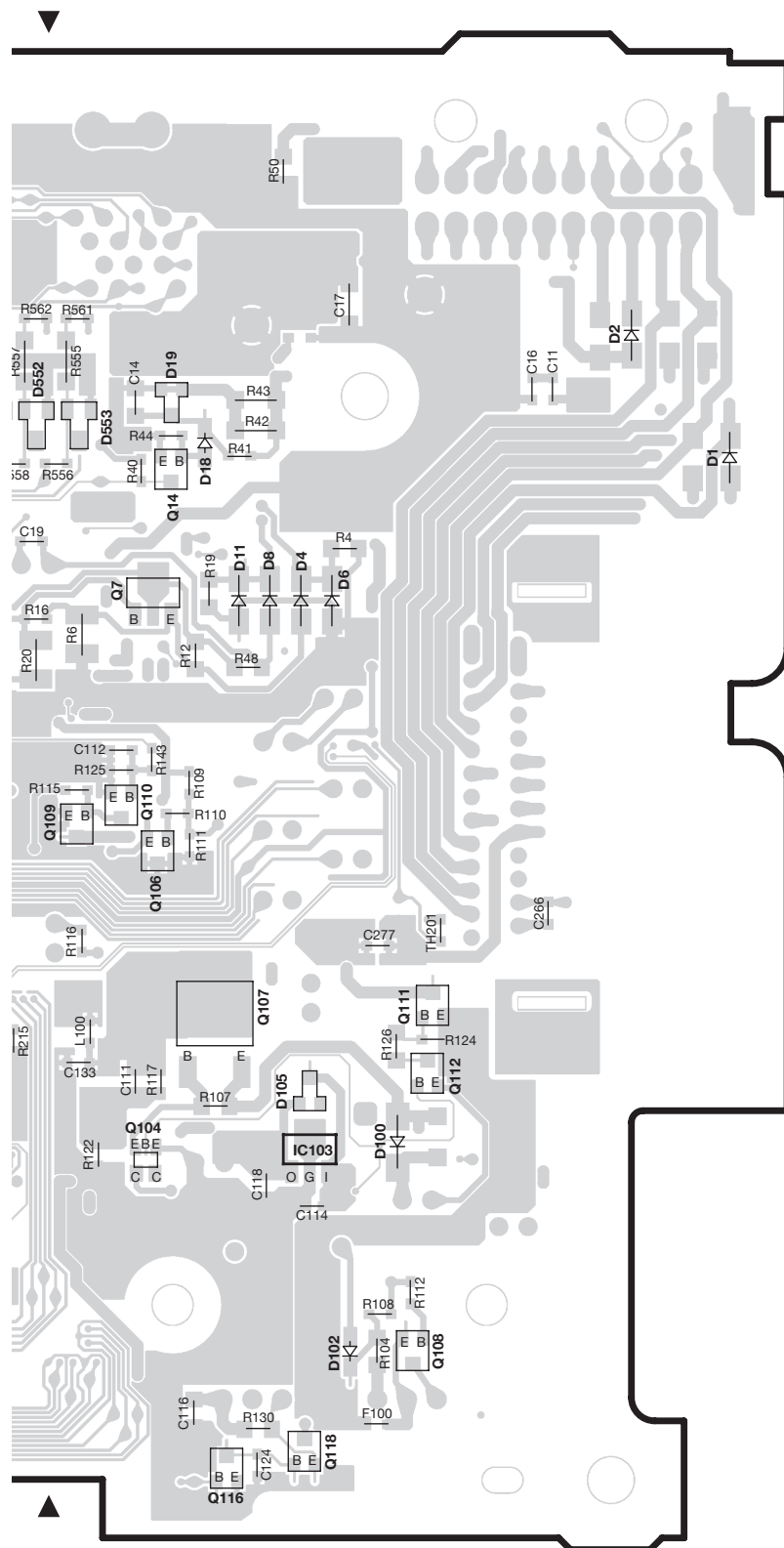
PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT
X34-598x-xx (J76-0509-12)



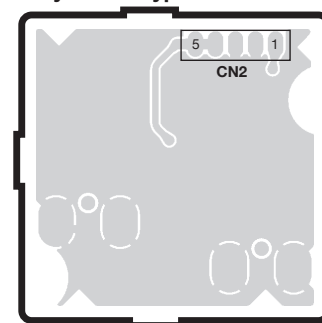
ELECTRIC UNIT
X34-598x-xx (J76-0509-12)





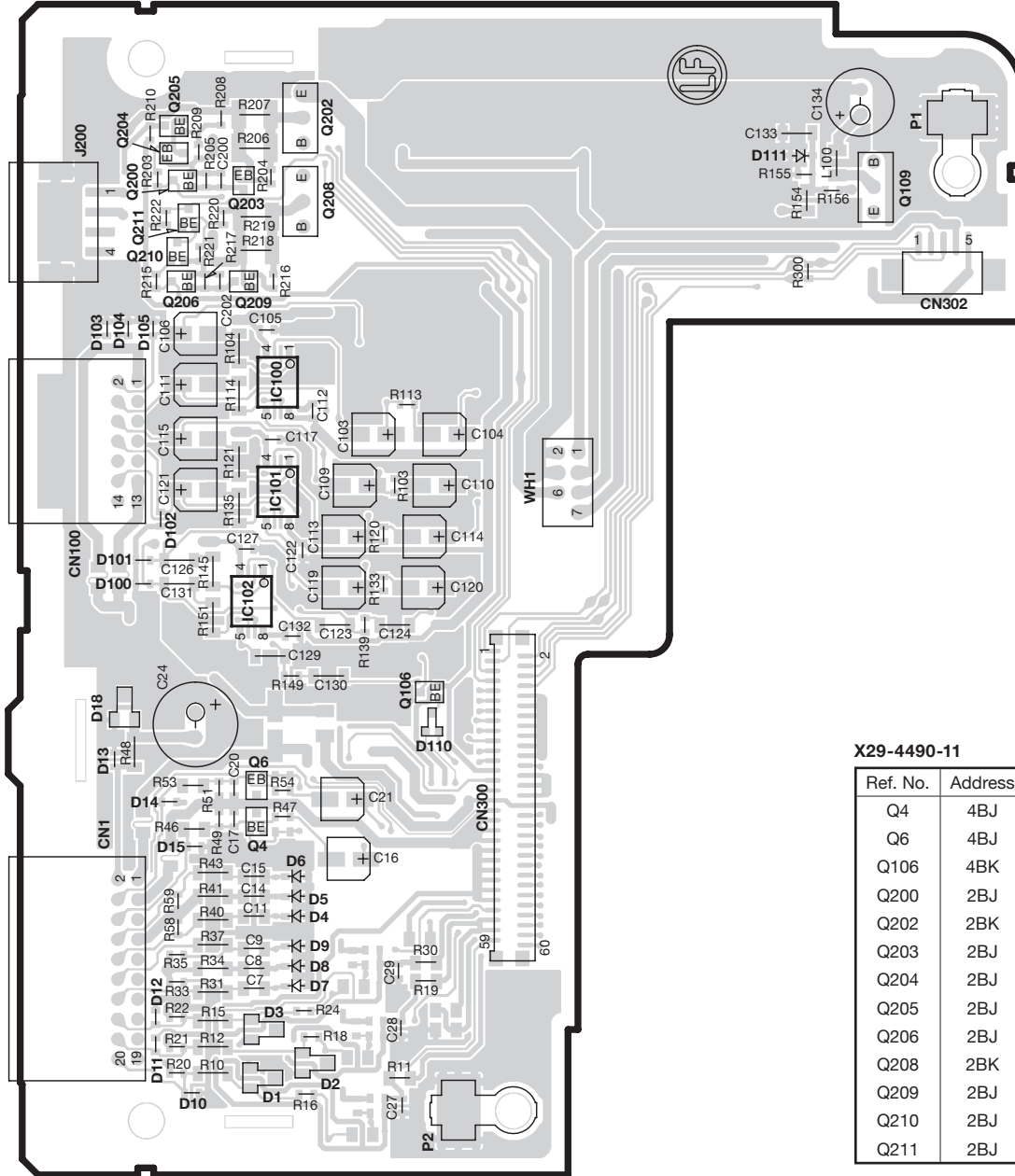
X34-598x-xx

Ref. No.	Address
IC103	5BE
Q3	4BB
Q5	4BC
Q7	3BD
Q9	4BC
Q14	3BD
Q104	5BD
Q107	5BD
Q108	6BE
Q111	5BE
Q112	5BE
Q113	3BB
Q114	3BB
Q116	6BD
Q117	3BB
Q118	6BE
Q500	4AZ
Q700	5BA
Q701	5BA
Q702	5BA
Q704	6BA
Q706	5BA

DAUGHTER UNIT
X89-3062-71 (J76-0526-12)
only DNX E type

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

CONTROL CIRCUIT UNIT X29-4490-11 (J76-0510-12)

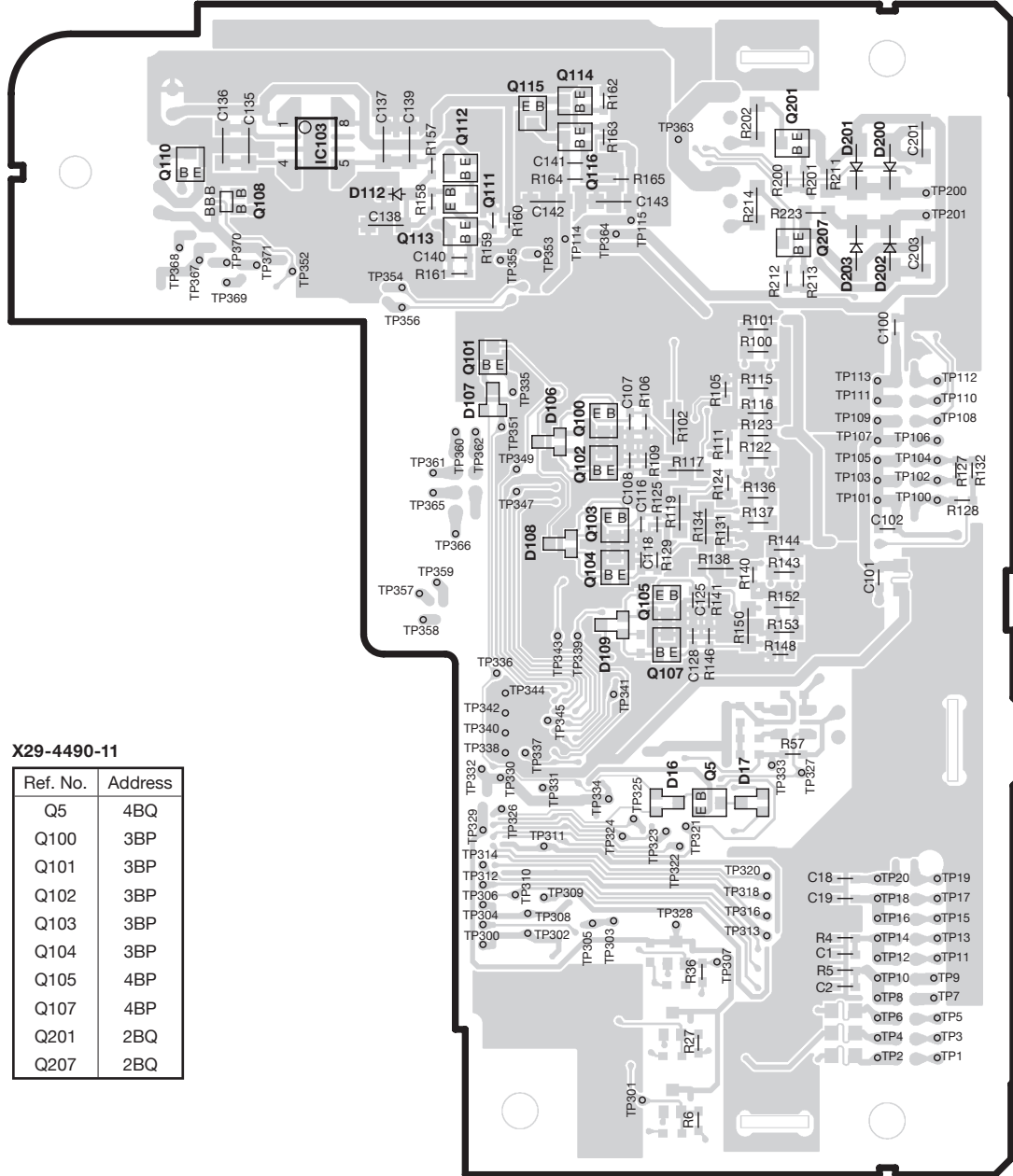


Ref. No.	Address
Q4	4BJ
Q6	4BJ
Q106	4BK
Q200	2BJ
Q202	2BK
Q203	2BJ
Q204	2BJ
Q205	2BJ
Q206	2BJ
Q208	2BK
Q209	2BJ
Q210	2BJ
Q211	2BJ

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

PC BOARD (FOIL SIDE VIEW)

CONTROL CIRCUIT UNIT X29-4490-11 (J76-0510-12)

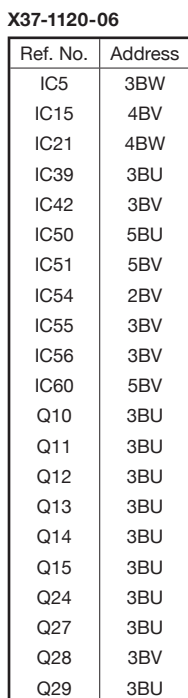


X29-4490-11

Ref. No.	Address
Q5	4BQ
Q100	3BP
Q101	3BP
Q102	3BP
Q103	3BP
Q104	3BP
Q105	4BP
Q107	4BP
Q201	2BQ
Q207	2BQ

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

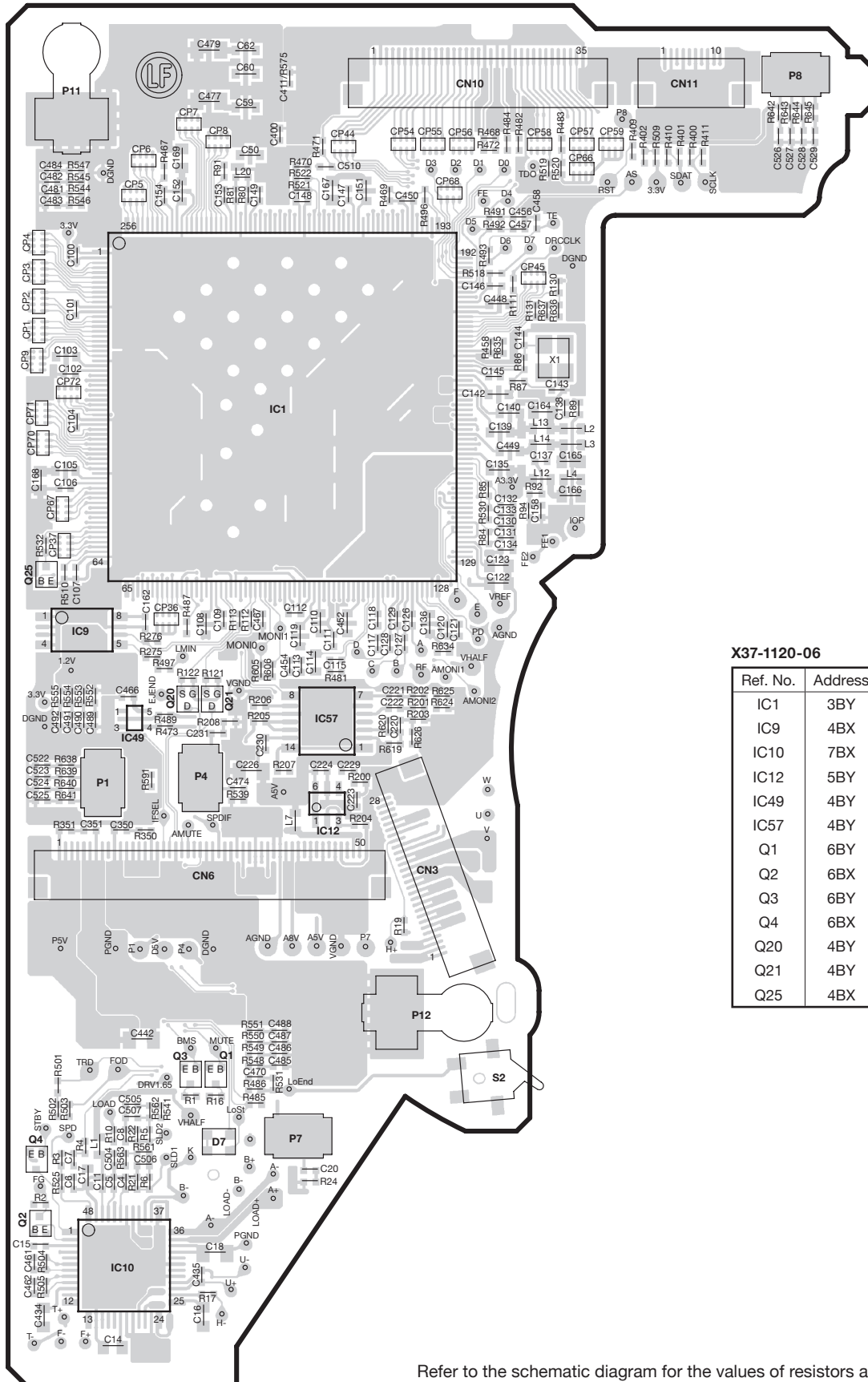
PC BOARD (COMPONENT SIDE VIEW)



52

PC BOARD (FOIL SIDE VIEW)

DVD UNIT X37-1120-06 (J76-0162-22)



X37-1120-06

Ref. No.	Address
IC1	3BY
IC9	4BX
IC10	7BX
IC12	5BY
IC49	4BY
IC57	4BY
Q1	6BY
Q2	6BX
Q3	6BY
Q4	6BX
Q20	4BY
Q21	4BY
Q25	4BX

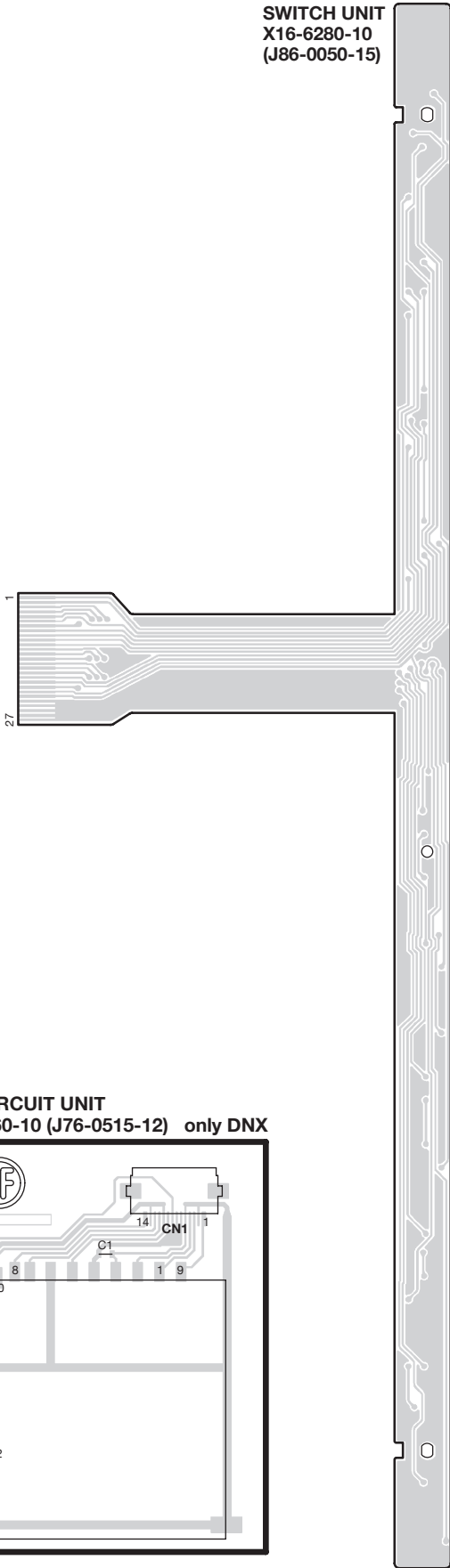
Refer to the schematic diagram for the values of resistors and capacitors.

DDX7032/7032M/712

DNX7120/7220/7320

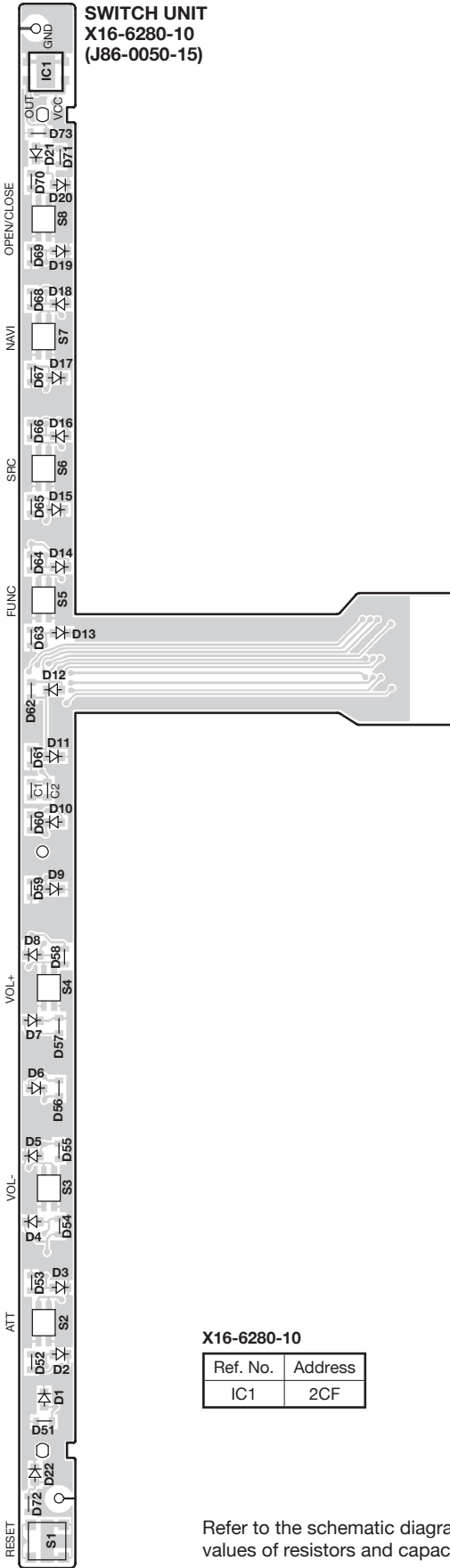
PC BOARD

(COMPONENT SIDE VIEW)



PC BOARD

(FOIL SIDE VIEW)

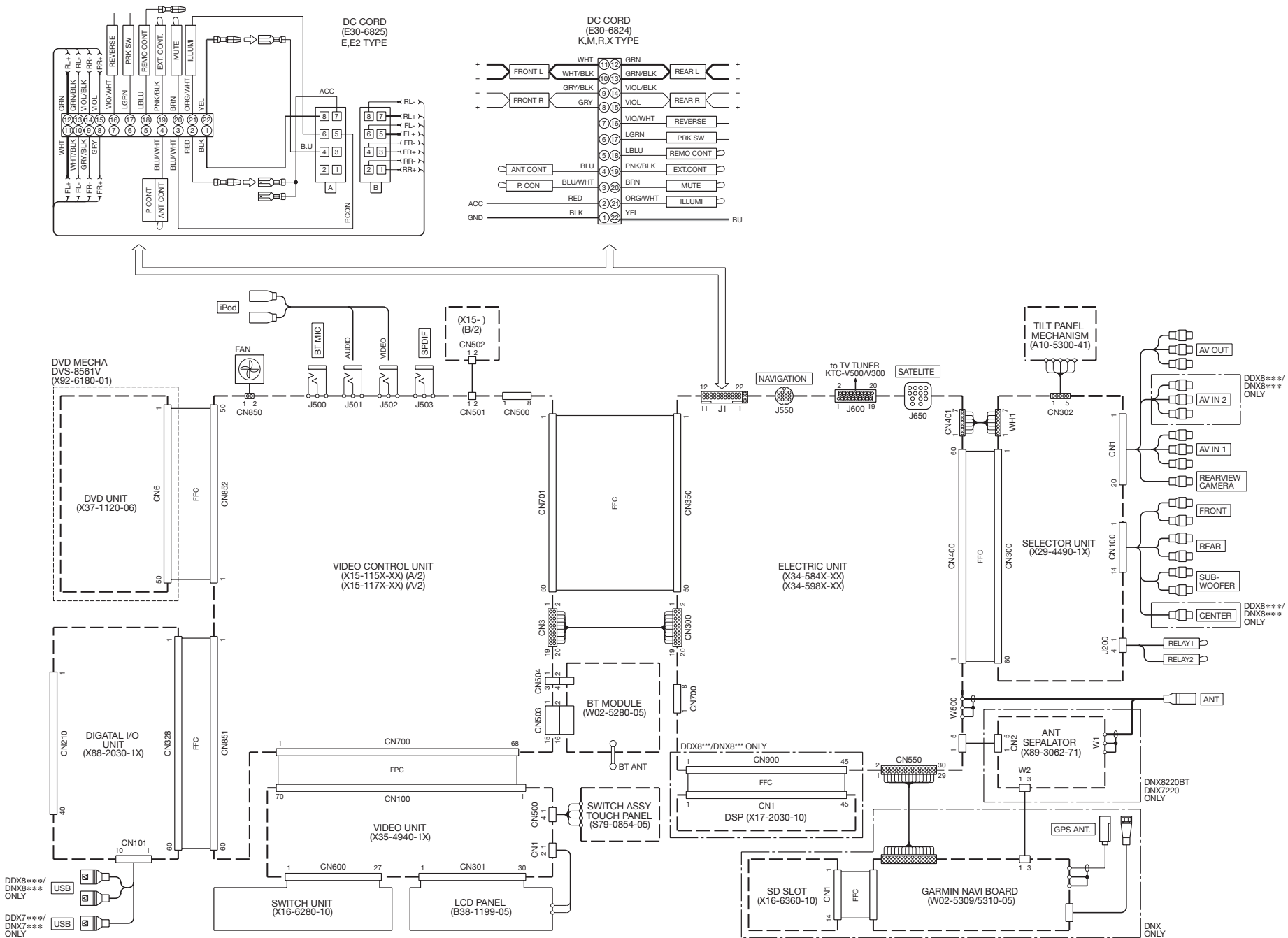


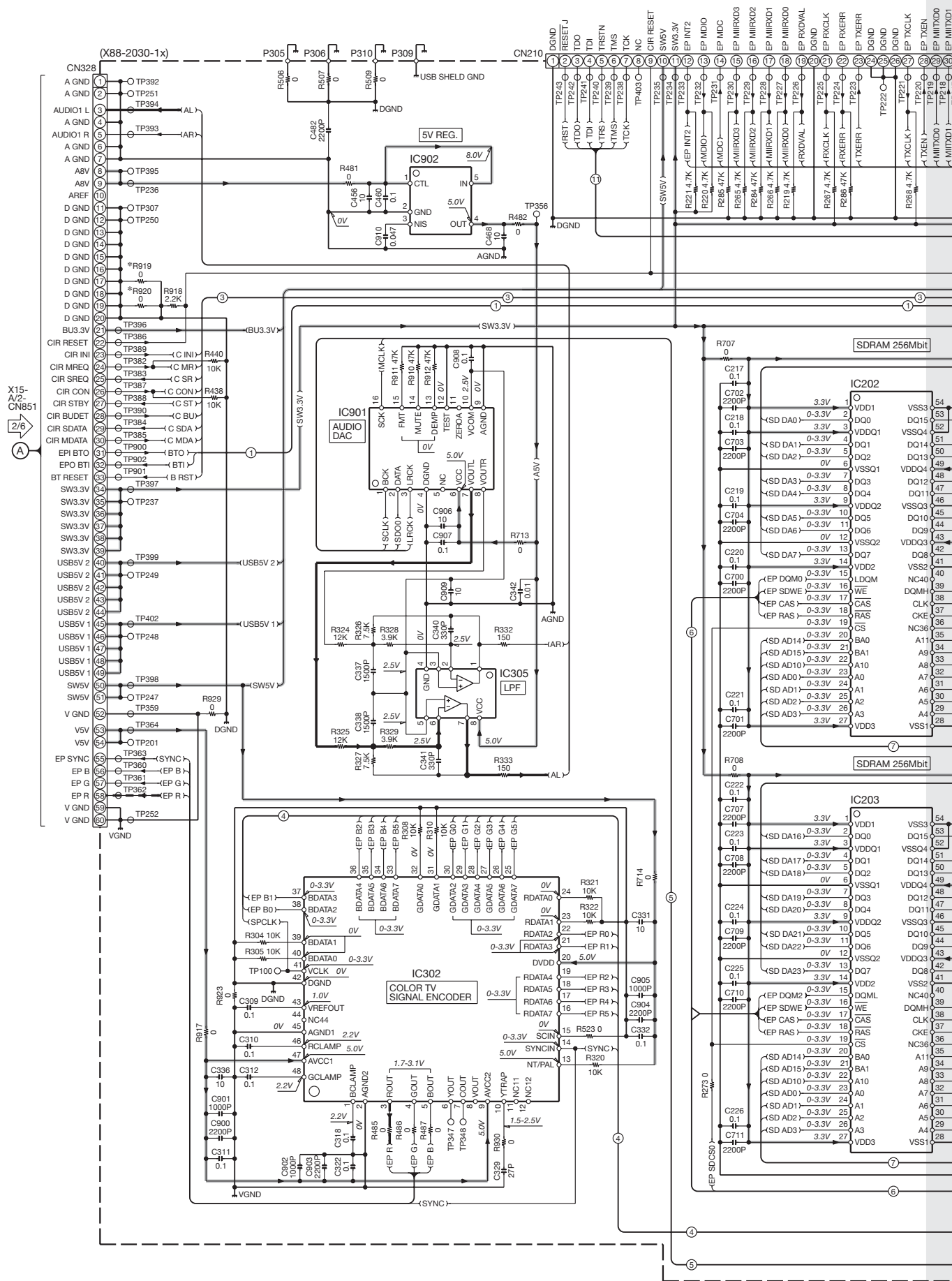
Refer to the schematic diagram for the

values of resistors and capacitors.

INTERCONNECTION DIAGRAM

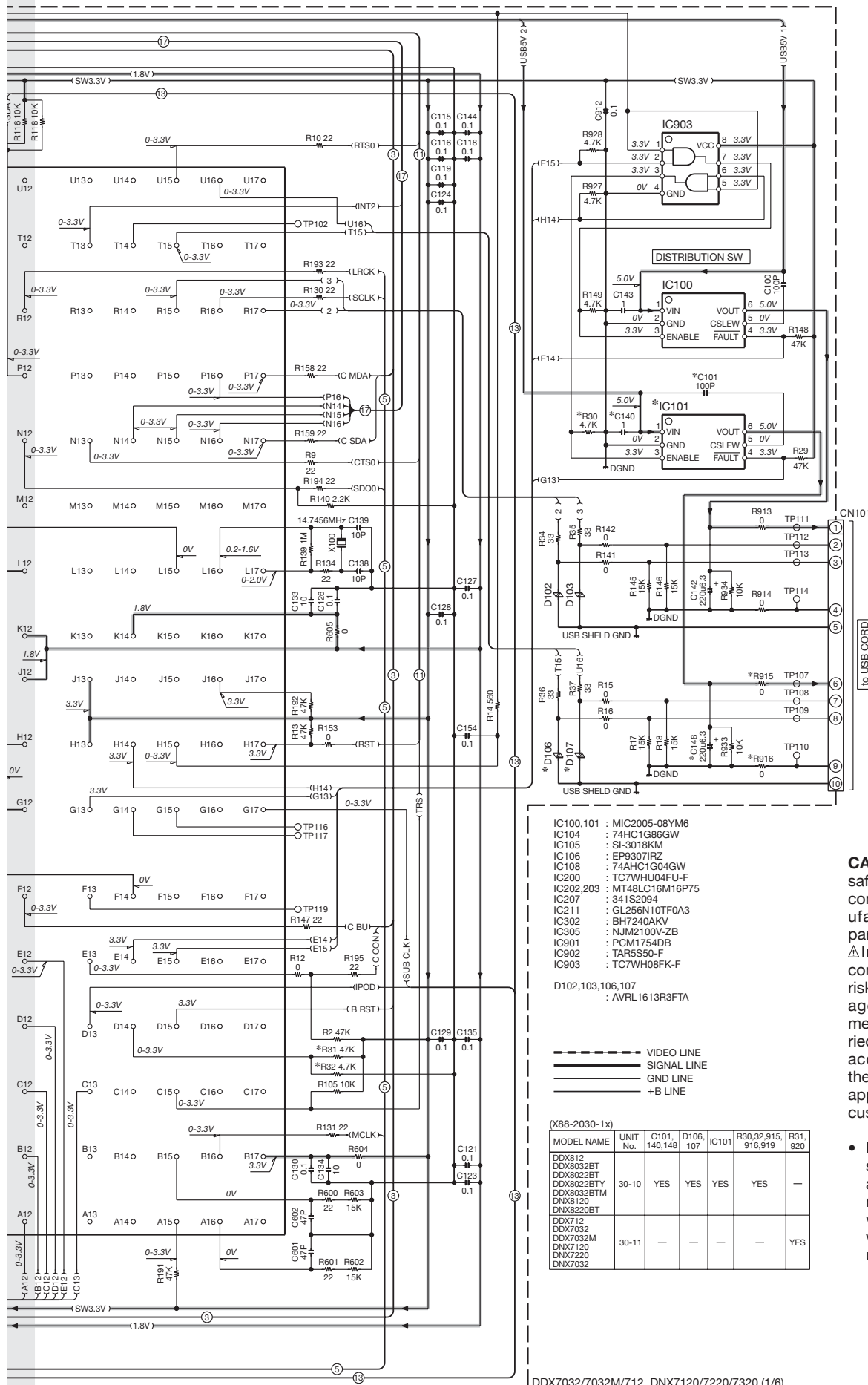
DDX7032/7032M/712
DNX7120/7220/7320









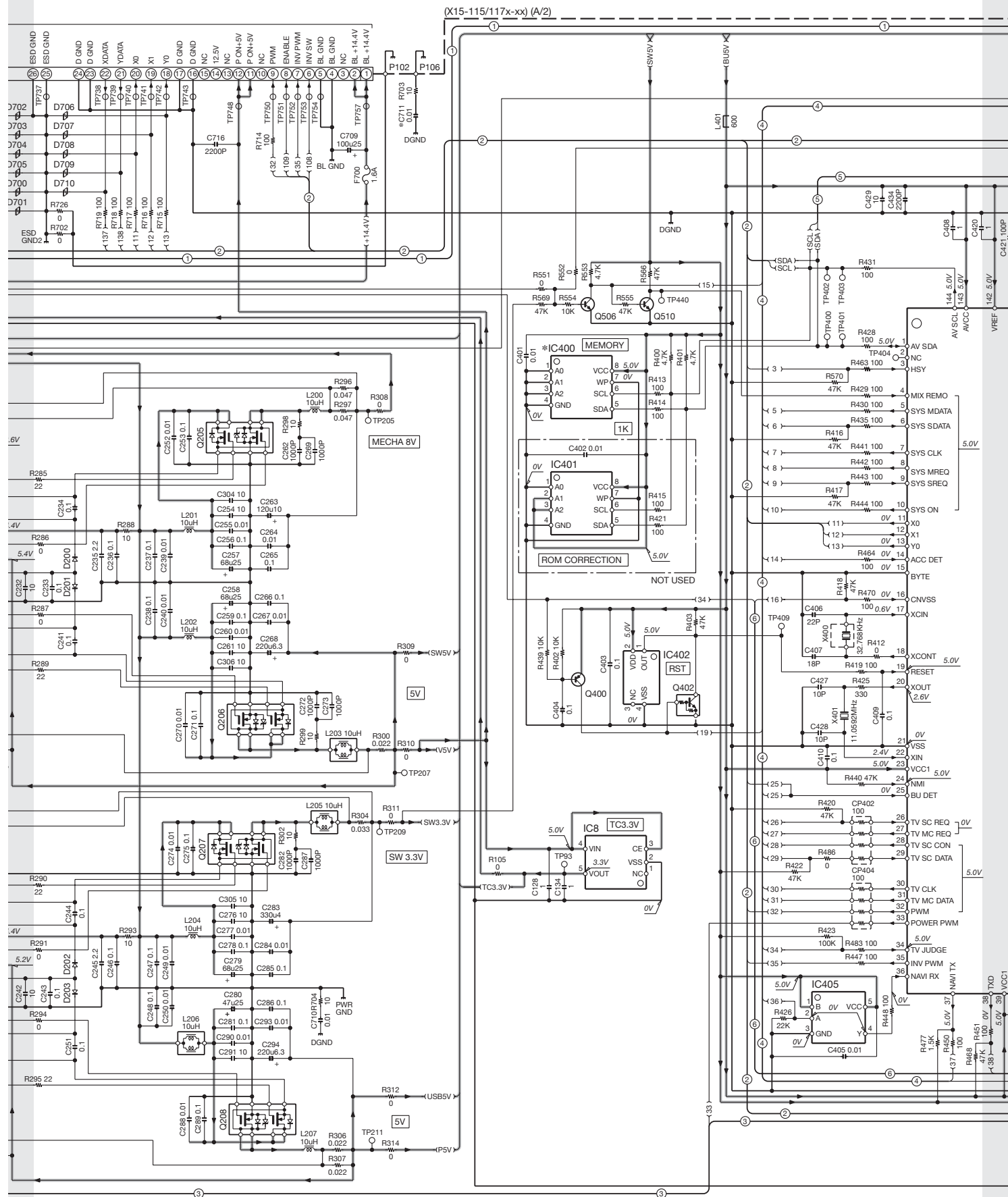


DDX7032/7032M/712, DNX7120/7220/7320 (1/6)

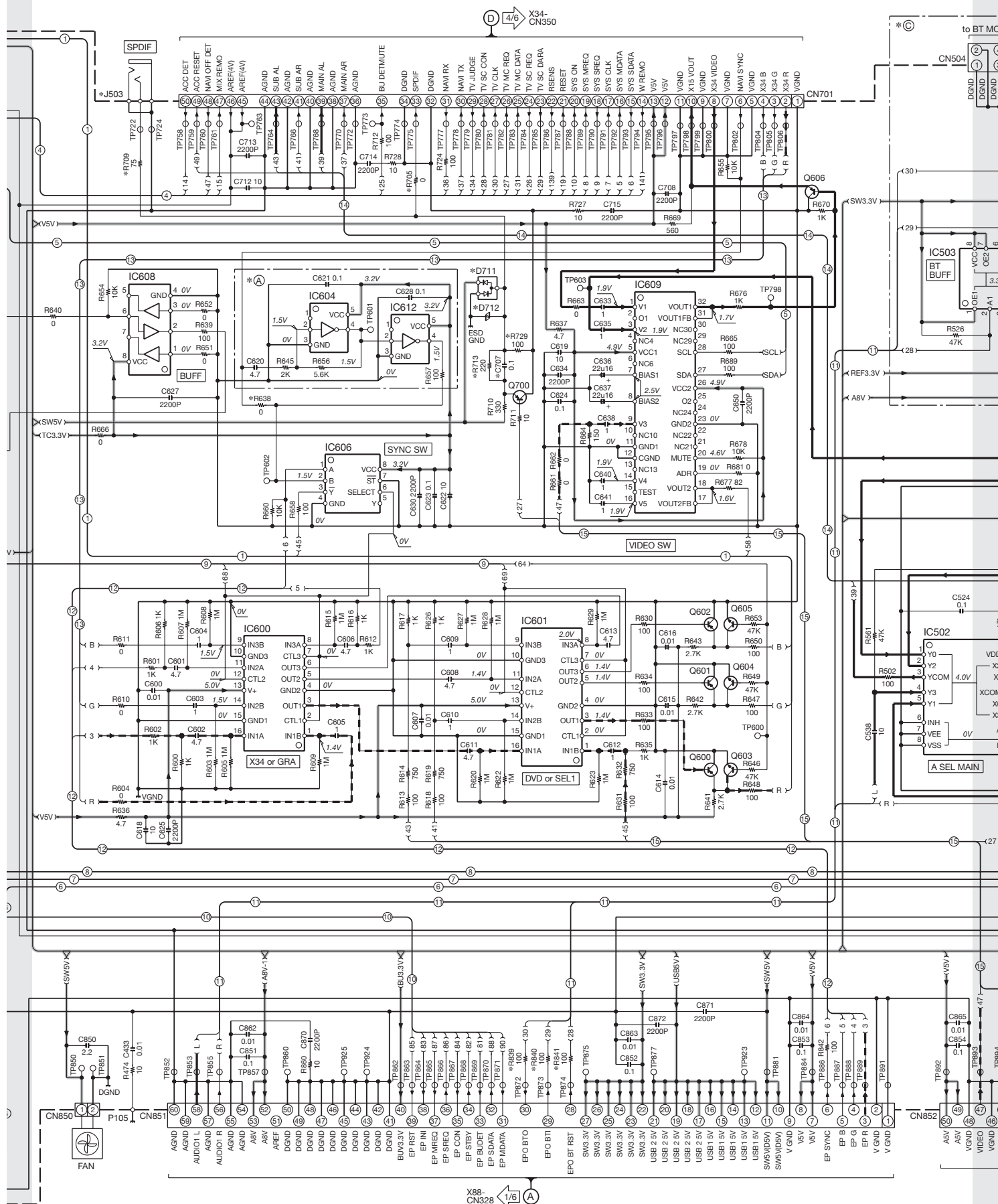
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△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.



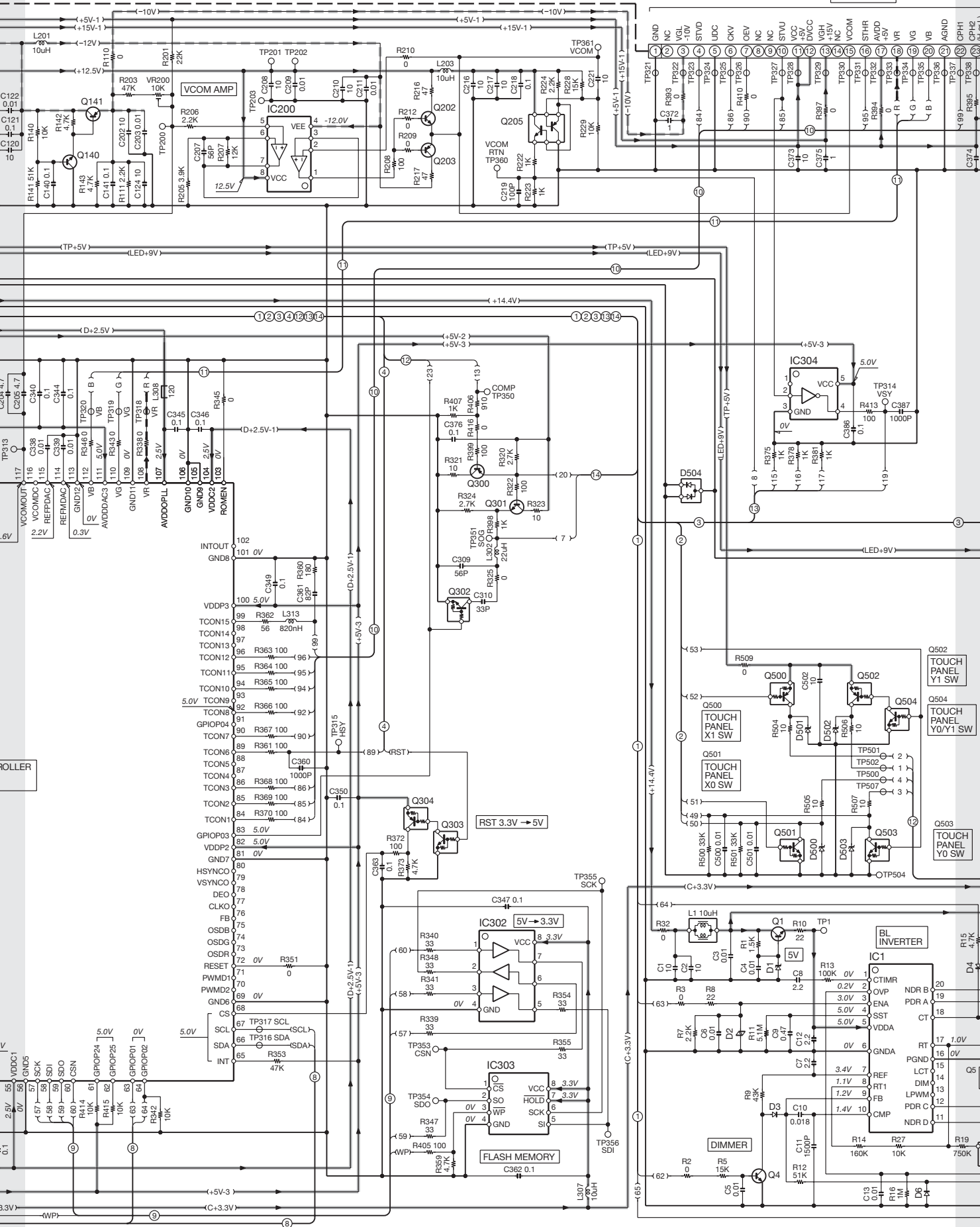
62 X15-117x-xx (3/5)

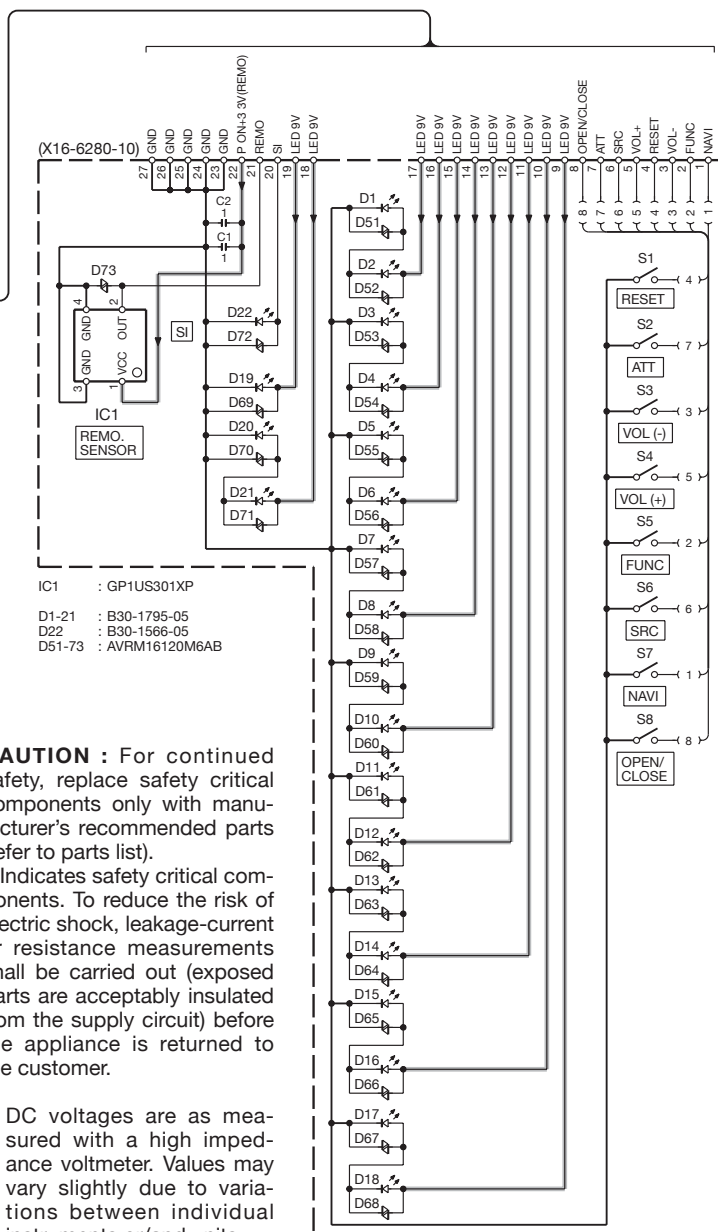
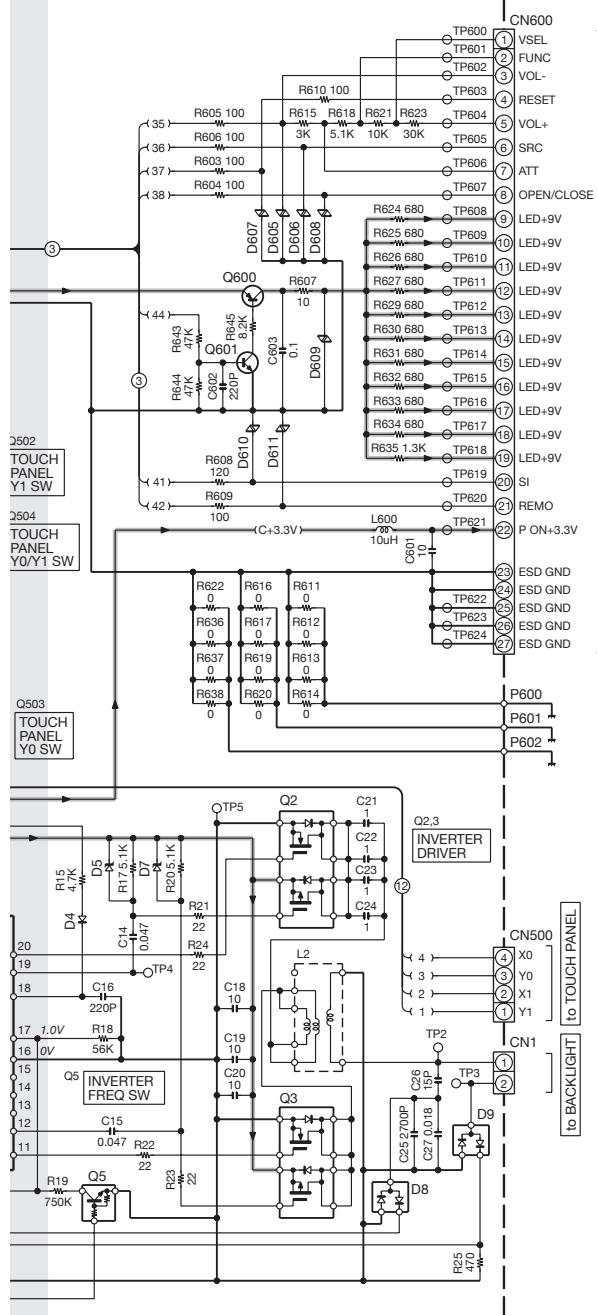
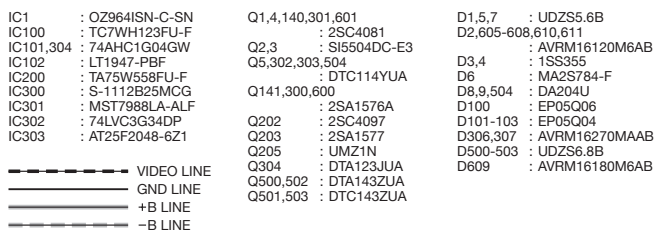
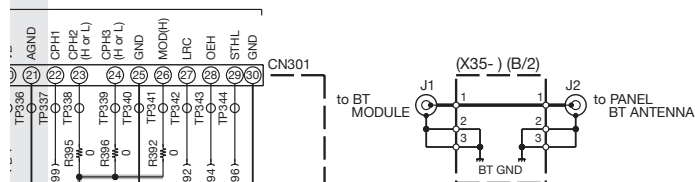
DDX7032/7032M/712
DNX7120/7220/7320

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.

7

64 X15-117x-xx (5/5)





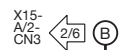
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

Δ 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.

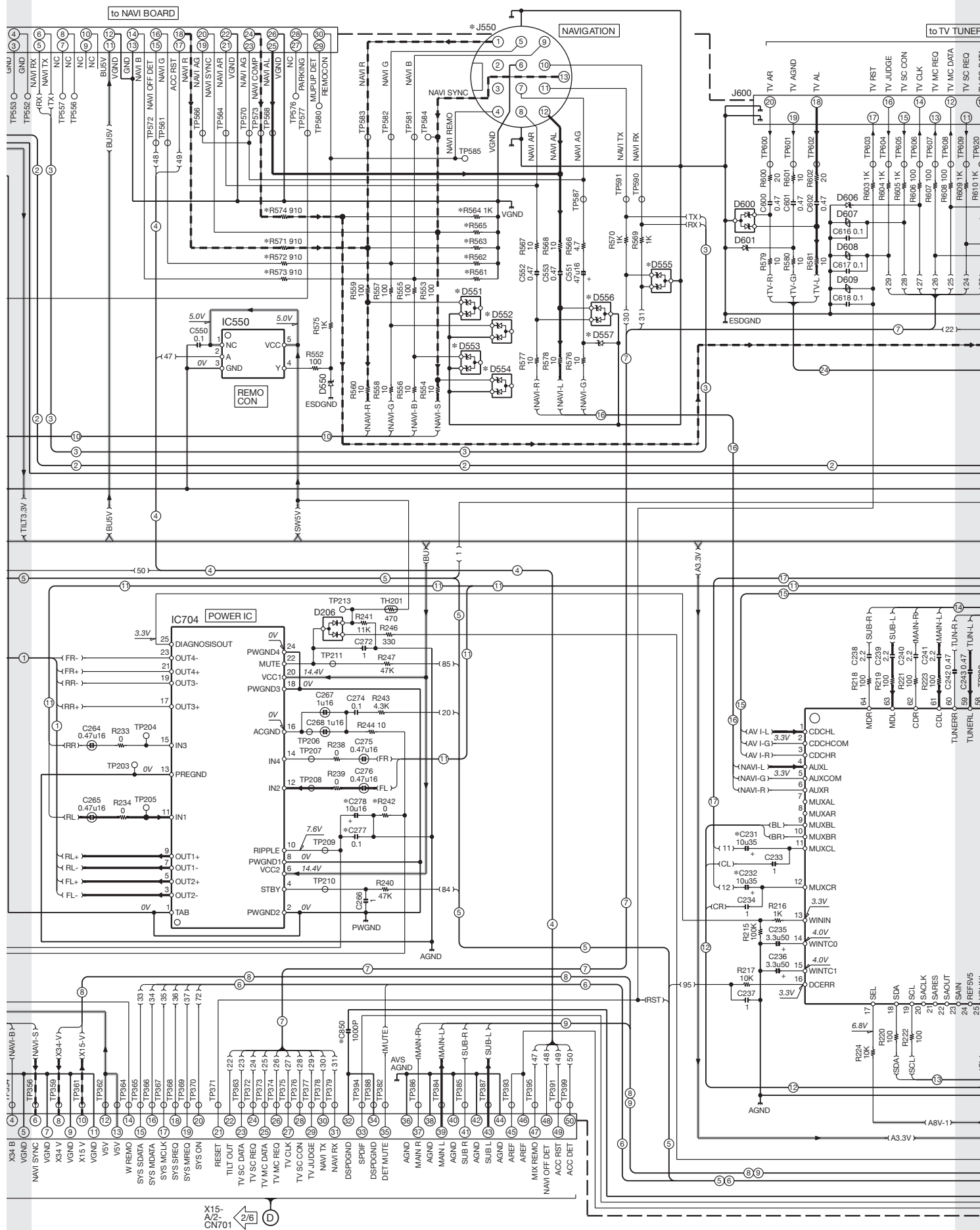
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

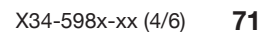
DDX7032/7032M/712, DNX7120/7220/7320 (3/6)

to DC CORD

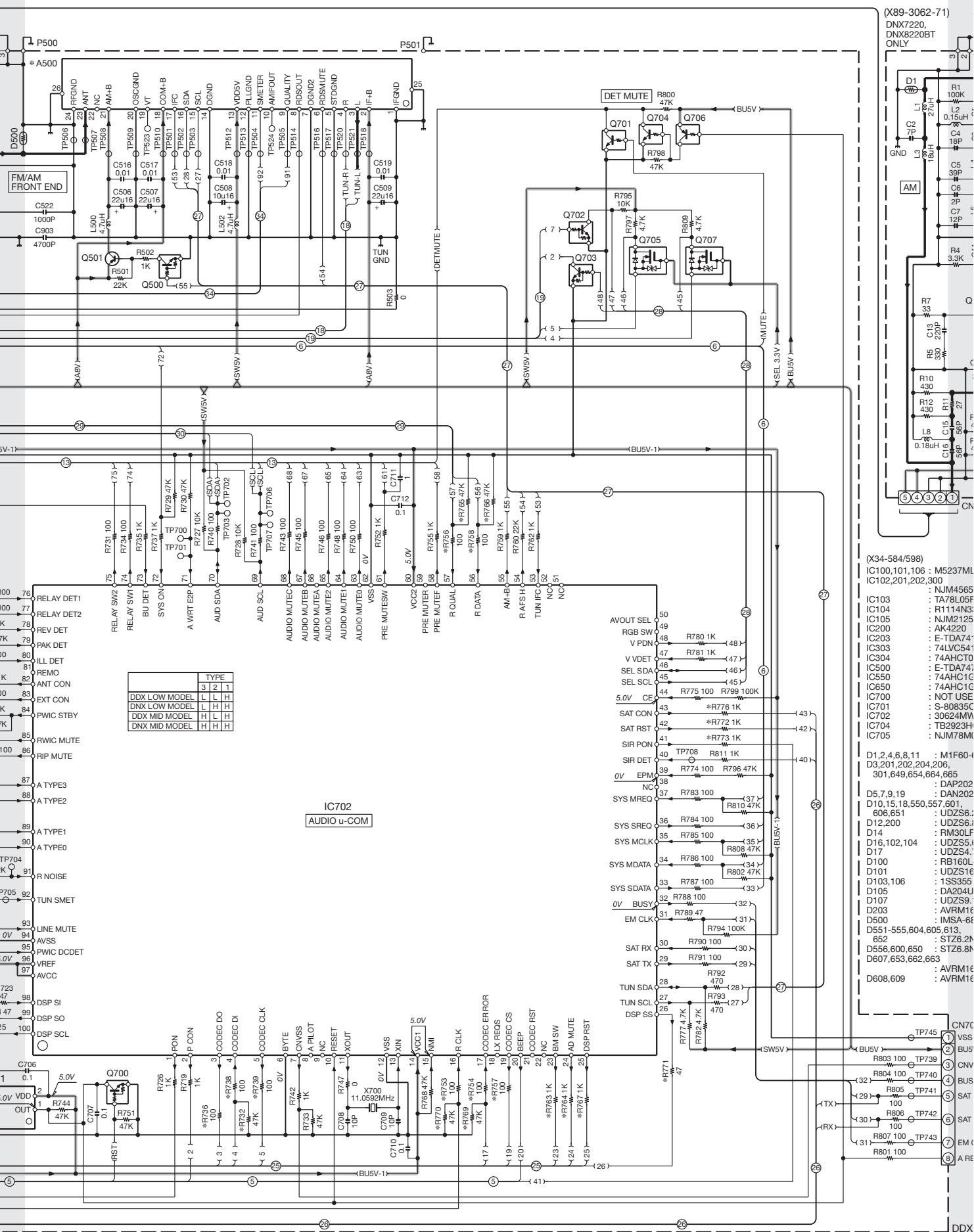


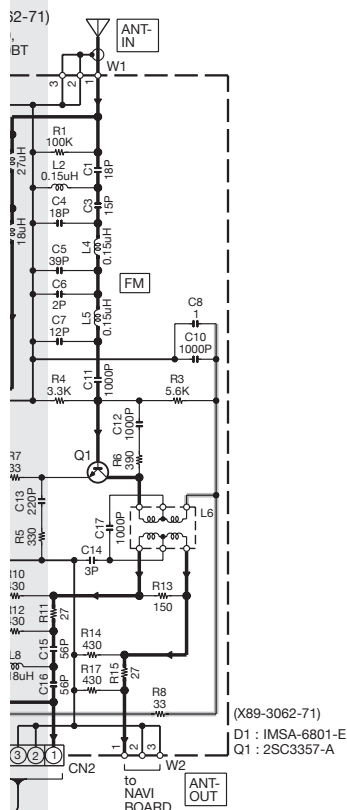
DDX7032/7032M/712
DNX7120/7220/7320






DDX7032/7032M/712
DNX7120/7220/7320

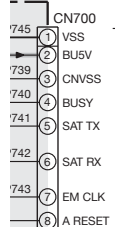




3	M5237ML-CFOJ	Q1	2SB1188(Q,R)
1,300		Q2,5,11,106,114,117,200	
	NJM4565V-ZB		2SA1576A
	TA78L05F-C	Q3,8,112,116,150,703	
	RI114N331B-TR		DT0124EUA
	NJM2125F-ZB	Q4,652	DT24EUA
	AK4220	Q6,113,702	DT2118YU
	E-TDA7415CB	Q7	2SB1188(A)
	74LVC451APW	Q9,10,13,14,108-110,122,	
	74AHC08PW	650,651	2SC4081
	E-TDA7478AD	Q100,101,104,120	
	74AHC104GW		UMCN2
	74AHC1G08GW	Q102,107	2SB1184
	NOT USED	Q103	2SC5712-F
	S-80835CNNB-G	Q105,115	KTA1046-P
	30624MWPP74GP	Q111,501	2SB1869
	TD2923HQ	Q18	DTA124EUA
	NJM78M05DL1AZB	Q19	TPC811F

: M1F60-6063
14,206,
664,665
: DAP202U
: DAN202U
1,557,601,
: UDZS6.2B
: UDZS6.8B
: RM30LF104-102
: UDZS5.6B
: UDZS4.7B
: RB160L-40
: UDZS161B
: 1SS355
: DA204U
: UDZS9.1B
: AYRM16270MAAB
: IMSA-6801-E
605,613,
: STZ6.2N
: STZ6.8N
663
: AYRM16180M6AB
: AYRM16120M6AB


 VIDEO LINE
 SIGNAL LINE
 GND LINE
 +B LINE



DDX7032/7032M/712, DNX7120/7220/7320 (4/6)

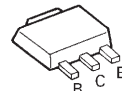
X34-584x-xx/598x-xx)

DEST. 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0	C72700	C72800	C72900	C73000	C73100	C73200	C73300	C73400	C73500	C73600	C73700	C73800	C73900	C74000	C74100	C74200	C74300	C74400	C74500	C74600	C74700	C74800	C74900	C75000	C75100	C75200	C75300	C75400	C75500	C75600	C75700	C75800	C75900	C76000	C76100	C76200	C76300	C76400	C76500	C76600	C76700	C76800	C76900	C77000	C77100	C77200	C77300	C77400	C77500	C77600	C77700	C77800	C77900	C78000	C78100	C78200	C78300	C78400	C78500	C78600	C78700	C78800	C78900	C79000	C79100	C79200	C79300	C79400	C79500	C79600	C79700	C79800	C79900	C80000	C80100	C80200	C80300	C80400	C80500	C80600	C80700	C80800	C80900	C81000	C81100	C81200	C81300	C81400	C81500	C81600	C81700	C81800	C81900	C82000	C82100	C82200	C82300	C82400	C82500	C82600	C82700	C82800	C82900	C83000	C83100	C83200	C83300	C83400	C83500	C83600	C83700	C83800	C83900	C84000	C84100	C84200	C84300	C84400	C84500	C84600	C84700	C84800	C84900	C85000	C85100	C85200	C85300	C85400	C85500	C85600	C85700	C85800	C85900	C86000	C86100	C86200	C86300	C86400	C86500	C86600	C86700	C86800	C86900	C87000	C87100	C87200	C87300	C87400	C87500	C87600	C87700	C87800	C87900	C88000	C88100	C88200	C88300	C88400	C88500	C88600	C88700	C88800	C88900	C89000	C89100	C89200	C89300	C89400	C89500	C89600	C89700	C89800	C89900	C90000	C90100	C90200	C90300	C90400	C90500	C90600	C90700	C90800	C90900	C91000	C91100	C91200	C91300	C91400	C91500	C91600	C91700	C91800	C91900	C92000	C92100	C92200	C92300	C92400	C92500	C92600	C92700	C92800	C92900	C93000	C93100	C93200	C93300	C93400	C93500	C93600	C93700	C93800	C93900	C94000	C94100	C94200	C94300	C94400	C94500	C94600	C94700	C94800	C94900	C95000	C95100	C95200	C95300	C95400	C95500	C95600	C95700	C95800	C95900	C96000	C96100	C96200	C96300	C96400	C96500	C96600	C96700	C96800	C96900	C97000	C97100	C97200	C97300	C97400	C97500	C97600	C97700	C97800	C97900	C98000	C98100	C98200	C98300	C98400	C98500	C98600	C98700	C98800	C98900	C99000	C99100	C99200	C99300	C99400	C99500	C99600	C99700	C99800	C99900	C100000	C100100	C100200	C100300	C100400	C100500	C100600	C100700	C100800	C100900	C101000	C101100	C101200	C101300	C101400	C101500	C101600	C101700	C101800	C101900	C102000	C102100	C102200	C102300	C102400	C102500	C102600	C102700	C102800	C102900	C103000	C103100	C103200	C103300	C103400	C103500	C103600	C103700	C103800	C103900	C104000	C104100	C104200	C104300	C104400	C104500	C104600	C104700	C104800	C104900	C105000	C105100	C105200	C105300	C105400	C105500	C105600	C105700	C105800	C105900	C106000	C106100	C106200	C106300	C106400	C106500	C106600	C106700	C106800	C106900	C107000	C107100	C107200	C107300	C107400	C107500	C107600	C107700	C107800	C107900	C108000	C108100	C108200	C108300	C108400	C108500	C108600	C108700	C108800	C108900	C109000	C109100	C109200	C109300	C109400	C109500	C109600	C109700	C109800	C109900	C110000	C110100	C110200	C110300	C110400	C110500	C110600	C110700	C110800	C110900	C111000	C111100	C111200	C111300	C111400	C111500	C111600	C111700	C111800	C111900	C112000	C112100	C112200	C112300	C112400	C112500	C112600	C112700	C112800	C112900	C113000	C113100	C113200	C113300	C113400	C113500	C113600	C113700	C113800	C113900	C114000	C114100	C114200	C114300	C114400	C114500	C114600	C114700	C114800	C114900	C115000	C115100	C115200	C115300	C115400	C115500	C115600	C115700	C115800	C115900	C116000	C116100	C116200	C116300	C116400	C116500	C116600	C116700	C116800	C116900	C117000	C117100	C117200	C117300	C117400	C117500	C117600	C117700	C117800	C117900	C118000	C118100	C118200	C118300	C118400	C118500	C118600	C118700	C118800	C118900	C119000	C119100	C119200	C119300	C119400	C119500	C119600	C119700	C119800	C119900	C120000	C120100	C120200	C120300	C120400	C120500	C120600	C120700	C120800	C120900	C121000	C121100	C121200	C121300	C121400	C121500	C121600	C121700	C121800	C121900	C122
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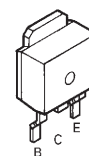
DTA143XE
DTA143ZE
DTA144EUA
DTC114YUA
2SA1576A
2SC4617



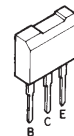
2SB1188
2SC3357-A



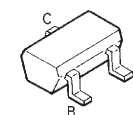
2SB1184



2SB1443



2SA1774
2SC4081

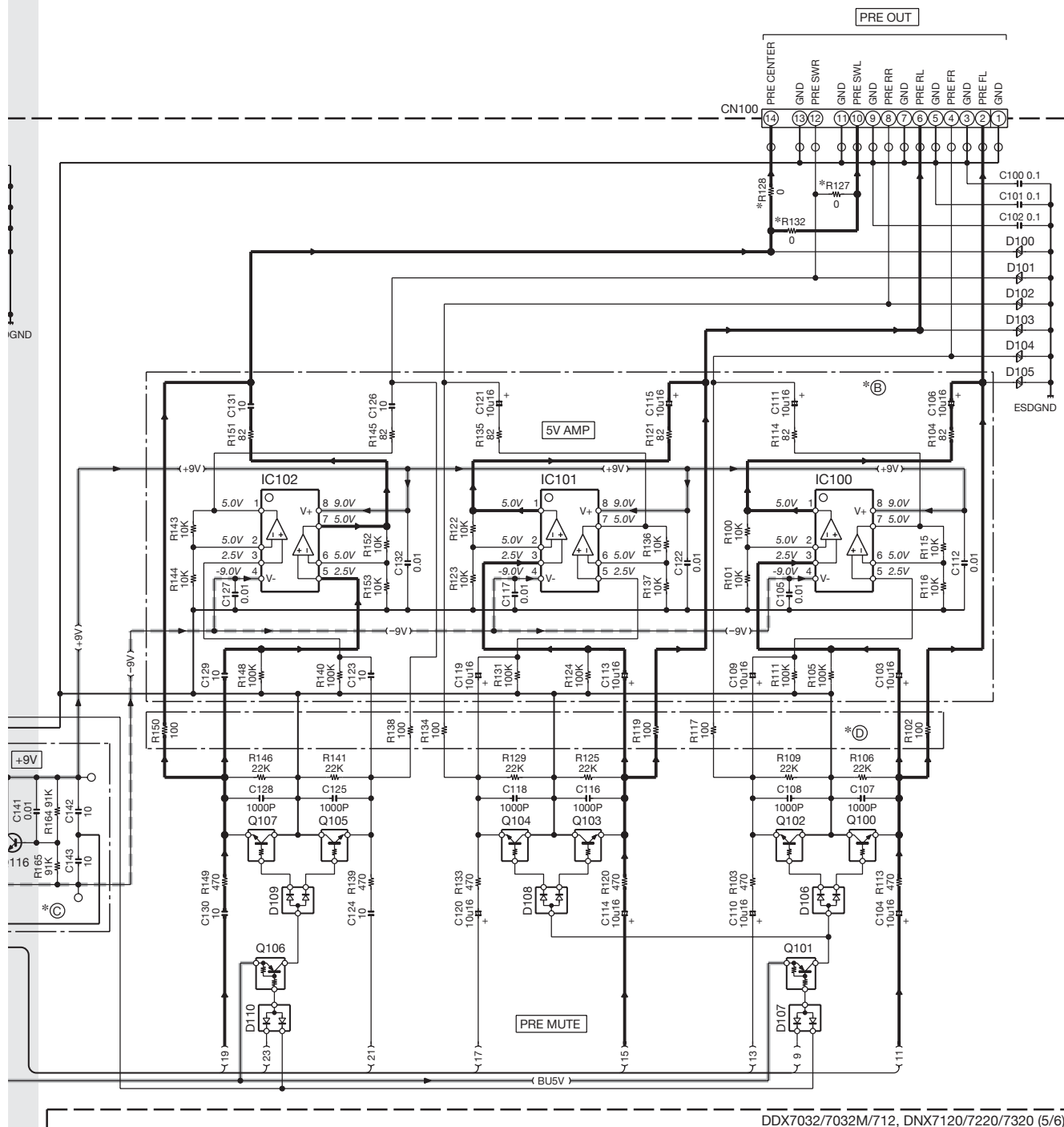


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△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.

DDX7032/7032M/712 DNX7120/7220/7320



DDX7032/7032M/712, DNX7120/7220/7320 (5/6)

IC100-102 : NJM4565V-ZB
IC103 : ICL7660SIBAZ

Q4,6,100,102-105,107
Q5,101,106 : DTC643TU

Q108 : DTA144EUA
Q109,202,208 : 2SB1443

Q110,112,114,116,201,
204,205,207,210,211 : 2SC4081

Q111,113,115,203,209 : 2SA1576A

Q200,206 : DTC114TUA

D1-3,18 : STZ6.2N
D4,6 : UDZS8.2B
D5,8 : UDZS6.2B
D7,9 : UDZS6.8B
D10-13 : AVRM16270MAAB
D14,15,100-105 : AVRM16180M6AB
D16,17,106-110 : DAP202U
D111 : UDZS11B
D112 : UDZS5.6B
D200-203 : 1SR154-400

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

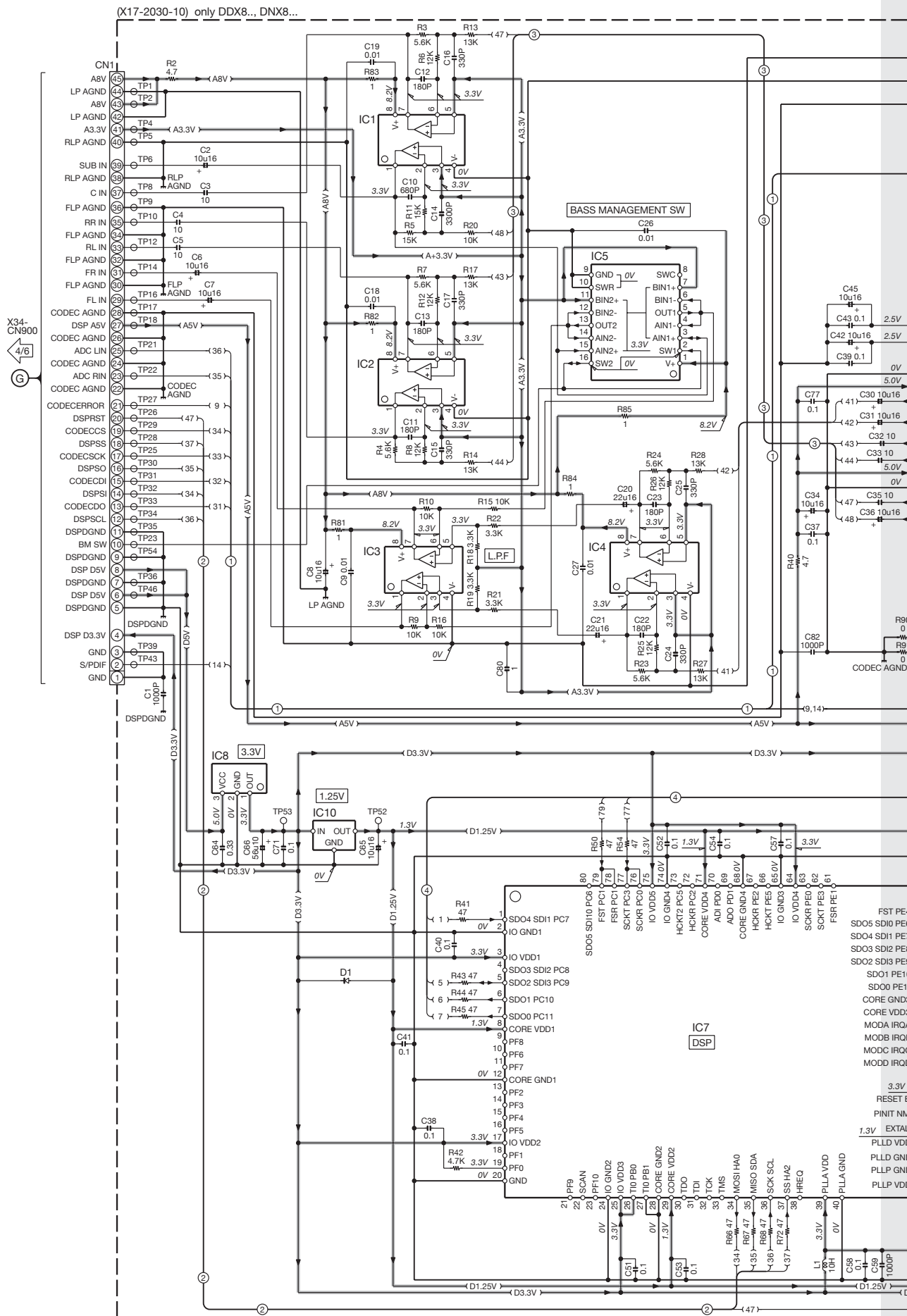
(X29-449x-xx)

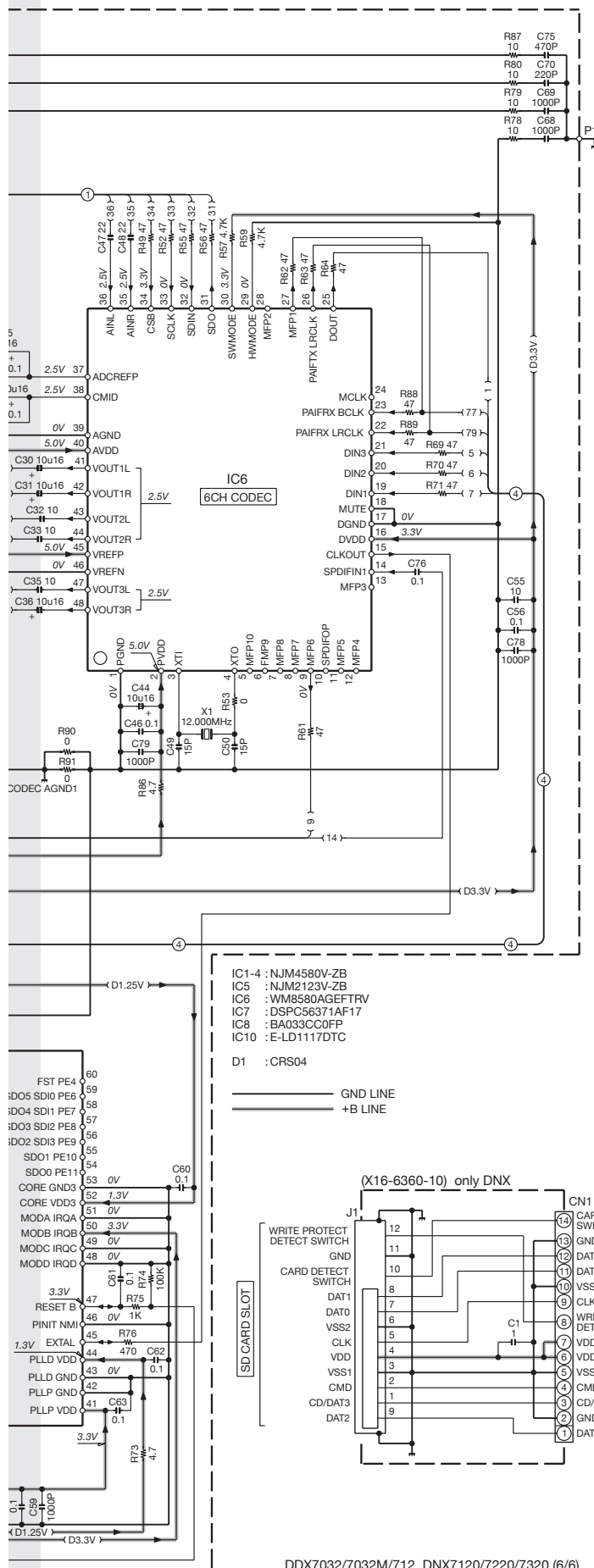
MODEL NAME	UNIT No.	(A)	(B)	(C)	(D)	C2	D2, 7-9,11	R5,12,18,21, 27,127,128	R132
DDX812	0-10	YES	—	YES	YES	YES	YES	—	—
DDX8022BT/BTY	0-10	YES	—	YES	YES	YES	YES	—	—
DDX8032BT/BTM	0-11	—	YES	—	—	—	—	YES	—
DDX712	0-11	—	YES	—	—	—	—	YES	—
DDX7032/M	0-10	YES	—	YES	YES	YES	YES	—	—
DNX8120	0-10	YES	—	YES	YES	YES	YES	—	—
DNX8220BT	0-11	—	YES	—	—	—	—	YES	—
DNX7120	0-11	—	YES	—	—	—	—	YES	—
DNX7220	0-11	—	YES	—	—	—	—	YES	—
DNX7320	3-01	—	YES	—	—	—	—	YES	—

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

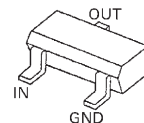
△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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

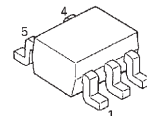




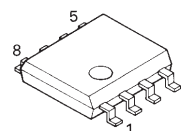
DDX7032/7032M/712, DNX7120/7220/7320 (6/6)

DTA114EUA
DTA114TUA
DTA124EUA
DTC124EUA
DTC144EUA

UMC2N



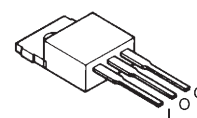
TA75W558FU-F



DAN202U



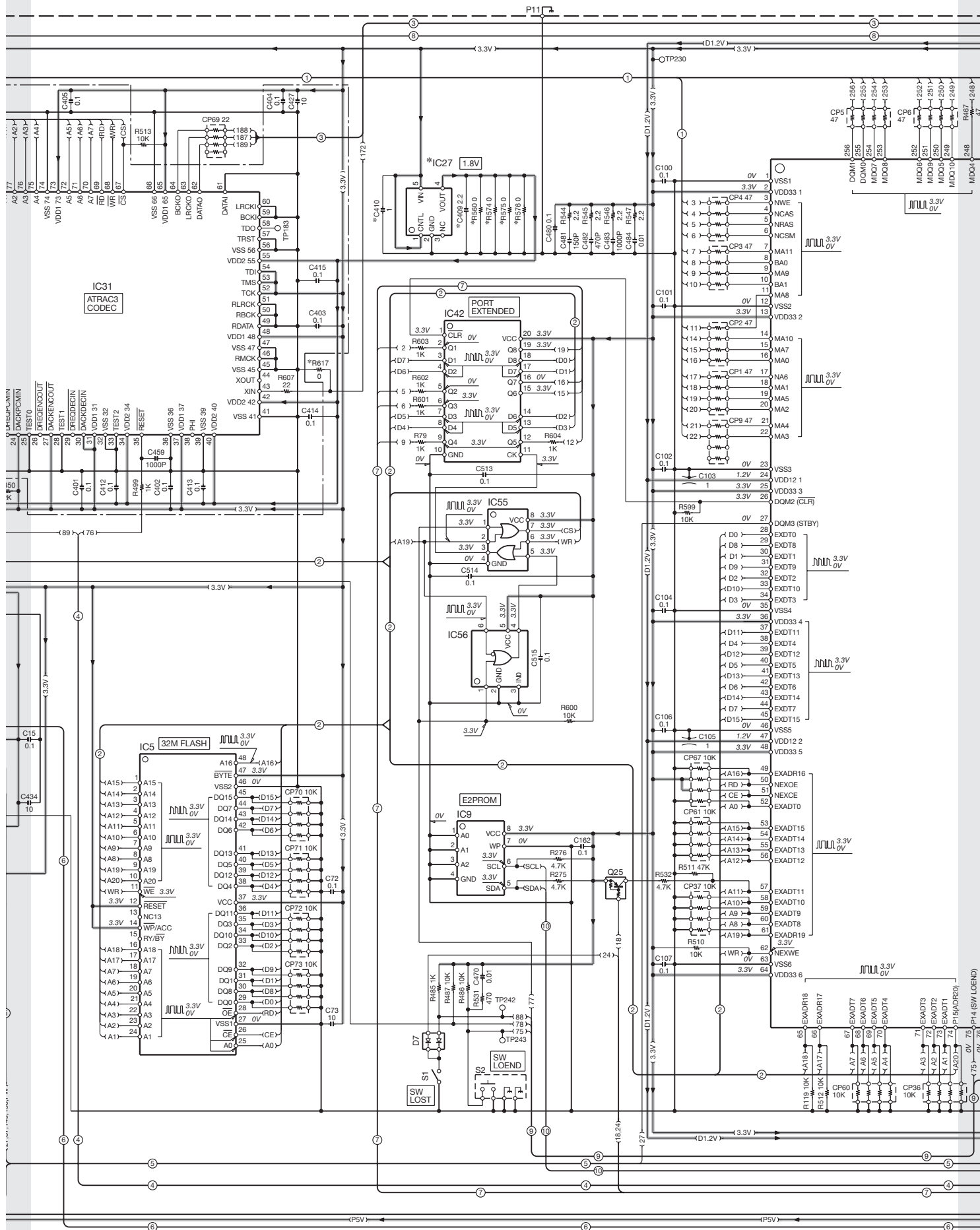
KTA1046-P



CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

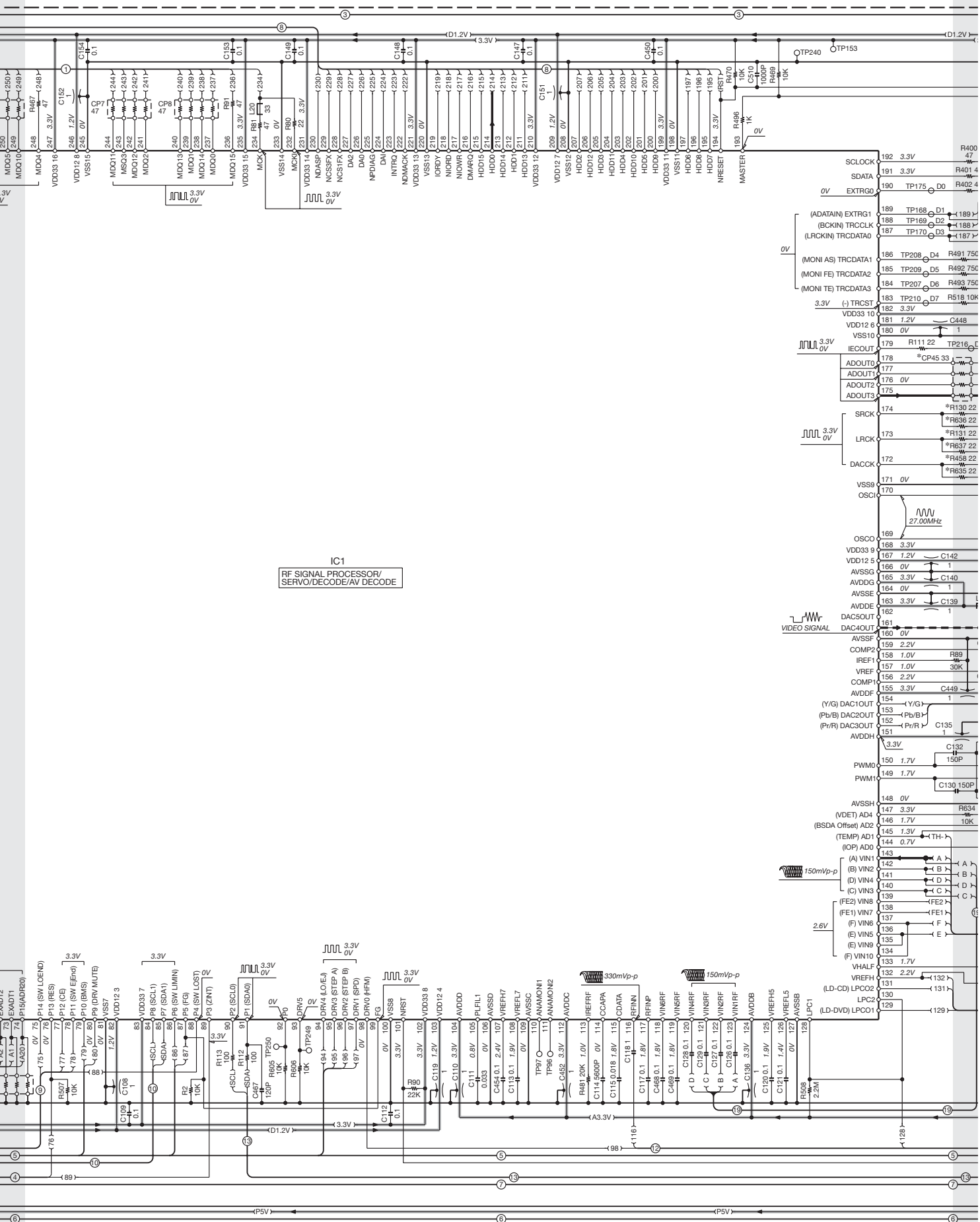
△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

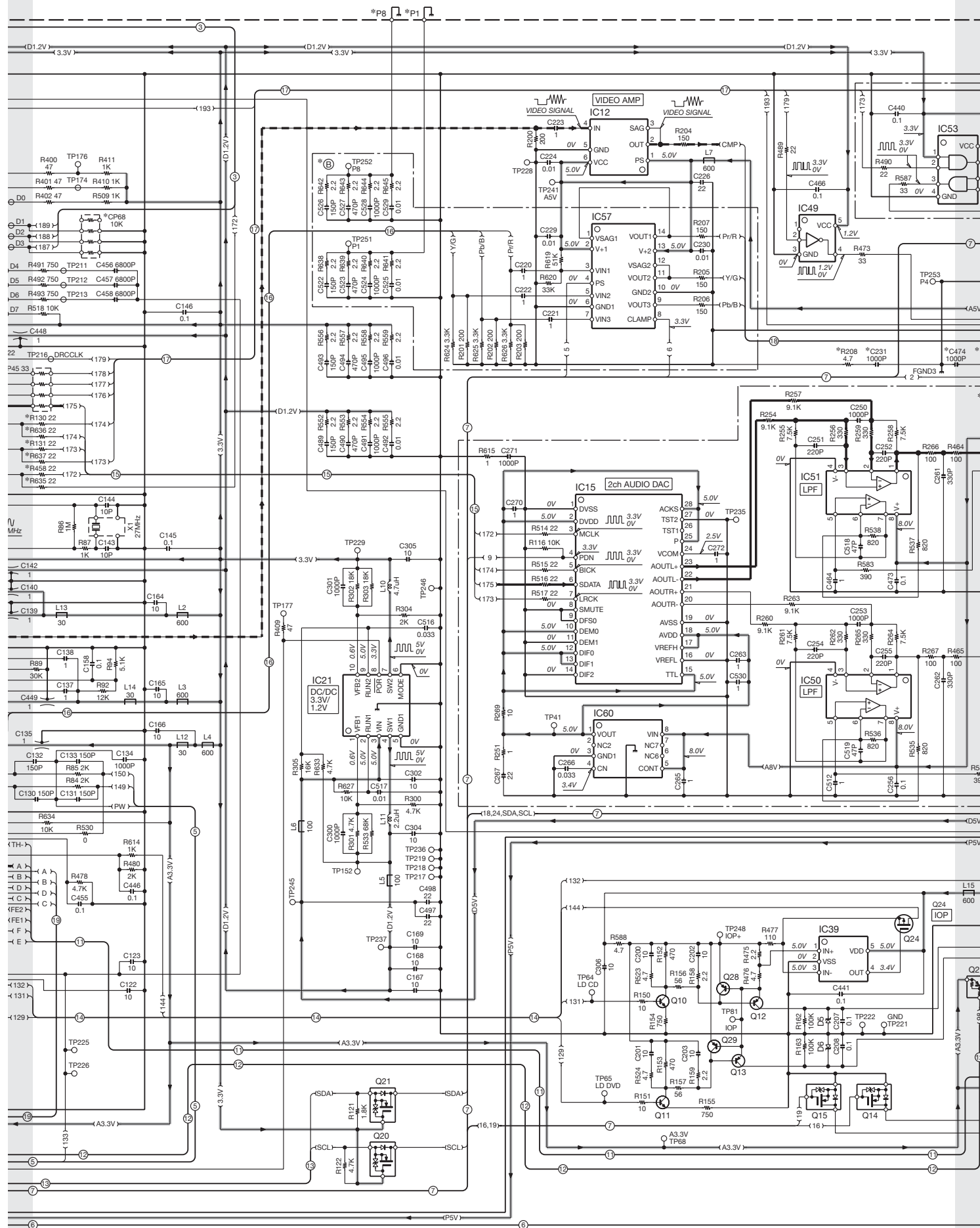
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

DDX7032/7032M/712
DNX7120/7220/7320

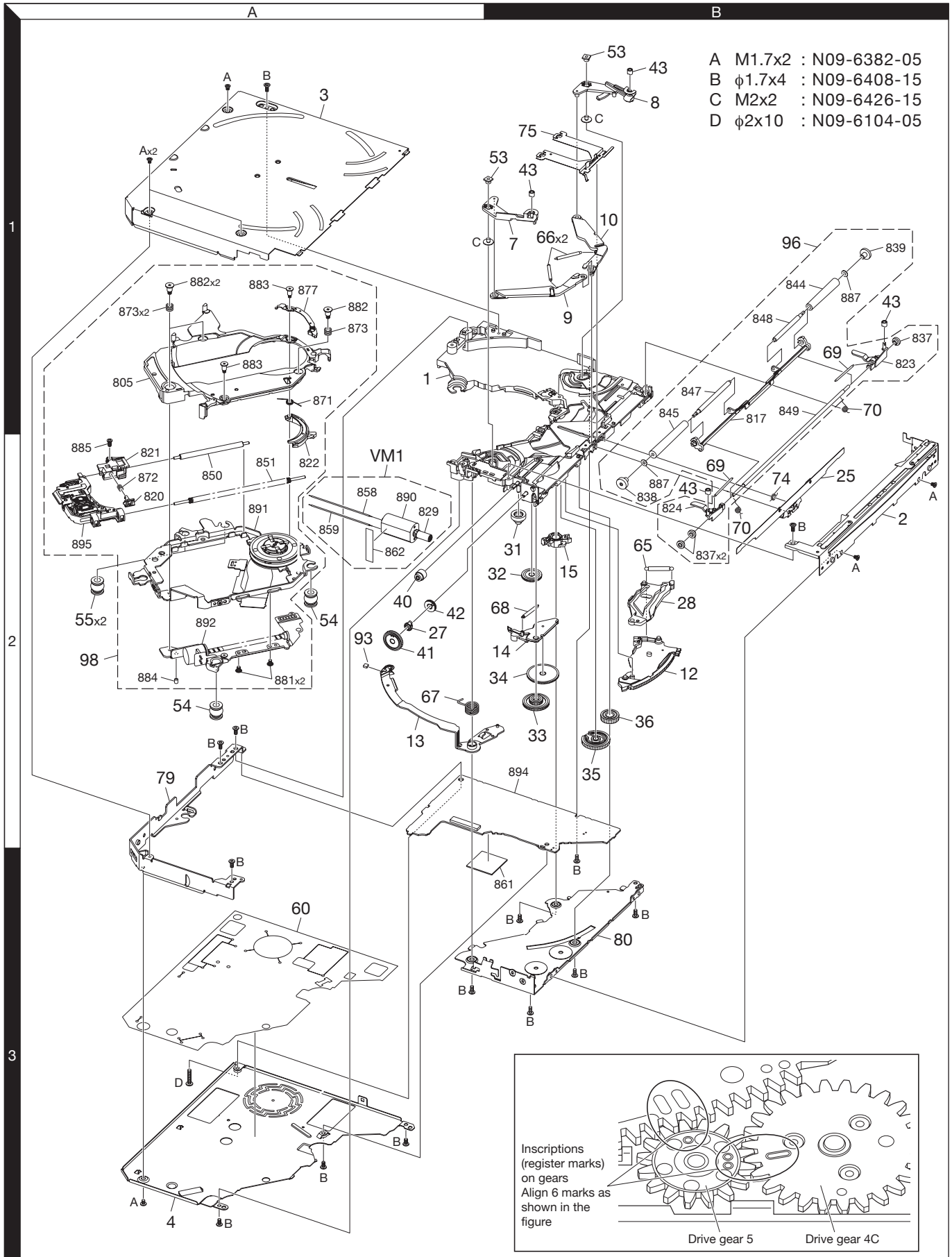
DDX7032/7032M/712

DNX7120/7220/7320



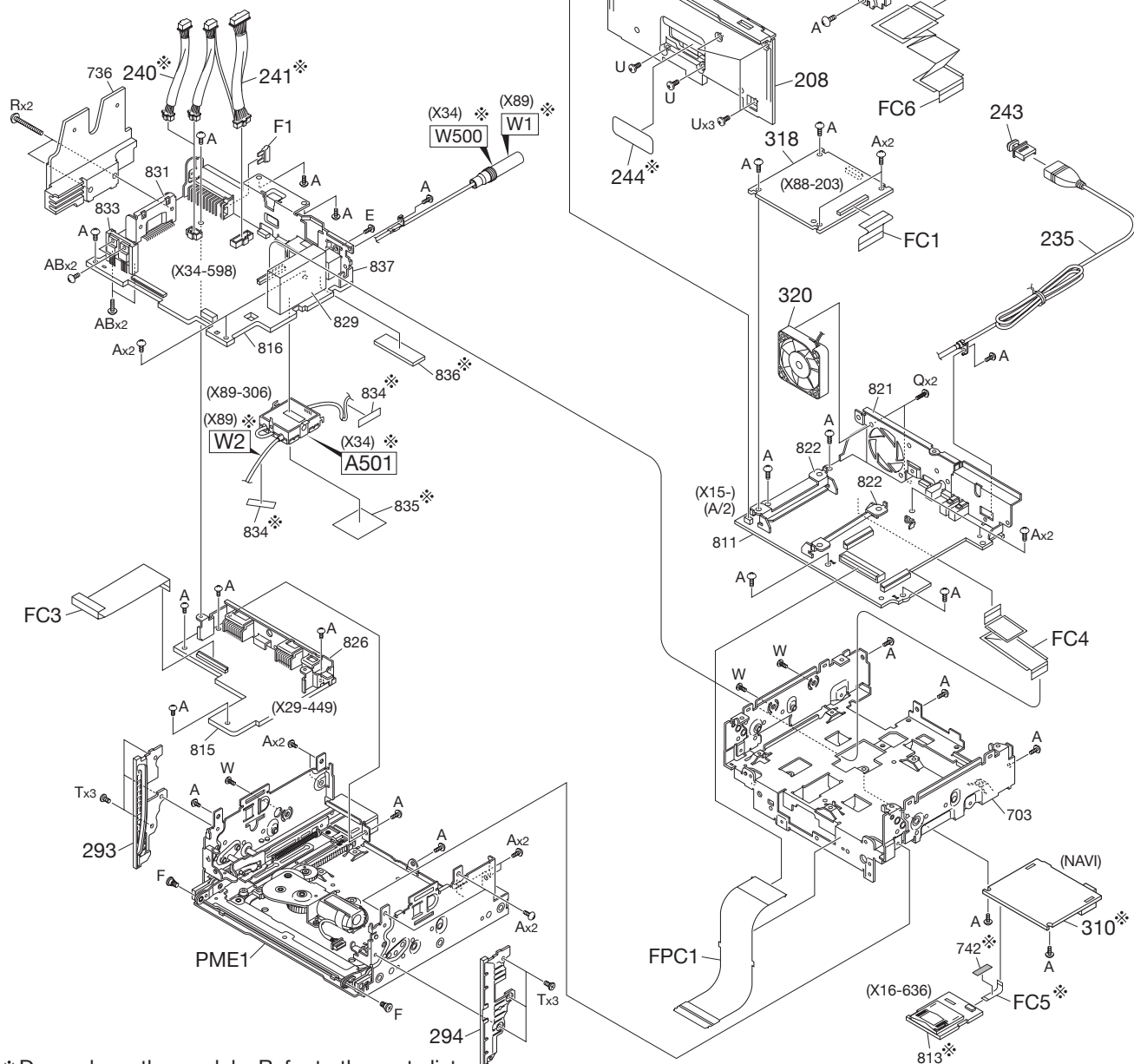
DDX7032/7032M/712
DNX7120/7220/7320

EXPLODED VIEW (DVD MECHANISM)



EXPLODED VIEW (UNIT)

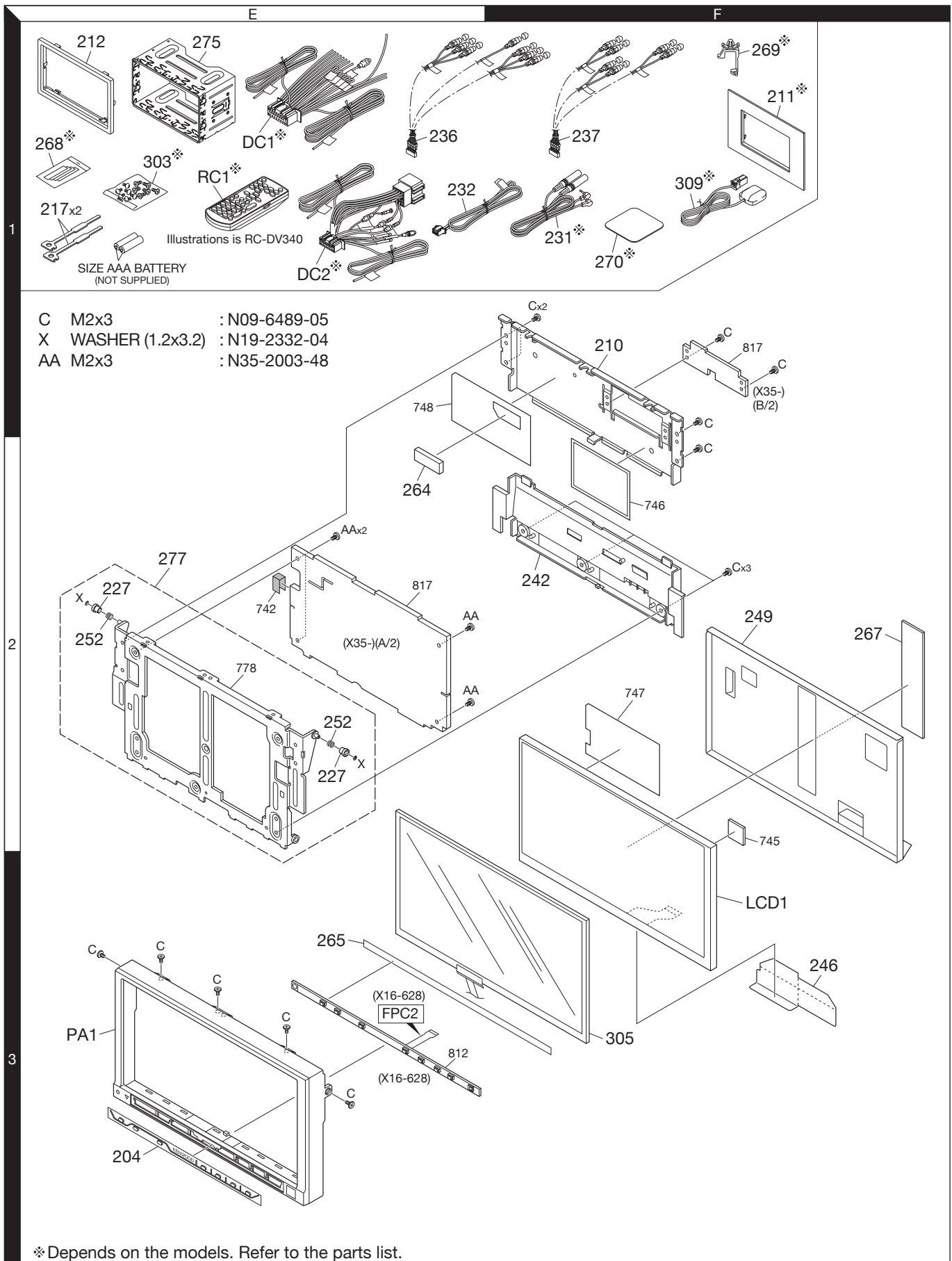
A	φ2.6x5	: N86-2605-48
E	M2.6x4	: N35-2604-43
F	PANEL SCREW	: N09-6490-05
Q	M3x11	: N09-6498-05
R	M2.6x27	: N09-6491-05
T	M2.6x5	: N09-6493-05
U	M2.6x6	: N09-6494-05
W	M3x5	: N09-6425-15
AB	φ3x8	: N09-6727-05



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

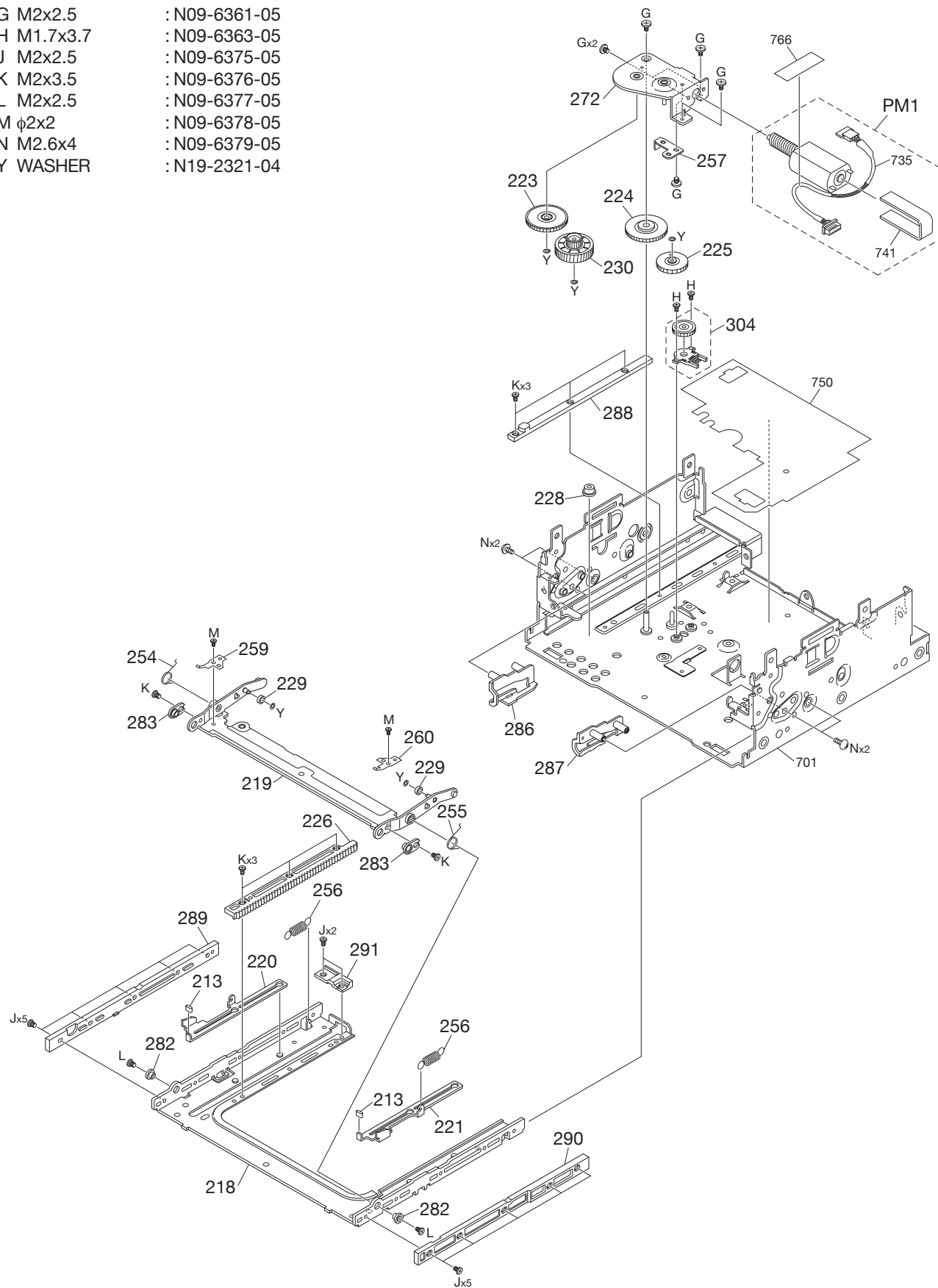
Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (PANEL)



EXPLODED VIEW (DRIVE MECHANISM)

G	M2x2.5	: N09-6361-05
H	M1.7x3.7	: N09-6363-05
J	M2x2.5	: N09-6375-05
K	M2x3.5	: N09-6376-05
L	M2x2.5	: N09-6377-05
M	φ2x2	: N09-6378-05
N	M2.6x4	: N09-6379-05
Y	WASHER	: N19-2321-04



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.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
DDX7032/7032M/712_DNX7120/7220/7320						213	3G		B09-0541-04	CAP	
204	3E	*	A21-6665-03	DRESSING PANEL		LCD1	3F		B38-1199-05	LCD	
208	1D		A22-3170-01	SUB PANEL ASSY	E2	217	1E		D10-4589-04	LEVER	
208	1D		A22-3170-01	SUB PANEL ASSY	K2M5X3	218	3G		D10-4895-22	SLIDER ASSY	
208	1D	*	A22-3174-01	SUB PANEL ASSY	K1M2M4	219	2G		D10-4897-13	ARM ASSY	
208	1D	*	A22-3174-01	SUB PANEL ASSY	X2R2	220	3G		D10-4899-03	LEVER	
209	1D		A52-0895-02	TOP PLATE		221	3G		D10-4900-03	LEVER	
210	1F		A46-1862-02	REAR COVER		223	1H		D13-2394-04	GEAR	
PA1	3E	*	A64-4509-01	PANEL ASSY	K1	224	1H		D13-2395-04	GEAR	
PA1	3E	*	A64-4510-01	PANEL ASSY	R2X2	225	1H		D13-2396-04	GEAR	
PA1	3E	*	A64-4511-01	PANEL ASSY	M2M4	226	3G		D13-2397-03	RACK (GEAR)	
PA1	3E		A64-4522-01	PANEL ASSY	K2	227	2E		D14-1024-04	ROLLER	
PA1	3E	*	A64-4523-01	PANEL ASSY	E2	228	2H		D14-1010-04	ROLLER	
PA1	3E	*	A64-4613-01	PANEL ASSY	M5	229	2G		D14-1011-14	ROLLER	
PA1	3E	*	A64-4614-01	PANEL ASSY	X3	230	1H		D19-0653-23	CLUTCH ASSY	
PME1	3C		A10-5300-41	CHASSIS ASSY		231	1F		E30-6785-05	CORD WITH PLUG (IPOD VIDEO)	K1R2K2
RC1	1E		A70-2082-15	REMOTE CONTROLLER AS (RC-DV330)	E2	232	1F	*	E30-6786-05	CORD WITH PLUG (RELAY)	
RC1	1E		A70-2082-15	REMOTE CONTROLLER AS (RC-DV330)	K2M5X3	235	2D		E30-6789-05	CORD WITH PLUG (USB)	
RC1	1E		A70-2083-15	REMOTE CONTROLLER AS (RC-DV340)	K1M2M4	236	1E		E30-6792-05	CORD WITH PINPLUG (AV)	
RC1	1E		A70-2083-15	REMOTE CONTROLLER AS (RC-DV340)	X2R2	237	1F		E30-6794-05	CORD WITH PINPLUG (PRE)	
-		*	B54-4647-00	INSTALLATION MANU (F.G.D.I.S.P)	E2	239	1D	*	E39-0915-05+	WIRING HARNESS	
-		*	B54-4653-00	INSTALLATION MANU (ENG.FRE.SPA)	K1R2K2	240	2C	*	E39-0983-15	WIRING HARNESS	K1M2M4
-		*	B54-4654-00	INSTALLATION MANUAL (POR.)	R2	240	2C	*	E39-0983-15	WIRING HARNESS	X2R2
-		*	B54-4655-00	INSTALLATION MA (ENG.S-CHI.KOR)	M2X2M4	241	2C	*	E39-0986-15	WIRING HARNESS	E2
-		*	B54-4655-00	INSTALLATION MA (ENG.S-CHI.KOR)	M5X3	241	2C	*	E39-0986-15	WIRING HARNESS	K2M5X3
-		*	B54-4664-00	INSTALLATION MANUAL (ARA.)	M4	DC1	1E	*	E30-6824-05	DC CORD	K1M2M4
-		*	B59-1880-00	SUB-INSTRUCTION MANUAL		DC1	1E	*	E30-6824-05	DC CORD	M5X3
-		*	B64-4082-00	INSTRUCTION MANUAL (ENG.)	E2	DC1	1E	*	E30-6824-05	DC CORD	X2R2K2
-		*	B64-4083-00	INSTRUCTION MANUAL (FRE.)	E2	DC2	1E	*	E30-6825-05	DC CORD	E2
-		*	B64-4084-00	INSTRUCTION MANUAL (GER.)	E2	FC1	2D	*	E39-1003-05	FLAT CABLE	
-		*	B64-4085-00	INSTRUCTION MANUAL (DUT.)	E2	FC3	3C	*	E39-1024-05	FLAT CABLE	
-		*	B64-4086-00	INSTRUCTION MANUAL (ITA.)	E2	FC4	3D	*	E39-1025-05	FLAT CABLE	
-		*	B64-4087-00	INSTRUCTION MANUAL (SPA.)	E2	FC5	3D	*	E39-1026-05	FLAT CABLE	E2
-		*	B64-4088-00	INSTRUCTION MANUAL (POR.)	E2	FC5	3D	*	E39-1026-05	FLAT CABLE	K2M5X3
-		*	B64-4103-00	INSTRUCTION MANUAL (ENG.)	K1R2K2	FC6	2D	*	E39-1027-05	FLAT CABLE	
-			B64-4104-00	INSTRUCTION MANUAL (FRE.)	K1K2	242	2F		F07-1192-02	COVER	
-			B64-4105-00	INSTRUCTION MANUAL (SPA.)	K1R2K2	243	2D		F09-2929-04	CAP (USB)	
-		*	B64-4106-00	INSTRUCTION MANUAL (POR.)	R2	244	2D		F09-2932-04	SHEET	K1M2M4
-		*	B64-4107-00	INSTRUCTION MANUAL (ENG.)	M2X2M4	244	2D		F09-2932-04	SHEET	X2R2
-		*	B64-4107-00	INSTRUCTION MANUAL (ENG.)	M5X3	246	3F		F09-2958-04	SHEET	
-		*	B64-4108-00	INSTRUCTION MANUAL (S-CHI.)	M2M5	249	2F		F20-2432-03	INSULATING SHEET	
-		*	B64-4109-00	INSTRUCTION MANUAL (KOR.)	M2	△ F1	2C		F52-0007-05	FUSE (MINI BLADE TYPE) 15A	
-		*	B64-4110-00	INSTRUCTION MANUAL (ENG.)	K2	252	2E		G01-4659-04	COMPRESSION SPRING	
-		*	B64-4111-00	INSTRUCTION MANUAL (FRE.SPA.)	K2	254	2G		G01-3288-04	TORSION COIL SPRING	
-		*	B64-4112-00	INSTRUCTION MANUAL (ENG.)	E2	255	2G		G01-3289-04	TORSION COIL SPRING	
-		*	B64-4113-00	INSTRUCTION MANUA (FRE.GER.DUT)	E2	256	3G		G01-3290-04	EXTENSION SPRING	
-		*	B64-4114-00	INSTRUCTION MANUA (ITA.SPA.POR)	E2	257	1H		G02-1539-04	FLAT SPRING	
-		*	B64-4172-00	INSTRUCTION MANUAL (ARA.)	M4	259	2G		G02-1544-04	FLAT SPRING	
-		*	B64-4173-00	INSTRUCTION MANUAL (ENG.S-CHI.)	M5	260	2G		G02-1545-04	FLAT SPRING	
-		*	B64-4180-00	INSTRUCTION MANUAL (ENG.)	X3	264	2E		G16-1688-04	SHEET	
211	1F		B07-3172-12	ESCUTCHEON	K1M2M4	265	3E	*	G16-1713-14	SHEET	
211	1F		B07-3172-12	ESCUTCHEON	M5X3	267	2F		G16-1695-04	SHEET	
211	1F		B07-3172-12	ESCUTCHEON	X2R2K2	-			H54-4312-03	ITEM CARTON CASE	K2
212	1E		B07-3224-01	ESCUTCHEON							

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

DDX7032/7032M/712_DNX7120/7220/7320

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
-		*	H54-4313-03	ITEM CARTON CASE	E2
-		*	H54-4320-03	ITEM CARTON CASE	K1
-		*	H54-4321-03	ITEM CARTON CASE	R2
-		*	H54-4322-03	ITEM CARTON CASE	M2X2
-		*	H54-4375-03	ITEM CARTON CASE	M5X3
-		*	H54-4377-03	ITEM CARTON CASE	M4
268	1E		H30-0595-04	ADHESIVE DOUBLE-COATED TAPE	K1M2M4
268	1E		H30-0595-04	ADHESIVE DOUBLE-COATED TAPE	M5X3
268	1E		H30-0595-04	ADHESIVE DOUBLE-COATED TAPE	X2R2K2
269	1F		J11-0660-05	CLAMPER	K2
270	1F		J21-9867-04	MOUNTING HARDWARE (GPS-BOTTOM)	E2
270	1F		J21-9867-04	MOUNTING HARDWARE (GPS-BOTTOM)	K2M5X3
272	1H		J22-0444-13	MOUNTING HARDWARE ASSY	
275	1E		J22-0657-03	MOUNTING HARDWARE ASSY	
277	2E	*	J22-0751-02	MOUNTING HARDWARE ASSY	
282	3G		J31-1075-14	COLLAR (ARM COLLAR)	
283	2G		J31-1077-04	COLLAR (PANEL COLLAR)	
286	2H		J90-1124-13	GUIDE ASSY	
287	2H		J90-1126-13	GUIDE ASSY	
288	2H		J90-1128-03	RAIL	
289	3G		J90-1129-23	RAIL	
290	3H		J90-1130-23	RAIL	
291	3G		J90-1131-03	GUIDE	
293	3C		J90-1160-01	RAIL (L)	
294	3C		J90-1161-01	RAIL (R)	
FPC1	3D	*	J86-0051-05	FPC (LEAD FREE)	
303	1E		N99-1779-15	SCREW SET	K1M2M4
303	1E		N99-1779-15	SCREW SET	M5X3
303	1E		N99-1779-15	SCREW SET	X2R2K2
A	3C		N86-2605-48	BINDING HEAD TAPTITE SCREW	
AA	2E		N35-2003-48	BINDING HEAD MACHINE SCREW	
C	3E	*	N09-6489-05	MACHINE SCREW (M2.0X3.0)	
E	1D		N35-2604-43	BINDING HEAD MACHINE SCREW	
F	3C		N09-6490-05	STEPPED SCREW (PANEL SCREW)	
G	1H		N09-6361-05	MACHINE SCREW (M2X2.5)	
H	1H		N09-6363-05	MACHINE SCREW (M1.7X3.7)	
J	3G		N09-6375-05	MACHINE SCREW (M2X2.5)	
K	2G		N09-6376-05	MACHINE SCREW (M2X3.5)	
L	3G		N09-6377-05	MACHINE SCREW (M2X2.5)	
M	2G		N09-6378-05	TAPTITE SCREW (STITE 2X2)	
N	2H		N09-6379-05	MACHINE SCREW (M2.6X4 BIND)	
R	2C		N09-6491-05	MACHINE SCREW (M2.6X27)	
T	3C		N09-6493-05	MACHINE SCREW (M2.6X5)	
U	1D		N09-6494-05	MACHINE SCREW (M2.6X6)	
W	3C		N09-6425-15	MACHINE SCREW (M3.0X5)	
X	2E		N19-2332-04	FLAT WASHER (1.2X3.2X0.25)	
Y	1H		N19-2321-04	FLAT WASHER (1.6X4X0.25)	
304	1H		R31-0248-05	VARIABLE RESISTOR	
305	3F		S79-0854-05	SWITCH ASSY	
PM1	1H		T42-1322-14	MOTOR ASSY	
309	1F		W02-5305-05	ANTENNA MODULE (GPS-ANT)	E2

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
309	1F		W02-5305-05	ANTENNA MODULE (GPS-ANT)	K2M5X3
310	1D	*	W02-5307-05	NAVIGATION MODULE (NAVI-M)	M5X3
310	1D	*	W02-5309-05	NAVIGATION MODULE (NAVI-K)	K2
310	1D	*	W02-5310-15	NAVIGATION MODULE (NAVI-E)	E2
318	2D		X88-2030-11	DIGITAL I/O UNIT	
VME1	1D	*	X92-6180-01	DVD MECHANISM ASSY (DVS-8561V)	
VIDEO CONTROL UNIT (X15-117x-xx)					
D514			B30-1767-05	LED	
C1			C90-5670-05	ELECTRO	2200UF 16WV
C2,3			CK73GB1H104K	CHIP C	0.10UF K
C4			CK73FB0J106K	CHIP C	10UF K
C4			CK73FB0J106K	CHIP C	10UF K
C5			CK73GB1H103K	CHIP C	0.010UF K
C5			CK73GB1H103K	CHIP C	0.010UF K
C6			CK73GB1H104K	CHIP C	0.10UF K
C7,8			CK73GB1H103K	CHIP C	0.010UF K
C9			CE32BF1C221M	CHIP EL	220UF 16WV
C9			CE32BF1C221M	CHIP EL	220UF 16WV
C19			CE32BF1E101M	CHIP EL	100UF 25WV
C38			CK73GB1H103K	CHIP C	0.010UF K
C39			CK73GB1H104K	CHIP C	0.10UF K
C40			CE32BF1E101M	CHIP EL	100UF 25WV
C41			CK73GB1C104K	CHIP C	0.10UF K
C42			CK73GB0J105K	CHIP C	1.0UF K
C53			CE32BJ1C470M	CHIP EL	47UF 16WV
C57			CE32BJ1C100M	CHIP EL	10UF 16WV
C58			CK73GB1H103K	CHIP C	0.010UF K
C59			CK73FB1E474K	CHIP C	0.47UF K
C94			CK73GB1A105K	CHIP C	1.0UF K
C95			CK73GB1C104K	CHIP C	0.10UF K
C96			CE32BF1C221M	CHIP EL	220UF 16WV
C97			CE32BJ1C101M	CHIP EL	100UF 16WV
C102			CK73GB1A105K	CHIP C	1.0UF K
C115			CE32BJ1C100M	CHIP EL	10UF 16WV
C122			CK73GB1H103K	CHIP C	0.010UF K
C124,125			CK73GB1A105K	CHIP C	1.0UF K
C128			CK73GB1A105K	CHIP C	1.0UF K
C129			CK73FB0J106K	CHIP C	10UF K
C133			CK73GB1C104K	CHIP C	0.10UF K
C134			CK73GB1A105K	CHIP C	1.0UF K
C137			CK73FB1C105K	CHIP C	1.0UF K
C200,201			CC73GCH1H101J	CHIP C	100PF J
C202			CK73GB1C473K	CHIP C	0.047UF K
C203,204			CK73GB1H102K	CHIP C	1000PF K
C205			CC73GCH1H221J	CHIP C	220PF J
C206			CC73GCH1H101J	CHIP C	100PF J
C207			CC73GCH1H470J	CHIP C	47PF J
C208			CK73GB1H103K	CHIP C	0.010UF K
C209			CK73GB1H223K	CHIP C	0.022UF K
C210			CK73GB1H103K	CHIP C	0.010UF K
C212,213			CK73GB1H102K	CHIP C	1000PF K
C214			CK73GB1C473K	CHIP C	0.047UF K
C215			CC73GCH1H221J	CHIP C	220PF J

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-117x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C217			CK73GB1H102K	CHIP C 1000PF K		C284			CK73GB1H103K	CHIP C 0.010UF K	
C218			CK73GB1C473K	CHIP C 0.047UF K		C285,286			CK73GB1C104K	CHIP C 0.10UF K	
C219			CC73GCH1H221J	CHIP C 220PF J		C287			CK73GB1H102K	CHIP C 1000PF K	
C220			CC73GCH1H470J	CHIP C 47PF J		C288			CK73GB1H103K	CHIP C 0.010UF K	
C221			CK73GB1H103K	CHIP C 0.010UF K		C289			CK73GB1H104K	CHIP C 0.10UF K	
C222			CK73GB1H153K	CHIP C 0.015UF K		C290			CK73GB1H103K	CHIP C 0.010UF K	
C224,225			CK73GB1H102K	CHIP C 1000PF K		C291			C93-1367-05	CHIP C 10UF K	
C226			CC73GCH1H470J	CHIP C 47PF J		C293			CK73GB1H103K	CHIP C 0.010UF K	
C227			CK73GB1C473K	CHIP C 0.047UF K		C294			CE32AV0J221M	CHIP EL 220UF 6.3WV	
C228			CC73GCH1H221J	CHIP C 220PF J		C304-306			CK73EB1E106K	CHIP C 10UF K	
C230			CK73GB1H223K	CHIP C 0.022UF K		C401			CK73HB1E103K	CHIP C 0.010UF K	
C231			CK73GB1H102K	CHIP C 1000PF K		C403,404			CK73HB1A104K	CHIP C 0.10UF K	
C232			CK73FB0J106K	CHIP C 10UF K		C405			CK73HB1E103K	CHIP C 0.010UF K	
C233			CK73GB1C104K	CHIP C 0.10UF K		C406			CC73HCH1H220J	CHIP C 22PF J	
C234			CK73GB1H104K	CHIP C 0.10UF K		C407			CC73HCH1H180J	CHIP C 18PF J	
C235			CK73EB1E225K	CHIP C 2.2UF K		C408			CK73HB0J105K	CHIP C 1.0UF K	
C236-238			CK73GB1H104K	CHIP C 0.10UF K		C409-415			CK73HB1A104K	CHIP C 0.10UF K	
C239,240			CK73GB1H103K	CHIP C 0.010UF K		C416-419			CC73HCH1H471J	CHIP C 470PF J	
C241			CK73GB1H104K	CHIP C 0.10UF K		C420			CK73HB0J105K	CHIP C 1.0UF K	
C242			CK73FB0J106K	CHIP C 10UF K		C421-426			CC73HCH1H101J	CHIP C 100PF J	
C243			CK73GB1C104K	CHIP C 0.10UF K		C427,428			CC73HCH1H100D	CHIP C 10PF D	
C244			CK73GB1H104K	CHIP C 0.10UF K		C429,430			CK73FB0J106K	CHIP C 10UF K	
C245			CK73EB1E225K	CHIP C 2.2UF K		C433			CK73GB1H103K	CHIP C 0.010UF K	
C246-248			CK73GB1H104K	CHIP C 0.10UF K		C434,435			CK73GB1H222K	CHIP C 2200PF K	
C249,250			CK73GB1H103K	CHIP C 0.010UF K		C503			CK73GB1H104K	CHIP C 0.10UF K	E2
C251			CK73GB1H104K	CHIP C 0.10UF K		C503			CK73GB1H104K	CHIP C 0.10UF K	K2M5X3
C252			CK73GB1H103K	CHIP C 0.010UF K		C517			CK73FB0J106K	CHIP C 10UF K	
C253			CK73GB1H104K	CHIP C 0.10UF K		C518			CK73GB1H222K	CHIP C 2200PF K	
C254			CK73EB1E106K	CHIP C 10UF K		C520			CK73GB1H103K	CHIP C 0.010UF K	
C255			CK73GB1H103K	CHIP C 0.010UF K		C521			CE32BJ1C470M	CHIP EL 47UF 16WV	
C256			CK73GB1H104K	CHIP C 0.10UF K		C522,523			CK73GB0J475K	CHIP C 4.7UF K	
C257,258			CE32BQ1E680M	CHIP EL 68UF 25WV		C524			CK73GB1C104K	CHIP C 0.10UF K	
C259			CK73GB1H104K	CHIP C 0.10UF K		C526-528			CK73GB1A474K	CHIP C 0.47UF K	
C260			CK73GB1H103K	CHIP C 0.010UF K		C529			CK73GB1H102K	CHIP C 1000PF K	
C261			CK73EB1E106K	CHIP C 10UF K		C530			CK73GB1A474K	CHIP C 0.47UF K	
C262			CK73GB1H102K	CHIP C 1000PF K		C531			CK73GB1C104K	CHIP C 0.10UF K	
C263			CE32AV1A121M	CHIP EL 120UF 10WV		C533,534			CK73GB1H222K	CHIP C 2200PF K	
C264			CK73GB1H103K	CHIP C 0.010UF K		C535-538			CK73FB0J106K	CHIP C 10UF K	
C265,266			CK73GB1C104K	CHIP C 0.10UF K		C600			CK73GB1H103K	CHIP C 0.010UF K	
C267			CK73GB1H103K	CHIP C 0.010UF K		C601,602			CK73GB0J475K	CHIP C 4.7UF K	
C268			CE32AV0J221M	CHIP EL 220UF 6.3WV		C603-605			CK73GB0J105K	CHIP C 1.0UF K	
C269			CK73GB1H102K	CHIP C 1000PF K		C606			CK73GB0J475K	CHIP C 4.7UF K	
C270			CK73GB1H103K	CHIP C 0.010UF K		C607			CK73GB1H103K	CHIP C 0.010UF K	
C271			CK73GB1H104K	CHIP C 0.10UF K		C608			CK73GB0J475K	CHIP C 4.7UF K	
C272,273			CK73GB1H102K	CHIP C 1000PF K		C609,610			CK73GB0J105K	CHIP C 1.0UF K	
C274			CK73GB1H103K	CHIP C 0.010UF K		C611			CK73GB0J475K	CHIP C 4.7UF K	
C275			CK73GB1H104K	CHIP C 0.10UF K		C612			CK73GB0J105K	CHIP C 1.0UF K	
C276			CK73EB1E106K	CHIP C 10UF K		C613			CK73GB0J475K	CHIP C 4.7UF K	
C277			CK73GB1H103K	CHIP C 0.010UF K		C614-616			CK73GB1H103K	CHIP C 0.010UF K	
C278			CK73GB1H104K	CHIP C 0.10UF K		C618,619			CK73FB0J106K	CHIP C 10UF K	
C279			CE32BQ1E680M	CHIP EL 68UF 25WV		C620			CK73GB0J475K	CHIP C 4.7UF K	K1M2M4
C280			CE32BM1E470M	CHIP EL 47UF 25WV		C620			CK73GB0J475K	CHIP C 4.7UF K	X2R2
C281			CK73GB1H104K	CHIP C 0.10UF K		C621			CK73GB1C104K	CHIP C 0.10UF K	K1M2M4
C282			CK73GB1H102K	CHIP C 1000PF K		C621			CK73GB1C104K	CHIP C 0.10UF K	X2R2
C283			CE32AV0G331M	CHIP EL 330UF 4.0WV		C622			CK73FB0J106K	CHIP C 10UF K	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-117x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C623,624 C625 C627 C628 C628			CK73GB1C104K CK73GB1H222K CK73GB1H222K CK73GB1C104K CK73GB1C104K	CHIP C 0.10UF K CHIP C 2200PF K CHIP C 2200PF K CHIP C 0.10UF K CHIP C 0.10UF K	K1M2M4 X2R2
C630 C633 C634 C635 C636,637			CK73GB1H222K CK73GB1A105K CK73GB1H222K CK73GB1A105K CE32BJ1C220M	CHIP C 2200PF K CHIP C 1.0UF K CHIP C 2200PF K CHIP C 1.0UF K CHIP EL 22UF 16WV	
C638 C640,641 C650 C700-702 C703,704			CK73GB1A105K CK73GB1A105K CK73GB1H222K CK73GB1H103K CK73GB1C104K	CHIP C 1.0UF K CHIP C 1.0UF K CHIP C 2200PF K CHIP C 0.010UF K CHIP C 0.10UF K	
C705 C706,707 C708 C709 C710,711			CK73GB1H103K CK73GB1C104K CK73GB1H222K CE32BF1E101M CK73GB1H103K	CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 2200PF K CHIP EL 100UF 25WV CHIP C 0.010UF K	
C712 C713-716 C850 C851-854 C855			CK73FB0J106K CK73GB1H222K CK73FB1A225K CK73GB1C104K CK73FB0J106K	CHIP C 10UF K CHIP C 2200PF K CHIP C 2.2UF K CHIP C 0.10UF K CHIP C 10UF K	
C856 C857 C858 C859,860 C861			CK73GB1C104K CK73FB0J106K CE32BF1C101M CK73GB1C104K CC73GC1H101J	CHIP C 0.10UF K CHIP C 10UF K CHIP EL 100UF 16WV CHIP C 0.10UF K CHIP C 100PF J	
C862-868 C869 C870-873			CK73GB1H103K CK73FB0J106K CK73GB1H222K	CHIP C 0.010UF K CHIP C 10UF K CHIP C 2200PF K	
CN3 CN500 CN501 CN502 CN700		*	E41-2771-05 E41-2248-05 E41-1476-05 E41-1486-05 E41-2608-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY FLAT CABLE CONNECTOR	
CN701 CN850 CN851 CN852 J501			E41-2979-05 E41-2735-05 E41-2980-05 E41-2979-05 E11-0625-05	FLAT CABLE CONNECTOR PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PHONE JACK (LGY6502-0900)	
J502 J503			E11-0656-05 E11-0625-05	PHONE JACK (3.5D YELLOW) PHONE JACK (LGY6502-0900)	
320 F3 F700	2D		F09-2923-05 F53-0297-05 F53-0297-05	FAN FUSE (UL,CSA) 1.6A FUSE (UL,CSA) 1.6A	
L1 L2 L3 L4 L4		*	L33-2358-05 L41-4795-33 L33-2369-05 L33-2475-05 L33-2475-05	CHOKE COIL SMALL FIXED INDUCTOR (4.7U) CHOKE COIL 10UH CHOKE COIL 22UH CHOKE COIL 22UH	E2 K2M5X3
L200 L201,202 L203 L204 L205,206			L33-2370-05 L33-2369-05 L33-2455-05 L33-2369-05 L33-2455-05	CHOKE COIL 10UH CHOKE COIL 10UH CHOKE COIL 10UH CHOKE COIL 10UH CHOKE COIL 10UH	
L207 L401,402 L850 X400 X401		*	L33-2417-05 L92-0332-05 L33-2369-05 L77-2921-05 L77-2975-05	CHOKE COIL 10UH CHIP FERRITE CHOKE COIL 10UH CRYSTAL RESONATOR (32.768KHZ) CRYSTAL RESONATOR (11.0592MHZ)	
Q	2D		N09-6498-05	MACHINE SCREW (M3.0X11)	
CP401,402 CP404 CP406 R1 R2			RK74HB1J101J RK74HB1J101J RK74HB1J101J RK73GH2A104D RK73GH2A513D	CHIP-COM 100 J 1/16W CHIP-COM 100 J 1/16W CHIP-COM 100 J 1/16W CHIP R 100K D 1/10W CHIP R 51K D 1/10W	
R3 R4,5 R6 R7 R8			RK73GH2A333D RK73GH2A334D RK73GB2A823J RK73GB2A103J RK73GH2A113D	CHIP R 33K D 1/10W CHIP R 330K D 1/10W CHIP R 82K J 1/10W CHIP R 10K J 1/10W CHIP R 11K D 1/10W	
R9,10 R11 R12 R13 R14,15			RK73GB2A224J RK73GH2A104D RK73GB2A100J RK73GH2A683D RK73GB2A224J	CHIP R 220K J 1/10W CHIP R 100K D 1/10W CHIP R 10 J 1/10W CHIP R 68K D 1/10W CHIP R 220K J 1/10W	
R16 R17 R18 R20 R23			RK73GB2A000J RK73GB2A224J RK73GB2A333J RK73GB2A100J RK73GB2A224J	CHIP R 0.0 J 1/10W CHIP R 220K J 1/10W CHIP R 33K J 1/10W CHIP R 10 J 1/10W CHIP R 220K J 1/10W	
R24 R25 R34 R35 R38			RK73GB2A304J RK73GB2A224J RK73GB2A202J RK73GB2A101J RK73GB2A154J	CHIP R 300K J 1/10W CHIP R 220K J 1/10W CHIP R 2.0K J 1/10W CHIP R 100 J 1/10W CHIP R 150K J 1/10W	
R43 R44 R50 R57 R58			RK73GB2A164J RK73FB2B000J RK73GB2A224J RK73GB2A563J RK73GB2A224J	CHIP R 160K J 1/10W CHIP R 0.0 J 1/8W CHIP R 220K J 1/10W CHIP R 56K J 1/10W CHIP R 220K J 1/10W	
R65 R66 R67 R69 R70			RK73GB2A302J RK73GB2A101J RK73FB2B000J RK73GB2A332J RK73GH2A113D	CHIP R 3.0K J 1/10W CHIP R 100 J 1/10W CHIP R 0.0 J 1/8W CHIP R 3.3K J 1/10W CHIP R 11K D 1/10W	
R71 R72 R73 R74 R75			RK73GB2A272J RK73FB2B000J RK73GH2A113D RK73GB2A000J RK73GB2A302J	CHIP R 2.7K J 1/10W CHIP R 0.0 J 1/8W CHIP R 11K D 1/10W CHIP R 0.0 J 1/10W CHIP R 3.0K J 1/10W	
R76 R77 R87			RK73GB2A101J RK73GB2A000J RK73GB2A000J	CHIP R 100 J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-117x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R88			RK73GB2A332J	CHIP R 3.3K J 1/10W		R306,307			R92-5158-05	CHIP R 0.022 J 1/4W	
R90			RK73GH2A113D	CHIP R 11K D 1/10W		R308-311			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R91			RK73GB2A272J	CHIP R 2.7K J 1/10W		R312			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R92			RK73GH2A113D	CHIP R 11K D 1/10W		R314			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R93			RK73GB2A000J	CHIP R 0.0 J 1/10W		R400,401			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R94			RK73GB2A473J	CHIP R 47K J 1/10W		R402			RK73HB1J103J	CHIP R 10K J 1/16W	
R95			RK73GB2A562J	CHIP R 5.6K J 1/10W		R403			RK73HB1J473J	CHIP R 47K J 1/16W	
R96			RK73GB2A472J	CHIP R 4.7K J 1/10W		R406			RK73HB1J103J	CHIP R 10K J 1/16W	K1M2M4
R97			RK73GB2A561J	CHIP R 560 J 1/10W		R406			RK73HB1J103J	CHIP R 10K J 1/16W	X2R2
R98			RK73GB2A000J	CHIP R 0.0 J 1/10W		R406,407			RK73HB1J103J	CHIP R 10K J 1/16W	E2
R100			RK73GB2A000J	CHIP R 0.0 J 1/10W		R406,407			RK73HB1J103J	CHIP R 10K J 1/16W	K2M5X3
R101			RK73GB2A202J	CHIP R 2.0K J 1/10W		R408-410			RK73HB1J103J	CHIP R 10K J 1/16W	R2X2
R103			RK73GB2A101J	CHIP R 100 J 1/10W		R408-411			RK73HB1J103J	CHIP R 10K J 1/16W	M2M4
R105			RK73GB2A000J	CHIP R 0.0 J 1/10W		R408,409			RK73HB1J103J	CHIP R 10K J 1/16W	K1
R200			RK73GB2A000J	CHIP R 0.0 J 1/10W		R409			RK73HB1J103J	CHIP R 10K J 1/16W	K2
R203-205			RK73GH2A561D	CHIP R 560 D 1/10W		R409-411			RK73HB1J103J	CHIP R 10K J 1/16W	M5
R208			RK73GB2A000J	CHIP R 0.0 J 1/10W		R409,410			RK73HB1J103J	CHIP R 10K J 1/16W	E2X3
R210			RK73GB2A333J	CHIP R 33K J 1/10W		R411			RK73HB1J103J	CHIP R 10K J 1/16W	K1K2
R215			RK73GB2A683J	CHIP R 68K J 1/10W		R411			RK73HB1J303J	CHIP R 30K J 1/16W	X2X3
R218			RK73GB2A103J	CHIP R 10K J 1/10W		R411			RK73HB1J332J	CHIP R 3.3K J 1/16W	E2
R222			RK73GH2A622D	CHIP R 6.2K D 1/10W		R412			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R233			RK73GH2A912D	CHIP R 9.1K D 1/10W		R413,414			RK73HB1J101J	CHIP R 100 J 1/16W	
R234			RK73GH2A333D	CHIP R 33K D 1/10W		R416-418			RK73HB1J473J	CHIP R 47K J 1/16W	
R238			RK73GH2A561D	CHIP R 560 D 1/10W		R419			RK73GB2A101J	CHIP R 100 J 1/10W	
R240			RK73GB2A000J	CHIP R 0.0 J 1/10W		R420			RK73HB1J473J	CHIP R 47K J 1/16W	
R243			RK73GB2A000J	CHIP R 0.0 J 1/10W		R422			RK73HB1J473J	CHIP R 47K J 1/16W	
R245			RK73GH2A681D	CHIP R 680 D 1/10W		R423			RK73HB1J104J	CHIP R 100K J 1/16W	
R246			RK73GH2A562D	CHIP R 5.6K D 1/10W		R425			RK73HB1J331J	CHIP R 330 J 1/16W	
R247			RK73GH2A333D	CHIP R 33K D 1/10W		R426			RK73HB1J223J	CHIP R 22K J 1/16W	
R248-250			RK73GB2A000J	CHIP R 0.0 J 1/10W		R427-433			RK73HB1J101J	CHIP R 100 J 1/16W	
R257			RK73GH2A561D	CHIP R 560 D 1/10W		R434			RK73HB1J473J	CHIP R 47K J 1/16W	
R258			RK73GB2A683J	CHIP R 68K J 1/10W		R435-437			RK73HB1J101J	CHIP R 100 J 1/16W	
R266			RK73GB2A103J	CHIP R 10K J 1/10W		R438			RK73HB1J123J	CHIP R 12K J 1/16W	
R268			RK73GH2A103D	CHIP R 10K D 1/10W		R439			RK73HB1J103J	CHIP R 10K J 1/16W	
R273			RK73GH2A333D	CHIP R 33K D 1/10W		R440			RK73HB1J473J	CHIP R 47K J 1/16W	
R274,275			RK73GB2A000J	CHIP R 0.0 J 1/10W		R441-452			RK73HB1J101J	CHIP R 100 J 1/16W	
R276			RK73GH2A391D	CHIP R 390 D 1/10W		R453,454			RK73HB1J473J	CHIP R 47K J 1/16W	
R277			RK73GB2A683J	CHIP R 68K J 1/10W		R455-457			RK73HB1J101J	CHIP R 100 J 1/16W	
R278			RK73GH2A562D	CHIP R 5.6K D 1/10W		R458			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R280			RK73GH2A333D	CHIP R 33K D 1/10W		R459			RK73HB1J101J	CHIP R 100 J 1/16W	
R281			RK73GB2A000J	CHIP R 0.0 J 1/10W		R460			RK73HB1J473J	CHIP R 47K J 1/16W	
R283,284			RK73GB2A000J	CHIP R 0.0 J 1/10W		R461			RK73HB1J104J	CHIP R 100K J 1/16W	
R285			RK73GB2A220J	CHIP R 22 J 1/10W		R462-464			RK73HB1J101J	CHIP R 100 J 1/16W	
R286,287			RK73GB2A000J	CHIP R 0.0 J 1/10W		R465			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R288			RK73EB2E100J	CHIP R 10 J 1/4W		R466			RK73HB1J104J	CHIP R 100K J 1/16W	
R289,290			RK73GB2A220J	CHIP R 22 J 1/10W		R467,468			RK73HB1J473J	CHIP R 47K J 1/16W	
R291			RK73GB2A000J	CHIP R 0.0 J 1/10W		R469			RK73HB1J103J	CHIP R 10K J 1/16W	
R293			RK73EB2E100J	CHIP R 10 J 1/4W		R470-473			RK73HB1J101J	CHIP R 100 J 1/16W	
R294			RK73GB2A000J	CHIP R 0.0 J 1/10W		R474			RK73GB2A100J	CHIP R 10 J 1/10W	
R295			RK73GB2A220J	CHIP R 22 J 1/10W		R475			RK73HB1J101J	CHIP R 100 J 1/16W	
R296,297			R92-5160-05	CHIP R 0.047 J 1/4W		R476			RK73HB1J103J	CHIP R 10K J 1/16W	
R298,299			RK73EB2E100J	CHIP R 10 J 1/4W		R477			RK73HB1J152J	CHIP R 1.5K J 1/16W	
R300			R92-5158-05	CHIP R 0.022 J 1/4W		R478-480			RK73HB1J101J	CHIP R 100 J 1/16W	
R302			RK73EB2E100J	CHIP R 10 J 1/4W		R481			RK73HB1J104J	CHIP R 100K J 1/16W	
R304			R92-5159-05	CHIP R 0.033 J 1/4W		R482			RK73HB1J000J	CHIP R 0.0 J 1/16W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-117x-xx)

Ref. No.	Added	New	Parts No.	Description	Destination
R483-485 R486 R490 R491,492 R496			RK73HB1J101J RK73HB1J000J RK73HB1J104J RK73HB1J101J RK73HB1J104J	CHIP R 100 J 1/16W CHIP R 0.0 J 1/16W CHIP R 100K J 1/16W CHIP R 100 J 1/16W CHIP R 100K J 1/16W	
R497,498 R499 R502 R503 R503			RK73HB1J473J RK73HB1J103J RK73GB2A101J RK73GB2A100J RK73GB2A100J	CHIP R 47K J 1/16W CHIP R 10K J 1/16W CHIP R 100 J 1/10W CHIP R 10 J 1/10W CHIP R 10 J 1/10W	E2 K2M5X3
R505 R505 R506 R506 R507			RK73GB2A104J RK73GB2A104J RK73GB2A101J RK73GB2A101J RK73GB2A100J	CHIP R 100K J 1/10W CHIP R 100K J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 10 J 1/10W	E2 K2M5X3 E2 K2M5X3
R518 R519 R520 R521 R522			RK73GB2A131J RK73GB2A222J RK73GB2A000J RK73GB2A101J RK73GB2A473J	CHIP R 130 J 1/10W CHIP R 2.2K J 1/10W CHIP R 0.0 J 1/10W CHIP R 100 J 1/10W CHIP R 47K J 1/10W	
R523 R523 R524,525 R527 R528			RK73GB2A104J RK73GB2A104J RK73GB2A101J RK73EB2E101J RK73FB2B101J	CHIP R 100K J 1/10W CHIP R 100K J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/4W CHIP R 100 J 1/8W	E2 K2M5X3
R529 R530-532 R533 R534 R535			RK73GB2A750J RK73EB2E100J RK73GB2A223J RK73GB2A473J RK73GB2A101J	CHIP R 75 J 1/10W CHIP R 10 J 1/4W CHIP R 22K J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W	
R536 R537 R540 R541-543 R544,545			RK73EB2E100J RK73GB2A223J RK73GB2A101J RK73GB2A473J RK73GB2A101J	CHIP R 10 J 1/4W CHIP R 22K J 1/10W CHIP R 100 J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W	
R546 R550 R551,552 R553 R554			RK73HB1J101J RK73GB2A473J RK73HB1J000J RK73HB1J472J RK73HB1J103J	CHIP R 100 J 1/16W CHIP R 47K J 1/10W CHIP R 0.0 J 1/16W CHIP R 4.7K J 1/16W CHIP R 10K J 1/16W	
R555 R556,557 R558 R559 R560			RK73HB1J473J RK73GB2A473J RK73GB2A103J RK73GB2A223J RK73GB2A181J	CHIP R 47K J 1/16W CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 180 J 1/10W	
R561,562 R564,565 R566-570 R571,572 R573			RK73GB2A473J RK73HB1J101J RK73HB1J473J RK73GB2A202J RK73GB2A911J	CHIP R 47K J 1/10W CHIP R 100 J 1/16W CHIP R 47K J 1/16W CHIP R 2.0K J 1/10W CHIP R 910 J 1/10W	
R600-602 R603 R604 R605 R606			RK73GH2A102D RK73GB2A105J RK73GB2A000J RK73GB2A105J RK73GH2A102D	CHIP R 1.0K D 1/10W CHIP R 1.0M J 1/10W CHIP R 0.0 J 1/10W CHIP R 1.0M J 1/10W CHIP R 1.0K D 1/10W	
R607-609 R610,611 R612 R613 R614			RK73GB2A105J RK73GB2A000J RK73GH2A102D RK73GB2A101J RK73GB2A751J	CHIP R 1.0M J 1/10W CHIP R 0.0 J 1/10W CHIP R 1.0K D 1/10W CHIP R 100 J 1/10W CHIP R 750 J 1/10W	
R615 R616 R617 R618 R619			RK73GB2A105J RK73GH2A102D RK73GB2A102J RK73GB2A101J RK73GB2A751J	CHIP R 1.0M J 1/10W CHIP R 1.0K D 1/10W CHIP R 1.0K J 1/10W CHIP R 100 J 1/10W CHIP R 750 J 1/10W	
R620 R622,623 R626 R627-629 R630,631			RK73GB2A105J RK73GB2A105J RK73GB2A102J RK73GB2A105J RK73GB2A101J	CHIP R 1.0M J 1/10W CHIP R 1.0M J 1/10W CHIP R 1.0K J 1/10W CHIP R 1.0M J 1/10W CHIP R 100 J 1/10W	
R632 R633,634 R635 R636,637 R638			RK73GB2A751J RK73GB2A101J RK73GB2A102J RK73GB2A4R7J RK73GB2A000J	CHIP R 750 J 1/10W CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W CHIP R 4.7 J 1/10W CHIP R 0.0 J 1/10W	E2
R638 R639 R640 R641-643 R645			RK73GB2A000J RK73GB2A101J RK73GB2A000J RK73GB2A272J RK73GB2A202J	CHIP R 0.0 J 1/10W CHIP R 100 J 1/10W CHIP R 0.0 J 1/10W CHIP R 2.7K J 1/10W CHIP R 2.0K J 1/10W	K2M5X3 K1M2M4
R645 R646 R647,648 R649 R650			RK73GB2A202J RK73GB2A473J RK73GB2A101J RK73GB2A473J RK73GB2A101J	CHIP R 2.0K J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W	X2R2
R651,652 R653 R654,655 R656 R656			RK73GB2A000J RK73GB2A473J RK73GB2A103J RK73GB2A562J RK73GB2A562J	CHIP R 0.0 J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 5.6K J 1/10W CHIP R 5.6K J 1/10W	K1M2M4 X2R2
R657,658 R657,658 R658 R658 R660			RK73GB2A101J RK73GB2A101J RK73GB2A101J RK73GB2A101J RK73GB2A103J	CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 10K J 1/10W	K1M2M4 X2R2 E2 K2M5X3
R661-663 R664 R665 R666 R669			RK73GB2A000J RK73GH2A151D RK73GB2A101J RK73GB2A000J RK73HB1J561J	CHIP R 0.0 J 1/10W CHIP R 150 D 1/10W CHIP R 100 J 1/10W CHIP R 0.0 J 1/10W CHIP R 560 J 1/16W	
R670 R676 R677 R678 R681		*	RK73HB1J102J RK73GB2A102J RK73GH2A820D RK73GB2A103J RK73GB2A000J	CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/10W CHIP R 82 D 1/10W CHIP R 10K J 1/10W CHIP R 0.0 J 1/10W	
R689 R702 R703,704 R706-708 R709			RK73GB2A101J RK73GB2A000J RK73GB2A100J RK73GB2A101J RK73EB2E750J	CHIP R 100 J 1/10W CHIP R 0.0 J 1/10W CHIP R 10 J 1/10W CHIP R 100 J 1/10W CHIP R 75 J 1/4W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-117x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R710			RK73GB2A331J	CHIP R 330 J 1/10W		IC612		*	74AHC1GU04GW	MOS-IC	X2R2
R711			RK73GB2A100J	CHIP R 10 J 1/10W		IC700			LB1836M-TLM-E	ANALOGUE IC	
R712			RK73GB2A101J	CHIP R 100 J 1/10W		Q1			DTC144EUA	DIGITAL TRANSISTOR	
R714-725			RK73GB2A101J	CHIP R 100 J 1/10W		Q2			2SA1576A	TRANSISTOR	
R726			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q3			DTC114YUA	DIGITAL TRANSISTOR	
R727,728			RK73GB2A100J	CHIP R 10 J 1/10W		Q4			2SC4081	TRANSISTOR	
R842			RK73GB2A101J	CHIP R 100 J 1/10W		Q5			2SA1576A	TRANSISTOR	
R853			RK73GB2A471J	CHIP R 470 J 1/10W		Q11			DTC114YUA	DIGITAL TRANSISTOR	
R854			RK73GB2A473J	CHIP R 47K J 1/10W		Q12			DTA114TUA	DIGITAL TRANSISTOR	
R856			RK73GB2A473J	CHIP R 47K J 1/10W		Q13			2SA1576A	TRANSISTOR	
R858			RK73GB2A471J	CHIP R 470 J 1/10W		Q14			2SC4081	TRANSISTOR	
R859			RK73GB2A101J	CHIP R 100 J 1/10W		Q15			TPC8110-F	FET	
R860,861			RK73GB2A100J	CHIP R 10 J 1/10W		Q16			2SA1576A	TRANSISTOR	
R862			RK73GB2A101J	CHIP R 100 J 1/10W		Q17			2SC4081	TRANSISTOR	
R863			RK73GB2A470J	CHIP R 47 J 1/10W		Q18			DTA114EUA	DIGITAL TRANSISTOR	
R909			RK73FB2B000J	CHIP R 0.0 J 1/8W		Q19,20			2SC4617	TRANSISTOR	
R999			RK73GB2A000J	CHIP R 0.0 J 1/10W	E2	Q21			2SB1184	TRANSISTOR	
R999			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2M5X3	Q22			2SC4617	TRANSISTOR	
D2			1SR154-400	DIODE		Q23			2SA1774	TRANSISTOR	
D3			EP05Q04	DIODE		Q28			2SB1184	TRANSISTOR	
D200-203			1SS357-F	DIODE		Q29			2SC4081	TRANSISTOR	
D501			DAP202U	DIODE		Q31			2SC4081	TRANSISTOR	
D505,506			AVRM16120M6AB	VARIATOR		Q32			2SA1576A	TRANSISTOR	
D511			AVRM16120M6AB	VARIATOR		Q35			2SB1184	TRANSISTOR	
D512,513			AVRM16270MAAB	VARIATOR		Q37			2SC4081	TRANSISTOR	
D700,701			AVRM16180M6AB	VARIATOR		Q38			2SA1576A	TRANSISTOR	
D702-710			AVRM16120M6AB	VARIATOR		Q39			2SC4081	TRANSISTOR	
D711			DA204U	DIODE		Q44			2SB1689	TRANSISTOR	
D712			AVRM16270MAAB	VARIATOR		Q45			DTC114YUA	DIGITAL TRANSISTOR	
D850			DAP202U	DIODE		Q46			2SC4081	TRANSISTOR	
D851			02DZ9.1F-Z	ZENER DIODE		Q47			2SB1184	TRANSISTOR	
IC3			SI-3050LUS	ANALOGUE IC		Q48			2SB1689	TRANSISTOR	
IC4			R1114N331B-TR	ANALOGUE IC (3.3V LF)		Q49			DTC114YUA	DIGITAL TRANSISTOR	
IC8			XC6219B332PR	ANALOGUE IC		Q200			DTC144EUA	DIGITAL TRANSISTOR	
IC200,201			LTC3728LEGN	ANALOGUE IC		Q201			DTC114YUA	DIGITAL TRANSISTOR	
IC400			W05-1260-00	ROM IC	K1K2	Q202-204			DTC144EUA	DIGITAL TRANSISTOR	
IC400			W05-1261-00	ROM IC	E2	Q205-208			HAT2218R-E	DUAL FET	
IC400			W05-1261-00	ROM IC	M4	Q400			2SA1576A	TRANSISTOR	
IC400			W05-1262-00	ROM IC	M2M5	Q402			DTC144EUA	DIGITAL TRANSISTOR	
IC400			W05-1263-00	ROM IC	R2X2X3	Q403			DTA114YUA	DIGITAL TRANSISTOR	
IC402			S-80835CNNB-G	MOS-IC		Q404			DTC114YUA	DIGITAL TRANSISTOR	
IC404		*	30878MJB24GP	MICROCONTROLLER IC		Q500			DTA114YUA	DIGITAL TRANSISTOR	E2
IC405			74AHCT1G08GW	MOS-IC		Q500			DTA114YUA	DIGITAL TRANSISTOR	K2M5X3
IC501			NJM2505AF-ZB	ANALOGUE IC		Q501			2SA1576A	TRANSISTOR	E2
IC502			TC4052BFT	MOS-IC		Q501			2SA1576A	TRANSISTOR	K2M5X3
IC504			NJM2794RB2ZB	ANALOGUE IC		Q502-505			DTC114YUA	DIGITAL TRANSISTOR	E2
IC505			TC4052BFT	MOS-IC		Q502-505			DTC114YUA	DIGITAL TRANSISTOR	K2M5X3
IC600,601			NJM2286V-ZB	ANALOGUE IC		Q502,503			DTC114YUA	DIGITAL TRANSISTOR	K1M2M4
IC604		*	74AHC1GU04GW	MOS-IC	K1M2M4	Q502,503			DTC114YUA	DIGITAL TRANSISTOR	X2R2
IC604		*	74AHC1GU04GW	MOS-IC	X2R2	Q505			DTC114YUA	DIGITAL TRANSISTOR	K1M2M4
IC606			TC7WH157FU-F	MOS-IC		Q505			DTC114YUA	DIGITAL TRANSISTOR	X2R2
IC608			74LVC3G34DP	MOS-IC		Q506			2SC4081	TRANSISTOR	
IC609			AN15885A-VF	ANALOGUE IC		Q507,508			DTC114YUA	DIGITAL TRANSISTOR	
IC612		*	74AHC1GU04GW	MOS-IC	K1M2M4	Q509			2SA1576A	TRANSISTOR	
						Q510			2SC4081	TRANSISTOR	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-117x-xx)

Ref. No.	Added	New	Parts No.	Description	Destination
Q600-602 Q603-605 Q606 Q700 Q850,851 Q852			2SA1576A 2SC4081 2SA1576A 2SA1576A DTC643TU DTA114YUA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
SWITCH UNIT (X16-6280-10)					
D1-21 D22		*	B30-1795-05 B30-1566-05	LED (1608 BLUE) LED (1608 RED)	
C1,2			CK73GB1A105K	CHIP C 1.0UF K	
S1 S2-8		*	S70-0948-05	TACT SWITCH	
		*	S70-0950-05	TACT SWITCH	
D51-73 IC1			AVRM16120M6AB GP1US301XP	VARISTOR ANALOGUE IC	
SUB-CIRCUIT UNIT (X16-6360-10)					
C1 C1			CK73GB1A105K CK73GB1A105K	CHIP C 1.0UF K CHIP C 1.0UF K	E2 K2M5X3
CN1 CN1		*	E41-2451-05	FLAT CABLE CONNECTOR	E2
J1 J1		*	E41-2451-05 E68-0025-05 E68-0025-05	FLAT CABLE CONNECTOR JACK (SD CARD SLOT) JACK (SD CARD SLOT)	K2M5X3 E2 K2M5X3
CONTROL CIRCUIT UNIT (X29-4490-11)					
C1 C11 C14 C15 C16			CK73GB1H103K CK73FB1C105K CK73FB1C106K CK73FB1C105K CE32BJ1C100M	CHIP C 0.010UF K CHIP C 1.0UF K CHIP C 10UF K CHIP C 1.0UF K CHIP EL 10UF 16WV	
C17 C18,19 C20 C21 C24			CK73GB1H102K CK73GB1H104K CK73GB1H102K CE32BJ1C100M CD04AT0J331M	CHIP C 1000PF K CHIP C 0.10UF K CHIP C 1000PF K CHIP EL 10UF 16WV ELECTRO 330UF 6.3WV	
C27-29 C100-102 C104 C107,108 C110			CK73GB1H104K CK73GB1H104K CE32BJ1C100M CK73GB1H102K CE32BJ1C100M	CHIP C 0.10UF K CHIP C 0.10UF K CHIP EL 10UF 16WV CHIP C 1000PF K CHIP EL 10UF 16WV	
C114 C116 C118 C120 C124			CE32BJ1C100M CK73GB1H102K CK73GB1H102K CE32BJ1C100M CK73EB1C106K	CHIP EL 10UF 16WV CHIP C 1000PF K CHIP C 1000PF K CHIP EL 10UF 16WV CHIP C 10UF K	
C125 C128 C130 C200 C201			CK73GB1H102K CK73GB1H102K CK73EB1C106K CK73GB1H473K CK73EB1E105K	CHIP C 1000PF K CHIP C 1000PF K CHIP C 10UF K CHIP C 0.047UF K CHIP C 1.0UF K	
C202 C203			CK73GB1H473K CK73EB1E105K	CHIP C 0.047UF K CHIP C 1.0UF K	
CN1 CN100		*	E41-2959-05 E41-2964-05	PIN ASSY PIN ASSY	

Ref. No.	Added	New	Parts No.	Description	Destination
CN300 CN302 J200 WH1		*	E41-2590-05 E40-6469-05 E58-1067-05 E39-0985-15	FLAT CABLE CONNECTOR PIN ASSY RECTANGULAR RECEPTACLE WIRING HARNESS	
R4 R6 R10 R11 R15			RK73GB2A102J RK73GB2A000J RK73EB2E100J RK73FB2B000J RK73EB2E100J	CHIP R 1.0K J 1/10W CHIP R 0.0 J 1/10W CHIP R 10 J 1/4W CHIP R 0.0 J 1/8W CHIP R 10 J 1/4W	
R16 R19 R20 R22 R24			RK73GB2A000J RK73FB2B000J RK73GB2A750J RK73GH2A750D RK73GB2A000J	CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/8W CHIP R 75 J 1/10W CHIP R 75 D 1/10W CHIP R 0.0 J 1/10W	
R30 R36 R40 R41 R43			RK73FB2B000J RK73GB2A000J RK73EB2E100J RK73EB2E4R7J RK73EB2E100J	CHIP R 0.0 J 1/8W CHIP R 0.0 J 1/10W CHIP R 10 J 1/4W CHIP R 4.7 J 1/4W CHIP R 10 J 1/4W	
R46 R47 R48 R49 R51			RK73FB2B101J RK73GB2A471J RK73EB2E750J RK73GB2A223J RK73GB2A223J	CHIP R 100 J 1/8W CHIP R 470 J 1/10W CHIP R 75 J 1/4W CHIP R 22K J 1/10W CHIP R 22K J 1/10W	
R53 R54 R57 R58,59 R102			RK73FB2B101J RK73GB2A471J RK73GB2A000J RK73GB2A223J RK73EB2E101J	CHIP R 100 J 1/8W CHIP R 470 J 1/10W CHIP R 0.0 J 1/10W CHIP R 22K J 1/10W CHIP R 100 J 1/4W	
R103 R106 R109 R113 R117			RK73GB2A471J RK73GB2A223J RK73GB2A223J RK73GB2A471J RK73EB2E101J	CHIP R 470 J 1/10W CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 470 J 1/10W CHIP R 100 J 1/4W	
R119 R120 R125 R129 R132			RK73EB2E101J RK73GB2A471J RK73GB2A223J RK73GB2A223J RK73GB2A000J	CHIP R 100 J 1/4W CHIP R 470 J 1/10W CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 0.0 J 1/10W	
R133 R134 R138 R139 R141			RK73GB2A471J RK73EB2E101J RK73EB2E101J RK73GB2A471J RK73GB2A223J	CHIP R 470 J 1/10W CHIP R 100 J 1/4W CHIP R 100 J 1/4W CHIP R 470 J 1/10W CHIP R 22K J 1/10W	
R146 R149 R150 R200 R201			RK73GB2A223J RK73GB2A471J RK73EB2E101J RK73GB2A472J RK73GB2A473J	CHIP R 22K J 1/10W CHIP R 470 J 1/10W CHIP R 100 J 1/4W CHIP R 4.7K J 1/10W CHIP R 47K J 1/10W	
R202 R203 R204 R205 R206,207			RK73EB2E152J RK73GB2A473J RK73GB2A621J RK73GB2A242J RK73PB2H2R0J	CHIP R 1.5K J 1/4W CHIP R 47K J 1/10W CHIP R 620 J 1/10W CHIP R 2.4K J 1/10W CHIP R 2.0 J 1/2W	

E2 : DNX7220 (Europe)
K1 : DDX712 K2 : DNX7120 (North America)
X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)
M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

CONTROL CIRCUIT UNIT (X29-4490-11)

Ref. No.	Add	New	Parts No.	Description	Destination
R208			RK73GB2A124J	CHIP R 120K J 1/10W	
R209			RK73GB2A103J	CHIP R 10K J 1/10W	
R210			RK73GB2A473J	CHIP R 47K J 1/10W	
R211			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R212			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R213			RK73GB2A473J	CHIP R 47K J 1/10W	
R214			RK73EB2E152J	CHIP R 1.5K J 1/4W	
R215			RK73GB2A473J	CHIP R 47K J 1/10W	
R216			RK73GB2A621J	CHIP R 620 J 1/10W	
R217			RK73GB2A242J	CHIP R 2.4K J 1/10W	
R218,219			RK73PB2H2R0J	CHIP R 2.0 J 1/2W	
R220			RK73GB2A124J	CHIP R 120K J 1/10W	
R221			RK73GB2A103J	CHIP R 10K J 1/10W	
R222			RK73GB2A473J	CHIP R 47K J 1/10W	
R223			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R300			RK73GB2A105J	CHIP R 1.0M J 1/10W	
D1			STZ6.2N	ZENER DIODE	
D3			STZ6.2N	ZENER DIODE	
D4			UDZS8.2B	ZENER DIODE	
D5			UDZS6.2B	ZENER DIODE	
D6			UDZS8.2B	ZENER DIODE	
D10			AVRM16270MAAB	VARISTOR	
D12,13			AVRM16270MAAB	VARISTOR	
D14,15			AVRM16180M6AB	VARISTOR	
D16,17			DAP202U	DIODE	
D18			STZ6.2N	ZENER DIODE	
D100-105			AVRM16180M6AB	VARISTOR	
D106-110			DAP202U	DIODE	
D200-203			1SR154-400	DIODE	
Q4			DTC643TU	DIGITAL TRANSISTOR	
Q5			DTA144EUA	DIGITAL TRANSISTOR	
Q6			DTC643TU	DIGITAL TRANSISTOR	
Q100			DTC643TU	DIGITAL TRANSISTOR	
Q101			DTA144EUA	DIGITAL TRANSISTOR	
Q102-105			DTC643TU	DIGITAL TRANSISTOR	
Q106			DTA144EUA	DIGITAL TRANSISTOR	
Q107			DTC643TU	DIGITAL TRANSISTOR	
Q200			DTC114TUA	DIGITAL TRANSISTOR	
Q201			2SC4081	TRANSISTOR	
Q202			2SB1443	TRANSISTOR	
Q203			2SA1576A	TRANSISTOR	
Q204,205			2SC4081	TRANSISTOR	
Q206			DTC114TUA	DIGITAL TRANSISTOR	
Q207			2SC4081	TRANSISTOR	
Q208			2SB1443	TRANSISTOR	
Q209			2SA1576A	TRANSISTOR	
Q210,211			2SC4081	TRANSISTOR	
ELECTRIC UNIT (X34-598x-xx)					
C1			CE32BJ1H3R3M	CHIP EL 3.3UF 50WV	
C2			CK73FB1C105K	CHIP C 1.0UF K	
C3			CK73GB1H103K	CHIP C 0.010UF K	
C4			CK73FB1C105K	CHIP C 1.0UF K	
C5			CK73GB1H104K	CHIP C 0.10UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C6,7			CK73FB1C105K	CHIP C 1.0UF K	
C8,9			CK73GB1H103K	CHIP C 0.010UF K	
C11			CK73GB1H103K	CHIP C 0.010UF K	
C12			C90-5666-05	ELECTRO 3900UF 25WV	
C13			CK73GB1H103K	CHIP C 0.010UF K	
C14			CK73FB1E474K	CHIP C 0.47UF K	
C16			CK73GB1H103K	CHIP C 0.010UF K	
C17		*	C93-1470-05	CHIP C 15000PF K	M4E2
C100			C90-6851-05	ELECTRO 220UF 25WV	
C105			CD04AY1H100M	ELECTRO 10UF 50WV	
C110			CD04AY0J331M	ELECTRO 330UF 6.3WV	
C111			CK73FB1C105K	CHIP C 1.0UF K	E2
C113			CE32BJ1C101M	CHIP EL 100UF 16WV	E2
C114			CK73GB1C104K	CHIP C 0.10UF K	
C116			CK73FB1H334K	CHIP C 0.33UF K	
C118			CK73GB1C104K	CHIP C 0.10UF K	
C119			CK73FB1E474K	CHIP C 0.47UF K	
C121			CD04BA1C100M	ELECTRO 10UF 16WV	
C123			CK73GB1H104K	CHIP C 0.10UF K	
C124			CK73GB1H103K	CHIP C 0.010UF K	
C125			CK73FB1E474K	CHIP C 0.47UF K	
C126			CD04AT1E101M	ELECTRO 100UF 25WV	
C129			CK73GB1A105K	CHIP C 1.0UF K	
C131			C90-5692-05	ELECTRO 220UF 16WV	
C133			CK73GB1H102K	CHIP C 1000PF K	E2
C201,202			CK73FB1A225K	CHIP C 2.2UF K	
C205			CK73EB1C106K	CHIP C 10UF K	
C206			CE32BJ1C220M	CHIP EL 22UF 16WV	
C207			CK73GB1C104K	CHIP C 0.10UF K	
C208			CK73FB1A225K	CHIP C 2.2UF K	
C209			CK73GB1C104K	CHIP C 0.10UF K	
C210,211			CK73FB1A225K	CHIP C 2.2UF K	
C212			CK73EB1C106K	CHIP C 10UF K	
C213			CK73FB1A225K	CHIP C 2.2UF K	
C214			CK73HB1E103K	CHIP C 0.010UF K	
C215			CK73EB1E225K	CHIP C 2.2UF K	
C216			CK73GB1C104K	CHIP C 0.10UF K	
C217			CK73GB1A105K	CHIP C 1.0UF K	
C218-220			CK73GB1C104K	CHIP C 0.10UF K	
C221			CK73EB1C106K	CHIP C 10UF K	
C222-226			CK73HB1A104K	CHIP C 0.10UF K	
C227			CK73EB1C106K	CHIP C 10UF K	
C228			CK73GB1H103K	CHIP C 0.010UF K	
C233,234			CK73FB1C105K	CHIP C 1.0UF K	
C235,236			CE32BJ1H3R3M	CHIP EL 3.3UF 50WV	
C237			CK73FB1C105K	CHIP C 1.0UF K	
C238-241			CK73EB1E225K	CHIP C 2.2UF K	
C242,243			CK73FB1E474K	CHIP C 0.47UF K	
C244			CE32BJ1H010M	CHIP EL 1.0UF 50WV	
C247			CK73GB1H103K	CHIP C 0.010UF K	
C248			CE32BJ1V100M	CHIP EL 10UF 35WV	
C249,250			CK73FB1C105K	CHIP C 1.0UF K	
C263			CE32BJ1C470M	CHIP EL 47UF 16WV	
C264,265			C90-6779-05	ELECTRO 0.47UF 16WV	
C266			CK73GB1A105K	CHIP C 1.0UF K	

E2 : DNX7220 (Europe)
K1 : DDX712 K2 : DNX7120 (North America)
X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)
M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-598x-xx)

Ref. No.	Added	New	Parts No.	Description	Destination
C267,268 C272 C274 C275,276 C278			C90-6780-05 CK73GB1A105K CK73GB1C104K C90-6779-05 CE32CL1C100M	ELECTRO 1UF 16WV CHIP C 1.0UF K CHIP C 0.10UF K ELECTRO 0.47UF 16WV CHIP EL 10UF 16WV	
C500,501 C500,501 C500,501 C503 C503			CC73GCH1H100D CC73GCH1H100D CC73GCH1H100D CD04AS1V100M CD04AS1V100M	CHIP C 10PF D CHIP C 10PF D CHIP C 10PF D ELECTRO 10UF 35WV ELECTRO 10UF 35WV	K1R2M2 M4K2E2 M5 K1R2M2 M4K2E2
C503 C504 C504 C504 C505			CD04AS1V100M CK73GB1H103K CK73GB1H103K CK73GB1H103K CC73GCH1H331J	ELECTRO 10UF 35WV CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 330PF J	M5 K1R2M2 M4K2E2 M5 K1R2M2
C505 C505 C506,507 C508 C509			CC73GCH1H331J CC73GCH1H331J CE32BJ1C220M CE32BJ1C100M CE32BJ1C220M	CHIP C 330PF J CHIP C 330PF J CHIP EL 22UF 16WV CHIP EL 10UF 16WV CHIP EL 22UF 16WV	M4K2E2 M5
C515 C515 C515 C516-519 C520-522			CE32BJ1C100M CE32BJ1C100M CE32BJ1C100M CK73GB1H103K CK73GB1H102K	CHIP EL 10UF 16WV CHIP EL 10UF 16WV CHIP EL 10UF 16WV CHIP C 0.010UF K CHIP C 1000PF K	K1R2M2 M4K2E2 M5 E2
C521,522 C521,522 C521,522 C524 C550			CK73GB1H102K CK73GB1H102K CK73GB1H102K CK73GB1H472K CK73GB1C104K	CHIP C 1000PF K CHIP C 1000PF K CHIP C 1000PF K CHIP C 4700PF K CHIP C 0.10UF K	K1M2M4 M5X3 X2R2K2
C551 C552,553 C600-602 C616-618 C650-652			CD04AS1C470M CK73GB1A474K CK73GB1A474K CK73GB1H104K CK73FB1C105K	ELECTRO 47UF 16WV CHIP C 0.47UF K CHIP C 0.47UF K CHIP C 0.10UF K CHIP C 1.0UF K	
C653 C654,655 C656 C701 C702			CK73GB1H103K CC73GCH1H470J CK73GB1H104K CK73GB1H102K CK73GB1C104K	CHIP C 0.010UF K CHIP C 47PF J CHIP C 0.10UF K CHIP C 1000PF K CHIP C 0.10UF K	
C703 C704 C706,707 C708,709 C710			CK73GB1H102K CD04BJ0J331M CK73GB1C104K CC73GCH1H100D CK73GB1C104K	CHIP C 1000PF K ELECTRO 330UF 6.3WV CHIP C 0.10UF K CHIP C 10PF D CHIP C 0.10UF K	
C711 C712 C903			CK73GB1A105K CK73GB1C104K CK73GB1H472K	CHIP C 1.0UF K CHIP C 0.10UF K CHIP C 4700PF K	
CN300 CN350 CN400 CN401 CN550		*	E41-2771-05 E41-2979-05 E41-2237-05 E40-6470-05 E41-2772-05	PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY PIN ASSY	E2
CN550			E41-2772-05	PIN ASSY	K2M5X3

Ref. No.	Added	New	Parts No.	Description	Destination
CN700 J1 J550 J550 J600		*	E41-2248-05 E58-1043-05 E56-0864-05 E56-0864-05 E58-1034-05	PIN ASSY RECTANGULAR RECEPTACLE CYLINDRICAL RECEPTACLE CYLINDRICAL RECEPTACLE RECTANGULAR RECEPTACLE	K1M2M4 X2R2
J650 W500 W500 W500		* * *	E58-1097-05 E30-6797-05 E30-6797-05 E30-6797-05	RECTANGULAR RECEPTACLE CORD WITH PLUG (FM/AM ANT) CORD WITH PLUG (FM/AM ANT) CORD WITH PLUG (FM/AM ANT)	K1M2M4 M5X3 X2R2K2
F100 F101			F53-0297-05 F53-0306-05	FUSE (UL,CSA) 1.6A FUSE (UL,CSA) 5A	
L100 L200 L500 L502 L504			L92-0329-05 L41-1005-33 L41-4795-33 L41-4795-33 L41-4795-33	CHIP FERRITE SMALL FIXED INDUCTOR (10U) SMALL FIXED INDUCTOR (4.7U) SMALL FIXED INDUCTOR (4.7U) SMALL FIXED INDUCTOR (4.7U)	E2 K1R2M2
L504 L504 L700 L701 X500			L41-4795-33 L41-4795-33 L92-0319-05 L33-2359-05 L77-2002-05	SMALL FIXED INDUCTOR (4.7U) SMALL FIXED INDUCTOR (4.7U) CHIP FERRITE CHOKE COIL 140UH CRYSTAL RESONATOR	M4K2E2 M5 K1R2M2
X500 X500 X700		*	L77-2002-05 L77-2002-05 L77-2975-05	CRYSTAL RESONATOR CRYSTAL RESONATOR CRYSTAL RESONATOR (11.0592MHZ)	M4K2E2 M5
AB E	2C 2C		N09-6727-05 N35-2604-43	TAPTITE SCREW (3X8 T) BINDING HEAD MACHINE SCREW	
R1 R2 R3 R4 R5			RK73GB2A473J RK73GB2A102J RK73EB2E272J RK73FB2B472J RK73GB2A223J	CHIP R 47K J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.7K J 1/4W CHIP R 4.7K J 1/8W CHIP R 22K J 1/10W	
R6 R7 R8 R9 R10			RK73PB2H102J RK73GB2A473J RK73PB2H102J RK73GB2A473J RK73GB2A103J	CHIP R 1.0K J 1/2W CHIP R 47K J 1/10W CHIP R 1.0K J 1/2W CHIP R 47K J 1/10W CHIP R 10K J 1/10W	
R11 R12 R13 R14 R15			RK73EB2E103J RK73FB2B000J RK73GB2A104J RK73EB2E272J RK73GB2A102J	CHIP R 10K J 1/4W CHIP R 0.0 J 1/8W CHIP R 100K J 1/10W CHIP R 2.7K J 1/4W CHIP R 1.0K J 1/10W	E2
R16 R16 R16 R17 R17			RK73GB2A103J RK73GB2A103J RK73GB2A103J RK73GB2A222J RK73GB2A222J	CHIP R 10K J 1/10W CHIP R 10K J 1/10W CHIP R 10K J 1/10W CHIP R 2.2K J 1/10W CHIP R 2.2K J 1/10W	K1M2M4 M5X3 X2R2K2 K1M2M4 M5X3
R17 R18 R19 R20,21 R20,21			RK73GB2A222J RK73EB2E102J RK73FB2B472J RK73PB2H102J RK73PB2H102J	CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/4W CHIP R 4.7K J 1/8W CHIP R 1.0K J 1/2W CHIP R 1.0K J 1/2W	X2R2K2 K1M2M4 M5X3
R20,21 R22			RK73PB2H102J RK73GB2A104J	CHIP R 1.0K J 1/2W CHIP R 100K J 1/10W	X2R2K2

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-598x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R23			RK73GB2A103J	CHIP R 10K J 1/10W	K1M2M4	R232			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R23			RK73GB2A103J	CHIP R 10K J 1/10W	M5X3	R233,234			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R23			RK73GB2A103J	CHIP R 10K J 1/10W	X2R2K2	R237			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R24			RK73GB2A223J	CHIP R 22K J 1/10W		R238,239			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R25			RK73GB2A103J	CHIP R 10K J 1/10W		R240			RK73GB2A473J	CHIP R 47K J 1/10W	
R26			RK73GB2A183J	CHIP R 18K J 1/10W		R241			RK73GB2A113J	CHIP R 11K J 1/10W	
R27			RK73GB2A473J	CHIP R 47K J 1/10W		R242			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R28			RK73GB2A222J	CHIP R 2.2K J 1/10W		R243			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R29			RK73GH2A563D	CHIP R 56K D 1/10W		R244			RK73GB2A100J	CHIP R 10 J 1/10W	
R31			RK73FB2B561J	CHIP R 560 J 1/8W		R245			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R32			RK73GB2A000J	CHIP R 0.0 J 1/10W		R246			RK73GB2A331J	CHIP R 330 J 1/10W	
R34			RK73EB2E102J	CHIP R 1.0K J 1/4W		R247			RK73GB2A473J	CHIP R 47K J 1/10W	
R35			RK73GH2A333D	CHIP R 33K D 1/10W		R248			RK73HH1J102D	CHIP R 1.0K D 1/16W	
R36,37			RK73GB2A104J	CHIP R 100K J 1/10W		R250			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R38			RK73GB2A473J	CHIP R 47K J 1/10W		R251			RK73HH1J102D	CHIP R 1.0K D 1/16W	
R39			RK73EB2E103J	CHIP R 10K J 1/4W		R252			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R40			RK73GB2A104J	CHIP R 100K J 1/10W		R260			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R41			RK73GB2A153J	CHIP R 15K J 1/10W		R262			RK73GB2A561J	CHIP R 560 J 1/10W	
R42,43			RK73EB2E622J	CHIP R 6.2K J 1/4W		R263			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R44			RK73GB2A912J	CHIP R 9.1K J 1/10W		R500			RK73GB2A222J	CHIP R 2.2K J 1/10W	K1R2M2
R48			RK73FB2B000J	CHIP R 0.0 J 1/8W		R500			RK73GB2A222J	CHIP R 2.2K J 1/10W	M4K2E2
R50			RK73FB2B000J	CHIP R 0.0 J 1/8W		R500			RK73GB2A222J	CHIP R 2.2K J 1/10W	M5
R104			RK73FB2B203J	CHIP R 20K J 1/8W	E2	R501			RK73GB2A223J	CHIP R 22K J 1/10W	
R107			RK73FB2B221J	CHIP R 220 J 1/8W		R502			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R108			RK73GB2A101J	CHIP R 100 J 1/10W		R503			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R112			RK73GB2A101J	CHIP R 100 J 1/10W	E2	R504,505			RK73GB2A222J	CHIP R 2.2K J 1/10W	K1R2M2
R117			RK73GH2A243D	CHIP R 24K D 1/10W	E2	R504,505			RK73GB2A222J	CHIP R 2.2K J 1/10W	M4K2E2
R122			RK73GH2A432D	CHIP R 4.3K D 1/10W		R504,505			RK73GB2A222J	CHIP R 2.2K J 1/10W	M5
R124			RK73GB2A223J	CHIP R 22K J 1/10W		R552			RK73GB2A101J	CHIP R 100 J 1/10W	
R126			RK73FB2B222J	CHIP R 2.2K J 1/8W		R553			RK73EB2E101J	CHIP R 100 J 1/4W	
R130			RK73FB2B221J	CHIP R 220 J 1/8W		R554			RK73GB2A100J	CHIP R 10 J 1/10W	
R132			RK73GB2A823J	CHIP R 82K J 1/10W		R555			RK73EB2E101J	CHIP R 100 J 1/4W	
R133			RK73GB2A103J	CHIP R 10K J 1/10W		R556			RK73GB2A100J	CHIP R 10 J 1/10W	
R136			RK73GB2A224J	CHIP R 220K J 1/10W		R557			RK73EB2E101J	CHIP R 100 J 1/4W	
R138			RK73GB2A333J	CHIP R 33K J 1/10W		R558			RK73GB2A100J	CHIP R 10 J 1/10W	
R139			RK73GB2A224J	CHIP R 220K J 1/10W		R559			RK73EB2E101J	CHIP R 100 J 1/4W	
R146			RK73GH2A243D	CHIP R 24K D 1/10W		R560			RK73GB2A100J	CHIP R 10 J 1/10W	
R147			RK73GH2A432D	CHIP R 4.3K D 1/10W		R561-563			RK73GB2A750J	CHIP R 75 J 1/10W	K1M2M4
R200			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		R561-563			RK73GB2A750J	CHIP R 75 J 1/10W	X2R2
R201			RK73GB2A102J	CHIP R 1.0K J 1/10W		R561-564			RK73GB2A102J	CHIP R 1.0K J 1/10W	E2
R202			RK73GB2A682J	CHIP R 6.8K J 1/10W		R561-564			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2M5X3
R203			RK73GB2A103J	CHIP R 10K J 1/10W		R565			RK73GB2A103J	CHIP R 10K J 1/10W	E2
R204,205			RK73HB1J101J	CHIP R 100 J 1/16W		R565			RK73GB2A103J	CHIP R 10K J 1/10W	K2M5X3
R206			RK73GH2A123D	CHIP R 12K D 1/10W		R565			RK73GB2A750J	CHIP R 75 J 1/10W	K1M2M4
R207			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		R565			RK73GB2A750J	CHIP R 75 J 1/10W	X2R2
R208			RK73HB1J103J	CHIP R 10K J 1/16W		R566			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R209			RK73HB1J472J	CHIP R 4.7K J 1/16W		R567,568			RK73EB2E100J	CHIP R 10 J 1/4W	
R211			RK73HB1J472J	CHIP R 4.7K J 1/16W		R569,570			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R213			RK73HB1J103J	CHIP R 10K J 1/16W		R571-574			RK73GB2A911J	CHIP R 910 J 1/10W	E2
R215			RK73GB2A104J	CHIP R 100K J 1/10W		R571-574			RK73GB2A911J	CHIP R 910 J 1/10W	K2M5X3
R216			RK73GB2A102J	CHIP R 1.0K J 1/10W		R575			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R217			RK73GB2A103J	CHIP R 10K J 1/10W		R576-581			RK73GB2A100J	CHIP R 10 J 1/10W	
R218-223			RK73GB2A101J	CHIP R 100 J 1/10W		R600			RK73EB2E200J	CHIP R 20 J 1/4W	
R224			RK73GB2A103J	CHIP R 10K J 1/10W		R601			RK73EB2E100J	CHIP R 10 J 1/4W	
R226-229			RK73GB2A470J	CHIP R 47 J 1/10W		R602			RK73EB2E200J	CHIP R 20 J 1/4W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-598x-xx)

Ref. No.	Ad	New	Parts No.	Description	Destination
R603-605 R606-608 R609,610 R611 R612			RK73EB2E102J RK73EB2E101J RK73EB2E102J RK73EB2E101J RK73GB2A100J	CHIP R 1.0K J 1/4W CHIP R 100 J 1/4W CHIP R 1.0K J 1/4W CHIP R 100 J 1/4W CHIP R 10 J 1/10W	
R613 R650 R651 R652 R653,654			RK73GB2A750J RK73EB2E200J RK73EB2E100J RK73EB2E200J RK73EB2E102J	CHIP R 75 J 1/10W CHIP R 20 J 1/4W CHIP R 10 J 1/4W CHIP R 20 J 1/4W CHIP R 1.0K J 1/4W	
R655 R656,657 R658 R659 R660			RK73GB2A473J RK73GB2A103J RK73GB2A473J RK73GB2A472J RK73GB2A101J	CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 100 J 1/10W	
R661-663 R664 R665 R666 R667-669			RK73EB2E101J RK73GB2A103J RK73GB2A104J RK73GB2A102J RK73GB2A100J	CHIP R 100 J 1/4W CHIP R 10K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 10 J 1/10W	
R670 R671 R673 R700 R700			RK73GB2A101J RK73GB2A000J RK73GB2A103J RK73HB1J103J RK73HB1J303J	CHIP R 100 J 1/10W CHIP R 0.0 J 1/10W CHIP R 10K J 1/10W CHIP R 10K J 1/16W CHIP R 30K J 1/16W	K1K2 X2X3
R700 R700,701 R701 R701 R703			RK73HB1J332J RK73HB1J103J RK73HB1J103J RK73HB1J103J RK73HB1J473J	CHIP R 3.3K J 1/16W CHIP R 10K J 1/16W CHIP R 10K J 1/16W CHIP R 10K J 1/16W CHIP R 47K J 1/16W	E2 M2M4M5 R2X2E2 X3
R704 R705 R705 R706,707 R706,707			RK73HB1J102J RK73HB1J473J RK73HB1J473J RK73HB1J473J RK73HB1J473J	CHIP R 1.0K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W	K1M2M4 X2R2 E2 K2M5X3
R707 R707 R711 R712,713 R714			RK73HB1J473J RK73HB1J473J RK73HB1J473J RK73HB1J222J RK73HB1J101J	CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 2.2K J 1/16W CHIP R 100 J 1/16W	K1M2M4 X2R2
R715 R716 R717 R718 R719			RK73HB1J102J RK73HB1J101J RK73HB1J472J RK73HB1J101J RK73HB1J102J	CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 4.7K J 1/16W CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W	E2
R719,720 R719,720 R719,720 R721 R726			RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J101J RK73HB1J102J	CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W	K1M2M4 M5X3 X2R2K2
R727,728 R729,730 R731 R733 R734			RK73HB1J103J RK73HB1J473J RK73HB1J101J RK73HB1J473J RK73HB1J101J	CHIP R 10K J 1/16W CHIP R 47K J 1/16W CHIP R 100 J 1/16W CHIP R 47K J 1/16W CHIP R 100 J 1/16W	
Ref. No.	Ad	New	Parts No.	Description	Destination
R735 R737 R740,741 R742 R743			RK73HB1J102J RK73HB1J102J RK73HB1J101J RK73HB1J102J RK73HB1J101J	CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W	
R744 R745,746 R747 R748 R750			RK73GB2A473J RK73HB1J101J RK73HB1J000J RK73HB1J101J RK73HB1J101J	CHIP R 47K J 1/10W CHIP R 100 J 1/16W CHIP R 0.0 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W	
R751 R752 R753 R753 R753			RK73GB2A473J RK73HB1J102J RK73HB1J101J RK73HB1J101J RK73HB1J101J	CHIP R 47K J 1/10W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W	K1R2M2 M4K2E2 M5
R755 R756 R756 R756 R758			RK73HB1J102J RK73HB1J101J RK73HB1J101J RK73HB1J101J RK73HB1J101J	CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W	K1R2M2 M4K2E2 M5 K1R2M2
R758 R758 R759 R760 R762			RK73HB1J101J RK73HB1J101J RK73HB1J102J RK73HB1J223J RK73HB1J102J	CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W CHIP R 22K J 1/16W CHIP R 1.0K J 1/16W	M4K2E2 M5
R765,766 R765,766 R765,766 R768 R770			RK73HB1J473J RK73HB1J473J RK73HB1J473J RK73HB1J473J RK73HB1J473J	CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W	K1R2M2 M4K2E2 M5 K1R2M2
R770 R770 R772,773 R774,775 R776			RK73HB1J473J RK73HB1J473J RK73HB1J102J RK73HB1J101J RK73HB1J102J	CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W	M4K2E2 M5
R777 R780,781 R782 R783-788 R789			RK73HB1J472J RK73HB1J102J RK73HB1J472J RK73HB1J101J RK73HB1J470J	CHIP R 4.7K J 1/16W CHIP R 1.0K J 1/16W CHIP R 4.7K J 1/16W CHIP R 100 J 1/16W CHIP R 47 J 1/16W	
R790,791 R792,793 R794 R795 R796			RK73HB1J101J RK73HB1J471J RK73HB1J104J RK73HB1J103J RK73HB1J473J	CHIP R 100 J 1/16W CHIP R 470 J 1/16W CHIP R 100K J 1/16W CHIP R 10K J 1/16W CHIP R 47K J 1/16W	
R797 R798 R799 R800 R801			RK73HB1J472J RK73GB2A473J RK73HB1J104J RK73GB2A473J RK73GB2A101J	CHIP R 4.7K J 1/16W CHIP R 47K J 1/10W CHIP R 100K J 1/16W CHIP R 47K J 1/10W CHIP R 100 J 1/10W	
R802 R803-807 R808 R809 R810			RK73HB1J473J RK73GB2A101J RK73HB1J473J RK73HB1J472J RK73HB1J473J	CHIP R 47K J 1/16W CHIP R 100 J 1/10W CHIP R 47K J 1/16W CHIP R 4.7K J 1/16W CHIP R 47K J 1/16W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-598x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R811			RK73HB1J102J	CHIP R 1.0K J 1/16W	
D1,2			M1F60-6063	DIODE	
D3			DAP202U	DIODE	
D4			M1F60-6063	DIODE	
D5			DAN202U	DIODE	
D6			M1F60-6063	DIODE	
D7			DAN202U	DIODE	
D8			M1F60-6063	DIODE	
D9			DAN202U	DIODE	
D10			UDZS6.2B	ZENER DIODE	
D11			M1F60-6063	DIODE	
D12			UDZS6.8B	ZENER DIODE	
D14		*	RM30LF014-102	DIODE	
D15			UDZS6.2B	ZENER DIODE	
D16			UDZS5.6B	ZENER DIODE	
D17			UDZS4.7B	ZENER DIODE	
D18			UDZS6.2B	ZENER DIODE	
D19			DAN202U	DIODE	
D100			RB160L-40	DIODE	
D102			UDZS5.6B	ZENER DIODE	
D105			DA204U	DIODE	
D200			UDZS6.8B	ZENER DIODE	
D201,202			DAP202U	DIODE	
D203			AVRM16270MAAB	VARISTOR	
D204			DAP202U	DIODE	
D206			DAP202U	DIODE	
D500			IMSA-6801-E	SURGE ABSORBER	
D550			UDZS6.2B	ZENER DIODE	
D551-555			STZ6.2N	ZENER DIODE	K1M2M4
D551-555			STZ6.2N	ZENER DIODE	X2R2
D556			STZ6.8N	ZENER DIODE	K1M2M4
D556			STZ6.8N	ZENER DIODE	X2R2
D557			UDZS6.2B	ZENER DIODE	K1M2M4
D557			UDZS6.2B	ZENER DIODE	X2R2
D600			STZ6.8N	ZENER DIODE	
D601			UDZS6.2B	ZENER DIODE	
D604,605			STZ6.2N	ZENER DIODE	
D606			UDZS6.2B	ZENER DIODE	
D607			AVRM16180M6AB	VARISTOR	
D608,609			AVRM16120M6AB	VARISTOR	
D613			STZ6.2N	ZENER DIODE	
D649			DAP202U	DIODE	
D650			STZ6.8N	ZENER DIODE	
D651			UDZS6.2B	ZENER DIODE	
D652			STZ6.2N	ZENER DIODE	
D653			AVRM16180M6AB	VARISTOR	
D654			DAP202U	DIODE	
D662,663			AVRM16180M6AB	VARISTOR	
D664,665			DAP202U	DIODE	
IC101			M5237ML-CF0J	ANALOGUE IC	E2
IC103			TA78L05F-F	ANALOGUE IC	
IC104			R1114N331B-TR	ANALOGUE IC (3.3V LF)	
IC106			M5237ML-CF0J	ANALOGUE IC	
IC200			AK4220	ANALOGUE IC	
IC201			NJM4565V-ZB	ANALOGUE IC	
IC203			E-TDA7415CB	ANALOGUE IC	
IC500			E-TDA7478AD	ANALOGUE IC	K1R2M2
IC500			E-TDA7478AD	ANALOGUE IC	M4K2E2
IC500			E-TDA7478AD	ANALOGUE IC	M5
IC550			74AHC1G04GW	MOS-IC	
IC650			74AHC1G08GW	MOS-IC	
IC701		*	S-80835CNNB-G	MOS-IC	
IC702			30624MWPB74GP	MICROCONTROLLER IC	
IC704			TB2923HQ	ANALOGUE IC	
Q1			2SB1188(Q,R)	TRANSISTOR	
Q2			2SA1576A	TRANSISTOR	
Q3			DTC124EUA	DIGITAL TRANSISTOR	
Q4			DTA114EUA	DIGITAL TRANSISTOR	
Q5			2SA1576A	TRANSISTOR	
Q6			DTC114YUA	DIGITAL TRANSISTOR	
Q7			2SB1188(R)	TRANSISTOR	K1M2M4
Q7			2SB1188(R)	TRANSISTOR	M5X3
Q7			2SB1188(R)	TRANSISTOR	X2R2K2
Q8			DTC124EUA	DIGITAL TRANSISTOR	
Q9,10			2SC4081	TRANSISTOR	K1M2M4
Q9,10			2SC4081	TRANSISTOR	M5X3
Q9,10			2SC4081	TRANSISTOR	X2R2K2
Q10			2SC4081	TRANSISTOR	E2
Q11			2SA1576A	TRANSISTOR	
Q13,14			2SC4081	TRANSISTOR	
Q104			UMC2N	TRANSISTOR	E2
Q105			KTA1046-P	TRANSISTOR	
Q107			2SB1184	TRANSISTOR	E2
Q108			2SC4081	TRANSISTOR	
Q111			2SB1689	TRANSISTOR	
Q112			DTC124EUA	DIGITAL TRANSISTOR	
Q113			DTC114YUA	DIGITAL TRANSISTOR	
Q114			2SA1576A	TRANSISTOR	
Q115			KTA1046-P	TRANSISTOR	
Q116			DTC124EUA	DIGITAL TRANSISTOR	
Q117			2SA1576A	TRANSISTOR	
Q118			DTA124EUA	DIGITAL TRANSISTOR	
Q119			TPC8110-F	FET	
Q200			2SA1576A	TRANSISTOR	
Q500			DTC124EUA	DIGITAL TRANSISTOR	
Q501			2SB1689	TRANSISTOR	
Q650,651			2SC4081	TRANSISTOR	
Q652			DTA114EUA	DIGITAL TRANSISTOR	
Q653,654			DTC144EUA	DIGITAL TRANSISTOR	
Q700			DTC144EUA	DIGITAL TRANSISTOR	
Q701			RT1N440M	TRANSISTOR	
Q702			DTC114YUA	DIGITAL TRANSISTOR	
Q703			DTC124EUA	DIGITAL TRANSISTOR	
Q704			DTC114TUA	DIGITAL TRANSISTOR	
Q705			2SK3019	FET	
Q706			DTA114TUA	DIGITAL TRANSISTOR	
Q707			2SK3019	FET	
TH201			PRF18BE471QS2	POSITIVE RESISTOR	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-598x-xx)

Ref. No.	Ad	New	Parts No.	Description	Destination
A500			X86-4030-11	FRONT-END UNIT	K1R2X2
A500			X86-4030-11	FRONT-END UNIT	K2X3
A500			X86-4032-70	FRONT-END UNIT	M2M4E2
A500			X86-4032-70	FRONT-END UNIT	M5
A501	2C	*	X89-3062-71	DAUGHTER UNIT	E2
VIDEO UNIT (X35-4940-11)					
C1,2			CK73EB1E106K	CHIP C 10UF	K
C3-6			CK73GB1H103K	CHIP C 0.010UF	K
C7,8			CK73GB0J225K	CHIP C 2.2UF	K
C9			CK73GB1A474K	CHIP C 0.47UF	K
C10			CK73GB1E183K	CHIP C 0.018UF	K
C11			CK73GB1H152K	CHIP C 1500PF	K
C12			CK73GB0J225K	CHIP C 2.2UF	K
C13			CK73GB1H103K	CHIP C 0.010UF	K
C14,15			CK73GB1H473K	CHIP C 0.047UF	K
C16			C93-1383-05	CHIP C 220PF	F
C18-20			CK73EB1E106K	CHIP C 10UF	K
C21-24			C93-1283-05	CHIP C 1.0UF	K
C25		*	C93-1461-05	CHIP C 2700PF	F
C26			C93-1273-05	CHIP C 15PF	J
C27		*	C93-1466-05	CHIP C 0.018UF	F
C101			CK73FB0J106K	CHIP C 10UF	K
C102			CK73GB1H103K	CHIP C 0.010UF	K
C103			CC73GCH1H102J	CHIP C 1000PF	J
C104-107			CK73GB1C104K	CHIP C 0.10UF	K
C108			CK73EB1E106K	CHIP C 10UF	K
C109			CK73GB1H104K	CHIP C 0.10UF	K
C110			CK73GB1H103K	CHIP C 0.010UF	K
C111			CK73FB1E154K	CHIP C 0.15UF	K
C112			CC73GCH1H102J	CHIP C 1000PF	J
C113			CK73GB1C224K	CHIP C 0.22UF	K
C114			CC73GCH1H151J	CHIP C 150PF	J
C115			CK73EB1E225K	CHIP C 2.2UF	K
C117,118			CK73FB1C106K	CHIP C 10UF	K
C119			CK73GB1C104K	CHIP C 0.10UF	K
C120			CK73FB1C106K	CHIP C 10UF	K
C121			CK73GB1C104K	CHIP C 0.10UF	K
C122			CK73GB1H103K	CHIP C 0.010UF	K
C124			CK73FB1C106K	CHIP C 10UF	K
C131			CK73FB1C106K	CHIP C 10UF	K
C140,141			CK73GB1C104K	CHIP C 0.10UF	K
C200			CK73FB0J106K	CHIP C 10UF	K
C201			CK73GB1H103K	CHIP C 0.010UF	K
C202			CK73FB1C106K	CHIP C 10UF	K
C203			CK73GB1H103K	CHIP C 0.010UF	K
C204,205			CK73FB1A475K	CHIP C 4.7UF	K
C207			CC73GCH1H560J	CHIP C 56PF	J
C208			CK73EB1E106K	CHIP C 10UF	K
C209			CK73GB1H103K	CHIP C 0.010UF	K
C210			CK73EB1E106K	CHIP C 10UF	K
C211			CK73GB1H103K	CHIP C 0.010UF	K
C216,217			CK73FB1C106K	CHIP C 10UF	K
C218			CK73GB1C104K	CHIP C 0.10UF	K
C219			CC73GCH1H101J	CHIP C 100PF	J
C221			CK73FB1C106K	CHIP C 10UF	K

Ref. No.	Ad	New	Parts No.	Description	Destination
C301			CK73HB1E103K	CHIP C 0.010UF	K
C302			CK73FB0J106K	CHIP C 10UF	K
C303			CK73HB1E103K	CHIP C 0.010UF	K
C304			CK73FB0J106K	CHIP C 10UF	K
C305			CK73GB1A105K	CHIP C 1.0UF	K
C306			CK73HB1A104K	CHIP C 0.10UF	K
C308			CK73GB1A105K	CHIP C 1.0UF	K
C309			CC73HCH1H560J	CHIP C 56PF	J
C310			CC73HCH1H330J	CHIP C 33PF	J
C311,312			CC73HCH1H102J	CHIP C 1000PF	J
C313			CK73HB1A104K	CHIP C 0.10UF	K
C314			CK73FB0J106K	CHIP C 10UF	K
C315-334			CK73HB1A104K	CHIP C 0.10UF	K
C335			CC73HCH1H240J	CHIP C 24PF	J
C336			CC73HCH1H270J	CHIP C 27PF	J
C337			CK73HB1A104K	CHIP C 0.10UF	K
C338,339			CK73HB1E103K	CHIP C 0.010UF	K
C340			CK73HB1A104K	CHIP C 0.10UF	K
C341			CK73FB0J106K	CHIP C 10UF	K
C342-347			CK73HB1A104K	CHIP C 0.10UF	K
C349,350			CK73HB1A104K	CHIP C 0.10UF	K
C360			CK73HB1H102K	CHIP C 1000PF	K
C361			CC73HCH1H820J	CHIP C 82PF	J
C362,363			CK73HB1A104K	CHIP C 0.10UF	K
C372			CK73FB1C105K	CHIP C 1.0UF	K
C373,374			CK73FB0J106K	CHIP C 10UF	K
C375			CK73EB1E105K	CHIP C 1.0UF	K
C376-382			CK73HB1A104K	CHIP C 0.10UF	K
C386			CK73HB1A104K	CHIP C 0.10UF	K
C387			CK73HB1H102K	CHIP C 1000PF	K
C500,501			CK73GB1H103K	CHIP C 0.010UF	K
C502			CK73FB0J106K	CHIP C 10UF	K
C601			CK73FB0J106K	CHIP C 10UF	K
C602			CC73GCH1H221J	CHIP C 220PF	J
C603			CK73GB1C104K	CHIP C 0.10UF	K
CN1			E41-2642-05	PIN ASSY	
CN100		*	E41-2985-05	FLAT CABLE CONNECTOR	
CN300			E41-2359-05	PIN ASSY	
CN301			E41-2208-05	FLAT CABLE CONNECTOR	
CN500			E41-2088-05	FLAT CABLE CONNECTOR	
CN600		*	E41-2974-05	FLAT CABLE CONNECTOR	
F100			F53-0280-05	FUSE 0.63A	
L1			L33-2454-05	CHOKE COIL 10UH	
L2			L19-0802-05	TRANSFORMER FOR CONVERTER	
L100			L33-2454-05	CHOKE COIL 10UH	
L101			L41-4792-13	SMALL FIXED INDUCTOR (4.7UH)	
L102			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L103,104			L41-3392-13	SMALL FIXED INDUCTOR (3.3UH)	
L105			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L200,201			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L203			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L300,301			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L302			L41-2205-33	SMALL FIXED INDUCTOR (22U)	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO UNIT (X35-4940-11)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
L303			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R228			RK73GH2A153D	CHIP R 15K D 1/10W	
L304-306			L92-0319-05	CHIP FERRITE		R229			RK73GH2A103D	CHIP R 10K D 1/10W	
L307			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R300-302			RK73HB1J000J	CHIP R 0.0 J 1/16W	
L308-311			L92-0319-05	CHIP FERRITE		R303,304			RK73FB2B101J	CHIP R 100 J 1/8W	
L312			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R305,306			RK73HB1J000J	CHIP R 0.0 J 1/16W	
L313			L41-8281-15	SMALL FIXED INDUCTOR (0.82U)		R307-309			RK73HB1J101J	CHIP R 100 J 1/16W	
L315			L92-0319-05	CHIP FERRITE		R310-312			RK73HB1J000J	CHIP R 0.0 J 1/16W	
L600			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R313,314			RK73HB1J101J	CHIP R 100 J 1/16W	
X300			L77-2965-05	CRYSTAL RESONATOR (12.000MHZ)		R320			RK73HB1J272J	CHIP R 2.7K J 1/16W	
R1			RK73FB2B152J	CHIP R 1.5K J 1/8W		R321			RK73HB1J100J	CHIP R 10 J 1/16W	
R2,3			RK73GB2A000J	CHIP R 0.0 J 1/10W		R322			RK73HB1J101J	CHIP R 100 J 1/16W	
R5			RK73GB2A153J	CHIP R 15K J 1/10W		R323			RK73HB1J100J	CHIP R 10 J 1/16W	
R7			RK73GB2A222J	CHIP R 2.2K J 1/10W		R324			RK73HB1J272J	CHIP R 2.7K J 1/16W	
R8			RK73GB2A220J	CHIP R 22 J 1/10W		R325-328			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R9			RK73GH2A433D	CHIP R 43K D 1/10W		R331,332			RK73HB1J101J	CHIP R 100 J 1/16W	
R10			RK73GB2A220J	CHIP R 22 J 1/10W		R336			RK73HB1J105J	CHIP R 1.0M J 1/16W	
R11			RK73GB2A515J	CHIP R 5.1M J 1/10W		R337			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R12			RK73GH2A513D	CHIP R 51K D 1/10W		R338			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R13			RK73GB2A104J	CHIP R 100K J 1/10W		R339-341			RK73HB1J330J	CHIP R 33 J 1/16W	
R14			RK73GH2A164D	CHIP R 160K D 1/10W		R342			RK73HB1J103J	CHIP R 10K J 1/16W	
R15			RK73GB2A472J	CHIP R 4.7K J 1/10W		R343			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R16			RK73GB2A105J	CHIP R 1.0M J 1/10W		R345,346			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R17			RK73GB2A512J	CHIP R 5.1K J 1/10W		R347,348			RK73HB1J330J	CHIP R 33 J 1/16W	
R18			RK73GH2A563D	CHIP R 56K D 1/10W		R351			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R19			RK73GH2A754D	CHIP R 750K D 1/10W		R353			RK73HB1J473J	CHIP R 47K J 1/16W	
R20			RK73GB2A512J	CHIP R 5.1K J 1/10W		R354,355			RK73HB1J330J	CHIP R 33 J 1/16W	
R21-24			RK73GB2A220J	CHIP R 22 J 1/10W		R359			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R25			RK73GH2A471D	CHIP R 470 D 1/10W		R360			RK73HB1J181J	CHIP R 180 J 1/16W	
R27			RK73GH2A103D	CHIP R 10K D 1/10W		R361			RK73HB1J101J	CHIP R 100 J 1/16W	
R32			RK73GB2A000J	CHIP R 0.0 J 1/10W		R362			RK73HB1J560J	CHIP R 56 J 1/16W	
R100			RK73GB2A100J	CHIP R 10 J 1/10W		R363-370			RK73HB1J101J	CHIP R 100 J 1/16W	
R101			RK73GB2A754J	CHIP R 750K J 1/10W		R372			RK73HB1J101J	CHIP R 100 J 1/16W	
R102			RK73GB2A473J	CHIP R 47K J 1/10W		R373			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R104			RK73GH2A114D	CHIP R 110K D 1/10W		R392-397			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R105			RK73GH2A103D	CHIP R 10K D 1/10W		R398			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R106			RK73GH2A164D	CHIP R 160K D 1/10W		R399			RK73HB1J101J	CHIP R 100 J 1/16W	
R107			RK73GH2A183D	CHIP R 18K D 1/10W		R400-403			RK73HB1J473J	CHIP R 47K J 1/16W	
R108-110			RK73GB2A000J	CHIP R 0.0 J 1/10W		R404			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R111			RK73GB2A222J	CHIP R 2.2K J 1/10W		R405			RK73HB1J101J	CHIP R 100 J 1/16W	
R112			RK73GB2A103J	CHIP R 10K J 1/10W		R406			RK73GH2A911D	CHIP R 910 D 1/10W	
R140			RK73GH2A103D	CHIP R 10K D 1/10W		R407			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R141			RK73GH2A513D	CHIP R 51K D 1/10W		R410			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R142,143			RK73GB2A472J	CHIP R 4.7K J 1/10W		R413			RK73HB1J101J	CHIP R 100 J 1/16W	
R201			RK73GB2A223J	CHIP R 22K J 1/10W		R414,415			RK73HB1J103J	CHIP R 10K J 1/16W	
R203			RK73GB2A473J	CHIP R 47K J 1/10W		R416			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R205			RK73GH2A392D	CHIP R 3.9K D 1/10W		R500,501			RK73GB2A333J	CHIP R 33K J 1/10W	
R206			RK73GH2A222D	CHIP R 2.2K D 1/10W		R504-507			RK73EB2E100J	CHIP R 10 J 1/4W	
R207			RK73GH2A123D	CHIP R 12K D 1/10W		R509			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R208			RK73GB2A101J	CHIP R 100 J 1/10W		R603-606			RK73EB2E101J	CHIP R 100 J 1/4W	
R209,210			RK73GB2A000J	CHIP R 0.0 J 1/10W		R607			RK73EB2E100J	CHIP R 10 J 1/4W	
R212			RK73GB2A000J	CHIP R 0.0 J 1/10W		R608			RK73EB2E121J	CHIP R 120 J 1/4W	
R216,217			RK73GB2A470J	CHIP R 47 J 1/10W		R609			RK73EB2E101J	CHIP R 100 J 1/4W	
R222,223			RK73GH2A102D	CHIP R 1.0K D 1/10W		R610			RK73GB2A101J	CHIP R 100 J 1/10W	
R224			RK73GB2A222J	CHIP R 2.2K J 1/10W		R611-614			RK73GB2A000J	CHIP R 0.0 J 1/10W	
						R615			RK73GB2A302J	CHIP R 3.0K J 1/10W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO UNIT (X35-4940-11)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R616,617 R618 R619,620 R621 R622			RK73GB2A000J RK73GB2A512J RK73GB2A000J RK73GB2A103J RK73GB2A000J	CHIP R 0.0 J 1/10W CHIP R 5.1K J 1/10W CHIP R 0.0 J 1/10W CHIP R 10K J 1/10W CHIP R 0.0 J 1/10W	
R623 R624-627 R629-634 R635 R636-638			RK73GB2A303J RK73GB2A681J RK73GB2A681J RK73FB2B132J RK73GB2A000J	CHIP R 30K J 1/10W CHIP R 680 J 1/10W CHIP R 680 J 1/10W CHIP R 1.3K J 1/8W CHIP R 0.0 J 1/10W	
R643,644 R645 VR200			RK73GB2A473J RK73GB2A822J R32-0350-05	CHIP R 47K J 1/10W CHIP R 8.2K J 1/10W SEMI FIXED VARIABLE RESIS (10K)	
D1 D2 D3,4 D5 D6			UDZS5.6B AVRM16120M6AB 1SS355 UDZS5.6B MA2S784-F	ZENER DIODE VARISTOR DIODE ZENER DIODE DIODE	
D7 D8,9 D100 D101-103 D306,307			UDZS5.6B DA204U EP05Q06 EP05Q04 AVRM16270MAAB	ZENER DIODE DIODE DIODE DIODE VARISTOR	
D500-503 D504 D605-608 D609 D610,611			UDZS6.8B DA204U AVRM16120M6AB AVRM16180M6AB AVRM16120M6AB	ZENER DIODE DIODE VARISTOR VARISTOR VARISTOR	
IC1 IC100 IC101 IC102 IC200			OZ964ISN-C-SN TC7WH123FU-F 74AHC1G04GW LT1947-PBF TA75W558FU-F	ANALOGUE IC MOS-IC MOS-IC ANALOGUE IC ANALOGUE IC	
IC300 IC301 IC302 IC303 IC304		*	S-1112B25MCG MST7988LA-ALF 74LVC3G34DP AT25F2048-6Z1 74AHC1G04GW	ANALOGUE IC MOS-IC MOS-IC ROM IC MOS-IC	
Q1 Q2,3 Q4 Q5 Q140			2SC4081 SI5504DC-E3 2SC4081 DTC114YUA 2SC4081	TRANSISTOR DUAL FET TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
Q141 Q202 Q203 Q205 Q300			2SA1576A 2SC4097 2SA1577 UMZ1N 2SA1576A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q301 Q302,303 Q304 Q500 Q501			2SC4081 DTC114YUA DTA123JUA DTA143ZUA DTC143ZUA	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q502			DTA143ZUA	DIGITAL TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q503 Q504 Q600 Q601			DTC143ZUA DTC114YUA 2SA1576A 2SC4081	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	
DVD UNIT (X37-1120-06) IN DVD MECHA.					
C3 C4 C5-7 C8 C11			CK73HB1A104K CC73HCH1H471J CK73HB1E103K CC73HCH1H471J CK73HB1E103K	CHIP C 0.10UF K CHIP C 470PF J CHIP C 0.010UF K CHIP C 470PF J CHIP C 0.010UF K	
C14 C15 C16 C17 C18			CK73GB0J106M CK73HB1A104K CK73GB0J106M CK73GB0J475K CK73FB0J226M	CHIP C 10UF M CHIP C 0.10UF K CHIP C 10UF M CHIP C 4.7UF K CHIP C 22UF M	
C20 C50,51 C54 C59,60 C62			CC73HCH1H102J C93-1228-05 C93-1228-05 C93-1228-05 C93-1228-05	CHIP C 1000PF J CHIP C 1UF M CHIP C 1UF M CHIP C 1UF M CHIP C 1UF M	
C63 C72 C73 C100-102 C103			CK73FB0J226M CK73HB1A104K CK73GB0J106M CK73HB1A104K C93-1228-05	CHIP C 22UF M CHIP C 0.10UF K CHIP C 10UF M CHIP C 0.10UF K CHIP C 1UF M	
C104 C105 C106,107 C108 C109			CK73HB1A104K C93-1228-05 CK73HB1A104K C93-1228-05 CK73HB1A104K	CHIP C 0.10UF K CHIP C 1UF M CHIP C 0.10UF K CHIP C 1UF M CHIP C 0.10UF K	
C110 C111 C112,113 C114 C115			C93-1228-05 CK73HB1C333K CK73HB1A104K CK73GB1H562K CK73HB1C183K	CHIP C 1UF M CHIP C 0.033UF K CHIP C 0.10UF K CHIP C 5600PF K CHIP C 0.018UF K	
C117 C118 C119 C120,121 C122,123			CK73HB1A104K CK73HB0J105K C93-1228-05 CK73HB1A104K CK73GB0J106M	CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 1UF M CHIP C 0.10UF K CHIP C 10UF M	
C126-129 C130-133 C134 C135,136 C137,138			CK73HB1A104K CC73HCH1H151J CC73HCH1H102J C93-1228-05 CK73HB0J105K	CHIP C 0.10UF K CHIP C 150PF J CHIP C 1000PF J CHIP C 1UF M CHIP C 1.0UF K	
C139,140 C142 C143,144 C145-149 C151,152			C93-1228-05 C93-1228-05 CC73HCH1H100D CK73HB1A104K C93-1228-05	CHIP C 1UF M CHIP C 1UF M CHIP C 10PF D CHIP C 0.10UF K CHIP C 1UF M	
C153,154 C158 C162 C164-169 C200-203			CK73HB1A104K CK73HB1A104K CK73HB1A104K CK73GB0J106M CK73GB0J106M	CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 10UF M CHIP C 10UF M	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

102 X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

DVD UNIT (X37-1120-06) IN DVD MECHA.

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C207,208			CK73HB1A104K	CHIP C 0.10UF K		C491			CC73HCH1H102J	CHIP C 1000PF J	
C220-223			CK73HB0J105K	CHIP C 1.0UF K		C492			CK73HB1E103K	CHIP C 0.010UF K	
C224			CK73HB1E103K	CHIP C 0.010UF K		C493			CC73HCH1H151J	CHIP C 150PF J	
C226			CK73FB0J226M	CHIP C 22UF M		C494			CC73HCH1H471J	CHIP C 470PF J	
C229,230			CK73HB1E103K	CHIP C 0.010UF K		C495			CC73HCH1H102J	CHIP C 1000PF J	
C231			CC73HCH1H102J	CHIP C 1000PF J		C496			CK73HB1E103K	CHIP C 0.010UF K	
C250			CC73HCH1H102J	CHIP C 1000PF J		C497,498			CK73FB0J226M	CHIP C 22UF M	
C251,252			CC73HCH1H221J	CHIP C 220PF J		C504,505			CK73HB1H472K	CHIP C 4700PF K	
C253			CC73HCH1H102J	CHIP C 1000PF J		C506,507			CC73HCH1H102J	CHIP C 1000PF J	
C254,255			CC73HCH1H221J	CHIP C 220PF J		C510			CC73HCH1H102J	CHIP C 1000PF J	
C256			CK73HB1A104K	CHIP C 0.10UF K		C511			CK73GB0J106M	CHIP C 10UF M	
C261,262			CC73HCH1H331J	CHIP C 330PF J		C512			CK73HB0J105K	CHIP C 1.0UF K	
C263			CK73HB0J105K	CHIP C 1.0UF K		C513-515			CK73HB1A104K	CHIP C 0.10UF K	
C265			CK73GB1A105K	CHIP C 1.0UF K		C516			CK73HB1C333K	CHIP C 0.033UF K	
C266			CK73HB1C333K	CHIP C 0.033UF K		C517			CK73HB1E103K	CHIP C 0.010UF K	
C267			CK73FB0J226M	CHIP C 22UF M		C518,519			CC73HCH1H470J	CHIP C 47PF J	
C270			CK73HB0J105K	CHIP C 1.0UF K		C520			CC73HCH1H102J	CHIP C 1000PF J	
C271			CC73HCH1H102J	CHIP C 1000PF J		C521			CK73HB0J105K	CHIP C 1.0UF K	
C272			CK73HB0J105K	CHIP C 1.0UF K		C522			CC73HCH1H151J	CHIP C 150PF J	
C300,301			CC73HCH1H102J	CHIP C 1000PF J		C523			CC73HCH1H471J	CHIP C 470PF J	
C302			CK73GB0J106M	CHIP C 10UF M		C524			CC73HCH1H102J	CHIP C 1000PF J	
C304-306			CK73GB0J106M	CHIP C 10UF M		C525			CK73HB1E103K	CHIP C 0.010UF K	
C350,351			CC73HCH1H102J	CHIP C 1000PF J		C526			CC73HCH1H151J	CHIP C 150PF J	
C434			CK73GB0J106M	CHIP C 10UF M		C527			CC73HCH1H471J	CHIP C 470PF J	
C435			CK73HB1E103K	CHIP C 0.010UF K		C528			CC73HCH1H102J	CHIP C 1000PF J	
C441			CK73HB1A104K	CHIP C 0.10UF K		C529			CK73HB1E103K	CHIP C 0.010UF K	
C442-445			CK73FB0J226M	CHIP C 22UF M		C530			CK73HB0J105K	CHIP C 1.0UF K	
C446			CK73HB1A104K	CHIP C 0.10UF K		CN1			E41-2594-05	FLAT CABLE CONNECTOR	
C448,449			C93-1228-05	CHIP C 1UF M		CN3			E41-2596-05	FLAT CABLE CONNECTOR	
C450			CK73HB1A104K	CHIP C 0.10UF K		CN6			E41-2603-05	FLAT CABLE CONNECTOR	
C452			C93-1228-05	CHIP C 1UF M		CN10			E41-2602-05	FLAT CABLE CONNECTOR	
C454,455			CK73HB1A104K	CHIP C 0.10UF K		L1			L92-0365-05	CHIP FERRITE	
C456-458			CK73HB1H682K	CHIP C 6800PF K		L2-4			L92-0612-05	CHIP FERRITE	
C461			CK73HB1H472K	CHIP C 4700PF K		L5,6			L92-0611-05	CHIP FERRITE	
C462			CK73HB1E103K	CHIP C 0.010UF K		L7,8			L92-0612-05	CHIP FERRITE	
C464			CK73HB0J105K	CHIP C 1.0UF K		L10			L33-2281-05	SMALL FIXED INDUCTOR	
C466			CK73HB1A104K	CHIP C 0.10UF K		L11			L33-2280-05	SMALL FIXED INDUCTOR	
C467			CC73HCH1H121J	CHIP C 120PF J		L12-14			L92-0365-05	CHIP FERRITE	
C468,469			CK73HB1A104K	CHIP C 0.10UF K		L15			L92-0612-05	CHIP FERRITE	
C470			CK73HB1E103K	CHIP C 0.010UF K		L20			L92-0617-05	CHIP FERRITE	
C473			CK73HB1A104K	CHIP C 0.10UF K		L21			L92-0612-05	CHIP FERRITE	
C474			CC73HCH1H102J	CHIP C 1000PF J		L22			L92-0838-05	CHIP FERRITE	
C476			CC73HCH1H101J	CHIP C 100PF J		X1			L77-2924-05	CRYSTAL RESONATOR (27MHZ,30PPM)	
C477-479			CK73FB0J226M	CHIP C 22UF M		CP1-9			RK74HB1J470J	CHIP-COM 47 J 1/16W	
C480			CK73HB1A104K	CHIP C 0.10UF K		CP36,37			RK74HB1J103J	CHIP-COM 10K J 1/16W	
C481			CC73HCH1H151J	CHIP C 150PF J		CP44,45			RK74HB1J330J	CHIP-COM 33 J 1/16W	
C482			CC73HCH1H471J	CHIP C 470PF J		CP54-56			RK74HB1J330J	CHIP-COM 33 J 1/16W	
C483			CC73HCH1H102J	CHIP C 1000PF J		CP57			RK74HB1J820J	CHIP-COM 82 J 1/16W	
C484			CK73HB1E103K	CHIP C 0.010UF K		CP58			RK74HB1J330J	CHIP-COM 33 J 1/16W	
C485			CC73HCH1H151J	CHIP C 150PF J		CP59-68			RK74HB1J103J	CHIP-COM 10K J 1/16W	
C486			CC73HCH1H471J	CHIP C 470PF J		CP69			RK74HB1J220J	CHIP-COM 22 J 1/16W	
C487			CC73HCH1H102J	CHIP C 1000PF J		CP70-73			RK74HB1J103J	CHIP-COM 10K J 1/16W	
C488			CK73HB1E103K	CHIP C 0.010UF K		R1-4			RK73HB1J103J	CHIP R 10K J 1/16W	
C489			CC73HCH1H151J	CHIP C 150PF J							
C490			CC73HCH1H471J	CHIP C 470PF J							

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

DVD UNIT (X37-1120-06) IN DVD MECHA.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R5,6 R10 R16 R17 R19			RK73HH1J123D RK73HB1J163J RK73HB1J103J RK73HB1J271J RK73HB1J301J	CHIP R 12K D 1/16W CHIP R 16K J 1/16W CHIP R 10K J 1/16W CHIP R 270 J 1/16W CHIP R 300 J 1/16W	
R21,22 R24 R79 R80 R81			RK73HH1J103D RK73HB1J4R7J RK73HB1J102J RK73HB1J220J RK73HB1J470J	CHIP R 10K D 1/16W CHIP R 4.7 J 1/16W CHIP R 1.0K J 1/16W CHIP R 22 J 1/16W CHIP R 47 J 1/16W	
R84,85 R86 R87 R89 R90			RK73HB1J202J RK73HB1J105J RK73HB1J102J RK73HH1J303D RK73HB1J223J	CHIP R 2.0K J 1/16W CHIP R 1.0M J 1/16W CHIP R 1.0K J 1/16W CHIP R 30K D 1/16W CHIP R 22K J 1/16W	
R91 R92 R94 R111 R112,113			RK73HB1J470J RK73HH1J123D RK73HH1J512D RK73HB1J220J RK73HB1J101J	CHIP R 47 J 1/16W CHIP R 12K D 1/16W CHIP R 5.1K D 1/16W CHIP R 22 J 1/16W CHIP R 100 J 1/16W	
R116 R119 R121 R122 R131			RK73HB1J103J RK73HB1J103J RK73HB1J182J RK73HB1J472J RK73HB1J220J	CHIP R 10K J 1/16W CHIP R 10K J 1/16W CHIP R 1.8K J 1/16W CHIP R 4.7K J 1/16W CHIP R 22 J 1/16W	
R150,151 R152,153 R154,155 R156,157 R158,159			RK73HB1J100J RK73HB1J471J RK73HB1J751J RK73HB1J560J RK73HB1J2R2J	CHIP R 10 J 1/16W CHIP R 470 J 1/16W CHIP R 750 J 1/16W CHIP R 56 J 1/16W CHIP R 2.2 J 1/16W	
R162,163 R164,165 R200-203 R204-207 R208			RK73HB1J104J RK73HH1J101D RK73HH1J201D RK73HH1J151D RK73HB1J4R7J	CHIP R 100K J 1/16W CHIP R 100 D 1/16W CHIP R 200 D 1/16W CHIP R 150 D 1/16W CHIP R 4.7 J 1/16W	
R251 R254 R255 R256 R257			RK73HB1J1R0J RK73HH1J912D RK73HH1J752D RK73HH1J331D RK73HH1J912D	CHIP R 1.0 J 1/16W CHIP R 9.1K D 1/16W CHIP R 7.5K D 1/16W CHIP R 330 D 1/16W CHIP R 9.1K D 1/16W	
R258 R259 R260 R261 R262			RK73HH1J752D RK73HH1J331D RK73HH1J912D RK73HH1J752D RK73HH1J331D	CHIP R 7.5K D 1/16W CHIP R 330 D 1/16W CHIP R 9.1K D 1/16W CHIP R 7.5K D 1/16W CHIP R 330 D 1/16W	
R263 R264 R265 R266,267 R269			RK73HH1J912D RK73HH1J752D RK73HH1J331D RK73HH1J101D RK73HB1J100J	CHIP R 9.1K D 1/16W CHIP R 7.5K D 1/16W CHIP R 330 D 1/16W CHIP R 100 D 1/16W CHIP R 10 J 1/16W	
R275,276 R300,301 R302,303 R304 R305			RK73HB1J472J RK73HH1J472D RK73HH1J183D RK73HH1J202D RK73HB1J163J	CHIP R 4.7K J 1/16W CHIP R 4.7K D 1/16W CHIP R 18K D 1/16W CHIP R 2.0K D 1/16W CHIP R 16K J 1/16W	
Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R350,351 R400-402 R409 R410,411 R450			RK73HB1J4R7J RK73HB1J470J RK73HB1J470J RK73HB1J102J RK73HB1J202J	CHIP R 4.7 J 1/16W CHIP R 47 J 1/16W CHIP R 47 J 1/16W CHIP R 1.0K J 1/16W CHIP R 2.0K J 1/16W	
R458 R464,465 R467 R468-470 R471			RK73HB1J220J RK73HH1J101D RK73HB1J470J RK73HB1J103J RK73HB1J820J	CHIP R 22 J 1/16W CHIP R 100 D 1/16W CHIP R 47 J 1/16W CHIP R 10K J 1/16W CHIP R 82 J 1/16W	
R472,473 R475 R476 R477 R478			RK73HB1J330J R92-3350-05 R92-5112-05 RK73GH2A111D RK73HH1J472D	CHIP R 33 J 1/16W CHIP R 2.2 F 1/10W CHIP R 4.7 F 1/10W CHIP R 110 D 1/10W CHIP R 4.7K D 1/16W	
R480 R481 R482-484 R485 R486,487			RK73HH1J202D RK73HH1J203D RK73HB1J820J RK73HB1J102J RK73HB1J103J	CHIP R 2.0K D 1/16W CHIP R 20K D 1/16W CHIP R 82 J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W	
R489 R491-493 R496,497 R498 R501			RK73HB1J220J RK73HB1J751J RK73HB1J102J RK73HB1J101J RK73HH1J132D	CHIP R 22 J 1/16W CHIP R 750 J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 1.3K D 1/16W	
R502 R503 R504 R505 R507			RK73HH1J333D RK73HH1J203D RK73HB1J242J RK73HB1J821J RK73HB1J103J	CHIP R 33K D 1/16W CHIP R 20K D 1/16W CHIP R 2.4K J 1/16W CHIP R 820 J 1/16W CHIP R 10K J 1/16W	
R508 R509 R510 R511 R512,513			RK73HB1J225J RK73HB1J102J RK73HB1J103J RK73HB1J473J RK73HB1J103J	CHIP R 2.2M J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W CHIP R 47K J 1/16W CHIP R 10K J 1/16W	
R514-517 R518-522 R523,524 R525 R530			RK73HB1J220J RK73HB1J103J RK73HB1J4R7J RK73HB1J000J RK73HB1J000J	CHIP R 22 J 1/16W CHIP R 10K J 1/16W CHIP R 4.7 J 1/16W CHIP R 0.0 J 1/16W CHIP R 0.0 J 1/16W	
R531 R532 R533 R535-538 R539			RK73HB1J471J RK73HB1J472J RK73HH1J683D RK73HH1J821D RK73HB1J4R7J	CHIP R 470 J 1/16W CHIP R 4.7K J 1/16W CHIP R 68K D 1/16W CHIP R 820 D 1/16W CHIP R 4.7 J 1/16W	
R541 R544-559 R560 R561,562 R563			RK73HH1J122D RK73HB1J2R2J RK73HB1J000J RK73HH1J682D RK73HH1J122D	CHIP R 1.2K D 1/16W CHIP R 2.2 J 1/16W CHIP R 0.0 J 1/16W CHIP R 6.8K D 1/16W CHIP R 1.2K D 1/16W	
R564 R574-576 R583,584 R588 R591			RK73HB1J4R7J RK73HB1J000J RK73HH1J391D R92-5112-05 RK73HB1J820J	CHIP R 4.7 J 1/16W CHIP R 0.0 J 1/16W CHIP R 390 D 1/16W CHIP R 4.7 F 1/10W CHIP R 82 J 1/16W	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△Indicates safety critical components.

PARTS LIST

DVD UNIT (X37-1120-06) IN DVD MECHA.

Ref. No.	Add	New	Parts No.	Description	Destination
R599,600 R601-604 R605,606 R614 R615			RK73HB1J103J RK73HB1J102J RK73HB1J103J RK73HH1J102D RK73HB1J1R0J	CHIP R 10K J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W CHIP R 1.0K D 1/16W CHIP R 1.0 J 1/16W	
R617 R619 R620 R621 R622			RK73HB1J000J RK73HB1J513J RK73HB1J333J RK73HB1J103J RK73HB1J333J	CHIP R 0.0 J 1/16W CHIP R 51K J 1/16W CHIP R 33K J 1/16W CHIP R 10K J 1/16W CHIP R 33K J 1/16W	
R623 R624-626 R627 R628,629 R630,631			RK73HB1J220J RK73HH1J332D RK73HB1J103J R92-5147-05 R92-5146-05	CHIP R 22 J 1/16W CHIP R 3.3K D 1/16W CHIP R 10K J 1/16W CHIP R 1.2 D 1/4W CHIP R 1.0 D 1/4W	
R632 R633 R634 R636 R638-645			RK73HH1J270D RK73HB1J472J RK73HB1J103J RK73HB1J220J RK73HB1J2R2J	CHIP R 27 D 1/16W CHIP R 4.7K J 1/16W CHIP R 10K J 1/16W CHIP R 22 J 1/16W CHIP R 2.2 J 1/16W	
S1 S2			S68-0911-15 S68-0914-05	PUSH SWITCH PUSH SWITCH	
D5,6 D7 IC1 IC5 IC9			015AZ5.1-F(Y) 1SS402-F MN2DS0016AAUB - -	ZENER DIODE DIODE MOS-IC ROM IC ROM IC	
IC10 IC12 IC15 IC21 IC39			AN41250A-VB MM1671XNRE AK4396VF - NJU7042	ANALOGUE IC ANALOGUE IC MOS-IC MOS-IC ANALOGUE IC	
IC42 IC49 IC50,51 IC54 IC55		*	TC74VHC273FT TC7SG04FU-F NJM4580V-ZB HY139S12816F7 TC7WH32FU-F	MOS-IC MOS-IC ANALOGUE IC DRAM IC MOS-IC	
IC56 IC57 IC60 Q1-4 Q10,11			HD74LV1GW57AE NJM2573V-ZB - DTA143XE 2SC4617	MOS-IC ANALOGUE IC ANALOGUE IC DIGITAL TRANSISTOR TRANSISTOR	
Q12,13 Q14,15 Q20,21 Q24 Q25			2SB1709 2SK3019 2SK3019 SSM3J15FU-F DTA143XE	TRANSISTOR FET FET FET DIGITAL TRANSISTOR	
Q27 Q28,29			DTA143ZE 2SA1774	DIGITAL TRANSISTOR TRANSISTOR	
DIGITAL I/O UNIT (X88-2030-11)					
C100 C102-105 C106 C107-110			CC73HCH1H101J CK73HB1A104K CK73FB0J106K CK73HB1A104K	CHIP C 100PF J CHIP C 0.10UF K CHIP C 10UF K CHIP C 0.10UF K	
C112 C113 C114-124 C126-130 C133,134			CK73EB0J226K C92-1983-05 CK73HB1A104K CK73HB1A104K CK73FB0J106K	CHIP C 22UF K ELECTRO 100UF 4WV CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 10UF K	
C135 C138,139 C142 C143 C144			CK73HB1A104K CC73HCH1H100D CE32BN0J221M CK73HB0J105K CK73HB1A104K	CHIP C 0.10UF K CHIP C 10PF D CHIP EL 220UF 6.3WV CHIP C 1.0UF K CHIP C 0.10UF K	
C149 C153 C154 C200 C201			CK73HB1A104K CK73HB0J105K CK73HB1A104K CC73HCH1H220J CK73HB1A104K	CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 0.10UF K CHIP C 22PF J CHIP C 0.10UF K	
C202 C217-226 C227,228 C233-236 C244			CC73HCH1H220J CK73HB1A104K CK73FB0J106K CK73HB1A104K CK73FB0J106K	CHIP C 22PF J CHIP C 0.10UF K CHIP C 10UF K CHIP C 0.10UF K CHIP C 10UF K	
C264 C275 C309-312 C318 C322			CK73HB1A104K CK73FB0J106K CK73HB1A104K CK73HB1A104K CK73HB1A104K	CHIP C 0.10UF K CHIP C 10UF K CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 0.10UF K	
C329 C331 C332 C336 C337,338			CC73HCH1H270J CK73FB0J106K CK73HB1A104K CK73FB0J106K CK73HB1H152K	CHIP C 27PF J CHIP C 10UF K CHIP C 0.10UF K CHIP C 10UF K CHIP C 1500PF K	
C340,341 C342 C456 C460 C468			CC73HCH1H331J CK73HB1E103K CK73EB1A106K CK73HB1A104K CK73FB0J106K	CHIP C 330PF J CHIP C 0.010UF K CHIP C 10UF K CHIP C 0.10UF K CHIP C 10UF K	
C482 C601,602 C700-713 C715 C900			CK73GB1H222K CC73HCH1H470J CK73HB1H222K CK73HB1A104K CK73HB1H222K	CHIP C 2200PF K CHIP C 47PF J CHIP C 2200PF K CHIP C 0.10UF K CHIP C 2200PF K	
C901,902 C903,904 C905 C906 C907,908			CK73HB1H102K CK73HB1H222K CK73HB1H102K CK73FB0J106K CK73HB1A104K	CHIP C 1000PF K CHIP C 2200PF K CHIP C 1000PF K CHIP C 10UF K CHIP C 0.10UF K	
C909 C910 C912			CK73FB0J106K CK73HB1C473K CK73HB1A104K	CHIP C 10UF K CHIP C 0.047UF K CHIP C 0.10UF K	
CN101 CN210 CN328			E41-2839-05 E41-2195-05 E41-2237-05	PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR	
L901,902 X100 X202			L92-0321-05 L77-2941-05 L77-2917-15	CHIP FERRITE CRYSTAL RESONATOR (14.7456MHZ) CRYSTAL RESONATOR (32.768KHZ)	

E2 : DNX7220 (Europe)
K1 : DDX712 K2 : DNX7120 (North America)
X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)
M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

The IC5,9,21 and IC60 in the DVD unit (X37-1120-06) are not replaceable components. When these ICs are defective, replace the whole DVD mechanism assembly (X92-6180-01).

PARTS LIST

DIGITAL I/O UNIT (X88-2030-11)

Ref. No.	Added	New	Parts No.	Description	Destination
CP104-109			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP117-127			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP128-134			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP135-138			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP139-142			RK74HB1J330J	CHIP-COM 33 J 1/16W	
CP143-146			RK74HB1J680J	CHIP-COM 68 J 1/16W	
CP147-154			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP155-160			RK74HB1J220J	CHIP-COM 22 J 1/16W	
R1,2			RK73HB1J473J	CHIP R 47K J 1/16W	
R9,10			RK73HB1J220J	CHIP R 22 J 1/16W	
R12			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R13			RK73HB1J473J	CHIP R 47K J 1/16W	
R14			RK73HB1J561J	CHIP R 560 J 1/16W	
R15,16			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R17,18			RK73HB1J153J	CHIP R 15K J 1/16W	
R24			RK73HB1J220J	CHIP R 22 J 1/16W	
R29			RK73HB1J473J	CHIP R 47K J 1/16W	
R31			RK73HB1J473J	CHIP R 47K J 1/16W	
R33			RK73HB1J473J	CHIP R 47K J 1/16W	
R34-37			RK73FB2B330J	CHIP R 33 J 1/8W	
R104			RK73HB1J330J	CHIP R 33 J 1/16W	
R105			RK73HB1J103J	CHIP R 10K J 1/16W	
R107-109			RK73HB1J103J	CHIP R 10K J 1/16W	
R112			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R115			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R116			RK73HB1J103J	CHIP R 10K J 1/16W	
R118			RK73HB1J103J	CHIP R 10K J 1/16W	
R121			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R123			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R124			RK73HB1J473J	CHIP R 47K J 1/16W	
R126			RK73HB1J473J	CHIP R 47K J 1/16W	
R129			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R130,131			RK73HB1J220J	CHIP R 22 J 1/16W	
R134			RK73HB1J220J	CHIP R 22 J 1/16W	
R139			RK73HB1J105J	CHIP R 1.0M J 1/16W	
R140			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R141,142			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R145,146			RK73HB1J153J	CHIP R 15K J 1/16W	
R147			RK73HB1J220J	CHIP R 22 J 1/16W	
R148			RK73HB1J473J	CHIP R 47K J 1/16W	
R149			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R150			RK73HB1J220J	CHIP R 22 J 1/16W	
R153			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R157-159			RK73HB1J220J	CHIP R 22 J 1/16W	
R163			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	
R202			RK73HB1J106J	CHIP R 10M J 1/16W	
R203			RK73HB1J334J	CHIP R 330K J 1/16W	
R219-221			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R223			RK73HB1J473J	CHIP R 47K 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	
R265-270			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R273			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	
R297			RK73HB1J103J	CHIP R 10K J 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	
R320-322			RK73HB1J103J	CHIP R 10K J 1/16W	
R324,325			RK73HB1J123J	CHIP R 12K J 1/16W	
R326,327			RK73HB1J752J	CHIP R 7.5K J 1/16W	
R328,329			RK73HB1J392J	CHIP R 3.9K J 1/16W	
R332,333			RK73HB1J151J	CHIP R 150 J 1/16W	
R438			RK73HB1J103J	CHIP R 10K J 1/16W	
R440			RK73HB1J103J	CHIP R 10K J 1/16W	
R481,482			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R485-487			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R506,507			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R522			RK73HB1J680J	CHIP R 68 J 1/16W	
R523			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	
R604,605			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R701			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R703			RK73GB2A106J	CHIP R 10M J 1/10W	
R705			RK73HB1J331J	CHIP R 330 J 1/16W	
R707,708			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R710			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R713-715			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R903			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R910-912			RK73HB1J473J	CHIP R 47K J 1/16W	
R917			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R918			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R920			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R923			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R926			RK73GB2A106J	CHIP R 10M J 1/10W	
R927,928			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R929			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R930			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R931			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R934			RK73HB1J103J	CHIP R 10K J 1/16W	
D102,103			AVRL1613R3FTA	VARISTOR	
IC100			MIC2005-08YM6	MOS-IC	
IC104		*	74HC1G86GW	MOS-IC	
IC105			SI-3018KM	ANALOGUE IC	
IC106			-	MICROPROCESSOR IC	

E2 : DNX7220 (Europe)

K1 : DDX712 K2 : DNX7120 (North America)

106 X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)

M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

The IC106 in the Digital I/O unit (X88-2030-11) are not replaceable components. When this IC are defective, replace the whole Digital I/O unit (X88-2030-11).

PARTS LIST

DIGITAL I/O UNIT (X88-2030-11)

Ref. No.	Add	New	Parts No.	Description	Destination
IC108 IC200 IC202,203 IC207 IC211		*	74AHC1G04GW TC7WHU04FU-F MT48LC16M16P75 341S2094 GL256N10TF0A3	MOS-IC MOS-IC DRAM IC MICROPROCESSOR IC ROM IC	
IC302 IC305 IC901 IC902 IC903			BH7240AKV NJM2100V-ZB PCM1754DB TAR5S50-F TC7WH08FK-F	MOS-IC ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC	
DAUGHTER UNIT (X89-3062-71)					
C1 C2 C3 C4 C5			CC73GCH1H180J CC73GCH1H070D CC73GCH1H150J CC73GCH1H180J CC73GCH1H390J	CHIP C 18PF J CHIP C 7.0PF D CHIP C 15PF J CHIP C 18PF J CHIP C 39PF J	E2 E2 E2 E2 E2
C6 C7 C8 C10-12 C13			CC73GCH1H020C CC73GCH1H120J CK73FB1C105K CC73GCH1H102J CC73GCH1H221J	CHIP C 2.0PF C CHIP C 12PF J CHIP C 1.0UF K CHIP C 1000PF J CHIP C 220PF J	E2 E2 E2 E2 E2
C14 C15,16 C17			CC73GCH1H030C CC73GCH1H560J CC73GCH1H102J	CHIP C 3.0PF C CHIP C 56PF J CHIP C 1000PF J	E2 E2 E2
CN2 W1 W2		*	E41-3009-05 E30-6804-05 E30-6805-05	PIN ASSY CORD WITH PLUG (JASO) CORD WITH PLUG (PIN)	E2 E2 E2
L1 L2 L3 L4,5 L6		*	L41-2705-33 L41-1588-18 L41-1805-33 L41-1588-18 L19-0825-05	SMALL FIXED INDUCTOR (27U) SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR (18U) SMALL FIXED INDUCTOR BALUN TRANSFORMER	E2 E2 E2 E2 E2
L8		*	L41-1888-18	SMALL FIXED INDUCTOR (0.18U)	E2
R1 R3 R4 R5 R6			RK73GB2A104J RK73GB2A562J RK73GB2A332J RK73GB2A331J RK73GB2A391J	CHIP R 100K J 1/10W CHIP R 5.6K J 1/10W CHIP R 3.3K J 1/10W CHIP R 330 J 1/10W CHIP R 390 J 1/10W	E2 E2 E2 E2 E2
R7,8 R10 R11 R12 R13			RK73GB2A330J RK73GB2A431J RK73GB2A270J RK73GB2A431J RK73GB2A151J	CHIP R 33 J 1/10W CHIP R 430 J 1/10W CHIP R 27 J 1/10W CHIP R 430 J 1/10W CHIP R 150 J 1/10W	E2 E2 E2 E2 E2
R14 R15 R17			RK73GB2A431J RK73GB2A270J RK73GB2A431J	CHIP R 430 J 1/10W CHIP R 27 J 1/10W CHIP R 430 J 1/10W	E2 E2 E2
D1 Q1			IMSA-6801-E 2SC3357-A	SURGE ABSORBER TRANSISTOR	E2 E2
DVD MECHANISM ASSY (X92-6180-01) (DVS-8561V)					
1 2 3 4	1A 2B 1A 3A	*	A10-5331-61 A10-5332-51 A10-5333-31 A10-5460-02	CHASSIS CHASSIS CHASSIS CHASSIS	

Ref. No.	Add	New	Parts No.	Description	Destination
7 8 9 10 12	1B 1B 1B 1B 2B		D10-4918-22 D10-4919-22 D10-4920-02 D10-4921-02 D10-4922-12	ARM ARM LEVER LEVER SLIDER	
13 14 15 25 27	2A 2B 2B 2B 2A		D10-7011-02 D10-4924-13 D10-4925-12 D10-4973-04 D10-4945-04	ARM ARM ARM SLIDER ASSY LEVER	
28 31 32 33 34	2B 2B 2B 2B 2B		D12-0639-02 D13-2402-04 D13-2403-04 D13-2404-04 D13-2405-04	CAM GEAR GEAR GEAR GEAR	
35 36 40 41 42	2B 2B 2A 2A 2A		D13-2406-04 D13-2407-04 D13-2413-04 D13-2415-04 D13-2416-04	GEAR GEAR GEAR GEAR GEAR	
43 53 54 55	1B 1B 2A 2A		D14-1013-14 D21-2487-24 D39-0275-05 D39-0276-05	ROLLER SHAFT DAMPER DAMPER	
60	3A		F09-2825-23	SHEET	
65 66 67 68 69	2B 1B 2A 2B 1B		G01-3298-04 G01-3299-04 G01-3300-14 G01-4601-04 G01-4602-04	EXTENSION SPRING EXTENSION SPRING TORSION COIL SPRING EXTENSION SPRING EXTENSION SPRING	
70 74 75	1B 2B 1B		G01-4604-04 G01-4609-14 G02-1564-03	TORSION COIL SPRING TORSION COIL SPRING FLAT SPRING	
79 80	2A 3B		J22-0475-21 J22-0636-01	MOUNTING HARDWARE MOUNTING HARDWARE	
A B C D	1A 3B 1B 3A		N09-6382-05 N09-6408-15 N09-6426-15 N09-6104-05	MACHINE SCREW (M1.7X2.0) TAPTITE SCREW (1.7X4 P-TITE) MACHINE SCREW (LOAD ARM SCREW) MACHINE SCREW (2X10 S-TITE)	
93	2A		T99-0471-05	MAGNET	
96 98 VM1	1B 2A 2A		X94-2080-00 X94-2060-00 X94-2070-00	ROLLER ASSY TRAVERSE ASSY (PICKUP, SPINDLE) MOTOR ASSY (LOADING)	

E2 : DNX7220 (Europe)
K1 : DDX712 K2 : DNX7120 (North America)
X2 : DDX7032 X3 : DNX7320 (Australia) R2 : DDX7032 (Latin America)
M2 : DDX7032 M4 : DDX7032M M5 : DNX7320 (Other Areas)

△ Indicates safety critical components.

SPECIFICATIONS (K/R TYPE)

Monitor section

Picture Size	6.95 inches (diagonal) wide
.....	156.2 mm (W) x 82.4 mm (H)
Display System.....	Transparent TN LCD panel
Drive System	TFT active matrix system
Number of Pixels	336,960 (480H x 234V x RGB)
Effective Pixels	99.99 %
Pixel Arrangement	RGB striped arrangement
Back Lighting	Cold Cathode Fluorescent Tube

DVD player section

D/A Converter.....	24 bit
Audio Decoder Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2/ MPEG4 (DivX)
Wow & Flutter	Below Measurable Limit
Frequency Response
Sampling frequency; 96 kHz.....	20 – 44,000 Hz
Sampling frequency; 48 kHz.....	20 – 22,000 Hz
Sampling frequency; 44.1 kHz.....	20 – 20,000 Hz
Total Harmonic Distortion.....	0.008 % (1 kHz)
S/N Ratio (dB).....	98 dB (DVD-Video 96 kHz)
Dynamic Range	98 dB (DVD-Video 96 kHz)
Disc Format	DVD-Video/ VIDEO-CD/ CD-DA
Sampling Frequency	44.1/ 48/ 96 kHz
Quantifying Bit Number	16/ 20/ 24 bit

USB interface section

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

FM tuner section

Frequency Range (200 kHz)	87.9 MHz – 107.9 MHz
Usable Sensitivity (S/N : 30 dB)	9.3 dBf (0.8 μ V/ 75 Ω)
Quieting Sensitivity (S/N : 50 dB)	15.2 dBf (1.6 μ V/ 75 Ω)
Frequency Response (\pm 3.0 dB).....	30 Hz – 15 kHz
S/N Ratio (dB).....	70 dB (MONO)
Selectivity (\pm 400 kHz)	\geq 80 dB
Stereo Separation.....	40 dB (1 kHz)

AM tuner section

Frequency Range (10 kHz)	530 kHz – 1700 kHz
Usable Sensitivity	28 dB μ

Video section

Color System of External Video Input	NTSC
External Video Input Level (mini jack).....	1 Vp-p/ 75 Ω
External Audio Max Input Level (mini jack)	2 V/ 25 k Ω

Video Output Level (RCA jacks)	1 Vp-p/ 75 Ω
Audio Output Level (RCA jacks).....	1.2 V/ 10 k Ω
Analog RGB input (DDX712/DDX7032 only) ..	0.7 Vp-p/ 75 Ω

Audio section

Maximum Power (Front & Rear)	50 W x 4
Full Bandwidth Power (Front & Rear)	
(4 Ω , 14.4 V, 1 % THD)	22 W x 4
Preout Level (V)	2 V/ 10 k Ω
Preout Impedance	\leq 600 Ω
Speaker Impedance	4 – 8 Ω
Tone action	
Bass	100 Hz \pm 8 dB
Middle	1 kHz \pm 8 dB
Treble	10 kHz \pm 8 dB

External SW

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

Navigation section (DNX7120 only)

Receiver.....	High-sensitivity GPS receiver
Reception Frequency	1575.42 MHz (C/A code)
Acquisition Times	
Cold	< 38 seconds
Factory Reset.....	< 45 seconds
(On average for a stationary receiver with a clear view of the sky)	
Accuracy	
Position	< 10 meters typical
Velocity.....	0.05 m/sec. RMS
Position Method	GPS
Antenna	External GPS antenna

General

Operating voltage.....	14.4 V (11 – 16 V allowable)
Current Consumption	15 A
Dimensions (W x H x D).....	182 x 112 x 163 mm
.....	7-3/16 x 4-7/16 x 6-7/16 inch
Operational Temperature Range	-10 $^{\circ}$ C – +60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C – +85 $^{\circ}$ C
Weight (DNX7120)	2.5 kg (5.5 lbs)
Weight (DDX712/DDX7032).....	2.45 kg (5.4 lbs)

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

US and foreign patents licensed from Dolby Laboratories. Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

SPECIFICATIONS (M/X TYPE)

Monitor section

Picture Size	6.95 inches (diagonal) wide
.....	156.2 mm (W) x 82.4 mm (H)
Display System.....	Transparent TN LCD panel
Drive System	TFT active matrix system
Number of Pixels	336,960 (480H x 234V x RGB)
Effective Pixels	99.99 %
Pixel Arrangement	RGB striped arrangement
Back Lighting	Cold Cathode Fluorescent Tube

DVD player section

D/A Converter.....	24 bit
Audio Decoder	
.....	Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2/ MPEG4 (DivX)
Wow & Flutter	Below Measurable Limit
Frequency Response	
Sampling frequency; 96 kHz.....	20 – 44,000 Hz
Sampling frequency; 48 kHz.....	20 – 22,000 Hz
Sampling frequency; 44.1 kHz.....	20 – 20,000 Hz
Total Harmonic Distortion.....	0.008 % (1 kHz)
S/N Ratio (dB).....	98 dB (DVD-Video 96 kHz)
Dynamic Range	98 dB (DVD-Video 96 kHz)
Disc Format	DVD-Video/ VIDEO-CD/ CD-DA
Sampling Frequency	44.1/ 48/ 96 kHz
Quantifying Bit Number	16/ 20/ 24 bit

USB interface section

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

FM tuner section

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

AM tuner section

Frequency Range	
AM (10 kHz)	530 kHz – 1700 kHz
LW (9 kHz).....	153 kHz – 281 kHz
MW (9 kHz)	531 kHz – 1611 kHz
Usable Sensitivity	
AM.....	28 dB μ
LW.....	45 μ V
MW.....	25 μ V

Video section

Color System of External Video Input	NTSC/ PAL
External Video Input Level (mini jack).....	1 Vp-p/ 75 Ω
External Audio Max Input Level (mini jack)	2 V/ 25 k Ω
Video Output Level (RCA jacks)	1 Vp-p/ 75 Ω
Audio Output Level (RCA jacks)	1.2 V/ 10 k Ω
Analog RGB input (DDX7032/DDX7032M only)	
.....	0.7 Vp-p/ 75 Ω

Audio section

Maximum Power (Front & Rear)	50 W x 4
Full Bandwidth Power (Front & Rear)	
(at Less than 1 % THD)	22 W x 4
Preout Level (V)	2 V/ 10 k Ω
Preout Impedance	\leq 600 Ω
Speaker Impedance	4 – 8 Ω
Tone action	
Bass.....	100 Hz \pm 8 dB
Middle	1 kHz \pm 8 dB
Treble	10 kHz \pm 8 dB

Navigation section (DNX7320 only)

Receiver.....	High-sensitivity GPS receiver
Reception Frequency	1575.42 MHz (C/A code)
Acquisition Times	
Cold	< 38 seconds
Factory Reset.....	< 45 seconds
(On average for a stationary receiver with a clear view of the sky)	
Accuracy	
Position	< 10 meters typical
Velocity.....	0.05 m/sec. RMS
Position Method	GPS
Antenna	External GPS antenna

General

Operating voltage.....	14.4 V (11 – 16 V allowable)
Current Consumption	15 A
Dimensions (W x H x D).....	182 x 112 x 163 mm
Operational Temperature Range	-10 $^{\circ}$ C – +60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C – +85 $^{\circ}$ C
Weight (DNX7320)	2.5 kg
Weight (DDX7032/DDX7032M).....	2.45 kg

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

US and foreign patents licensed from Dolby Laboratories. Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

SPECIFICATIONS (E TYPE)

Monitor section

Picture Size 6.95 inches (diagonal) wide
..... 156.2 mm (W) x 82.4 mm (H)
Display System..... Transparent TN LCD panel
Drive System TFT active matrix system
Number of Pixels 336,960 (480H x 234V x RGB)
Effective Pixels 99.99 %
Pixel Arrangement RGB striped arrangement
Back Lighting Cold Cathode Fluorescent Tube

DVD player section

D/A Converter.....24 bit
Audio Decoder
..... Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC
Video Decoder..... MPEG1/ MPEG2/ MPEG4 (DivX)
Wow & Flutter Below Measurable Limit
Frequency Response
Sampling frequency; 96 kHz.....20 – 44,000 Hz
Sampling frequency; 48 kHz.....20 – 22,000 Hz
Sampling frequency; 44.1 kHz.....20 – 20,000 Hz
Total Harmonic Distortion..... 0.008 % (1 kHz)
S/N Ratio (dB)..... 98 dB (DVD-Video 96 kHz)
Dynamic Range 98 dB (DVD-Video 96 kHz)
Disc Format DVD-Video/ VIDEO-CD/ CD-DA
Sampling Frequency 44.1/ 48/ 96 kHz
Quantifying Bit Number 16/ 20/ 24 bit

USB interface section

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

FM tuner section

Frequency Range (50 kHz) 87.5 MHz – 108.0 MHz
Usable Sensitivity (S/N : 26 dB) 0.8 μ V/ 75 Ω
Quieting Sensitivity (S/N : 46 dB) 1.6 μ V/ 75 Ω
Frequency Response (\pm 3.0 dB) 30 Hz – 15 kHz
S/N Ratio (dB)..... 65 dB (MONO)
Selectivity (\pm 400 kHz) \geq 80 dB
Stereo Separation..... 35 dB (1 kHz)

AM tuner section

Frequency Range (9 kHz)
LW.....153 kHz – 281 kHz
MW.....531 kHz – 1611 kHz
Usable Sensitivity
LW.....35 μ V
MW.....50 μ V

DANGER:

Please do not look at the laser beam directly during repair or operation check.

Video section

Color System of External Video InputNTSC/ PAL
External Video Input Level (RCA jack) 1 Vp-p/ 75 Ω
External Audio Max Input Level (RCA jack).....2 V/ 25 k Ω
Video Output Level (RCA jacks) 1 Vp-p/ 75 Ω
Audio Output Level (RCA jacks).....1.2 V/ 10 k Ω

Audio section

Maximum Power (Front & Rear)50 W x 4
Full Bandwidth Power (Front & Rear)
(PWR DIN45324, +B=14.4v).....30 W x 4
Preout Level (V)2 V/ 10 k Ω
Preout Impedance \leq 600 Ω
Speaker Impedance 4 – 8 Ω
Tone action
Bass 100 Hz \pm 8 dB
Middle 1 kHz \pm 8 dB
Treble 10 kHz \pm 8 dB

External SW

Maximum Power Supply Current 500 mA

Navigation section

Receiver..... High-sensitivity GPS receiver
Reception Frequency 1575.42 MHz (C/A code)
Acquisition Times
Cold < 38 seconds
Factory Reset..... < 45 seconds
(On average for a stationary receiver with a clear view of the sky)
Accuracy
Position < 10 meters typical
Velocity..... 0.05 m/sec. RMS
Position Method GPS
Antenna External GPS antenna

General

Operating voltage..... 14.4 V (11 – 16 V allowable)
Current Consumption 15 A
Dimensions (W x H x D) 182 x 112 x 163 mm
Operational Temperature Range -10 $^{\circ}$ C – +60 $^{\circ}$ C
Storage Temperature Range -20 $^{\circ}$ C – +85 $^{\circ}$ C
Weight 2.5 kg

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

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